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For

WELL NAME: SOGEPET AQUIT KASKATTAMA PROV. #1

PROGNOSIS AND PROGRAM

Sogepet Aquit Kaskattama Prov. #1

Location:

Approximately: Latitude 57° 02' 45" - Longitude 90° 04' 00"

57. 04. 18 90. 10. 29

Hole Sizes:

Surface Hole: 8-3/4" to 400'±
Main Hole: 4-3/4" to 2000'±
Rathole: 2-15/16 to T.D.

Elevations:

Ground: 20' (Estimated)
K.B.: 30' (Estimated)

PROGNOSIS:

	Alternate 1		Alternate 2	
	Depth	Subsea	Depth	Subsea
Spud - drift			30'	0'
Cretaceous			400'	-370'
Devonian Bituminous shales Carbonates - lime-stones in part fossiliferous - some cavernous. Sandstones and conglomerates in basal part of Devonian.	30'	0'		
Silurian Dolomitic limestone in part sandy. Coral reef horizon. (60' est.) Sandy dolomitic limestone.	550'	-520'	2050'	-2020'
Ordovician Very fine, micro-crypto crystalline dolomites.	1450'	-1420'	2950'	-2920'
Sandstones at base (20' est.)	2980'	-2950'	4480'	-4450'
Basement	3000'	-2970'	4500'	-4470'
TOTAL DEPTH	3020'	-2990'	4520'	-4490'

PROGRAM:

1. Time Drilling:

Record time drilling carefully from surface to T.D. Record in five foot intervals for fast drilling, three minutes a foot or less, and record every foot for slow drilling, three minutes a foot or more.

2. Samples:

Manitoba Mines Branch:	1 set of five foot samples from surface to T.D.
Aquitaine, France:	2 sets of ten foot samples from surface to T.D., in bags.
Banff:	catch and wash 2 sets of five foot samples to be put in vials. 1 set canned samples. See addendum for special instructions.

3. Mud Program:

0'-400'±	Surface Hole - gel water, slurry.
400'-T.D.	Prepare Imco - RD - 111 (Ligno-sulphonate) system, while standing cement.

Note: Detailed mud program prepared by IMC Drilling Mud and copies attached to program.

4. Surface Hole:

Drill 8-3/4" hole to 100' below glacial drift. The minimum depth of casing shall be 300'. Run 7" casing to 1-5' off bottom and set casing collar 1 foot below ground level. Cement +2% Calcium Chloride. Centre casing and wait on cement eight hours. Cut off and head up.

5. Drilling Out:

Drill out after 24 hours using reduced weight and RPM's while drilling out.

6. Coring: Christensen

Cut a 20 foot core at least every 100'. Additional coring will be done on the basis of formation changes. Core immediately below formation changes. Core continuously after running intermediate casing.

7. Testing: Halliburton

Equipment will be provided to test in main hole and rathole. Test shows in porous horizons as indicated from drilling times, samples and cores. Catch several samples of each type of fluid recovered and retain for analysis. Catch a sample of gas from each gas test.

7. Testing: con't.

Shut-in times should be of sufficient duration to allow pressure build-ups in low permeable formations. Suggest minimum times of one hour for initial shut-in, two hours for valve open and two hours for final shut-in. Fluid to surface, large gas blows or hole conditions may dictate shorter flow periods and shut-in times.

8. Intermediate Casing: 2000+

Run 3-1/2" flush joint casing, cement to surface using caliper log plus 20% excess to calculated cement and volumes. Land casing in slips immediately with shoe on bottom and drill out after 24 hours. Use reduced weight and RPM's while drilling out shoe.

9. Logging:

Run #1 Prior to surface casing.
Electric Log, Gamma Ray Neutron and Density, make a trial run on all logs and adjust scales from information gained on trial run. Run logs on scale most suited to majority of hole and repeat logs on a suitable scale over minority hole.
Repeat any log that is of doubtful quality.
Micro Log, run from T.D. to surface.
Sonic Log, run if available.
Run all logs on 2", 5", and 10" scale.

Run #2 Prior to intermediate casing.
Generally as Run #1.

Run #3 At T.D., as Run #1 and Run #2.

Note: Catch 3 mud samples prior to pulling out to log. Make sure all headings are complete and all mud properties recorded on log.

10. Velocity Survey: (Conventional)

A velocity survey will be run prior to intermediate casing and at total depth. A survey may be required prior to surface casing.

September 14, 1966

A.J. Brinker

PROPOSED MUD PROGRAM

BANFF OIL CO. LTD.

KASKATTAMA # 1

SURFACE HOLE - 400' - 6⅝" or 7" CASING:

Drill with water and/or Imco-Gel Slurry as required to obtain satisfactory samples. Should loss of circulation occur use Imco-Fyber and Sawdust for filler.

PROPERTIES

Weight lb/gal:	9.0 - 9.2
Viscosity, sec/qt:	26 - 35

INTERMEDIATE HOLE - 1500' to 2000' OF 4 3/4", SET 3½" PIPE:

Mud up rig surface volume while waiting on cement with Imco-RD-111 system at 1 lb/bbl RD-111 and ½ lb/bbl Caustic Soda. Lower Fluid Loss to 4-5 cc with CMC. Pretreat to drill cement with Bicarbonate of Soda. Carry Viscosity only as high as required to clean hole. Initially do not add Bentonite to system. Keep filter cake at a minimum by controlling fluid loss as required by amount of solids in the system.

PROPERTIES

Weight lb/gal:	9.0 or less
Viscosity, sec/qt:	As required
Fluid loss, cc API:	4 or less
Gel Strengths:	Low

CORE HOLE, 2 15/16" TO ± 3800':

When core point is reached, have solids as low as possible. This may require strong dilution, but due to close tolerances of coring technique, solids must be at a minimum. Fluid loss should be below 4 cc to minimize filter cake build up. Suggest addition of 6-8 lb/bbl Imco R.D.-111 at this time to be prepared for any possible anhydrite or salt contamination. Mud must be in condition at all times to resist a climb in viscosity or fluid loss. Anhydrite should be treated out, if not massive in order to control fluid loss as low as possible. This will also enable gels strengths to be kept low. Viscosity only as

- continued -

required to clean hole. Tolerances involved will present an extreme problem if loss of circulation is encountered. If losses are slight, suggest additions of fine mica. Serious losses should be cemented and redrilled.

BANFF OIL LTD.

Schwab

ADDENDUM TO WELL PROGRAM - AQUITAINE SOGEPET KASKATTAMA

Additional data has been obtained on the seismic interpretations. The following comments on stratigraphy, coring and testing and sample requirements are forwarded to complete the preliminary well program:-

STRATIGRAPHY:

The study completed by Banff Geophysicists indicates that the sedimentary section overlying the basement is in the order of 2300' to 3200'. Based on interval velocities, the 2300' of sediments is sub-divided into 300' of Cretaceous or Devonian shales with some carbonates, 600' of Silurian or Devonian carbonates with some shales, and 1400' of Ordovician carbonates. The Sogepet interpretation indicates the possibility of about 4600' of Paleozoic and younger sediments overlying the basement with the following breakdown: 50' of overburden, 600' of Cretaceous or Devonian shales and some carbonates, 1100' of Devonian or Silurian carbonates and shales (projected*), 1200' of mainly Silurian carbonates, and 1600' of Ordovician carbonates. Following are lithological descriptions and comments on marker horizons:-

Overburden or Cretaceous:

The overburden described at core holes by McCabe west of York Factory consists of gravels, clay and sandstones. The Cretaceous in the James Bay Lowland consists of grey, brown, black clays, lignite and white quartz sand.

Silurian and Devonian:

If a thin sedimentary section is present at this locality, Devonian beds will likely be absent. Distinctive units in the

* In the Sogepet interpretation, the interval thickness at shot point 5. below about 600' is projected on the basis of those interpreted at shot point 11., whereas in the Banff interpretation, the intervals below 900' are projected from shot point 11.

.../2

Devonian are as follows (top to bottom): bituminous shales (Long Island Fm.); organic fossiliferous limestones (Upper Abitibi Fm.); gypsum beds and brecciated limestones (Middle Abitibi Fm.); arkosic continental sandstones (Sextant Fm.).

Silurian beds will be present. The major lithological units are as follows (top to bottom): red and green shales and siltstones, with some dolomitic limestones and dolomites (Kenogami Fm.); grey and buff fossiliferous limestones and coral reefs (Pagwa Fm.); buff, fossiliferous dolomitic limestones (Severn River Fm.). The Pagwa Formation is a key unit. It has been observed in outcrops on the Severn River (Johnson) and so should be present in the Kaskattama well. It could be the first distinctive unit encountered in drilling.

Ordovician:

The Ordovician sequence consists mainly of a micro-crystalline, grey and buff limestone, dolomitic limestones or dolomites. As such, it is not easy to recognize distinctive units. However, the basal sandstones of the Portage Chute Formation should be obvious and important to identify. The descriptions by McCabe of the Ordovician at the Kennco and Selco core holes may be helpful in recognition of the Ordovician lithology, if not in identification of specific units. Discussions with McCabe of the Manitoba Department of Mines will be helpful.

Close attention should be given to fossiliferous zones and lithological data that will assist in age determination.

CORING AND TESTING PROCEDURE:

The coring program as discussed previously, is satisfactory. Within the limits imposed by hole conditions, a 20' core should be cut after drilling 100' or after encountering a lithological change.

.../3

Consideration should be given to continuous coring after the carbonates of the Silurian-Ordovician have been contacted. Cores should be sent to Banff Oil Company, Calgary, as soon as possible.

Drillstem testing should be carried out at the discretion of the drilling supervisor. Formation evaluation by testing, though important, is not of prime importance in the Kaskattama program. If the time factor is at all critical, drillstem testing should be witheld. Further, it is quite possible that numerous thin porous zones will be encountered so that it may be necessary to cover several zones of porosity in one test. The significant units that appear probable for evaluation at this time are the Silurian Pagwa reef and the Portage Chute sandstones.

SAMPLE REQUIREMENTS:

Manitoba Mines Branch:	1 set of five foot samples from surface to T.D.
Aquitaine, France:	2 sets of ten foot samples from surface to T.D., in bags.
Banff:	catch and wash 2 sets of five foot samples to be put in vials. 1 set canned samples. See addendum for special instructions.

Equipment:

Canning Machine
#2 Cans and Lids

Procedure:

1. Collect cuttings from shale marker every 30'.

2. Rinse off excess mud.

.../4

3. Fill can with cuttings to within ½" of top.

4. Add clean water to within ½" of top i.e. to cover cuttings.

5. Seal can (this is a 15 second operation).

6. Label can with well location and depth.

7. Place the can, factory-sealed end up, in a carton.

Storage:

The canned cuttings should not be allowed to freeze as this will likely burst the cans.

Special Instructions:

1. Water added to cans should be free of hydrocarbon contamination (e.g. diesel fuel, grease etc.).

2. Any hydrocarbon mud additive should be noted and recorded by depth.

Samples should be caught over cored intervals at all times.

DLB/rd
8.16.1966

MUD AND ADDITIVE SUMMARY

Page 1

SOGEPET AQUIT KASKATTAMA PROV. #1
Well Name

Date	Tour	Depth	Mud wt.	Viscosity	Water Loss	pH	Filter Cake 32nds inch	Gel. Strength Sacks	CAUSTIC LBS.	BICARB LBS.	BARYTES SACKS	SAWDUST SACKS	Additives
S[illegible].16	2							10					
Sept.17	1							48		200			
Sept.17	3	93		53				10	100				
Sept.18	1	106		38				10	150				
Sept.18	2	141	8.6	70				45	50			10	Fiber 1 sack
Sept.20	3	304	8.6	38				3	150			6	
Sept.21	1	330	8.7	45								2	
Sept.24	2	398	7.8	38	15			38	300			18	
Sept.25			Mud too foamy and frothing to measure										
Sept.26	2	624	8.6	32	Drill and core with salt water; no additives								
Sept.29	3	1073						35	100			10	Mix mud to regain circulation
Sept.30	1	1081	8.4	70				25	150			15	Lost complete circulation at 1078
Sept.30	2	1083	8.4	90				10				10	Flowing water at 1081
Oct. 1	2	1083	9.0	40				25	150	Salt Gel (Sacks) 20		15	Attempted to kill water flow - flow resumed after trip
Oct. 4	1	1174	9.3	70				20	250	5	20	15	Kill well to run plug
Oct. 15	3	1645			Kill well to log			20	200	30	60	20	400 #RD111. flow resumed after drilling out Plug #3.
Oct. 22	2	1732			Kill well to run csg. 20				50	17	60	20	
Oct. 24	3	1732						10	150	5	30	10	Kill well to recement casing
Nov. 9	1	2238			Coring with water								
			Cored with water from 1732 - 2877										
Dec. 10	1	2877	9.0	42	9.8	11.0	2		150	25			50# RD111 Mixed mud to log and kill water flow estimate at 1/2 bbl. per hour.
Dec. 12	3	2880	10.0	40	9.0	10.0		4			7		Prepared to run plugs

BANFF OIL LTD.

WELLSITE GEOLOGICAL AND ENGINEERING REPORT

WELL NAME: SOGEPET AQUIT KASKATTAMA PROV. #1

GROUND ELEVATION: 15.3' KB ELEVATION: 30.0 above High Water Line

SPUDDED: 9:30 A.M. - Sept. 16, 1966 RIG RELEASED: Dec. 17, 1966

TOTAL DEPTH, DRILLER: 2880' TOTAL DEPTH, LOG: 2877'

STATUS: Suspended

DRILLING CONTRACTOR: Big Indian Drilling Co. Ltd. Rig #14

Banff Oil Ltd.

RUNNING AND CEMENTING

Surface Casing
~~Intermediate Casing~~ O.D. 7" .....
~~Production Casing~~
~~Liner~~

GENERAL

Well SOGEPET AQUIT KASKATTAMA PROV. #1 Location _____ Date September 22, 1966

K.B. Elevation _____ K.B.-Csg. Flge. 14' Total Depth (Driller) 330'

Hole Size	8-3/4"			Casing in Hole	9-5/8"	
Depth	330'			Depth Set	49 K.B.	

Mud: Type Bentonite Wt. 8.6 Visc. 40 W.L. -

B.O.P.'s -

RUNNING

Power Tongs Rig Tongs Torque: Max. _____ Nom. _____ Min. _____

Time pipe started 7:30 Time on Bottom 9:30 Time Circulated 60 mins.

Fill-up Points every joint Btm. by Csg. 330' Ft. up from K.B. 12.00'

Remarks 3' of overhole drilled to accomodate threaded casinghead body.

CEMENTING

Cement Co. Big Indian Operator A. Whitteran Time on Location Stand by Unit

Types & Quantities of Cement 65 sacks (30% Excess) Hi-Early Cement - Neat Ht. to be Cemented _____

Water ahead 5 bbls. Mix Times: Start 10:45 Finish 10:55 Slurry Wt. 14.5#

Calc. Disp. 12.2 bbls. Est. Disp. Time 10 Mins. Start 11:05 Finish 11:15

Max. Pumping Press. 200 Bump. Press 1000# Bumped by Cement Unit No. Times Bumped 1

Cement Returns: Yes/~~No~~ Remarks Approximately 1.5 Barrels returns

LANDING

Time Landed _____ Date _____ Init. Wt. of Cem. String (less blocks) _____

Wt. Landed in Slips _____ Make of Bowl _____ Nom. Size _____ Series _____

Slip & Seal Assembly _____ Remarks _____

Agent of Operator R. T. Russell

Banff Oil Ltd.

CASING INFORMATION

Surface Casing ~~Intermediate~~ ~~Production~~ ~~Liner~~ O.D. 7"

Well SOGEPET AQUIT KASKATTAMA PROV. #1 Location ________ Date September 22, 1966

Jts. on Locat.	Ft. on Locat.	Csg. Wt.	Gr.	Rge.	Thd.	T.&C.	Make	Jts. Run	Depth Landed	Ft. Run in Well
15	463.87	23#	J55	2	8RD	S	Mann.	10	327'	309.81

Shoe: Make Larkin Type Guide Length	1.32
Collar: Make Larkin Type Float Length	1.41
Landing Joint (when used) Length	29.43
Overall Length of Casing String	341.97
Feet up from K.B. (Subtract)	14.68
Setting Depth: By Driller 327.29 By Tally	327.29
Shoe Joint: Overall 34.25 (Subtract)	34.25
Float Collar Landed: By Driller 293.04 By Tally	293.04

CENTRALIZERS	SCRATCHERS
Make Larkin	Make
Number 1	Number
Positions 5' up from shoe	Positions

No. of Collars Welded 2

Remarks: Crooked hole at 50' - 60' Broke piece out of centralizer.

Agent of Operator R. T. Russell

Banff Oil Ltd.

ENGINEERING PIPE TALLY SHEET

WELL NAME SOGEPET AQUIT KASKATTAMA PROV. #1 DATE September 22, 1966

31	52*								
31	05								
30	95								
30	85								
31	61								
29	94								
31	10								
31	25								
30	21								
31	33								
29	43**								
31	40*								
31	44*								
39	54*								
31	25*								
463	87								

TUBING/CASING

O.D. 7"

Wt. 23#

Grade J55

Range 2

Thread 8RD

Collar STOC

Make MANN.

SUMMARY		
Col. 1	1.41	
2	29.43	
3	431.97	
4	14.68	
5	427.25	
Tally	34.25	
Fwd.	993.04	
Fwd.		
Fwd.		
	463	87
	154	06
	309	81

Tallied by: 1 R. Russel and 2 R. Whitteran

15 Tot. Jts. on location

5 Jts. out (Incl. Ldg. Jt.)

10 Jts. perm. in hole

No. of Collar Welded 2

Remarks: Crooked hole at 50' - 60' broke pin

Remarks:
* Shoe Joint
** Log Joint

Agent of Operator R. T. Russell

Banff Oil Ltd.
RUNNING AND CEMENTING

Fwd.

Surface Casing Fwd.
Intermediate Casing O.D. 3-1/2
Production Casing Fwd.
Liner

GENERAL

Well SOGEPET AQUIT KASKATTAMA PROV. #1 Location _____ Date October 22 and 23, 1966

K.B. Elevation 29.5 K.B. Csg. Flge. 15.8 Total Depth (Driller) 1732.00

Hole Size	8-3/4	4-3/4		Casing in Hole	7" OD	
Depth	330	1732		Depth Set	326	

Mud: Type gel & barytes Wt. 9.3 Visc. 43 W.L. _____

B.O.P.'s Hydril and Schaffer blind rams and pipe rams

RUNNING

Power Tongs yes Torque: Max. _____ Nom. _____ Min. _____

Time pipe started 9:15 P.M. Oct. 22, 1966 Time on Bottom 11:00 P.M. Oct. 23, 1966 Time Circulated nil

Fill-up Points none Btm. by Csg. _____ Ft. up from K.B. 5.60'

Remarks Pipe threads corroded and hard to make-up.

CEMENTING

Cement Co. Big Indian Operator A. Whitteron Time on Location _____

Types & Quantities of Cement 52 sacks Canada and 96 sacks Inland + 2% $CaCl_2$.

Ht. to be Cemented to surface

Water ahead 1 bbls. Mix Times: Start 4:20 A.M. Finish 4:45 A.M. Slurry Wt. 13.5 to 15.5#

Calc. Disp. 14-3/4 bbls. Est. Disp. Time 15 Mins. Start 4:45 A.M. October 24, 1966 Finish 5:00 A.M. Oct. 24, 1966

Max. Pumping Press. 200 Bump. Press _____ Bumped by _____ No. Times Bumped _____

Cement Returns: Yes/~~No~~ Remarks see attached

LANDING

Time Landed 1:00 A.M. Date October 25, 1966 Init. Wt. of Cem. String (less blocks) 14000#

Wt. Landed in Slips 6000# Make of Bowl Rockwell Nom. Size _____ Series 400

Slip & Seal Assembly _____ Remarks _____

Set slips in, out casing off and set seals in.

Agent of Operator Fred Halkow

RUNNING AND CEMENTING

3-1/2"

SOGEPET AQUIT KASKATTAMA PROV. #1

CEMENTING:

Remarks: No returns while mixing cement and displacing same. Pump pressure gradually built up to 200# at end of displacement. Displaced cement to approximately 60' off bottom with salt water. At 2:00 P.M. October 24, 1966, well started to flow, water through annulus. Shut hydril and kill-line in and mixed mud and lost circulation material. Pumped 45 bbls. of 9.7# mud through annulus and killed well at 11:00 P.M., October 24, 1966. Mixed and pumped 100 sacks cement and 1% $CaCl_2$ at 11:15 P.M. No pressure build-up while pumping mud or cement. Cement slurry averaged 15# to 15.5#. When hydril opened cement slurry dropped to undetermined depth well remained dead. Checked annulus on November 3, 1966 - no pressure, well dead.

nil

K.B. 5.60'

CEMENTING

Cement Co.

Types & Quantities of Cement

to surface

Water ahead 1 bbls. Slurry Wt. 13.5 to

Calc. Disp. 14-3/4 bbls. Act. Disp. Time Finish 5:00 A.M.

Max. Pumping Press 200 Bump Plug Plug Bumped

Cement Returns: Yes/No Remarks

LANDING

Time Landed 1:00 A.M. Date October 25, 1966 14000

Wt. Landed in Slips 60000# Make of Bowl Type 400

Slip & Seal Assembly

Set slips in, cut casing off and

Banff Oil Ltd.

CASING INFORMATION

~~Surface Casing~~
Intermediate Casing O.D. 3-1/2
~~Production Casing~~
~~Liner~~

Well SOGEPET AQUIT KASKATTAMA PROV. #1 Location _____ Date October 22 and 23, 1965

Jts. on Locat.	Ft. on Locat.	Csg. Wt.	Gr.	Rge.	Thd.	T.&C.	Make	Jts. Run	Depth Landed	Ft. Run in Well
200	2000.00				NX		Garry	170	1731.50	1700.00
	3-1/2" NX by 4-1/2" 8 rd. Swage and Collar									.98
2	33.34	9.5		1	8rd	S		2	28	33.24

Shoe: Make J.K. Smit - Connors Type Full Opening Length .20

Collar: Make nil Type _____ Length _____

Landing Joint (when used) Length _____

Overall Length of Casing String 1734.42

Feet up from K.B. (Subtract) 5.60

Setting Depth: By Driller 1731.50 By Tally 1728.82

Shoe Joint: Overall _____ (Subtract) _____

Float Collar Landed: By Driller _____ By Tally _____

CENTRALIZERS

Make nil

Number _____

Positions _____

SCRATCHERS

Make nil

Number _____

Positions _____

No. of Collars Welded shoe, 5 bottom joints of 3-1/2" and swage and 2 joints of 4-1/2"

Remarks: Cut-off joint and landing joint - 19.50.

Agent of Operator Fred Halkow

Banff Oil Ltd.

ENGINEERING PIPE TALLY SHEET

WELL NAME SOGEPET AQUIT KASKATTAMA PROV. #1 DATE October 22 and 23, 19

170	joints of	3-1/2	each one	exactly	10.00		1700.	00
1	joint	4-1/2"		-	16	90		
1	joint	4-1/2"		-	16	34		

TUBING/CASING

O.D. 3-1/2

Wt.

Grade

Range

Thread NX

Collar

Make Garry

SUMMARY		
Col. 1		
2		
3		
4		
5		
Fwd.		
Fwd.		
Fwd.		

Tallied by:

200 Tot. Jts. on location

30 Jts. out (Incl. Ldg. Jt.)

170 Jts. perm. in hole

Remarks:

Agent of Operator Fred Halkow

Banff Oil Ltd. PLUG-BACK AND ABANDONMENT REPORT

Well SOGEPET AQUIT KASKATTAMA PROV. #1 Location

Hole Size	4-3/4	2-15/16		
Depth	1174			

Casing in Hole	Size	Set at	Top of Cement
Surface Casing	7"	327	
Production String	3-1/2	1729	

K.B. Elev. 300'

F.T.D. 2880

Fluid in Hole mud

Plug Back String

Service Company Big Indian

Cons. Bd. Officer

	Plug #1	Plug #2	Plug #3	Plug #4	Plug #5	Plug #6
Date	Oct.4/66	Oct.5/66	Oct.5/66	Dec.13/66	Dec.13/66	
Interval — Top Bottom	1078	1078	1078	1830 1880	1680 1780	
Formation — Name Depth	Pagwa	Pagwa	Pagwa	Ordovician	Silurian	
Calipered Hole Size (Average)	4-3/4	4-3/4	4-3/4	2-15/16	2-15/16	-3
Type of Cement	Portland Canada	Portland Canada	Portland Canada	Portland Canada	Portland Canada	
Number of Sacks	40	45	30	6	12	
Additives	3% $CaCl_2$	3-1/2% $CaCl_2$	3-1/2% $CaCl_2$, 25sks Sawdust	Neat		
Bbls. of Water Ahead	1	2	1-1/2	nil	nil	
Displacement — Bbls. Water Bbls. Mud	5	5	4-1/2	4	2	
Slurry Weight	12.5#	11.0-12.0	14.5#	15#	15#	
Mixing Times — Start Finish	8:30 AM 8:40	2:25 AM 2:45 AM	6:30 PM 6:55 PM			
Displacing Times — Start Finish	8:42 8:45 AM	2:48 AM 2:55 AM	6:55 PM 7:00 PM	3:35 PM	7:15PM	
Felt Plug Time	10:30 PM	4:00 PM	2:30 PM Oct.6/66	No Feel		
Felt Plug Depth	No Plug to 1090	No Plug to 1095	At 1040 At 2:30PM		see below	

Surface Casing Cut _____ Ft. Below Grd. Surface Plugs _____ Sacks. Plate Welded Yes/No.

CASING SALVAGE: Shot off at _____ No. of Jts. Recovered _____

Remarks Unable to get heavier slurry on Plug #1 and #2. Premixed cement in tank for Plug #3. Plug No. 5 followed pipe out of hole. Shut b.o.p.'s in. Opened b.o.p.'s and cleaned cement out to 28' K.B. after 25 hours.

Agent of Operator F. Halkow

MUD AND ADDITIVE SUMMARY

SOGEPET AQUIT KASKATTAMA PROV. #1
Well Name

Date	Tour	Depth	Mud wt.	Viscosity	Water Loss	pH	Filter Cake 32nds inch	Gel. Strength Sacks	CAUSTIC LBS.	BICARB LBS.	BARYTES SACKS	SAWDUST SACKS	Additives
Sept.16	2							10					
Sept.17	1							48		200			
Sept.17	3	93		53				10	100				
Sept.18	1	106		38				10	150				
Sept.18	2	141	8.6	70				45	50			10	Fiber 1 sack
Sept.20	3	304	8.6	38				3	150			6	
Sept.21	1	330	8.7	45								2	
Sept.24	2	398	7.8	38	15			38	300			18	
Sept.25			Mud too foamy and frothing to measure										
Sept.26	2	624	8.6	32	Drill and core with salt water; no additives								
Sept.29	3	1073						35	100			10	Mix mud to regain circulation
Sept.30	1	1081	8.4	70				25	150			15	Lost complete circulation at 1078
Sept.30	2	1083	8.4	90				10				~~10~~	~~Flowing water at 1081~~
Oct. 1	2	1083	9.0	40				25	150	Salt Gel (Sacks)	20	15	Attempted to kill water flow - flow resumed after trip
Oct. 4	1	1174	9.3	70				20	250	5	20	15	Kill well to run plug
Oct. 15	3	1645			Kill well to log			20	200	30	60	20	400 #RD111. flow resumed after drilling out Plug #3.
Oct. 22	2	1732			Kill well to run csg.			20	50	17	60	20	
Oct. 24	3	1732						10	150	5	30	10	Kill well to recement casing
Nov. 9	1	2238			Coring with water								
			Cored with water from 1732 - 2877										
Dec. 10	1	2877	9.0	42	9.8	11.0	2		150	25			50# RD111 Mixed mud to log and kill water flow
													estimate at 1/2 bbl. per hour.
Dec. 12	3	2880	10.0	40	9.0	10.0		4			7		Prepared to run plugs

CORE REPORT

Well Name SOGEPET AQUIT KASKATTAMA PROV. #1 Location

Core No.	Cored Interval	Recovery In Feet	Date Cored 1966	Formation Content	Dip	Lithological Description
1	67-72	1	Sept. 17		20°	Dolomitic Limestone
2	93-100	2	Sept. 17		"	" "
3	100-102	1-1/2	Sept. 18			" " "
4	102-106	2	Sept. 18		"	" "
5	156-169	7	Sept.19			Calcilutite and Brecciated
						Limestone
6	186-197	2	Sept. 19			" " "
7	266-270	2	Sept. 20			Brecciated Limestone
8	398-403	5	Sept. 24			Calcilutite and Anhydrous
						Limestone
9	403-417	9	Sept. 24			" " "
10	540-558	9	Sept. 25			Red and Green Silts7
11	600-624	16	Sept. 26			" " " " and Sandstone
12	716-737	20	Sept. 26	Kenogami		" " " Shales
13	831-851	20	Sept. 27	"		" " " " , minor gyp.
14	921-940	19	Sept. 28	"		" " " " " "
15	1032-1052	20	Sept. 29	"		Dolomite, minor Limestone and gyp.
16	1052-1073	20.6	Sept. 29	"	30°	Green-grey to light brown dolomite
17	1081-1083	2	Sept. 30	Pagwa		Limestone - reef grey to buff
18	1083-1097	14	Oct. 1	"		" " " " "
19	1097-1114	15	Oct. 2	"		" " " " "
20	1114-1122	7.5	Oct. 2	"		" " " " "
21	1122-1132	10	Oct. 2	"		" " " " "
22	1132-1153	21	Oct. 3	"		" " " " "
23	1153-1174	21	Oct. 3	"		" " slight argillaceous
24	1178-1183	4.5	Oct. 7	"		" " " "
25	1183-1203	20.0	Oct. 7			" " grey to cream
26	1203-1225	21.0	Oct. 8			" " "
27	1225-1246	20.0	Oct. 8			Limestone Reef - grey to buff
28	1294-1315	20.5	Oct. 9			Yellow-brown dolomite and Limestone
29	1315-1335	20.0	Oct. 10			" limestone - bioclastic
30	1335-1354	19.0	Oct. 10			Grey bioclastic limestone
31	1368-1388	19.0	Oct. 11			Grey-brown brecciated and bioclastic
						Limestone
32	1422-1436½	14.5	Oct. 12			Yellow-brown dolomite and limestone
						and anhydrite
33	1436½-1456	20.0	Oct. 12			Yellow-brown limestone, pin-point bioclastic
34	1493-1513	20.0	Oct. 13			Yellow-brown limestone, pin-point rubbly

CORE REPORT

Well Name SOCEPET AQUIT KASKATTAMA PROV. #1 Location

Core No.	Cored Interval	Recovery In Feet	Date Cored 1966	Formation Content	Dip	Lithological Description
35	1543-1563	20.0	Oct. 13			Limestone, calcarenitic, pin-point argillaceous
36	1605-1625	20.0	Oct. 14			Limestone, ~~Pin-point brecciated~~ Pin-point calcilutite
37	1625-1645	20.5	Oct. 15			Grey dolomite and brown limestone minor chert
38	1656-1674	18.0	Oct. 19			Limestone, bioclastic, pin-point argillaceous.
39	1674-1694	20.0	Oct. 20			Bioclastic Limestone and dense dolomite
40	1694-1714	20.0	Oct. 21			Bioclastic Limestone and dense banded limestone
41	1714-1732	17.5	Oct. 21			Dense Limestone and Dolomite, minor chert
42	1744-1761	15.6	Oct. 28			Limestone, bioclastic
43	1761-1781	20.0	Oct. 28			Limestone, bioclastic, and banded calcilutite
44	1781-1801	20.0	Oct. 29			Limestone, calcilutite and minor fossil fragment
45	1801-1820	19.5	Oct. 29			Limestone, calcilutite banded, slight argillaceous
46	1820-1839	19.5	Oct. 30			Calcilutite, and blue-grey argillaceous dolomite
47	1839-1859	19.7	Oct. 31			Limestone, calcilutite and calcarinate minor dolomite
48	1859-1879	19.8	Oct. 31			Cryptocrystalline dolomite and limestone
49	1879-1899	20.0	Nov. 1			" " " "
50	1899-1919	20.0	Nov. 1			Limestone and Dolomite
51	1919-1939	20.0	Nov. 2			" " "
52	1939-1959	20.0	Nov. 2			Dolomite and Anhydrite
53	1959-1979	19.7	Nov. 2			Limestone and Dolomite
54	1979-1999	20.3	Nov. 3			" "
55	1999-2019	19.5	Nov. 3			" "
56	2019-2038	18.5	Nov. 4			Calcarinatic limestone
57	2038-2057	19.0	Nov. 4			Limestone, Dolomite and Anhydrite
58	2057-2076	19.0	Nov. 5			Anhydrite and Dolomite
59	2076-2095	19.5	Nov. 5			Dolomite and Limestone, fossiliferous
60	2095-2125	27.5	Nov. 6			Limestone and Dolomite, fossiliferous
61	2125-2152	24.7	Nov. 6			Limestone, fossiliferous
62	2152-2182	9.0	Nov. 7			"
63	2182-2200	14.5	Nov. 8	Port Nelson Red Head Rapids		" , Dolomite, Anhydrite and Salt

CORE REPORT

Well Name SOGEPET AQUIT KASKATTAMA PROV. #1 Location

Core No.	Cored Interval	Recovery In Feet	Date Cored	Formation Content	Dip	Lithological Description
64	2200-2219	19.8	Nov. 8			Dolomite, Anhydrite and Salt
65	2219-2238	18.5	Nov. 9			Dolomite and Shale
66	2238-2257	17.6	Nov. 9			Shale, anhydrite and Dolomite
67	2257-2276	19.7	Nov. 10			Dolomite
68	2276-2295	19.0	Nov. 11			Dolomite, Shale, Anhydrite
69	2295-2314	19.5	Nov. 11			Dolomite
70	2314-2333	13.2	Nov. 12			Limestone, Dolomite, Shale and Anhydrite
71	2333-2349	19.7	Nov. 12	Tally Correction +1'		Dolomite and Limestone
72	2350-2369	19.6	Nov. 13			Limestone and Dolomite
73	2369-2377	7.3	Nov. 14			Shale and Anhydrite
74	2380-2399	19.0	Nov. 15	" & Churchill		Limestone, dolomite, and Anhydrite
75	2399-2419	19.5	Nov. 16	R. Group?		Limestone
76	2319-2438	19.6	Nov. 17			Limestone and Dolomite
77	2438-2458	19.7	Nov. 17	Churchill River Group ?		Dolomite and Limestone
78	2458-2477	19.4	Nov. 17	"		Limestone
79	2477-2496	19.7	Nov. 18	"		"
80	2496-2516	19.6	Nov. 18	"		"
81	2516-2536	19.7	Nov. 19	"		"
82	2536-2556	19.7	Nov. 19	"		"
83	2556-2575	19.7	Nov. 20	"		"
84	2575-2594	19.7	Nov. 21	"		"
85	2594-2614	19.7	Nov. 21	"		" and Dolomite with Salt Crystal
86	2614-2634	19.7	Nov. 22			Dolomite with salt crystals
87	2634-2653	19.6	Nov. 22			" " " and anhydrite
88	2653-2669	16.1	Nov. 23	Tally Correction +1.0'		" and Anhydrite
89	2670-2689	19.1	Nov. 23			" " Limestone
90	2689-2709	19.5	Nov. 24			Limestone, minor Chert
91	2709-2729	19.7	Nov. 24			" " "
92	2729-2748	19.5	Nov. 25			" " "
93	2748-2768	19.5	Nov. 25			" " "
94	2768-2777	0	Nov. 26			No recovery - twisted off
95	2777-2785	7.7	Dec. 4			Limestone - mottled
96	2785-2800	15.3	Dec. 5			" "
97	2800-2819	19	Dec. 6			" "
98	2819-2838	19.5	Dec. 7			" "
99	2838-2857	18.5	Dec. 8	Corrected +1		" "
100	2858-2877	19.5	Dec. 9			" "
101	2877-2880	2.8	Dec. 12			" "

BANFF OIL LTD.

SUMMARY OF WELL DATA

WELL NAME SOGEPET AQUIT KASKATTAMA PROV. #1 DATE December 17, 1966

LOCATION 57° 04' 18.487" Lat. 90° 10' 29.408" Long. CO-ORDINATES

PRODUCING HORIZON (S)

ELEVATIONS: Ground 15.3' KELLY BUSHING 30.0'

SPUD DATE Sept. 16, 1966 - 9:30 A.M. RIG RELEASE Dec. 17, 1966 - Noon

COMPLETED DRILLING, DATE: Dec. 12, 1966 8:00 AM TOTAL DEPTH: 2880 HOLE SIZE 8-3/4" to 330
4-11/16 to 1732
2-15/16 to 2880

SURFACE CASING: SIZE 7" 23# J-5 SET AT 327' K.B. CEMENT 65 sacks Hi-Early

PRODUCTION CASING: (note if Intermediate) 148 sacks + 2%CaCl
Intermediate SIZE 3-1/2" SET AT 1729 K.B. CEMENT & 100 sacks 1%CaCl

LINER: SIZE SET AT K.B. CEMENT

CEMENT PLUGS: (Abandonment, Lost Circ. or Plugback) #1 At 1078 with 40 sacks + 3% $CaCl_2$, #2 At 1078 with 45 sacks + 3-1/2%, #3 At 1078 with 30 sacks + 3-1/2% $CaCl_2$ and 2 sacks Sawdust, #4 1880-1830 with 6 sacks neat, #5 1680-1780 with 12 sacks

MUD TYPE 0-327 Gel/water; 327-624 gel/water; 624-2880 water only.

NUMBER OF TESTS nil

LOGS: (Abbreviate Type of Log)

TYPE	RUN NO	DEPTH LOGGED	DATE
Ind. E-log	1	326-1633	October 16, 1966
Sonic GR/C	1	326-1633	October 16, 1966
GRay/Neutron	1	0-1633	October 17, 1966
Temperature Log	1	0-1633	October 17, 1966
E-S	1	1729-2877	December 11, 1966
TT Caliper	1	1680-2877	December 11, 1966
Temperature Survey	2	0-2877	December 11, 1966
GR-N	2	1580-2877	December 12, 1966

CORES:

CORE NO.	INTERVAL	RECOVERY	FM.
SEE ATTACHED CORE REPORT			

REMARKS: (Type & Size of Cores, etc.) Diamond Cores No.1 to No.41, from 67 to 1732 - size 4-11/1
x 2-1/8", Diamond Cores No. 42 to 59 from 1744 to 2095 - Size 2-15/16 x 1-7/8"
" " " 60,61,62 " 2095 " 2182 - " 2-15/16 x 2-3/16"
" " " 63 to 101 " 2182 " 2880 - " 2-15/16 x 1-7/8"

DRILLING CONTRACTOR BIG INDIAN DRILLING CO. LTD. RIG NO 14
Spud - 831 by J. F. Blue and R. Russel, 831/2231 by F. Halkow

WELLSITE SUPERVISION BY: 2231-2777 by L. W. Vigrass, 2777 to 2880 by F. Halkow

BANFF OIL LTD.

GEOLOGICAL MARKER REPORT

K.B. 29.5

WELL NAME: Sogepet Aquitaine Kaskattama #1 LOCATION Manitoba Lat. 59° 04' 18.487"
Long. 90° 10' 29.409"

FORMATION / MARKER	FROM Prognosis	FROM Samples	FROM Log	Sub-Sea
QUATERNARY - "beach" Sands		Surface -23'		
DEVONIAN -				
Abitibi Formation	30'	23'		+7
SILURIAN (upper)				
Middle Kenogami Fm	550'	423'	423'	-393
Lower Kenogami Fm		936'	936'	-906
SILURIAN (middle)				
Attawapiskat Fm			1076'	-1046
Ekwan Fm			1291'	-1261
? Severn Fm		1500'	1500'	-1407
SILURIAN (lower)				
? Port Nelson Fm		1884'		-1854
ORDOVICIAN -				
CHURCHILL RIVER GRP	1450'	2191'	2191'	-2161
Palaeontological Top		(2279)		(-2249)
? Red Head Rapids Fm		2191'	2191'	-2161
? Chasm Creek Fm		2371'		-2341
? Caution Creek Fm		2493'		-2463
BAD CACHE RAPIDS GRP				
? Surprise Creek Fm		2601'		-2571
? Portage Chute Fm		2683'	2687'	-2653

REMARKS: Correlation of the Silurian Formations below the Attawapiskat are not certain.

Ordovician - Churchill River Group identified between 2279 - 2597

Bad Cache Rapids Group identified between 2838 - 2880

N.B. Remarks continued overleaf.

The Ordovican Formation tops listed on the preceding Geological Marker Report and enclosed lithological logs are primarily based on the identification of a Portage Chute fauna in the basal part of the Ordovician section, and an attempt to establish a five-fold subdivision of the Ordovician to conform to the five Ordovician Formations recognised an outcrop. However, the section from 2646 to TD appears to be very similar to the Stoney Mountain/Red River section of the Williston Basin. If this correlation is confirmed by deeper drilling, the formational tops maybe revised as follows.

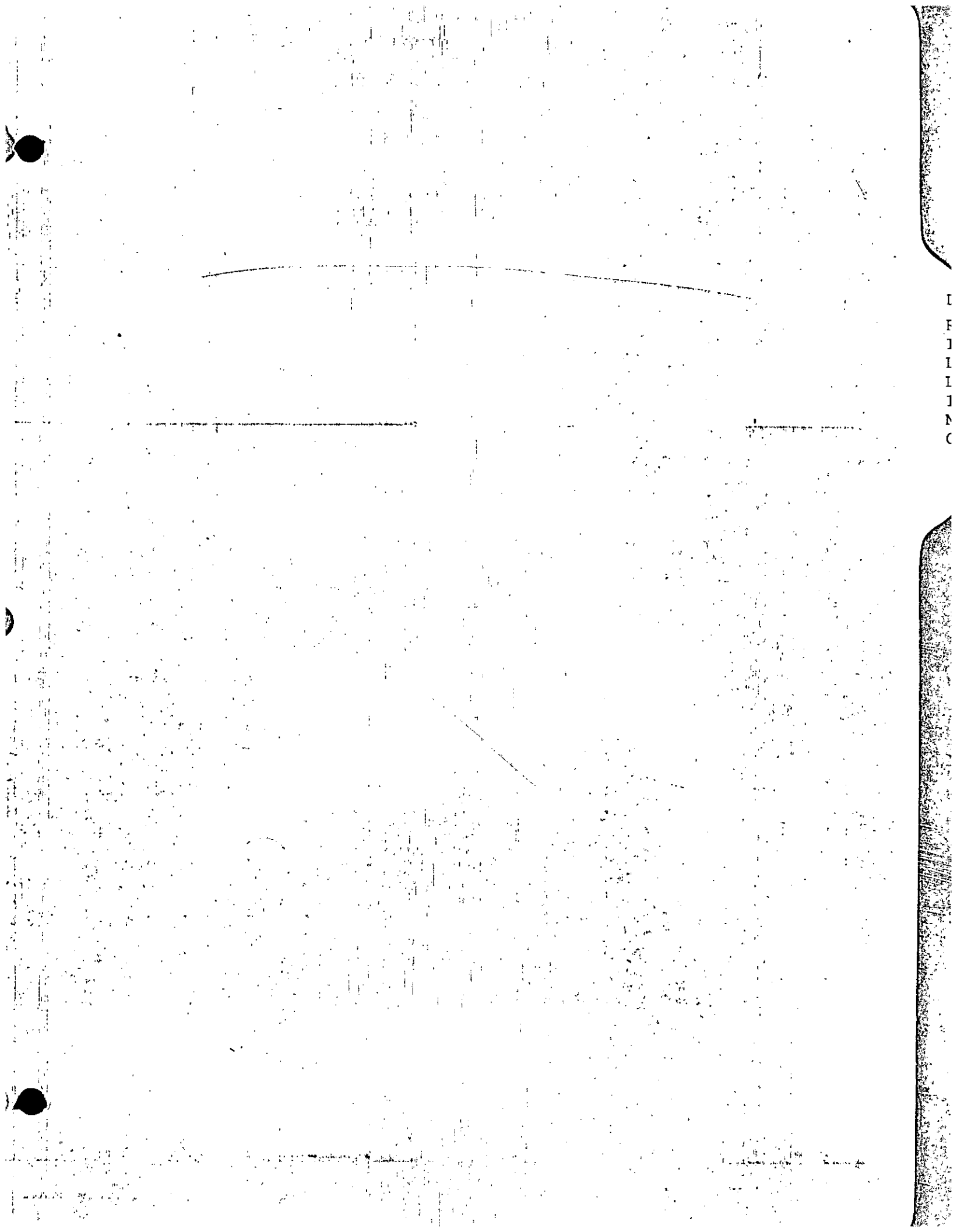
ORDOVICIAN - CHURCHILL RIVER GROUP

Red Head Rapids Fm	2191'	(-2161)
Chasm Creek Fm	2371'	(-2341)
Caution Creek Fm	2601'	(-2571)

ORDOVICIAN - BAD CACHE RAPIDS GROUP

Portage Chute	2687'	(-2656) log tops.

The Surprise Creek Formation would be reduced to facies/member status in the Portage Chute Formation.



DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

September 16, 1966

Rig up, unload aircraft, move equipment to lease from strip.

September 17, 1966

65' Mix mud, spud 9:30 A.M., drilling 12-1/4" surface hole, pickup collars, drilling, pull out Run 2 joints 9-5/8" casing - cement casing, waiting on cement.

September 18, 1966

106' Waiting on cement, drill out plug, waiting on orders and core hand, run into core, cut and recovered Core #1, attempt to cut core #2, run in to drill to stabilize hole, condition mud, run in with core barrel, cut Core #2 and recovered core, cut Core #3, recovered core, cut Core #4 recovered same.

September 19, 1966

167' Lay down barrel, mix mud, run in, ream rat hole, drill 8-3/4" hole ahead, repair swivel drilling, circulate, pull out to core, run in plugged barrel, pull out and clean up barrel run in, plugged barrel, pull out and clean barrel, raised section lose in mud tank, Cut Core #5.

September 20, 1966

256' Pull out and recovered core, run in and ream, drilling 8-3/4" hole ahead, repairs, drilling, circulate trip for core barrel, cut Core #6, recovered core and lay down barrel, run in and ream, drilling 8-3/4" hole, repairs, drilling.

September 21, 1966

330' Drilling 8-3/4" hole, unplug bit, drill, circulate drilling, trip for core barrel, cut core #7, pull out and recovered core, run in and ream rat hole, drilling 8-3/4" hole, condition mud, drilling, reach casing point, prepare to run surface casing, circulate and work pipe, dummy trip, work pipe.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress 24 hour period ending at 8:00 A.M. on date shown

1966

September 22, 1966
330' Measure out (Okay - no correction) Run 2 joints 7" casing stuck, pull back, test broken centralizer, run magnet pickup reamer and ream hole circulate and rotate on bottom, pull out, trip with magnet, rig repairs, run casing.

September 23, 1966
330' Ran 10 joints 7" 23th landed at 326' set with 65 sacks. Plug down 11:15 A.M., waiting on cement, nipple up, set casing, bowl and schaffer, rig hydril.

September 24, 1966
330' Hook up kill lines and hydril, lay flow line, pressure test rams, trip in to tag cement, pressure pipe, rams and hydril, drill out cement plug and shoe, rotate on bottom to drill up junk, lost one curved spring off centralizer in hole, made five trips with mill magnet and junk sub in an attempt to retreive junk in hole.

September 25, 1966
490' Trip into hole for fish, run in with 4-3/4" bit drill ahead, condition mud, losing circulation build volume, run in to core, cut core #8 and recover same, run in cut Core #9, recovered same, run 4-3/4" bit, drilling ahead.

September 26, 1966
624' Drilling 4-3/4" hole, mud very foamy, pull out to core, stuck in hole at 420-30 Rig circulate head, cirulate, pull free and complete trip, run in cut core #10, recovered core, run in drilling 4-3/4" hole ahead to 600 , with salt water. Cut Core #11 and recovered same - work on drawworks - prepare to drill ahead.

September 27, 1966
831' Drilled ahead 4-3/4" hole to 716, tripped and Cut Core #12 and recovered same. Drilled 4-3/4" hole ahead with salt water, trip to core.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

September 28, 1966
951' Cut Core #13 and recovered same, trip in with 4-3/4" bit, float upside down, trip out and in again. Drill ahead 4-3/4" hole 920. Tripped, cut core #14 and recovered same. Drilled ahead 4-3/4" hole. Using salt water as drilling fluid, hole in good condition.

September 29, 1966
1052' Drilled 4-3/4" hole, tripped, fixed swivel, Cut Core #15 and recovered same, cut Core #16, using salt water as drilling fluid, losing circulation.

September 30, 1966
1081' Complete cutting core #16 and recovered same, ran magnet and junk sub and recovered junk iron. Excessive loss of circulation, mixed mud and lost circulation material, trip in, regain circulation and drilled ahead. Lost complete circulation at 1079 -1081, mix mud.

October 1, 1966
1083' Mixed and pumped away total 180 barrels mud with lost circulation material, no returns. Trip out to core, well started flowing salt water at estimate 3-5000 barrels per day. Trip in with barrel. Cut Core #17 and recovered same. Suspect iron in hole, trip in with magnet. Float would not hold, cannot trip out, wait on tide out to get fresh water from creek to mix mud and kill well. Tide out at 7:30 A.M. fill tanks with fresh water and start mix mud.

October 2, 1966
1114' Mix mud and kill well. Pull magnet and run in with core barrel. Cut Core #18 and recover same, well unloaded mud and started to flow water on trip out with core. Flowing water at 42°F and measured 9500 ppm Cl. Cut Core #19 and recovered same, well flowing water continuously.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

October 3, 1966
1153' Cut Core #20 - core jammed - recovered same
Cut Core #21 - core jammed - recovered same
Cut Core #22 - recovered same

October 4, 1966
1174' Cut Core #23 and recovered same. Wait on tide out for fresh water and trip in hole open end. Mix mud and killed well.

October 5, 1966
1174' Ran Plug #1, 1174 - 1078 with 40 sacks cement and 3% $CaCl_2$, no returns while cementing or displacing, plug down at 8:45 A.M. Waiting on cement, felt for plug at 10:30 P.M., no feel to 1090. Ran plug #2, 1174 - 1078, with 40 sacks cement and 3-1/2% $CaCl_2$. Plug down at 2:55 A.M., believe plug not satisfactory, could not get slurry weight above 11.5#, hopper kept plugging, also no returns while cementing. Waiting on cement.

October 6, 1966
1174' Waiting on cement. Premixed and ran Plug No. 3 at 1070 with 30 sacks cement and 3-1/2% $CaCl_2$ and 2 sacks sawdust. No returns while cementing. Plug down at 7:00 P.M. October 5, 1966. Waiting on cement.

October 7, 1966
1178' Waiting on cement. Broke circulation at 1016' at 2:15 P.M. No returns, fluid level at constant 25-30' below K.B. Believe upper lost circulation zone (below surface casing) has direct communication with the ocean as fluid at approximately sea level. Felt for plug at 2:30 P.M. and found same at 1040. Drilled plug to 1055, not firm enough. Waiting on cement till 11:30 P.M. October 6, 1966. Drilled out plug and cleaned out hole to 1174. No returns. Drilled to 1178, circulated and tripped out to core. Well started to flow water while tripping out and continued flowing constantly.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

October 8, 1966
1225' Cut Core #24 (4-11/16" hole) and recovered same. Cut Core #25 and recovered same. Cut Core #26.

October 9, 1966
1294' Recovered Core #26. Cut Core #27, (4-11/16" hole) and recovered same. Drilled 4-3/4" hole to 1294, unable to catch samples.

October 10, 1966
1315' Cut Core #27, and recovered same. Drilled to 1294 and cut Core #28, could not complete trip out because of very high winds, estimate at 60 to 70 mph, wait on winds to abate. (Note: Pipe was stuck in hole prior to cutting core # 28 but pulled loose with 20,000#.

October 11, 1966
1368' Continued to trip out at 9:30 A.M. October 10, 1966 after waiting 19 hours for wind to abate. Recovered Core #28 Cut Core #29 and recovered same. Cut Core #30 and recovered same. Drilled 4-3/4" hole to 1368'.

October 12, 1966
1436' Cut Core #31 and recovered same. Drilled 4-3/4" hole to 1422. Cut Core #32.

October 13, 1966
1513' Recovered Core #32. Cut and recovered Core #33. Drilled 4-3/4" hole to 1493. Cut Core #34.

October 14, 1966
1605' Recovered Core #34. Drilled 4-3/4" hole to 1543. Cut and recovered Core #35. Drilled 4-3/4" hole to 1605.

October 15, 1966
1645' Trip in with core barrel, stuck in hole, worked pipe loose. Cleaned hole out, cut and recovered Core #36. Cut Core #37.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown :

1966

October 16, 1966
1645' Recovered Core #37, trip in open end, mixed mud and killed flow. Well had been flowing water continuously since October 7, 1966.

October 17, 1966
1633' Ran IES, SGR/C, Trip in circulated mud out and started well flowing. Corrected depth to 1633.

October 18, 1966
1633' Ran GR/N and Temp. Log with well flowing. Trip to Core, iron in hole. Ran in with magnet.

October 19, 1966
1633' No recoverey on magnet, ran in with bit and mill on iron, trip, indicated 1 joint drill-pipe in hole. Fished pipe out with overshot. Trip in with magnet.

October 20, 1966
1678' Trip in with magnet 2nd time. Corrected depth from 1633 to 1656. Trip with core barrel, cut and recovered Core #38, Cut Core #39.

October 21, 1966
1716' Recovered Core #39, rig repairs, cut and recovered Core #40. Cut Core #41.

October 22, 1966
1732' Rig repairs, recover Core #41. Trip in open end, mix mud.

October 23, 1966
1732' Mix mud and killwell, laid down drill pipe. Commence running 3-1/2" casing at 9:15 P.M. October 22, 1966.

October24, 1966
1732' Ran 3-1/2" casing, in at 11:00 P.M., October 23, Cemented casing with 148 sacks + 2%$CaCl_2$. Cement displaced at 5:00 A.M. October 24, 1966. Waiting on Cement.

October 25, 1966
1732' Waiting on Cement, well started flowing water through annulus. Mixed mud and killed well. Mixed and pumped 100 sacks cement + 1% $CaCl_2$. Set slips in at 1:00 A.M., cut casing off and set slips in. Waiting on cement.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

October 26, 1966 1732'	Nippled up, picked up 2-5/8" NW drill rods, ran in with mill bit and found cement at 1448 Pressure tested Hydril and attemped drill cement, bit plugged. Trip out.
October 27, 1966 1732'	Cleaned float sub and bit and trip back in to 1000'. Pressure tested Hydril to 600# for 15 minutes, test O.K. Drill out cement. Cement soft to 1650.
October 28, 1966 1761'	Drilled 2-15/16" hole with mill bit to 1744. Tripped and pressure tested blind rams and formation to 350# for 15 minutes, O.K. Trip in with core barrel and cut Core #42 (2-15/16" hole) Trip out, tight hole.
October 29, 1966 1799'	Tight trip out of hole due to matting of iron shavings from new drill rods. Recovered Core #42. Cut and recovered Core No. 43. Cut Core #44.
October 30, 1966 1820'	Cut and recovered Cores No. 44 and 45. Attempt make up long barrel,poor machining on connecting sub.
October 31, 1966 1859'	Cut and recovered Core No. 46. Cut Core No. 47.
November 1, 1966 1899'	Recovered Core #47. Cut and recovered Cores No. 48 and 49.
November 2, 1966 1939'	Cut and recovered Cores No. 50 and 51.
November 3, 1966 1999'	Cut and recovered Cores No. 52 and 53, Cut Core No. 54.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

November 4, 1966 2038'	Recovered Core No. 54, Cut and recovered Core No. 55 and 56.
November 5, 1966 2076'	Cut and recovered Core No. 57, Cut Core No. 58.
November 6, 1966 2125'	Cut and recovered Core No. 59 and 60.
November 7, 1966 2180'	Cut and recovered Core #61.
November 8, 1966 2201'	Cut and recovered Core #62 and 63.
November 9, 1966 2238'	Cut and recovered Core #64 and 65.
November 10, 1966 2275'	Cut and recovered Core #66.
November 11, 1966 2296'	Cut and recovered Core # 67 and 68.
November 12, 1966 2330'	Cut and recovered Core #69.
November 13, 1966 2357'	Cut and recovered Core #70 and 71.
November 14, 1966 2377'	Cut and recovered Core #72 and 73, twisted off Bit #7C between bit and reamer shell, drilled 2377 - 2380 while fishing.
November 15, 1966 2395'	Recovered diamond bit; cut Core #74.
November 16, 1966 2423'	Cut and recovered Core #74 and 75.
November 17, 1966 2477'	Cut and recovered Core #76,77, and 78.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

November 18, 1966 2516'	Cut and recovered Core #79 and 80.
November 19, 1966 2556'	Cut and recovered Core #81 and 82, work on light plant and boiler.
November 20, 1966 2575'	Repair main clutch and draw works, cut and recovered Core #83.
November 21, 1966 2614'	Cut and recovered Core #84, cut Core #85
November 22, 1966 2653'	Recovered Core #85, Cut and recovered Core #86, Cut Core #87.
November 23, 1966 2689'	Recovered Core #87, Cut and recovered Core # 88 and 89.
November 24, 1966 2729'	Cut and recovered Core #90 and 91.
November 25, 1966 2768'	String new drilling line, put blade on D-4, cut and recovered Core #92, Cut Core #93.
November 26, 1966 2777'	Recovered Core #93, Cut Core #94, no recovery, twisted off bit, catcher and reamer shell; work on rig truck, boiler, weight indicator, lights, hoisting plug, prepare to fish for reamer shell and bit.
November 27, 1966 2777'	Ran in with fishing tool, milled core out, worked into fish and recovered reamer shell, inner shell, core catcher and bit. Ran in 5 joints and circulated, waiting on new reamer shells. Light plant broke down shut boiler down and wait on light plant. Wait on reamer shells from 4:00 A.M. November 27, 1966.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

November 28, 1966	2777'	Circulate and wait on reamer shells and light plant.
November 29, 1966	2777'	Circulate and wait on reamer shells and light plant.
November 30, 1966	2777'	Circulate and wait on reamer shells and light plant.
December 1, 1966	2777'	Circulate and wait on reamer shells and light plant. Well flowing water estimate at 1/2 to 1 barrel per day.
December 2, 1966	2777'	Circulate and wait on reamer shells and light plant.
December 3, 1966	2777'	Circulate and wait on reamer shells and light plant.
December 4, 1966	2781'	Resumed operations at 6:00 P.M. December 3, 1966. Cut Core #95. Boiler shut down - no 220 volt current on new light plant.
December 5, 1966	2796'	Cut and recovered Core #95. Cut Core #96.
December 6, 1966	2817'	Cut and recovered Core #96. Cut Core #97.
December 7, 1966	2832'	Cut Core #97, wait 10-3/4 hours for wind to die down to trip out. Recovered Core #97 Cut Core #98.
December 8, 1966	2838'	Cut and recovered Core #98.

DAILY PROGRESS REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

Progress for 24 hour period ending at 8:00 A.M. on date shown

1966

December 9, 1966	2858'	Cut and recovered Core #99.
December 10, 1966	2877'	Cut and recovered Core #100. Hauled fresh water and mix mud to log and kill water flow.
December 11, 1966	2877'	Mixed and conditioned mud. Ran Schlumberger E-log, Caliper Log 3 Deviation Surveys, Lower barrel of survey instrument unlatched and dropped in hole. Ran Schlumberger Temperature Log.
December 12, 1966	2880'	Ran Velocity Survey, wait on GR-N sonde 3-1/2 hours, sonde arrived by chartered aircraft from Churchill at 5:30 P.M. Ran GR-N log. Ran in with core bit, worked over fish and cored 2877 to 2880.
December 13, 1966	2880'	Recovered Core No. 101 and recovered fish. Trip in open end to condition and to run plugs.
December 14, 1966	2880'	Ran Plug #4, 1880 - 1830 with 6 sacks neat cement. Ran Plug #5, 1780-1680 with 12 sacks cement. Trip out and fill hole with diesel fuel. Well flowing, attempt close b.o.p.'s, work on frozen b.o.p.'s. Closed b.o.p.'s at 7:00 A.M., cement at surface.
December 15, 1966	2880'	Work on frozen b.o.p.'s, and tear out some, wait on daylight.
December 16, 1966	2880'	Cleaned out cement to 28' K.B. Filled annulus up with 30 gal. diesel fuel. Rig down and wait on daylight.
December 17, 1966	2880'	Filled hole up with 25 gal. diesel fuel and completed rigging down. Rig Released at Noon December 17, 1966.

December 17, 1966

2880' [illegible] fuel and
completed [illegible] Released at Noon

DEVIATION SURVEY REPORT

SOGEPET AQUIT KASKATTAMA PROV. #1

	Depth	Deviation
Surface Hole 8-3/4"	270'	1/4°
Under Hole 4-3/4"	nil	-
2-15/16"	1800'	1°
2-15/16"	2300'	7/8°
2-15/16"	2800'	1°

LOST CIRCULATION PLUGS

SOGEPET AQUIT KASKATTAMA PROV. #1

October 4, 1966

Plug No. 1, 1078 - 1174 cemented with 40 sacks cement and 3% $CaCl_2$. Plug down at 8:45 A.M. No returns while cementing and displacing and was not able to get slurry with above 12.5#. Felt for plug at 10:30 P.M., no plug to 1090.

October 5, 1966

Plug No. 2, 1078 cemented with 45 sacks cement and 3-1/2% $CaCl_2$. Plug down at 2:55 A.M. Attempt squeeze into formation, pressure broke down at $\pm$50#, no pressure build up and no returns while running plug. Felt for plug at 4:00 P.M., no plug to 1090.

October 5, 1966

Plug No. 3, 1078 cemented with 30 sacks cement and 3-1/2% $CaCl_2$ and 2 sacks sawdust (premixed in tank). Plug down at 7:00 P.M. No returns while cementing or displacing. Felt for plug at 2:30 P.M. October 6, 1966 and found at 1040.

BIT RECORD

Well SOGEPET AQUIT KASKATTAMA PROV. #1

Drilling Contractor BIG INDIAN DRILLING CO. LTD. RIG 14

Date Drilling Started Sept. 16, 1966 Date Completed December 12, 1966

Remarks:

Bit No.	Size	Make	Type	Depth Out	Feet	Hours	Accum. Hours	Conditions T	B	G	No. JC.	Wt. 1000#	RPM	Pump Pres.
1	12-1/4	Reed	YT3	65	65	3-3/4	3-3/4					1	75	
2	8-3/4	Reed	YS1	67	2	1/2	4-1/4					1	75	
1C	4-11/16	Christ.	Dia.	72	5	3/4	5				2	12	70	200
3	4-3/4	Hughes		93	21	2-3/4	7-3/4							
1C	4-11/16	Christ.	Dia.	100	7	1-1/4	9							200
1C	"	"	"	102	2	2	11							200
1C	"	"	"	106	4	3	14							200
2	8-3/4	Reed	YS1	156	58	8-1/2	22-1/2				2	3	60/80	100
1C	4-11/16	Christ.	Dia.	169	13	2-3/4	25-1/4					3	60	275
2	8-3/4	Reed	YS1	186	17	4	29-1/4				2	3.2		
2C	4-11/16	Christ.	Dia.	197	11	1	30-1/4							
2	8-3/4	Reed	YS1	266	63	8-3/4	39				2	3.2	60	350
2C	4-11/16	Christ.	Dia.	270	4	1-1/4	40-1/4							
2	8-3/4	Reed	YS1	330	60	7-3/4	48					3.2	60-70	350
4	4-3/4	Varel	V3	398	68	4-3/4	52-3/4					3.2	68	200
1C	4-11/16	Christ.	Dia.	403	5	1/2	53-1/4					3.2	60	
1C	"	"	"	417	14	1-3/4	55					3.2	60	
5	4-3/4	Varel	V3	540	123	7	62					3	90	150
2C	4-11/16	Chris.	Dia.	558	18	2-1/4	64-1/4					3.3	60	375
5RR	4-3/4	Varel	V3	600	42	1-1/4	65-1/2					3	90	
2C	4-11/16	Chris.	Dia.	624	24	1-1/2	67					4.8	45	350
5RR	4-3/4	Varel	V3	716	92	6-1/4	73-1/4					3.2	60	200
2C	4-11/16	Chris.	Dia.	737	21	2-1/2	75-3/4					5	40-65	200
6	4-3/4	Varel	V3	831	94	5-1/2	80-1/4					4	85	
2C	4-11/16	Chris.	Dia.	851	20	2	82-1/4					5	60	420
6RR	4-3/4	Varel	V3	921	70	5-3/4	88					5	80	
2C	4-11/16	Chris.	Dia.	940	19	2-1/4	90-1/4					5.5	75	425
7	4-3/4	Varel	V3	1032	92	9-1/2	99-3/4					4	80	350
2C	4-11/16	Chris.	Dia.	1052	20	2-1/2	101-1/4					6	60	400
2C	4-11/16	Chris.	Dia.	1073	21	2-1/4	103-1/2					6	60	400
8	4-3/4	Reed	YT1	1081	8	1/2	104					5	80	300
2C	4-11/16	Chris.	Dia.	1083	2	1/4	104-1/4							
1C	"	"	"	1097	14	1-3/4	106					6-10	50-70	400
1C	"	"	"	1114	17	2-3/4	108-3/4					8	72	450
1C	"	"	"	1122	8	1-1/2	110-1/4					8	72	450
2C	"	"	"	1132	10	1	111-1/4					8	72	475
2C	"	"	"	1153	22	2-1/2	113-3/4					8	60	350
2C	"	"	"	1174	21	2-1/2	116-1/4					8	60	350
8RR	4-3/4	Reed	YT1	1178	4	1	117-1/4							

BIT RECORD

Well SOGEPET AQUIT KASKATTAMA PROV. #1

Drilling Contractor Big Indian Drilling Co. Ltd. Rig #14

Date Drilling Started Sept. 16, 1966 Date Completed Dec. 12, 1966

Remarks:

Bit No.	Size	Make	Type	Depth Out	Feet	Hours	Accum. Hours	Conditions T	B	G	No. DC.	Wt. 1000#	RPM	Pump Pres.
2C	4-11/16	Chris.	Dia.	1183	5	1-1/2	118-3/4							
2C	"	"	"	1203	20	3/4	119-1/2					7	60	350
2C	"	"	"	1225	22	1	120-1/2					7	60	350
2C	"	"	"	1246	21	1	121-1/2					6	56	350
8RR	4-3/4	Reed	YT1	1294	48	5	126-1/2					8	65	300
2C	4-11/16	Chris.	Dia.	1354	60	3-3/4	130-1/4					6	56	350
8RR	4-3/4	Reed	YT1	1368	14	2	132-1/4					9	65	300
2C	4-11/16	Chris.	Dia.	1388	20	1	133-1/4					6	54	350
8RR	4-3/4	Reed	YT1	1422	34	3	136-1/4					10	70	300
2C	4-11/16	Chris.	Dia.	1456	34	7-1/2	143-3/4					5-6	42-60	400
9	4-3/4	Reed	YHWR	1493	37	3-1/4	147-1/2					9	82	200
2C	4-11/16	Chris.	Dia.	1513	20	2-1/4	149-3/4					8	65	350
9RR	4-3/4	Reed	YHWR	1543	30	3-1/4	153					10	85	
2C	4-11/16	Chris.	Dia.	1563	20	2-1/2	155-1/2					6	65	350
9RR	4-3/4	Reed	YHWR	1605	42	5	160-1/2					9	90	200
2C	4-11/16	Chris.	Dia.	1645	40	6-1/2	167					6	65	350
				NOTE: Depth Corrected from 1645 to 1656										
1C	4-11/16	Chris.	Dia.	1732	76	16-1/2	183-1/2					7	64	400
10	2-15/16	S-C	Mill	1744	12	4-3/4	188-1/4							
3C	2-15/16	S-C	NX Dia.	1761	17	3-1/4	191-1/2					4	80	300
4C	2-15/16	S-C	NX Dia.	1820	59	8-3/4	200-1/4					2.5	80	300
5C	2-15/16	S-C	NX Dia.	2095	275	39	239-1/4					3	85	300
6C	2-15/16	S-C	BX Dia.	2182	87	17-1/4	256-1/2					3	55-85	300
4C	2-15/16	S-C	NX Dia.	2257	75	18-3/4	275-1/4					3-4	55	300
7C	2-15/16	S-C	NX Dia.	2377	120	47-1/2	322-3/4	Twisted off between bit & shell				2-4	55	300
Fishing tool -				2380										
8C	2-15/16	S-C	NX Dia.	2748	368	89	411-3/4	Twisted off				3-4	60	300-450
9C	2-15/16	S-C	NX Dia.	2777	29	9-1/2	421-1/4					3-4	60	450
10C	2-15/16	S-C	NX Dia.	2785	8	9-1/2	430-3/4					4	60	550
11C	2-15/16	S-C	NX Dia.	2858	73	44-3/4	475-1/2							
12C	2-15/16	S-C	NX Dia.	2877	19	11-3/4	487-1/4						65	450
12C	2-15/16	S-C	NX Dia.	2880	3	1-1/2	488-3/4							

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CSH-2-844

Company Banff Oil Ltd.

Well Name Soapot Aquit Kaskattama Prov. #1 Sample No. 1

Formation Pagwa Fm. Depth to 1174

Location ____ Field Wildcat Province Manitoba

Date Sampled Oct. 3, 1966 Date Analyzed Oct. 25, 1966 Analyst RV JK

Sampled From Flowing Well Flare Line By ____

Recovery ____ Elevation KB 30.0'; Grd. 15.3'

Constituents:

1. Total Solids 21,064 mg/liter 2. pH 8.66 3. Sp.Gr. 1.0153 @60°F.

4. Resistivity 0.342 Ohm-meters @ 72 °F 5. H_2S Absent

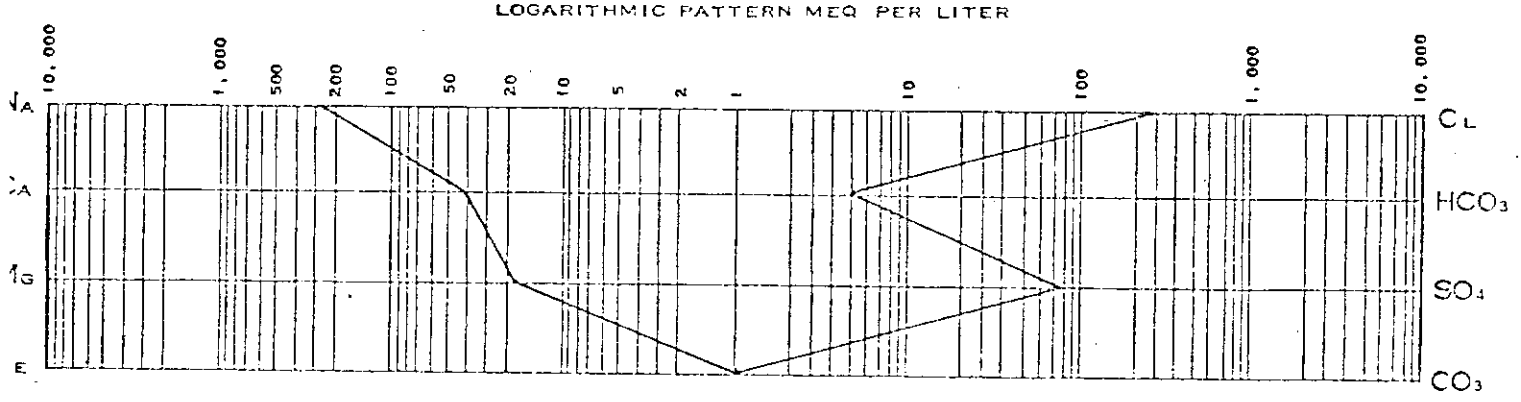
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6580	860	225	Absent	Absent		9452	305	3620	22	Absent	

MEQ PER LITER

286.1	42.9	18.5	Absent	Absent		266.5	5.0	75.3	0.7	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CDH-2-844

Company Banff Oil Ltd.

Well Name Sogopet Aquit Koskatteme Prov. #1 Sample No. 2

Formation Pagwa Fm. Depth to 1174

Location _____ Field Wildcat Province Manitoba

Date Sampled Oct. 3, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well Flare line By _____

Recovery _____ Elevation KB 30.0'; Grd. 15.3'

Constituents:

1. Total Solids 20,989 mg/liter 2. pH 8.62 3. Sp.Gr. 1.0148 @60°F.

4. Resistivity 0.336 Ohm-meters @ 72 °F 5. H_2S Absent

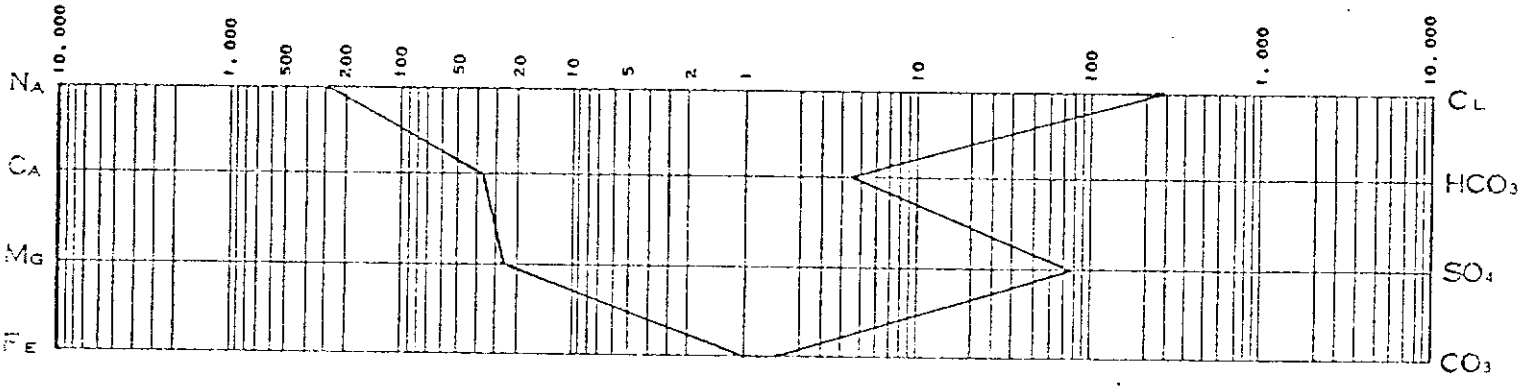
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6509	779	323	Absent	Absent		9566	264	3500	48	Absent	

MEQ PER LITER

283	38.9	26.6	Absent	Absent		269.8	4.3	72.8	1.6	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CEH-2-844

Company Banff Oil Ltd.

Well Name Sogepet Aquit Kaskattama Prov. #1 Sample No. 3

Formation Pagwa Fm. Depth to 1174

Location ____ Field Wildcat Province Manitoba

Date Sampled Oct. 3, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well Flare line By ____

Recovery ____ Elevation KB 30.0'; Grd. 15.3'

Constituents:

1. Total Solids 20,258 mg/liter 2. pH 8.52 3. Sp.Gr. 1.0149 @60°F.

4. Resistivity 0.357 Ohm-meters @ 72 °F 5. H_2S Absent

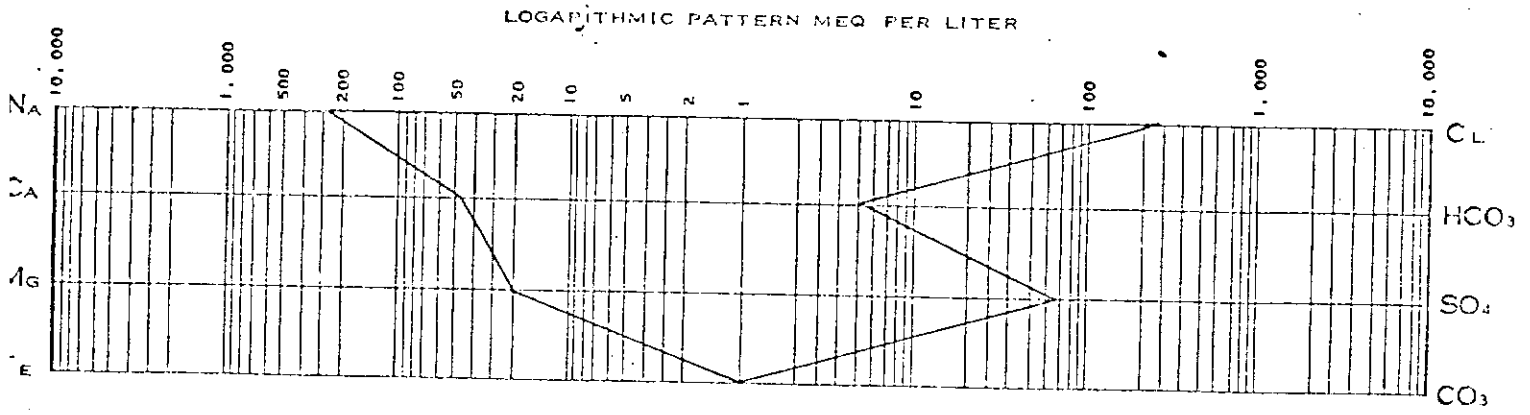
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6199	925	249	Absent	Absent		9352	314	3190	29	Absent	

MEQ PER LITER

269.5	46.2	20.5	Absent	Absent		263.7	5.1	66.4	1.0	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-844

Company Banff Oil Ltd.

Well Name Sogopet Ault Kaskattama Prov. # 1 Sample No. 4

Formation Pagwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct. 25, 1966 Analyst BV JK

Sampled From Flowing Well Flare line By _____

Recovery _____ Elevation KB 30.0'; Grd. 15.3'

Constituents:

1. Total Solids 20,414 mg/liter 2. pH 8.75 3. Sp.Gr. 1.0143 @60°F.

4. Resistivity 0.365 Ohm-meters @ 72 °F 5. H_2S Absent

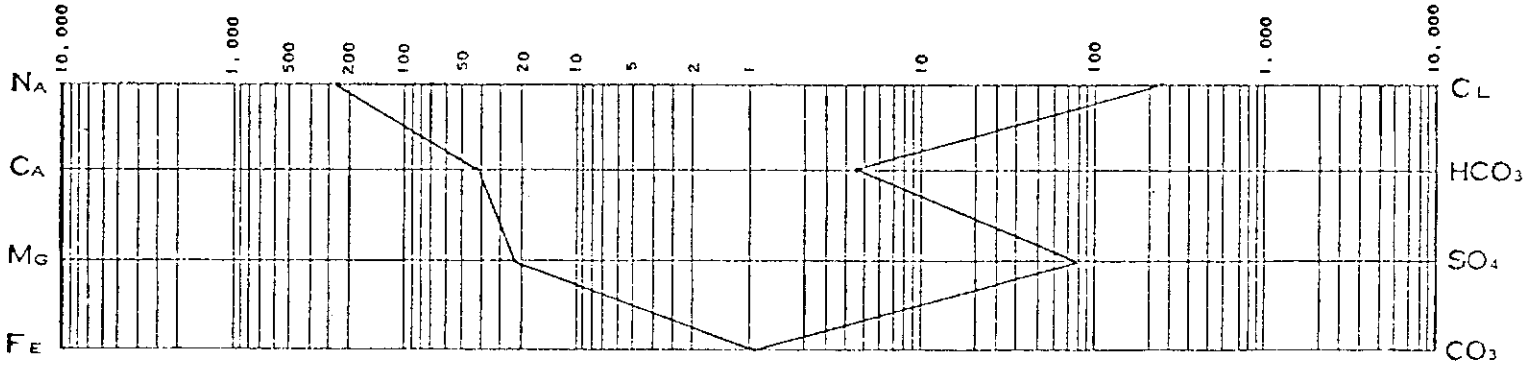
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6261	845	274	Absent	Absent		9009	283	3730	22	Absent	

MEQ PER LITER

272.2	42.2	22.5	Absent	Absent		254	4.6	77.6	0.7	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
EDMONTON CALGARY REGINA

WATER ANALYSIS

File CRH-2-344

Company Banff Oil Ltd.

Well Name Sogepet Aquit Kaskattama Prov. # 1 Sample No. 5

Formation Pagwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well flare line By _____

Recovery _____ Elevation KB 30.0'

Constituents:

1. Total Solids 20,400 mg/liter 2. pH 8.96 3. Sp.Gr. 1.0144 @60°F.

4. Resistivity 0.370 Ohm-meters @ 72 °F 5. H_2S Absent

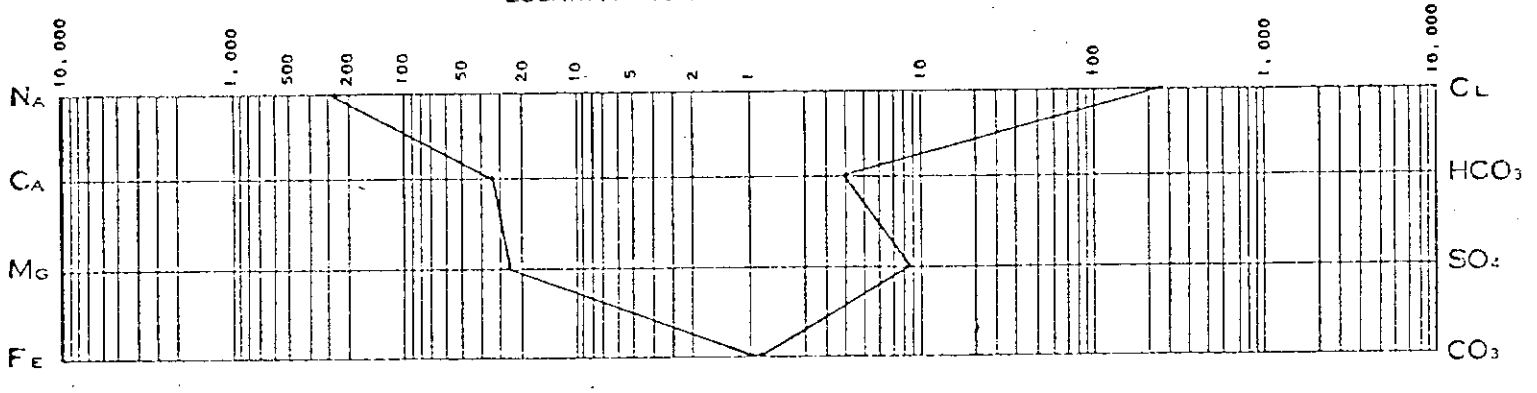
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6307	690	334	Absent	Absent		8781	239	4015	34	Absent	

MEQ PER LITER

274.2	34.4	27.5	Absent	Absent		247.6	3.9	83.5	1.1	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-844

Company Banff Oil Ltd.

Well Name Sogopet Aquit Keskattama Prov. # 1 Sample No. 6

Formation Pagwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Flowing Well flare line By _____

Recovery _____ Elevation KB 30.0; Grd. 15.3'

Constituents:

1. Total Solids 20,210 mg/liter 2. pH 8.76 3. Sp.Gr. 1.0146 @60°F.

4. Resistivity 0.389 Ohm-meters @ 72 °F 5. H_2S Absent

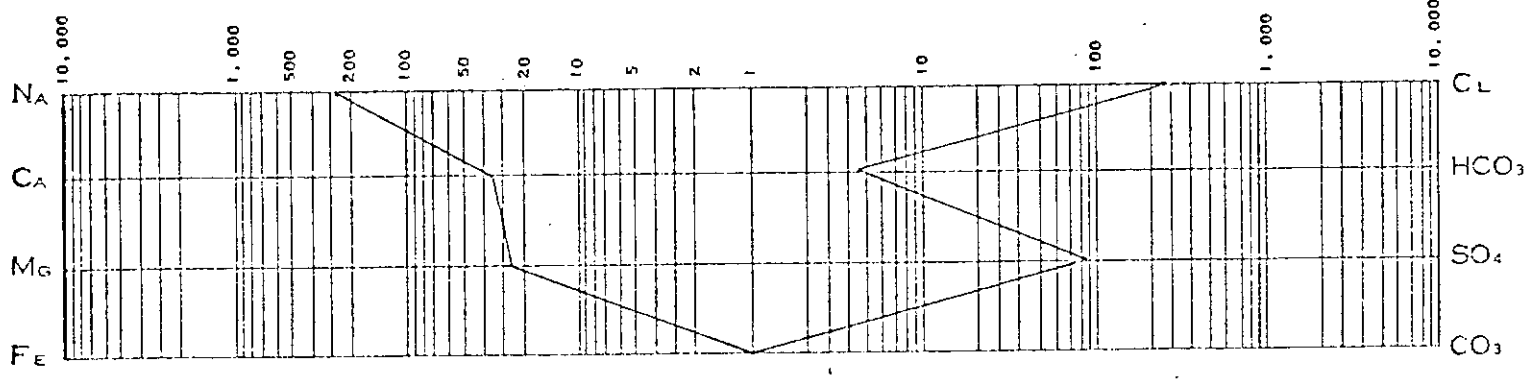
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6233	688	337	Absent	Absent		8710	273	3945	24	Absent	

MEQ PER LITER

271	34.3	27.7	Absent	Absent		245.6	4.5	82.1	0.8	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CDH-2-844

Company Banff Oil Ltd.

Well Name Sogepet Acuit Kaskattama Prov. # 1 Sample No. 7

Formation Pacwa Fm. Depth to 1081

Location _____ Field Wildcat Province Manitoba

Date Sampled Sept. 30, 1966 Date Analyzed Oct.27, 1966 Analyst BV JK

Sampled From Flowing Well flare line By _____

Recovery _____ Elevation KB 30.0'; Grd. 15.3'

Constituents:

1. Total Solids 20,038 mg/liter 2. pH 8.70 3. Sp.Gr. 1.0144 @60°F.

4. Resistivity 0.385 Ohm-meters @ 72 °F 5. H_2S Absent

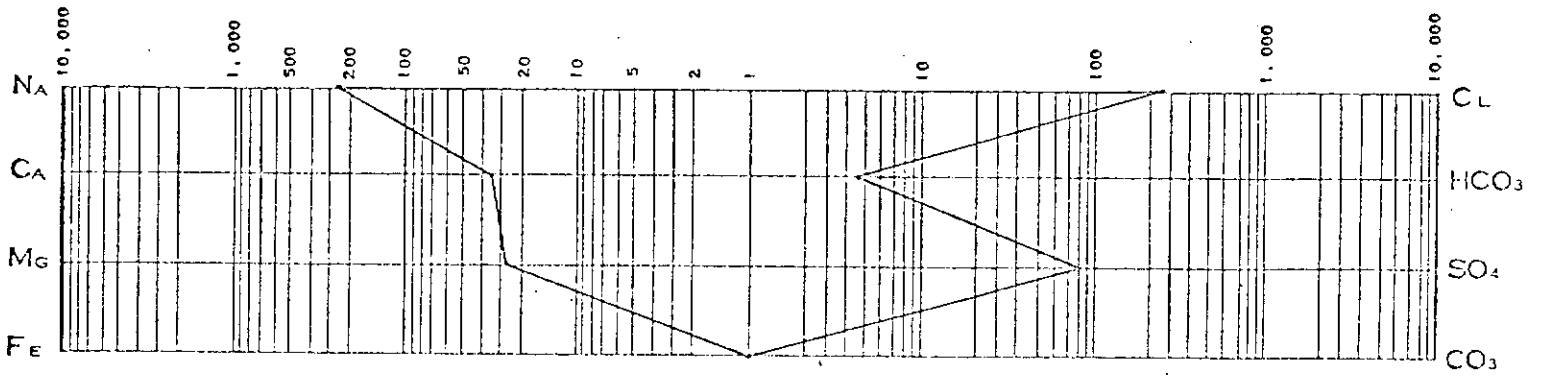
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
6173	688	341	Absent	Absent		8745	271	3800	20	Absent	

MEQ PER LITER

268.4	34.3	28.0	Absent	Absent		246.6	4.4	79.0	0.7	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CCH-2-844

Company Banff Oil Ltd.

Well Name Sogepet Aquit Kaskattama Prov. # 1 Sample No. 8

Formation Depth

Location Field Wildcat Province Manitoba

Date Sampled Oct. 14, 1966 Date Analyzed Oct. 25, 1966 Analyst BV JK

Sampled From Sea Water By

Recovery Elevation

Constituents:

1. Total Solids 27,043 mg/liter 2. pH 8.82 3. Sp.Gr. 1.0185 @60°F.

4. Resistivity 0.240 Ohm-meters @ 72 °F 5. H_2S Absent

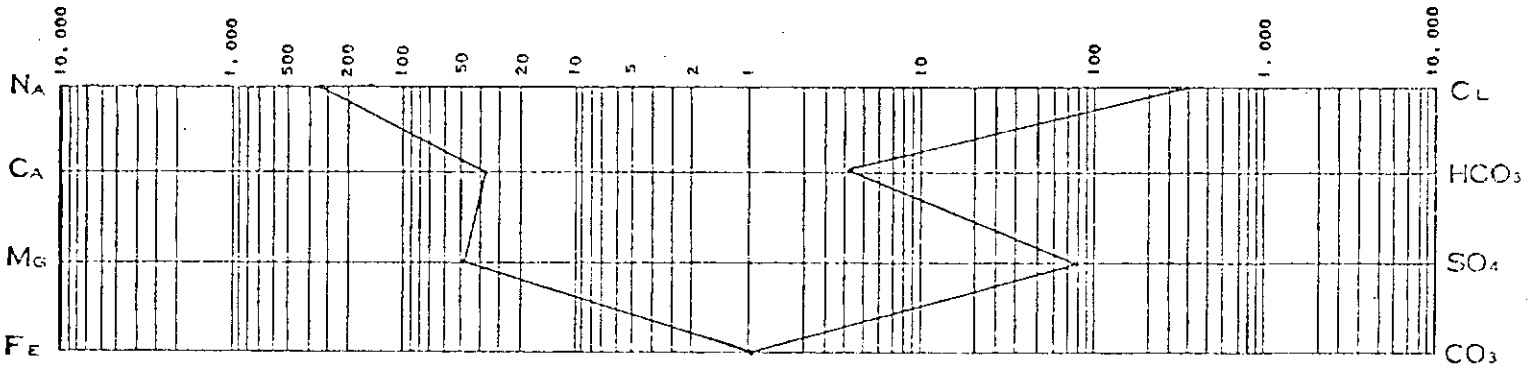
MILLIGRAMS PER LITER

N_A & K	C_A	Mg	Fe	Ba		C_L	HCO_3	SO_4	CO_3	OH	
843.4	776	607	Absent	Absent		13214	252	3730	30	Absent	

MEQ PER LITER

336.7	38.7	49.9	Absent	Absent		372.6	4.1	77.6	1.0	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



Sea water: off the beach on Hudson's Bay, approximately 4 miles N.W. of Kaskattama River

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-844

Company Banff Oil Ltd.

Well Name Soogpet Aquit Keskattama Prov. # 1 Sample No. 9

Formation Depth

Location Field Wildcat Province Manitoba

Date Sampled Oct. 14, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Sea Water By

Recovery Elevation

Constituents:

1. Total Solids 25,967 mg/liter 2. pH 8.72 3. Sp.Gr. 1.0187 @60°F.

4. Resistivity 0.289 Ohm-meters @ 72 °F 5. H_2S Absent

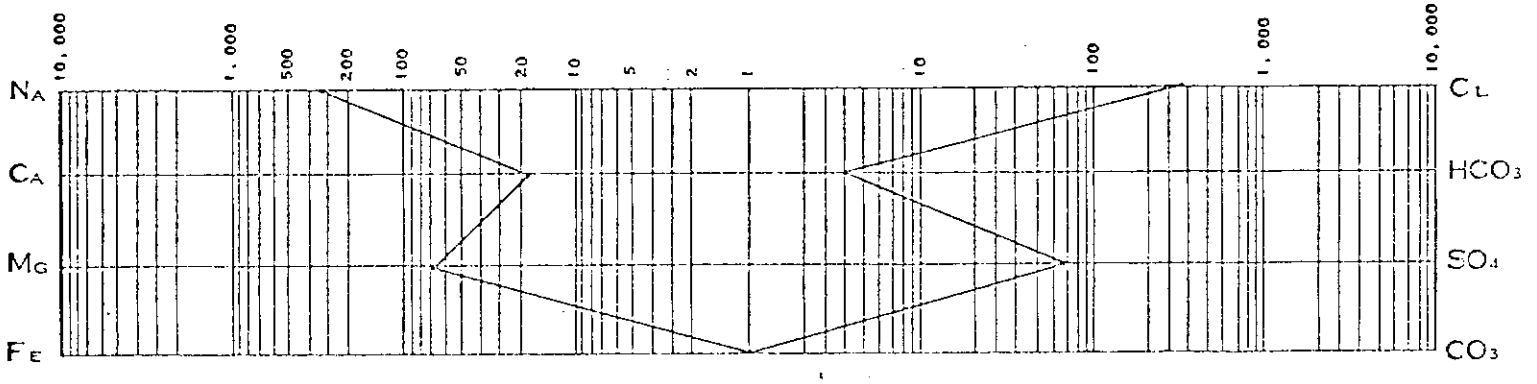
MILLIGRAMS PER LITER

N_A & K	C_A	M_G	F_E	B_A		C_L	HCO_3	SO_4	CO_3	OH	
8134	357	847	Absent	Absent		13,150	240	3200	19	Absent	

MEQ PER LITER

354.5	17.8	69.6	Absent	Absent		370.8	3.9	66.6	0.6	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



Sea Water: off the beach on Hudson's Bay, approximately 4 miles N.W. of Kaskattama River

CORE LABORATORIES-CANADA LTD.

PETROLEUM RESERVOIR ENGINEERING

EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-814

Company Banff Oil Ltd.

Well Name Sogepet Aquit Kaskattama Prov. # 1 Sample No. 10

Formation Depth

Location Field Wildcat Province Manitoba

Date Sampled Oct. 14, 1966 Date Analyzed Oct. 27, 1966 Analyst BV JK

Sampled From Sea Water By

Recovery Elevation

Constituents:

1. Total Solids 25,188 mg/liter 2. pH 8.93 3. Sp.Gr. 1.0186 @60°F.

4. Resistivity 0.264 Ohm-meters @ 72 °F 5. H_2S Absent

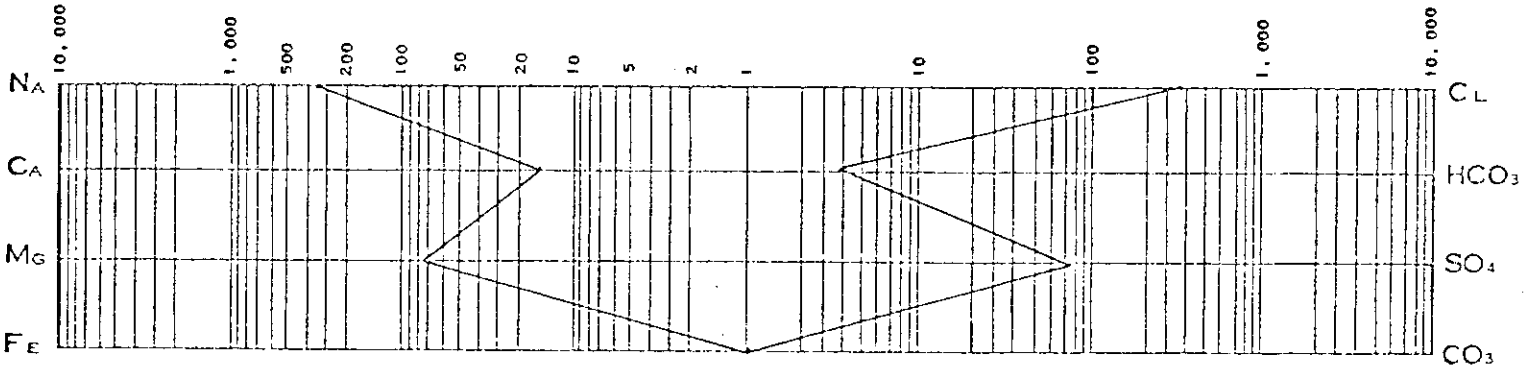
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
8229	323	874	Absent	Absent		13084	224	3450	24	Absent	

MEQ PER LITER

357.8	16.1	71.8	Absent	Absent		368.4	3.7	71.8	0.8	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



Sea Water: off the beach on Hudson's Bay, approximately 4 miles N.W. of Kaskattama River

CORE LABORATORIES-CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING
EDMONTON CALGARY REGINA

WATER ANALYSIS

File CBH-2-1020

Company Banff Oil Ltd.

Well Name Sogepet Aquit Kaskattama Prov #1 Sample No. 1

Formation Ordovician Depth 2777'

Location 9009' 00" WL Field Wildcat Province Manitoba

Date Sampled Dec. 1/66 Date Analyzed Dec. 24/66 Analyst J.K.

Sampled From Flowing Well By

Recovery Elevation

Constituents:

1. Total Solids 431,989 mg/liter 2. pH 5.22 3. Sp.Gr. 1.3259 @60°F.

4. Resistivity .007 Ohm-meters @ 75 °F 5. H_2S Absent

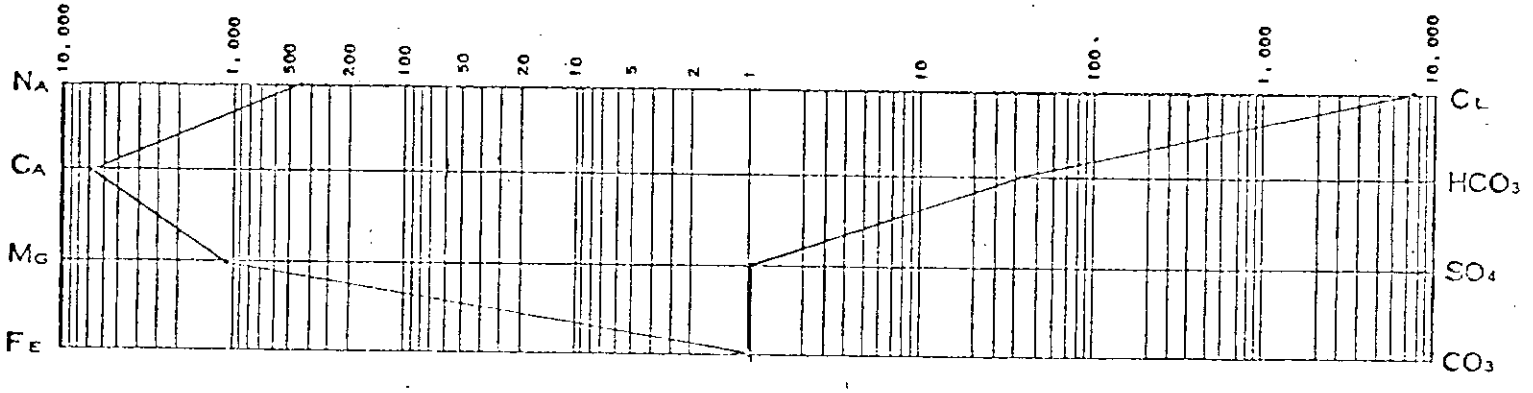
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	Ba		Cl	HCO_3	SO_4	CO_3	OH	
10697	128308	12546	Absent	Absent		279643	795	Absent	Absent	Absent	

MEQ PER LITER

465.1	6402.5	1031.3	Absent	Absent		7885.9	13.0	Absent	Absent	Absent	

LOGARITHMIC PATTERN MEQ PER LITER



Duplicate

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - BANFF OIL LTD.
Well - SOGEPET AQUIT KASKATTAMA PROV NO. 1
Field - WILDCAT, MANITOBA
Location - 57 04.00" N.L.
90 09.00" W.L.

Date Report - JANUARY 6, 1967
Formation -
D. Fluid - WATER BASE MUD

Page - 1 of 51
File - CNP-1-8352, CNP-1-8387 and CNP-4-3422
Analysts - MM RM BK BD
Cores - DIAMOND

Remarks - Full Diameter analysis except Cores 28-41 where most of the analysis was on drilled plugs.
Conventional Saturations on exposed core.
Samples sandblasted to removed glazed surface where necessary.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	VERT. PERM. × FT.		VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)		74 75	
												Columns 76-77 (01)	
CORE NO. 1 67' - 72' (Rec. 1.0')													
1	67.0-68.0	1.0	125.	37.	4.3	125.0	17.3	17.30	2.30	2.78	4.30		1.Few SV.
-	68.0-72.0	4.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-		Lost core
CORE NO. 2 93' - 100' (Rec. Reported 2.0' Measured 1.5')													
2	93.0-93.6	0.6	-0.1	0.14	-0.1	0.084	3.6	2.16	2.60	2.70	-	1	PPV.
3	93.6-94.1	0.5	0.21	-0.1	-0.1	0.105	3.4	1.70	2.61	2.70	-		PPV.
4	94.1-94.5	0.4	37.	7.2	-0.1	14.8	13.0	5.20	2.42	2.78	-		1.
-	94.5-100.0	5.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-		Lost core
CORE NO. 3 100' - 102' (Rec. Reported 1.0' Measured 1.5')													
5	100.0-100.5	0.5	282.	177.	-0.1	141.0	9.2	4.60	2.48	2.73	-		1.
6	100.5-101.0	0.5	17.	15.	-0.1	8.50	9.3	4.65	2.45	2.70	-		1.Few PPV.
7	101.0-101.5	0.5	-0.1	-0.1	-0.1	-	4.7	2.35	-1.0	-1.0	-		1.Few PPV.
-	101.5-102.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-		Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	74 75 Columns 76-77 (01)	
CORE NO. 4 102' - 106' (Rec. Reported 1.5' Measured 1.0')												
8	102.0-103.0	1.0	-0.1	-0.1	-0.1	-	2.7	2.70	-1.0	-1.0	-	1.
-	103.0-106.0	3.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	Lost core
CORE NO. 5 156' - 169' (Rec. Reported 7.0' Measured 6.0')												
9	156.0-156.8	0.8	0.2	-0.1	-0.1	0.16	23.4	18.72	-1.0	-1.0	-	1.
10	156.8-157.7	0.9	-0.1	-0.1	-0.1	-	23.4	21.06	-1.0	-1.0	-	1.
11	157.7-158.5	0.8	-0.1	-0.1	-0.1	-	22.7	18.16	-1.0	-1.0	-	1.
12	158.5-159.4	0.9	0.4	-0.1	-0.1	0.36	25.2	22.68	-1.0	-1.0	-	1.
13	159.4-160.2	0.8	0.1	-0.1	-0.1	0.08	26.9	21.52	-1.0	-1.0	-	1.
14	160.2-161.1	0.9	-0.1	-0.1	-0.1	-	25.1	22.59	-1.0	-1.0	-	1.
15	161.1-162.0	0.9	-0.1	-0.1	-0.1	-	8.1	7.29	-1.0	-1.0	-	1.
-	162.0-169.0	7.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	Lost core
CORE NO. 6 186' - 197' (Rec. Reported 2.0' Measured 3.0')												
16	186.0-186.8	0.8	0.2	-0.1	-0.1	0.16	18.6	14.88	-1.0	-1.0	-	1.
17	186.8-187.5	0.7	0.1	-0.1	-0.1	0.07	22.4	15.68	-1.0	-1.0	-	1.
18	187.5-188.3	0.8	0.4	-0.1	-0.1	0.32	26.1	20.88	-1.0	-1.0	-	1.
19	188.3-189.0	0.7	0.5	-0.1	-0.1	0.35	25.2	17.64	-1.0	-1.0	-	1.
-	189.0-197.0	8.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	Lost core
CORE NO. 7 266' - 270' (Rec. 2.0')												
-	266.0-266.5	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	Mud
-	266.5-268.0	1.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-	Dense
-	268.0-270.0	2.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)	54-57 (56)			58-61 (59)	62-65 (63)	74 75	
											Columns 76-77 (01)	
CORE NO. 17 1081' - 1083' (Rec.2.0')												
20	1081.0-1081.5	0.5	38.	12.	-0.1	19.0	4.5	2.25	-1.0	-1.0	-	1.PPV.
21	1081.5-1082.0	0.5	0.13	-0.1	-0.1	0.065	1.8	0.90	2.69	2.74	-	Few SV.
22	1082.0-1082.5	0.5	-0.1	-0.1	-0.1	-	0.8	0.40	2.68	2.70	-	Few PPV.
23	1082.5-1083.0	0.5	264.	132.	2.4	132.0	7.1	3.55	2.51	2.70	1.20	PPV. SV.

Note: All samples sandblasted prior to analysis.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. x FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

CORE NO. 18 1083' - 1097' (Rec. 13.5') (3 Boxes)

1	1083.0-1084.4	1.4	2.8	1.5	-0.1	3.92	4.1	5.74	2.62	2.73	0.0	9.8	-	PPV. I.
2	1084.4-1085.3	0.9	0.49	0.47	-0.1	0.44	4.8	4.32	2.61	2.74	0.0	4.2	-	SV. PPV. I.
3	1085.3-1085.9	0.6	3.8	3.2	0.71	2.28	6.3	3.78	2.57	2.74	0.0	3.2	0.43	SV. PPV. I.
4	1085.9-1087.0	1.1	0.23	0.19	-0.1	0.25	2.4	2.64	2.71	2.78	0.0	8.3	-	Few PPV. I.
5	1087.0-1087.7	0.7	0.19	0.17	-0.1	0.13	3.7	2.59	2.66	2.76	0.0	5.4	-	SV. PPV. I.
6	1087.7-1088.5	0.8	0.19	0.09	-0.1	0.15	2.3	1.84	2.69	2.76	0.0	8.7	-	SV. PPV. I.
7	1088.5-1089.2	0.7	220.	140.	26.	154.00	7.2	5.04	2.54	2.74	0.0	2.8	18.20	Slightly V. I.
8	1089.2-1090.0	0.8	1040.	790.	183.	832.00	7.6	6.08	2.52	2.73	0.0	2.6	146.40	Slightly V. I.
9	1090.0-1090.9	0.9	6140.	1140.	52.	5526.00	11.4	10.26	2.42	2.73	0.0	1.8	46.80	V. I.
10	1090.9-1091.4	0.5	**	1680.	9550.	840.00	17.0	8.50	2.27	2.74	0.0	1.2	4775.00	V. I.
11	1091.4-1091.9	0.5	296.	277.	168.	148.00	8.6	4.30	2.50	2.74	0.0	2.3	84.00	V. I.
12	1091.9-1092.5	0.6	6800.	2.0	-0.1	4080.00	3.9	2.34	2.63	2.74	0.0	5.1	-	SV. PPV. I.
13	1092.5-1093.4	0.9	370.	1.3	1.3	333.00	6.8	6.12	2.55	2.73	0.0	3.0	1.17	Slightly V. I.
14	1093.4-1094.0	0.6	2320.	5.0	1.1	1392.00	7.8	4.68	2.52	2.74	0.0	2.6	0.66	Slightly V. I.
15	1094.0-1095.3	1.3	505.	157.	0.37	656.50	5.8	7.54	2.56	2.72	0.0	3.5	0.48	Slightly V. I.
16	1095.3-1096.5	1.2	70.	0.10	0.41	84.00	3.6	4.32	2.63	2.73	0.0	5.6	0.49	SV. PPV. I.
-	1096.5-1097.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

CORE NO. 19 1097' - 1114' (Rec. 15.0') (4 Boxes)

-	1097.0-1097.7	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
17	1097.7-1098.6	0.9	0.29	0.14	0.06	0.26	4.4	3.96	2.60	2.72	0.0	18.0	0.05	SV. PPV. I.
18	1098.6-1099.2	0.6	0.13	0.08	0.05	0.08	7.3	4.38	2.59	2.83	0.0	5.5	0.03	SV. PPV. I.
19	1099.2-1100.0	0.8	-0.1	-0.1	-0.1	-	4.0	3.20	2.70	2.80	0.0	10.0	-	Few SV. I.
20	1100.0-1100.7	0.7	0.05	0.02	-0.1	0.04	3.4	2.38	2.71	2.81	0.0	5.9	-	I.
21	1100.7-1101.4	0.7	0.02	0.01	-0.1	0.01	1.8	1.26	2.68	2.72	0.0	11.0	-	Few SV. I.
22	1101.4-1102.3	0.9	0.02	0.02	-0.1	0.02	1.8	1.62	2.67	2.72	0.0	11.0	-	I.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. x FT.			VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74	75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)				
CORE NO. 19 cont'd																
23	1102.3-1103.1	0.8	-0.1	0.02	-0.1	-	2.4	1.92	2.65	2.72	0.0	8.3	-		1	Few SV. I.
24	1103.1-1103.8	0.7	0.31	0.27	0.32	0.22	4.8	3.36	2.60	2.73	0.0	8.3	0.22			SV. PPV. I.
25	1103.8-1104.6	0.8	3.8	0.94	0.49	3.04	4.9	3.92	2.58	2.71	0.0	4.1	0.39			SV. PPV. I.
26	1104.6-1106.3	1.7	-0.1	-0.1	-0.1	-	1.6	2.72	2.68	2.73	0.0	12.5	-			Few SV. I.
27	1106.3-1107.5	1.2	0.88	0.20	3.2	1.06	3.9	4.68	2.62	2.72	0.0	10.2	3.84			SV. PPV. I.
SS-28	1107.5-1108.0	0.5	28.	0.76	2.1	14.00	1.4	0.70	-1.0	-1.0	0.0	14.3	1.05			Few SV. PPV. I.
29	1108.0-1108.9	0.9	0.06	-0.1	-0.1	0.05	2.6	2.34	2.64	2.71	0.0	7.7	-			Few SV. I.
30	1108.9-1109.4	0.5	0.16	0.03	-0.1	0.08	2.7	1.35	2.64	2.72	0.0	14.8	-			Few SV. I.
31	1109.4-1110.2	0.8	0.03	0.01	-0.1	0.02	2.9	2.32	2.63	2.70	0.0	20.7	-			SV. PPV. I.
32	1110.2-1110.8	0.6	43.	2.1	-0.1	25.80	4.6	2.76	2.59	2.72	0.0	4.4	-			Slightly V. I.
33	1110.8-1112.0	1.2	21.	4.6	0.09	25.20	5.2	6.24	2.58	2.73	0.0	3.9	0.11		1	Slightly V. I.
-	1112.0-1114.0	2.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-			Lost core
CORE NO. 20 1114' - 1122' (Rec. 7.5') (2 Boxes)																
34	1114.0-1114.9	0.9	168.	33.	0.33	151.20	4.8	4.32	2.59	2.72	0.0	4.2	0.30			SV. PPV. I.
35	1114.9-1115.7	0.8	38.	4.3	-0.1	30.40	3.7	2.96	2.62	2.72	0.0	5.4	-			SV. PPV. I.
36	1115.7-1116.1	0.4	234.	82.	87.	93.60	9.2	3.68	2.47	2.72	0.0	2.2	34.80		1	SV. PPV. I.
37	1116.1-1117.0	0.9	0.10	0.07	-0.1	0.09	2.0	1.80	2.68	2.73	0.0	20.0	-			Few SV. I.
38	1117.0-1118.3	1.3	0.07	0.07	-0.1	0.09	1.0	1.30	2.69	2.71	0.0	40.0	-			Few PPV. I.
39	1118.3-1119.4	1.1	5.1	0.11	-0.1	5.61	1.5	1.65	2.67	2.71	0.0	40.0	-		1	Few SV. I.
40	1119.4-1120.4	1.0	0.15	0.12	-0.1	0.15	1.8	1.80	2.67	2.73	0.0	22.2	-			Few SV. I.
41	1120.4-1121.0	0.6	0.20	0.12	-0.1	0.12	1.3	0.78	2.69	2.72	0.0	15.4	-			I.
-	1121.0-1121.5	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-			Broken core
-	1121.5-1122.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-			Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.		VISUAL EXAMINATION
	11-17 18-24	225-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)			
													Columns 76-77 (01)		
CORE NO. 21 1122' - 1132' (Rec. 10.0') (2 Boxes)															
42	1122.0-1122.8	0.8	0.04	0.03	-0.1	0.03	1.0	0.80	2.68	2.71	0.0	40.0	-		Few SV. I.
43	1122.8-1124.1	1.3	3.7	0.68	-0.1	4.81	1.1	1.43	2.68	2.71	0.0	36.4	-	I	Few SV. I.
44	1124.1-1125.5	1.4	0.07	0.05	-0.1	0.10	2.7	3.78	2.65	2.72	0.0	14.8	-		Few SV. I.
45	1125.5-1126.8	1.3	0.04	0.01	-0.1	0.05	0.9	1.17	2.69	2.71	0.0	44.5	-	I	Few SV. I.
46	1126.8-1127.8	1.0	4200.	2460.	502.	4200.00	12.3	12.30	2.40	2.74	0.0	32.5	502.00		V. I.
47	1127.8-1128.8	1.0	4620.	4030.	1300.	4620.00	15.6	15.60	2.31	2.74	0.0	12.8	1300.00		V. I.
-	1128.8-1129.9	1.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Broken
48	1129.9-1130.9	1.0	-1.0	18.	-1.0	18.00	10.2	10.20	2.45	2.73	0.0	3.9	-	I	V. I.
49	1130.9-1132.0	1.1	-1.0	0.05	-1.0	0.06	2.7	2.97	2.65	2.72	0.0	14.8	-	I	Few SV. I.
CORE NO. 22 1132' - 1153' (Rec. 21.0') (5 Boxes)															
-	1132.0-1132.6	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by client
50	1132.6-1132.9	0.3	358.	16.	4.4	107.40	5.2	1.56	2.58	2.72	0.0	11.5	1.32	I	Slightly V. I.
-	1132.9-1133.5	0.6	-1.0	-1.0	-1 0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by client
SS-511	1133.5-1133.7	0.2	48.	40.	23.	9.60	9.9	1.98	-1.0	-1.0	0.0	4.1	4.60		V. I. strom
52	1133.7-1134.0	0.3	62.	3.8	0.03	18.60	3.5	1.05	2.63	2.72	0.0	11.4	0.01		SV. PPV. I.
-	1134.0-1134.6	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by client
53	1134.6-1134.9	0.3	525.	70.	0.15	157.50	8.3	2.49	2.51	2.72	0.0	12.1	0.05		Slightly V. I.
-	1134.9-1135.5	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by client
54	1135.5-1136.4	0.9	1780.	28.	-0.1	1602.00	6.0	5.40	2.57	2.73	0.0	3.3	-		Slightly V. I.
55	1136.4-1137.9	1.5	58.	35.	-1.0	87.00	4.3	6.45	2.59	2.71	0.0	4.7	-		Slightly V. I.
56	1137.9-1138.9	1.0	-0.1	-0.1	-1.0	-	3.7	3.70	2.62	2.72	0.0	10.8	-		Few SV. I.
57	1138.9-1139.9	1.0	61.	32.	-1.0	61.00	4.1	4.10	2.62	2.72	0.0	4.9	-		Slightly V. I.
58	1139.9-1140.2	0.3	8200.	57.	67.	2460.00	12.7	3.81	2.36	2.71	0.0	4.7	20.10		V. I.
59	1140.2-1140.6	0.4	53.	49.	31.	21.20	14.6	5.84	2.32	2.72	0.0	4.1	12.40		SV. PPV. I.
60	1140.6-1141.2	0.6	85.	49.	1.2	51.00	10.6	6.36	2.43	2.72	0.0	1.9	0.72		SV. PPV. I.
61	1141.2-1141.9	0.7	19.	9.7	1.0	13.30	9.8	6.86	2.46	2.73	0.0	4.1	0.70	I	SV. PPV. I.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX.	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 22 cont'd														
62	1141.9-1143.4	1.5	-0.1	-0.1	-0.1	-	3.8	5.70	2.67	2.76	0.0	26.4	-	Few SV. I.
63	1143.4-1144.7	1.3	0.01	-0.1	-0.1	0.01	5.0	6.50	2.63	2.77	0.0	20.0	-	Few SV. I.
64	1144.7-1145.9	1.2	**	110.	-0.1	132.00	3.7	4.44	2.65	2.75	0.0	27.0	-	1 Few SV. I.
65	1145.9-1147.2	1.3	0.10	0.09	-0.1	0.13	3.5	4.55	2.65	2.74	0.0	22.8	-	Few SV. I.
66	1147.2-1148.5	1.3	61.	-0.1	-0.1	79.30	4.4	5.72	2.64	2.76	0.0	9.1	-	1 Few SV. I.
67	1148.5-1149.0	0.5	2.5	-0.1	0.06	1.25	3.6	1.80	2.62	2.72	0.0	22.2	0.03	1 SV. PPV. I.
68	1149.0-1149.9	0.9	14.	-0.1	-0.1	12.60	7.5	6.75	2.55	2.75	0.0	2.7	-	SV. PPV. I.
69	1149.9-1151.0	1.1	11.	0.44	0.18	12.10	5.2	5.72	2.59	2.74	0.0	7.7	0.20	SV. PPV. I.
70	1151.0-1152.0	1.0	-0.1	-0.1	-0.1	-	7.3	7.30	2.57	2.77	0.0	8.2	-	Few PPV. I.
71	1152.0-1153.0	1.0	2.7	2.3	0.48	2.70	11.9	11.90	2.42	2.74	0.0	5.0	0.48	SV. PPV. I.
CORE NO. 23	1153' - 1174'	(Rec. 21.0')	(5 Boxes)											
72	1153.0-1154.0	1.0	1.8	-0.1	0.21	1.80	8.9	8.90	2.47	2.72	0.0	2.2	0.21	SV. PPV. I.
73	1154.0-1154.8	0.8	0.02	0.02	-0.1	0.02	6.1	4.88	2.58	2.74	0.0	3.3	-	SV. PPV. I.
74	1154.8-1155.4	0.6	46.	0.62	-0.1	27.60	6.6	3.96	2.53	2.71	0.0	6.1	-	slightly V. I.
75	1155.4-1156.1	0.7	0.19	0.12	-0.1	0.13	4.0	2.80	2.61	2.72	0.0	10.0	-	SV. PPV. I.
76	1156.1-1157.1	1.0	34.	22.	-0.1	34.00	6.5	6.50	2.54	2.72	0.0	3.1	-	Slightly V. I.
77	1157.1-1158.2	1.1	**	7100.	0.56	7810.00	9.2	10.12	2.47	2.72	0.0	2.2	0.62	V. I.
78	1158.2-1159.0	0.8	690.	458.	7.2	552.00	9.1	7.28	2.48	2.72	0.0	4.4	5.76	V. I.
-	1159.0-1159.7	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
79	1159.7-1160.4	0.7	0.96	0.13	-0.1	0.67	7.1	4.97	2.53	2.73	0.0	2.8	-	SV. PPV. I.
-	1160.4-1161.1	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
80	1161.1-1161.9	0.8	11.	4.4	0.28	8.80	4.7	3.76	-2.59	2.72	0.0	4.3	0.22	SV. PPV. I.
81	1161.9-1162.6	0.7	**	2000.	-0.1	1400.00	7.1	4.97	2.53	2.73	0.0	5.6	-	V. I.
-	1162.6-1163.4	0.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by aquitaine

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		Columns 76-77 (01)
CORE NO. 23 cont'd														
82	1163.4-1163.7	0.3	**	0.32	-0.1	0.10	9.9	2.97	2.45	2.72	0.0	4.0	-	V. I.
-	1163.7-1164.4	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
83	1164.4-1165.1	0.7	11.	8.6	8.9	7.70	8.3	5.81	2.50	2.73	0.0	7.2	6.23	Slightly V. I
84	1165.1-1166.5	1.4	0.12	-0.1	-0.1	0.17	3.6	5.04	2.61	2.71	0.0	5.6	-	SV. PPV. I.
85	1166.5-1167.7	1.2	1130.	0.12	-0.1	1356.00	5.9	7.08	2.59	2.75	0.0	10.2	-	Slightly V. I.
86	1167.7-1168.6	0.9	630.	221.0	16.	567.00	6.9	6.21	2.53	2.72	0.0	2.9	14.40	Slightly V. I.
87	1168.6-1169.7	1.1	2140.	807.	0.13	2354.00	9.6	10.56	2.52	2.78	0.0	4.2	0.14	V. I.
88	1169.7-1170.7	1.0	12.	11.	2.9	12.00	12.1	12.10	2.39	2.72	0.0	3.3	2.90	SV. PPV. I.
89	1170.7-1171.7	1.0	1.2	0.52	-0.1	1.20	9.7	9.70	2.49	2.76	0.0	2.1	-	SV. PPV. I.
90	1171.7-1173.0	1.3	0.41	0.39	-0.1	0.53	10.4	13.52	2.47	2.75	0.0	2.0	-	SV. PPV. I.
91	1173.0-1174.0	1.0	0.91	0.38	-0.1	0.91	7.6	7.60	2.55	2.76	0.0	5.3	-	Slightly V. I.
-	1174.0-1178.0	4.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled
CORE NO. 24 1178' - 1183' (Rec. 4.5') (1 Box)														
92	1178.0-1178.8	0.8	137.	57.	0.17	109.60	7.3	5.84	2.52	2.72	0.0	16.5	0.14	SV. PPV. I.
93	1178.8-1179.6	0.8	141.	122.	-0.1	112.80	6.7	5.36	2.55	2.74	0.0	9.0	-	SV. PPV. I.
94	1179.6-1180.3	0.7	350.	248.	-0.1	245.00	6.1	4.27	2.57	2.73	0.0	6.6	-	SV. PPV. I.
95	1180.3-1181.1	0.8	156.	1.4	5.4	124.80	6.4	5.12	2.56	2.73	0.0	3.1	4.32	SV. PPV. I.
96	1181.1-1182.1	1.0	740.	200.	17.	740.00	11.5	11.50	2.42	2.74	0.0	1.7	17.00	SV. PPV. I.
-	1182.1-1182.5	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Broken
-	1182.5-1183.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 25 1183' - 1203' (Rec. 20.0') (5 Boxes)														
97	1183.0-1184.2	1.2	2600.	3380.	7.1	4320.00	6.6	7.92	2.56	2.74	0.0	6.1	8.52	SV. PPV. I.
98	1184.2-1185.0	0.8	3.6	1.0	-0.1	2.88	8.8	7.04	2.49	2.72	0.0	9.1	-	SV. PPV. I.
-	1185.0-1185.5	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
														Columns 76-77 (01)
CORE NO. 25 cont'd														
99	1185.5-1186.5	1.0	42.	20.	0.11	42.00	12.4	12.40	2.43	2.77	0.0	8.1	0.11	V. I.
100	1186.5-1187.2	0.7	17.	16.	19.	11.90	15.4	10.78	2.33	2.76	0.0	24.6	13.30	V. I.
101	1187.2-1187.6	0.4	1610.	725.	454.	644.00	14.4	5.76	2.33	2.72	0.0	12.5	181.60	V. I.
-	1187.6-1188.1	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
102	1188.1-1188.7	0.6	1050.	520.	600.	630.00	12.0	7.20	2.38	2.70	0.0	10.0	360.00	V. I.
103	1188.7-1189.7	1.0	105.	81.	15.	105.00	17.5	17.50	2.24	2.72	0.0	4.6	15.00	V. I.
104	1189.7-1190.3	0.6	**	232.	53.	139.20	10.3	6.18	2.41	2.69	0.0	3.9	31.80	V. I.
105	1190.3-1191.2	0.9	267.	138.	18.	240.30	11.7	10.53	2.40	2.71	0.0	3.4	16.20	V. I.
106	1191.2-1192.0	0.8	70.	26.	0.84	56.00	9.9	7.92	2.44	2.71	0.0	4.0	0.67	V. I.
107	1192.0-1192.8	0.8	19400.	12100.	295.	15520.00	10.0	8.00	2.42	2.69	0.0	4.0	236.00	V. I.
108	1192.8-1193.8	1.0	8150.	3340.	1.2	8150.00	7.5	7.50	2.51	2.71	0.0	13.3	1.20	SV. PPV. I.
109	1193.8-1194.9	0.9	3320.	8.1	-0.1	2988.00	7.6	6.84	2.50	2.71	0.0	15.7	-	Slightly V.
110	1194.9-1195.2	0.5	2810.	2600.	69.	1405.00	13.8	6.90	2.34	2.71	0.0	4.4	34.50	V. I.
111	1195.2-1195.7	0.5	**	**	366.	15000.00	17.5	8.75	2.23	2.70	0.0	2.3	183.00	V. I.
112	1195.7-1196.6	0.9	**	**	88.	27000.00	11.9	10.71	2.38	2.70	0.0	3.4	79.20	V. I.
113	1196.6-1197.4	0.8	**	**	395.	24000.00	17.9	14.32	2.24	2.72	0.0	4.5	316.00	V.
114	1197.4-1198.0	0.6	1400.	280.	71.	840.00	11.9	7.14	2.39	2.72	0.0	1.7	42.60	SV. PPV. I.
115	1198.0-1198.6	0.6	3260.	248.	52.	1956.00	12.5	7.50	2.37	2.71	0.0	1.6	31.20	V. I.
116	1198.6-1199.3	0.7	**	1400.	201.	980.00	15.0	10.50	2.31	2.71	0.0	5.3	140.70	V. I.
117	1199.3-1200.1	0.8	160.	133.	34.	128.00	13.5	10.80	2.33	2.69	0.0	1.5	27.20	SV. PPV. I.
118	1200.1-1200.7	0.6	6420.	4230.	674.	3852.00	17.6	10.56	2.23	2.71	0.0	6.8	404.40	SV. PPV. I.
119	1200.7-1201.3	0.6	225.	178.	0.83	135.00	16.2	9.72	2.31	2.75	0.0	8.6	0.50	SV. PPV. I.
120	1201.3-1202.0	0.7	17700.	10300.	2820.	12390.00	22.1	15.47	2.13	2.73	0.0	1.8	1974.00	V. I.
121	1202.0-1202.5	0.5	229.	79.	25.	114.50	18.7	9.35	2.21	2.72	0.0	2.1	12.50	SV. PPV. I.
-	1202.5-1203.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Rubble

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75
CORE NO. 26 1203' - 1225' (Rec. 21.0') (5 Boxes)														Columns 76-77 (01)
122	1203.0-1203.9	0.9	12600.	1930.	6.9	11340.00	11.5	10.35	2.38	2.69	0.0	1.7	6.21	SV. PPV. I.
123	1203.9-1204.7	0.8	63.	61.	-0.1	50.40	8.1	6.48	2.49	2.71	0.0	2.0	-	SV. PPV. I.
124	1204.7-1205.5	0.8	2280.	200.	7.0	1824.00	9.4	7.52	2.45	2.70	0.0	10.6	5.60	V. I.
125	1205.5-1206.2	0.7	29800.	275.	182.	20860.00	13.6	9.52	2.35	2.72	0.0	8.1	127.40	V. I.
126	1206.2-1207.2	1.0	3.6	2.3	1.3	3.60	12.4	12.40	2.39	2.72	0.0	6.5	1.30	SV. PPV. I.
127	1207.2-1208.0	0.8	14100.	8500.	2060.	11280.00	22.8	18.24	2.10	2.72	0.0	1.7	1648.00	V. I.
128	1208.0-1208.9	0.9	0.90	0.78	0.08	0.81	9.7	8.73	2.44	2.70	0.0	20.7	0.07	SV. PPV. I.
129	1208.9-1209.5	0.6	118.	49.	1.5	70.80	14.1	8.46	2.32	2.70	0.0	1.4	0.90	V. I.
130	1209.5-1210.5	1.0	2380.	1280.	1.8	2380.00	15.1	15.10	2.29	2.70	0.0	1.3	1.80	V. I.
131	1210.5-1211.4	0.9	2.8	2.4	4.6	2.52	10.8	9.72	2.41	2.70	0.0	9.3	4.14	SV. PPV. I.
132	1211.4-1212.1	0.7	41.	11.	11.	28.70	15.2	10.64	2.30	2.71	0.0	3.9	7.70	Slightly V. I.
133	1212.1-1213.3	1.2	6.0	5.8	4.1	7.20	12.3	14.76	2.41	2.74	0.0	14.6	4.92	SV. PPV. I.
134	1213.3-1214.2	0.9	1390.	1190.	249.	1251.00	14.7	13.23	2.30	2.70	0.0	9.5	224.10	V. I.
135	1214.2-1214.7	0.5	26600.	26600.	6000.	13300.00	19.2	9.60	2.17	2.69	0.0	4.2	3000.00	V. I.
136	1214.7-1215.8	1.1	18.	18.	0.85	19.80	14.0	15.40	2.37	2.75	0.0	11.4	0.94	SV. PPV. I.
137	1215.8-1216.8	1.0	990.	650.	2.4	990.00	14.1	14.10	2.36	2.75	0.0	4.3	2.40	Slightly V. I.
138	1216.8-1217.5	0.7	175.	81.	15.	122.50	20.8	14.56	2.19	2.77	0.0	7.7	10.50	V. I.
139	1217.5-1218.1	0.6	465.	308.	84.	279.00	19.0	11.40	2.21	2.73	0.0	7.4	50.40	V.I.
-	1218.1-1218.5	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
140	1218.5-1219.2	0.7	655.	368.	29.	458.50	16.2	11.34	2.31	2.76	0.0	5.5	20.30	V.I.
141	1219.2-1220.1	0.9	5480.	2360.	6.6	4932.00	13.7	12.33	2.36	2.74	0.0	17.5	5.94	V.I.
142	1220.1-1220.9	0.8	35.	31.	0.37	28.00	9.5	7.60	2.48	2.74	0.0	8.4	0.30	V. I.
143	1220.9-1221.5	0.6	53.	17.	1.1	31.80	12.5	7.50	2.39	2.73	0.0	3.2	0.66	V. I.
144	1221.5-1222.3	0.8	229.	12.	0.18	183.20	8.7	6.96	2.47	2.70	0.0	2.3	0.14	V. I.
145	1222.3-1223.2	0.9	79.	18.	17.	71.10	7.8	7.02	2.50	2.71	0.0	5.1	15.30	V. I.
146	1223.2-1224.0	0.8	163.	75.	7.2	130.40	6.9	5.52	2.53	2.71	0.0	5.8	5.76	V. I.
-	1224.0-1225.0	1.0	-1.0	-1.0	-1.0	--	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75 Columns 76-77 (01)	
CORE NO. 27 1225' - 1246' (Rec. 20.0') (5 Boxes)														
147	1225.0-1225.9	0.9	74.	25.	-0.1	66.60	9.7	8.73	2.44	2.71	0.0	4.1	-	V. I.
148	1225.9-1226.7	0.8	9.8	9.6	-0.1	7.84	6.5	5.20	2.53	2.71	0.0	3.1	-	V. I.
149	1226.7-1227.6	0.9	**	37.	1.6	33.30	8.5	7.65	2.47	2.70	0.0	4.7	1.44	V. I.
150	1227.6-1228.3	0.7	68.	65.	-0.1	47.60	7.7	5.39	2.48	2.69	0.0	7.8	-	V. I.
151	1228.3-1228.9	0.6	264.	42.	37.	158.40	10.2	6.12	2.40	2.68	0.0	5.9	22.20	V. I.
152	1228.9-1229.8	0.9	13.	5.6	0.59	11.70	9.0	8.10	2.45	2.70	0.0	17.8	0.53	SV. PPV. I.
153	1229.8-1230.7	0.9	42.	26.	-0.1	37.80	5.3	4.77	2.57	2.71	0.0	11.3	-	V. I.
154	1230.7-1231.8	1.1	88.	0.92	-0.1	96.80	4.8	5.28	2.57	2.71	0.0	12.5	-	V. I.
155	1231.8-1232.7	0.9	**	593.	-0.1	533.70	6.6	5.94	2.53	2.71	0.0	6.1	-	V. I.
156	1232.7-1233.7	1.0	1610.	0.45	-0.1	1610.00	5.8	5.80	2.55	2.71	0.0	3.4	-	V. I.
157	1233.7-1234.6	0.9	0.22	0.07	-0.1	0.20	3.1	2.79	2.62	2.71	0.0	12.9	-	SV. PPV I.
158	1234.6-1235.5	0.9	0.61	0.27	-0.1	0.55	4.6	4.14	2.58	2.71	0.0	4.4	-	SV. PPV. I.
159	1235.5-1236.5	1.0	14.	11.	-0.1	14.00	3.9	3.90	2.59	2.69	0.0	10.3	-	SV. PPV. I. sty.
160	1236.5-1237.7	1.2	0.59	0.56	-0.1	0.71	1.8	2.16	2.64	2.69	0.0	44.4	-	SV. PPV. I.
161	1237.7-1238.6	0.9	65.	9.8	-0.1	58.50	6.0	5.40	2.53	2.69	0.0	3.3	-	SV. PPV. I.
162	1238.6-1239.6	1.0	396.	3.5	-0.1	396.00	8.8	8.80	2.46	2.69	0.0	2.3	-	SV. PPV. I.
163	1239.6-1240.5	0.9	1780.	1640.	53.	1602.00	8.8	7.92	2.44	2.68	0.0	6.8	47.70	V. I.
164	1240.5-1241.2	0.7	555.	503.	8.3	388.50	8.3	5.81	2.46	2.69	0.0	2.4	5.81	V. I.
165	1241.2-1241.7	0.5	82.	29.	0.14	41.00	8.3	4.15	2.47	2.69	0.0	9.6	0.07	V. I.
-	1241.7-1242.3	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by client
166	1242.3-1243.1	0.8	18.	18.	0.54	14.40	5.1	4.08	2.57	2.71	0.0	11.8	0.43	V. I.
167	1243.1-1244.0	0.9	**	35.	0.23	31.50	6.3	5.67	2.52	2.69	0.0	6.4	0.21	V. I.
168	1244.0-1245.0	1.0	1840.	0.17	-0.1	1840.00	4.0	4.00	2.58	2.69	0.0	10.0	-	Slightly V. I.
-	1245.0-1246.0	1.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	

Columns 76-77 (01)

CORE NO. 28 1294' - 1315' (Rec. 20.5') (5 Boxes)

1	1294.0-1295.0	1.0	3.0	-1.0	-1.0	3.00	18.8	18.80	-1.0	-1.0	Trace	21.6	-	1. PPV.
2	1295.0-1295.8	0.8	0.2	-1.0	-1.0	0.16	13.6	10.88	-1.0	-1.0	Trace	19.0	-	1. PPV.
3	1295.8-1296.5	0.7	0.8	-1.0	-1.0	0.56	16.7	11.69	-1.0	-1.0	Trace	21.6	-	1. PPV.
4	1296.5-1297.3	0.8	9.2	-1.0	-1.0	7.36	17.4	13.92	-1.0	-1.0	Trace	10.9	-	1. PPV.
5	1297.3-1298.1	0.8	3.1	-1.0	-1.0	2.48	18.3	14.64	-1.0	-1.0	Trace	5.8	-	1. Few PPV.
6	1298.1-1298.4	0.3	0.4	-1.0	-1.0	0.12	18.8	5.64	-1.0	-1.0	Trace	29.9	-	1. PPV.
7	1298.4-1299.2	0.8	0.2	-1.0	-1.0	0.16	7.0	5.60	-1.0	-1.0	Trace	44.4	-	1. PPV.
8	1299.2-1299.7	0.5	7.4	-1.0	-1.0	3.70	20.2	10.10	-1.0	-1.0	Trace	36.0	-	1. PPV.
9	1299.7-1300.2	0.5	10.	-1.0	-1.0	5.00	20.6	10.30	-1.0	-1.0	Trace	17.9	-	1. PPV.
10	1300.2-1301.1	0.9	5.7	-1.0	-1.0	5.13	10.5	9.45	-1.0	-1.0	Trace	37.3	-	1. PPV.
11	1301.1-1301.7	0.6	14.	-1.0	-1.0	8.40	21.0	12.60	-1.0	-1.0	Trace	15.6	-	1. PPV.
12	1301.7-1302.3	0.6	1.1	-1.0	-1.0	0.66	17.2	10.32	-1.0	-1.0	Trace	14.3	-	1. PPV.
13	1302.3-1303.4	1.1	2.5	-1.0	-1.0	2.75	16.7	18.37	-1.0	-1.0	Trace	34.1	-	1. PPV.
14	1303.4-1304.2	0.8	0.3	-1.0	-1.0	0.24	9.3	7.44	-1.0	-1.0	Trace	41.4	-	1. Few PPV.
15	1304.2-1305.5	1.3	0.5	-1.0	-1.0	0.65	11.5	14.95	-1.0	-1.0	Trace	31.7	-	1.
16	1305.5-1306.1	0.6	3.5	-1.0	-1.0	2.10	14.4	8.64	-1.0	-1.0	Trace	23.2	-	1. PPV.
17	1306.1-1306.8	0.7	0.2	-1.0	-1.0	0.14	13.0	9.10	-1.0	-1.0	Trace	22.7	-	1. PPV.
18	1306.8-1307.7	0.9	1.3	-1.0	-1.0	1.17	12.3	11.07	-1.0	-1.0	Trace	13.9	-	1. PPV.
19	1307.7-1308.5	0.8	0.4	-1.0	-1.0	0.32	10.4	8.32	-1.0	-1.0	Trace	21.5	-	1.
20	1308.5-1309.2	0.7	0.3	-1.0	-1.0	0.21	9.8	6.86	-1.0	-1.0	Trace	19.0	-	1.
21	1309.2-1310.1	0.9	0.7	-1.0	-1.0	0.63	12.1	10.89	-1.0	-1.0	Trace	29.1	-	1. PPV.
22	1310.1-1311.1	1.0	-0.1	-1.0	-1.0	-	6.2	6.20	-1.0	-1.0	Trace	23.3	-	1.
23	1311.1-1312.3	1.2	0.1	-1.0	-1.0	0.12	8.3	9.96	-1.0	-1.0	Trace	19.7	-	1.
24	1312.3-1313.6	1.3	0.3	-1.0	-1.0	0.39	7.9	10.27	-1.0	-1.0	Trace	12.3	-	1.
25	1313.6-1314.5	0.9	0.3	-1.0	-1.0	0.27	9.8	8.82	-1.0	-1.0	Trace	9.7	-	1.
-	1314.5-1315.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. FEET	POROSITY PER CENT	POROSITY FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. x FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 29 1315' - 1335' (Rec. 20.0') (5 Boxes)														
26	1315.0-1316.2	1.2	0.7	-1.0	-1.0	0.84	10.4	12.48	-1.0	-1.0	Trace	13.8	-	1.
27	1316.2-1317.1	0.9	0.3	-1.0	-1.0	0.27	6.9	6.21	-1.0	-1.0	Trace	13.8	-	1.
28	1317.1-1318.4	1.3	-0.1	-1.0	-1.0	-	5.7	7.41	-1.0	-1.0	Trace	29.6	-	1.
-	1318.4-1319.6	1.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
29	1319.6-1320.3	0.7	0.1	-1.0	-1.0	0.07	6.0	4.20	-1.0	-1.0	Trace	16.9	-	1.
30	1320.3-1320.8	0.5	-0.1	-1.0	-1.0	-	5.2	2.60	-1.0	-1.0	Trace	16.1	-	1.
31	1320.8-1321.7	0.9	-0.1	-1.0	-1.0	-	6.1	5.49	-1.0	-1.0	Trace	12.8	-	1.
32	1321.7-1322.5	0.8	0.1	-1.0	-1.0	0.08	5.6	4.48	-1.0	-1.0	Trace	17.4	-	1. Scat. PPV.
33	1322.5-1323.4	0.9	-0.1	-1.0	-1.0	-	3.7	3.33	-1.0	-1.0	Trace	20.7	-	Few PPV.
34	1323.4-1324.5	1.1	-0.1	-1.0	-1.0	-	4.2	4.62	-1.0	-1.0	Trace	34.8	-	1.
35	1324.5-1325.7	1.2	-0.1	-1.0	-1.0	-	3.3	3.96	-1.0	-1.0	Trace	33.3	-	1.
-	1325.7-1327.3	1.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
36	1327.3-1328.1	0.8	-0.1	-1.0	-1.0	-	3.8	3.04	-1.0	-1.0	Trace	42.9	-	1.
37	1328.1-1329.1	1.0	-0.1	-1.0	-1.0	-	2.9	2.90	-1.0	-1.0	Trace	54.5	-	1. Scat. PPV.
38	1329.1-1330.2	1.1	-0.1	-1.0	-1.0	-	3.6	3.96	-1.0	-1.0	Trace	25.0	-	1.
-	1330.2-1330.6	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
39	1330.6-1331.5	0.9	-0.1	-1.0	-1.0	-	6.3	5.67	-1.0	-1.0	Trace	14.3	-	1.
40	1331.5-1332.0	0.5	-0.1	-1.0	-1.0	-	4.6	2.30	-1.0	-1.0	Trace	50.0	-	1. Scat. PPV.
41	1332.0-1333.0	1.0	-0.1	-1.0	-1.0	-	2.9	2.90	-1.0	-1.0	Trace	37.5	-	1.
42	1333.0-1334.2	1.2	-0.1	-1.0	-1.0	-	3.7	4.44	-1.0	-1.0	Trace	37.5	-	1. Scat. PPV.
43	1334.2-1335.0	0.8	-0.1	-1.0	-1.0	-	3.8	3.04	-1.0	-1.0	Trace	38.1	-	1.
CORE NO. 30 1335' - 1357' (Rec. 19.0') (4 Boxes)														
44	1335.0-1336.0	1.0	-0.1	-1.0	-1.0	-	3.8	3.80	-1.0	-1.0	Trace	27.6	-	1.
45	1336.0-1337.4	1.4	-0.1	-1.0	-1.0	-	3.2	4.48	-1.0	-1.0	Trace	61.5	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.		VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)			

Columns 76-77 (01)

NOTE: & - Full Diameter Analysis

CORE NO. 30 (Cont'd.)

-	1337-4-1337.9	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
46	1337.9-1339.1	1.2	0.1	-1.0	-1.0	0.12	6.0	7.20	-1.0	-1.0	Trace	8.6	-		1. Few PPV.
-	1339.1-1339.6	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
47	1339.6-1340.1	0.5	0.2	-1.0	-1.0	0.10	8.0	4.00	-1.0	-1.0	Trace	8.0	-		1. Few PPV.
48	1340.1-1340.9	0.8	-0.1	-1.0	-1.0	-	4.1	3.28	-1.0	-1.0	Trace	14.0	-		1.
49	1340.9-1341.9	1.0	-0.1	-1.0	-1.0	-	3.4	3.40	-1.0	-1.0	Trace	40.0	-		1. Scat. PPV.
50	1341.9-1343.1	1.2	-0.1	-1.0	-1.0	-	2.9	3.48	-1.0	-1.0	Trace	47.1	-		1.
51	1343.1-1343.8	0.7	-0.1	-1.0	-1.0	-	3.7	2.59	-1.0	-1.0	Trace	32.0	-		1. Scat. PPV.
52	1343.8-1344.6	0.8	-0.1	-1.0	-1.0	-	2.0	1.60	-1.0	-1.0	Trace	66.7	-		1.
-	1344.6-1345.2	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Dense
53	1345.2-1346.0	0.8	-0.1	-1.0	-1.0	-	2.7	2.16	-1.0	-1.0	Trace	50.0	-		1. Scat. PPV.
-	1346.0-1346.4	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Dense
54	1346.4-1347.2	0.8	-0.1	-1.0	-1.0	-	2.5	2.00	-1.0	-1.0	Trace	54.6	-		1.
-	1347.2-1348.1	0.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Dense
-	1348.1-1348.7	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
-	1348.7-1352.0	3.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Dense
55	1352.0-1352.6	0.6	-0.1	-1.0	-1.0	-	3.0	1.80	-1.0	-1.0	Trace	42.9	-		1.
56	1352.6-1354.0	1.4	-0.1	-1.0	-1.0	-	2.1	2.94	-1.0	-1.0	Trace	54.5	-		1.
-	1354.0-1357.0	3.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Lost core
-	1357.0-1368.0	11.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Drilled

CORE NO. 31 1368' - 1388' (Rec. 19.0') (4 Boxes)

&57	1368.0-1368.6	0.6	7.6	7.3	1.1	4.56	9.2	5.52	2.44	2.69	Trace	28.6	0.660	1	SV. 1. Sty.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.		VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)			
															Columns 76-77 (01)
CORE NO. 31 (Cont'd.)															
58	1368.6-1369.4	0.8	-0.1	-1.0	-1.0	-	7.8	6.24	-1.0	-1.0	11.1	17.7	-		1. Few SV.
&59	1369.4-1370.2	0.8	42.	28.	1.3	33.6	9.3	7.44	2.44	2.69	Trace	27.6	1.04	1	Few SV. 1.Sty.
&60	1370.2-1371.3	1.1	1.5	0.20	-0.1	1.65	7.1	7.81	2.51	2.70	0.0	39.5	-	1	Few SV.1. Sty.
-	1371.3-1371.8	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
&61	1371.8-1372.6	0.8	2.3	0.28	0.50	1.84	4.3	3.44	2.58	2.70	Trace	38.4	0.400	1	Few SV. 1.Sty.
&62	1372.6-1373.3	0.7	0.62	0.59	0.12	0.434	10.1	7.07	2.43	2.71	Trace	38.2	0.084		SV. 1.
&63	1373.3-1374.1	0.8	4.4	2.0	1.0	3.52	15.4	12.32	2.27	2.69	Trace	16.4	0.80	1	1. PPV.SV.Sty.
64	1374.1-1375.1	1.0	0.6	-1.0	-1.0	0.60	14.5	14.50	-1.0	-1.0	Trace	16.6	-		1. Few PPV.
65	1375.1-1375.6	0.5	0.3	-1.0	-1.0	0.15	8.3	4.15	-1.0	-1.0	Trace	17.6	-		1. PPV.
66	1375.6-1376.4	0.8	-0.1	-1.0	-1.0	-	5.5	4.40	-1.0	-1.0	Trace	22.2	-		1. PPV.
67	1376.4-1377.1	0.7	0.4	-1.0	-1.0	0.28	6.8	4.76	-1.0	-1.0	0.0	36.4	-		1. Few PPV.
68	1377.1-1378.1	1.0	-0.1	-1.0	-1.0	-	4.9	4.90	-1.0	-1.0	Trace	33.4	-		1.
69	1378.1-1378.9	0.8	-0.1	-1.0	-1.0	-	7.2	5.76	-1.0	-1.0	0.0	23.8	-		1.
70	1378.9-1379.9	1.0	-0.1	-1.0	-1.0	-	5.6	5.60	-1.0	-1.0	0.0	13.3	-		1.
71	1379.9-1380.7	0.8	0.1	-1.0	-1.0	0.08	8.4	6.72	-1.0	-1.0	0.0	14.1	-		1.
72	1380.7-1381.8	1.1	-0.1	-1.0	-1.0	-	7.7	8.47	-1.0	-1.0	0.0	20.6	-		1.
73	1381.8-1382.9	1.1	-0.1	-1.0	-1.0	-	7.0	7.70	-1.0	-1.0	Trace	31.9	-		1. PPV.
-	1382.9-1383.4	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
74	1383.4 1384.1	0.7	-0.1	-1.0	-1.0	-	5.6	3.92	-1.0	-1.0	Trace	22.9	-		1.
75	1384.1-1384.7	0.6	-0.1	-1.0	-1.0	-	5.3	3.18	-1.0	-1.0	Trace	21.2	-		1. PPV.
76	1384.7-1385.1	0.4	11.	-1.0	-1.0	4.40	7.6	3.04	-1.0	-1.0	-1.0	-1.0	-		1. PPV.
-	1385.1-1385.6	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
77	1385.6-1386.1	0.5	0.1	-1.0	-1.0	0.05	7.5	3.75	-1.0	-1.0	-1.0	-1.0	-		1. PPV.
78	1386.1-1387.0	0.9	0.4	-1.0	-1.0	0.36	9.9	8.91	-1.0	-1.0	Trace	16.3	-		1. PPV.
-	1387.0-1388.0	1.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Lost core
-	1388.0-1422.0	34.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Drilled

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68	70-73 (72)	74 75	
													Columns 76-77 (01)	
CORE NO. 32 1422' - 1436.5' (Rec. 14.5' (3 Boxes)														
-	1422.0-1429.1	7.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
79	1429.1-1430.2	1.1	-0.1	-1.0	-1.0	-	12.0	13.20	-1.0	-1.0	18.6	72.0	-	1.
80	1430.2-1431.0	0.8	-0.1	-1.0	-1.0	-	13.7	10.96	-1.0	-1.0	8.5	79.5	-	1.
-	1431.0-1436.5	5.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 33 1436.5' - 1456.0' (Rec. 20.0') (5 Boxes)														
-	1436.5-1439.8	3.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	1439.8-1440.5	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
-	1440.5-1443.2	2.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	1443.2-1444.2	1.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
81	1444.2-1445.0	0.8	-0.1	-1.0	-1.0	-	3.1	2.48	-1.0	-1.0	7.1	34.3	-	1.
82	1445.0-1446.3	1.3	-0.1	-1.0	-1.0	-	6.0	7.80	-1.0	-1.0	Trace	71.4	-	1.
83	1446.3-1447.8	1.5	0.3	-1.0	-1.0	0.45	4.6	6.90	-1.0	-1.0	Trace	80.0	-	1 1.
84	1447.8-1449.2	1.4	-0.1	-1.0	-1.0	-	6.5	9.10	-1.0	-1.0	Trace	72.1	-	1.
-	1449.2-1450.7	1.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
85	1450.7-1451.3	0.6	-0.1	-1.0	-1.0	-	6.8	4.08	-1.0	-1.0	Trace	50.0	-	1.
86	1451.3-1452.6	1.3	-0.1	-1.0	-1.0	-	7.3	9.49	-1.0	-1.0	8.1	37.1	-	1.
87	1452.6-1453.3	0.7	-0.1	-1.0	-1.0	-	7.0	4.90	-1.0	-1.0	Trace	66.6	-	1.
88	1453.3-1454.2	0.9	-0.1	-1.0	-1.0	-	4.7	4.23	-1.0	-1.0	Trace	78.6	-	1.
89	1454.2-1455.0	0.8	-0.1	-1.0	-1.0	-	4.2	3.36	-1.0	-1.0	Trace	33.4	-	1.
90	1455.0-1455.7	0.7	-0.1	-1.0	-1.0	-	3.0	2.10	-1.0	-1.0	0.0	53.4	-	1.
91	1455.7-1456.5	0.8	-0.1	-1.0	-1.0	-	3.9	3.12	-1.0	-1.0	25.8	54.8	-	1.
-	1456.5-1493.0	36.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION	74	75
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)				

Columns 76-77 (01)

CORE NO. 34 1493' - 1513' (Rec. 20.0') 5 Boxes)

-	1493.0-1493.3	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense		
-	1493.3-1494.1	0.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client		
-	1494.1-1495.4	1.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense		
92	1495.4-1496.1	0.7	1.0	-1.0	-1.0	0.70	5.4	3.78	-1.0	-1.0	29.6	62.9	-	1.		
93	1496.1-1496.8	0.7	-0.1	-1.0	-1.0	-	6.0	4.20	-1.0	-1.0	14.3	77.2	-	1.		
94	1496.8-1497.7	0.9	-0.1	-1.0	-1.0	-	7.1	6.39	-1.0	-1.0	12.8	64.1	-	1.		
95	1497.7-1498.3	0.6	-0.1	-1.0	-1.0	-	6.6	3.96	-1.0	-1.0	17.9	57.1	-	1. Few PPV.		
-	1498.3-1498.8	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client		
96	1498.8-1499.6	0.8	0.1	-1.0	-1.0	0.08	9.8	7.84	-1.0	-1.0	Trace	60.1	-	1. Few PPV.		
97	1499.6-1500.4	0.8	1.5	-1.0	-1.0	1.20	11.9	9.52	-1.0	-1.0	6.8	50.7	-	1. PPV.		
98	1500.4-1501.5	1.1	-0.1	-1.0	-1.0	-	6.6	7.26	-1.0	-1.0	6.3	50.0	-	1. Few PPV.		
99	1501.5-1502.4	0.9	-0.1	-1.0	-1.0	-	8.2	7.38	-1.0	-1.0	10.4	72.9	-	1.		
100	1502.4-1503.2	0.8	-0.1	-1.0	-1.0	-	7.1	5.68	-1.0	-1.0	Trace	44.6	-	1.		
101	1503.2-1503.9	0.7	0.1	-1.0	-1.0	0.07	7.5	5.25	-1.0	-1.0	Trace	54.4	-	1. Few PPV.		
102	1503.9-1505.0	1.1	0.3	-1.0	-1.0	0.33	9.6	10.56	-1.0	-1.0	Trace	42.5	-	1. Few PPV.		
103	1505.0-1506.0	1.0	-0.1	-1.0	-1.0	-	5.2	5.20	-1.0	-1.0	6.6	56.6	-	1. Few PPV.		
-	1506.0-1508.8	2.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense		
104	1508.8-1509.8	1.0	-0.1	-1.0	-1.0	-	4.0	4.00	-1.0	-1.0	Trace	72.0	-	1.		
&105	1509.8-1511.0	1.2	2.5	0.48	0.09	3.00	5.5	6.60	2.51	2.65	Trace	67.3	0.108	1. PPV. Few SV. Sty.	1	
106	1511.0-1511.9	0.9	-0.1	-1.0	-1.0	-	3.5	3.15	-1.0	-1.0	Trace	80.0	-	1.		
&107	1511.9-1513.0	1.1	2.1	1.7	-0.1	2.31	5.7	6.27	2.50	2.65	Trace	17.2	-	1. PPV. Few SV. Sty.	1	
-	1513.0-1543.0	30.0	-1.0	-	-	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled		

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 35 1543' - 1563' (Rec. 20.0') (5 Boxes)														
-	1543.0-1546.2	3.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
108	1546.2-1546.9	0.7	-0.1	-1.0	-1.0	-	1.2	0.84	-1.0	-1.0	Trace	68.7	-	1.
-	1546.9-1549.6	2.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
109	1549.6-1550.3	0.7	-0.1	-1.0	-1.0	-	2.6	1.82	-1.0	-1.0	Trace	68.0	-	1. Scat. PPV.
110	1550.3-1550.9	0.6	-0.1	-1.0	-1.0	-	3.0	1.80	-1.0	-1.0	Trace	81.1	-	1. Few Scat. PPV.
111	1550.9-1551.6	0.7	0.1	-1.0	-1.0	0.07	4.5	3.15	-1.0	-1.0	0.0	60.0	-	1.
112	1551.6-1552.1	0.5	-0.1	-1.0	-1.0	-	6.1	3.05	-1.0	-1.0	0.0	57.1	-	1.
113	1552.1-1552.9	0.8	-0.1	-1.0	-1.0	-	4.7	3.76	-1.0	-1.0	0.0	55.8	-	1. PPV.
-	1552.9-1563.0	10.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	1563.0-1605.0	42.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled
CORE NO. 36 1605' - 1625' (Rec. 20.0') (5 Boxes)														
-	1605.0-1605.9	0.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
114	1605.9-1606.8	0.9	-0.1	-1.0	-1.0	-	2.2	1.98	-1.0	-1.0	5.3	47.9	-	1.
115	1606.8-1607.6	0.8	-0.1	-1.0	-1.0	-	6.9	5.52	-1.0	-1.0	Trace	78.9	-	1.
116	1607.6-1608.2	0.6	-0.1	-1.0	-1.0	-	6.9	4.14	-1.0	-1.0	4.2	49.2	-	1.
117	1608.2-1608.9	0.7	-0.1	-1.0	-1.0	-	1.5	1.05	-1.0	-1.0	6.4	69.2	-	1.
118	1608.9-1609.8	0.9	-0.1	-1.0	-1.0	-	7.9	7.11	-1.0	-1.0	7.1	75.7	-	1. Few PPV.
-	1609.8-1610.3	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
119	1610.3-1611.0	0.7	0.3	-1.0	-1.0	0.27	7.8	5.46	-1.0	-1.0	Trace	57.0	-	1. Few PPV.
120	1611.0-1611.7	0.7	-0.1	-1.0	-1.0	-	5.5	3.85	-1.0	-1.0	Trace	37.0	-	1. Few PPV.
-	1611.7-1623.3	11.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
121	1623.3-1624.3	1.0	-0.1	-1.0	-1.0	-	4.0	4.00	-1.0	-1.0	Trace	54.1	-	1. Few PPV.
-	1624.3-1625.0	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	PERMEABILITY TO AIR HORIZONTAL K 90°	PERMEABILITY TO AIR VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 38 1656' - 1674' (Rec. 18.0') (4 Boxes)														
-	1656.0-1663.6	7.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	1663.6-1664.2	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
121A	1664.2-1664.8	0.6	-0.1	-1.0	-1.0	-	4.0	2.40	-1.0	-1.0	Trace	67.5	-	1.
121B	1664.8-1665.5	0.7	-0.1	-1.0	-1.0	-	2.2	1.54	-1.0	-1.0	Trace	40.4	-	Few PPV.
-	1665.5-1666.1	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
-	1666.1-1666.3	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
121C	1666.3-1667.3	1.0	-0.1	-1.0	-1.0	-	3.0	3.00	-1.0	-1.0	Trace	42.3	-	1.
121D	1667.3-1667.9	0.6	-0.1	-1.0	-1.0	-	5.0	3.00	-1.0	-1.0	Trace	35.7	-	1.
121E	1667.9-1668.4	0.5	-0.1	-1.0	-1.0	-	5.1	2.55	-1.0	-1.0	Trace	55.2	-	1.
121F	1668.4-1668.8	0.4	-0.1	-1.0	-1.0	-	1.8	0.72	-1.0	-1.0	Trace	59.9	-	1.
121G	1668.8-1669.5	0.7	-0.1	-1.0	-1.0	-	2.2	1.54	-1.0	-1.0	Trace	58.0	-	1.
121H	1669.5-1669.8	0.3	-0.1	-1.0	-1.0	-	2.7	0.81	-1.0	-1.0	Trace	60.8	-	1.
&121I	1669.8-1671.1	1.3	-0.1	-0.1	-0.1	-	1.5	1.95	2.69	2.73	Trace	68.2	-	1. Few PPV. A.
121J	1671.1-1671.6	0.5	-0.1	-1.0	-1.0	-	5.8	2.90	-1.0	-1.0	Trace	57.7	-	1.
121K	1671.6-1672.3	0.7	-0.1	-1.0	-1.0	-	3.9	2.73	-1.0	-1.0	Trace	57.8	-	1.
121L	1672.3-1672.7	0.4	-0.1	-1.0	-1.0	-	3.5	1.40	-1.0	-1.0	Trace	58.3	-	1.
121M	1672.7-1673.4	0.7	-0.1	-1.0	-1.0	-	1.6	1.12	-1.0	-1.0	Trace	51.9	-	1.
121N	1673.4-1673.6	0.2	-0.1	-1.0	-1.0	-	3.2	0.64	-1.0	-1.0	Trace	62.4	-	1.
121O	1673.6-1674.0	0.4	-0.1	-1.0	-1.0	-	6.0	2.40	-1.0	-1.0	10.0	42.0	-	1.
CORE NO. 39 1674' - 1694' (Rec. 20.0') (5 Boxes)														
122	1674.0-1674.6	0.6	0.2	-1.0	-1.0	0.12	4.5	2.70	-1.0	-1.0	0.0	68.8	-	1. PPV.
123	1674.6-1675.3	0.7	0.3	-1.0	-1.0	0.21	4.5	3.15	-1.0	-1.0	0.0	67.2	-	1. PPV.
124	1675.3-1675.8	0.5	0.3	-1.0	-1.0	0.15	5.9	2.95	-1.0	-1.0	Trace	64.3	-	1. PPV.
-	1675.8-1676.3	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 39 (Cont'd.)														
125	1676.3-1676.8	0.5	0.3	-1.0	-1.0	0.15	5.1	2.55	-1.0	-1.0	Trace	58.2	-	L. PPV.
126	1676.8-1677.4	0.6	-0.1	-1.0	-1.0	-	2.5	1.50	-1.0	-1.0	Trace	71.5	-	1. Few PPV.
127	1677.4-1678.1	0.7	-0.1	-1.0	-1.0	-	4.1	2.87	-1.0	-1.0	Trace	77.5	-	1. Few PPV.
128	1678.1-1679.0	0.9	-0.1	-1.0	-1.0	-	1.7	1.53	-1.0	-1.0	Trace	56.9	-	1. Few PPV.
128A	1679.0-1679.9	0.9	-0.1	-1.0	-1.0	-	2.5	2.25	-1.0	-1.0	Trace	70.8	-	1.
128B	1679.9-1680.5	0.6	129.	0.03	0.50	77.4	2.5	1.50	2.68	2.74	Trace	72.4	0.300	1 1.PPV. SV. A.
128C	1680.5-1681.8	1.3	-0.1	-1.0	-1.0	-	6.2	8.06	-1.0	-1.0	0.0	72.9	-	1.
-	1681.8-1687.7	5.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
128D	1687.7-1688.3	0.6	-0.1	-1.0	-1.0	-	3.1	1.86	-1.0	-1.0	Trace	45.3	-	1.
128E	1688.3-1688.9	0.6	-0.1	-1.0	-1.0	-	8.2	4.92	-1.0	-1.0	0.0	71.0	-	1.
128F	1688.9-1689.4	0.5	0.5	-1.0	-1.0	0.25	10.3	5.15	-1.0	-1.0	0.0	56.5	-	1. PPV.
&128G	1689.4-1690.2	0.8	0.26	0.16	-0.1	0.208	11.5	9.20	2.50	2.82	0.0	40.1	-	1. Few SV. Sty.A.
128H	1690.2-1690.7	0.5	0.7	-1.0	-1.0	0.35	10.3	5.15	-1.0	-1.0	0.0	47.7	-	1. PPV.
128-I	1690.7-1691.2	0.5	-0.1	-1.0	-1.0	-	12.6	6.30	-1.0	-1.0	0.0	60.7	-	1.
128J	1691.2-1691.7	0.5	-0.1	-1.0	-1.0	-	10.1	5.05	-1.0	-1.0	0.0	57.3	-	1.
128K	1691.7-1692.5	0.8	0.3	-1.0	-1.0	-	11.5	9.20	-1.0	-1.0	0.0	53.4	-	1.
128L	1692.5-1693.0	0.5	-0.1	-1.0	-1.0	-	6.3	3.15	-1.0	-1.0	Trace	42.6	-	1.
128M	1693.0-1693.6	0.6	-0.1	-1.0	-1.0	-	4.6	2.76	-1.0	-1.0	5.4	83.6	-	1.
128N	1693.6-1694.0	0.4	-0.1	-1.0	-1.0	-	3.2	1.28	-1.0	-1.0	Trace	73.7	-	1.
CORE NO. 40 1694' - 1714' (Rec. 20.0') (5 Boxes)														
128-O	1694.0-1694.9	0.9	-0.1	-1.0	-1.0	-	3.5	3.15	-1.0	-1.0	Trace	51.9	-	1.
128P	1694.9-1695.7	0.8	-0.1	-1.0	-1.0	-	3.4	2.72	-1.0	-1.0	11.1	73.2	-	1.
128Q	1695.7-1696.7	1.2	-0.1	-1.0	-1.0	-	4.2	5.04	-1.0	-1.0	Trace	59.6	-	1.
128R	1696.9-1697.3	0.4	-0.1	-1.0	-1.0	-	5.2	2.08	-1.0	-1.0	Trace	60.0	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
CORE NO. 40 (Cont'd.)														
-	1697.3-1697.9	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
128S	1697.9-1698.4	0.5	-0.1	-1.0	-1.0	-	5.4	2.70	-1.0	-1.0	Trace	44.6	-	1.
128T	1698.4-1698.9	0.5	-0.1	-1.0	-1.0	-	5.7	2.85	-1.0	-1.0	Trace	42.3	-	1.
&129	1698.9-1699.4	0.5	0.81	0.58	-0.1	0.405	6.5	3.25	2.49	2.67	Trace	66.7	-	Few SV.PPV.1.Sty.
-	1699.4-1699.9	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
&130	1699.9-1701.0	1.1	0.47	0.28	-0.1	0.517	6.8	7.48	2.48	2.67	5.3	61.0	-	Few SV.PPV.1. Sty.
131	1701.0-1701.6	0.6	0.5	-1.0	-1.0	0.30	7.4	4.44	-1.0	-1.0	6.9	65.3	-	1. PPV.
-	1701.6-1702.1	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
132	1702.1-1702.6	0.5	0.5	-1.0	-1.0	0.25	9.3	4.65	-	-	6.5	53.2	-	1. PPV.
133	1702.6-1703.2	0.6	-0.1	-1.0	-1.0	-	5.7	3.42	-	-	5.3	60.6	-	1. PPV.
&134	1703.2-1704.2	1.0	0.15	0.10	0.22	0.150	5.3	5.30	2.60	2.75	Trace	36.4	2.200	1 1. SV.Sty. A.
&135	1704.2-1705.2	1.0	0.03	0.02	-0.1	0.030	4.0	4.00	2.59	2.70	Trace	45.0	-	1. Few PPV.Sty.
136	1705.2-1706.6	1.4	-0.1	-1.0	-1.0	-	3.2	4.48	-1.0	-1.0	Trace	51.4	-	1.
-	1706.6-1714.0	7.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 41 1714' - 1732' (Rec. 16.5') (4 Boxes)														
-	1714.0-1714.5	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
-	1714.5-1717.1	2.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
&137	1717.1-1718.0	0.9	0.01	0.01	-0.1	0.009	3.7	3.33	2.61	2.71	Trace	57.1	-	1. Sty.
-	1718.0-1718.5	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
&138	1718.5-1719.0	0.5	0.02	0.02	-0.1	0.010	3.9	1.95	2.61	2.71	Trace	36.4	-	1. Few PPV.Sty.A.
139	1719.0-1719.9	0.9	-0.1	-1.0	-1.0	-	12.2	10.98	-1.0	-1.0	Trace	56.4	-	1. Chert
140	1719.9-1721.1	1.2	-0.1	-1.0	-1.0	-	3.5	4.29	-1.0	-1.0	Trace	60.9	-	1.
141	1721.1-1722.7	1.6	-0.1	-1.0	-1.0	-	4.2	6.72	-1.0	-1.0	Trace	16.7	-	1.
-	1722.7-1723.4	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
142	1723.4-1724.5	1.1	-0.1	-1.0	-1.0	-	3.6	3.96	-1.0	-1.0	Trace	23.5	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. x FEET	POROSITY PER CENT	POROSITY x FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. x FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75
														Columns 76-77 (01)
CORE NO. 41 (Cont'd.)														
143	1724.5-1726.0	1.5	-0.1	-1.0	-1.0	-	5.2	7.80	-1.0	-1.0	Trace	58.2	-	1.
144	1726.0-1727.6	1.6	-0.1	-1.0	-1.0	-	5.6	8.96	-1.0	-1.0	Trace	78.1	-	1.
145	1727.6-1728.6	1.0	-0.1	-1.0	-1.0	-	11.9	11.90	-1.0	-1.0	Trace	57.0	-	1.
146	1728.6-1729.3	0.7	-0.1	-1.0	-1.0	-	10.1	7.07	-1.0	-1.0	0.0	49.2	-	1.
147	1729.3-1730.0	0.7	-0.1	-1.0	-1.0	-	7.4	5.18	-1.0	-1.0	0.0	55.8	-	1.
148	1730.0-1730.5	0.5	-0.1	-1.0	-1.0	-	8.1	4.05	-1.0	-1.0	0.0	84.1	-	1.
-	1730.5-1732.0	1.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
-	1732.0-1744.0	12.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled
CORE NO. 42 1744' - 1761' (Rec. 15.6') (4 Boxes)														
149	1744.0-1745.1	1.1	0.3	-1.0	-1.0	0.330	5.1	5.61	-1.0	-1.0	Trace	34.4	-	1. Few PPV.
&150	1745.1-1746.3	1.2	0.05	0.05	-0.1	0.060	3.7	4.44	2.61	2.71	Trace	53.5	-	1.
151	1746.3-1747.3	1.0	-0.1	-1.0	-1.0	-	3.7	3.70	-1.0	-1.0	Trace	26.3	-	1.
152	1747.3-1748.3	1.0	-0.1	-1.0	-1.0	-	4.7	4.70	-1.0	-1.0	Trace	44.4	-	1.
&153	1748.3-1749.6	1.3	0.07	0.05	-0.1	0.091	4.4	5.72	2.59	2.71	Trace	32.9	-	1.
-	1749.6-1749.8	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
&154	1749.8-1751.0	1.2	0.03	0.01	-0.1	0.036	4.0	4.80	2.60	2.71	Trace	42.0	-	1.
&155	1751.0-1752.1	1.1	0.85	0.76	-0.1	0.935	3.3	3.63	2.63	2.72	Trace	48.8	-	1 1. Sty. A.
&156	1752.1-1753.1	1.0	1.7	1.7	0.06	1.70	5.1	5.10	2.59	2.73	Trace	36.1	0.060	1. PPV.
&157	1753.1-1753.9	0.8	1.9	0.78	-0.1	1.52	4.4	3.52	2.60	2.72	Trace	58.1	-	1 1. Sty.
&158	1753.9-1754.8	0.9	0.66	0.64	-0.1	0.594	4.1	3.69	2.61	2.72	Trace	64.5	-	1 1. Sty.
-	1754.8-1755.1	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
159	1755.1-1755.7	0.6	-0.1	-1.0	-1.0	-	4.4	2.64	-1.0	-1.0	Trace	34.4	-	1.
&160	1755.7-1756.6	0.9	0.75	0.75	-0.1	0.675	3.5	3.15	2.64	2.73	Trace	27.2	-	1. PPV. Few SV., Sty.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
														Columns 76-77 (01)
CORE NO. 42 (Cont'd.)														
&161	1756.6-1757.5	0.9	1.5	1.5	-0.1	1.35	4.3	3.87	2.62	2.74	Trace	30.4	-	1. PPV. SV.
162	1757.5-1758.4	0.9	-0.1	-1.0	-1.0	-	3.2	2.88	-1.0	-1.0	0.0	33.3	-	1.
163	1758.4-1759.6	1.2	-0.1	-1.0	-1.0	-	4.0	4.80	-1.0	-1.0	Trace	48.4	-	1. Few PPV.
-	1759.6-1761.0	1.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 43 1761' - 1781' (Rec. 20.0') (4 Boxes)														
164	1761.0-1761.8	0.8	-0.1	-1.0	-1.0	-	5.0	4.00	-1.0	-1.0	Trace	54.8	-	1.
165	1761.8-1762.2	0.4	-0.1	-1.0	-1.0	-	4.6	1.84	-1.0	-1.0	Trace	19.7	-	1.
-	1762.2-1762.7	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
&166	1762.7-1763.3	0.6	0.51	0.48	-0.1	0.306	8.4	5.04	2.48	2.71	Trace	44.5	-	1 1. Sty.
&167	1763.3-1764.2	0.9	0.91	0.70	-0.1	0.819	6.0	5.40	2.58	2.75	Trace	52.1	-	1 1. Sty. A.
&168	1764.2-1765.4	1.2	0.37	0.33	0.29	0.444	3.9	4.68	2.59	2.69	Trace	50.4	0.348	1 1. Sty.
&169	1765.4-1766.7	1.3	10.	3.5	0.31	13.0	10.0	13.00	2.43	2.70	Trace	43.8	0.403	1 1. PPV. Sty.
&170	1766.7-1767.9	1.2	0.60	0.58	-0.1	0.720	6.6	7.92	2.53	2.71	Trace	59.7	-	1 1. Sty.
&171	1767.9-1769.5	1.6	0.31	0.29	-0.1	0.496	4.7	7.52	2.56	2.69	Trace	46.9	-	1 1. Sty.
-	1769.5-1773.4	3.9	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense
&172	1773.4-1773.9	0.5	1.4	1.3	-0.1	0.700	1.6	0.80	2.67	2.71	Trace	83.0	-	1 PPV.
-	1773.9-1774.3	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
&173	1774.3-1775.0	0.7	0.36	0.36	-0.1	0.252	6.1	4.27	2.54	2.71	Trace	52.7	-	1 1. Sty.
&174	1775.0-1776.6	1.6	0.32	0.30	-0.1	0.512	3.5	5.60	2.56	2.55	Trace	41.3	-	1 1. Sty.
&175	1776.6-1777.9	1.3	0.44	0.41	-0.1	0.572	4.3	5.59	2.69	2.71	Trace	47.9	-	1. PPV. SV.
&176	1777.9-1778.5	0.6	1.2	1.1	0.18	0.720	4.1	2.46	2.58	2.69	Trace	30.0	0.108	1 1.PPV. SV. Sty.
&177	1778.5-1779.0	0.5	0.61	0.61	-0.1	0.305	3.4	1.70	2.63	2.72	6.8	40.9	-	1. PPV. Sty.
&178	1779.0-1780.5	1.5	2.1	1.9	-0.1	3.15	7.5	11.25	2.53	2.73	Trace	46.1	-	1.Sty.PPV. A.
-	1780.5-1781.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

CORE NO. 44 1781' - 1801' (Rec. 19.5') (4 boxes)

1	1781.0-1782.3	1.3	0.03	0.03	-0.1	0.04	5.3	6.89	2.55	2.69	Trace	43.4	-	
2	1782.3-1783.6	1.3	-0.1	-0.1	-0.1	-	5.2	6.76	2.56	2.70	Trace	52.1	-	1. Stylol.
3	1783.6-1785.3	1.7	0.09	0.06	-0.1	0.15	4.9	8.33	2.56	2.69	Trace	32.7	-	1. Stylol.
4	1785.3-1787.1	1.8	0.18	0.10	-0.1	0.32	4.2	7.56	2.59	2.70	Trace	38.0	-	Few PPV. 1.
5	1787.1-1788.2	1.1	0.06	0.06	-0.1	0.07	4.7	5.17	2.56	2.69	0.0	34.2	-	1. Stylol.
6	1788.2-1789.9	1.7	0.03	0.02	-0.1	0.05	3.7	6.29	2.56	2.66	Trace	43.3	-	1. Stylol.
7	1789.9-1791.2	1.3	0.13	0.10	-0.1	0.17	5.0	6.50	2.56	2.69	Trace	38.1	-	1. Stylol.
8	1791.2-1792.6	1.4	0.12	0.10	-0.1	0.17	4.7	6.58	2.58	2.71	Trace	34.0	-	Few SV.1.Sty.
9	1792.6-1793.7	1.1	0.04	-0.1	-0.1	0.04	4.8	5.28	2.54	2.67	Trace	48.0	-	1. Stylol.
10	1793.7-1794.6	0.9	0.08	0.05	-0.1	0.07	5.3	4.77	2.55	2.69	Trace	22.6	-	1. Stylol.
11	1794.6-1796.4	1.8	0.05	-0.1	-0.1	0.09	5.3	9.54	2.59	2.73	Trace	34.0	-	1. Stylol.
12	1796.4-1798.6	2.2	0.02	0.02	-0.1	0.04	1.8	3.96	2.67	2.72	Trace	72.2	-	1. Stylol.
13	1798.6-1800.5	1.9	0.01	-0.1	-0.1	0.02	3.8	7.22	2.56	2.66	Trace	47.1	-	1. Stylol.

CORE NO. 45 1801' - 1820' (Rec. 19.5') (4 boxes) (0.5' over recovery from Core No. 45 added to Core No. 44)

14	1800.5-1803.4	2.9	0.08	0.03	-0.1	0.23	4.7	13.63	2.52	2.65	Trace	38.3	-	1. Stylol.
15	1803.4-1805.7	2.3	0.16	0.08	-0.1	0.37	3.5	8.05	2.56	2.65	0.0	53.5	-	1. Stylol.
16	1805.7-1808.2	2.5	0.03	0.04	-0.1	0.10	3.1	7.75	2.62	2.70	Trace	32.3	-	1. Stylol.
17	1808.2-1810.2	2.0	0.10	0.07	-0.1	0.20	3.9	7.80	2.61	2.71	Trace	51.4	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	

Columns 76-77 (01)

Core No. 45 (cont'd)

18	1810.2-1811.7	1.5	0.09	0.09	-0.1	0.14	2.0	3.00	2.59	2.64	Trace	85.0	-	1. Stylol.
19	1811.7-1813.2	1.5	0.05	-0.1	-0.1	0.08	2.8	4.20	2.55	2.63	Trace	48.3	-	1. Stylol.
20	1813.2-1815.2	2.0	0.10	0.03	-0.1	0.20	2.9	5.80	2.57	2.65	Trace	65.5	-	1. Stylol.
21	1815.2-1816.7	1.5	0.04	0.02	-0.1	0.06	6.1	9.15	2.52	2.69	Trace	29.4	-	1. Stylol.
22	1816.7-1818.1	1.4	0.07	0.07	-0.1	0.10	4.0	5.60	2.58	2.69	Trace	50.0	-	1. Stylol.
23	1818.1-1820.0	1.9	0.07	0.03	-0.1	0.13	3.1	5.89	2.57	2.65	Trace	70.5	-	1. Stylol.
CORE NO. 46 1820' - 1839' (Rec. 19.5') (4 boxes)														
24	1820.0-1822.3	2.3	0.03	-0.1	-0.1	0.07	2.7	6.21	2.58	2.65	Trace	51.8	-	1. Stylol.
25	1822.3-1824.6	2.3	0.03	-0.1	-0.1	0.07	1.6	3.68	2.73	2.77	0.0	100.0	-	1.
26	1824.6-1826.4	1.8	-0.1	-0.1	-0.1	-	2.4	4.32	2.77	2.84	0.0	33.3	-	1.
-	1826.4-1827.1	0.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydrite
27	1827.1-1828.9	1.8	-0.1	-0.1	-0.1	-	2.1	3.78	2.72	2.78	Trace	95.3	-	1. Stylol.
-	1828.9-1829.3	0.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydrite
28	1829.3-1832.0	2.7	0.03	0.01	-0.1	0.08	2.4	6.48	2.60	2.66	Trace	75.0	-	1.
29	1832.0-1834.3	2.3	-0.1	-0.1	-0.1	-	3.6	8.28	2.57	2.67	Trace	55.5	-	1. Stylol.
30	1834.3-1835.3	1.0	0.07	0.03	-0.1	0.07	4.5	4.50	2.55	2.67	Trace	57.8	-	1. Stylol.
31	1835.3-1837.0	1.7	0.04	-0.1	-0.1	0.07	7.4	12.58	2.49	2.69	Trace	37.8	-	1.
32	1837.0-1839.5	2.5	0.04	0.02	-0.1	0.10	3.6	9.00	2.59	2.69	Trace	55.6	-	1. Stylol.
CORE NO. 47 1839' - 1859' (Rec. 19.5') (4 boxes) (0.5' over recovery from Core No. 46)														
33	1839.5-1940.6	1.1	0.09	0.05	-0.1	0.10	7.3	8.03	2.51	2.71	Trace	32.8	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 47 (cont'd)														
34	1840.6-1842.0	1.4	0.05	0.02	-0.1	0.07	6.5	9.10	2.53	2.70	Trace	55.5	-	1.
35	1842.0-1843.2	1.2	0.03	0.03	-0.1	0.04	8.5	10.20	2.48	2.71	Trace	40.0	-	1.
36	1843.2-1844.5	1.3	0.10	0.07	-0.1	0.13	4.9	6.37	2.50	2.63	Trace	73.5	-	1. Stylol.
37	1844.5-1845.7	1.2	0.07	0.05	-0.1	0.08	9.4	11.28	2.43	2.69	Trace	34.0	-	1.
38	1845.7-1847.0	1.3	0.05	0.02	-0.1	0.07	7.3	9.49	2.48	2.68	Trace	46.7	-	1.
39	1847.0-1848.2	1.2	0.05	0.03	-0.1	0.06	9.1	10.92	2.43	2.68	Trace	42.9	-	1.
40	1848.2-1849.3	1.1	0.31	0.27	-0.1	0.34	11.0	12.10	2.40	2.69	Trace	25.5	-	PPV. 1.
41	1849.3-1850.3	1.0	0.33	0.26	-0.1	0.33	12.6	12.60	2.33	2.67	0.0	28.5	-	PPV. 1. Sty.
42	1850.3-1851.3	1.0	0.15	0.10	-0.1	0.15	10.5	10.50	2.40	2.68	Trace	34.3	-	1.
43	1851.3-1852.1	0.8	0.46	0.18	-0.1	0.37	12.2	9.76	2.34	2.67	Trace	23.5	-	PPV. 1. Sty.
44	1852.1-1852.7	0.6	0.92	0.73	-0.1	0.55	13.5	8.10	2.31	2.67	Trace	32.6	-	PPV. 1.
45	1852.7-1853.3	0.6	0.92	0.82	0.20	0.55	14.3	8.58	2.30	2.68	Trace	25.1	0.12	PPV. 1.
46	1853.3-1854.2	0.9	0.17	0.14	-0.1	0.15	7.8	7.02	2.49	2.70	Trace	35.8	-	Few PPV. 1. Sty.
47	1854.2-1855.2	1.0	0.11	0.05	-0.1	0.11	6.9	6.90	2.51	2.69	Trace	58.0	-	Few PPV.1.Sty.
48	1855.2-1856.3	1.1	0.06	0.03	-0.1	0.07	9.6	10.56	2.47	2.73	Trace	43.7	-	1.
49	1856.3-1856.7	0.4	0.28	0.09	-0.1	0.11	5.3	2.12	2.59	2.73	Trace	53.0	-	1. A.
50	1856.7-1857.3	0.6	10.	8.1	0.59	6.00	14.6	8.76	2.38	2.79	Trace	51.2	0.35	Few PPV.1.A.
51	1857.3-1858.4	1.1	2.1	1.1	0.34	2.31	5.1	5.61	2.64	2.78	0.0	100.0	0.37	1 1. Stylol. A.
52	1858.4-1859.0	0.6	0.31	0.20	-0.1	0.19	14.4	8.64	2.39	2.78	Trace	52.1	-	1. Stylol. A.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	PERMEABILITY TO AIR HORIZONTAL K 90°	PERMEABILITY TO AIR VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75	
															Columns 76-77 (01)
CORE NO. 48 1859' - 1879' (Rec. 19.8') (4 boxes)															
53	1859.0-1860.5	1.5	0.18	0.08	-0.1	0.27	14.3	21.45	2.41	2.81	Trace	56.2	-		Few PPV.1.Sty.
54	1860.5-1861.5	1.0	0.04	-0.1	-0.1	0.04	17.9	17.90	2.34	2.85	Trace	44.8	-		1.Stylol.
55	1861.5-1862.6	1.1	0.39	0.07	-0.1	0.43	17.6	19.36	2.33	2.83	Trace	56.8	-	1	1. Stylol. A.
56	1862.6-1863.7	1.1	0.04	-0.1	-0.1	0.04	17.7	19.47	2.32	2.82	Trace	45.1	-		1. Stylol.
57	1863.7-1864.7	1.0	-0.1	-0.1	-0.1	-	17.3	17.30	2.30	2.78	Trace	46.2	-		1.
58	1864.7-1865.8	1.1	0.29	0.18	-0.1	0.32	14.6	16.06	2.35	2.75	Trace	46.3	-		1. Stylol.
59	1865.8-1866.5	0.7	0.73	-0.63	-0.1	0.51	20.4	14.28	2.22	2.79	Trace	17.6	-		PPV. 1.
60	1866.5-1867.7	1.2	-0.1	-0.1	-0.1	-	9.0	10.80	2.53	2.77	Trace	57.8	-		1. Stylol.
61	1867.7-1869.2	1.5	0.07	-0.1	-0.1	0.11	12.0	18.00	2.43	2.77	Trace	28.2	-		1. Stylol.
62	1869.2-1870.2	1.0	0.31	0.10	-0.1	0.31	17.4	17.40	2.32	2.81	Trace	27.5	-		1. Stylol.
63	1870.2-1871.3	1.1	-0.1	-0.1	-0.1	-	5.9	6.49	2.62	2.79	Trace	33.8	-		1.
64	1871.3-1872.9	1.6	-0.1	-0.1	-0.1	-	3.8	6.08	2.62	2.73	Trace	36.8	-		1. Stylol.
65	1872.9-1874.7	1.8	-0.1	-0.1	-0.1	-	4.0	7.20	2.57	2.68	Trace	30.0	-		1.
66	1874.7-1876.8	2.1	-0.1	-0.1	-0.1	-	3.5	7.35	2.63	2.72	0.0	34.3	-		1.
67	1876.8-1877.8	1.0	1.5	0.52	0.51	1.50	15.6	15.60	2.37	2.81	Trace	32.0	0.51	1	Few SV.1.Sty.
68	1877.8-1878.8	1.0	-0.1	-0.1	-0.1	-	9.6	9.60	2.49	2.76	Trace	69.9	-		1.
-	1878.8-1879.0	0.2	-	-	-	-	-	-	-	-	-	-			Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)			
													Columns 76-77 (01)		
CORE NO. 49 1879' - 1899' (Rec. 20.0') (4 boxes)															
69	1879.0-1880.6	1.6	0.24	0.20	-0.1	0.38	12.6	20.16	2.44	2.79	Trace	60.3	-		1. Stylol. A.
70	1880.6-1882.0	1.4	-0.1	-0.1	-0.1	-	2.0	2.80	2.65	2.71	Trace	95.0	-		
71	1882.0-1883.0	1.0	5.7	5.3	1.8	5.70	16.9	16.90	2.31	2.78	Trace	40.1	1.80		SV. 1. Stylol.
72	1883.0-1884.1	1.1	2.5	2.3	0.67	2.75	15.8	17.38	2.32	2.76	Trace	52.0	0.74	1	1. Stylol.
73	1884.1-1885.4	1.3	3.0	2.9	2.0	3.90	16.8	21.84	2.32	2.79	Trace	59.6	2.60		1.
74	1885.4-1887.1	1.7	0.03	-0.1	-0.1	0.05	2.8	4.76	2.63	2.71	Trace	57.2	-		1. Stylol.
75	1887.1-1889.7	2.6	-0.1	-0.1	-0.1	-	3.6	9.36	2.61	2.71	Trace	33.3	-		1.
76	1889.7-1891.7	2.0	-0.1	-0.1	-0.1	-	1.7	3.40	2.66	2.71	0.0	100.0	-		1.
77	1891.7-1893.3	1.6	0.09	-0.1	-0.1	0.14	10.1	16.16	2.44	2.71	Trace	35.6	-	1	1. Stylol.
78	1893.3-1894.9	1.6	0.03	0.03	-0.1	0.05	8.4	13.44	2.47	2.70	Trace	47.7	-		1. Stylol.
79	1894.9-1897.0	2.1	-0.1	-0.1	-0.1	-	2.9	6.09	2.59	2.66	Trace	69.2	-		1. Stylol.
80	1897.0-1899.0	2.0	-0.1	-0.1	-0.1	-	3.4	6.80	2.59	2.68	Trace	47.2	-		1.
CORE NO. 50 1899' - 1919' (Rec. 19.5') (4 boxes)															
81	1899.0-1900.1	1.1	-0.1	-0.1	-0.1	-	2.0	2.20	2.61	2.66	Trace	60.0	-		1.
82	1900.1-1901.4	1.3	-0.1	-0.1	-0.1	-	3.6	4.68	2.51	2.61	Trace	33.3	-		1.
83	1901.4-1902.6	1.2	4.1	1.2	0.71	4.92	21.4	25.68	2.17	2.75	Trace	42.0	0.85		1.
84	1902.6-1903.5	0.9	16.	7.6	2.7	14.40	20.7	18.63	2.17	2.73	Trace	53.1	2.43	1	1. Stylol.
85	1903.5-1904.2	0.7	-0.1	-0.1	-0.1	-	9.6	6.72	2.41	2.67	Trace	56.0	-		1. Stylol.
86	1904.2-1905.4	1.2	2.0	1.0	-0.1	2.40	14.2	17.04	2.37	2.76	0.0	56.5	-		1. Stylol.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

Core No. 50 (cont'd)

87	1905.4-1906.6	1.2	6.3	5.8	1.4	7.56	17.9	21.48	2.29	2.79	Trace	55.8	1.68	1. Stylol.
88	1906.6-1907.8	1.2	19.	18.	12.	22.80	23.6	28.32	2.13	2.79	Trace	55.1	14.40	1.
89	1907.8-1908.9	1.1	4.5	3.8	5.2	4.95	18.3	20.13	2.23	2.73	Trace	70.8	5.72	1.
90	1908.9-1910.1	1.2	12.	11.	12.	14.40	20.7	24.84	2.19	2.76	Trace	55.5	14.40	1.
91	1910.1-1911.1	1.0	0.11	0.08	-0.1	0.11	9.7	9.70	2.57	2.85	0.0	61.8	-	1.
92	1911.1-1912.6	1.5	0.51	0.51	-0.1	0.77	5.5	8.25	2.60	2.75	0.0	58.1	-	1. Stylol.
93	1912.6-1913.9	1.3	0.1	-0.1	-0.1	-	5.5	7.15	2.55	2.70	0.0	50.8	-	1. Stylol.
94	1913.9-1915.3	1.4	-0.1	-0.1	-0.1	-	7.8	10.92	2.53	2.75	Trace	51.3	-	1. Stylol. A.
95	1915.3-1917.0	1.7	0.04	0.04	-0.1	0.07	8.0	13.60	2.50	2.72	Trace	42.5	-	1.
96	1917.0-1918.5	1.5	0.04	-0.1	-0.1	0.06	6.5	9.75	2.51	2.68	Trace	46.0	-	1.
-	1918.5-1919.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0		

CORE NO. 51 1919' - 1939' (Rec. 20.0') (4 boxes)

97	1919.0-1921.2	2.2	0.02	0.02	-0.1	0.04	3.7	8.14	2.59	2.69	0.0	53.2	-	1.
98	1921.2-1922.4	1.2	0.19	0.14	-0.1	0.23	4.9	5.88	2.56	2.69	0.0	65.1	-	Few SV.1.Sty.
99	1922.4-1923.4	1.0	0.09	0.04	-0.1	0.09	10.2	10.20	2.42	2.69	Trace	43.2	-	1. Stylol.
100	1923.4-1924.4	1.0	0.17	0.14	-0.1	0.17	11.7	11.70	2.38	2.70	Trace	37.8	-	1.
101	1924.4-1925.9	1.5	2.5	2.3	1.0	3.75	18.1	27.15	2.29	2.79	2.8	38.4	1.50	1.
102	1925.9-1927.2	1.3	0.29	0.27	-0.1	0.38	13.6	17.68	2.41	2.79	Trace	66.1	-	1. Stylol.
103	1927.2-1928.1	0.9	-0.1	-0.1	-0.1	-	12.4	11.16	2.45	2.80	0.0	42.8	-	1. Stylol. A.
104	1928.1-1929.6	1.5	-0.1	-0.1	-0.1	-	3.8	5.70	2.71	2.82	0.0	57.8	-	1. Stylol. A.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

Core No. 51 (cont'd)

105	1929.6-1930.9	1.3	-0.1	-0.1	-0.1	-	2.4	3.12	2.72	2.78	0.0	91.5	-	1. Stylol.
106	1930.9-1932.0	1.1	0.05	-0.1	-0.1	0.06	10.0	11.00	2.55	2.83	5.0	80.0	-	1.
107	1932.0-1933.4	1.4	0.87	0.62	0.20	1.22	14.0	19.60	2.40	2.78	0.0	58.6	0.28	1.
108	1933.4-1934.4	1.0	-0.1	-0.1	-0.1	-	8.3	8.30	2.47	2.69	0.0	48.2	-	1.
109	1934.4-1935.8	1.4	0.04	-0.1	-0.1	0.06	6.6	9.24	2.52	2.70	Trace	42.5	-	1.
110	1935.8-1937.1	1.3	0.04	-0.1	-0.1	0.05	7.4	9.62	2.48	2.68	Trace	37.8	-	1.
111	1937.1-1938.4	1.3	-0.1	-0.1	-0.1	-	3.9	5.07	2.54	2.64	Trace	46.2	-	1. Stylol.
-	1938.4-1939.0	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed

CORE NO. 52 1939' - 1959' (Rec. 20.0') (4 boxes)

112	1939.0-1939.7	0.7	-0.1	-0.1	-0.1	-	6.0	4.20	2.59	2.76	Trace	33.4	-	1. Stylol. A.
113	1939.7-1940.9	1.2	0.27	0.20	-0.1	0.32	8.3	9.96	2.51	2.74	Trace	55.4	-	Few PPV.1.Sty.A.
-	1940.9-1942.9	2.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydrite
114	1942.9-1944.9	2.0	-0.1	-0.1	-0.1	-	4.2	8.40	2.61	2.72	0.0	42.8	-	1.
115	1944.9-1945.7	0.8	-0.1	-0.1	-0.1	-	2.1	1.68	2.80	2.86	0.0	100.0	-	1. A.
116	1945.7-1947.2	1.5	0.21	0.16	-0.1	0.32	9.7	14.55	2.51	2.78	5.1	51.6	-	1. A.
117	1947.2-1947.9	0.7	-0.1	-0.1	-0.1	-	0.7	0.49	2.87	2.89	0.0	57.2	-	1. A.
118	1947.9-1948.9	1.0	0.24	0.24	-0.1	0.24	10.7	10.70	2.49	2.79	Trace	49.6	-	1. Stylol.
119	1948.9-1949.6	0.7	0.66	0.66	-0.1	0.46	10.4	7.27	2.48	2.77	Trace	55.8	-	1. A.
120	1949.6-1950.2	0.6	1.9	1.9	1.3	1.14	14.8	8.88	2.36	2.77	Trace	24.3	0.78	1. A.
121	1950.2-1951.4	1.2	0.11	0.11	-0.1	0.13	3.5	4.20	2.64	2.74	Trace	40.0	-	1. A.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FR.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 52 (cont'd)														
122	1951.4-1952.9	1.5	0.05	0.04	-0.1	0.08	2.5	3.75	2.79	2.87	0.0	100.0	-	I. A.
123	1952.9-1954.4	1.5	-0.1	-0.1	-0.1	-	9.2	13.80	2.51	2.76	Trace	36.8	-	I. A.
124	1954.4-1955.1	0.7	85.	53.	0.88	59.50	9.6	6.72	2.49	2.75	Trace	43.7	0.62	SV. PPV. I.
125	1955.1-1955.8	0.7	87.	69.	19.	60.90	21.5	15.05	2.15	2.74	Trace	32.5	13.30	SV. PPV. I.
126	1955.8-1956.5	0.7	19.	15.	2.1	13.30	14.6	10.22	2.36	2.76	3.4	46.2	1.47	SV. PPV.I.Sty.
-	1956.5-1956.7	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
127	1956.7-1958.0	1.3	3.9	3.7	1.7	5.07	11.1	14.43	2.51	2.83	Trace	61.5	2.21	Few SV.I.Sty.
128	1958.0-1959.0	1.0	3.2	3.0	0.56	3.20	12.3	12.30	2.46	2.81	Trace	40.6	0.56	PPV. I. Sty.
CORE NO. 53 1959' - 1979' (Rec. 19.7') (4 boxes)														
129	1959.0-1959.8	0.8	5.8	5.0	-0.1	4.64	7.7	6.16	2.60	2.81	Trace	57.1	-	SV. I. A.
130	1959.8-1961.4	1.6	4.5	3.5	-0.1	7.20	8.1	12.96	2.57	2.80	Trace	74.1	-	Few SV.I.Sty.
131	1961.4-1962.9	1.5	0.48	0.38	-0.1	0.72	8.5	12.75	2.57	2.80	Trace	42.5	-	I. Stylol.
132	1962.9-1963.9	1.0	0.14	0.14	-0.1	0.14	7.2	7.20	2.60	2.60	Trace	55.5	-	Few SV. I.
133	1963.9-1964.6	0.7	6.3	5.5	-0.1	4.41	9.6	6.72	2.52	2.79	Trace	62.5	-	SV. PPV.I.Sty.
134	1964.6-1965.5	0.9	18.	11.	1.5	16.20	12.3	11.07	2.42	2.76	Trace	43.8	1.35	Few SV. I.Sty.
135	1965.5-1967.3	1.8	0.07	0.03	-0.1	0.13	6.9	12.42	2.55	2.74	Trace	58.0	-	I.
136	1967.3-1969.0	1.7	0.14	0.13	-0.1	0.24	9.2	15.64	2.48	2.73	Trace	34.8	-	I.
137	1969.0-1970.2	1.2	0.06	-0.1	-0.1	0.07	9.2	11.04	2.49	2.74	Trace	48.0	-	I.
138	1970.2-1971.5	1.3	0.21	0.17	-0.1	0.27	11.0	14.30	2.43	2.74	Trace	40.0	-	I.
139	1971.5-1972.3	0.8	0.23	0.18	-0.1	0.18	11.3	9.04	2.44	2.75	4.4	52.2	-	I. Stylol.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 53 (cont'd)														
140	1972.3-1973.7	1.4	6.8	0.16	-0.1	9.52	11.6	16.24	2.45	2.77	4.3	68.5	-	SV. PPV. I.
141	1973.7-1974.8	1.1	0.30	0.13	-0.1	0.33	12.3	13.53	2.46	2.81	Trace	48.6	-	PPV. I. Sty.
142	1974.8-1976.1	1.3	0.10	0.06	-0.1	0.13	3.5	4.55	2.73	2.83	0.0	100.0	-	PPV. I.
143	1976.1-1977.2	1.1	7.4	2.6	0.84	8.14	10.5	11.55	2.50	2.80	Trace	47.5	0.92	PPV. I. Sty.
144	1977.2-1978.1	0.9	1.5	1.3	-0.1	1.35	11.8	10.62	2.45	2.78	Trace	51.6	-	PPV. I. Sty.
145	1978.1-1978.7	0.6	8.8	7.5	2.4	5.28	15.6	9.36	2.35	2.79	Trace	45.0	1.44	SV. PPV. I.
-	1978.7-1979.0	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 54 1979' - 1999' (Rec. 20.0') (4 boxes)														
146	1979.0-1979.5	0.5	4.6	2.6	-0.1	2.30	7.1	3.55	2.55	2.75	Trace	81.5	-	SV. PPV. I.
147	1979.5-1980.0	0.5	0.83	0.60	-0.1	0.42	8.0	4.00	2.55	2.78	Trace	75.0	-	I. Stylol. A.
148	1980.0-1980.4	0.4	9.6	7.9	-0.37	3.84	13.5	5.40	2.42	2.80	Trace	52.0	0.15	SV. PPV. I. Sty.
149	1980.4-1981.3	0.9	1.4	1.3	-0.1	1.26	12.4	11.16	2.47	2.81	4.0	64.5	-	I. Stylol.
150	1981.3-1982.1	0.8	5.2	5.0	0.30	4.16	13.1	10.48	2.42	2.79	Trace	62.7	0.24	SV. PPV. I.
151	1982.1-1982.9	0.8	4.8	4.2	0.65	3.84	15.1	12.08	2.38	2.80	Trace	53.2	0.52	SV. PPV. I. Sty.
152	1982.9-1983.7	0.8	1.6	1.2	-0.1	1.28	13.1	10.48	2.42	2.79	Trace	41.1	-	SV. PPV. I. Sty.
153	1983.7-1984.4	0.7	8.8	8.1	2.5	6.16	14.9	10.43	2.39	2.80	Trace	50.3	1.75	PPV. I. Sty.
154	1984.4-1986.1	1.7	9.3	8.6	-0.1	15.81	7.1	12.07	2.59	2.79	Trace	53.7	-	I.
155	1986.1-1987.3	1.2	2.1	1.3	0.42	2.52	10.2	12.24	2.52	2.80	Trace	38.2	0.50	PPV. I.
156	1987.3-1988.5	1.2	-0.1	-0.1	-0.1	-	9.3	11.16	2.56	2.82	Trace	36.5	-	I.
157	1988.5-1989.7	1.2	1.6	1.5	-0.1	1.92	7.0	8.40	2.63	2.83	Trace	68.7	-	Few SV. I. Sty.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 54 (cont'd)														
158	1989.7-1990.8	1.1	-0.1	-0.1	-0.1	-	7.4	8.14	2.61	2.82	Trace	54.1	-	1.
159	1990.8-1992.4	1.6	0.32	0.26	-0.1	0.51	8.5	13.60	2.52	2.76	Trace	50.7	-	PPV. 1. Sty.
160	1992.4-1993.4	1.0	0.72	0.69	-0.1	0.72	8.0	8.00	2.56	2.78	Trace	57.5	-	PPV. 1. Sty.
161	1993.4-1994.7	1.3	0.68	0.62	-0.1	0.88	10.3	13.39	2.48	2.76	Trace	46.7	-	PPV. 1.
-	1994.7-1995.0	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
162	1995.0-1996.0	1.0	0.26	0.22	-0.1	0.26	10.0	10.00	2.50	2.78	Trace	40.0	-	PPV. 1.
163	1996.0-1997.0	1.0	1.6	1.6	1.8	1.60	8.1	8.10	2.60	2.83	Trace	49.5	1.80	Few PPV.1.Sty.
164	1997.0-1998.0	1.0	0.10	0.10	-0.1	0.10	6.1	6.10	2.63	2.80	Trace	65.5	-	PPV. 1. Sty.
165	1998.0-1999.0	1.0	0.71	0.17	-0.1	0.71	6.2	6.20	2.60	2.77	Trace	42.0	-	PPV. 1.
CORE NO. 55 1999' - 2019' (Rec. 19.5') (4 boxes)														
166	1999.0-2000.1	1.1	29.	22.	7.0	31.90	13.4	14.74	2.41	2.79	Trace	42.8	7.70	SV. PPV. 1.Sty.
167	2000.1-2001.4	1.3	4.7	4.4	2.2	6.11	9.7	12.61	2.53	2.80	Trace	43.4	2.86	SV.PPV.1.Sty.
168	2001.4-2002.6	1.2	0.41	0.34	-0.1	0.49	4.9	5.88	2.67	2.81	Trace	61.2	-	Few PPV.1.Sty
169	2002.6-2003.7	1.1	0.32	0.14	-0.1	0.35	6.5	7.15	2.61	2.80	Trace	74.0	-	PPV.1.Sty.A.
170	2003.7-2005.2	1.5	0.14	0.14	-0.1	0.21	7.8	11.70	2.51	2.72	Trace	36.0	-	PPV.1.
171	2005.2-2006.5	1.3	0.16	0.16	-0.1	0.21	9.0	11.70	2.52	2.77	Trace	44.5	-	1.
172	2006.5-2008.2	1.7	0.23	0.19	-0.1	0.39	9.1	15.47	2.49	2.74	Trace	48.3	-	1.Stylol.
173	2008.2-2009.6	1.4	0.26	0.26	-0.1	0.36	9.3	13.02	2.51	2.76	Trace	45.3	-	PPV.1.
174	2009.6-2011.4	1.8	0.24	0.21	-0.1	0.43	8.6	15.48	2.47	2.71	Trace	55.9	-	1.
175	2011.4-2012.8	1.4	0.34	0.28	0.15	0.48	10.9	15.26	2.41	2.71	Trace	44.1	0.21	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
Core No. 55 (cont'd)														
176	2012.8-2014.5	1.7	0.41	0.41	0.06	0.70	10.2	17.34	2.43	2.71	Trace	49.0	0.10	I.
177	2014.5-2016.2	1.7	0.78	0.58	-0.1	1.33	6.5	11.05	2.57	2.75	0.0	12.3	-	I.
178	2016.2-2018.5	2.3	0.67	0.48	-0.1	1.54	7.0	16.10	2.53	2.72	Trace	57.0	-	I.
-	2018.5-2019.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 56 2019' - 2038' (Rec. 16.2') (4 boxes)														
179	2019.0-2020.6	1.6	0.33	0.14	-0.1	0.53	9.2	14.72	2.51	2.76	Trace	43.5	-	I. Stylol.
180	2020.6-2022.4	1.8	0.37	0.34	-0.1	0.67	10.3	18.54	2.44	2.72	Trace	39.3	-	I.
181	2022.4-2022.8	0.4	57.	10.	0.13	22.80	15.6	6.24	2.30	2.72	Trace	26.2	0.05	PPV. I.
182	2022.8-2024.1	1.3	0.76	0.56	-0.1	0.99	11.0	14.30	2.41	2.70	Trace	42.7	-	I. Stylol.
183	2024.1-2025.4	1.3	0.23	0.18	-0.1	0.30	8.2	10.66	2.52	2.75	Trace	56.1	-	PPV. I. Stylol.
184	2025.4-2026.7	1.3	0.22	0.19	-0.1	0.29	9.3	12.09	2.50	2.76	Trace	42.8	-	I. Stylol.
185	2026.7-2027.5	0.8	0.39	0.30	-0.1	0.31	12.6	10.08	2.45	2.80	Trace	35.8	-	PPV.I.Stylol.
186	2027.5-2028.7	1.2	0.24	0.19	-0.1	0.29	12.2	14.64	2.42	2.76	Trace	41.1	-	Few PPV.I.Sty.
187	2028.7-2031.0	2.3	0.14	0.14	-0.1	0.32	10.8	24.84	2.45	2.74	Trace	40.7	-	I. Stylol.
SS188	2031.0-2031.4	0.4	0.38	0.27	0.11	0.15	8.4	3.36	-1.0	-1.0	Trace	54.8	0.04	PPV. I.
SS189	2031.4-2031.8	0.4	3.1	3.0	2.1	1.24	10.9	4.36	-1.0	-1.0	Trace	34.8	0.84	PPV. I.
-	2031.8-2032.0	0.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Dense shaly
SS190	2032.0-2033.0	1.0	0.61	0.11	0.04	0.61	3.6	3.60	-1.0	-1.0	Trace	55.6	0.04	PPV. I.
SS191	2033.0-2034.1	1.1	0.27	0.11	0.04	0.30	5.5	6.05	-1.0	-1.0	0.0	47.3	0.04	I. Stylol.
SS192	2034.1-2035.2	1.1	0.92	0.80	0.57	1.01	11.2	12.32	-1.0	-1.0	Trace	16.2	0.63	I. Stylol.

SAMPLE NUMBER	DEPTH REPRESENTED - FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 56 (cont'd)														
-	2035.2-2038.0	2.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO.57 2038' - 2057' (Rec. 19.0') (4 boxes)														
SS193	2038.0-2039.0	1.0	0.15	0.08	0.04	0.15	6.6	6.60	-1.0	-1.0	Trace	48.5	0.04	I. Stylol.
SS194	2039.0-2040.0	1.0	2.4	0.38	0.15	2.40	9.2	9.20	-1.0	-1.0	Trace	45.7	0.15	I. Stylol.
-	2040.0-2043.7	3.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Dense shaly
-	2043.7-2048.2	4.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydritic
195	2048.2-2050.5	2.3	0.07	0.07	-0.1	0.16	8.3	19.09	2.57	2.80	Trace	52.9	-	I. Stylol.
-	2050.5-2053.3	2.8	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydritic
196	2053.3-2054.1	0.8	0.55	0.25	-0.1	0.44	8.6	6.88	2.54	2.78	Trace	30.3	-	I. Stylol.A.
197	2054.1-2055.6	1.5	-0.1	-0.1	-0.1	-	5.8	8.70	2.67	2.83	Trace	69.0	-	I. A.
198	2055.6-2057.0	1.4	0.06	0.04	-0.1	0.08	8.1	11.34	2.59	2.82	Trace	61.7	-	I.
CORE NO. 58 2057' - 2076' (Rec. 19.0') (4 boxes)														
199	2057.0-2058.5	1.5	0.23	0.08	-0.1	0.35	2.9	4.35	2.85	2.94	0.0	13.8	-	I. A.
200	2058.5-2059.6	1.1	-0.1	-0.1	-0.1	-	9.7	10.67	2.57	2.85	Trace	55.5	-	I.
201	2059.6-2060.6	1.0	0.09	0.07	-0.1	0.09	8.5	8.50	2.59	2.83	Trace	61.1	-	I.
202	2060.6-2061.6	1.0	0.07	0.05	-0.1	0.07	11.7	11.70	2.51	2.85	Trace	49.6	-	I.
-	2061.6-2061.8	0.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-0.1	-0.1	-	Anhydrite
203	2061.8-2063.4	1.6	0.10	0.08	-0.1	0.16	11.7	18.72	2.49	2.82	Trace	30.8	-	I.
204	2063.4-2065.1	1.7	0.08	0.05	-0.1	0.14	10.0	17.00	2.54	2.82	Trace	58.0	-	I. A.
205	2065.1-2066.8	1.7	0.07	0.04	-0.1	0.12	7.6	12.92	2.59	2.81	Trace	79.0	-	I.

SAMPLE NUMBER	DEPTH REPRESENTED - FEET -	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 58 (cont'd)														
206	2066.8-2068.6	1.8	0.04	0.04	-0.1	0.07	9.1	16.38	2.57	2.83	Trace	66.0	-	1. A. Stylol.
207	2068.6-2069.9	1.3	0.73	0.07	-0.1	0.95	9.1	11.83	2.58	2.84	Trace	63.8	-	1. A.
208	2069.9-2071.1	1.2	-0.1	-0.1	-0.1	-	8.3	9.96	2.59	2.83	Trace	72.5	-	1.
209	2071.1-2072.3	1.2	0.72	0.05	-0.1	0.86	7.4	8.88	2.59	2.79	Trace	86.5	-	1. Stylol.
210	2072.3-2073.7	1.4	0.76	0.63	-0.1	1.06	9.6	13.44	2.53	2.80	Trace	78.0	-	1.
211	2073.7-2074.9	1.2	0.34	0.31	-0.1	0.41	10.5	12.60	2.49	2.79	Trace	76.1	-	1.
212	2074.9-2076.0	1.1	0.22	0.20	-0.1	0.24	12.0	13.20	2.50	2.84	Trace	62.5	-	1. Stylol.
CORE NO. 59 2076' - 2095' (Rec. 19.5') (5 boxes)														
213	2076.0-2077.4	1.4	0.19	0.08	-0.1	0.27	10.2	14.28	2.54	2.83	Trace	28.4	-	1. Stylol.A.
214	2077.4-2078.8	1.4	0.10	-0.1	-0.1	0.14	5.0	7.00	2.60	2.74	Trace	60.0	-	1. Stylol.
215	2078.8-2079.8	1.0	0.20	0.18	-0.1	0.20	10.4	10.40	2.54	2.83	Trace	48.0	-	1.
216	2079.8-2081.1	1.3	0.33	0.26	-0.1	0.43	10.4	13.52	2.52	2.81	Trace	62.0	-	PPV. 1.
217	2081.1-2082.1	1.0	3.3	3.0	0.11	3.30	15.1	15.10	2.39	2.82	Trace	62.8	0.11	PPV. 1.
218	2082.1-2083.2	1.1	10.	9.8	-0.1	11.00	15.3	16.83	2.38	2.81	Trace	62.0	-	PPV.1.Sty.
219	2083.2-2084.2	1.0	9.4	4.1	0.58	9.40	14.0	14.00	2.42	2.81	Trace	62.7	0.58	PPV. 1. Sty.
220	2084.2-2085.6	1.4	1.0	0.90	0.21	1.40	13.7	19.18	2.43	2.81	Trace	33.6	0.29	PPV. 1. Sty.
221	2085.6-2086.9	1.3	0.53	0.53	0.16	0.69	11.7	15.21	2.47	2.80	Trace	59.8	0.21	1. Stylol.
222	2086.9-2087.9	1.0	0.65	0.30	0.57	0.65	12.8	12.80	2.46	2.82	Trace	62.6	0.57	1. Stylol.
223	2087.9-2089.2	1.3	0.66	0.44	-0.1	0.86	11.3	14.69	2.49	2.81	Trace	64.5	-	1. Stylol.
224	2089.2-2090.4	1.2	0.63	0.51	0.63	0.76	13.0	15.60	2.47	2.84	Trace	57.5	0.76	1. Stylol.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		28-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 59 (cont'd)														
225	2090.4-2092.0	1.6	1.4	0.81	-0.1	2.24	14.0	22.40	2.43	2.83	Trace	32.7	-	PPV.1.Sty.
226	2092.0-2093.1	1.1	1.0	0.89	0.70	1.10	12.2	13.42	2.42	2.75	Trace	52.7	0.77	PPV.1.Sty.
227	2093.1-2094.3	1.2	0.57	0.27	-0.1	0.68	7.9	9.48	2.49	2.70	Trace	76.0	-	PPV.1.Sty.
228	2094.3-2095.5	1.2	2.6	0.28	0.21	3.12	7.3	8.76	2.54	2.74	Trace	76.7	0.25	PPV.1.Sty.
CORE NO. 60 2095' - 2125' (Rec. 25.5') (6 boxes) (0.5' over recovery from Core No. 59)														
229	2095.5-2097.1	1.6	1.0	0.93	-0.1	1.60	8.3	13.28	2.56	2.79	Trace	72.5	-	PPV.1.Stylol.
230	2097.1-2098.4	1.3	-0.1	-0.1	-0.1	-	7.2	9.36	2.57	2.77	Trace	77.3	-	1.
231	2098.4-2099.8	1.4	0.14	0.10	-0.1	0.20	8.9	12.46	2.53	2.78	Trace	63.0	-	Few PPV.1.Sty.
232	2099.8-2101.3	1.5	1.4	0.81	-0.1	2.10	11.5	17.25	2.46	2.77	Trace	52.2	-	PPV.1.Stylol.
233	2101.3-2102.6	1.3	1.7	1.1	0.09	2.21	12.1	15.73	2.45	2.79	Trace	56.1	0.12	PPV.1.Stylol.
234	2102.6-2103.7	1.1	1.4	1.3	0.11	1.54	11.6	12.76	2.44	2.76	Trace	60.4	0.12	PPV. 1. Sty.
235	2103.7-2104.8	1.1	2.4	1.4	0.17	2.64	13.9	15.29	2.38	2.77	Trace	48.8	0.19	PPV.1.Sty.
236	2104.8-2105.9	1.1	0.10	0.10	-0.1	0.11	9.7	10.67	2.51	2.78	5.1	6.17	-	1. Stylol.
237	2105.9-2107.1	1.2	-0.1	-0.1	-0.1	-	8.4	10.08	2.54	2.77	6.0	74.0	-	1. Stylol
238	2107.1-2108.3	1.2	0.08	0.08	-0.1	0.10	8.2	9.84	2.54	2.77	Trace	70.5	-	1. Stylol.
239	2108.3-2109.8	1.5	0.06	0.04	-0.1	0.09	8.4	12.60	2.55	2.79	Trace	76.2	-	1. Stylol.
240	2109.8-2110.8	1.0	0.77	0.77	0.08	0.77	8.6	8.60	2.54	2.78	Trace	68.8	0.08	PPV. 1.
241	2110.8-2111.9	1.1	0.07	0.03	-0.1	0.08	6.9	7.59	2.57	2.76	Trace	58.0	-	SV. PPV. 1.
242	2111.9-2112.9	1.0	0.25	0.19	0.08	0.25	8.1	8.10	2.52	2.75	Trace	54.3	0.08	Few SV.1.Sty.
243	2112.9-2114.0	1.1	0.27	0.25	-0.1	0.30	9.8	10.78	2.49	2.76	Trace	51.0	-	Few SV. 1.Sty.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	17-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		28-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
244	2114.0-2115.3	1.3	0.23	0.15	0.13	0.30	12.0	15.60	2.44	2.77	Trace	45.2	0.17	Few SV. I.
-	2115.3-2115.7	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
245	2115.7-2117.3	1.6	0.26	0.15	-0.1	0.42	10.2	16.32	2.47	2.75	Trace	63.6	-	I.Stylol.
246	2117.3-2118.0	0.7	2.2	1.8	-0.1	1.54	9.4	6.58	2.45	2.70	Trace	38.3	-	PPV. I. Sty.
247	2118.0-2119.0	1.0	0.10	0.05	-0.1	0.10	10.3	10.30	2.48	2.76	Trace	48.5	-	I.
248	2119.0-2120.0	1.0	0.03	0.03	-0.1	0.03	8.9	8.90	2.50	2.75	Trace	29.3	-	I.Stylol.
249	2120.0-2121.0	1.0	0.73	0.63	-0.1	0.73	10.0	10.00	2.49	2.77	Trace	56.0	-	I. Stylol.
-	2121.0-2125.0	4.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 61 2125' - 2152' (Rec. 24.7') (6 boxes)														
250	2125.0-2126.5	1.5	-0.1	-0.1	-0.1	-	7.4	11.10	2.52	2.72	Trace	67.7	-	I. Stylol.
251	2126.5-2127.1	0.6	1.8	1.3	0.13	1.08	7.6	4.56	2.49	2.70	Trace	52.5	0.08	PPV.I.Sty.F.
252	2127.1-2128.1	1.0	-0.1	-0.1	-0.1	-	5.2	5.20	2.57	2.71	Trace	82.5	-	I. Stylol.
253	2128.1-2130.3	2.2	0.06	0.02	-0.1	0.13	6.3	13.86	2.55	2.73	Trace	54.1	-	I.
254	2130.3-2131.2	0.9	0.66	0.36	-0.1	0.59	8.0	7.20	2.49	2.71	Trace	62.5	-	PPV. I.
255	2131.2-2132.1	0.9	0.75	0.57	0.05	0.68	10.3	9.27	2.45	2.73	0.0	33.0	0.05	Few PPV. I.Sty.
256	2132.1-2132.6	0.5	0.46	0.41	0.10	0.23	9.9	4.94	2.49	2.76	Trace	34.4	0.05	PPV. I.
257	2132.6-2134.2	1.6	-0.1	-0.1	-0.1	-	5.9	9.44	2.55	2.71	Trace	57.5	-	I. Stylol.
258	2134.2-2136.3	2.1	-0.1	-0.1	-0.1	-	4.9	10.29	2.59	2.72	Trace	68.5	-	I. Stylol.
-	2136.3-2136.6	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
259	2136.6-2137.3	0.7	0.27	0.16	0.06	0.19	8.6	6.02	2.48	2.71	Trace	34.9	0.04	PPV. I.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		28-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
Core No. 61 (cont'd)														
260	2137.3-2138.0	0.7	-0.1	-0.1	-0.1	-	9.3	6.51	2.49	2.75	Trace	40.8	-	Few PPV.1.Sty.
261	2138.0-2139.5	1.5	0.04	-0.1	-0.1	0.06	7.1	10.65	2.52	2.71	Trace	67.6	-	1. Stylol.
262	2139.5-2141.5	2.0	0.03	0.03	-0.1	0.06	6.2	12.40	2.55	2.72	Trace	67.6	-	1. Stylol.
263	2141.5-2143.4	1.9	0.04	0.02	-0.1	0.08	6.5	12.35	2.55	2.73	Trace	77.0	-	1. Stylol.
-	2143.4-2143.6	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed
264	2143.6-2145.3	1.7	0.18	0.14	-0.1	0.31	7.7	13.09	2.50	2.71	Trace	70.2	-	1. Stylol.
265	2145.3-2145.9	0.6	0.06	0.06	-0.1	0.04	6.9	4.14	2.50	2.68	0.0	71.2	-	PPV. 1.
266	2145.9-2146.9	1.0	0.44	0.37	0.19	0.44	9.1	9.10	2.49	2.74	Trace	44.5	0.19	Few SV.1.Sty.
267	2146.9-2148.3	1.4	0.07	0.03	-0.1	0.10	7.1	9.94	2.54	2.74	0.0	56.5	-	1. Stylol.
268	2148.3-2149.7	1.4	0.12	0.08	-0.1	0.17	7.5	10.50	2.50	2.70	Trace	42.7	-	1. Stylol.
-	2149.7-2152.0	2.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 62 2152' - 2182' (Rec. 8.4') (2 boxes)														
269	2152.0-2155.0	3.0	-0.1	-0.1	-0.1	-	5.8	17.40	2.58	2.74	Trace	82.5	-	1. Stylol.
270	2155.0-2155.7	0.7	-0.1	-0.1	-0.1	-	7.3	5.11	2.49	2.69	Trace	54.7	-	SV. PPV.1.
271	2155.7-2157.0	1.3	-0.1	-0.1	-0.1	-	6.7	8.71	2.54	2.72	Trace	47.7	-	1. Stylol.
272	2157.0-2158.2	1.2	-0.1	-0.1	-0.1	-	5.5	6.60	2.57	2.72	Trace	61.8	-	1. Stylol.
273	2158.2-2160.0	1.8	-0.1	-0.1	-0.1	-	6.4	11.52	2.54	2.71	Trace	53.1	-	1. Stylol.
274	2160.0-2160.4	0.4	-0.1	-0.1	-0.1	-	6.2	2.48	2.53	2.70	Trace	64.5	-	1. Stylol.
-	2160.4-2182.0	21.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
CORE NO. 63 2182' - 2200' (REC. 14.5') (BOXES)														
-	2182.0-2182.7	0.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
275	2182.7-2183.1	0.4	0.11	0.11	-0.1	0.044	6.2	2.48	2.49	2.66	-1.0	-1.0	-	1. Few SV.
276	2183.1-2183.6	0.5	0.05	0.02	-0.1	0.025	4.3	2.15	2.52	2.63	Trace	42.0	-	1. STY.
277	2183.6-2184.4	0.8	0.26	0.21	-0.1	0.208	2.3	1.84	2.58	2.64	Trace	53.2	-	PPV. STY.
278	2184.4-2185.3	0.9	0.16	0.05	-0.1	0.144	7.5	6.75	2.45	2.65	Trace	36.3	-	1. PPV. STY.
-	2185.3-2185.6	0.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2185.6-2185.8	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2185.8-2186.0	0.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
279	2186.0-2187.5	1.5	0.16	0.16	-0.1	0.240	11.6	17.40	2.44	2.76	0.0	52.6	-	1.
280	2187.5-2189.0	1.5	0.10	0.05	-0.1	0.150	7.7	11.55	2.55	2.76	Trace	45.3	-	1.
-	2189.0-2193.7	4.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
281	2193.7-2194.5	0.8	0.85	0.48	-0.1	0.680	1.1	0.88	2.78	2.81	0.0	37.2	-	Few SV.
282	2194.5-2195.5	1.0	1710.	33.	-0.1	1710.0	5.1	5.10	2.55	2.69	Trace	73.2	-	SV.
283	2195.5-2196.5	1.0	**	0.86	-0.1	0.860	3.8	3.80	2.56	2.66	Trace	71.4	-	SV.
-	2196.5-2199.0	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 64 2200' - 2219' (REC. 20') (5 BOXES)														
284	2199.0-2200.0	1.0	0.27	0.27	-0.1	0.270	3.3	3.30	2.61	2.70	Trace	34.3	-	SV.
285	2200.0-2200.5	0.5	0.14	0.11	-0.1	0.070	0.7	0.35	2.68	2.70	Trace	25.0	-	Few PPV.
-	2200.5-2202.1	1.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
286	2202.1-2203.0	0.9	0.02	-0.1	-0.1	0.018	1.7	1.53	2.74	2.78	Trace	88.5	-	1.
-	2203.0-2204.9	1.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
287	2204.9-2205.4	0.5	0.05	0.02	-0.1	0.025	3.4	1.70	2.59	2.68	-1.0	-1.0	-	1. Few PPV.
288	2205.4-2207.0	1.6	0.03	0.02	-0.1	0.048	0.9	1.44	2.85	2.88	0.0	72.5	-	Dense A.
289	2207.0-2208.2	1.2	0.02	0.02	-0.1	0.024	1.1	1.32	2.74	2.77	Trace	82.3	-	1.
290	2208.2-2209.0	0.8	0.03	0.03	-0.1	0.024	1.1	0.88	2.71	2.74	5.2	49.0	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	PERMEABILITY TO AIR HORIZONTAL K 90°	PERMEABILITY TO AIR VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75	
														Columns 76-77 (01)	
CORE NO. 64 (Cont'd)															
-	2209.0-2211.7	2.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
291	2211.7-2212.8	1.1	0.72	0.48	-0.1	0.792	3.1	3.41	2.61	2.70	Trace	56.5	-		PPV.
-	2212.8-2213.3	0.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
292	2213.3-2213.6	0.3	2.3	2.2	-0.1	0.690	6.7	2.01	2.64	2.83	-1.0	-1.0	-		1. PPV. A.
-	2213.6-2214.2	0.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
293	2214.2-2214.8	0.6	1.7	1.2	-0.1	1.02	8.5	5.10	2.58	2.82	Trace	66.7	-		1. A.
294	2214.8-2215.6	0.8	12.	11.	9.5	9.60	15.4	12.32	2.35	2.78	Trace	44.1	7.60		1. PPV.
295	2215.6-2216.4	0.8	7.0	6.0	4.9	5.60	14.8	11.84	2.38	2.79	Trace	43.6	3.92		1. PPV.
296	2216.4-2217.2	0.8	4.5	3.6	2.7	3.60	13.3	10.64	2.43	2.80	Trace	41.9	2.16		1. PPV.
297	2217.2-2218.2	1.0	485.	23.	2.8	485.0	13.7	13.70	2.39	2.77	Trace	34.4	2.80	1	1.
298	2218.2-2219.0	0.8	24.	24.	5.2	19.2	17.6	14.08	2.29	2.78	Trace	50.6	4.16		1. PPV.
CORE NO. 65 2219' - 2238' (REC. 18.5') (4 BOXES)															
-	2219.0-2219.7	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-			Rubble
299	2219.7-2220.6	0.9	7.1	2.3	-0.1	6.39	7.4	6.66	2.50	2.70	Trace	61.3	-	1	1. PPV.
300	2220.6-2221.2	0.6	5.1	4.8	0.95	3.06	14.2	8.52	2.37	2.76	Trace	34.8	0.570		1. PPV.
301	2221.2-2222.0	0.8	10.	8.2	2.0	1.60	16.1	12.88	2.32	2.77	Trace	34.6	1.60		1. PPV.
302	2222.0-2222.7	0.7	44.	38.	11.	30.8	19.7	13.79	2.22	2.77	Trace	65.2	7.7		1. PPV.
303	2222.7-2223.4	0.7	38.	37.	15.	26.6	16.9	11.83	2.31	2.78	Trace	35.8	10.5		1. PPV.
304	2223.4-2224.1	0.7	27.	26.	6.3	18.9	14.4	10.08	2.38	2.78	Trace	32.7	4.41		1. PPV.
305	2224.1-2224.7	0.6	23.	23.	16.	13.8	15.6	9.36	2.36	2.80	0.0	57.3	9.6		1. PPV.
306	2224.7-2225.8	1.1	15.	14.	1.5	16.5	14.7	16.17	2.37	2.78	Trace	40.1	1.65		1. PPV.
307	2225.8-2226.6	0.8	60.	21.	1.0	48.0	15.1	12.08	2.36	2.78	Trace	67.1	0.80	1	1. PPV.
308	2226.6-2227.4	0.8	36.	24.	9.7	28.8	18.7	14.96	2.26	2.78	Trace	50.7	7.76		1. PPV.
309	2227.4-2228.0	0.6	14.	12.	4.3	8.40	15.6	9.36	2.34	2.77	Trace	50.9	2.58		1. PPV.
310	2228.0-2229.0	1.0	21.	18.	13.	21.0	17.6	17.60	2.28	2.77	Trace	55.5	13.0		1. PPV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75 Columns 76-77 (01)	
CORE NO. 65 (Cont'd)															
311	2229.0-2230.2	1.2	17.	3.7	6.9	20.4	18.1	21.72	2.23	2.73	Trace	36.7	8.28	1	1. PPV.
312	2230.2-2230.8	0.6	173.	149.	1.2	103.8	14.8	8.88	2.32	2.72	Trace	53.1	0.72	1	1. PPV.
313	2230.8-2231.9	1.1	3.3	3.2	0.54	3.63	7.8	8.58	2.57	2.79	Trace	49.1	0.594		1. PPV.
314	2231.9-2232.6	0.7	2.3	1.9	1.4	1.61	8.1	5.67	2.53	2.76	Trace	52.9	0.98		1. PPV.
315	2232.6-2233.7	1.1	0.71	0.66	-0.1	0.781	5.3	5.83	2.65	2.80	5.9	41.2	-		1.
316	2233.7-2234.3	0.6	0.76	0.61	-0.1	0.456	6.2	3.72	2.63	2.80	Trace	64.8	-		1.
317	2234.3-2235.4	1.1	0.15	0.15	-0.1	0.165	5.5	6.05	2.65	2.80	0.0	67.2	-		1.
318	2235.4-2236.1	0.7	0.38	0.28	-0.1	0.266	5.4	3.78	2.63	2.78	0.0	72.5	-		1.
-	2236.1-2237.5	1.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
-	2237.5-2238.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Lost Core
CORE NO. 66 2238' - 2257' (REC. 17.6') (4 BOXES)															
-	2238.0-2241.1	3.1	-0.1	-0.1	-0.1		-0.1	-1.0	-1.0	-1.0	-1.0	-1.0	-		Dense
319	2241.1-2241.6	0.5	0.23	-0.1	-0.1	0.115	1.5	0.75	2.74	2.78	Trace	33.3	-		PPV.
-	2241.6-2241.9	0.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
320	2241.9-2242.2	0.3	0.11	0.07	-0.1	0.033	1.0	0.30	2.73	2.76	-1.0	-1.0	-		PPV.
-	2242.2-2244.9	2.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
321	2244.9-2245.6	0.7	0.08	0.06	-0.1	0.056	2.9	2.03	2.70	2.78	9.4	60.3	-		PPV.
-	2245.6-2245.8	0.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
322	2245.8-2246.3	0.5	0.33	0.16	-0.1	0.165	7.1	3.55	2.60	2.80	6.8	48.6	-		1. PPV.
-	2246.3-2246.6	0.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
323	2246.6-2247.6	1.0	0.14	0.10	-0.1	0.140	5.8	5.80	2.65	2.81	4.9	39.9	-		1. A.
324	2247.6-2248.1	0.5	0.84	0.81	0.21	0.420	8.6	4.30	2.57	2.81	7.8	34.0	0.105		1. PPV.
325	2248.1-2249.0	0.9	3.0	1.3	0.08	2.70	7.2	6.48	2.56	2.76	4.9	62.1	0.072		1. PPV.
326	2249.0-2250.0	1.0	0.29	0.29	-0.1	0.290	5.4	5.40	2.66	2.81	Trace	59.2	-		PPV. A.
SS327	2250.0-2250.7	0.7	5.2	-1.0	-1.0	3.64	13.3	9.31	-1.0	-1.0	5.0	44.7	-		1. PPV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	PERMEABILITY TO AIR HORIZONTAL K 90°	PERMEABILITY TO AIR VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75 Columns 76-77 (01)
CORE NO. 66 (Cont'd)														
328	2250.7-2251.8	1.1	0.20	0.16	-0.1	0.220	4.1	4.51	2.68	2.80	9.1	66.7	-	1. A.
329	2251.8-2252.7	0.9	0.05	0.02	-0.1	0.045	6.0	5.40	2.53	2.80	5.0	57.4	-	1.
330	2252.7-2253.4	0.7	0.17	0.13	-0.1	0.119	8.1	5.67	2.54	2.77	Trace	78.4	-	1. PPV.
331	2253.4-2254.1	0.7	4.4	3.8	0.18	3.08	12.1	8.47	2.44	2.78	2.7	46.3	0.126	1. PPV.
332	2254.1-2254.6	0.5	0.52	0.38	-0.1	0.260	9.1	4.55	2.53	2.78	-1.0	-1.0	-	1. PPV.
SS333	2254.6-2255.2	0.6	14.	-1.0	-1.0	8.40	15.2	9.12	-1.0	-1.0	Trace	60.9	-	1. PPV.
334	2255.2-2255.6	0.4	2.0	1.8	0.57	0.800	16.1	6.44	2.28	2.71	Trace	76.5	0.228	1. PPV.
-	2255.6-2256.3	0.7	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost Core.
CORE NO. 67 2257' - 2276' (REC. 19.7') (4 BOXES)														
335	2256.3-2257.2	0.9	2.9	1.2	0.36	2.61	9.2	8.28	2.48	2.73	Trace	46.7	0.324	1. PPV.
336	2257.2-2258.3	1.1	4.0	2.2	1.0	4.40	8.0	8.80	2.52	2.74	Trace	65.7	1.10	1. PPV.
337	2258.3-2259.1	0.8	8.4	4.9	3.2	6.72	6.3	5.04	2.55	2.72	Trace	77.9	2.56	1. PPV.
338	2259.1-2260.0	0.9	2.9	1.7	0.29	2.61	8.0	7.20	2.47	2.69	Trace	61.6	0.261	1. PPV.
339	2260.0-2260.9	0.9	25.	17.	1.7	22.5	7.4	6.66	2.47	2.67	Trace	64.2	1.53	1. PPV.
340	2260.9-2261.3	0.4	2.2	1.0	-0.1	0.88	5.4	2.16	2.55	2.70	Trace	71.5	-	1. PPV.
-	2261.3-2262.1	0.8	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
341	2262.1-2263.4	1.3	2.2	1.4	0.25	2.86	5.1	6.63	2.56	2.70	Trace	84.5	0.325	1. PPV.
342	2263.4-2264.7	1.3	0.33	0.29	-0.1	0.429	4.7	6.11	2.58	2.71	Trace	69.6	-	1.
343	2264.7-2265.8	1.1	5.6	5.1	0.74	6.16	8.4	9.24	2.49	2.72	Trace	67.1	0.814	1. PPV.
344	2265.8-2266.5	0.7	7.7	2.9	0.30	5.39	7.8	5.46	2.48	2.69	Trace	62.5	0.210	1. PPV.
345	2266.5-2267.2	0.7	3820.	1730.	0.68	2674.	8.2	5.74	2.45	2.67	Trace	58.4	0.476	1. PPV. Few SV.
346	2267.2-2268.0	0.8	9.2	6.6	3.0	7.36	8.9	7.12	2.48	2.72	Trace	65.8	2.40	1. PPV.
347	2268.0-2268.7	0.7	7.0	5.5	1.4	4.90	6.7	4.69	2.51	2.69	Trace	63.5	0.98	1. PPV.
348	2268.7-2269.7	1.0	11.0	9.3	0.22	11.00	7.6	7.60	2.50	2.71	3.8	54.5	0.220	1. PPV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
CORE NO. 67 (Cont'd)														
349	2269.7-2270.4	0.7	0.41	0.26	-0.1	0.287	6.7	4.69	2.51	2.69	5.7	57.4	-	1. PPV.
350	2270.4-2271.6	1.2	0.03	-0.1	-0.1	0.360	0.4	0.48	2.71	2.72	Trace	60.0	-	1. Scattered PPV.
351	2271.6-2272.4	0.8	0.25	0.25	-0.1	0.200	3.4	2.72	2.65	2.74	Trace	73.9	-	1. PPV.
352	2272.4-2273.7	1.3	0.13	0.08	-0.1	0.169	0.9	1.17	2.71	2.73	Trace	66.6	-	Dense
353	2273.7-2274.8	1.1	0.31	0.27	-0.1	0.341	7.4	8.14	2.58	2.79	6.6	71.0	-	1.
354	2274.8-2276.0	1.2	0.15	0.13	-0.1	0.180	3.4	4.08	2.63	2.72	Trace	57.9	-	1.
CORE NO. 68 2276' - 2295' (REC. 19.0') (4 BOXES)														
355	2276.0-2276.5	0.5	0.39	0.19	-0.1	0.195	4.0	2.00	2.65	2.76	Trace	64.6	-	1. Few SV.
-	2276.5-2276.7	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
356	2276.7-2277.0	0.3	0.08	0.08	-0.1	0.024	2.0	0.60	2.71	2.77	Trace	80.4	-	1.
357	2277.0-2277.9	0.9	0.04	-0.1	-0.1	0.036	2.3	2.07	2.71	2.78	0.0	75.1	-	1.
358	2277.9-2278.3	0.4	0.38	0.05	-0.1	0.152	1.8	0.72	2.74	2.79	0.0	80.6	-	PPV.
-	2278.3-2286.3	8.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
359	2286.3-2287.4	1.1	*	0.08	*	0.088	3.4	3.74	2.66	2.76	Trace	53.2	-	1 PPV.
360	2287.4-2288.5	1.1	0.46	0.05	0.07	0.506	0.7	0.77	2.70	2.72	Trace	64.9	0.077	1 Dense
-	2288.5-2292.8	4.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
361	2292.8-2293.9	1.1	0.04	0.02	-0.1	0.044	1.4	1.54	2.76	2.80	Trace	84.9	-	1.
362	2293.9-2295.0	1.1	0.14	0.04	-0.1	0.154	6.1	6.71	2.61	2.78	Trace	85.0	-	1.
CORE NO. 69 2295' - 2314' (REC. 19.5') (4 BOXES)														
SS363	2295.0-2295.6	0.6	0.05	-1.0	-1.0	0.030	6.0	3.60	-1.0	-1.0	Trace	56.4	-	1.
364	2295.6-2296.5	0.9	*	0.28	*	0.252	8.5	7.65	2.50	2.73	Trace	42.7	-	1 1. PPV.
365	2296.5-2297.6	1.1	-0.1	-0.1	-0.1	-	5.4	5.94	2.60	2.75	Trace	59.6	-	1.
-	2297.6-2298.7	1.1	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75	
														Columns 76-77 (01)	
CORE NO. 69 (Cont'd)															
366	2298.7-2299.8	1.1	0.03	0.03	-0.1	0.033	3.0	3.30	2.59	2.67	Trace	82.4	-		1. Scattered PPV.
367	2299.8-2300.6	0.8	0.04	0.04	-0.1	0.032	3.1	2.48	2.66	2.74	Trace	70.1	-		1. Scattered PPV.
368	2300.6-2301.4	0.8	-0.1	-0.1	-0.1	-	0.5	0.40	2.71	2.72	Trace	78.7	-		Scattered PPV.
-	2301.4-2304.7	3.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
369	2304.7-2305.4	0.7	*	0.28	*	0.196	3.2	2.24	2.63	2.72	Trace	52.5	-	1	1. Scattered PPV.
-	2305.4-2307.2	1.8	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
370	2307.2-2308.7	1.5	0.26	0.26	-0.1	0.390	4.6	6.90	2.59	2.71	Trace	69.3	-		1.
-	2308.7-2311.6	2.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
371	2311.6-2312.4	0.8	*	0.23	*	0.184	4.3	3.44	2.54	2.65	Trace	65.7	-	1	1. Scattered PPV.
372	2312.4-2313.5	1.1	14.	0.05	-0.1	15.4	3.2	3.52	2.57	2.66	Trace	63.0	-	1	1. Scattered PPV.
373	2313.5-2314.5	1.0	0.25	0.07	16.	0.250	2.9	2.90	2.60	2.68	Trace	45.6	16.0	1	1.
CORE NO. 70 2314' - 2333' (REC. 13.2') (3 BOXES)															
-	2314.5-2314.7	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client
374	2314.7-2316.7	2.0	16.	0.78	21.	32.0	3.5	7.00	2.55	2.64	Trace	48.9	42.0	1	1.
-	2316.7-2316.9	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client.
375	2316.9-2317.9	1.0	27.	-0.1	142.	27.0	2.8	2.80	2.58	2.65	Trace	67.5	142.0	1	1.
-	2317.9-2318.1	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client.
376	2318.1-2319.7	1.6	75.	0.02	62.	120.0	2.5	4.00	2.61	2.68	Trace	60.9	99.2	1	1. Scattered PPV.
-	2319.7-2319.9	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client.
377	2319.9-2320.3	0.4	0.77	-0.1	3.8	0.308	1.2	0.48	2.61	2.64	Trace	61.2	1.52	1	1.
378	2320.3-2320.9	0.6	0.23	0.23	-0.1	0.138	5.0	3.00	2.53	2.66	Trace	69.3	-		1.
-	2320.9-2321.2	0.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-		Removed by Client.
379	2321.2-2322.1	0.9	41.	-0.1	3.1	36.9	3.1	2.79	2.59	2.67	0.0	39.1	2.79	1	1.
380	2322.1-2322.5	0.4	-0.1	-0.1	-0.1	-	1.2	0.48	2.72	2.75	Trace	54.1	-		1.
-	2322.5-2327.7	5.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.		VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		75 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)			
													Columns 76-77 (01)		
CORE NO. 70 (Cont'd)															
-	2327.7-23293.	1.6	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	-	Lost Core
CORE NO. 71 2333' - 2349' (REC. 19.7') (4 BOXES)															
-	2329.3-2332.1	2.8	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
SS381	2332.1-2333.0	0.9	-0.1	-1.0	-1.0	-	1.3	1.17	-1.0	-1.0	Trace	41.7	-		1.
382	2333.0-2334.5	1.5	230.	66.	483.	345.0	4.9	7.35	2.56	2.69	0.0	80.4	724.5	1	1.
383	2334.5-2335.9	1.4	-0.1	-0.1	-0.1	-	2.1	2.94	2.65	2.71	Trace	75.9	-		Scattered PPV.
-	2335.9-2338.4	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
384	2338.4-2339.8	1.5	-0.1	-0.1	-0.1	-	0.5	0.75	2.68	2.69	Trace	83.5	-		Scattered PPV.
385	2339.8-2341.0	1.2	-0.1	-0.1	-0.1	-	0.5	0.60	2.67	2.68	0.0	75.9	-		Scattered PPV.
386	2341.0-2342.0	1.0	-0.1	-0.1	-0.1	-	0.4	0.40	2.68	2.69	0.0	81.0	-		Dense
387	2342.0-2343.0	1.0	0.14	-0.1	-0.1	0.140	1.1	1.10	2.59	2.62	Trace	67.7	-		Few SV.
-	2343.0-2346.5	3.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
388	2346.5-2347.9	1.4	0.10	0.10	-0.1	0.140	0.9	1.26	2.66	2.68	Trace	74.4	-		Scattered PPV.
389	2347.9-2349.0	1.1	-0.1	-0.1	-0.1	-	2.6	2.86	2.60	2.67	Trace	65.6	-		PPV.
-	2349.0-2350.0	1.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
CORE NO. 72 2350' - 2369' (REC. 19.5') (5 BOXES)															
390	2350.0-2351.6	1.6	0.43	0.17	-0.1	0.688	2.1	3.36	2.63	2.69	Trace	54.9	-	1	Part Rubble, SV.
-	2351.6-2352.3	0.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-		Dense
391	2352.3-2353.4	1.1	-0.1	-0.1	-0.1	-	0.9	0.99	2.65	2.67	Trace	47.8	-		Few PPV.
392	2353.4-2353.9	0.5	-0.1	-0.1	-0.1	-	1.0	0.50	2.62	2.65	0.0	50.0	-		PPV.
393	2353.9-2355.2	1.3	*	-0.1	*	-	2.8	3.64	2.59	2.67	Trace	59.4	-	1	PPV.
394	2355.2-2356.4	1.2	-0.1	-0.1	-0.1	-	0.8	0.96	2.67	2.69	Trace	74.4	-		Scattered PPV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 72 (Cont'd)														
395	2356.4-2357.6	1.2	*	-0.1	*	-	1.7	2.04	2.60	2.64	Trace	65.5	-	1.
SS396	2357.6-2358.6	1.0	-0.1	-1.0	-1.0	-	2.9	2.90	-1.0	-1.0	Trace	65.7	-	1.
SS397	2358.6-2359.3	0.7	0.02	-1.0	-1.0	0.014	3.2	2.24	-1.0	-1.0	Trace	44.7	-	1.
-	2359.3-2369.5	10.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 73 2369' - 2377' (REC. 7.3') (2 BOXES)														
-	2369.5-2376.8	7.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Anhydrite
-	2376.8-2377.0	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost Core
-	2377.0-2380.0	3.0	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled
CORE NO. 74 2380' - 2399' (REC. 19.0') (4 BOXES)														
398	2380.0-2380.8	0.8	-0.1	-0.1	-0.1	-	0.8	0.64	2.76	2.78	0.0	20.0	-	Scattered PPV.
399	2380.8-2381.5	0.7	0.16	0.16	-0.1	0.112	1.6	0.112	2.59	2.63	Trace	37.5	-	PPV.
400	2381.5-2382.5	1.0	0.71	0.37	-0.1	0.710	0.9	0.90	2.75	2.77	0.0	30.7	-	Scattered PPV. A.
401	2382.5-2383.1	0.6	-0.1	-0.1	-0.1	-	0.7	0.42	2.63	2.65	0.0	30.7	-	Scattered PPV.
402	2383.1-2383.8	0.7	-0.1	-0.1	-0.1	-	0.4	0.28	2.65	2.66	0.0	40.1	-	Dense
403	2383.8-2384.4	0.6	0.05	-0.1	-0.1	0.030	0.4	0.24	2.74	2.76	0.0	50.1	-	Dense
-	2384.4-2390.6	6.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Anhydrite
404	2390.6-2391.5	0.9	0.05	0.03	-0.1	0.045	1.8	1.62	2.62	2.67	0.0	57.7	-	PPV.
405	2391.5-2392.4	0.9	-0.1	-0.1	-0.1	-	0.2	0.18	2.61	2.67	0.0	54.7	-	Scattered PPV.
406	2392.4-2393.3	0.9	-0.1	-0.1	-0.1	-	0.5	0.45	2.61	2.62	Trace	76.2	-	Dense
407	2393.3-2394.6	1.3	0.09	0.09	-0.1	0.117	3.9	5.07	2.63	2.74	Trace	80.1	-	1.
408	2394.6-2395.6	1.0	-0.1	-0.1	-0.1	-	1.5	1.50	2.66	2.70	Trace	76.4	-	1.
409	2395.6-2396.8	1.2	-0.1	-0.1	-0.1	-	1.3	1.56	2.53	2.56	Trace	82.4	-	1.
410	2396.8-2397.8	1.0	0.05	0.05	-0.1	0.050	2.7	2.70	2.52	2.59	Trace	78.4	-	1.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75	
													Columns 76-77 (01)	
CORE NO. 74 (Cont'd)														
411	2397.8-2399.0	1.2	-0.1	-0.1	-0.1	-	0.7	0.84	2.67	2.68	Trace	71.9	-	Scattered PPV.
CORE NO. 75 2399' - 2419' (REC. 19.5') (4 BOXES)														
412	2399.0-2399.8	0.8	-0.1	-0.1	-0.1	-	0.8	0.64	2.56	2.56	Trace	71.1	-	Scattered PPV.
413	2399.8-2400.5	0.7	-0.1	-0.1	-0.1	-	0.7	0.49	2.52	2.54	Trace	72.5	-	Scattered PPV.
414	2400.5-2401.3	0.8	0.05	0.04	-0.1	0.040	8.3	6.64	2.42	2.64	Trace	79.4	-	I.
415	2401.3-2402.1	0.8	-0.1	-0.1	-0.1	-	0.6	0.48	2.61	2.63	0.0	60.0	-	Scattered PPV.
416	2402.1-2403.5	1.4	-0.1	-0.1	-0.1	-	1.0	1.40	2.58	2.61	0.0	63.5	-	Few PPV.
-	2403.5-2404.5	1.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2404.5-2404.6	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2404.6-2405.5	0.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
417	2405.5-2406.8	1.3	-0.1	-0.1	-0.1	-	1.6	2.08	2.63	2.67	0.0	58.6	-	Few PPV.
-	2406.8-2408.4	1.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
418	2408.4-2409.6	1.2	-0.1	-0.1	-0.1	-	1.2	1.44	2.68	2.71	Trace	62.1	-	Scattered PPV.
419	2409.6-2410.9	1.3	-0.1	-0.1	-0.1	-	1.2	1.56	2.64	2.68	0.0	58.8	-	Scattered PPV.
420	2410.9-2412.0	1.1	-0.1	-0.1	-0.1	-	1.5	1.65	2.63	2.67	0.0	53.6	-	PPV.
421	2412.0-2412.9	0.9	-0.1	-0.1	-0.1	-	1.4	1.26	2.62	2.66	0.0	56.7	-	PPV.
422	2412.9-2413.6	0.7	0.04	-0.1	-0.1	0.028	0.3	0.21	2.61	2.62	Trace	61.8	-	Scattered PPV.
-	2413.6-2413.7	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
423	2413.7-2414.9	1.2	-0.1	-0.1	-0.1	-	1.9	2.28	2.62	2.67	0.0	63.0	-	PPV.
424	2414.9-2415.9	1.0	-0.1	-0.1	-0.1	-	1.5	1.50	2.60	2.64	0.0	60.7	-	PPV.
-	2415.9-2416.0	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2416.0-2418.5	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 76 2419' - 2438' (REC. 19.5') (4 BOXES)														
425	2418.5-2419.7	1.2	-0.1	-0.1	-0.1	-	3.4	4.08	2.61	2.70	0.0	54.3	-	PPV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 76 (Cont'd)														
426	2419.7-2421.2	1.5	-0.1	-0.1	-0.1	-	2.6	3.90	2.60	2.67	0.0	58.4	-	PPV.
-	2421.2-2421.4	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2421.4-2421.9	0.5	-0.1	-0.1	-0.1	-	3.4	1.70	2.61	2.70	-	-	-	PPV. AST # 425.
-	2421.9-2422.1	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed By Client.
427	2422.1-2423.3	1.2	0.02	-0.1	-0.1	0.024	2.4	2.88	2.60	2.67	Trace	57.5	-	PPV.
428	2423.3-2424.7	1.4	0.01	-0.1	-0.1	0.014	2.2	3.08	2.57	2.63	Trace	61.9	-	PPV.
429	2424.7-2426.5	1.8	-0.1	-0.1	-0.1	-	3.8	6.08	2.61	2.72	Trace	69.7	-	I.
430	2426.5-2428.0	1.5	-0.1	-0.1	-0.1	-	4.7	7.05	2.64	2.77	Trace	75.0	-	I.
431	2428.0-2429.4	1.4	-0.1	-0.1	-0.1	-	4.2	5.88	2.62	2.74	Trace	83.4	-	I.
432	2429.4-2430.3	0.9	-0.1	-0.1	-0.1	-	3.3	2.97	2.63	2.72	Trace	61.8	-	I.
-	2430.3-2431.4	1.1	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
433	2431.4-2432.7	1.3	0.05	0.03	-0.1	0.065	6.5	8.45	2.55	2.73	Trace	79.1	-	I.
434	2432.7-2433.9	1.2	0.06	0.04	-0.1	0.072	6.6	7.92	2.57	2.75	Trace	85.6	-	I.
435	2433.9-2435.1	1.2	0.16	0.08	-0.1	0.192	8.6	10.32	2.52	2.76	Trace	75.0	-	I.
436	2435.1-2436.3	1.2	0.21	0.08	-0.1	0.252	9.3	11.16	2.49	2.75	Trace	78.3	-	I. Few PPV.
437	2436.3-2438.0	1.7	0.02	0.01	-0.1	0.034	4.5	7.65	2.55	2.67	Trace	63.9	-	I.
CORE NO. 77 2438' - 2458' (REC. 19.7') (4 BOXES)														
438	2438.0-2439.2	1.2	0.09	0.05	-0.1	0.108	8.1	9.72	2.51	2.73	Trace	77.7	-	I. Scattered PPV.
-	2439.2-2441.2	2.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2441.2-2441.4	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
439	2441.4-2442.6	1.2	-0.1	-0.1	-0.1	-	0.4	0.48	2.68	2.69	Trace	78.1	-	Scattered PPV.
440	2442.6-2444.3	1.7	-0.1	-0.1	-0.1	-	1.3	2.21	2.66	2.69	Trace	80.0	-	I.
441	2444.3-2445.6	1.3	-0.1	-0.1	-0.1	-	0.8	1.04	2.64	2.66	Trace	75.6	-	Dense
442	2445.6-2446.5	0.9	-0.1	-0.1	-0.1	-	0.6	0.54	2.67	2.68	Trace	74.4	-	Dense

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)	74 75 Columns 76-77 (01)	
CORE NO. 77 (Cont'd)														
-	2446.5-2446.7	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
443	2446.7-2447.7	1.0	-0.1	-0.1	-0.1	-	0.6	0.60	2.66	2.68	Trace	74.8	-	Dense
-	2447.7-2447.9	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
444	2447.9-2449.3	1.4	-0.1	-0.1	-0.1	-	1.5	2.10	2.64	2.68	0.0	62.9	-	PPV.
-	2449.3-2449.5	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
445	2449.5-2450.4	0.9	-0.1	-0.1	-0.1	-	0.9	0.81	2.64	2.66	0.0	58.6	-	Few PPV.
446	2450.4-2451.8	1.4	-0.1	-0.1	-0.1	-	1.0	1.40	2.59	2.62	0.0	73.6	-	Scattered PPV.
-	2451.8-2457.7	5.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
CORE NO. 78 2458' - 2477' (REC. 19.3') (4 BOXES)														
-	2457.7-2460.4	2.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
447	2460.4-2461.7	1.3	-0.1	-0.1	-0.1	-	1.2	1.56	2.60	2.63	0.0	63.0	-	Scattered PPV.
448	2461.7-2463.1	1.4	-0.1	-0.1	-0.1	-	0.8	1.12	2.65	2.67	Trace	63.7	-	Scattered PPV.
-	2463.1-2463.4	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2463.4-2467.7	4.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2467.7-2467.8	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2467.8-2470.0	2.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
449	2470.0-2471.1	1.1	-0.1	-0.1	-0.1	-	1.6	1.76	2.60	2.64	0.0	45.1	-	PPV.
450	2471.1-2471.9	0.8	-0.1	-0.1	-0.1	-	1.0	0.80	2.64	2.67	0.0	54.2	-	PPV.
-	2471.9-2472.0	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
451	2472.0-2473.6	1.6	-0.1	-0.1	-0.1	-	1.2	1.92	2.61	2.64	Trace	60.6	-	PPV.
-	2473.6-2474.5	0.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2474.5-2474.7	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2474.7-2476.3	1.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2476.3-2476.4	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2476.4-2477.0	0.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL K MAX	PERMEABILITY TO AIR HORIZONTAL K 90°	PERMEABILITY TO AIR VERTICAL	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. X FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

CORE NO. 79 2477' - 2496' (REC. 19.7') (4 BOXES)

-	2477.0-2478.3	1.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2478.3-2478.4	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
452	2478.4-2479.5	1.1	-0.1	-0.1	-0.1	-	1.3	1.41	2.62	2.65	0.0	50.0	-	PPV.
453	2479.5-2480.6	1.1	-0.1	-0.1	-0.1	-	1.1	1.21	2.65	2.68	0.0	60.7	-	PPV.
454	2480.6-2481.3	0.7	-0.1	-0.1	-0.1	-	1.2	0.84	2.64	2.67	0.0	58.3	-	PPV.
-	2481.3-2483.7	2.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
455	2483.7-2485.5	1.8	-0.1	-0.1	-0.1	-	1.1	1.98	2.60	2.63	0.0	58.6	-	PPV.
-	2485.5-2487.0	1.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2487.0-2487.2	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2487.2-2490.5	3.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2490.5-2490.6	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2490.6-2492.1	1.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2492.1-2492.4	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client.
-	2492.4-2493.3	0.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
-	2493.3-2493.4	0.1	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
-	2493.4-2496.7	3.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense

* - Broken or fractured core: ** - Permeability greater than 30,000 md: SS. - Small Sample: PPV. - Pin Point Vugs: I.-Intergranular:
sty. - Stylolite: A. - Anhydrite: & - Full Diameter Analysis: SV. - Small Vugs: F. - Fractured: AST. - Appears Similar to: V. - Vugular:

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - BANFF OIL LTD.
Well - SOGEPET AQUIT KASKATTAMA PROV NO. 1
Field - WILDCAT, MANITOBA
Location - LSD 57 04.00" N.L.
90 09.00" W.L.

Date Report - JANUARY 11, 1967
Formation -
D. Fluid - WATER BASE
Analysis - FULL DIAMETER

Page - 1 of 6
File - CNP-4-3507
Analysts - MM RC JH RT
Core - DIAMOND CORES

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORED INTERVAL 2496' - 2880'														
CORE NO. 80 2496' - 2516' (Rec. 19.6') (4 Boxes)														
-	2496.0-2498.0	2.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
1	2498.0-2499.1	1.1	0.03	0.03	-0.1	0.033	0.4	0.44	2.63	2.64	0.0	80.8	-	Few PPV.
-	2499.1-2499.6	0.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
2	2499.6-2501.2	1.6	0.06	0.01	-0.1	0.096	0.4	0.64	2.65	2.66	0.0	79.2	-	Few PPV.
-	2501.2-2502.8	1.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
3	2502.8-2505.8	3.0	0.03	0.02	-0.1	0.090	0.4	1.20	2.65	2.66	0.0	77.2	-	PPV.
-	2505.8-2506.4	0.6	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
4	2506.4-2508.8	2.4	0.03	0.01	-0.1	0.072	0.3	0.72	2.66	2.67	0.0	81.3	-	PPV.
-	2508.8-2509.2	0.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
5	2509.2-2510.6	1.4	0.04	0.01	-0.1	0.056	0.5	0.70	2.64	2.65	0.0	80.9	-	PPV.
6	2510.6-2512.7	2.1	0.01	-0.1	-0.1	0.021	0.3	0.63	2.65	2.66	0.0	71.4	-	PPV.
-	2512.7-2514.0	1.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
-	2514.0-2514.2	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
-	2514.2-2515.6	1.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
-	2515.6-2516.0	0.4	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core
CORE NO. 81 2516' - 2535' (Rec. 19.7') (4 Boxes)														
-	2516.0-2516.9	0.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
-	2516.9-2517.1	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24 (16) (23)	25-29 (28)	30-37 (35)	38-45 (43)	46-53 (51)		54-57 (56)		58-61 (59)	62-65 (63)	66-69 (68)	70-73 (72)		74 75
														Columns 76-77 (01)
CORE NO. 81 (Cont'd.)														
-	2517.1-2518.9	1.8	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
7	2518.9-2520.9	2.0	0.02	0.01	-0.1	0.040	0.4	0.80	2.66	2.67	0.0	83.2	-	PPV.
-	2520.9-2524.6	3.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
8	2524.6-2525.8	1.2	0.03	-0.1	-0.1	0.036	0.4	0.48	2.65	2.66	0.0	75.0	-	PPV.
-	2525.8-2526.8	1.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few SV.
-	2526.8-2527.0	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
9	2527.0-2529.8	2.8	0.04	0.03	-0.1	0.112	0.3	0.84	2.65	2.67	0.0	81.0	-	PPV.
-	2529.8-2530.7	0.9	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
10	2530.7-2535.7	5.0	0.04	-0.1	-0.1	0.200	0.3	1.50	2.65	2.66	0.0	84.2	-	PPV.
-	2535.7-2536.0	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Drilled
CORE NO. 82 2536' - 2556' (Rec. 19.7') (4 Boxes)														
11	2536.0-2538.1	2.1	-0.1	-0.1	-0.1	-	0.6	1.26	2.66	2.67	0.0	83.5	-	PPV.
-	2538.1-2538.4	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
-	2538.4-2539.4	1.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
12	2539.4-2540.6	1.2	0.02	0.02	-0.1	0.024	0.7	0.84	2.65	2.67	0.0	77.3	-	PPV.
-	2540.6-2543.0	2.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
-	2543.0-2543.2	0.2	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Removed by Client
13	2543.2-2544.8	1.6	0.03	0.01	-0.1	0.048	0.7	1.12	2.64	2.66	0.0	84.0	-	PPV.
14	2544.8-2546.0	1.2	0.05	-0.1	-0.1	0.060	1.0	1.20	2.64	2.66	0.0	84.5	-	PPV.
15	2546.0-2547.3	1.3	0.03	0.02	-0.1	0.039	0.8	1.04	2.64	2.66	0.0	77.3	-	PPV.
16	2547.3-2548.7	1.4	0.02	0.02	-0.1	0.028	0.7	0.98	2.66	2.68	0.0	77.7	-	PPV.
17	2548.7-2550.6	1.9	0.05	0.01	-0.1	0.255	0.4	2.04	2.66	2.67	Trace	70.8	-	PPV.
-	2550.6-2555.7	5.1	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
-	2555.7-2556.0	0.3	-1.0	-1.0	-1.0	-	-1.0	-	-1.0	-1.0	-1.0	-1.0	-	Lost core

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		

Columns 76-77 (01)

CORE NO. 83 2556' - 2575' (Rec. 19.7') (4 Boxes)

-	2556.0-2565.4	9.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
18	2565.4-2566.7	1.3	-0.1	-0.1	-0.1	-	0.4	0.52	2.65	2.66	Trace	82.5	-	Dense
-	2566.7-2571.0	4.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
19	2571.0-2573.2	2.2	-0.1	-0.1	-0.1	-	0.5	1.10	2.66	2.67	0.0	79.3	-	Dense
-	2573.2-2575.7	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.

CORE NO. 84 2575' - 2594' (Rec. 19.7') (4 Boxes)

20	2575.7-2576.9	1.2	-0.1	-0.1	-0.1	-	0.5	0.60	2.65	2.66	0.0	83.9	-	Dense
-	2576.9-2579.4	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
21	2579.4-2581.4	2.0	0.01	-0.1	-0.1	0.020	0.5	1.00	2.67	2.68	0.0	87.2	-	Dense
-	2581.4-2585.8	4.4	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
22	2585.8-2586.6	0.8	20.	0.10	-0.1	16.0	2.8	2.24	2.59	2.67	0.0	65.0	-	PPV.
-	2586.6-2588.7	2.1	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Few PPV, Dense
23	2588.7-2589.3	0.6	0.03	-0.1	-0.1	0.018	0.5	0.30	2.68	2.69	0.0	76.5	-	Dense
-	2589.3-2593.5	4.2	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Few PPV.
24	2593.5-2594.4	0.9	0.14	0.05	-0.1	0.126	0.6	0.54	2.69	2.70	0.0	76.5	-	Dense
-	2594.4-2595.4	1.0	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.

CORE NO. 85 2594' - 2614' (Rec. 19.7') (4 Boxes)

-	2595.4-2597.9	2.5	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
SS25	2597.9-2600.7	2.8	-0.1	-1.0	-1.0	-	1.8	7.84	-1.0	-1.0	0.0	72.2	-	Rubble
-	2600.7-2605.0	4.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
26	2605.0-2606.0	1.0	0.28	0.27	-0.1	0.280	1.1	1.10	2.67	2.70	0.0	62.0	-	PPV
27	2606.0-2606.8	0.8	0.12	0.10	-0.1	0.096	1.5	1.20	2.66	2.70	0.0	55.0	-	PPV.
28	2606.8-2607.4	0.6	0.13	0.10	-0.1	0.078	1.7	1.02	2.66	2.71	0.0	73.9	-	Few SV. Sty.
29	2607.4-2607.8	0.4	0.09	0.09	-0.1	0.036	1.0	0.40	2.70	2.73	0.0	87.6	-	PPV.

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

BANFF OIL LTD.
SOGEPET AQUIT KASKATTAMA PROV NO. 1

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR (HORIZONTAL) K MAX	K 90°	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	DENSITY GRAIN	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VERT. PERM. × FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73		74 75
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
														Columns 76-77 (01)
CORE NO. 85 (Cont'd.)														
-	2607.8-2608.1	0.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense, Scat. PPV.
30	2608.1-2608.8	0.7	0.55	0.21	-0.1	0.385	2.2	1.54	2.67	2.73	0.0	80.0	-	PPV.
31	2608.8-2610.3	1.5	0.07	0.07	-0.1	0.105	0.8	1.20	2.74	2.76	0.0	69.0	-	PPV.
32	2610.3-2611.1	0.8	0.07	0.07	-0.1	0.056	0.5	0.40	2.72	2.73	0.0	65.4	-	PPV.
33	2611.1-2612.2	1.1	0.07	0.04	-0.1	0.077	1.0	1.10	2.73	2.76	0.0	50.0	-	PPV.
34	2612.2-2613.3	1.1	0.11	0.04	-0.1	0.121	1.1	1.21	2.69	2.72	0.0	85.0	-	PPV.
35	2613.3-2614.3	1.0	0.11	0.11	-0.1	0.110	1.6	1.60	2.69	2.73	0.0	60.7	-	PPV.
36	2614.3-2615.1	0.8	0.02	-0.1	-0.1	0.016	0.6	0.48	2.72	2.74	0.0	80.0	-	PPV.
CORE NO. 86 2614' - 2634' (Rec. 19.7') (4 Boxes)														
-	2615.1-2616.2	1.1	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
37	2616.2-2617.4	1.2	0.11	-0.1	-0.1	0.132	1.4	1.68	2.74	2.76	0.0	79.0	-	PPV.
38	2617.4-2619.0	1.6	0.11	0.05	-0.1	0.176	1.2	1.92	2.71	2.73	0.0	75.0	-	PPV.
39	2619.0-2619.9	0.9	0.06	0.03	-0.1	0.054	1.1	0.99	2.73	2.76	0.0	81.0	-	PPV. Sty.
40	2619.9-2620.6	0.7	0.32	0.28	-0.1	0.224	1.3	0.91	2.69	2.72	0.0	76.2	-	I.
41	2620.6-2621.2	0.6	0.33	0.33	-0.1	0.198	1.5	0.90	2.65	2.69	0.0	74.3	-	Few SV.
-	2621.2-2621.9	0.7	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
42	2621.9-2622.4	0.5	0.15	0.15	-0.1	0.075	1.3	0.65	2.69	2.70	0.0	88.2	-	PPV. Sty.
-	2622.4-2623.7	1.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
43	2623.7-2625.4	1.7	0.03	0.02	-0.1	0.051	0.5	0.85	2.71	2.72	0.0	86.9	-	Few PPV.
44	2625.4-2627.1	1.7	0.18	0.04	-0.1	0.306	1.1	1.87	2.70	2.73	0.0	71.0	-	PPV.
45	2627.1-2628.4	1.3	4.0	0.08	-0.1	5.20	1.1	1.43	2.78	2.81	0.0	77.0	-	PPV. F.
46	2628.4-2628.9	0.5	0.03	0.03	-0.1	0.015	1.1	0.55	2.74	2.76	0.0	80.0	-	PPV.
47	2628.9-2629.4	0.5	0.59	0.19	-0.1	0.295	0.9	0.45	2.73	2.76	Trace	81.4	-	I.
48	2629.4-2629.7	0.3	1.4	0.41	-0.1	0.42	4.6	1.38	2.51	2.73	Trace	81.4	-	SV.
49	2629.7-2630.4	0.7	14.	0.09	-0.1	9.8	1.6	1.12	2.71	2.75	Trace	88.5	-	I.
50	2630.4-2631.3	0.9	0.06	0.04	-0.1	0.054	1.7	1.53	2.66	2.71	Trace	89.7	-	SV.

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY TO AIR HORIZONTAL) K MAX	K 90°)	VERTICAL	PERM. × FEET	POROSITY PER CENT	POROSITY × FEET	DENSITY BULK	GRAIN	RESIDUAL SATURATION OIL % PORE	TOTAL WATER % PORE	VERT. PERM. x FT.	VISUAL EXAMINATION
	11-17 18-24	25-29	30-37	38-45	46-53		54-57		58-61	62-65	66-69	70-73	74 75	
	(16) (23)	(28)	(35)	(43)	(51)		(56)		(59)	(63)	(68)	(72)		
													Columns 76-77 (01)	
CORE NO. 86 (Cont'd.)														
51	2631.3-2632.0	0.7	3.4	0.81	-0.1	2.38	2.0	1.40	2.62	2.67	Trace	78.0	-	1. PPV.
52	2632.0-2633.1	1.1	**	1.9	-0.1	2.09	2.9	3.19	2.68	2.76	Trace	75.0	-	SV.
53	2633.1-2633.6	0.5	0.12	0.08	-0.1	0.060	0.9	0.45	2.72	2.75	Trace	86.4	-	Few SV.
54	2633.6-2634.2	0.6	0.10	0.05	-0.1	0.060	0.6	0.36	2.71	2.73	Trace	85.9	-	PPV.
55	2634.2-2634.8	0.6	1.3	0.25	-0.1	0.78	0.9	0.54	2.72	2.75	Trace	83.9	-	1 PPV. Sty.
CORE NO. 87 2634' - 2653' (Rec. 19.6') (4 Boxes)														
56	2634.8-2636.3	1.5	2690.	0.10	-0.1	4035.0	1.9	2.85	2.66	2.71	Trace	88.0	-	SV. PPV. Sty.
57	2636.3-2637.2	0.9	0.53	-0.1	-0.1	0.477	1.0	0.90	2.75	2.78	Trace	82.8	-	PPV. Sty.
58	2637.2-2637.8	0.6	0.03	0.03	-0.1	0.018	0.7	0.42	2.73	2.75	Trace	83.4	-	PPV.
-	2637.8-2644.6	6.8	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
59	2644.6-2645.2	0.6	0.03	0.02	-0.1	0.018	0.3	0.18	2.80	2.81	0.0	89.7	-	Few PPV.
-	2645.2-2648.5	3.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense
SS60	2648.5-2649.1	0.6	-0.1	-1.0	-1.0	-	2.4	1.44	-1.0	-1.0	Trace	89.0	-	1.
-	2649.1-2654.4	5.3	-0.1	-0.1	-0.1	-	-0.1	-	-1.0	-1.0	-1.0	-1.0	-	Dense

THE FOLLOWING CORES WERE DENSE AND NOT ANALYZED

CORE NO. 88 2653' - 2669' (Rec. 16.0') (4 Boxes)
CORE NO. 89 2670' - 2689' (Rec. 19.0') (4 Boxes)
CORE NO. 90 2689' - 2709' (Rec. 19.5') (4 Boxes)
CORE NO. 91 2709' - 2729' (Rec. 19.7') (4 Boxes)
CORE NO. 92 2729' - 2748' (Rec. 19.5') (4 Boxes)
CORE NO. 93 2748' - 2768' (Rec. 19.5') (4 Boxes)
CORE NO. 94 2768' - 2777' No Recovery
CORE NO. 95 2777' - 2785' (Rec. 8.0') (2 Boxes)
CORE NO. 96 2785' - 2800' (Rec. 15.0') (3 Boxes)

The following cores were dense and not analyzed (Continued)

CORE NO. 97	2800' - 2819'	(Rec. 19.0')	(4 Boxes)
CORE NO. 98	2819' - 2838'	(Rec. 19.5')	(4 Boxes)
CORE NO. 99	2838' - 2857'	(Rec. 18.5')	(4 Boxes)
CORE NO. 100	2858' - 2877'	(Rec. 19.5')	(4 Boxes)
CORE NO. 101	2877' - 2880'	(Rec. 2.8')	(1 Box)

PPV. - Pin point vugs
SV. - Small vugs
SS. - Small sample

I. - Intergranular
Sty. - Stylolite
Scat. - Scattered

** - Permeability greater than 30,000 md.

BANFF OIL LTD.

1. Total Solids 451,969 mg/liter 2. pH [illegible] 3. S.G. 1.3259 @60°F.

4. Resistivity .097 Ohm-meters @ 75 °F

Spectrographic - Trace Element Analysis of Ordovician sample #1, (File Nº CBH -2 - 1020)

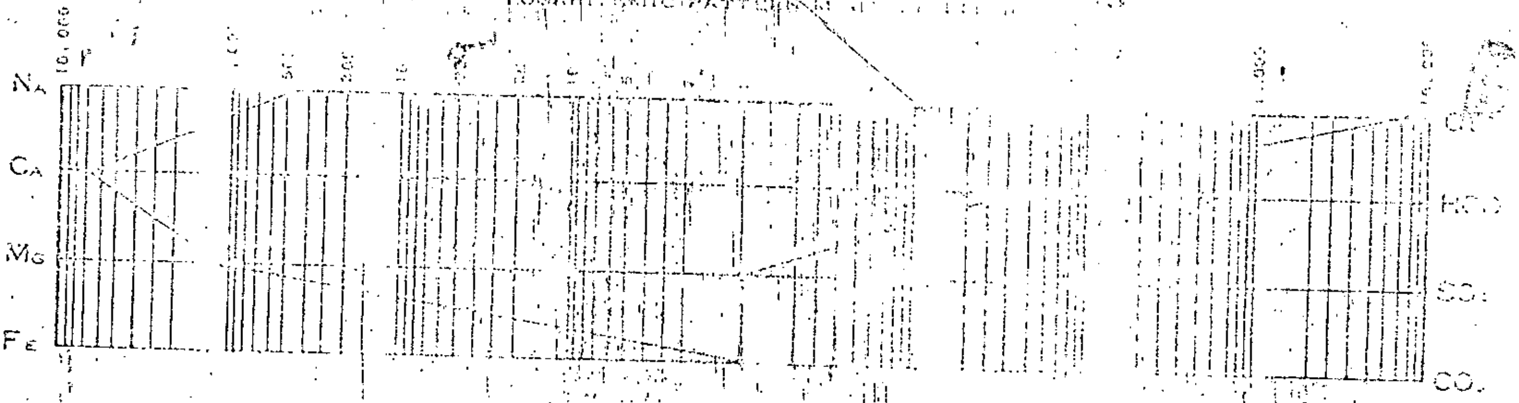
MILLIGRAMS PER LITER

Na & K	Ca	Mg	Fe	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OH	
10697	12[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Absent	

MEQ PER LITER

465.1	6402.5	1034.3	Absent	Absent	[illegible]	7885.[illegible]	[illegible]	[illegible]	Absent	Absent	

LOGARITHMIC PATTERN



PHONE: CITY 6-4111
CABLE ADDRESS "ELDRICO"

TO:

Core Laboratories Co. Ltd.,

2425 - 2 A Street S.E.

Calgary, Alberta

ATTENTION: Mr. J. Garner

FILE No. C.3-C.1-67-32824

DATE March 10, 1967

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

COAST ELDRIDGE

ENGINEERS & CHEMISTS LTD.
125 EAST 4TH AVE. VANCOUVER 10. CANADA

All results expressed in parts per million

We Hereby Certify *that the following are the results of semi quantitative spectrographic analyses made on* _____ *samples submitted.*

SAMPLE IDENTIFICATION	Al	Sb	As	Ba	Be	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe
Calcium Solution No. 1020	225	ND	ND	ND	ND	ND	600	ND	100,000	ND	1.5	1.5	ND	ND	120

SAMPLE IDENTIFICATION	Pb	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sr	Ta	Sn	Ti	W	V	Zn
	ND	16,000	ND	ND	ND	ND	200	ND	1,500	ND	ND	1.5	ND	ND	ND

ND - NOT DETECTED

/jp

Note: Rejects retained one week.
Pulps retained three months.

COAST ELDRIDGE ENGINEERS & CHEMISTS LTD.

CHIEF CHEMIST

C-95

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. One

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
0	20	D				Sand, fine grained, quartzose, sub-round, unconsolidated, fairly well sorted with granules of gneiss, mafic schist, limestone-sub-round/rounded.
20	25	D				Pebble conglomerate (3'), round to sub-rounded pebbles and granules of gneiss/mafic schist/foliated quartz dolomite, rounded grains of various types of limestone, partly rotted. Limestone (2'), buff/cream partly weathered yellow, fine/very fine calcarenite to murox lime mud. Slightly dolomite 5% slightly bioclastic with scattered crinoid stems. Poor to fair pin-point and intergranular porosity.
25	30	D	2'			Limestone, buff/cream occasionally weathered yellow brown, fine/very fine calcarenite, to murox/microgranular lime mud. Slightly dolomitic 5% with scattered white chalky matrix. Scattered corals, brachiopods, ostracods. Fair to locally good, intercrystalline porosity, to dense in microx lime mud.
30	35	D	2'			Limestone buff/cream, fine calcarenite (50%), interbedded with finely granular/xln lst. (20%) and microx calcilutites (30%) partially bioclastic, fossiliferous with brachiopods, corals crinoids, ostracods. Fair to poor intergranular/intercrystalline porosity with occasional microvugs. Slightly dolomitic 5%.
35	40	D	4'			Limestone buff/cream occasional light brown, fine to very fine calcarenite (60%) partially bioclastic with brachiopods (Productella, Atrypa), corals, crinoids, very poor intergranular porosity with fair vuggy porosity, vugs partially infilled with calcite xls. and drusy lining. Calcisiltite, (20%) coarse varying to fine granular to fine saccaroidal, fair to good intercrystalline porosity. Calcilutite (20%), microxl cpxln, dense with occasional pin-point to microvugs. Slightly dolomitic 5%.
40	45	D	4'			Limestone, buff/light tan occasional very light grey. Fine to very calcarenite (60%), partially bioclastic, fossiliferous, brachiopods (Atrypa) crinoid. Poor/v poor intergranular porosity with scattered fair vuggy porosity. Then interbeds (20%) microgranular to coarse calcisiltite, light grey/very light grey, bioclastic (? ostracods) with fair/good intergranular porosity. Slightly dolomitic 5%.
45	50	D	4'			Limestone, calcilutite (60%). Buff/light ran/very light grey with poor/very poor pin-point and microvug porosity.

SAMPLES NOT LAGGED

BANFF OIL LTD.

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. TWO

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
						Scattered crinoid stems. Interbedded with light grey, very finely granular limestones, 20% partially fragmented and bioclastic with fair/good intergranular porosity. Calcarenite, light brown, fine/very fine, bioclastic with scattered poor/fair vuggy porosity. Slightly dolomitic 10%
50	55	D	3'			Limestone, calcilutite, (60%) buff/very light brown, scattered very poor pin-point porosity, scattered brachiopods/crinoids. Interbedded calcarenite (30%) light brown, fine/very fine, partially bioclastic poor/fair intergranular vuggy porosity with some infilling coarse calcite crystals. Limestone, very finely granular (10%) light grey, fair intergranular porosity. Slightly dolomitic 10%.
55	60	D	3'			Limestone, calcilutite (60%) buff/light brown, scattered poor pin-point to microvuggy porosity. Calcarenite (30%) light brown, partially bioclastic, fine/very fine, poor/fair intergranular/vuggy porosity. Granular limestone 10% light grey, fine/very fine, with fair intergranular porosity. Slightly dolomitic 10%.
60	65	D	2'			Limestone, calcilutite (70%) buff/light brown, occasional light grey, dense with scattered micro-vugs. Calcarenite buff/light grey brown, fine calcarenite with finely granular/microgranular matrix, fair/poor intergranular/microvuggy porosity. Slightly dolomitic 10%.
65	67	D				Limestone as above.
						Core #1 67-72' 5' cut 1' recovered
67	68	C	1'			Limestone, calcilutite buff/light grey brown, dense, brecciated and shattered, highly inclined which gives general appearance of steep dips infilled with light grey/buff, microgranular/earthy, dolomitic limestone (15%) with fair/good intercrystalline and vuggy porosity. Fossiliferous (Spirifer).
						Coring times 10, 12, 16, 3, 14
72	75					Limestone, calcilutite (70%) cryptocrystalline/microcrystalline, buff/light brown, scattered brachiopod fragments. Scattered microvugs. Calcarenite (30%) buff/very light grey, slightly dolomitic 15%, very slightly silty (L2%). Poor/fair intergranular/vuggy porosity. Scattered tinges of reddish brown staining.

SAMPLES NOT LAGGED

BANFF OIL LTD.

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. Three

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
70	75	D	2'			Calcilutite (70%) buff/light brown scattered tinges reddish brown, cryptocrystalline/microcrystalline. Scattered poor micro-vuggy porosity. Calcarenite/granular lst., (30%) buff/light grey, fine/locally fine sucrosic. Scattered brachiopod fragments. Fair/good intercrystalline/vuggy porosity, partial infilling of vugs by mud/coarse crystals calcite.
75	80	D	2'			Calcilutite (70%) buff/light brown occasional light grey, cryptocrystalline/microcrystalline. Scattered poor micro-vuggy porosity. Fine calcarenite to fine/very finely granular (30%), buff/cream light grey, poor/fair intergranular and vuggy porosity. Dolomitic 30%, slightly argillaceous (5%). Scattered crinoid fragments.
80	85	D	2'			Calcilutite (70%) buff/light brown, occasional light grey microcrystalline/cryptocrystalline. Scattered very poor micro-vuggy porosity, very slightly argillaceous (L2%). Granular limestone (30%), buff/cream light grey, very fine/fine, locally finely sucrosic. Poor/fair intergranular/vuggy porosity. Crinoid ossicles, brachiopods, spicules. Slightly dolomitic (5%).
85	90	D	3'			Calcilutite (60%) buff/light brown occasional light grey, microcrystalline/cryptocrystalline. Scattered poor micro-vuggy porosity, slightly dolomitic (5%). Granular limestone (40%) buff/light grey very fine/fine/microgranular, locally sucrosic, variably dolomitic (5-30%). Poor/fair intergranular/vuggy porosity, tan traces? bitumen. (Numerous granules lst. mafic schist, quartz, gneiss - from drift?) Brachiopod fragments.
90	93	D	3'			Limestone light grey/cream, microcrystalline/microgranular locally very finely granular occasional light brown finely sucrosic, dolomitic (20%). Poor intergranular porosity with occasional vugs. Patially chalky. Calcilutite buff/light brown, occasional reddish specks, cryptocrystalline/microcrystalline. Scattered hereatite grains. Very poor pin point porosity. Brachiopod and crinoid fragments.

Core #2 93-100 7' cut recovered 2'

SAMPLES NOT LAGGED

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
93	95	C	1'			Limestone buff/light grey-brown, cryptocrystalline/microcrystalline to locally very finely calcarenitic. Slightly dolomitic (5%). Very fossiliferous primarily brachiopod fragments. Scattered pin-point and micro-vuggy porosity. Brecciated and fractured. Limestone buff/light brown, micro-granular/earthy infilling fractures. dolomitic (20% Partially chalky. Poor occasional fair vuggy porosity, vugs partially infilled calcite crystals. Fairly numerous brachiopods. Inclined bedding? Coring Times 10, 7-3-2, 1, 1, 5
						Core #3 100-102 2' cut recqvered 1.5'
100	101	C	0.5			Calcilutite - light grey-brown/buff, cryptocrystalline to occasional very finely calcarenitic. Fossiliferous. Fractures and brecciated recemented. Scattered vugs Brecciation infilled with limestone buff/light grey-brown micro-granular to earthy. Dolomitic 20%. Slightly chalky Poor pin-point/vuggy porosity with poor intergranular/earthy porosity. Fossiliferous - brachiopods coral (Thamnopora). Bedding questionably inclined - micro-granular lst. as thin interbeds, infilling brecciation. Coring Times 15-7
						Core #4 102-106' 4' cut recovered 2'
102	104	C	1'			Limestone grey-brown/buff/light brown, cryptocrystalline/microcrystalline, slightly dolomitic (5%). Dense to rare pin-point porosity. Brecciated and infilled with limestone, bugg light grey-brown, micro-granular/earthy pt. chalky; dolomitic 20%. Slightly fossiliferous. Very poor/poor pin-point/vuggy porosity occasionally becoming fair intergranular porosity. Breccia frequently subject to solution and recrystallisation creating a slight aureole effect. Coring Times 5-10; 5, 5

SAMPLES NOT LAGGED

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. Five

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
106	110	D				Calcilutite (60%) light brown/buff/light brown-grey, microcrystalline/cryptocrystalline. Slightly dolomitic. Scattered brachiopods, crinoids. Poor pin-point to micro-vuggy porosity. Limestone (40%) cream light grey, microgranular/very finely granular with occasional scattered medium/fine grains carbonate. Very slightly argillaceous. Slightly dolomitic 10%. Poor intergranular/vuggy porosity.
110	115	D				Limestone (60%) cream/buff, micro-granular to occasional very fine granular. Variably dolomitic (5-30%). Scattered spicules, ostracods, brachiopods fragments, crinoids variably silty/argillaceous (5-20%). Scattered poor/very poor intergranular/vuggy porosity. Calcilutite (40%) light brown/buff, slightly dolomitic microcrystalline, brachiopod fragments - scattered poor vuggy porosity.
115	120	D				Limestone 60% cream/buff microgranular to finely granular. Variably dolomitic (5-30%) occasional grading dolomite. Scattered specules, ostracods, brachiopods, crinoids, variably argillaceous (2-10%). Very poor/poor intergranular/vuggy porosity. Calcilutite (40%) light brown/buff, microcrystalline/cryptocrystalline, slightly dolomitic 5% brachiopod fragments, scattered poor micro-vuggy porosity.
120	125	D				Limestone (50%) cream/buff, microgranular/very fine granular, with organic fragments, ostracods/brachiopods/gastropods crinoids. Slightly dolomitic (5%), very slightly silty (5%) grading limestone (20%), medium brown grey; very fine granular/microgranular, silty (25%). Slightly dolomitic (5%). Tasmanitids. Calcilutite (30%) buff occasional light grey, bioclastic, slightly dolomitic. Poor pin-point/micro-vuggy porosity occasional very poor intergranular.
125	130	D				Limestone buff/cream (70%) micro-granular/very fine granular partly very fine/finely sucrosic; grading partly fine/very fine calcarenite. Bioclastic with ostracods/corals/crinoids/brachiopods calcispheres. Slightly dolomitic (5%). Variably silty L5-10%. Poor occasionally fair intergranular porosity locally vuggy calcilutite (30% light brown/buff, microcrystalline/cryptocrystalline.
130	135	D				Limestone buff/light grey/grey-brown, microgranular/very fine granular, bioclastic with ostracods/brachiopods/spines. Scattered poor pin-point to vuggy porosity with scattered poor/occasional fair intergranular porosity. Slightly dolomitic (5%) variably argillaceos 5-20%. Silty 5-20%. Calcilutite (10%) light brown/buff as above.

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GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Six

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
135	140	D				Limestone (90%) light grey/grey-brown/buff. Microgranular/occasional very fine granular; bioclastic, ostracods/spines crinoids/brachiopods. Argillaceous (5-20%). Silty (5-20%) Slightly dolomitic, (5%). Generally dense with scattered vugs and occasionally poor/fair intergranular porosity. Scattered pyrite globules. Thin calcilutite (10%) microcrystalline, as above.
140	145	D				Limestone (100%) light grey/grey-brown/buff, microgranular/very fine granular, locally grading finely calcarenitic, bioclastic, ostracods/spines/crinoids/brachiopods (Atrypa?) Argillaceous - variably 2-10%. Poor occasional fair intergranular and pin-point porosity, scattered vugs with calate crystals, occastionally quartz and pyrite.
145	150	D				Limestone light grey/buff rarely grey-brown; microgranular/very fine granular, bioclastic increasingly calcarenitic very fine/fine. Slightly argillaceous (L5%). Ostracods/spines crinoids/brachiopods. Poor pin-point/vuggy porosity locally fair occasional good intergranular porosity.
150	155	D				Limestone (60%) light grey/buff/occasional grey-brown, microgranular/very fine granular, partly sucrosic, slightly argillaceous (L5%), poor intergranular/scattered vuggy porosity locally becoming fair intergranular. Scattered brachiopods crinoids/ostracods/spines. Calcarenite (30%) buff/light grey, very fine/fine, dense with scattered vugs. Calcilutite (10%) buff dense: Pyrite.
155	156	D				Clay, cream/buff, calcareous 25% dolomitic 20%. Soft, good porosity.
						Core No. 5 156-169' 13' cut 7' recovered
156	163	C				Clay buff/cream /very light grey, calcareous (25-30%) soft becoming slightly harder 158-163. No apparent bedding, locally nodular and irregular. Partly brecciated towards base with inclusion of limestone light grey-brown, microcrystalline/cryptocrystalline, dolomitic 20%, fossiliferous. Pyrite accretions and disseminated throughout basal 0.5'.
						Coring Times 8, 9, 11, 12, 8, 8, 10, 10, 6, 7, 12, 10, 15.

SAMPLES NOT LAGGED

BANFF OIL LTD.

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. Seven

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
169	170	C D				Clay (70%) light grey/buff, calcareous (25-30%) slightly dolomitic 10% fairly soft, Interbedded lst., microgranular fairly hard, slightly argillaceous (L5%) dense. Traces pyrite.
170	175	C				No sample.
175	180	C				Limestone (90%), buff/cream: cryptocrystalline; clay (30%) Very slightly dolomitic. Partly slightly nodular: lst. (10%) light grey-brown, microgranular with pyrite accretions.
180	185	C				Limestone (70%) buff/light tan, cryptocrystalline, clay 30% Very slightly nodular. lst (30%) microgranular/very finely calcarenitic, very light grey-brown, bioclastic argillaceous 20%. Scattered pyrite.
185	186	C				Limestone as above.
						Core No. 6 186-197' 11' cut 2' recovered
186	188	C				Clay, calcareous, light buff. Occasional slightly yellowish, earthy, poorly compacted, partly nodular/variably with harder clay limestone. Balls. Fair to good porosity very low permeability.
						Coring Times 5, 3, 3, 4, 3, 2 2 2 2 7, 11.
197	200	D				Limestone (10%) buff/light tan, cryptocrystalline, clay (30%). Fairly soft. Limestone, very light grey microcrystalline/cryptocrystalline, hard, clean, partly vuggy. Pyrite with fine occasional medium sucrosic limestone 10% light grey-brown, well cemented with chalky micrite (5%) dense, pyritic.
200	205	D				Limestone (70%) light grey/light grey-brown, fine crystals occasionally medium crystalline, sucrosic, partly translucent. Well cemented chalky micrite (10%). Generally dense with scattered vugs. Pyrite. Lst. (30%) microcrystalline/cryptocrystalline, very light grey/buff dense.
205	210	D				Limestone (70%) grey, Finely crystalline occasionally very fine/microcrystalline/occasional medium crystalline, sucrosic, generally well cemented white micrite (10%), locally finely vuggy to light brown/buff (30%) finely xln, sucrosic, with some white micrite cement (2%) with

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. Eight
						poor/fair intercrystalline porosity.
210	215	D				Limestone (70%) grey fine/ very finely crystalline, sucrosic, generally well cemented white micrite (10%), partially recrystallised to light brown/buff lst. (30%) finely xln, sucrosic with some white micrite cement (2%), partly recrystallised with poor/fair intercrystalline locally vuggy porosity.
215	220	D				Limestone (75%) grey, very finely xln, locally finely xln, sucrosic well cemented white micrite (5%) and partially recrystallised. Interbedded limestone 20% grey/light grey, microcrystalline, argillaceous (5-10%). Limestone (5%) light brown, very finely xln, sucrosic.
220	225	D				Limestone (60%) grey, microcystalline/microgranular: argillaceous (10%) dense partly very finely sucrosic (10%) Limestone (30%) brown/light brown, microcrystalline/finely /very fine xln, sucrosic, partially recrystallised, poor occasionally fair intergranular porosity in coarser segments.
225	230	D				Limestone (60%) grey, microcrystalline/microgranular, argillaceous partly finely sucrosic with white micrite cement. Scattered pyrite. Limestone (40%) light brown/ brown, microcrystalline. Locally very fine/finely xln, sucrosic, with poor/fair intergranular porosity.
230	235	D				Limestone (60%), light grey/grey, microcrystalline/microgranular , argillaceous. (10-20%) dense. Limestone light brown, microcrystalline to locally finely sucrosic/calcarenitic, (20%), well cemented light grey micrite (10-15%) dense.
235	240	D				Limestone (60%) light grey/grey, microcrystalline/microgranular, argillaceous (10-20%) becoming locally fine/very fine calcarenitic partly sucrosic, partly oolitic, generally dense with infilling of white/buff micrite. Limestone light brown/brown grey, microcrystalline to finely calcarenite. Scattered very poor vuggy porosity. Traces pyrite
240	245	D				Limestone (70%) grey/light grey microcrystalline/microgranular, argillaceous (10-20%) interbedded lst., grey, fine/very fine calcarenitic, partly oolite, well cemented micrite (10%). Limestone brown/brown-grey microcrystalline, locally recrystalled fine/medium xln with micrite infilling. Poor vuggy porosity ineffective. Disseminated pyrite. Brecciated?

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Nine
245	250	D				Limestone (80%) grey, very finely xln/partially calcarenitic/sucrosic, well cemented argillaceous micrite (20%). Generally dense with poor pin-point to intercrystalline porosity. Dissemenated pyrite interbedded with lst. grey, microcrystalline/microgranular argillaceous 10%. Limestone 20% brown/brown grey microcrystalline, locally fine/medium xln with buff micrite.
250	255	D				Limestone (80%) brown/light brown, cryptocrystalline/microcrystalline, locally becoming very finely xln partially calcarenitic/sucrosic with poor intercrystalline/scattered vuggy porosity. Limestone light grey/grey, microcrystalline/microgranular, argillaceous (10%). Brecciated?
255	260	D				Limestone (70%) brown/brown grey, partially mottled, microcrystalline/cryptocrystalline locally very finely xln - sucrosic, poor intercrystalline porosity. Limestone (30%) grey light grey, microcrystalline/microgranular argillaceous (10%).
260	265	D				Limestone (80%) brown/brown grey, partially mottled, microcrystalline/cryptocrystalline, locally very finely xln - sucrosic, pyrite. Limestone (20%) grey/light grey, microcrystalline/microgranular, slightly argillaceous (5%) - have reddish hematite staining. Brecciated? Dense with small vugs and intercrystalline porosity.
265	266	D				Limestone as above.
						Core No. 7 266-270' 4' cut 2' recovered
266	268	C				Limestone light grey/grey, cryptocrystalline, slightly argillaceous (5%), brecciated and intermixed with light brown-grey/buff limestone cryptocrystalline, dense, in filled by buff/light grey, earthy, calcilutite scattered vugs with inclusions of limestone, dark grey, bioclastic, slightly argillaceous and occasional rounded inclusions of buff/light grey brown, microcrystalline limestone.
						Coring Times 25, 28, 13, 11
270	275	D				Limestone (60%) brown/brown grey, microcrystalline occasionally very fine xln with scattered vuggy porosity. Limestone (30%) grey, microcrystalline/microgranular, slightly argillaceous (5%) with limestone (10%) light grey, microcrystalline/very fine crystalline.

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SAMPLES NOT LAGGED

Sheet No. Ten

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
275	280	D				Limestone (50%) brown/brown-grey microcrystalline rarely very fine crystalline occasionally light brown/buff microgranular. Limestone (40%) grey/dark grey microcrystalline/microgranular, slightly argillaceous (6%) with limestone (10%) light grey, microcrystalline/very fine crystalline; occasionally occuming as patches in brown limestone and/or with fairly sharp contacts.
280	285	D				Limestone (60%) brown/brown-grey microcrystalline, rarely very fine/fine crystalline with rare microvugs, occasional light brown/buff microgranular/very fine granular, with poor occasional porosity, partly mottled with limestone (40%) light grey/grey/occasionally dark grey, microcrystalline/occasionally very fine xln, slightly argillaceous (5%) Scattered microvugs.
285	290	D				Limestone (70%) light brown/buff occasionally, brown, microcrystalline/rarely microgranular, occasionally becomming very fine/fine crystalline. Locally poor intergranular/vuggy porosity limestone light grey/grey microcrystalline/rarely very fine crystalline, slightly argillaceous (L5%) ? corals.
290	295	D				Limestone (70%) light brown/buff, microcrystalline/partly very fine crystalline, with scattered pin-point microvuggy porosity. Limestone (30%) grey/light grey, microcrystallin e/partly microgranular, slightly argillaceous (5%), scattered small vugs. Rare crinoids/?corals. Rare patches red hematite.
295	300	D				Limestone (70%) light brown/buff, partly mottled, microcrystalline/partly very fine crystalline, scattered microvuggy porosity, locally p/fine intergranular. Limestone (30%) grey/light grey microcrystalline/partly very fine crystalline, slightly argillaceous (5%), scattered vugs, partly nodular. Brecciated ?Corals.
300	305					Limestone (60%) light brown/buff/rarely brown, microcrystalline/locally very fine/fine crystalline, partly sucrosic, rarely finely calcarenitic, scattered vuggy porosity becomming partly/fair intercrystalline where sucrosic, partly mottled with and inclusions of grey limestone. Limestone (40%) light grey/grey, microcrystalline/partly very fine crystalline. Scattered micro-vugs, slightly argillaceous (5%) Rare flourite crystals. ? Corals.
305	310	D				Limestone as above, Brecciated.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eleven
310	315	D				Limestone (60%) light brown/buff, microcrystalline/partly and very fine crystalline sucrosic, partly finely calcarenitic, poor vuggy to locally poor intercrystalline porosity. Limestone (40%) light grey/grey, microcrystalline/microgranular, slightly argillaceous (5%) scattered micro-vugs.
315	320	D				Limestone (50%) light brown/buff, microcrystalline/very fin crystalline, sucrosic, locally finely calcarenitic, poor vuggy porosity/locally intercrystalline. Limestone (50%) light grey/grey, microcrystalline/microgranular, slightly argillaceous (5%). Scattered vugs.
320	325	D				Limestone (50%) light brown/buff rarely brown, microcrystalline/partly very fine/fine crystalline, sucrosic, locally finely calcarenitic, poor vuggy porosity/locally intercrystalline. Limestone (50%) light grey/grey, microcrystalline /microgranular/rarely very fine crytalline, slightly argillaceous (5%). Brecciated, partly mottled. Scattered micro-vugs.
325	330	D				Limestone as above, Brecciated, partly mottled. Questionable coral fragments.
330	335	D				Limestone (90%) brown/light brown/rarely buff; microcrystalline/to occasionally very fine crystalline partly sucrosic rarely finely calcarenitic. Argillaceous (2%). Slightly dolomitic (5%). Traces of white anhydrite (2%). Scattered poor vuggy porosity, locally intercrystalline. Limestone (10%) grey, microcrystalline/microgranular.
335	340	D				Limestone (100%) brown/light brown/rarely buff, microcrystalline, occasionally very fine crystalline, sucrosic to partly finely calcarenitic. Very slightly argillaceous (2%). Slightly dolomitic (5-10%). Traces white anhydrite (2%). Scattered very poor micro-vugs porosity.
340	345	D				Limestone (100%) brown/light brown/rarely mottled grey-brown, microcrystalline, to occasionally very fine/finely calcarenitic partly very finely sucrosic. Slightly dolomitic (5%). Traces of white anhydrite (2%). Scattered vugs.
345	350	D				Limestone (100%) light brown/buff occasionally mottled grey brown microcrystalline to (15%) very finely crystalline with scattered inclusions of secondary coarse calcite rhombs. Slightly dolomitic (5%). Very slightly anhydrite (2%). Scattered vugs.

SAMPLES NOT LAGGED

Sheet No. Twelve

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
350	355	D				Limestone (100%) light brown/buff, partly light grey - brown, mottled. Slightly dolomitic (5%). Microcrystalline to occasionally very fine crystalline. Generally dense with scattered micro-vugs.
355	360	D				Limestone (70%) light brown/brown, rarely buff; microcrystalline rarely becomming very finely xln, sucrosic. Slightly dolomitic (5%). Scattered microvugs. Limestone (30%) grey occasional mottled brown, microcrystalline to rarely very fine crystalline,. Argillaceous (10%). Scattered micro-vugs.
360	365	D				Limestone (80%) light brown, rarely buff, microcrystalline rarely very fine xln, sucrosic with scattered micro-vugs. Slightly dolomitic (5%). Limestone (20%) grey occasionally slightly mottled brown, microcrystalline/rarely very fine crystalline. Argillaceous (5%). Scattered micro-vugs.
365	370	D				Limestone (80%) light brown/buff cryptocrystalline rarely microcrystalline/very fine crystalline. Questionable salt casts. Scattered micro-vugs. Pyritic patchily concentrated. Lst. (20%) light grey, microcrystalline/microgranular slightly argillaceous (5-10%).
370	375	D				Limestone (80%) light brown/buff, cryptocrystalline rarely microcrystalline, scattered micro-vugs, dense. Slightly pyritic, slightly anhydrous. Limestone (10%) brown, microcrystalline/rarely very fine crystalline, dense. Limestone (10%) light grey, microcrystalline, very slightly argillaceous (5%) dense.
375	380	D				Limestone (50%) light brown/buff, cryptocrystalline/rarely microcrystalline, slightly pyritic, Slightly anhydrous. Scattered micro-vugs. Limestone (20%) brown, microcrystalline to very fine/fine crystalline, scattered vugs. Limestone (20%) medium grey/olive grey, cryptocrystalline/microcrystalline, dense. Calcarenitic (10%), light grey, fine with very light grey, very calcareous clay matrix, dense. Trace of granule conglomerate, clear quartz and mafic granules in pink, calcareous clay matrix.
380	385	D				Limestone (40%) light brown/buff, cryptocrystalline/microcrystalline, slightly pyritic, slightly anhydrous. Scattered micro-vugs. Limestone (20%) light brown/buff, very fine/fine crystalline, partially sucrosic/partially calcarenitic, partially/fair vuggy porosity occasionally brown poor intercrystalline, with coarse clear calcite crystals. Limestone (10%) olive grey, cryptocrystalline dense.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Thirteen
						Limestone (30%) grey/occasionally dark grey microcrystalline grading and interbedded with very fine/fine crystalline partially sucrosic/to calcarenitic with light grey clay matrix. Scattered vuggy and intercrystalline porosity. Trace granule conglomerate in pink calcareous clay matrix, clear quartz/mafic granules, coarse rounded pebble hematite magnetite.
385	390	D				Limestone (70%) light brown/buff/olive grey cryptocrystalline/rarely microcrystalline; slightly anhydrous. Trace of light brown very fine/fine crystalline sucrosic limestone. Limestone (30%) grey/occasionally dark grey/grey brown microcrystalline, slightly argillaceous locally grading very fine crystalline/finely calcarenitic. Trace pink conglomerate as above.
390	395	D				Limestone (70%) light grey,, very fine/finely calcarenitic, well cemented with very light grey calcareous clay matrix, (10%), dense with scattered pin-point porosity, locally grading microcrystalline/microgranular: Limestone light brown/buff, cryptocrystalline dense with traces very fine/fine crystalline, sucrosic.
395	398	D				No sample.
						Core #8 398-403 4' recovered.
			0.2'			Conglomerate - rounded to angular pebbles (upto 1 cm) of limestone; metamorphosed sedimentary/igneous rocks, evenl distributed in a pink calcareous clay matrix (50%) with evenly distributed angular granules with same composition as pebbles.
			0.9'			Marl/clay limestone, light grey, calcareous (upto 50%) fairly well compacted, with minute pin-point vugs or solution cavities parallel to thin bedding planes (slightly inclined) ?Algal. Stylolitic.
			1.2'			Limestone buff /very light tan, cryptocrystalline, micrite, variable clay content (2-5%). Thin, flat bedded with rare slightly bituminous streaks. Minute vugs or solution cavities, parallel to bedding ? Algal - rare small brachiopods.
			1.7'			Limestone buff/very light grey, variable clay content.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fourteen
		C				Poor but thinly bedded and flat. Stylolites. Rare bituminous streaks.
						Coring Times 3,7,5,5,5
						Core #9 403-417 Recovered 12.7'
			8.0'			Limestone, light grey/buff, cryptocrystalline, earthy/poor chalky texture, nodular/lumpy structure, partly due to variation in degree of compaction. Traces of ? graphite. Thin but poorly bedded, flat.
			2.8'			Limestone light grey/buff, cryptocrystalline, earthy, nodular/lumpy, slightly harder and more compacted than above, Rare Stylolite. Traces ?Algal. Rare phosphate bloom.
			1.9'			Limestone light grey/buff, cryptocrystalline, earthy, nodular/lumpy. Fairly poorly compacted.
						Coring Times 10,10,5,5,7,6,7,7,9,6,9,6,8,10
417	420	D				Limestone, light grey/buff, cryptocrystalline, earthy, partly chalky. (Considerable cavings from zones above).
420	425	D				Silt, light grey, slightly greenish, very calcareous (30-40%), rare fine, angular quartz grains. Pyrite variably disseminated. Argillaceous (10-20%).
425	430	D				Silt light grey, slightly greenish, calcareous/very calcareous (30-40%) variably argillaceous. (10-20%) locally becoming silty shale. Scattered fine, angular quartz grains, locally becoming very fine grain quartz sand. Pyrite variably disseminated throughout. (considerable ? cavings from above).
430	435	D				Silt as above with rare scattered yellow specks; silt, red-brown patches grey-green calcareous (30-40%). Argillaceous 20-30%. (Considerable ? cavings from above).
435	440	D				Silts (50%) red-brown, patchely light grey-green. Calcareous (20-30%) with scattered angular fine sand grains. Shal light grey-greeen silty locally grading silts, very calcareous 20-30%. Pyritic.
440	445	D				Silts (60%) red-brown as above. Shale as above, locally

SAMPLES NOT LAGGED

Sheet No. Fifteen

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						grading to silt and very fine grained sand - with poor porosity.
445	450	D				Silts (70%) red-brown as above. Silt light grey-greenish, calcareous (30%) argillaceous (20-30%), floating angular, , fine quartz grains - locally grading grey/light grey-very fine grains sand, argillaceous, pyritic, poor porosity
450	455	D				Silts (80%) red-brown as above. Silts (20%) light grey-greenish as above.
455	460	D				Silts (80%) red-brown as above. Silts (20%) light grey-greenish as above.
460	465	D				Silts as above.
465	470	D				Silts as above.
470	475	D				Silts (70%) red-brown as above. Silts (30%) light grey/light grey-greenish, as above locally grading very fine/fine grained sand, with scattered poor porosity.
475	480	D				Silts (60%) red-brown as above. Silts (30%) light grey/light grey-slightly greenish. Limestone (10%), very light brown/grey, cryptocrystalline, hard, clean dense. Some fracturing, partially infilled with coarse, clear calcite crystals.
480	485	D				Silts (65%) red-brown as above. Silts (30%) light grey/light grey-slightly greenish as above. Trace limestone (5%) light brown/grey, cryptocrystalline, hard, dense, clean.
485	490	D				Silts (70%) red-brown as above. Silts/silty shale (30%) as above.
490	495	D				Silts (70%) red-brown as above. Silts/silty shale (30%) with trace grey silty shale. Locally grading very fine grained sand.
495	500	D				Silts (70%) red-brown as above. Silts/silty shale (L30%) as above. Trace limestone (2%) grey, cryptocrystalline, dense.
500	505	D				Silts (70%) red-brown as above. Silts/silty shale (30%) locally grading grey very fine grained calcareous sandstone
505	510	D				Silts (70%) red-brown as above. Silts/silty shale (30%)

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixteen
						light grey/light grey-green as above.
510	515	D				Silts (70%) red-brown as above. Silts/silty shale (L30%) as above locally grading very fine grained sst. Limeston (5%) buff/very light brown, cryptocrystalline, dense clean.
515	540	D				No samples.
						Core #10 540-558 18' cut 10' recovered
			2.6'			Silts/silty shale, (70%) light grey/light grey slightly greenish with dark grey streaks calcareous/very calcareous, with patches/blebs/blotches of silt, red/red brown, argillaceous (20%), calcareous (20%). Nodular/lumpy, fairly soft poorly compacted, poor indeterminate bedding, partly fractured/brecciated.
			5.0'			Silt/silty shale, red/red-brown (85%), calcareous/very calcareous (20-30%). Patches and blebs light grey-greenish calcareous silty shale as above. Nodular lumpy, poorly compacted, indeterminate bedding.
			1.2'			Shale/silty shale, variably red/red-brown/very light grey-greenish as above. Fairly well compacted. Slightly brecciated.
			1.2'			Shale/shaley silts, variably light grey-gren/red-brown, as above. Partly brecciated, small randomly oriented fractures infilled with clear to rose coloured gypsum. Patches and isolated whirls gypsum in shale and silty shales.
						Coring Times 5,7,10,6,7, - 7,5,4,3,3, - 5,6,6,5,5, - 8 -10 14.
558	565	D				Silts (70%) red/red-brown, calcareous/very calcareous (20-30%), argillaceous (20-30%). Silts/silty shales (20%) very light grey-greenish, calcareous (20%), slightly pyritic.
565	570	D				Silts (70%) red-red-brown as above with silts/silty shales (L30%) very light grey slightly greenish as above. Trace limestone (5%), grey/very light brown cryptocrystalline, dense clean.
570	575	D				Silts, (95%) variegated, as above. Trace white gypsum. Limestone, grey/very light brown, cryptocrystalline, dense, clean.
575	580	D				Silts (95%) variegated, as above, locally grading very fine

SAMPLES NOT LAGGED

Sheet No. Seventeen

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						grained calcareous sand. Trace white gypsum.. Limestone (5%) grey/medium-grey cryptocrystalline, with floating fine quartz grains, to very light brown, cryptocrystalline clean dense.
580	585	D				Silts/silty shales, (95%) variegated, as above. Trace white gypsum (L2%). Trace limestone (5%) very light brown-grey, cryptocrystalline, clean dense.
585	590	D				Silts/silty shale (90%) variegated as above. Thin limestone (10%), light brown, cryptocrystalline. Coarse calcite crystals. Partly fractured.
590	595	D				Silts/silty shales (85%) variegated, as above Lst. (15%) grey/dark grey/very light brown, cryptocrystalline. Partly fractured.
595	600	D				No samples.
						Core #11 600-624 24' cut 17.5' recovered
			12.0'			Silts/silty shales, red-brown/dark red with patches and blebs of light grey-green silty shales/silts. Calcareous (20%). Finely laminated to partly cross bedded, occasionally slumped/distorted bedding and partly brecciated.
			1.6'			Silts to locally very fine grained, sand, brown-red, very slightly calcareous (L5%) fairly well sorted. Poorly bedded with patches and laminations of light grey-green silty, calcareous shales.
			0.2'			Shale, red-brown/dark red, silty, patchely light grey-green, calcareous (20%) finely laminated/cross bedded.
			0.6'			Silts, locally very fine grained, brown-red, slightly calcareous (5%), fairly well sorted. Poorly bedded.
			1.3'			Shale - light grey-green, silty, calcareous (20-30%) with red-brown shaley silts as above. Finely laminated.
			1.8'			Shale, red brown/dark red patchely light grey-green, silty calcareous (20%). Finely laminated/cross bedded, partly slumped and distorted. Rare small closed fractures at base.
						Coring Times 5,3,3,5,3,-6,4,3,3,2,-2,2,3,2,1,-1,1,1,2,2,-

SAMPLES NOT LAGGED

Sheet No. Eighteen

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						2,5,5,5,
624	625	D				Sandstone red, very fine grained with occasionally rounded coarse quartz grain, with white/occasionally pink, gypsum cement (40%) locally decreasing to nil and becoming quartzoze sand. Angular/sub-angular, very soft and friable. Trace white platey gypsum (5%)
625	630	D				Sandstone red/partly rose/partly clear quartzose, very fine grained, with white/occasionally pink gypsum cement (upto 30%). Angular/sub-angular, well sorted, soft, friable; non-porous. Interbedded with silts red/red-brown, slightly calcareous (10%), argillaceous (20%), varying to light grey-greenish. Silts/silty shales; Calcareous; disseminated pyrite. Traces of white, platey gypsum.
630	635	D				Sandstone red, very fine grained as above with occasionally rounded coarse sand grains. Interbedded.silts, red-brown/light grey-green as above. Platey white gypsum (5%).
635	640	D				Silts red/red-brown, patchily grey-green; calcareous (10%). Traces very fine grained sst, as above. White gypsum as above.
640	645	D				Sand red, very fine grained, white gypsum cement, as above. Interbedded with silts, red-brown/patchily light grey-green as above. White platey gypsum (5%).
645	650	D				Silts red/red-brown calcareous (10%), argillaceous (10-20%) with light grey-green silty shales as above. Thin sand, very fine/fine grained, gypsiferous, as above.
650	655	D				Silts as above. Thin, very fine grained, red, gypsiferous sst, as above.
655	660	D				Sand red/rose, very fine grained partially fine grained, gypsiferous, soft, friable. Silts red/red - brown, as above with patches and interbeds light grey-green silts/silty shales, as above. Traces maroon shale. Platey white gypsum (5%).
660	665	D				Sand interbedded silts as above. Platey white gypsum (5%)
665	670	D				Interbedded silts and sands as above: Sands becoming less gypsiferous. Platey white gypsum (5%).
670	675	D				Silts brown-red/red-brown partially light grey-greenish,

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Nineteen
						less calcareous (5%) interbedded with red gypsiferous sand as above, very finely grained locally fine grain. Increasing gypsum, white/clear, platey (10-15%).
675	680	D				Silts red-brown/red, patchely grey green, as above, interbedded with thin gypsiferous sand, very finely grained, as above. Increasing gypsum (25%) dominantly white with some clear gypsum; platey.
680	685	D				Gypsum, white platey with patches red silts between plats and crystal edges; locally becoming clear. Interbedded with red-brown silts as above.
685	690	D				Poor samples, probably as above.
690	695	D				Silts red-brown/red as above with thin interbedded grey-green silts/silty shales as above. Gypsum (25%), white/clear, platey.
695	700	D				Silts red/red-brown as above with interbedded grey-green silty shales as above. Gypsum, (15%) white/clear, platey.
700	705	D				Silts red/red-brown as above with minor interbeds grey-green silty shales/silts. Gypsum (15%) clear/white.
705	716	D				No samples.
						Core #12 716-737' 21' cut 19.1' recovered
			7.1'			Silts, red/dark red, with occasional grey-green, silty shale patches, inclusions and laminations; argillaceous (20-30%); very slightly calcareous (5%); generally finally laminated, partly brecciated/fractures with small vertical displacement, infilled white/rose/clear gypsum. Gypsum also occuring as thin laminae and patches in silt.
			4.1'			Shale/silty shale, grey/green-grey; slightly calcareous (5%) finely laminated, partly cross-bedded and slumped; locally fractures with infilling of white/clear gypsum. Occasional thin gypsum laminae.
			1.6'			Silty shale/silt, red with green-grey silty shale patches and laminae; slightly calcareous/slightly dolomitic (5%); finely laminated with rare gypsum inclusion.

SAMPLES NOT LAGGED

Sands be...

Sheet No. Twenty

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
			0.7'			Shale/silty shale - grey-green with red laminae, rare gypsum laminae; slightly calcareous/slightly dolomitic (5%)
			5.6'			Silty shale/silt - red/red-brown/dark red/maroon; generally well bedded with occasional patches and laminae grey-green silty shale and scattered patches and thin beds (1/8"/¼") gypsum, becoming slightly sandy and irregularly bedded in bottom o.6'. Slight fracturing and brecciation with gypsum infill.
						Coring Times 11,11,11,10-8,5,5,7,5,~~-5,5,5,5,5,-5,6,4,5,5,-5,6~~
737	740	D				Silty/shale/silts, red/red-brown, locally very fine sand, slightly calcareous (L5%) to slightly dolomitic. Minor grey-green silty shales, slightly calcareous/dolomitic (L5%) Traces platey clear/white gypsum.
740	745	D				As above. Poor samples.
745	750	D				As above.
750	755	D				As above.
755	760	D				As above.
760	765	D				As above.
765	770	D				As above.
770	775	D				As above.
775	780	D				As above.
780	785	D				As above.
785	790	D				As above.
790	795	D				As above.
795	800	D				As above.
800	805	D				As above.
805	810	D				As above.
810	815	D				No samples.

SAMPLES NOT LAGGED

Sheet No. Twenty-Two

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
905	910	D				No sample.
910	915	D				Silts/silty shale, red/red-brown, calcareous (10%). Minor grey-green silty shales as above. Trace clear/white gypsum.
915	921	D				As above. Poor sample.
						Core #14 921-940' Cut 19'; Recovered 19'
			8.0'			Shale - green-grey/grey-green/grey with occasional thin red laminae; slightly silty; dolomitic/calcareous (10%); finely bedded to locally slumped and brecciated, occasional small fractures. Thin (upto 1") oblique/horizontal beds of sparry fibrous gypsum.
			7.1'			Shale red/red-brown/maroon; with patches and occasional interbeds green-grey shale as above. Bedding generally fine to partially slumped. Small fractures infilled fibrous gypsum.
			0.7'			Gypsum/selenite, rose-red; sharp irregular contact.
			0.8'			Shale red/red-brown, as above.
			0.7'			Gypsum/selenite, rose-red.
			0.2'			Shale, red/red-brown, as above.
			0.4'			Gypsum, brecciated - with red shale fragments.
			0.3'			Shale, red, as above.
			0.8'			Gypsum, rose-red, fibrous; partially brecciated with red shale fragments.
						Coring Times 12, 10,10,10,10,-5,7,7,8,6,-6,8,6,5,5,-5,5,5,7
940	945	D				Shale, grey-green; locally slightly silty, calcareous (10%) Minor red/red-brown shales/silty shales. Trace gypsum.
945	950	D				Shale as above. Poor samples.
950	955	D				Dolomite (80%) - buff/very light grey, cryptocrystalline calcareous (10%), argillaceous, (20-30%), locally slightly

SAMPLES NOT LAGGED

Sheet No. Twenty-Three

From	To	Core C. Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						silty. Minor limestone (15%), buff/very light brown, cryptocrystalline, clean dense. Traces white gypsum (5%). Rare very coarse calcite crystal.
955	960	D				Dolomite (75%) buff/light grey rarely greenish grey, calcareous (10%). Argillaceous (20-30%), locally slightly silty. Limestone (20%), light brown rarely buff, cryptocrystalline, clean dense. Trace white gypsum (5%).
960	965	D				Dolomite (75%) light grey occasionally buff, rarely grey-green, calcareous (10%), argillaceous (20-30%), fine white, fibrous gypsum stringers (5%). Limestone (20%) light brown rarely buff, cryptocrystalline, clean dense.
965	970	D				Dolomite (70%) as above. Limestone (25%), light brown rarely buff, occasionally thin medium grey interbeds, cryptocrystalline, clean dense. Trace white/pink gypsum (5%).
970	975	D				Limestone (50%) light brown/medium grey cryptocrystalline, clean dense. Dolomite (40%) light grey/buff, rarely grey-green; calcareous (10%), argillaceous. Gypsum/clay, (10%) very light grey/white, waxy, very soft, with platey white gypsum as above.
975	980	D				Dolomite (70%) buff/light grey, slightly calcareous (5%), argillaceous (30%). Limestone (20%), light brown/medium grey cryptocrystalline as above. Gypsum/clay (5%), very light grey as above, platey white gypsum (5%).
980	985	D				Dolomite (75%), limestone (15%), gypsum/gypsum clay (10%) as above.
985	990	D				Dolomite (60%) buff/light grey, less argillaceous (10%), cryptocrystalline occasionally microcrystalline, rarely very fine xln. Limestone (30%) very light brown, slightly yellowish cryptocrystalline/microcrystalline locally very fine xln, imprignated and interstices infilled with white gypsum; clean, dense. Gypsum-clay (5%), white gypsum (5%) as above.
990	1000	D				Dolomite (50%) buff/very light grey, slightly argillaceous (5-10%), minor grey-green argillaceous (30%), cpxln. Limestone (40%), light brown/buff, slightly yellowish, rarely medium/dark grey, cryptocrystalline occasionally microx/ rarely very fine crystalline, clean dense. Gypsum (10%) clean/white, platey/fibrous.
1000	1005	D				Limestone (50%), light brown/buff, slightly yellowish, minc

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Twenty-Four
						medium/dark grey, cpxln/microx, clean dense. Dolomite as above (30%). Gypsum-clay, white/clear, platey/fibrous gypsum (20%).
1005	1010	D				Dolomite (60%) buff/very light grey, slightly argillaceous (5-10%), minor grey-green argillaceous (30%), cpxln, rarely microx. Limestone (30%) light brn/buff, rarely m/dk grey, cpxln occasionally microx., clean dense. Gypsum (10%), white/clear, platey/fibrous.
1010	1015	D				Dolomite (70%), as above. Limestone (20%) light brown/buff cryptocrystalline, rarely microx., clean, dense. Gypsum (10%) as above.
1015	1020	D				Dolomite (40%), as above, partially gypsiferous. Limestone (20%), as above. Gypsum (20%), white platey locally fibrou - traces gypsum clay. Anhydrite (20%) very light grey/buff cpxln.
1020	1025	D				Dolomite (55%), as above. Limestone (25%) as above. Gypsum (20%) clear/white platey/partially fibrous, traces anhydrite as above.
1025	1032	D				Dolomite (70%) as above. Limestone as above (20%). Gypsum /anhydrite (10%) as above.
						Core # 15 1032-1052' Cut 20', Recovered 19.6'
		C	0.3'			Dolomite, light grey, slightly greenish, cryptocrystalline, argillaceous (10%).
		C	1.5'			Dolomite grey-brown/dark grey-brown, cpxln, slightly argillaceous (5%), brecciated, infilled and recemented with anhydrite/gypsum brown-grey finely sln.
		C	3.0'			Limestone, grey/grey-brown, microx/microgranular, dolomitic (10%); slightly argillaceous (5%); anhydritic (10%) with sparry gypsum inclusions; very finely laminated, 25° angle (? cross bedding), scattered dark brown bituminous laminae
		C	2.4'			Anhydrite/gypsum brown/very dark grey-brown, finely/coarsly crystalline, brecciated with dolomite light grey-brown/tan, cryptocrystalline.
		C	5.2'			Dolomite, light grey-brown/tan, slightly yellowish, slightl argillaceous (10%), anhydritic (10%) occasionally interbed-

SAMPLES NOT LAGGED

Sheet No. Twenty-Five

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						ded with doloarenite, fine grained, dark grey borwn; anhydritic (10%). Finely laminated with occasional very dark grey-brown bituminous laminae; locally brecciated with infilling grey anhydrite and white gypsum.
		C		7.2'		Dolomite/dolomitic shale, cpxln, variegated colours, grey/grey-brown tan/grey-green/dark grey green, variably argillaceous (10-30%), anhydritic (10%) with interlaminations (upto $\frac{1}{4}$") of white gypsum. Thin bedded/finely laminated; locally brecciated with infilling of white gypsum. Basal 1.6' strongly fractured.
						Coring Times 10,12,8,7,4,-6,8,8,6,5,-5,4,5,9,7,-7,6,7,7,6.
						Core #16 1052-1073' Cut 21' Recovered 20.6'
		C		4.3'		Dolomite - light greenish-grey, slightly argillaceous (10%) yellowish brown, cpxln, finely laminated with minor gypsum inclusions.
		C		0.9'		Dolomite - light grey, cpxln slightly argillaceous (10%), numerous sparry gypsum inclusions. Contorted bedded with rare black shale laminae.
		C		1.1'		Dolomite - light brown cpxln. Faint, fine laminations.
		C		0.5'		Dolomite - light grey-green, cpxln, argillaceous (20%), Contorted/brecciated bedding with rare black shale laminae. Sparry gypsum inclusions.
		C		0.3'		Limestone, brown, cpxln, dense. Dark brown blades of anhydrite.
		C		9.5'		Dolomite - alternating light grey-green, slightly argillaceous (10%), to yellowish-brown, cpxln, dense. Finely laminated with occasional "paper thin" black shale laminae. Scattered gypsum inclusions.
		C		4.0'		Dolomite - light grey-green, slightly argillaceous (10%) cryptocrystalline. Scattered pin point/small buggy porosit (?gastropods). Rare laminae green black chloritic laminae. Rare tight vertical fractures.
						Coring Times 7,7,8,6,7,-7,6,8,7,7,-7,7,7,7,7,-8,8,6,5,7,-5.

SAMPLES NOT LAGGED

GEOLOGICAL SAMPLE DESCRIPTION Sheet No. Twenty-One

From	To	Core C. Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
815	820	D				As above.
820	825	D				As above.
825	831	D				No sample.
						Core #13, 831-851' 20' cut; 20' recovered
			14.2'			Shales locally becoming silty; red/red-brown/maroon, patchily grey-green, dolomitic (5-10%); variable bedding - generally finely laminated; locally cross-bedded to slumped and brecciated. Scattered patches gypsum.
			0.6'			Shales; red/maroon, slightly dolomitic, slumped and rolled bedding into round concentric masses.
			5.2'			Shale; red/red-brown, patchily silty with thin interbeds (3") silty shales, dolomitic (10%); generally irregularly bedded, partly cross-bedded, partly slumped. Thin stringer (upto ½") clear/rose fibrous gypsum.
						Coring Times: 9,5,5,5,8-7,7,8,7,7,-6,6,5,7,7,-8,9,7,5,5,
851	860	D				No samples.
860	865	D				Silty shales/silts, red/red-brown as above. Minor grey-green silty shales as above. Trace gypsum. Poor sample.
865	870	D				As above. Poor sample. (Primarily cavings).
870	875	D				Silts/silty shales red/red-brown, as above. Minor grey-green silty shales, as above. Trace gypsum.
875	880	D				As above. Poor sample.
880	885	D				As above.
885	890	D				As above.
890	895	D				As above.
895	900	D				As above.
900	905	D				As above. Thin lst. (10%) light brown/grey, cryptocrystalline, clean dense.

SAMPLES NOT LAGGED

805	810	D				As above.
810	815	D				As above.

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Twenty-Six
1073	1075	D				Dolomite as above. Poor sample.
1075	1081	D				No sample.
						Core #17 1081-1083' Recovered 2'
		C	0.9'			Limestone, buff/light brown, fine/medium calcarenite, partially oolitic. Fair/locally good intercrystalline, pin point/small vuggy porosity. Partly well cemented, clear calcite. Patches and partial infilling with micro-granular/very finely granular, grey-green, slightly argil-laceous limestone. Patches and infilling buff/light tan, very calcareous clay. Scattered clusters pyrite.
		C		0.4'		Limestone - buff, calcilutite, partly finely/very finely calcarenitic, well cemented, generally dense with scattered ineffective pin-point porosity.
			0.7'			Limestone, very light brown/buff, reefoidal, with patches of med/fine calcarenite. Indeterminate organic remains re-crystallised, f/med xln with fair/good intercrystalline porosity. Fair/good intercrystalline/pin-point/vuggy poro-sity.
						Coring Times 8--7
						Core #18, 1083-1097' Recovered 14' (Cut 14')
				5.0'		Limestone light grey/buff, rarely slightly yellowish; cpxln /microx; locally finely calcarenitic/partly oolitic; very slightly argillaceous (L5%); poor to indistinct bedding/ Patches green-grey microgranular lst. Localised clusters pyrite. Scattered pooly preserved corals (algal) with poor /fair pin-point and intergranular porosity (4%), rarely poor intercrystalline in calcarenite.
			3.4'			Lst, light grey/light brown, occasionally buff slightly yellowish, cryptocrystalline; locally f/m calcarenite, bioclastic with partial oolitic texture. Rare light grey-greeen calcareous shale laminae and pods. Reefoidal text-ure. Corals (Favosites), in place/broken; algae; scattered

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Twenty-Seven
						brachiopods and gastropods. Fair/good vuggy porosity (drusy linings) with scattered intercrystalline porosity.
		C		0.6'		Lst, light grey/buff; cpxln/microx; slightly argillaceous (5-20%). Thin bedded to finely laminated with grey-greeen calcareous shale laminae and rare black bituminous laminae. Dense with occasional compaction fractures.
		C	5.0'			Lst light grey/light grey-brown/rarely buff, cpxln, to locally f/m calcarenite, partly oolitic. Poor refoidal textur Scattered coral/algal detris with solution cavities of brachiopods/gastropods. Scattered pods grey-green calcareous shale. Fair/poor vuggy (drusy linings) porosity (6-4
						Coring Times 10,7,6,7,6-7,5,3,5,6-6,5,5,7
						Core #19 1097-1114 Recovered 14,7' (Cut 17')
		C	0.7'			Lst light grey/light grey-brown/rarely buff, cpxln to locally f/m calcarenite, partly oolite. Poor reefoidal texture with fair/poor vuggy porosity.
				0.7'		Lst, cream/white; cpxln, slightly silty/argillaceous (20%) scattered fossils (?ostracods/algal), brecciated with fine calcarenite/bioclastic, grey/grey-brown with scattered vugs (ineffective porosity).
				1.2'		Lst, fine/med., bioclastic calcarenite; grey-brown/grey, locally brachiopods coquina with rare crinoid fragments. Patches grey, argillaceous lst. Dense with very rare solution vugs.
				2.6'		Lst, brown, fine calcarenite, partially oolitic in microx matrix (40%). Scattered small pods, grey-green calcareous shale. Massive. Dense.
				5.9'		Lst light brown, cpxln/microx generally dense with locally fair (?algal) porosity - ineffective; slightly argillaceous (10%). Interbeds, fine calcarenite partially oolitic; grey/brown/dark grey. Small pods/rare laminae grey green calcareous shale. Faint, vertical fractures at base, with black-green chloritic lining.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Twenty-Eight
		C	3.6'			Lst, light brown-grey/buff, cpxln to locally f/med. calcarenitic, partially oolitic. Reefal texture. Scattered brachiopods/corals, partially broken with rare stromatoporoids. Poor/locally fair vuggy (drusy linings) and pin-point porosity (6%). Coring Times 14,12,8,8,7,-5,6,10,8,6-7,9,10,8,8,-9,4
						Core #20 1114-1122' Recovered 7.6' (Cut 8')
		C	7.6'			Lst. light brown/buff, fairly oolitic (decreasing upwards; interbedded dark brown/grey, fine calcarenite. Partially algal. Poor/locally fair porosity; pin-point/intergranular rarely small vugs. Oblique fracture with gree-grey shale lining and stain. Basal section badly fractured and broker Coring Times 10,10,7,8,8,-12,8,9,
						Core #21 1122-1132' Recovered 10' (Cut 10')
		C		4.6'		Lst light brown/buff, fine/medium oolite/calcarenite (oolites partially broken), well cemented dark brown calcite matrix (10%). Rare scattered solution (Brachiopods/gastropods)vugs. (L3% porosity).
		C	5.4'			Lst light brown/brown/light brown-grey; mottled cpxln/microcrystalline; locally finely calcarenitic; becoming slightly oolitic in ypper 0.8'. Locally slightly argillaceous/argillaceous (5-20%). Scattered corals (Favosite), algal; stromatoporoids, brachiopods. Fair/locally good intergranular/vuggy porosity (10%). Coring Times 4,4,7,5,6-3,3,5,7,6
						Core #22 1132-1153' Recovered 20' (Cut 21')
		C	7.8'			Lst light brown/brown grey; fine/medium calcarenite, partially bioclastic, with local pockets oolite (10%). Local pods and partial infilling cream/white maristone. Reefoi-

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Twenty-Nine
						dal texture. Corals (Favosites, Halysites). Algal, stroms, brachiopods. Fair/good vuggy porosity, to fair intergranular porosity (8%).
		C		9.2'		Lst, light grey/light grey-brown/buff, f/m calcarenite/ partially oolitic, slightly bioclastic; locally grading cryptocrystalline with clastic fragments/oolites. Rare stroms/brachiopods and broken corals. Generally dense with patches fair/poor intergranular/pin-point porosity (5%). Partially fractured, infilled with compacted cream calcareous clay.
		C		3.0'		Lst, light grey, fine/very fine calcarenite with cream calcareous clay matrix (10%). Partially fractured, infilled with compacted, cream, calcareous clay, dense.
						Coring Times 3,3,5,3,4-4,4,4,3,4,-4,4,5,3,3,-5,4,4,3,2,-3.
						Core #23 1153-1174' Recovered 20.6' (Cut 21')
		C		1.6'		Lst, light grey, fine/very fine calcarenite with cream calcareous clay matrix (5%). Poor pin-point porosity (L3%).
		C	9.6'			Lst, light brown rarely brown/dark brown-grey (partly mottled) becoming grey towards base; very fine calcarenite locally m/coarse bioclastic; locally light grey-green cpxln, argillaceous. Partly reefal texture. Corals, algae, strom brachiopods, gastropods. Fair/locally good vuggy and inter crystalline porosity (8-10%). Partial calcareous clay infilling of vugs.
		C	8.4'			Lst, grey/light grey; very fine calcarenite, slightly bioclastic, slightly argillaceous/argillaceous. (5-20%), with thin interbeds cream/buff lst; very fine/fine calcarenite, dense. Fair/poor vuggy and intercrystalline porosity in grey lst. (6%).
						Coring Times 5,5,5,5,5,-5,5,6,7,6,-6,6,6,45-4,5,5,5,5,-3.
1174	1178	D				No samples.
						Core #24 1178-1183 Recovered 4.6' (Cut 5')

SAMPLES NOT LAGGED

Sheet No. Thirty

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C	4.6'			Lst, grey-brown/ light brown/buff, cpxln, bioclastic, fossiliferous. Reefal texture. Fair vuggy porosity (8-10%). Coring Times 7,5,6,5,7,
						Core #25 1183-1203' Recovered 20' (Cut 20')
		C	2.8'			Lst, grey/light grey/grey-brown, cpxln locally fine xln. Slightly dolomitic (5-10%). Reefal textures. Corals (Favosites) algae. Fair/good vuggy/intercrystalline organic porosity (10%).
		C	1.6'			Lst cream/buff, cpxln, finely bioclastic, slightly silty/ argillaceous (5-20%), partly/fair pin-point/intercrystalline porosity (6%).
		C	15.6'			Lst light brown.light brown-grey/grey/medium grey; cpxln/ finely calcarenitic, coarsly bioclastic, locally recrystallised to coarse xln. Slightly dolomitic (10%). Reefal texture. Corals/stroms/algae/brachiopods/gastropods. Good/ fair vuggy/intercrystalline organic porosity (12%). Traces of pyrobitumen in vugs. Partial cream calcareous clay vug infilling. Coring Times 2,2,2,2,2,-2,2,2,2,2,2,-2,2,2,2,2,2,-2,3,3,3,3,3,
						Core #26 1203-1225 Recovered 22' (Cut 22')
		C	8.8'			Lst, light brown, slightly yellowish; cpxln, reefal, to f/m calcarenite, Corals, brachiopods, crinoids; good intxln/ organic vuggy porosity (12%).
		C	6.4'			Lst, light brown/buff/cream, m/crs calcarenite/bioclastic. Numerous corals (Favosite), algae, brachiopods. Good inxln/ organic vuggy porosity (15%) decreasing to fair bottom 3'. Bottom 3' fractured with cream calcareous clay infilling.
		C	5.4'			Lst, variegated grey/light brown/buff cream, med/crs. bioclastic calcarenite, with partial cream cpxln, calcite matrix, partially recrystallised with good intergranular porosity. Locally cpxln, reefoidal texture. Varying to cream/buff lst, argillaceous (15%), partly finely bioclasti

SAMPLES NOT LAGGED

GEOLOGICAL SAMPLE DESCRIPTION Sheet No. Thirty-One

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
		C	1.4'			Fair/good intergranular/vuggy porosity (10%). Partially brecciated. Lst grey-brown, cpxln, reefal texture. Corals (Favosites) Fair vuggy porosity (8%).
						Coring Times 2,2,2,2,2,-2,2,2,2,2,2-2,2,2,2,2,2-2,2,2,2,2-3,3
						Core #27 1225-1246' Recovered 20' (Cut 21')
		C	2.5'			Lst grey/light grey/buff; cpxln, partially reefoidal, to fine bioclastic calcarenite in argillaceous (10%) lime mud matrix. Fragments of Corals stroms, crinoids. Fair pin-point/vuggy porosity (7%).
		C	2.0'			Lst buff/light grey, cpxln, reefoidal, to coarse bioclastic calcarenite. Crinoids, brachiopods. Good intergranular/vuggy porosity (12%).
		C	8.0'			Lst, - light grey/buff, cpxln, partly fine bioclastic, partially slightly argillaceous. Locally finely recrystallised in proximity to small fractures. Poor, scattered vuggy porosity.
		C	7.5'			Lst, light grey-brown/light grey/buff; cpxln, reefoidal to past fine/medium bioclastic calcarenite. Faint slightly argillaceous stratification towards base. Good pin-point/vuggy porosity (12%).
						Coring Times 3,3,3,3,2-2,3,2,3,3-3,3,3,2,2-2,2,2,2,2-2.
1246	1294	D				No samples. Drilled Interval.

SAMPLES NOT LAGGED

From	To	Core C / Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Thirty-Two
						Core #28 1294-1315' Recovered 20.5' (Cut 21')
		C	4.4'			Dolomite, light brown, slightly yellowish/buff, patchily grey/dark grey (argillaceous) microgranular rarely finely granular. Numerous small vugs of leached Ostracods and small gastropods, occasional ostracod preserved. Slightly calcareous 10%. Massive. Medium / coarse crinoid intraclasts, in basal 0.2'. Good intergranular/small vuggy porosity with blade like solution cavities (15%). Probably spores/spines/spicules. Slightly argillaceous (5-10%).
		C	0.6'			Limestone - light yellow brown/mottled light grey; predominantly medium bioclastic calcarenite with nodular fragments cpxln/micros light grey lst, with microgranular/partially earthy matrix. Variable fragments crinoids, brachiopods, ostracods. Irregular, nodular bedding. Poor/very poor intergranular porosity (3%). Argillaceous (10%).
		C	2.4'			Dolomite, light yellow brown/buff-brown; microgranular/partly earthy; variably calcareous (5-20%) depending on concentration of calcite crinoidal fragments. Massive. Scattered solution vugs ostracods/small gastropods, local concentration of crinoid debris. Fair locally good granular/vuggy porosity (possibly very slightly anhydritic L2%) Slightly argillaceous (5-10%).
		C	2.3'			Dolomite, light yellow brown/buff-brown with scattered small patches grey/medium grey, argillaceous dolomite. Microgranular/locally earthy, with numerous solution vugs ostracods/small gastropods, rare crinoid fragments. Rare bituminous whirls. Good intergranular.small vuggy porosity (15%)
		C	2.6'			Dolomite/dolomitic limestone, very light yellowish brown/buff-brown, microgranular/partly earthy. Medium/coarse bioclastic, primarily crinoid (10%) debris (calcite) with minor ostracod solutions vugs and shell debris. Poor locally fair intergranular/rarely vugs porosity. Very slightly anhydritic (L2%). Argillaceous (10%).
		C	1.6'			Dolomite, very light brown slightly yellowish/partly mottled light grey-buff/brown, with patches slightly argillaceous medium grey. Microgranular/partly cpxln/earthy, rarely finely granular. Numerous solution vugs ostracods, small gastropods, small brachiopods. Good/fair intergranular/solution vugs porosity (15%). Slightly argillaceous (5-10%). Rare disseminations pyrite/pyrrhotite.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Thirty-Three
		C		1.6'		Limestone very light yellowish brown; microgranular/partly earthy/ cryptocrystalline; very dolomitic (30-40%). Numerous crinoid (10%) calcite fragments (medium size). Argillaceous (10%). Dense/locally poor intergranular porosity.
		C	0.8'			Dolomite light yellowish brown; microgranular. Numerous solution vugs ostracods/small brachiopods, gastropods. Fair /poor intergranular/solution vug porosity. Argillaceous (5-10%).
		C		4.2'		Limestone, very light brown.partly light brown-buff, microgranular/locally very fine/medium calcarenite, bioclastic with medium/coarse organic debris (10-15%), primarily crinoids with minor brachiopods, gastropods. Fairly nodular bedding with occasional dark grey laminae. Generally dense with scattered poor pin point: Argillaceous (10%).
						Coring Times 3,3,3,3,3,-3,3,3,3,3,-3,4,3,3,3,-3,4,4,3,4,
						Core #29 1315-1335' Recovered 20' (Cut 20')
		C		20.0'		Limestone, light brown/light grey-brown, rarely slightly yellowish, very slightly mottled brown, cryptocrystalline/ microgranular partially earthy, heavily bioclastic, (10-20%) crinoid, shell fragments (dolomitic 20-30%). Locally grading very fine/medium calcarenite, poorly sorted, bioclastic, well cemented (5%) brown, clear calcite. Fai nt irregular/ partly nodular bedding, generally faint stratification by mattes. Rare traces pyrite. Argillaceous (10%). Generally dense with traces poor pin-point/earthy porosity.
						Coring Times 3,4,4,4,3,-4,4,4,4,4,-4,4,4,4,4,-4,4,4,4
						Core #30 1335-1354' Recovered 19' (Cut 19')
		C		19.0'		Limestone - light grey/buff/light grey-brown/rarely brown, partially mottled, cpxln/microx, patchily very finely calcarenitic. Very finely/finely bioclastic (finer and less t than core #29), crinoid and shell fragments. Decreasingly dolomitic, (20% upper 3' to less than 5% at base). Slightly silty/argillaceous (5-10%). Scattered pyrite clusters. Indistinct/partly irregularly bedded with scattered irregu-

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Thirty-Four
						lar algal mattes, giving indistinct, coarse stratification. Dense to scattered pin-point rarely slightly earthy porosity
						Coring Times 4,10,10,4,5-5,5,5,5,5,5,-5,5,5,5,5,5-5,5,5,5,5,
1354	1368	D				No samples. Interval drilled.
						Core #31 1368-1388' Recovered 19' (Cut 20')
		C	7.5'			Limestone, light grey/buff/light grey-brown, cpxln/microx, finely bioclastic with scattered vuggy porosity/drusy to medium coarse calcite xl linings. High rubbly/nodular (ruditic, calcilutite) in matrix (30%) medium to coarse bioclastic calcarenite, with microgranular to partly earthy matrix locally finely granular, medium/dark brown-grey with numerous algal mattes (upto 50% of matrix). Rarely pyritic/ pyrrhotite. Fair/locally good intergranular/vug porosity in matrix. Slightly bituminous/gassy odor on breaking. Generally non-argillaceous in calcilutite to slightly argillaceous in matrix (upto10%).
		C	9.5'			Limestone, light grey/grey buff/rarely grey-brown, microx/ microgranular, partly very finely calcarenitic, fine fossil fragmental locally becoming coarsely fragmental with brachiopods and crinoids. Rare and scattered algal mattes. Indistinct slightly irregular bedding. Generally dense. Slightly argillaceous/silty (10%).
		C		2.0'		Limestone - light grey/buff,/grey-brown, microx/microgranular partly very finely calcarenitic, finely fragmented with occasional brachiopods casts and broken coral. Slightly nodular/irregular bedding with brown, earthy/microgranular infilling with algal mattes. Poor intergranular porosity in earthy/algal laminae. Slightly argillaceous (10%).
						Coring Times 3,4,5,4,4-4,4,4,4,4,-4,4,4,4,4,4-3,3,3,3,3
1388	1422	D				Interval drilled. No samples.
						Core #32 1422-1436.5' Recovered 13.7' (Cut 14,5')

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FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Thirty-Five
		C		0.2'		Dolomite - light grey/buff, cpxln/lithographic - earthy; fairly soft: Argillaceous (20%). Rare grey-brown, anhydrite lense. Faint wavy bedding/finely stratified.
		C		1.0'		Anhydrite. grey brown/dark brown-grey, mottled, fine/coarsely xln, partially fibrous gypsiferous with thin lamellae/fragments of dolomite as above.
		C		0.6'		Anhydrtie dark olive grey, cpxln, dolomitic (10%) with some brown cpxln, anhydritic dolomite inclusions.
		C		3.4'		Dolomite brown/yellow-buff, cpxln-lithographic, slightly argillaceous (L10%), compacted. Finely laminated. Interbedded/partially replaced translucent anhydrite, fine/med. xln, grey-brown, with occasional oblique/horizontal interbd of fibrous, sparry gypsum.
		C		0.7'		Limestone, brown, microx. Slightly argillaceous (10%). Thinly bedded. Dense.
		C		0.3'		Limestone, brown - fine/very fine calcarenite, well cemented Grey anhydrite blebs throughout (30%) Dense.
		C		0.7'		Limestone brown/dark brown-grey, cpxln/microx. Slightly argillaceous (L10%). Thinly bedded. Dolomitic (20-30%). Dense.
		C		1.5'		Dolomite - grey-brown/light grey-buff, cpxln, lithographic, slightly argillaceous (10%). Thinly bedded with thin intbds medium grey-brown, very fine/fine doloarenite, (algal mattes ?) Anhydritic (10%) with rare thin white fibrous gypsum intbd. Thinly bedded to faintly finely stratified.
		C		0.5'		Intbd dolomite/lst anhydrite - brown/grey-brown/olive grey Dolomite cpxln/lithographic dense, lst microx, dense. Anhydrite grey/dark grey fxln, partly gypsiferous. Thinly bedded.
		C		1.6'		Dolomite brown/brown-grey/olive grey brown, cpxln/microx - lithographic. Thinly bedded/faintly finely laminated, Dense slightly argillaceous (10%). Rare thin intbds. - limestone, brn-grey, microx/rarely f/med calcarenite, dolomitic (20%) dense.
		C		0.8'		Limestone, brown-grey, cpxln/microx, slightly argillaceous (L10%). Dolomitic (20%). Dense. Interbedded and with bleb of grey anhydrite. Thinly bedded/faintly finely stratified.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Thirty-Six
		C		0.9'		Dolomite, grey-brown/light grey, cpxln, - lithographic Slightly argillaceous (10%), dense.
		C		0.7'		Limestone, brown-grey, microx/cpxln, trace bioclastic, slightly argillaceous (L10%). Dolomitic (20%). Faintly laminated dense.
		C		0.3'		Anhydrite - grey, fine crystalline partly gypsiferous, with fragments of lst as above.
		C		0.5'		Limestone, grey-brown, cpxln/microx, slightly argillaceous (L10%). Dolomitic (10%). Rare bleb grey anhydrite. Vertical fracture infilled sparry gypsum.
						Coring Times 4,5,10,10,10,-7,11,12,10,12-12,10,16,22
						Core #33 1436.5-1456' Recovered 20' (Cut 20.5')
		C		3.0'		Limestone, light grey, cpxln - lithographic (calcilutite) - scattered, rare organic fragments (?Ostracods). Variable concentrations anhydrite (grey) blebs thoughout (10%) with occasional thin intbed and fracture of gypsum. Dense.
		C		2.6'		Limestone brown-gry/light brown/brown, partly mottled, cpxln, lithographic (calcilutite), partly microgranular/microx, very slightly bioclastic at top becoming increasing fragmented/ increasingly granular towards base - ostracods brachiopods. Faint slightly irregular/thin bedded. Dense slightly argillaceous (10%). Scattered blades anhydrite (L2%).
		C		1.0'		Limestone, grey slightly brownish, cpxln - lithographic (calcilutite. Thinly bedded. Argillaceous (20%). Dense.
		C		1.0'		Limestone dark grey-brown, microx, argillaceous (20%) with numerous lenses/nodules (40% of rock) light grey, slightly brownish, lst, cpxln - lithographic (calcilutite). Nodular texture. Rare algal matte. Dense.
		C		5.2'		Limestone light grey-brown/light brown, slightly yellowish, partly mottled brown. Microgranular/finely calcarenite, finely calcarenite, fine/med bioclastic (10-20%) with crinoid /brachiopod fragments; nodules/fragments light grey calcilutite, rare algal matte. Very light grey chert nodules in upper 2', slightly siliceous in remained. (L5%). Slightly argillaceous (10%). Faint irregular/nodular bedding. Gener-

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Thirty-Seven
						ally dense with local poor intergranular porosity.
		C		7.2'		Limestone light grey brown/occasional slightly yellowish, microgranular/microx, partly very finely calcarenitic, finely scattered bioclastic, with brachiopods. Scattered algal mattes. Rare cream tripolitic chert inclusions with organic calcite fragments (2%). Faint bedding/slightly nodular. Generally dense with poor local microgranular/earthy porosity.
						Coring Times 8,18,13,18,18-8,29,37,10,8-11,12,10,6,5,-6,6, 6,7,6.
1456	1493	D				Drilled interval. No samples.
						Core #34 1493-1513' Recovered 20' (Cut 20')
1493-96.5		C		3.5'		Limestone light grey/light brown-grey slightly yellowish, cpxln/microx, (calcilutite) rare finely bioclastic, scattered algal mattes. Massive. Dense.
1496.5-1505.5		C	9.0'			Limestone. grey brown/light grey, microx rarely very fine xln, with rare blebs of grey; medium/coarse xln anhydrite - (0.3' anhydrite band 4' from top). Generally clean dense, rubbly/nodular with rare interbed, cpxln/microx - sub-lithographic, finely laminated with occasional algal mattes. slightly argillaceous (10%). Nodular/rubbly with variable matrix (10-40%). Light brown/buff, microgranular/finely calcarenitic/slightly oolitic, with partial earthy matrix - medium/coarse bioclastic (10%) crinoid/shell fragments. Poor/fair microgranular porosity (5-8%). Rare concentration of nodular chert (L2%), grey interior with cream/white, tripolitic chert exterior.
		C		3.5'		Limestone, light brown-grey/patchily grey, microx/partly microgranular/to very finely calcarenitic, scattered fine bioclastic (crinoids/brachiopods). Faintly thin bedded/ massive. Clean. Dense.
		C	4.0'			Limestone - brown-grey/medium grey-brown, microx/very fine xln, clean, generally dense with rare microvugs, rarely fine fossil fragments. Rubbly nodular with matrix (40%), light brown/brown/buff slightly yellowish microgranular/finely calcarentic/slightly oolite with ea rthy matrix. Coarsely bioclastic (10%),, brachiopods, rare crinoids/broken corals. Slightly argillaceous (L5%). Scattered concentrations gyp-

SAMPLES NOT LAGGED

From	To	Core C.D. Ditch	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						sum/anhydrite blades. Bedding irregular/nodular, with rare nodule grey coarsely xln anhydrite with algal matte on surface (?algal). Gassy odor on breaking, salty taste. Fair microgranular/earthy porosity in matrix (8%).
						Coring Times 10, 12,11,716-5,5,5,5,6-5,5,6,6,7-8,5,5,5,4
1513	1543	D				Interval drilled, no adequate samples recovered.
						Core #35 1543-1563' Recovered 20' (Cut 20')
		C		0.4'		Anhydrite - grey-brown, translucent, massive with minor dense brown limestone inclusions; slightly disconformity with underlying beds with dark brown bituminous (algal mattes) at contact.
		C		3.0'		Limestone light brown/brown-grey, microx/fine/medium calcarenite/slightly oolitic, well cemented/brown calcite. Numerous large plates brown calcite. Anhydrite, light/med gry as blebs in medium calcarenite (1.5' from top). Scattered brachiopod fragments with occasional concentrations algal mattes. Hairline cracks recemented with calcite, rare patches slightly silicified. Generally massive with nodular/rubbly bedding at base - rubble of cpxln (porcellaneous) brown limestone with matrix (L10%) light brown-yellowish microgranular limestone. Dense.
		C		5.8'		Limestone med brown/medium brown-grey,/becoming grey-brown toward base. Very fine/finely calcarenite.slightly oolitic well cemented (L5%) clear brown calcite; scattered brachiopod fragments. Scattered brown blades ?calcite; very slightly argillaceous (L5%). Indistinct bedding/massive, locally nodular with algal mattes; Rare grey anhydrite inclusions (L1%). Dense.
		C		0.7'		Limestone, light grey-brown/slightly brown nottling. Microx dolomitic (30%); grey anhydrite blebs (5%). Argillaceous (15%). Rare fossil fragments. Dense.
		C		6.9'		Limestone, yellow-brown/brown-grey/light grey-brown, cpxln (calcilutite) partly porcellaneous, finely stratified with rare intbd microx lst. occasional very dark brown laminae. Very slightly argillaceous: (L5%). Rare algal matte. Dens

SAMPLES NOT LAGGED

Sheet No. Thirty-Nine

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C		0.8'		Limestone light brown-grey/medium grey/light brown, mottled Microcrystalline/very finely calcarenite, parchily micro-granular. Grey anhydrite inclusions at top. Large drk brown calcite plates. Nodular/rubbly. Slightly argillace-ous. Dense.
		C		1.1'		Limestone light brown/grey slightly brownish, cpxln (calcil-utite) partly porcellaneous, finely stratified, slightly argillaceous with thin laminae at base very argillaceous(40% Dense.
		C		0.6'		Dolomite light grey slightly brownish/brown, microx; calca-reous (20%). Patches gry anhydrite (10%). Argillaceous (5%). Dense.
		C		0.5'		Dolomite light grey/buff, cpxln/microx with dark brown irregular laminae (algal?) slightly bituminous. Argillaceo (10%). Calcareous (20%). Faint irregular bedding. Anhy-drite inclusions (10-15%). Dense.
						Coring Times 5,8,7,7,7-7,8,5,4,6-7,6,5,6,6-8,6,8,9,12
1563	1605	D				Interval drilled. No samples.
						Core #36 1605-1625' Recovered 20' (Cut 20')
		C		1.0'		Lst brown-grey/grey-brown, microx/cpxln. Locally very fine-ly calcarenitic; grey anhydrite blebs/inclusions (5-10%); local concentrations crystal blades. Siliceous (10%). Dens
		C	1.8'			Lst light brown-yellow, microgranular/microx. Faintly stratified. Argillaceous (5%). Poor earthy porosity.
		C	3.4'			Limestone, light yellow brown, microgranular/very finely calcarenitic, medium/coarse bioclastic (10%) - crinoid/ brachiopod fragments, rare algal mattes, with nodules grey microx lst. Rubbly/nodular. Argillaceous (5%). Poor earthy porosity.
		C		6.6'		Limestone grey-brown/brown/dark brown/light grey, partly mottled, cpxln/microx, partially very finely calcarenitic. Finely stratified/laminated. Slightly silicified (5-10%), very slightly argillaceous (L5%). Dense.
		C		5.2'		Limestone, grey-brown/rarely yellowish brown, fine calcaren-ite/patchily microgranular; bioclastic (10-20%), partially

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Forty
						oolitic - brachiopod fragments. Massive/partly nodular. Slightly argillaceous (5%). Dense.
		C	1.2'			Limestone - grey-brown, microx/very finely calcarenitic, slightly bioclastic, nodular rubbly with matrix (20%), light yellowish brown, microgranular/partially finely calcareniti /oolitic, - medium/coarse bioclastic (10%). Crinoid brachiopod fragments. Rare fragment grey anhydrite. Rare algal matte. Poor earthy porosity in matrix. C
		C		0.8'		Dolomite - grey/light grey-brown, cpxln/microx; slightly anhydritic (L5%). Argillaceous (20-30%). Faintly stratified. Dense.
						Coring Times 5,7,7,7,5-4,7,10,9,8-7,6,7,8,7-7,7,6,5,6
						Core #37 1625-1645' Recovered 20' (Cut 20')
		C		3.9'		Dolomite, grey/olive green-grey, cpxln/microx; with numerous dark grey specks, anhydritic (5%). Argillaceous 20-30%. Dense. Finely laminated.
		C		3.4'		Dolomite buff/light brown-grey, cpxln/microx, thin bedded with dark laminae ($\frac{3}{4}$" apart). Slightly argillaceous (10%). Dense.
		C		1.4'		Dolomite, very light grey/partially mottled grey, microx dolosiltite), partly pseudo-oolitic, faecal pellets, algal mattes?. slightly bioclastic (L5%); argillaceous (20%), slightly calcareous (10%). Slightly anhydritic (5%) with blebs and fine stringers, dark grey, very fx, irregular bedding.
		C	7.5'			Lst brown/dark brown-grey, cpxln, (biomicrite); rubbly/nodular bedding with matrix (30%) light grey/light-grey-brown, calcisiltite, partly earthy; becoming slightly dolomitic towards base; white tripolitic blue-grey chert nodules (5%). Rare hairline fractures with dark grey anhydrite, rarely as small blebs (L2%). Algal mattes/rare stromatoporoids. Poor earthy/microgranular porosity in matrix.
		C		0.8'		Dolomite; dark grey-brown/dark brown/grey-brown, cpxln/micro argillaceous 2(20%) with occasional dark brown bituminous streaks. Rare faecal pellets, with occasional algal matte. Partly rubbly as above. Rare pin-point porosity.

SAMPLES NOT LAGGED

GEOLOGICAL SAMPLE DESCRIPTION

Sheet No. Forty-One

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
		C		0.9'		Dolomite; light grey with very dark grey streaks/whirls, microx, argillaceous/silty (20%). Faint very fine beddin Dense.
		C		0.6'		Dolomite, grey-brown/brown/dark grey, microx/cpxln, with patches :faecal pellets; argillaceous/pt silty (20%). Irregularly bedded/pt rubbly with algal mattes. White/bf trapolitic chert nodules (5%).
		C		0.8'		Dolomite grey/dark grey-brown, cpxln/microx; argillaceous (20%). Vermiform with infilling very light brown-grey very fine/microx, dolomite. Dense.
		C		0.7'		Lst dark brown-grey/light brown/brown-grey, cpxln, part rubbly/finely laminated - part, wavy; rare patches faecal pellets. Rare white trapolitic chert (2%).
						Coring Times 7-10,13,12,13-14,10,13,11,9-9,10,8,7,9-9,12, 16,9,10.
						Depth correction made at 1645.
						Core #38, 1656-1674' Recovered 17.3' (Cut 18')
		C	5.6'			Limestone, medium brown/brown grey, cpxln (biomicrite), very light grey, microx, silty (10%), with med./dark grey, cpxln, argillaceous (20%) dolomite. Rubbly/nodular, irregular bedding with matrix (10%), light brown grey, lst, microx (calcisiltite), (dolomitic in upper 2') with algal mattes. Rare interbeds medium calcarenite; coarsely bioclastic with crinoid fragments. Occasional blebs, anhydrite, dark grey, f xln (2%). Slightly erosional hiatus with underlying limestone. Very poor intergranular porosity in matrix.
		C	1.3'			Limestone, brown-grey/light grey-brown, f/med calcarenite; bioclastic with crinoids and solitary corals. Irregularly bedded/part rubbly with matrix (10%), light brown, finely granular limestone, algal mattes. Trace anhydrite (L2%). Dense with poor intergranular porosity in matrix. Becoming thinly bedded basal 3".
		C		0.4'		Dolomite, med brown-grey with dark grey laminae/whirls, cpxln; argillaceous (10%). Vermiform with infilling light brown/buff dolosiltite - calcareous (25%). Irregular contact with underlying limestone.

SAMPLES NOT LAGGED

Sheet No. Forty-Two

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C	10.0'			Limestone, med brown-grey, cpxln (biomicrite), grading to fine calcarenite (bioclastic). Irregularly bedded/nodular pt rubbly with local erosional surfaces. Matrix (10-20%) light brown/buff-brown, calcilutite/very fine granular, medium/finely bioclastic with much crinoid debris, locally matrix is sufficient to become thin interbeds. Matrix generally dense but locally p/f intergranular porosity. Stromatoporoids, solitary corals, crushed brachiopods, corals (colonial and solitary), algal mattes, crinoids. Very rare dark grey brown, aegillaceous (20%), dolomite interbeds. Coring Times 12,12,12,10,9-9,8,10,9,8-9,9,9,13,17-12,13, 12
						Core #39 1674-1694' Recovered 20.0' (Cut 20')
		C	6.1'			Limestone, med brown-grey, cpxln (biomicrite) grading fin calcarenite. Irregularly bedded/nodular, pt rubbly. Matrix (10-20%) light brn/bf-brn calcisiltite/v f granular; med/crsly bioclastic, crinoids with solitary corals, brachiopods, algal mattes; locally fair intergranular porosity in matrix with rare vugs towards base.
		C		1.3'		Dolomite, grey/light grey-buff/greenish grey, cpxln/dolosiltite, calcareous (10-20%), argillaceous (10%). Fine/coarsely laminated with occasional rubble intbd. Vermiform upper 3". Dense.
		C		6.1'		Limestone, med brown/grey-brown. Occasional dark grey-brown laminae, cpxln (Calcilutite), slightly dolomitic in basal 0.6'. Wellls bedded/fine med laminated, rarely slightly rubbly. Rare stroms/algal mattes. Dense. Rare xln blades brown clacite. Scattered disseminated pyrite/pyrrhotite.
		C		1.7'		Dolomite, brown/dark brown-grey, microx, slightly argillaceous (10%). Finely laminated.
		C		4.0'		Dolomite, light brown with intbds darker brown, microx/dolosiltic, slightly argillaceous (5-10%). Rare blebs anhydrite (L2%). Coarsely/poorly laminated with dark brown grey slightly bituminous laminae. Scattered brachiopods, algal (stroms) with poor pin-point/rare scattered microvu s

SAMPLES NOT LAGGED

Sheet No. Forty-Three

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C		0.8'		Limestone med brown/brown-grey, cpxln, (biomicrite)/microx. Very slightly argillaceous (5%). Slightly dolomitic (10-15%). Scattered crushed brachiopods. Fine but faintly laminated with occasional irregular/rubbly laminae. Coring Times 10,6,8,13,13-14,12,13,14,15-15,12,20,23,12-8,8,10,11,11
						Core #40 1694-1714' Recovered 19.5' (Cut 20')
		C		4.3'		Lst; medium brown/brown-grey, cpxln (calcilutite-biomicrite) pt microx. Very slightly argillaceous (5%). Slightly dolomitic (10-15%). Fine but faintly laminated, pt nodular/rubbly; pt vermiform; crushed brachiopods, ?algae. Dense.
		C	7.0'			Lst brown-grey/cpxln (biomicrite). Rubbly/nodular, irregular bedding with matrix (40-50%), light brown/brown-grey/buff, medium/f calcarenite, highly fragmental with calcisiltite/microgranular matrix. Crinoids/stromatoporoids corals (Favosites), brachiopods, algae. Scattered m-gry anhydrite blebs (2%). Petroliferous/gassy odour on breaking. Poor pin-point/microgranular porosity in matrix.
		C		8.2'		Lst, brown/grey-brown, cpxln (calcilutite). Fine/coarsely banded generally well bedded rarely irregular. Slightly argillaceous (5%). Rare biomicrite lenses with scattered brachiopods. Dense. Coring Times 14,15,16,14,10-10,6,5,7,6-8,10,11,12,13-14,13,13,15,16.
						Core #41 1714-1732' Recovered 17.5' (Cut 18')
		C		1.2'		Lst brn/gry-brn, cpxln (calcilutite). Fine/coarsely banded generally well bedded. Slightly argillaceous (5%). Rare biomicrite lenses with scattered brachiopods. Dense.
		C	13.4'			Lst; gry-brn/brn, cpxln (calcilutite) with hairline fracture infilled with f xln, gry anhydrite (L2%). Nodular/rubbly with irregular bedding - becoming regular/well bedded coarsely laminated in basal 2'. Matrix (20%), light brown/buff, calcisiltite/pt finely granular, pt bioclastic with crushed brachiopods, slightly argillaceous (5%). Very poor inter-

SAMPLES NOT LAGGED

Sheet No. Forty-Four

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						granular, porosity in matrix with no permeability.
		C		2.9'		Dolomite, grey/brn-grey, microx, argillaceous (20%). Fine but faintly laminated rubbly with pebbles of brown-grey calcilutite as above. Calcareous (20%) in upper 0.4'. Scattered worm burrows. Rare hairline fractures with fxln grey-brown anhydrite. Dense.
						Coring Times 20, 15,16,7,15-9,11,10,10,15-12,19,23,19,19,-21,17,25
1732	1744	D				Drilled interval. No samples.
						Core #42 1744-1761' Recovered 15.6' (Cut 17')
		C	11.0'			Lst., v lt brn/bf, f/med calcarenite/pt oolitic, highly bioclastic-crinoids, brachiopods with numerous crushed brachiopods, with matrix (10%), microgranular/vf granular/ slightly earthy, slightly argillaceous. Very poor intergranular/rare solution vug, porosity, no permeability. Rare buff tripolitic chert nodules (2%). Rare anhydrite bleb in basal part of section (L2%). Massive/irregular bedding, pt rubbly.
		C		1.7'		Lst, grey-brown, cpxln, micrite/calcilutite, pt silicified (5%) with light grey chert nodules (10%). Banded. Dense.
		C	2.9'			Lst, v light brown/buff, f/med calcarenite, highly bioclastic - crinoids/brachiopods, pt oolitic, with microgranular matrix (10%), very poor intergranular porosity no permeability. Partially silicified (5%). Massive irregular bedding, partly rubbly.
						Coring Times 17,9,10,11,10-11,11,12,12,12-11,11,11,11,12-12,11.
						Core #43 1761-1781' Recovered 20' (Cut 20')
		C		3.0'		Lst, dark grey-brown, cpxln/rarely microx, (calcilutite) wt rare hairline fractures infilled m xln anhydrite, with matrix (20%) buff/light brown, microgranular lst, rarely bec. biomicrite. Slightly argillaceous (5%). Partly rubbly/nod-

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Forty-Five
						ular, irregular bedding. Dense.
		C	15.5'			Lst, grey-brown/dk grey-brown, cpxln/rarely microx (calcilutite), increasingly bioclastic (biomicrite), with hairline fractures infilled grey anhydrite/rarely pyrite, pyrrohtite Partly nodular/rubbly, to irregular bedded with matrix and thin intbds light brown/buff, microgranular matrix (30-40%) variably bioclastic locally becoming extremely bioclastic (crinoids/brachiopods) and finely granular, with fair pin-point and intergranular porosity (very low permeability), locally becoming brachiopod coquina (generally increasingly bioclastic toward base). Scattered corals (Favosites) rare stroms/algal with poor intraorganic porosity and microvugs. Scattered rubble/nodular partly dolomitic/partly silicified Occasional grey chert nodule (upper 8') with tripolitic exterior.
		C	1.5'			Lst; med brn-gry, medium clacarenite, partly oolitic, strongly bioclastic. (Crinoids, crushed brachiopods) scattered corals (?algal), with bf/lt brn microgranular matrix (20%), rarely slightly siliceous. Poor intergranular porosity with very low permeability.
						Coring Times 20,13,11,8,15-13,11,11,8,13-9,9,11,9,7-6,8,9, 6,7
						Core #44 1781'-1801' Recovered 20' (Cut 20')
		C	10.8'			Lst medium brn-grey; cpxln (calcilutite 60%), with rare anhydrite filled, hairline fractures, interbedded and grading to fine calcarenite, (40%), light brown, bioclastic with crushed brachiopods/crinoid stems, ossicles with v lt brn/bf microgranular to earthy matrix (10%). Massive to poorly/irregularly bedded; partly nodular rubbly. Rare pin-point porosity with very poor intergranular porosity, non-permeable.
		C	9.2'			Lst; med brn-gry, cpxln (calcilutite 80%) locally intbd with fine calcarenite, brn-brn-grey, bioclastic with buff microgranular matrix (5%). Well bedded, medium/coarsely laminated ($\frac{1}{2}$"/1"), rarely with thin nodular/rubbly intbds. Dense.
						Coring Times 7,8,6,5,6-7,6,6,7,6-8,7,7,6,7-8,10,9,6,9.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Forty-Six
						Core #45 1801-1820' Recovered 19.6' (Cut 19')
		C		2.3'		Lst, med brn-grey, cpxln (calcilutite), intbd minor fine calcarenites, bioclastic; pt micro-oolitic; medium/finely laminated. Minor sparry veinlets. Dense.
		C		17.3'		Lst; med gry-brn/brn-gry; cpxln (calcilutite/biomicrite), sl bioclastic with minor intbds/laminae microx lst. Rare dk laminae. Finely laminated with minor brecciation and local erosion. Slightly argillaceous (L5%). Scattered brn crystal blades (?anhydrite). Dense.
						Coring Times 15,10,9,7,8-7,6,8,7,8-9,8,8,9,8-7,9,6,6.
						Core #46 1820-1839' Recovered 19' (Cut 19')
		C		2.5'		Lst: lt gry-brn/brn-gry/cpxln (calcilute) partly mottled b; buff, microx, lst. Argill (5%). Sl dolomitic (5-10%). Faint relict fossil fragments. Rare, scattered blades and impregnations of anhydrite (L2%). Fine/medium (faint) laminations, rarely irregular. Dense.
		C		5.3'		Dolomite, gry/dk gry partly mottled (?worm burrows), cpxln; argillaceous (15-20%). Massive, Dense.
		C		1.5'		Dolomite; dk gry, microx with minor laminae argillaceous gry dolomite. Finely laminated/partly irregular. Very anhydritic (30%).
		C		0.3'		Dol. brn-gry, microx, sl argillaceous (10%) with patches/ fine laminae v lt grey/dk gry, anhydrite (40%). Dense.
		C		3.0'		Lst brn-gry, cpxln (calcilutite), scattered motling with bf microgranular lst. Scattered brachiopod impressions. Argillaceous (10%). Numerous brown crystal blades, anhydrite. Faint/poor stratification. Dense.
		C		2.2'		Lst bf/lt brn-gry, microx/partly micro-oolitic.faecal pellets, minor brn-gry, calcilutite as abvoe. Argillaceous (15%). Dark brown, anhydrite blades. Dense.
		C		2.0'		Lst, olive gry/gry-brn, cpxln (calcilutite) argill (15%). Faint, fine stratification. Dense.

SAMPLES NOT LAGGED

Coring Times 7,6,7-8,10,9,8

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Forty-Seven
		C		2.2'		Lst. bf/lt brn-gry/gry-brn; cpxln/microx/partly micro-oolitic with scattered faecal pellets. Faint, fine stratification. Argill (15%). Dense.
						Coring Times 10,15,13,12,15-13,11,13,17,11-13,12,9,9,10-9, 9,12,10
						Core #47 1839-1859' Recovered 19,2' (Cut 20')
		C		7.4'		Lst. brn-brn-gry; cpxln (calcilutite), sl argillaceous (L5%). Finely stratified with bf/lt gry-brn cryptogranular lst; locally micro-oolitic/pelletae; argillaceous (15%). Local concentations brn anhydrite blades. Dense.
		C		2.3'		Lst, lt brn/brn-gry, fine/med clacarenite/partly oolitic, bioclastic with fossil fragments, crinoid ossicles. Well cemented clear calcite (5%) with rare ineffective pin-point porosity. Finely stratified.
		C		3.1'		Lst brn-gry, cpxln (calcilutite 50%), interbanded with fine /medium calcarenite. Fine calcarenite-bf, sl argillaceous (10%) partly microgranular matrix 10%. Medium calcarenite gry/gry-brn, bioclastic, considerable quantities of brachiopod, locally brachiopod coquina, occasional with fragments /nodules; gry, argillaceous dolomite/brn calcilutite. Scattered anhydrite blades. Rare bituminous (?algal) streaks, Slightly argillaceous (5%). Fine/coarsely banded. Dense.
		C		1.1'		Dolomite, gry, cpxln (dololutite), argillaceous (20%). Sl anhydritic with localised brn anhydrite blades (2%). Massive/coarse bedding. Dense.
		C		0.5'		Dolomite gry/brn/brn-gry, cpxln. Argillaceous (10%). Coarsely stratified with dk gry bituminous laminae. Dense.
		C		0.9'		Lst; lt brn-gry/bf, fine/med calcarenite/partly oolitic, bioclastic (brachiopod fragments), well cemented with microgranular/clear calcite, cement (10%). Sl argillaceous (5%). Sl anhydritic (5%). Dense with patches poor pin-point porosity.
		C		1.7'		Lst; gry/gry-brn/brn-gry, cpxln (calcilutite) to very fine calcarenite (interbedded) with rare dololutite intbd. Argill (10%). Coarsely bedded rarely finely but faintly laminated. Generally dense with very poor pin-point porosity in the

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. Forty-Eight
						calcarenite intbds.
		C	1.4'			Lst; bf/lt/med gry-brn. Fine calcarenite/locally medium calcarenite, partly oolitic, sl bioclastic. Microgranular matrix (20%). Argill (10%). Fair pin-point to intergranular porosity. Massive.
		C	0.8'			Lst, brn, cpxln (calcilutite) with brn anhydrite blades, interbedded with gry-brn, fine/med calcarenite, with lt brn /bf microgranular matrix (20%), bioclastic with brachiopods and rare solitary corals. Poor pin-point porosity in calcarenite.
						Coring Times 15,10,11,15,9-15,15,13,11,11-11,11,13,10,7-13 4,9,7,10
						Core #48 1859-1879' 19.6' Recovered (Cut 20')
		C		10.4'		Dolomite, bf/brn/dk brn-gry, cpxln (dololutite), rarely microx, v sl bioclastic. Rare gastropod. Argillaceous (L (10%). Finely/coarsely stratified, partly finely laminated with rare blk/v dk gry bituminous laminae. Dense.
		C		0.8'		Dolomite,bf, cpxln/microx. Massive with pseudo-nodular appearance with dark brown aureoles. Pseudo-stylolites (dk gry-brn). Dense.
		C		6.6'		Lst bf/brn/gry-brn, cpxln (calcilutite). Dolomitic (30%). Blades of brown calcite. Rare brachiopod. Finely stratified,gnlly flat with rare oblique bedding (cross-bedded). Dense.
		C		1.8'		Dolomite, bf/lt gry/lt brn, with rare dk gry laminae, cpxln, rarely microx (dololutite), locally (0.8' from base). dolocarenitic, medium with microgranular matrix (50%), overlain by locally brecciated/fractured zone (with aureoles), with dk gry dolomite infill. Argill (10%). Massive to locally finely stratified.
						Coring Times 15,9,7,8,10-8,13,9,9,8-8,9,10,8,7-8,14,12,10, 12.
						Core #49 1879-

SAMPLES NOT LAGGED

Sheet No. Forty-Nine

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Core #49 1879-1899' Recovered 20.0' (Cut 20')
		C		1.6		Dolomite; lt gry/bf, cpxln (dololutite), with locally developed dk gry laminae with rare zones dolocarenite. Argill (10%). Coarse/finely banded
		C		0.9		Lst; brn/gry-brn/bf/gry; cpxln occ microx; very dolomitic (40%). Very slightly anhydritic (2%). Argill (10%). Finely stratified becoming very irregular towards base.
		C		0.5		Dol. m-gry slightly brownish, cpxln (dololutite), slightly argill (5%). Massive to poorly bedded dense.
		C		0.7		Dol; bf/lt-dk brn/rarely gry-brn; med/crs dolocarenite with brachiopod fragments. Irregular nodular bedding with pebbles dk gry, argill dolomite with variable matrix bf/lt brn, cpxln/microx dol.
		C		2.8		Dol; bf/lt gry/lt gry-brn, cpxln/microx. Massive with occasionally thin dk gry slightly bituminous laminae. Argill (L2%). Pseudo-stylolites/breccia with aureoles. Dense.
		C		6.3		Lst brn/brn-gry occasionally bf, cpxln (calcilutite). Slightly dolomitic (10%). Numerous brown, calcite plates scattered horizontal/vertical very dk gry bituminous streaks. Finely stratified with local interbedded/interstratal solution breccias.
		C		3.4		Lst; brn/brn-gry, cpxln (lithographic-calcilutite60%), admixed and interbedded with dolomite (40%), bf/lt brn-gry; cpxln/microx; very slightly argill (L5%). Poorly bedded/nodular, with interstratal solution breccias, with numerous lamellae and pseudo-stylolites very dk gry bituminous material.
		C		3.9		Lst; brn/gry-brn/bf, cpxln (lithographic-calcilutite). Dolomitic (10%). Scattered brown ?calcite plates. Finely stratified rarely irregular with minor interbeds, bf, microx dolomite.
						Coring Times 15,9,8,7,10 - 8,13,9,9,8 - 8,9,10, 8,7 - 8,14,12,10,12.

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty
						Core #50 1899-1919' Recovered 20' (Cut 20')
		C		2.5		Lst; brn/brn-gry, cpxln (calcilutite). Slightly dolomitic (10%). Finely stratified becoming slightly irregular in basal 0.2'. Dense.
		C		2.0		Dol; lt brn/brn-gry/occ bf, microx/cpxln. Argill (10%). Well bedded/coarsely banded rarely finely stratified with dk gry laminae.
		C		0.5		Dol; bf/lt-med brn; microx; irregular bedding with interstratal breccia with dk gry cpxln matrix.
		C		1.1		Dol; bf/lt brn/brn-gry; microx; argill (10%). Massive to coarsely stratified.
		C		0.9		Dol; bf/lt brn-gry; microx, brecciated with matrix/streaks and stylolites, dk gry cpxln dolomite.
		C		3.9		Dol; lt gry-brn/bf, microx. (originally med ? calcarenite). Argill (10%). Massive to coarsely banded with finely stratified intervals.
		C		0.7		Dol; gry slightly brnsh, microx. Argill (15%). Massive. Dense.
		C		0.8		Dol; med gry/bf, microx/cpxln. Argill (15%). Dense.
		C		1.6		Lst; gry/bf, cpxln (calcilutite). Dolomitic (10%) - slightly disconformable contact with overlying dolomite. Massive with rare hairline Fractures. Dense.
		C		5.8		Lst; gry-brn, cpxln/microx. Dolomitic (10%). Argill (L2%). Fine but very faint stratification. Several vertical fractures infilled very dk gry, slightly bituminous argillaceous lst.
						Coring Times 19,10,9,6,5 - 5,4,4,5,5 - 5,9,9, 8,7 - 11,11,10,8,7.

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Fifty-One
						Core #51 1919-1939' Recovered 20' (Cut 20')
		C		0.1		Lst; gry-brn - cpxln/microx. Dolomitic (10%). As above.
		C		3.1		Lst; lt-med gry brn, cpxln/microx with minor thin interbeds, bf/lt gry fine calcarenite. Dolomitic (10%). Argill (5%). Finely (wavy) stratified with patches breccia with bf micro-granular matrix.
		C		2.7		Lst; lt gry-brn/bf with dk gry slightly bituminous laminae basal 0.5'; microx; partially micro-oolitic. Dolomitic (10%) increasing to 20% basal 0.5'. Argill (10%). Fine horizontal stratification.
		C		3.3		Dol; gry/brn-gry; microx/locally very finely granular. Argill (15%). Finely stratified with rare dk gry slightly bituminous stylolite. Dense
		C		1.3		Dol; dk gry/bry/olive gry, cpxln. Argill (15%). Rare brachiopod fragment. Very fine wavy stratification, slightly vermiform with infilling, lt brn/bf, microx dolomite. Part slightly silicified.
		C		0.5		Dol; gry-brn/brn/bf/dk gry, cpxln/microx. Argill (10%). Very fine, wavy stratification.
		C		3.3		Dol; gry-brn/lt brn; microx/cpxln (partly micro-oolitic). Massive to coarsely banded with minor finely stratified intervals/with dk gry, laminae. Argill (15%). Dense.
		C		0.6		Lst; lt gry/bf, fine calcarenite, bioclastic with brachipod debris. Matrix (10%) microx. Argill (10%). Fine irregular stratification.
		C		3.3		Lst; lt brn/lt gry-brn, cpxln (calcilutite 70%) with interbedded fine calcarenite/bioclastic as above (lt gry/bf). Faint poor banding.
		C		1.8		Lst; lt brn, cpxln (calcilutite 30%) interbedded bf/lt gry-brn, microx lst (40%) with numerous brachiopods - interbedded, lt gry-brn

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Two
						fine calcarenite, bioclastic. Poorly bedded partly nodular dense. Cephalopods - corals, algae.
						Coring Times 10,7,7,11,9 - 9,10,9,13,13 - 11,11,7,8,12 - 9,9,9,8,8.
						Core #52 1939-1959' Recovered 20' (Cut 20')
		C		0.1		Lst; lt brn, cpxln (calcilutite). Poorly bedded, dense.
		C		1.0		Dolomite; bf/lt brn/gry-brn/dk gry; f xln/microx (originally fine ? calcarenite). Brachiopod fragments. Very irregular bedding/partly brecciated, scattered poor pin-point microvuggy porosity.
		C		0.8		Dol; brn/bf occasionally dk gry-brownish, microx. Argill (10%). Finely (horizontal) stratified. Dense.
		C		0.4		Anhydrite; very dk gry-brn; very f xln, with bf/lt brn fragments of microx dolomite.
		C		1.8		Anhydrite; very dk gry-brn, microx, slightly dolomitic (10%) with very thin laminae, med-brn anhydritic dolomite.
		C		1.7		Dolomite; med gry/gry-brn; cpxln/microx with rare minor interbeds (2" thick) bioclastic, fine dolocarenite. Argill (15-25%) with thin interbeds (1") dolomitic anhydrite. Coarsely stratified.
		C		0.5		Dolomite; lt-med brn, microx/cpxln. Argill (10%). Fine (horizontal) stratification.
		C		0.7		Anhydrite; gry-dk gry, cpxln with minor laminae (30%) bf/lt brn, microx, dolomite.
		C		0.6		Dolomite; bf/lt brn, microx.
		C		0.5		Anhydrite; gry-dk gry, cpxln.
		C		2.3		Dolomite; gry/lt brn/occasionally bf, microx/cpxln. Argill (15%). Coarsely banded with

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Three
						occasional very dk gry laminae.
		C		4.3		Dolomite (70%), med gry-brn, fine dolocarenite/ lt gry microx. Argill (15%). Poorly bedded/ partly brecciated with irregular inclusions anhydrite (30%) gry/dk gry, microx/ very fine xln.
		C		0.8		Dolomite; brn occasionally lt br; cpxln/ locally medium dolocarenitic; sub-reefal texture Several medium gry chert inclusions (5%). Poor/ occasionally fair microvuggy porosity locally becoming intergranular - scattered coarse xls in some vugs. Gastropods.
		C		3.5		Dolomite; bf/lt brn/gry-brn, fine dolocarenite/ microx. Medium/coarse banding, locally finely stratified with dk gry/blk bituminous laminae. Scattered solitary corals and brachiopods. Argill (10%). Generally dense but locally (particularly upper 1') poor/fair pin-point porosity with very poor intergranular porosity.
						Coring Times 6,12,16,11,11 - 8,6,8,9,6 - 8,8,10,8,5 - 4,3,4,3,4
						Core #53 1959-1979' Recovered 20' (Cut 20')
		C		1.0		Dolomite; bf/lt brn, fine dolocarenite/microx, with thin (½") med-gry chert band. Several large inclusions grey anhydrite (20%). Argill (L2%), silt (10%). Scattered poor/very poor pin-point/intergranular porosity.
		C		1.5		Dolomite; brn occasionally dk gry-brn, microx rarely very finely dolocarenitic. Argill (2%). Coarsely banded with minor dk gry laminae. Very poor pin-point porosity. Calcareous (10%)
		C		0.6		Lst; brn-gry/dk gry, cpxln, dolomitic (30%). Argill (5%). Anhydritic (5%). Scattered micro-vugs with partial infilling, med/coarse calcite xls.
		C		0.7		Dolomite; med gry/brn/dk gry, cpxln; argill (10%). Dense.

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Sheet No. Fifty-Four

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C		0.7		Dolomite; med/dk gry-brn, microx, argill (10%) calcareous (30%). Strongly vermiform infilled with bf/lt brn microx dol.
		C	2.8			Dolomite; brn/dk gry-brn becoming lighter in basal 1'. Microx, irregularly bedded, partly vermiform, with infilling bf, microgranular dolomite with poor microvuggy/intergranular porosity. Argill (10%).
		C		6.1		Lst; lt gry-brn/bf; fine locally medium calcarentic, partially oolitic, occasionally coarsely bioclastic with thin brachipod coquinas. Dolomitic (10%). Very slightly silty (5%). Generally massive with poor, faint irregular medium stratification. Dolomitic (10%). Very slightly silty (2%). Scattered very poor pin-point porosity/rarely becoming intergranular.
		C	1.8			Dolomite; lt gry/bf/lt gry-brn; microx (rarely cpxln) grading very fine/fine dolocarenite. Poorly bedded to partly vermiform with microx, lt brn/bf dolomite infilling. Fair pin-point porosity throughout with scattered vugs. Scattered concentrations, brown anhydrite blades.
		C		2.1		Dolomite; lt gry/gry rarely gry-brn, microx (70%) to finely dolocarenitic. Faint medium banding. Argill (15%). Dense.
		C		2.7		Dolomite; gry-brownish/rare dk gry-brn laminae, microx cpxln, interstratified with fine dolocarenite. Finely stratified (wavy-slightly irregular), very slightly argill (5%). Rare thin interbands ($\frac{1}{4}$/$\frac{1}{2}$") gry chert. Very poor scattered pin-point porosity rarely becoming fair intergranular porosity.
						Coring Times 9,5,4,5,3 - 3,6,6,8,7 - 7,6,7,7,6 - 8,5,5,3
						Core #54 1979-1999' Recovered 20' (Cut 20')
		C	5.2			Dolomite; gry-brn/med brn; Fine dolocarenite/ microx rarely microsucrosic, generally well

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Five
						cemented with scattered poor/fair pin-point porosity, rarely becoming intergranular with scattered vugs (with coarse dolomite xls). Argill (10%). Indistinct fine stratification with occasional coarse band, slightly silty, microx, dolomite. Locally slightly siliceous.
		C		6.6		Lst; med/lt gry-brn; fairly medium calcarenite, partly bioclastic, patchily pisolitic/oolitic, locally interbedded with brn, very dolomitic limestone cpxln/partly very finely calcarenitic. Rare, very lt gry chert nodules. Argill (L2%) silty (5%). Massive with faint coarse banding. Dense.
		C		2.2		Dolomite, dk/lt gry-brn, rarely bf; cpxln/microx (relict f/medium calcarenite texture). Slightly calcareous (10%). Scattered pin-point porosity. Grey anhydrite inclusions throughout (10%).
		C		5.7		Lst; lt gry-brn, med/fine calcarenite, partly bioclastic (crinoid, brachiopod fragments) partially oolitic. Dolomitic (10%) Grading to medium brn-gry dolomite, cpxln/microx (with relict calcarenite-fine-medium texture). Massive with very faint stratification. Rare poor pin-point porosity.
		C		0.3		Dolomite; lt gry/bf/med-dk gry; microx/micro-granular, slightly calcareous (10%) irregularly bedded, vermiform. Dense.
						Coring Times 10,6,4,7,8 - 6,10,11,9,8 - 8,9,10,9,10 - 11,6,6,6,9.
						Core #55 1999-2019' Recovered 19.5' (Cut 20')
		C		4.6		Dolomite, mottled bf/lt-med gry/lt brn; microx/ microgranular, slightly bioclastic with brachio-pods. Argill (15-20%), slightly calcareous (10%), very slightly anhydritic (5%). Irregularly bedded (pseudo-brecciated), vermiform. Poor scattered pin-point porosity and microvugs.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Six
		C		10.3		Lst, lt gry-brn/bf, cpxln/microx; with fine interbeds/admixtures, very fine calcarenite with clear calcite cement (10%), faint oolitic texture Scattered organic debris and brachiopods. Slightly dolomitic (5-10%). Rare anhydrite inclusions (2%). Massive to faintly banded. Dense
		C		4.6		Lst. lt gry/bf/lt gry-brn, cpxln (calcilutite) rarely microx, minor partings, very fine calcarenite. Faintly banded, locally irregular/ contorted. Dense.
						Coring Times 6,7,6,4,3 - 5,6,5,6,6 - 7,6,6,6,7 - 5,5,6,7,6
						Core #56 2019-2038' Receovered 18.5' (Cut 19'
		C		1.0		Lst, lt gry/bf, microx (calcisiltite) to very fine calcarenite. Fine, partly contorted laminations. Rare shale laminae. Dense.
		C		1.4		Lst, lt gry-brn/bf, microx (biomicrite) to partly very fine calcarenite with faint oolitic texture. Well cemented clear calcite (5%). Faintly banded. Dense.
		C		2.6		Lst, lt gry/bf, very fine/fine calcarenite, faintly oolitic, finely bioclastic. Clear calcite cement (10%). Medium banded. Brachiopods, occasionally cephalopod. Dense.
		C		3.0		Lst, gry-brn, calcilutite (60%), alternating with very fine/fine calcarenite, lt gry-brn/bf, well cemented clear calcite, bioclastic, faintly oolitic. Dense.
		C		3.0		Lst, lt brn-gry/bf, very fine/fine calcarenite, well cemented clear calcite. Medium banded, locally slumped (upper 1'), bioclastic. Dense.
		C	5.1			Lst, bf/lt gry-brn, fine/medium calcarenite, oolitic, highly bioclastic. Generally well cemented clear calcite, locally poor pin-point/

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Seven
						fine vug porosity. Scattered corals/brachiopods. Minor dk gry laminae. Massive, locally nodular.
		C		2.4		Lst, gry/medium gry, partly mottled gry/brn, cpxln (calcilutite). Irregular/nodular bedding with patches/partings, very fine/fine calcarenite, microgranular matrix, bioclastic. Rare dk gry bituminous laminae. Rare brachiopods. Dense.
						Coring Times 10,10,9,10,6 - 8,10,9,7,7 - 9,9,8,7,6 - 5,9,6,7
						Core #57 2038-2057' Recovered 19' (Cut 20')
		C		2.8		Lst, gry slightly brownish, cpxln (calcilutite). Irregular/nodular bedding with matrix (30%), bf/lt brn-gry, fine bioclastic calcarenite, locally microgranular, scattered poor intergranular porosity, matrix very slightly silty argill (5%). Scattered very dark gry bituminous laminae. Rare brachiopods.
		C		3.2		Dolomitic shale, med gry/olive gry, dolomitic (40-50%), with thin interbeds, very light gry dolomite (arg. 10%), fine xln/very fine xln. Well bedded/coarsely banded locally finely laminated. Rarely, patchily vermiform.
		C		4.4		Dolomitic shale, dk gry-brn/brn (40-50% dolomitic) with dk gry/blk shale laminae. Anhydritic (30%) fine/very fine xln.
		C		0.9		Dolomite, tan/lt brn, very fine x/microx. Argill (5%). Anhydrite inclusions (10%). Coarse/very coarsely banded. Dense.
		C		0.2		Dolomite, med gry-brn, cpxln, argill 15-20%).
		C		1.1		Dolomite, tan/lt brn, very fine xln (?relict calcarenite). Argill (10-5%). Rarely becoming tan cpxln. Scattered anhydrite beds (L10%). Coarse (indistinct) banding with minor irregular stratification (minor dolocarenite interbeds). Dense.

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Eight
		C		0.4		Anhydrite, very fine xln, dk gry, dolomitic (10%), partly brecciated with tan/lt brn dolomite with minor dolomite interbeds, microx/very fine xln.
		C		0.6		Dolomite med-brn/gry-brn, very fine xln/microx, slightly argill (10%). Anhydritic (40%) with minor anhydrite laminae.
		C		0.1		Anhydrite, dk gry, very fine xln, dolomitic (10%)
		C		0.8		Dolomite, lt/med brn, partly brecciated and interbedded with anhydrite (40%), very dk gry.
		C		0.9		Anhydrite, very dk gry, microx/very fine xln, brecciated and interbedded with lt/med brn dolomite (20%) very fine xln/microx.
		C		0.6		Dolomite, lt/med brn, very fine xln/microx. Anhydrite blebs (20%). Finely laminated, locally slumped (?organic).
		C		0.5		Anhydrite, dk gry/very dk gry, microx/very fine xln, poorly brecciated with dolomite as above.
		C		2.5		Dolomite, med-brn/brn-gry, fine/v.fine dolocarenite, bioclastic (30%) with brachiopods. Slightly calcareous (10%), anhydritic (20%) with scattered large inclusions, dk gry. Very fine bedding/partially irregular/cross bedded. Argill (5%). Dense.
						Coring Times 11,7,6,6,5 - 6,8,9,9,11 - 8,5,10,9,10 - 9,7,9,11
						Core #58 2057-2076' Recovered 19' (Cut 19')
		C		0.2		Dolomite, lt/med brn-gry, microx/fine dolocarenite. Slightly anhydritic (10%). Slightly argill (10%). Dense.
		C		1.4		Anhydrite, gry/very dk gry, microx/very finely xln. Partly brecciated and interbedded with dolomite (30%). Lt/med brn, microx/fine dolocarenite, argill (10%). Slightly bioclastic with brachiopod fragments.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Fifty-Nine
		C		3.1		Dolomite, lt/med brn, very finely xln (relict calcarenite), slightly bioclastic. Slightly anhydritic (10%), slightly argill (10%). Massive/indistinct bedding, partly regular/slightly irregular fine stratification. Dense.
		C		0.2		Anhydrite, med/lt gry, microx/very finely xln. partly brecciated with lt brn dolomite (15%), microx/very finely xln.
		C		9.5		Dolomite, lt brn occasionally med-brn, very fine/finely xln (relict calcarenite) well cemented (10%) with clear dolomite (cpxln). Partly bioclastic with brachiopod fragments/shadows. Anhydrite (15%) inclusions, lt gry/gry microx/finely xln. Scattered brown selenite blades. Massive/indistinctly coarsely banded with rare dk gry bituminous laminae. Rare coral/stromatoporoid fragments, gastropod. Generally dense with locally poor/fair pin-point porosity.
		C		4.6		Dolomite, lt/rarely med-brn, very finely xln (relict calcarenite). Slightly argill (L10%), minor lt/med gry anhydrite inclusions (10%), with scattered brn selenite blades. Massive to faintly medium banded. Scattered very poor pin-point(rarely intergranular) porosity. Minor interbeds, poor/fair porosity.
						Coring Times 20,20,10,10,9 - 11,6,5,6,6 - 5,5,6,6,6 - 5,5,5,5
						Core #59 2076-2095' Recovered 19.5' (Cut 19')
		C		4.7		Dolomite, lt brn rarely med-brn, microx/very finely xln (relict calcarenite), slightly bioclastic, very slightly argill (5%). Very minor interbeds (¼") lt/med-gry anhydrite. Indistinct fine/medium banding. Rare poor pin-point intergranular porosity.
		C	2.3			Dolomite, lt brn/bf microx/very finely xln (relict calcarenite). Argill (L5%). Partially indistinct medium banding. Numerous Favositid corals/stromatoporoids. Fair interxln/intra-organic

SAMPLES NOT LAGGED

From	To	Core C.D. Ditch	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						porosity alternating with dense bands.
		C	7.1			Dolomite, lt brn/bf rarely med-brn, very fine/ microx (relict calcarenite), partly ruditic/ brecciated. Very slightly anhydritic (L10%). Fine irregular bedding partly nodular with medium brn dolomite inclusions and interbeds. Fair pin-point/interxln porosity, interbanded dense layers. Scattered stromatoporoids, Pentamerid brachiopods.
		C		5.4		Limestone, med brn-gry, cpxln/microx (calcilutite 40%). Nodular/brecciated with matrix/ infilling/interbeds, med/fine calcarenite, bf/lt brn, dolomitic (40%), strongly bioclastic, brachiopods/corals-rare stromatoporoids, partially microgranular, slightly silty (5%). Poor pin-point/very poor intergranular porosity in calcarenite.
						Coring Times 17,17,10,10,7 - 6,7,5,6,8 - 7,8,6,10,10 - 8,11,10,9
						Core #60 2095-2125' Recovered 25' (Cut 30')
		C		12.5		Limestone, med brn-gry, cpxln (calcilutite 60%). Nodular/brecciated, partly ruditic with matrix/ interbedded, calcarenite, lt brn/bry-brn, v.fine/ fine, strongly bioclastic with brachiopods, crinoids Favositid corals, very dolomitic (40%) with microx dolomite cement. Occasional light gry tripolitic chert nodules. Slightly silty (5%) in calcarenite. Scattered very poor pin-point/intergranular/intra coral porosity, rarely becoming poor.
		C		1.7		Limestone, gry-brn/brn/dk gry, microx/partly coarsely calcarenitic/ruditic strongly bioclastic (20%), argill (20%), dolomitic (30%) (primarily matrix in calcarenite). Nodular/irregular bedding partly brecciated with very dk gry bituminous laminae. Dense.
		C		2.9		Dolomite, dk gry-brn, microx, argill (20%).

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-One
						Nodular/irregular partly brecciated with bf/lt brn dolomitic limestone, microx/fine calcarenite, strongly bioclastic (20%) with numerous brachiopods and corals.
		C		7.9		Limestone, gry/gry-brn, cpxln. (Calcilutite 30%). Nodular/irregular, with fine/v.fine calcarenite, lt/med brn/occasionally brn-gry, strongly bioclastic with corals, brachiopods and occasional stromatoporoids, slightly argill/silty (10%). Generally well cemented with microx/microgranular dolomite (30%). Scattered organic solution vugs with localised very poor intergranular/intra-organic porosity rarely becoming fair. Rare tripolitic grey chert nodules (2%).
						Coring Times 10,8,7,5,5 - 5,5,5,5,5 - 7,5,7,5,6 - 5,5,5,5,5 - 4,5,5,6,6 - 7,7,6,5,6
						Core #61 2125-2152' Recovered 24' (Cut 27')
		C	2.0			Limestone, lt brn/gry-brn, v.fine/fine calcarenit locally ruditic, strongly bioclastic with corals (Halysites/Favosites), brachiopods (Pentamerids) and occasional stromatoporoids, slightly silty/argill (10%) with grey tripolitic chert nodules (L2%). Slightly dolomitic (10-15%) primarily as cement. Thin interbeds gry-brn calcilutite (20%) Nodular/irregular bedding, partly brecciated. Poor locally fair porosity, organic solution vugs/intergranular/intra-coral.
		C	1.7			Limestone, med/dk gry, cpxln/microx (calcilutite 40%), dolomitic (10%), argill (20%) interbedded with bf/lt brn-gry, v.fine/fine calcarenite, bioclastic with microgranular matrix (10-20%). Nodular/partly irregular to medium banding. Poor/very poor intergranular porosity.
		C		0.6		Limestone, med/gry, microx/very fine xln, well cemented cpxln calcite (10%). Argill (15%). Interbanded/brecciated with bf/lt brn-gry: v.f/fine calcarenite, partly oolitic, bioclastic with brachiopods (Pentamerids) solitary corals

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-Two
						Slightly argill/silty. Very poor intergranular porosity with scattered organic solution vugs.
		C	2.1			Limestone, lt gry/bf lt brn, v.fine/fine calcarenite/ partly ruditic, partly oolitic, bioclastic with corals/brachiopods, slightly silty (10%) with bf/ lt brn microgranular matrix (20%). Minor inter-beds nodular/brecciated microx lst, med gry-brn, dense. Poor/fair intergranular porosity with scattered organic solution vugs.
		C		3.9		Limestone, med brn-gry, mottled with very dk gry streaks, cpxln (calcilutite), partly dolomitic (20%), coarsely interbedded with very dk gry argill (40%), lst. Strongly vermiform, with med/lt brn microx infill. Scattered solitary corals. Bedding partially nodular/irregular occasionally finely laminated. Dense.
		C	0.8			Limestone, lt brn/bf, fine calcarenite, patchily ruditic. Coarsely bioclastic with brachiopods, slightly silty (10%), slightly dolomitic (10%). Poorly bedded to partly nodular Scattered pin-point to poor intergranular porosity.
		C		12.3		Limestone, interbedded - bf/lt brn gry microx (40% limestone, lt gry brn fine calcarenites (15%) with calcilutites, med brn-gry slightly argill (15%) to dk gry, very argill limestone (40%). Minor (5%) interbeds, calcirudites, coarsely bioclastic (with poor intergranular porosity). Brachiopods (locally coquinas), solitary corals. Medium banding locally nodular, locally vermiform.
						Coring Times 11,8,7,8,10 - 5,8,7,12,12 - 10,8,7,9,13 - 13,13,13,15,16 - 13,17,14,19,17 - 21,15
						Core #62 2152-2182' Recovered 9' (Cut 30')
		C		3.2		Limestone, medium gry-brn, occasionally slightly greenish grey, (microx/cpxln), argill (25%), generally medium banded, partly nodular/irregular with patches lt brn, very finely granular dolo-

SAMPLES NOT LAGGED

From	To	Core C. Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-Three
						mitic (20%) limestone, with ineffective poor intergranular porosity. Numerous thin brachiopod coquinas.
		C	0.4			Limestone, lt/med gry/lt brn, cpxln/microx, ruditic with matrix (20%) med/fine calcarenite coarsely bioclastic, with partly microx cement. Scattered pin-point/microvuggy porosity in matrix.
		C		0.3		Limestone, med gry-brn, microx/cpxln, argill (25%) patchily vermiform. Dense.
		C		0.3		Limestone, lt/med-gry/lt brn, cpxln/microx, ruditic with matrix (20%), fine bioclastic calcarenite, patchily microgranular. Poor ineffective intergranular porosity.
		C		4.8		Limestone, med gry-brn, cpxln (calcilutite) medium/to coarsely interbanded with dk gry-brn argill (20%), limestone. Partly nodular/ brecciated with bf/lt brn matrix (10%) microx/ microgranular limestone. Scattered thin brachiopod coquinas with scattered crinoid stems. Dense.
						Coring Times 15,12,10,9,9 - 10,9,13,13,14 - 37,10,16,20,15 - 12,13,24,15,15 - 11,20,16,14,17
						Core #63 2182-2200' Recovered 14.5' (Cut 18')
		C		3.7		Limestone, lt/med gry-brn, cpxln (calcilutite) interbanded with dk gry cpxln, limestone, argill (20%), partly vermiform. Interbedded with v. fine calcarenite (20%), slightly bioclastic, slightly silty (5%) with scattered very poor intergranular porosity. Medium/coarsely banded, partially irregular/nodular with matrix bf/lt brn microgranular limestone (10%).
		C		0.3		Dolorudite/breccia - fragments (angular/rounded) of argill (30%), dolomite, cpxln, greenish grey with fine grained calcareous matrix (30%), with

SAMPLES NOT LAGGED

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-Four
						occasional thin dk gry bituminous laminae.
		C		3.1		Shaley dolomite/dolomitic shale, medium gry/slightly greenish with scattered fragments bf/very light gry, microx dolomite (top 0.7'). Shaley dolomite partly rubbly/brecciated with rounded and angular fragments, decreasing towards base.
		C		1.2		Dolomite/dolomitic shale, med gry/slightly greenish/dk gry, microx. Indistinctly finely laminated with occasionally fine laminae anhydrite (15%).
		C		1.0		Dolomite, dk gry/gry-brn, microx, anhydritic (40%). Finely laminated.
		C		2.2		Anhydrite, dk gry microx/very finely xln, dolomitic (10-20%). Finely laminated.
		C		0.6		Anhydrite, very dk gry, microx/very finely xln, dolomitic (20%) with fine interbeds, medium brn-gry dolomite, very fine/finely xln, partly earthy with microvugs (salt infilled).
		C		2.6		Dolomite, medium brn-gry, very finely granular/microgranular, partly earthy, minor gry dolomite interbeds, microx, argill (20%). Interbedded with dk gry anhydrite (20%), dolomitic. Indistinct fine bedding. Salt impregnated with scattered vugs (probably salt infilled) with 6" salt icicle.
						Coring Times 10,8,8,9,7 - 7,10,12,30,14 - 24,22,8,3,4 - 10,8.
						Core #64 2200-2219' Recovered 19.6' (Cut 19')
		C		0.8		Dolomite, medium brn-gry, microgranular/very finely granular, interbedded with dk gry dolomitic anhydrite (20%). Angular vugs, partially impregnated coarse salt xls.
		C		1.2		Dolomite, med.br, cpxln/microx, interlaminated with dolomitic anhydrite (30%), minor thin brecciated intervals.

SAMPLES NOT LAGGED

GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-Five

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
		C		13.4		Dolomite, med brn, rarely gry slightly reddish, cpxln/microx, very rarely very finely xln, anhydritic to interlaminated/interbedded dk gry anhydrite (40%). Anhydrite becoming primarily secondary towards base, globular and large blebs. Dense.
		C	4.2			Dolomite, med brn/brn, occasional dk streaks, microx rarely partly recrystallised to very finely xln sucrosic, very slightly anhydritic (L5%). Poorly bedded to indistinctly stratified. Poor interxln porosity.
						Coring Times 25,30,18,19,22 - 25,21,26,19,28 - 31,26,18,19,16 - 7,8,7,8.
						Core #65 2219-2238' Recovered 17.6' (Cut 19')
		C	3.6			Dolomite, lt/med brn, microx/occasionally very finely granular. Very slightly silty/argill (5%). Generally flat well bedded/to medium banded with occasional dk brn siliceous streaks, rarely slightly irregular wavy bedding. Fairly soft with ineffective poor intergranular porosity.
		C	7.1			Dolomite, lt/med brn, microx, very slightly silty argill (L5%). Flat well bedded medium banded with rare dk brn siliceous streaks. Harder than above with very poor ineffective interxln porosity.
		C	2.4			Dolomite, lt brn, microx rarely very finely xln. Silty (10%). Massive to indistinct medium banding. Fairly soft with ineffective poor inter xln porosity.
		C		1.3		Dolomite, lt brn, microx, argill (20%), scattered anhydrite blebs (L5%). Hard, dense.
		C		2.0		Dolomite, brn-gry/gry slightly greenish/dk gry, microx rarely very finely xln, argill (40%), anhydritic (10%). Massive with scattered discontinuous laminae, grey shaley dolomite. Dense.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION Sheet No. Sixty-Six
		C		1.1		Shale, med-dk gry, dolomitic (10%), hard, non-fissile.
						Coring Times 10,12,9,6,6 - 7,6,8,6,7 - 7,9,10,8,10 - 9,10,10,20.
						Core #66 2238-2257' Recovered 17.9' (Cut 19')
		C		0.3		Shale, med-dk-gry, dolomitic (10%), hard, non-fissile.
		C		0.6		Shale, med-dk-gry, dolomitic (10%), inter-laminated, dolomite (50%), brn/brn-gry, argill (20%), cpxln. Fine bedding, dipping 20°, partially slumped, brecciated.
		C		2.0		Anhydrite, gry/dk gry, microx, dolomitic (10%), with very thin interbeds, anhydritic, dolomite (L10%), dk brn-gry, cpxln. Massive to partly finely stratified.
		C		1.5		Dolomite, brn/brn-gry, microx/cpxln, salt impregnated with pin-point/to microvugs (dis-solved salt), grading to dolomite, gry slightly olive green, argill (20%), cpxln, anhydritic, partly occurring as angular fragments in brn dolomite. Anhydrite (50%), gry-dk gry, dolomitic (10%). Coarsely banded with occasional intervals brecciated into angular fragments with salt in-filling interstices.
		C		2.7		Anhydrite (70%), gry-dk gry occasionally bf, microx. Dolomite (30%), lt/med brn occasionally olive gry, cpxln/microx, anhydritic, occasionally banded dolomite but primarily as fragments within anhydrite.
		C		0.7		Dolomite, brn-gry, fxln/rarely very finely xln, well cemented with anhydrite with scattered blebs gry-dk gry anhydrite (20%). Dense.
		C		0.2		Anhydrite, gry/dk gry, microx, dolomitic with fragments/laminae, brn-gry, anhydritic, dolomite (20%).

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C		9.9		Dolomite, med/lt brn-gry, very finely xln/microx with minor interbeds of dolomitised medium calcarenite, relict bioclastic. Slightly anhydritic with scattered blebs (10%). Argill (L2%). Scattered pin-point to poor/fine vuggy porosity, possibly salt impregnated. Coring Times 11,19,18,37,23 - 17,21,21,14,15 - 22,12,14,11,15 - 14,12,13,10.
						Core #67 2257-2276' Recovered 19.7' (Cut 19')
		C	0.6			Dolomite, med-lt brn/gry, very finely xln/microx, slightly anhydritic with rare anhydrite blebs (5%). Scattered pin-point/poor fine vuggy porosity.
		C	9.3			Dolomite, microx/very finely xln, medium brn-gry/med brn, partly bioclastic, corals (colonial) (Relict calcarenite?) - locally semi-reefal with minor interbeds, cpxln, dolomite. Massive to locally nodular. Scattered pin-point/poor fine vuggy porosity.
		C	3.9			Dolomite, lt-med brn partly mottled lt gry, microx/cpxln, patchily very finely xln, sucrosic. Locally coarsely bioclastic to partly pseudo-reefoidal texture, increasingly bioclastic towards base. Rare gry tripolitic chert nodule. Scattered poor/fine vuggy porosity.
		C		1.0		Dolomite, med gry-brn, microx, locally very finely xln (? relict calcarenite), bioclastic-calcareous (30%) - (organic debris), argill (10%) Small fracture with slight displacement (1/8"), irregular contact with overlying dolomite. Dense.
		C		1.2		Dolomite, med gry-brn, microx/rarely very finely xln (relict calcarenite), bioclastic, crinoid fragments, slightly calcareous (10%), scattered coral fragments, argill (10-15%). Indistinctly irregular bedding (slightly vermiform). Very poor ineffective intra-coral porosity (?salt infilled).
		C		0.9		Limestone, dk gry-brn, fine calcarenite, partly

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						bioclastic, vermiform with lt brn dol. matrix. Argill (25%), dolomitic (20%). Coarsely interbanded with lt/med brn-gry, calcilutite, very slightly dolomitic (5%). Scattered coral fragments. Erosional/brecciated contact with overlying dolomite.
		C		2.8		Limestone, med brn/brn-gry, microx/cpxln, patchily fine calcarenite, dolomitic (25%), occasionally interbedded with very fine/finely xln, sucrosic dolomite. Partially irregular/nodular bedding with lt brn/bf microx/microgranular matrix (10%). Rare blebs lt gry coarse anhydrite. Argill (10%). Scattered poor/fine vuggy porosity/rarely very poor interxln, probably ineffective (salt impregnated). Rare broken corals.
						Coring Times 15,8,9,9,9, - 9,10,10,10,12 - 12,14,16,18,19 - 19,21,19,11.
						Core #68 2276-2295' Recovered 19' (Cut 19')
		C		1.0		Limestone, med brn/brn-gry, microx/cpxln, locally finely calcarenitic, dolomitic (25%). Slightly nodular bedding with lt brn/bf microgranular matrix (10%), argill (10%). Poor interxln/fine vuggy porosity, probably ineffective.
		C		1.0		Dolomite, lt brn/lt brn-gry, microx/rarely very finely xln, slightly argill (10%), slightly calcareous (10%). Massive. Dense.
		C		3.9		Shale, very dk gry, dolomitic (10-20%), hard, 'poker chip' fissility.
		C		3.8		Anhydrite, gry/olive gry, microx (partly coarsely recrystallised), very slightly dolomitic (5%). Sharp slightly uneven contact with overlying shale.
		C		0.4		Anhydrite, grey-slightly brnish, cpxln/microx, dolomitic (40%).
		C		2.5		Dolomite, gry-brn, cpxln with occasionally very

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Sixty-Nine
						dk gry laminae. Argill (10%). Scattered anhydrite blebs (5%) becoming numerous in upper 0.3', with brecciated contact with anhydrite. Rare salt casts and scattered brown selenite blades. Vertical fractures. Dense.
		C		6.4		Dolomite, lt-dk gry microx. Massive to occasionally medium/finely laminated. Dense.
						Coring Times 13,17,24,31,35 - 34,41,40,45,45- 30,20,17,23,21 - 21,25,24,19
						Core #69 2295-2314' Recovered 19.3' (Cut 19')
		C		1.9		Dolomite, brn/dk gry-brn, microx, rarely very finely xln, argill (10%). Medium to partly indistinct, alternating with finely/medium laminated intervals, slightly vermiform. Isolated pin-point vugs (?salt impregnated).
		C		1.5		Limestone, med brn/gry, cpxln (calcilutite), partially interbedded/mottled with lt brn, microx dolomite (40%). Rare thin fine calcarenite intervals. Faint fine/medium banding. Flat. Dense.
		C		6.1		Limestone, lt/dk gry-brn, cpxln (calcilutite), partially interbedded, mottled with lt brn, microx, dolomite, (40%). Medium banded, partially irregular/vermiform, partially nodular (pseudo-ruditic).
		C		9.8		Limestone, gry-brn/lt brn, cpxln, variably bioclastic. Partially interbedded, mottled with lt brn/bf, microx, dolomite. Coarsely banded with thin slightly bituminous laminae, strongly vermiform with cast infilled bf, microx, dolomite, casts ?algal encrusted, patchily pelletal, very slightly argill (L2%). Open vertical fracture with dolomite crystals on surface. Traces Isolated pin-point porosity, ineffective dense.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Seventy
						Core #70 2314-2333' Recovered 13.2' (Cut 19')
		C		7.8		Limestone, brn/brn-gry, cpxln(calcilutite), very slightly argill (L2%). Indistinctly medium banded with very dk gry-brn laminae, partly irregular/nodular, rarely ruditic. Locally vermiform with lt brn/bf, microx, dolomite infilling. Scattered solitary corals. Dense.
		C		0.3		Limestone, fine/medium calcarenite, medium brn-gry, cpxln, matrix. Much white chert (40%), elongate to nodular. Large pebble siliceous dolomitic shale. Sharp contact with underlying shale. Dense.
		C		0.6		Shale, med gry/gry-blue, very dolomitic (45%), siliceous. Vermiform with brn-gry cpxln, dolomite infilling.
		C		4.5		Shale, medium gry/gry-blue, highly dolomitic (45%), part finely stratified to finely interlaminated with shaley dolomite. Hard/'poker chip' fissility.
						Coring Times 30,20,25,15,20 - 20,20,24,19,20 23,22,20,25,32 - 45,35,37,20
						Core #71 2333-2349 Recovered 19.8' (part core #70). (Cut 16')
		C		0.4		Shale, gry sporadically dk gry, dolomitic (20%), blocky, fairly soft.
		C		2.2		Anhydrite, gry, microx/very finely xln, finely laminated with dk gry shaley dolomite/to gry-brn argill, dolomite (20%), cpxln/microx. Becoming coarsely laminated towards base. Sharp contact at base.
		C		1.3		Dolomite, lt gry-brn/lt brn, microx, rarely very finely xln, argill (10%) with minor gry bands, cpxln (20%). Indistinctly med/coarsely banded. Scattered pin-point porosity with scattered anhydrite or salt infilled vugs.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
		C		5.4		Dolomite, lt gry-brn/lt brn, microx. Medium/coarsely banded with dk gry-brn laminae, generally flat but occasionally vaguely cross bedded. 1.6' vertical fracture at top, infilled dk gry argill lst. Scattered microvugs primarily in lt brn earthy dolomite concretions.
		C		1.3		Dolomite, med/lt-gry-brn, mottled, cpxln/microx, argill (5-15%). Irregular bedding/partially wavy (ripple marks). Dense.
		C		2.2		Dolomite, med gry-brn/gry, cpxln. Fine/med laminated, frequently disturbed to slumped, partly vermiform - casts infilled, lt brn/bf microx dolomite. Dense.
		C		1.0		Limestone, brn-gry, cpxln (calcilutite). Fine/medium banded with thin laminae of speckled dk/lt gry-brn, fine calcarenite, bioclastic (brachiopods), argill (15%), with microgranular matrix (10%), scattered fine brachiopod coquinas. Flat well bedded. Dense.
		C		0.3		Limestone, med brn-gry, med/fine calcarenite, oolitic/pelletoid, very poorly sorted, bioclastic crinoid stems, brachiopod fragments. Well cemented with cpxln dolomite (10%). Dense.
		C		5.7		Limestone, med brn-gry, cpxln (calcilutite). Medium/finely banded with laminae, dk/med gry, argill, lst, with ?plant debris, bedding generally slightly irregular with patches, lt brn, microgranular, dolomite. Increasing laminae, bf/very lt brn, microx, dolomite towards base.
						Coring Times 14,15,11,13,12 - 13,20,17,10,30-15,17,26,26,16 - 25
						Core #72 2350-2369' Recovered 19.2' (Cut 19')
		C		3.2		Limestone, medium gry-brn, cpxln, slightly dolomitic (10%), with lt gry-brn, microx, dolomite laminae. Argill (20%). Scattered brachiopods.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Two
						Faint medium banding ($\frac{1}{4}$-$\frac{1}{2}$") flat, regular. Dense.
		C		6.7		Limestone, med gry-brn, cpxln (calcilutite), argill (10%). Medium/coarsely banded, generally faint irregular bedding, locally nodular/pseudo ruditic with thin very dk gry laminae, semi-bituminous. Thin very coarsely bioclastic intervals, of crinoids, strophomenid, rynchonellid brachiopods, locally becoming coquinas with lt brn/bf microgranular dolomite matrix. Scattered vugs, ?salt infilled. Open vertical fracture (2354-2357'). Flat, well bedded basal 0.9'.
		C		2.6		Dolomite, shaley, very dk/lt gry, cpxln/microx. Fine/medium banded, finely laminated, argill variable (45% in dk gry, 20% in lt gry). Calcareous in upper 1.1' (20%). Rarely cross bedded.
		C		7.7		Shale, med/dk gry, very dolomitic (40%) with thin interbeds in upper 3.5' of lt gry argill (20%) dolomite. ?Algal matts. Shale massive in basal 4.4'. Poor blocky fissility. Hard.
						Coring Times 38,19,18,17,18 - 15,13,8,18,21 - 21,19,20,23,26 - 21,22,25,26
						Core #73 2369-2377' Recovered 7.3' (Cut 8.0')
		C		0.8		Shale, med gry occasionally dk gry laminae, rarely shaley dolomite, dolomitic (20%). Partially slumped bedding. Blocky, sub-fissile.
		C		5.9		Anhydrite, dk gry, microx, rarely very finely xln, partly very lt gry, very finely/finely xln, with dolomite cement (5%). Fine/coarsely laminated, flat.
		C		0.6		Anhydrite, dk gry, microx, coarsely laminated with very lt gry anhydrite, very fine/finely xln. Occasional streaks med gry-brn, dolomite (10%) microx.
						Coring Times 49,35,33,34,35 - 42,34,42.

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Thre
						2377-2380' Interval drilled. No samples recovered.
						Core #74 2380-2399' Recovered 19' (Cut 19.0')
		C		0.7		Dolomite, med brn occasionally gry, microx/ rarely very finely xln, scattered pin-point/ microvugs, probably salt infilled. Irregularly bedded with and partial replacement by anhydrite (30%), med/dk gry, microx. Dense.
		C	0.7			Dolomite, med/lt brn occasionally greyish, very finely xln/microx, partially algal. Fair pin-point/micro-vuggy porosity. Uneven bedding (?ripple marks), medium/coarsely laminated with several very dk brn-gry laminae, anhydrite (15%).
		C		1.0		Dolomite, med brn/brn-gry, microx/very finely xln, well cemented, dolomite/anhydrite. Flat, well bedded, medium laminated with scattered irregular laminae, dk brn dolomite. Irregular blebs med/dk gry, microx, anhydrite (30%) replacing dolomite. Dense.
		C		1.3		Dolomite, med brn/brn-gry, microx, interlaminated with fine/v.fine xln, dolomite with cpxln,matrix, dense. Anhydrite (15%) with occasional laminae, med/dk gry anhydrite, microx. Flat well bedded, medium/finely laminated (?partially relict calcarenite). Dense.
		C		0.6		Dolomite, lt brn/yellowish, microx, slightly calcareous (10%), argill (5%). Flat, well bedded medium/coarsely laminated with occasional laminae dk gry-brn dolomite. Dense.
		C		6.3		Anhydrite, lt/dk gry, microx, dolomitic (10%). Well bedded, finely laminated. Small fracture, cemented brn cpxln, dolomite.
		C		1.6		Limestone, gry-brn, cpxln/microx, rare fine interbeds, fine calcarenite well cemented cpxln, calcite. Scattered brown selenite blades. Argill (10%). Medium/coarsely laminated, flat with occasional dk brn wavy laminae(ripple marks?).

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Four
		C		1.8		Limestone, lt/med gry, microx/rarely very finely xln, (well cemented, dense), argill (10%), slightly dolomitic (10%). Flat, medium/finely laminated. Dense.
		C		3.4		Limestone, med gry-brn/gry, very fine/fine calcarenite, partly oolitic, well cemented, clear, cpxln, dolomitic cement (5%). Interbanded/interlaminated brn-gry, microx, limestone, dolomitic (10%). Indistinctly coarsely laminated/banded. Argill (10-15%). Dense.
		C		1.6		Limestone, med gry-brn, fine calcarenite with interbeds, med brn, microx, calcareous dolomite (40%). Flat, medium laminated/banded. Argill (5%). Dense.
						Coring Times 36,32,21,24,25 - 33,30,32,37,25 - 32,18,20,15,15 - 18,7,15,15.
						Core # 75. 2399-2419' Recovered 19.5' (Cut 20')
		C		4.2		Limestone, med gry-brn, cpxln (calcilutite), with fine interbeds, microx/very finely xln, limestone, partly calcarenitic with cpxln, dolomite, cement (10%), slightly argill (10%). Numerous blades brown ?selenite. Medium/finely banded occasionally laminated with dk gry laminae. Irregular vertical fracture (basal 1.0') infilled dk gry, slightly bituminous limestone, scattered stylolites upper 2'. Scattered ineffective micro-vugs. Dense.
		C		15.3		Limestone, brn/gry-brn, cpxln (calcilutite), occasional hairline fracture, cemented clear calcite. Slightly irregular bedding, partly nodular, locally vermiform with patches/infilling microx, lt brn/bf, dolomite (10%), occasionally becoming interbedded, finely bioclastic. Scattered brachiopods, gastropods, rare solitary coral. Isolated pin-point, microvuggy porosity, ineffective.
		C		1.[illegible]		Coring Times 20,12,12,13,14 - 11,11,12,12,10 - 11,11,9,11,13 - 10,11,11,15,10.
		C		1.3		

SAMPLES NOT LAGGED

BANFF OIL LTD.

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Five
						Core #76 2419-2438' Recovered 19.6' (Cut 19')
		C		7.6		Limestone, brn/brn-gry, cpxln (calcilutite). Slightly irregular/partly nodular, increasingly vermiform with patches/infilling, minor bioclastic interbeds of microx, lt brn, dolomite (10%). Rare hairline fractures, cemented with clear calcite, isolated brachiopods, solitary corals. Isolated ineffective pin-point/microvug porosity.
		C		3.2		Limestone, med/dk gry/lt brn/gry-brn, mottled, cpxln, with patches/minor interbeds, lt brn/bf, microx, dolomite (20%), very slightly argill (L5%). Irregularly bedded, nodular, part rubbly, vermiform. Isolated solitary corals. Dense.
		C		2.3		Limestone, gry/gry-brn/lt brn, mottled, cpxln, with patches/minor interbeds, microx, lt brn, dolomite (20%). Irregular bedding, nodular/rubbly, partly vermiform. Scattered pin-point vugs. Isolated solitary corals.
		C		6.5		Dolomite, med/lt gry-brn/gry/lt brn, mottled, cpxln/microx, calcareous (20%). Irregular bedding, strongly nodular/rubbly. Rare pin-point vugs, ineffective.
						Coring Times 30,10,10,10,9 - 11,11,11,10,8 - 10,10,7,10,9 - 10,9,10,9.
						Core #77 2438-2458' Recovered 19.7' (Cut 20')
		C		1.5		Dolomite, med/lt gry-brn/gry/lt brn, mottled, cpxln/microx, calcareous (20%). Irregular bedding strongly nodular/rubbly. Rare ineffective pin-point vugs.
		C		18.2		Limestone, med brn/lt gry-brn, occasional streaks dk gry-brn, mottled, cpxln (calcilutite). Rare fine laminae, fine calcarenite, bioclastic with brachiopods. Coarsely banded, partly nodular/rubbly, strongly vermiform with infilling and

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Six
						patches, lt brn-yellowish, microx, dolomite (20%). Rare brachiopod, solitary coral. Traces fluorite. Dense.
						Coring Times 8,8,8,8,7 - 8,8,9,6,11 - 7,7,9,9,7 - 8,8,7,10,10.
						Core #78 2458-2477' Recovered 19.4' (Cut 19')
		C		7.9		Limestone, brn/gry-brn, rarely dk gry-brn, mottled, cpxln, bioclastic (biomicrite), scattered calcite plates/brachiopod fragments. Scattered solitary corals, gastropods. Massive to very coarsely banded with rare dk gry-brn laminae. Vermiform with lt brn-yellowish, microx, dolomite infilling (10%). Dense.
		C		11.5		Limestone, brn/brn-gry, increasingly grey towards base, scattered dk gry-brn laminae, mottled, cpxln (calcilutite), minor fine laminae, fine calcarenite, bioclastic with microgranular, dolomite, matrix, brachiopod fragments, occassionally becoming brachiopod coquinas (strophomenids). Massive to very coarsely banded. Vermiform (decreasing towards base) with infillin lt brn/bf, microx, dolomite (10%), speckled, pelletal. Scattered hairline fractures, cemented clear calcite. Rare solitary corals. Dense.
						Coring Times 13,10,6,11,9 - 8,10,8,10,10 - 10,11,11,12,10 - 10,11,10,10.
						Core #79 2477-2496' Recovered 14' (Cut 19')
		C		12.5		Limestone, gry-brn/lt med-brn, mottled, cpxln (calcilutite) with minor dk gry/gry-brn, microgranular, dolomite (10%), bioclastic, calcareous, brachiopods. Irregular bedding, very slightly vermiform, infilled, lt brn/bf, microgranular, dolomite (5%). Dense.
		C		6.5		Limestone, gry/bry-brn, cpxln/microx, bioclastic (biomicrite) with occasional fine (1"), interbed fine/v.fine calcarenite, coarsely bioclastic with

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Seven
						brachiopods (strophomenids) with microx matrix. Thin wavy laminae dk gry/gry microgranular dolomite (10%), slightly pelletal. Irregularly bedded, rarely nodular. Scattered ineffective pin-point porosity and isolated fine vugs. Dense.
						Coring Times 16,14,12,15,14 - 14,13,10,12,13 - 9,11,13,12,13 - 15,15,13,13.
						Core #80 2496-2516' Recovered 20' (Cut 20')
		C		3.7		Limestone, med gry/gry-brn, cpxln/microx, with occasional dk gry argillaceous laminae. Minor fine partings fine/v.fine calcarenite, bioclastic with numerous brachiopods. Argill (20%). Massive/indistinctly coarsely banded. Dense.
		C		1.7		Limestone, gry/gry-brn, cpxln/microx, argill (15-20%). Faint fine/medium laminations with occasional laminae, fine/v.fine calcarenite (L10%), bioclastic, coral, crinoid fragments with numerous brachiopods (rarely recrystallised in calcarenite). Dense.
		C		3.1		Limestone, med gry rarely brnsh, cpxln/microx with scattered coarse calcite plates, bioclastic, primarily brachiopod fragments, occasionally coral, crinoid fragments, slightly dolomitic (10%). Variably clean to slightly argill (10%). Massive to indistinctly coarsely banded.
		C		0.8		Limestone, med gry rarely brnsh, cpxln/microx, argill (15%). Indistinctly coarsely laminated. Thin (2") bed, fine calcarenite, bioclastic (brachiopod fragments) (2" from base). Dense.
		C		1.0		Limestone, med gry/gry-brn, cpxln/microx, with scattered coarse calcite plates, slightly bioclastic with scattered fragments, crinoids, corals, brachiopods - rare solitary corals. Indistinctly bedded to slightly nodular. Dense.
		C		0.7		Limestone, med gry, rarely brnsh, cpxln, occa-

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. Seventy-Eigh
						sionally microx, dolomitic (10%), siliceous (25%). Fine/coarsely laminated. Dense.	
		C		3.3		Limestone, med gry-brn/occasionally gry, cpxln/microx, slightly bioclastic with fine irregular partings, fine calcarenite (5%), bioclastic. Argill (10%), very slightly siliceous (5%). Scattered solitary corals, brachiopods, gastropods. Indistinctly bedded/massive. Isolated ineffective pin-point porosity.	
		C		5.4		Limestone, med gry-brn, microx/cpxln, bioclastic, coral/crinoid/brachiopods/gastropods, with solitary corals/brachiopods on partings. Occasional fine partings, fine calcarenite (L5%). Argill (5%), siliceous (15%). Indistinct bedding/massive. Scattered ineffective pin-point porosity/fine vugs, partially infilled, bf/lt brn, very finely xln, dolomite/coarse anhydrite crystals.	
						Coring Times 8,19,18,17,13 - 10,12,10,15,10 - 12,12,14,11,12 - 12,16,12,13,12.	
						Core #81 2516-2536' Recovered 19.7' (Cut 20')	
		C		12.4		Limestone, med brn-gry/med gry, cpxln/microx with fine partings of very fine/fine calcarenite (L10%), bioclastic, increasing partings towards base. Numerous organic fragments throughout (brachiopods, corals, crinoids) with numerous brachiopods on partings, gastropods, scattered solitary corals. Isolated ineffective pin-point porosity, primarily in calcarenite partings, rare solution vugs, partially infilled, bf/lt brn dolomite, with traces anhydrite. Dolomitic (10%). Variable argill content (10-15%), partially argill matrix in calcarenite. Massive to indistinctly bedded, rarely slightly nodular.	
		C		7.3		Limestone, med brn-gry/gry, slightly brnsh, mottled, microx/cpxln, bioclastic, with numerous fragments, brachiopods, corals, crinoids, solitary corals, occasional gastropods scattered	

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Seventy-Nine
						throughout. Occasional selenite blade. Slightly siliceous (5-15%), variable argill content (10-15%). Massive/indistinct bedding, partially nodular, with patches/partings, very fine/fine calcarenite (10-15%), bioclastic, dolomitic (10-15%), variably with fine brachiopod coquinas. Scattered ineffective pin-point porosity. Slight hiatus with overlying limestone.
						Coring Times 23,15,14,15,18 - 20,13,18,16,16 - 16,18,13,14,15 - 16,13,15,16,9.
						Core #82 2536-2556' Recovered 19.7' (Cut 20')
		C		1.8		Limestone, med brn-gry/brn/rarely dk brn, partly mottled, cpxln/microx, bioclastic, with brachiopods scattered throughout, occasionally coarse calcite plate. Fine/coarsely laminated, rarely nodular with patches and concentrations, lt brn, microgranular dolomite, slightly siliceous (5%), very slightly argill (5%). Isolated, ineffective pin-point porosity.
		C		17.9		Limestone, med/lt brn/gry-brn, cpxln/microx, organic debris (5% occasionally 10%) (brachiopods, corals, crinoids), scattered solitary corals, rare branching corals, gastropods, locally numerous brachiopods, dolomitic (10%). Massive to irregular/nodular texture with wavy discontinuous, very slightly bituminous, dk brn gry laminae, with patches, partings, lt yellowish brn, microgranular dolomite. Slightly siliceous (5%), argill (L2%), rare traces anhydrite. Ineffective pin-point/fine vug porosity, rarely poor intergranular porosity in isolated laminae/partings. Thin (0-2') intraformational breccia at top. Nodularity decreasing basal (3.0'). Dense.
						Coring Times 17,18,19,11,15 - 16,13,15,14,14 - 15,12,12,12,12 - 19,14,14,15,10.
						Core #83 2556-2575' Recovered 19.6' (Cut 19')
		C		1.1		Limestone, med brn/brn-gry - slightly mottled

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Eighty
						with very slight bituminous, dk gry patches, cpxln/microx, organic debris, dolomitic (10%), siliceous (10%), argill (5%). Well bedded - medium/coarsely laminated, rarely irregular. Dense.
		C		8.9		Limestone, gry-brn/brn-gry, partially mottled with dk gry-brn patches, cpxln/microx, organic debris with numerous calcite plates (fragments crinoids, corals, brachiopods), scattered solitary corals, numerous/fine coquinas, brachiopods, rare gastropods. Dolomitic (10-15%), variably argill (10-15%), siliceous (15-20%). Massive/indistinct bedding, slightly irregular/nodular with dk gry, slightly bituminous wavy laminae, fine interbeds/partings, very fine/fine, bioclastic, calcarenite, patches/intraclasts, lt brn, microgranular dolomite, ineffective pin-point locally very poor intergranular porosity in calcarenite.
		C		5.1		Limestone, med gry-brn/brn-gry, partly mottled with very dk gry, slightly bituminous patches, microx/cpxln, dolomitic (15-20%). Indistinctly coarsely banded, increasingly irregular/nodular with patches/concentrations, lt brn, microgranular, finely bioclastic, dolomite. Thin interbands, very fine/fine bioclastic, calcarenite (20%), well cemented, clear calcite/dolomite. Scattered solitary corals, numerous brachiopods, occasionally fine coquinas. Variably argill (L5%-15%), siliceous (15-20%). Generally dense with isolated ineffective pin-point/very poor intergranular porosity in calcarenite beds.
		C		4.5		Limestone, med gry/gry-brn, microx/very finely calcarenite, strongly bioclastic (30-40%), with fine interbeds, brachiopod/organic coquina (0.7/0.3 coquina/2.1/1.3 coquina). (Total organic 40%), argill (L5%, locally 10%), siliceous (20%), dolomitic (5-15%). Indistinctly/coarsely banded, partially slightly irregular/nodular, with occasional thin, very dk gry and lt brn dolomite laminae. Dense.
						Coring Times 34,12,12,17,15 - 15,13,14,12,16 - 13,14,15,23,26 - 13,22,18,20.

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						Sheet No. Eighty-One
						Core #84 2575-2594' Recovered 19.6' (Cut 19')
		C		7.7		Limestone, med gry/gry-brn (becoming brn-gry towards base), partly mottled, microx/very fine, rarely fine calcarenite (30%), randomly intermixed, decreasing to cpxln/microx towards base, dolomitic (5%), much organic debris, with locally fine brachiopod coquinas, fairly numerous solitary corals. Siliceous (20-25%), argill (L5%, locally 10%). Indistinct bedding/massive, partially irregular/nodular. Dense.
		C		2.6		Limestone, med brn-gry, cpxln, argill (15-20%), rare scattered, chert/tripolitic chert nodules, slightly dolomitic (5%). Irregular/partly nodular bedding with patches/laminae, dk gry-brn, slightly bituminous, occasionally lt brn, microgranular limestone. Slightly vermiform with lt brn microx, dolomite infilling. Patches very fine bioclastic calcarenite. Dense.
		C		0.6		Limestone, lt/med brn-gry with very slight mottling with med gry. Fine/very fine calcarenite, locally recrystallised in basal (0.3'), slightly dolomitic (5%), bioclastic to partial coquina (brachiopod). Dense upper o.3', fair vuggy porosity in basal. 0.3' salt impregnated, with probable porosity plugged.
		C		2.0'		Limestone, lt/med gry-brn, cpxln, argill (2%), Coarsely banded, slightly irregular with fine bands, bf/lt gry tripolitic chert (10%). Dense.
		C		6.7		Limestone, med brn-gry/gry-brn, partly mottled, dk gry-brn, cpxln/microx with fine interbands ($\frac{1}{2}$"/1"), very fine/fine, calcarenite (20%), bioclastic, well cemented (10%) with clear calcite. Coarsely banded, locally irregular/nodular, with fine dk gry wavy laminae (?algal). Vermiform (in calcarenite) with lt brn microx, dolomite (10%). Slightly siliceous (10%), argill (15-20%) in calcilutites. Rare tripolitic, bf/very lt gry chert nodules, occasionally

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Two
						as very fine interbeds (5%). Dense.
						Coring Times 25,25,15,10,20 - 18,45,9,12,11 - 14,12,14,17,7 - 25,13,21,21.
						Core #85 2594-2514' Recovered 19.6' (Cut 19')
		C		3.9		Limestone, med gry/gry-brn, cpxln, argill (15-20%), slightly siliceous (10%), coarse pellets (5%) with mottles and fine interbeds, very fine/fine calcarenite (10%), very slightly dolomitic (5%), partially cemented clear calcite (10%) with fine vuggy/pin-point porosity (6-8%), probably salt impregnated. Indistinctly coarsely banded, locally slightly irregular/nodular with dk gry laminae (?algal). Very slightly vermiform, with lt brn microx, dolomite (10%). Dense.
		C		4.9		Limestone, med gry, lt gry, mottled, cpxln/microx, organic debris (10%), dolomitic (30%), argill (25%). Massive. Dense.
		C		2.7		Dolomite, lt/med gry-brn, cpxln/microgranular. Argill (5%). Anhydritic (10-15%) primarily as blebs and vug filling. Scattered microvug porosity (probably salt filled), locally poorly intergranular when microgranular. Massive with scattered, short wavy dk gry bituminous laminae increasing towards base. Sharp contact with overlying limestone.
		C		0.8		Dolomite, lt/med gry/rarely gry-brn, cpxln, argill (5-10%), fine partings, fine/v.f dolocarenite (10%). Very coarsely banded with occasional wavy, very fine dk gry bituminous laminae. Angular fine vugs/partially dissolved salt casts, scattered ineffective poor intergranular porosity.
		C		1.5		Dolomite, lt brn-gry, cpxln, argill (5-10%). Upper 0.3', solution breccia with infilling, dk gry, argill dolomite - 0.6', dense coarsely laminated with fine dk gry laminae - remainder

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings - O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Three
						(0.6'), very fine/finely laminated with numerous dk gry laminae, cross laminated, slumped/contorted.
		C		0.4		Dolomite, lt brn-gry, mottled dk gry, fine dolocarenite, slightly bioclastic (5%). Fair interxln/fine vug porosity, salt impregnated, ineffective.
		C		1.5		Dolomite, gry-brn, slightly mottled, dk gry, cpxln, argill (5-10%). Fine to faintly laminated partly cross laminated, solution brecciated. Generally dense with fine solution vugs, salt impregnated.
		C		0.5		Dolomite, med gry-brn, slightly mottled, lt gry with patches/lenses, fine/very fine dolocarenite, argill (10%). Very fine/medium laminated, partly cross laminated/slumped. Scattered angular fine vugs, salt impregnated.
		C		0.6		Dolomite, med-gry/mottled, lt gry-brn, cpxln, argill (15-20%). Poorly bedded. Scattered ineffective, fine solution vugs.
		C		0.6		Dolomite, med gry, slightly brnsh, microx, argill (5%). Well bedded, indistinctly coarsely banded. Fair/poor solution micro-vugs, occasionally concentrated pin-point, salt impregnated.
		C		1.2		Dolomite, lt brn-gry, slightly mottled, lt gry-brn, occasionally dk gry laminae/fine partings, cpxln, occasionally microx, argill (5-10%), isolated anhydrite bleb (dk gry, finely xln). Indistinctly bedded becoming medium laminated in basal 0.3'. Isolated, ineffective fine solution vugs, salt impregnated.
						Coring Times 13,13,15,15,15 - 18,14,16,21,11 - 9,9,12,14,16 - 8,9,13,11,15.
						Core #86 2614-2634' Recovered 19.7' (Cut 20')
		C		3.3		Dolomite, lt/med, occasionally dk gry, partly

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Four
						mottled gry-brn. Cpxln, partly microx, rarely locally very fine/fine dolocarenite. Fine/medium laminated, locally (when arenitic) indistinct. Isolated ineffective solution/contraction vugs, salt impregnated. Rare small white/gry tripolitic chert nodules.
		C		4.1		Dolomite, lt/med brn, becoming med/dk brn mottled, minor dk gry laminae at base. Microx. Medium/coarsely banded to coarsely laminated (with dk gry laminae). Locally fine concentrations of blk very bituminous (oil shale) shale laminae/lenses ($\frac{1}{4}$"). Scattered small blebs, med gry anhydrite, microx (5%). Isolated to locally concentrated salt casts (micro-vugs). Argill (10%). Dense.
		C		3.0		Dolomite, lt/med gry, partly mottled, dk gry, cpxln, argill (25-15%) with fine interbed 0.6' (0.8' from top), gry/grnsh gry, argill (50%), slightly brecciated, infilled gry dolomite. Well bedded, medium/coarsely banded, locally coarsely laminated. Dense.
		C		5.0		Dolomite, med brn/brn-gry, partly mottled with fine wavy laminae, very dk gry occasionally blk, bituminous shale (dolomitic), occasionally becoming thin layers (1/8"-$\frac{1}{4}$"), soft, oily. Well bedded, interbanded to fine/medium laminated rarely slumped (?algal). Interbanded with dk brn-gry dolomite, cpxln, numerous salt casts (fine vugs), 10% salt. 0.6' (salt casts), 0.6' (laminated), 0.5' (salt casts), 0.6' (laminated) 0.3'(salt casts) 0.5'(laminated) 0.1'(salt casts) 0.8'(laminated) 0.2' partly laminated, slumped with very coarse salt casts. (0.7' laminated).
		C		2.8		Dolomite, med brn-gry, cpxln, with large salt casts (10%, locally 20%). Massive, Dense.
		C		1.5		Dolomite, lt brn/brn-gry/gry, mottled, cpxln, scattered salt cast (L5%). Argill (10%), siliceous (10%). Generally massive with paper-thin laminae, fine (1/8") layers, variably

SAMPLES NOT LAGGED

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Five
						bituminous, dk gry shale. Dense.
						Coring Times 21,10,20,10,13 - 13,9,13,13,16 - 10,15,10,9,9 - 5,8,6,9,5.
						Core #87 2634-2653' Recovered 19.6' (Cut 19')
		C		3.5		Dolomite, med brn/gry-brn/gry, partly mottled. Cpxln. Massive, to well bedded, medium/coarsely laminated with paper-thin dk gry/blk, variably bituminous shale laminae. Rare fine salt casts (2%). Dense.
		C		5.0		Dolomite, lt/med gry, mottled, dk gry with fine partings, grnsh-gry, argill (25%), dolomite. Cpxln, argill (10%). Generally well bedded, locally cross-bedded, slumped.
		C		0.7		Dolomite, lt/med gry, part mottled, dk gry. Cpxln. Anhydrite (30%), med gry, fine med xln, interbedded/secondary replacement. Dense.
		C		0.6		Dolomite, lt/med gry, cpxln, argill (10-15%), very slightly anhydrite (5%). Fine/medium laminated. Dense.
		C		1.0		Dolomite, lt/med gry, cpxln, argill (10%). Anhydrite (30%), med gry, finely xln. Laminated/strongly slumped (anhydrite intimately admixed with dolomite - deposition almost simultaneous). Dense.
		C		1.0		Dolomite, lt/med gry sl brnsh, cpxln, argill (10-15%) with occasional blk, variably bituminous shale laminae. Rare fine salt casts (2%). Finely laminated. Dense.
		C		0.6		Dolomite, med brn/brn-gry, cpxln, argill (5%), rare salt casts of fine vugs (2%). Coarsely laminated. Dense.
		C		1.2		Dolomite, med brn, cpxln. Anhydrite (45%), brn-gry/med gry, finely xln, interbedded to partly secondary. Dense.
		C		0.6		Dolomite, lt/med brn, cpxln with fine laminae,

SAMPLES NOT TAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Six
						variably bituminous black shale. Rare salt casts (L2%). Medium/finely laminated. Dense.
		C		2.0		Dolomite, gry partly mottled dk/lt gry, cpxln, argill (30-50%), interlaminated, dk gry dolomitic shale. Large anhydrite blebs (10%), gry. Medium laminated. Vertical fracture. Sharp irregular contact with overlying dolomite. Dense.
		C		3.4		Dolomite, med gry, microx, argill (40-5)%). Faintly laminated with dk gry dolomitic shale. Vertical fracture. Dense.
						Coring Times 19,7,9,10,10 - 10,12,13,25,17 - 19,11,15,16,14 - 16,21,12,19.
						Core #88 2653-2669' Recovered 16.1' (Cut 16')
		C		5.3		Dolomite/dolomitic shale, med gry, patchily speckled dk gry, becoming lighter towards base as dolomite content increases, argill (60/30%). Massive to faintly laminated with "edgewise conglomerate" at 2656-8'.
		C		0.3		Anhydrite, med/dk gry, microx/very finely xln, with fine laminae, greenish gry dolomite (10%), argill (30%).
		C		4.2		Dolomite, gry/med gry, cpxln/microx, argill (40%). Scattered large anhydrite blebs (5%), med gry, very finely xln. Massive to faintly laminated.
		C		0.2		Anhydrite, gry/med gry, very finely xln, with rare dolomite inclusions (5%), gry, argill (40%).
		C		4.9		Dolomite, gry/med gry, cpxln/microx, argill (30%). Scattered large anhydrite blebs (10%), med/dk gry, very finely xln. Massive to faintly laminated.
		C		1.1		Dolomite, med brn-gry, microx, argill (15%), very slightly anhydritic (5%). Fine salt casts (2%). Medium/coarsely laminated. Dense.
						Coring Times 17,20,16,16,11 - 11,16,22,13,15 - 10,10,17,21,10 - 12

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C / Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Seven
						Tally (Depth) Correction 2670'
						Core #89 2670-2689' Recovered 19.1' (Cut 19')
		C		2.5		Dolomite, med brn-gry, with scattered dk gry specks, microx/cpxln, argill (15%), slightly anhydritic (5%), scattered fine salt casts (2%). Faintly laminated, with occasional very fine, blk, variably bituminous shale laminae.
		C		0.6		Dolomite, med brn-gry, scattered dk gry specks, argill (15%), slightly anhydritic (5%). Very coarsely laminated with numerous very fine, blk, variably bituminous laminae, locally wavy, discontinuous.
		C		0.6		Dolomite, med brn-gry, microx, argill (15%). Faintly laminated. Dense.
		C		2.3		Dolomite, lt brn/lt gry-brn/dk gry, mottled, microx/cpxln, argill (15%), scattered fine salt casts (2%). Coarsely laminated, locally with wavy, discontinuous very fine blk bituminous laminae.
		C		0.3		Anhydrite, dk gry, microx/very finely xln. Bedded.
		C		8.0		Dolomite, lt gry/lt gry-brn/brn, mottled dk gry, cpxln, rarely microx, slightly siliceous (5%), scattered gry chert nodules (1"-2") (2%). Rare fine salt casts (L2%). Well bedded, coarsely banded/medium laminated. Dense.
		C		0.2		Dolomite, brn-gry, microx, argill (15-20%), solution/contraction brecciated with infilling, blk shale laminae. Medium/large salt casts (5%). Dense.
		C		4.6		Limestone, brn-gry, streaked/partially mottled very dk gry, cpxln, argill (10%), strongly mottled with lst (50%), lt brn/brn, microx with small lenses, very finely calcarenite, dolomitic (5-10%), argill (20%), slightly verni-

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Eighty-Eight
						form. Irregular/nodular, massive. Rare anhydrite blebs, medium gry (2%). Scattered chert nodules, medium gry (2%). Dense.
						Coring Times 12,17,12,11,11 - 12,12,16,14,13- 9,11,16,14,12 - 5,15,13,9.
						Core #90 2689-2709' Recovered 19.5' (Cut 20')
		C		0.1		Limestone, as above.
		C		9.4		Limestone, gry-brn with dk streaks, cpxln, mottled, lt brn, microx, limestone (slightly dolomitic (10%). Argill (L5%). Rare small anhydrite blebs (2%). Scattered tripolitic chert nodules (1"), very lt gry/bf (5%). Rare coral fragments with very rare solitary corals. Massive, vermiform throughout, strongly vermiform upper 0.9'. Dense with isolated ineffective pin-point porosity.
		C		5.4		Limestone, brn/brn-gry, mottled, cpxln/rarely microx, argill (5%). Scattered tripolitic chert nodules (5%), lt gry/bf. Bioclastic (5%), brachiopod fragments, coral debris. Very rare solitary corals, numerous small calcite plates. Massive, slightly vermiform. Dense.
		C		4.6		Limestone, brn/brn-gry, mottled, cpxln/rarely microx. Scattered chert nodules (5%), very lt gr/bf. Scattered fine organic debris (L5%). Argill (5%). Massive slightly vermiform. Occasional clusters brn selenite blades basal 1.5'. Dense.
						Coring Times 10,15,7,10,8 - 10,11,10,10,10 - 10,11,13,10,12 - 9,12,10,10,10.
						Core #91 2709-2729' Recovered 19.7' (Cut 20')
		C		9.9		Limestone, brn/brn-gry, cpxln/microx, mottled, lt brn, microx, dolomite (15%). Numerous brn calcite plates. Scattered very lt gry/off-

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From	To	Core C. Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION
						white chert nodules (5%). Siliceous (10%). Rare ?salt casts (1%). Massive, variably vermiform. Dense.
		C		4.9		Limestone, brn/brn-gry, cpxln/microx, mottled lt brn microx, dolomite (5%). Very lt gry/off white chert nodules (5%). Siliceous (20%). Massive, rarely slightly vermiform. Dense.
		C		2.5		Limestone, brn/brn-gry, cpxln/microx, mottled, lt brn, microx, dolomite (15%). Numerous calcite plates, scattered coral fragments, occasional small brachiopod. Siliceous (20%), lt gry/off-white chert nodules (5%). Massive, strongly vermiform. Dense.
		C		2.4		Limestone, brn/brn-gry, slightly mottled, lt brn, cpxln/microx. Numerous calcite plates. Rare lt gry/off-white chert nodules. (L2%). Siliceous (20%). Rare, very small anhydrite blebs (2%). Massive, very slightly vermiform.
		C				
		C				
						Coring Times 7,11,9,8,8 - 10,8,9,10,11 - 9,12,10,12,13 - 10,26,7,13,11.
						Core #92 2729-2748' Recovered 19.5' (Cut 19')
		C		1.2		Limestone, brn/brn-gry mottled, cpxln/microx. Rare bf/white chert nodules (2%), siliceous (10%). Trace ineffective pin-point porosity. Massive, very slightly vermiform. Trace coarse ?magnetite crystals.
		C		3.9		Limestone, brn/brn-gry mottled, cpxln/microx with calcite plates, rare brachiopod fragment, interbanded (o.1' - 0.2' beds) with very fine/fine calcarenite (20%), bioclastic with crinoid/coral/brachiopod fragments, well cemented clear calcite (5%). Rare solitary corals. Trace small anhydrite blebs (L2%). Very irregular chert nodules (20%), very lt gry/off-white, partly tripolitic, siliceous (5%). Isolated fine vugs in chert, infilled salt. Very slightly vermiform. Dense.
		C				

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Ninety
		C		4.5		Limestone, brn/brn-gry, mottled, with dk gry streaks, cpxln/microx, with organic (primarily crinoid) debris throughout (10%). Lt gry/bf, chert nodules (5%). Siliceous (L5%). Dense.
		C	0.9			Limestone, brn/lt brn, microx/very fine, calcarenitic, bioclastic (20%), crinoid/brachiopod fragments. Trace gry chert (2%) with very fine vugs, infilled salt. Poor intergranular porosity. Indistinctly stratified.
		C		8.0		Limestone, brn/brn gry, mottled, cpxln/microx, bioclastic (10%), crinoid/brachiopod fragments. Rare solitary coral. Very irregular gry chert nodules (10%). Massive, very slightly vermiform. Dense.
						Coring Times 38,15,13,8,10 - 13,10,10,12,10 - 10,12,8,12,11 - 12,10,13,10.
						Core #93 2748-2768' Recovered 19.5' (Cut 20')
		C		19.5		Limestone, brn/brn-gry/lt gry-brn, mottled, cpxln/microx with numerous calcite plates, with indistinct interbeds very fine/fine calcarenite (20%), much organic debris, frequently coarse, primarily brachiopods with crinoids/corals. Well cemented clear dolomite (5-15%), with locally very poor intergranular porosity. Irregular grey chert nodules (10% upper 7', decreasing to 2%). Siliceous (5-10%). Massive to faintly banded.
						Coring Times 11,16,13,10,12 - 15,13,14,12,13 - 9,13,13,13,13 - 14,12,12,14,20
						Core #94 2768-2777' Recovered 0' (Cut 9')
						No recovery - bit, catcher and reamer shell twisted off.
						Coring Times 23,16,16,23,22 - 23,21,21.

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From	To	Core C/D Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Ninety-One
						Core #95 2777-2785' Recovered 7.7' (Cut 8')
		C		7.0		Limestone, gry-brn/brn, cpxln/micros, numerous calcite plates/organic debris (10%), lenses/ minor interbeds, very fine/fine calcarenite (20%), strongly bioclastic (10-20%) with crinoid/ coral/brachiopods, occasionally gastropod; cemented, clear dolomite (5-15%), patchily microgranular with very poor intergranular porosity. Siliceous (5-10%). Massive to indistinctly banded. Fine pyrite patches.
		C		0.7		Limestone, gry-brn, yellowish, cpxln/microx, bioclastic (10%). Banded. Dense.
						Coring Times 35,68,58,68,55 - 53,143,155
						Core #96 2785-2800' Recovered 15.3' (Cut 15')
		C		2.5		Limestone, brn-gry/brn-yellowish, cpxln/microx, rarely dk gry-brn, siliceous (20%), scattered calcite plates/organic debris (10%), microx, grading very fine, calcarenite (10%), bioclastic (10-20%), partly microgranular with ineffective pin-point porosity. Massive to indistinctly banded.
		C		12.8		Limestone, gry-brn/brn, microx/cpxln, patches/ lenses, very fine/finely calcarenite (10%), bioclastic (5-10%) with fragments brachiopods/ crinoids, gastropods. Argill (5%). Rare gry anhydrite bleb (2%). Massive becoming banded in basal 4.0', occasionally irregular/pseudo-nodular with wavy discontinuous dk gry laminae. Traces fine pyrite. Dense.
						Coring Times 40,54,42,42,44 - 35,42,36,41,38 - 53,132,129,154,108.

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From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Ninety-Two
						Core #97 2800-2819' Recovered 19' (Cut 19')
		C		19.0		Limestone, gry-brn, yellowish/brn-gry, microx/cpxln with calcite plates/organic debris (5%), slightly siliceous (10%), patches/lenses, very fine/finely calcarenite (5%), lt brn with organic debris (10%). Massive to slightly irregular. Dense. Coring Times 30,30,31,34,27 - 27,35,35,33,44 - 28,36,50,52,37 - 64,27,120,100.
						Core #98 2819-2838' Recovered 19.5' (Cut 19')
		C		19.5		Limestone, gry-brn, yellowish/brn, microx/cpxln, with scattered calcite plates, organic debris. Patches/lenses, brn, very fine/finely calcarenite (10%), with organic debris (10%). Rare large gastropod/brachiopod. Slightly siliceous (5%). Massive to partially banded/slightly irregular. Dense. Fine pyrite patches. Coring Times 27,23,30,24,41 - 35,55,43,35,50 - 38,45,60,117,104 - 37,34,56,50
						Core #99 2838-2857' Recovered 18.5' (Cut 19')
		C		18.5		Limestone, gry-brn, yellowish/lt brn, mottled, microx/cpxln with lenses, dk gry-brn, cpxln, siliceous (20%). Scattered calcite plates/organic debris. Patches/lenses, very fine/finely calcarenite (10%), locally microgranular, scattered organic debris, ineffective pin-point porosity. Argill (5-10%). Massive to partially irregular/slightly nodular. Sharp colour contact at 2848', no change above/below. Dense. Coring Times 35,25,16,20,22 - 30,33,38,59,17 - 21,44,40,22,33 - 35,41,31,29

SAMPLES NOT LAGGED

FORM NO. 152

From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	GEOLOGICAL SAMPLE DESCRIPTION — Sheet No. Ninety-Three
						Core #100 2853-2877' Recovered 19.5' (Cut 19')
		C		19.5		Limestone, gry-brn/sparsely yellowish gry-brn/ rarely dk gry, mottled, cpxln, rarely microx, scattered calcite plates/organic debris (crinoid, brachiopod). Patches/lenses very fine/finely calcarenite (15%), bioclastic (5-10%), generally dense with local ineffective pin-point/microvug porosity. Scattered small anhydrite blebs (L2%). Rare very fine ?salt casts. Argill (5%). Massive to slightly irregular. Dense.
						Coring Times 50,27,24,40,18 - 33,27,27,28,39-29,30,25,48,84 - 37,33,58,27
						Core #101 2877-2880' Recovered 2-8' (Cut 3')
		C		2.8		Limestone, gry-brn/sparsely yellowish, cpxln/ microx, scattered fine organic debris. Rare lenses/patches very fine calcarenite, bioclastic (10%). Argill (5%). Massive to slightly irregular. Dense.
						Coring Times 50,33,20
						N.B. Core #101 was cut after logging to aid recovery of 'fish'.

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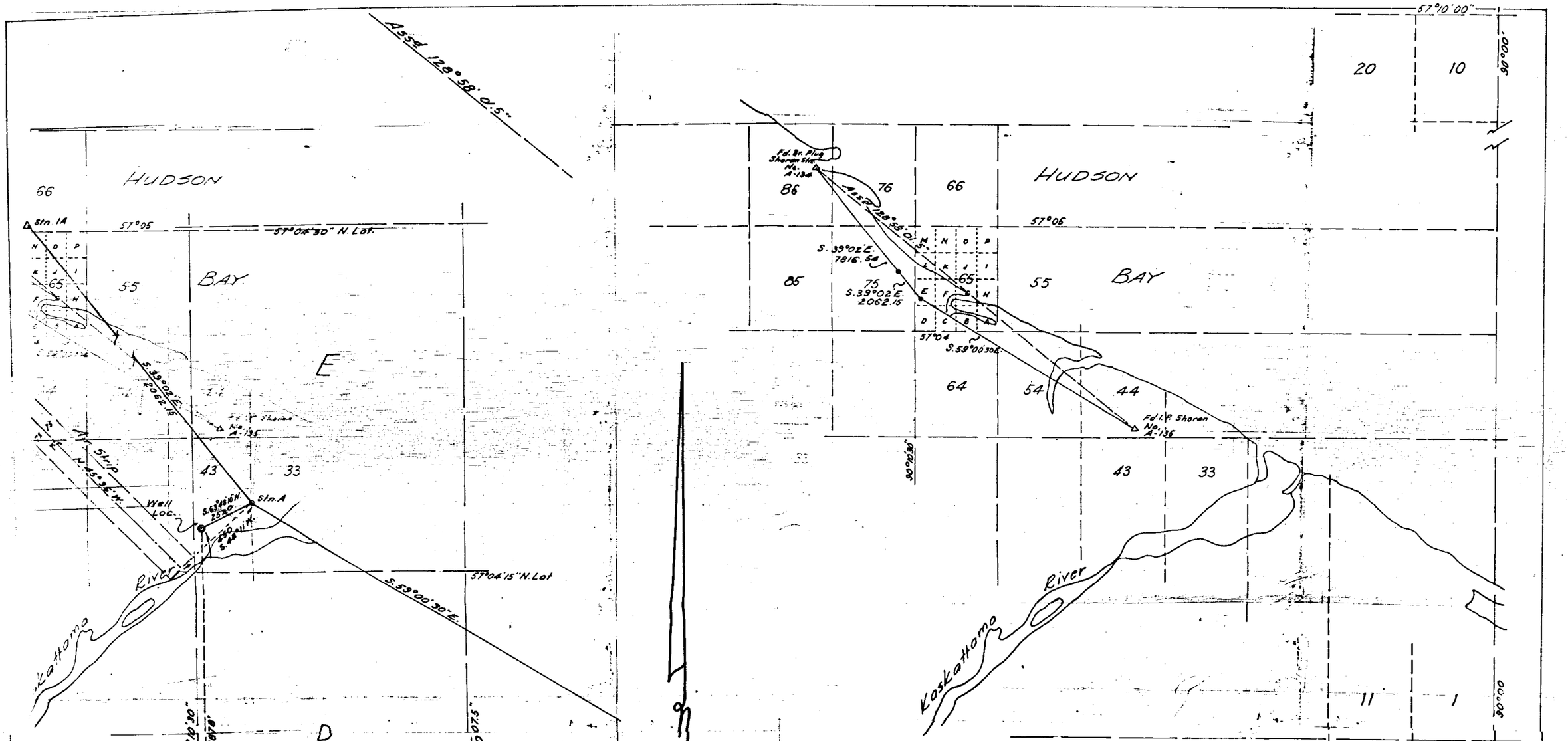

SOGEPET AQUIT KASKATTAMA PROV. #1

S.W. Cor. Sec. 65 Grid Area 57°10' – 90°00'

Unsurveyed Territory - Manitoba

Well is located 32'E. & 1878'N. of S.W. cor. Sec. 65 - 57°10' - 90°00' Grid Area
Well located at Lat. 57°04'18.487" Long. 90°10'29.408"

Elevation: 15.8 Ground
29.5 K.B.
Datum: High tide mark on shore of bay 13.3 ft.

I certify that the survey represented by this plan
Is correct to the best of my knowledge and was
completed on the 28th day of September 1966

G. J. Gedamowsky
Manitoba Land Surveyor

MIDWEST SURVEYS

BANFF OIL LTD.

C448-66

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - BANFF OIL LTD.
Well - SOGEPET AQUIT KASKATTAMA PROV NO. 1
Field - WILDCAT, MANITOBA

Date Report - AUGUST 21,1967
D. Fluid - WATER BASE
Analysis - CONVENTIONAL

Page - 1 of 2
File - CNP-4-3806
Analysts - JH MM MA

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY MILLIDARCYS	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VISUAL EXAMINATION
CORE 102	2880' - 2886' (Rec. 5.8') (2 Boxes)								
-	2880.0-2885.8	5.8	-0.1	-	-0.1	-	-0.1	-0.1	Dense
-	2885.8-2886.0	0.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	Lost core
CORE 103	2886' - 2900' (Rec. 13.1') (3 Boxes)								
-	2886.0-2899.1	13.1	-0.1	-	-0.1	-	-0.1	-0.1	Dense
-	2899.1-2900.0	0.9	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	Lost core
CORE 104	2900' - 2930' (Rec. 27.5') (7 Boxes)								
-	2900.0-2902.8	2.8	-0.1	-	-0.1	-	-0.1	-0.1	Dense
1	2902.8-2903.0	0.2	-0.1	-	4.6	0.92	Trace	80.6	Fine sand, limy
-	2903.0-2906.3	3.3	-0.1	-	-0.1	-	-0.1	-0.1	Shale
2	2906.3-2906.6	0.3	0.2	0.06	17.7	5.31	Trace	89.3	Fine sand, shaly
-	2906.6-2906.7	0.1	-0.1	-	-0.1	-	-0.1	-0.1	Shale
3	2906.7-2907.5	0.8	15.	12.0	22.1	17.68	3.2	76.9	Fine sand
4	2907.5-2908.1	0.6	0.5	0.30	18.8	11.28	Trace	89.2	Fine sand, shale breaks
5	2908.1-2908.8	0.7	0.4	0.28	17.4	12.18	0.0	88.9	Fine sand, silty, shale breaks
-	2908.8-2909.0	0.2	-1.0	-1.0	-1.0	-	-1.0	-1.0	Unconsolidated sand
6	2909.0-2909.8	0.8	13.	10.4	6.8	5.44	0.0	66.3	Fine sand
7	2909.8-2910.3	0.5	229.	114.5	16.1	8.05	0.0	82.0	Fine sand
8	2910.3-2911.3	1.0	3.5	3.50	27.3	27.30	0.0	84.7	Fine sand, shaly
9	2911.3-2911.8	0.5	2.0	1.00	29.5	14.75	0.0	90.9	Fine sand

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY MILLIDARCYS	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	RESIDUAL SATURATION OIL % PORE	RESIDUAL SATURATION TOTAL WATER % PORE	VISUAL EXAMINATION
CORE 104 CONTINUED									
10	2911.8-2912.5	0.7	0.5	0.35	29.2	20.44	0.0	93.1	Fine sand,shaly
11	2912.5-2913.3	0.8	0.3	0.24	19.1	15.28	0.0	92.6	Fine sand,limy
12	2913.3-2913.9	0.6	0.6	0.36	22.7	13.62	0.0	91.3	Fine sand,limy,shaly
-	2913.9-2924.5	10.6	-0.1	-	-0.1	-	-0.1	-0.1	Dense
13	2924.5-2925.2	0.7	3.8	2.66	20.5	14.35	0.0	83.9	Fine sand
-	2925.2-2927.1	1.9	-0.1	-	-0.1	-	-0.1	-0.1	Dense
14	2927.1-2927.5	0.4	1.2	0.48	18.0	7.20	0.0	82.2	Fine sand
-	2927.5-2930.0	2.5	-1.0	-1.0	-1.0	-	-1.0	-1.0	Lost core
CORE 105	2930' - 2933'	(Rec. 2.3')	(1 Box)						
-	2930.0-2932.3	2.3	-0.1	-	0.1	-	-0.1	-0.1	Granite
-	2932.3-2933.0	0.7	-1.0	-1.0	-1.0	-	-1.0	-1.0	Lost core
CORE 106	2933' - 2934'	(Rec. 1.0')	(1 Box)						
-	2933.0-2933.3	0.3	-0.1	-	-0.1	-	-0.1	-0.1	Granite
-	2933.3-2934.0	0.7	-1.0	-1.0	-1.0	-	-1.0	-1.0	Lost core
CORE 107	2934' - 2941'	(Rec. 6.5')	(2 Boxes)						
-	2934.0-2940.5	6.5	-0.1	-	-0.1	-	-0.1	-0.1	Dense
-	2940.5-2941.0	0.5	-1.0	-1.0	-1.0	-	-1.0	-1.0	Lost core

DEPTH	BULK DENSITY
2930'	2.58
2934'	2.65
2940'	2.59