

T A B L E O F C O N T E N T S

For

WELL NAME: Sogepet Aquit Kaskattama Prov. #1

1. GENERAL

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2. DRILLING

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BANFF OIL LTD.

WELLSITE GEOLOGICAL AND ENGINEERING REPORT

WELL NAME: Sogepet Aquit Kaskattama Prov. #1 (SUPPLEMENT)

LOCATION: LSD. _____ SEC. _____ TWP. _____ RGE. _____

WEST OF _____ MERIDIAN

GROUND ELEVATION: 15.3'

KB ELEVATION: 30.0' above High Water Line

SPOUDED: 9:30 a.m. Sept. 16, 1966

RIG RELEASED: 12:00 p.m. July 16, 1967

TOTAL DEPTH, DRILLER: 2941'

TOTAL DEPTH, LOG: Not logged.

Operations resumed July 1, 1967 after being
suspended December 17, 1966.

STATUS: Dry & Abandoned

DRILLING CONTRACTOR: Big Indian Drilling Co. Ltd., Calgary Rig No. 14

BANFF OIL LTD.

SUMMARY OF WELL DATA

WELL NAME Sogepet Aquit Kaskattama Prov. #1 (Supplement) DATE July 21, 1967

LOCATION 57° 04' 18.487" Lat. North
90° 10' 29.409" Long West CO-ORDINATES

PRODUCING HORIZON (S)

ELEVATIONS: Ground 15.3' KELLY BUSHING 30.0'

SPUD DATE Sept. 16, 1966 9:30 A.M. Suspended: 12:00 Noon Dec. 17, 1966
 Restumed: 12:00 Noon July 1, 1967

COMPLETED DRILLING, DATE: July 13, 1967 7:30 AM TOTAL DEPTH: 2941' HOLE SIZE 2-15/16 to 2941
8-3/4" to 330
4-11/16 to 1732

SURFACE CASING: SIZE 7" 23# J-55 SET AT 327' K.B. CEMENT 65 sx Hi-Early

PRODUCTION CASING: (note if Intermediate) 148 sx + 2% CaCl₂
 Intermediate SIZE 3-1/2" SET AT 1729' K.B. CEMENT 100 sx + 1% CaCl₂

LINER: SIZE Nil SET AT K.B. CEMENT

CEMENT PLUGS: (Abandonment, Lost Circ. or Plugback) 4 Abandonment Plugs - See Plug Back Report.

MUD TYPE Water - mixed gel and barytes to kill well at Total Depth.

NUMBER OF TESTS Nil

LOGS: (Abbreviate Type of Log) Nil

TYPE	RUN NO	DEPTH LOGGED	DATE

CORES:

CORE NO.	INTERVAL	RECOVERY	FM.
102	2880' - 2886'	5.8'	Ordovician - Ls.
103	2886' - 2900'	13.4'	Ordovician - Ls.
104	2900' - 2930'	28.3'	Ord. Ls. & Ss. & Pre. Cam
105	2930' - 2933'	2.7'	Pre. Cambrian
106	2933' - 2934'	1.0'	Pre. Cambrian
107	2934' - 2941'	6.5'	Pre. Cambrian

REMARKS: (Type & Size of Cores, etc.) Diamond Cores. Core 102 to 107 O.D. 2-15/16"
I.D. 1-7/8"

DRILLING CONTRACTOR Big Indian Drilling Co. Ltd., Calgary, Alberta RIG NO. 14

WELLSITE SUPERVISION BY R. Russell, E. Schack, F. Halkow.

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W I N T E R S H U T D O W N

The operation of this project was temporarily suspended on December 17, 1966 because of the severe climatic conditions being experienced in this area at the time. With the exception of the drilling rig and camp buildings, all rental equipment was returned to the suppliers. The drilling rig, camp and the D4 caterpillar tractor were left on the drilling site at a standby rate. All the personnel were moved out for the winter months and operations were resumed on June 24, 1967.

DAILY PROGRESS REPORT

DAILY PROGRESS REPORT

Sogepet Aquit. Kaskattama Prov. #1

Progress every 24 hours ending at 8:00 A.M. on date shown.

1967

June 25

Arrive at location - start power plant and clean up camp.

June 26

Set up radio, clean up camp, service rig & D4 cat, dig water well. Aircraft ferrying in men and material.

June 27

Service rig and trucks, raised derrick, unload aircraft and clean up camp site.

June 28

Service rig and rig up, clean up camp site, unload aircraft.

June 29

Installed Hydril B.O.P. and continued rigging up. Wait on Baker pump and accumulator.

June 30

Rig up, nipple up, etc.

July 1

Waiting on Baker pump and accumulator. Serviced drill pipe, general repairs, etc.

July 2

Hooked Hydril to rig hydraulic system. Pressured up blind rams to 1250 P.S.I. O.K. Pressured up Hydril to 1050 P.S.I. for 15 minutes: - O.K. At 12:00 Noon commenced cleaning out cement. Cleaned out 4½" casing to swage at 28' w/3 7/8" bit. Ran in w/20' N.W.A.F. core bbl. and cleaned out cement to 80'.

July 3

Drilled out cement 80' to 145'. Slow progress due to light weight on bit and core bbl. jamming.

.../3

DAILY PROGRESS REPORT

Sogepet Aquit Kaskattama Prov. #1

Progress every 24 hours ending at 8:00 a.m. on date shown.

1967

- July 4 Drilled out cement 145' to 278'
- July 5 Drilled out cement 278' to 320'. Base of plug at 320'. Ran in with 50' BX core barrel to feel for bottom plug -- pipe plugging -- clean pipe and break circulation every 3 stands. Ran in to 2170'.
- July 6 Depth: 2886'
Ran in to 2880' - no cement had moved up and merged with upper plug. Installed new pump liners. Cut Core No. 102, Interval 2880' - 2886' and recovered same. Trip in with 30' N.W.A.F. core barrel, broke circulation but unable to core ahead. Trip out.
- July 7 Depth: 2886'
Tripped out -- bit twisted off at reamer shell. Ran in with NW bit and shell recovery tool -- unable to recover fish. Ran in with cut off taper tap -- no recovery. Ran in second time with taper tap worked on fish and trip.
- July 8 Depth: 2886'
Tripped out - no fish. Wait on BX bit and shell recovery tool, new taper tap and mill. Worked on Hydril, flare line etc.
- July 9 Depth: 2886'
Wait on fishing tools. Change liners in pump (5" to 3"), work on pump cross-head. Fishing tools arrived 5:30 p.m. Ran in with BX recovery tool, ratholed 8" through fish and tripped out -- no recovery. Ran in with taper tap, work on fish and trip out.
- July 10 Depth: 2886'
Recovered core catcher retainer shell. Ran in with tap and re-covered core catcher. Strung new drilling line. Ran in with tap, attempted to recover remaining fish (bit and lower portion reamer shell) - no recovery. Ran in with flat bottom mill and milled on fish.
- July 11 Depth: 2900
Milled on fish. Ran in with 30' N.W.A.F. core barrel. Cut core No. 103, Interval 2886' - 2900' and recovered same.

DAILY PROGRESS REPORT

Sogepet Aquit Kaskattama Prov. #1

Progress every 24 hours ending at 8:00 a.m. on date shown.

1967

- July 12 Depth: 2933'
Cut Core No. 104, Int. 2900' - 2930' and recovered same. Cut Core No. 105, Int. 2930' - 2933'.
- July 13 Depth: 2941'
Core No. 105 jammed. Pulled and recovered same. Cut Core No. 106, Int. 2933' - 2934' and recovered same. (core jammed). Cut Core No. 107, Int. 2934' - 2941', swivel seized. Worked on swivel.
- July 14 Depth: 2941'
Worked on swivel. Pulled and recovered Core No. 107. Wait on orders - 3 hours. Received abandonment program. Trip in open end and mixed mud.
- July 15 Depth: 2941'
Mixed mud and displaced hole to mud. Unable to kill water flow with 10.2 mud. Well had been flowing water at estimated 20 to 30 barrels per day since cement had been drilled out on July 4th. Ran abandonment Plug No. 1, Int. 2941' - 2981', with 6 sacks cement. Plug displaced O.K, but well not dead. Ran abandonment Plug No. 2, Int. 1900' - 1500' with 24 sacks cement and 2% CaCl₂. Plug displaced O.K. and well dead. Closed B.O.P. and waited on cement.
- July 16 Total Depth: 2941'
Waiting on cement. Felt for and found Plug No. 2 at 1310'. Laid down pipe. Well started to flow. Squeezed through kill line - 2 1/4 barrels mud in 2 hours at 900 lbs. pressure. Well dead. Ran Plug No. 3, Int. 1250' - 1000' with 14 sacks cement and 1% CaCl₂. Plug displaced O.K. Closed B.O.P. and waited on cement.
- July 17 Total Depth: 2941'
Waiting on cement. Opened B.O.P. after 12 hours. Well dead. Felt for and found Plug No. 3 at 970' at 3:30 p.m. July 16th. Laid down pipe. Ran Plug No. 4, Int. 60' to surface with 8 sacks cement. Installed flange with 2" valve on top of casing bowl.
Released rig at 12:00 midnight, July 16, 1967.

BIT RECORD

Well: Sogepet Aquit Kaskattama Prov. #1

Drilling Contractor: Big Indian Drilling Co. Ltd.

Date Drilling Started: September 16, 1966

Date Completed: July 16, 1967

(Operations resumed July 1, 1967 after being suspended December 17, 1966)

Bit No.	Size	Make	Type	Interval	Footage	Hours	Wgt.	R.P.M.
1 A	3 7/8	Tricone						
1 B	2 15/16	S. C.	Diamond NW	159		4.1 3/4		
13 C	2 15/16	S. C.	Diamond BX	2886	6	17		
1 B	2 15/16	S. C.	Rerun	2886				
14 C	2 15/16	S. C.	Diamond NW	2930	44	14 1/2	3.5	50
15 C	2 15/16	S. C.	Diamond NW	2934	4	3	3.5	50
16 C	2 15/16	S. C.	Diamond BX	2941	7	3 3/4	3.5	50

ENGINEERING

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'	2941'		
Casing in Hole	Size	Set at	Top of Cement	
Surface Casing	7"	327'		
Production String	3 1/2 "	1729'		

K.B. Elev. 30.0'

F.T.D. 2941'

Fluid in Hole Mud

Plug Back String _____

Service Company Big Indian Drilling Co. Ltd.

Cons. Bd. Officer _____

	Plug #1	Plug #2	Plug #3	Plug #4	Plug #5	Plug #6
Date	July 14	July 14	July 15	July 16		
Interval — Top Bottom	2841 2941	1500 1900	1250 1000	Surface 60		
Formation — Name Depth	Ord/Prec 2917	Silurian				
Calipered Hole Size (Average)	2-15/16	3"/2-15/16	3"	4" to 3"		
Type of Cement	Portland	Portland	Portland Normal	Portland Normal		
Number of Sacks	6	24	14	8		
Additives	nil	2% CaCl ₂	1% CaCl ₂	nil		
Bbls. of Water Ahead	nil	nil	nil	nil		
Displacement — Bbls. Water Bbls. Mud	13 bbl.	7 bbl.	4 bbl.	---		
Slurry Weight	13 1/2 #	14 #	14.2 #	15.2 #		
Mixing Times — Start Finish	1:30 PM 1:35 PM	4:15 PM 4:50 PM	8:40 PM 8:50 PM	9:50 PM 9:57 PM		
Displacing Times — Start Finish	1:35 PM 1:50 PM	4:50 PM 5:00 PM	8:50 PM 9:00 PM	9:57 PM 10:00 PM		
Felt Plug Time	July 15 9:30 AM	July 15 9:30 AM	July 16 3:30 PM			
Felt Plug Depth		1310'	970'			

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

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

Remarks Plug #2 did not hold. Well started flowing after 20 hours.
Waiting on cement.

Agent of Operator _____

CORE LABORATORIES-CANADA LTD.
CALGARY ALBERTA

Company - BANFF OIL LTD. Date Report - AUGUST 21, 1967 Page - 1 of 2
 Well - SOGEPET AQUIT KASKATTAMA PROV NO. 1 D. Fluid - WATER BASE File - CNP-4-3806
 Field - WILDCAT, MANITOBA Analysis - CONVENTIONAL Analysts - JH MM MA

SAMPLE NUMBER	DEPTH REPRESENTED FEET	FOOT. REPR.	PERMEABILITY MILLIDARCS	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	RESIDUAL OIL % PORE	SATURATION % PORE	VISUAL EXAMINATION
CORE 102	2880' - 2886'	(Rec. 5.8')	(2 Boxes)	-	-0.1	-	-0.1	-0.1	Dense
-	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)	-	-0.1	-	-0.1	-0.1	Dense
-	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)	-	-0.1	-	-0.1	-0.1	Dense
-	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 MILLIDARCS	PERM. X FEET	POROSITY PER CENT	POROSITY X FEET	RESIDUAL OIL % PORE	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' (R.C. 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

BULK DENSITY

2.58
2.65
2.59

DEPTH

2930'
2934'
2940'

W A T E R A N A L Y S I S

BANFF OIL LTD.

GEOLOGICAL MARKER REPORT

GRD. 15.3'
K.B. 30.0'

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

FORMATION / MARKER	FROM			
	Prognosis	Samples	Log	Sub-Sea
QUATERNARY "BEACH" SANDS		Surface 23'		
DEVONTIAN				
Abitibi Formation	30'	23'		+7
SILURIAN (upper)				
Upper Kenogami Fm	550'	423'	423'	-393
Lower Kenogami Fm		936'	936'	-906
SILURIAN (middle)				
Attawapiskat Fm			1076'	-1046
Kaskattama			1291'	-1261
SILURIAN (lower)				
?Port Nelson Fm		1884'	1884'	-1854
ORDOVICIAN				
CHURCHILL RIVER GROUP	1450'	2191'	2191'	-2161
(Palaeontological Top)		(2279)		(-2249)
Red Head Rapids Fm		2191'	2191'	-2161
Chasm. Creek Fm		2371'	2371'	-2341
Caution Creek Fm		2604'	2601'	-2571
BAD CACHE RAPIDS GROUP				
Portage Chute Fm		2687'	2687'	-2657
Basal Clastic Unit		2903'		-2873
PRECAMBRIAN		2913'		-2882

REMARKS:

					GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. 94
From	To	Core C. Ditch D.	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
		C	5.8'			<p>Core #102 2880-2886 Recovered 5.8' (Cut 6')</p> <hr/> <p>Limestone, light brown-yellowish, cryptocrystalline to rarely microcrystalline, 20% finely comminuted organic fragments (brachiopods, gastropods, crinoids) Rarely anhydritic (less than 2%) rare clusters very fine pyrite. Mottled with patches light grey-brown, very finely crystalline to microcrystalline dolomite (20%) with finely comminuted organic fragments as above. Silt 10% Massive, Dense.</p> <p><u>Coring Times</u> - 3,4,5,6,4,6</p> <hr/> <p>Core #103 2886-2900 Recovered 13.2' (Cut 14')</p> <hr/> <p>Limestone, light brown-yellow, cryptocrystalline; 10-20% finely comminuted organic fragments. Traces anhydrite, rare patches very fine pyrite. Mottled with patches and lenses of very finely crystalline dolomite (20%) as above. Massive. Dense.</p> <hr/> <p>Limestone. Grey-brown yellowish; cryptocrystalline 10-15% finely comminuted organic fragments with rare large brachiopod and colonial coral (2894'). Rare floating fine quartz grains. Silt 10-30%. Becoming slightly argillaceous (10%) with scattered patches and lenses. Traces very fine pyrite mottled with patches and lenses of very finely crystalline dolomite (20%) as above occasionally with rim of dark grey argillaceous limestone. Rare ineffective pin-point porosity. Massive</p> <p><u>Coring Times</u> 75,23,26,15,23,15,26,24,26,26,28,28,28</p> <hr/> <p>Core #104 2900-2930 Recovered 26.4' (Cut 30')</p> <hr/> <p>Limestone. Light brown rarely slightly yellowish, crypto-crystalline, with finely comminuted organic fragments (10%) Traces very fine pyrite; silty (20%); slightly argillaceous (10%) Mottled with light grey, slightly brownish dolomite, very finely crystalline/ microcrystalline (10-15%). Rare patches dark brown oil stain - from pipe dope. Massive. Dense. Slight disconformity at 2901'</p>

SAMPLES NOT LAGGED

					GEOLOGICAL SAMPLE DESCRIPTION	Sheet No. 95
From	To	Core C Ditch D	No. of Ft. Porous	No. of Ft. Non-Porous	Showings O.G.W.	
			0.9'			Limestone. Grey slightly brownish; cryptocrystalline/microcrystalline; rare, very fine organic fragments, slightly argillaceous (10%) with rare small patches, grey/dark/grey clay shale. Patches very fine pyrite (5%). Sandy; increasing from 20% at top to 40% at base; very fine/ fine grained, sub rounded/clear quartz Poor ineffective porosity (5%).
			3.6'			Shale: medium to dark greenish grey, becoming waxy and slightly brownish towards base; soft; sub-fissile, flaky. Floating grains of sub rounded very fine/fine occasionally medium, clear to smoky quartz. Occasionally in fine patches and streaks with white kaolin cement - becoming 10% at base. Patches of very fine pyrite (5%).
			0.7'			Sandstone: Grey/dark grey slightly brownish/greenish. Fine to medium occasionally coarse grained, locally very fine grained; sub-rounded, poorly sorted, very soft to friable; very argillaceous (30%), very poorly cemented. Fair/poor porosity. Traces pyrite Strong salty taste.
			0.8'			Sandy shale - medium grey slightly greenish, with slight waxy sheen Medium to fine quartz sand grains; sub-rounded to sub-angular, with patches of medium/fine sand with white kaolin cement. Very slightly pyritic. Tight.
			0.8'			Sandstone: medium brown patchy dark grey, medium/fine grained, sub-rounded/sub-angular; fair/poor sorting. Argillaceous (20%) with patches of grey/dark grey shale with floating quartz grains. Very soft/friable. Fair to good porosity. Strong salty taste.
			1.6'			Sandstone: light brown/buff occasionally slightly greyish. Medium/fine grained very fine grained (30%), poor/fair sorting becoming very poor at base. Sub-rounded to sub-angular, primarily clear quartz with rare ferromagnesium grains. Slightly kaolinitic (less than 10%). Fairly soft, friable, generally poorly cemented. Good porosity declining to fair at base. Strong salty taste. (Possibly some sand not recovered - Precambrian placed at 2912')
			3.9'			Gneiss - weathered hornblende, biotite, epidote gneiss.
			12.0'			Gneiss - hornblende, biotite gneiss.

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. 96
				0 2'		Pink granitic pegmatite <u>Coring Times</u> - 15,18,11,13,16,15,18,9,10,4,2,5,16, 13,17,14,13,7,4,5,11,10,9,9,16,20, 23,21,35,39 <hr/> Core #105 2930-2933 Recovered 2.6 (Cut 3') <hr/>	
				1.6'		Pink granitic pegmatite <hr/>	
				1.0'		Gneiss - hornblende, biotite gneiss <u>Coring Times</u> - 7,7,11 (Core jammed) <hr/> Core #106 2933-2934 Recovered 1' (Cut 1') <hr/>	
				1 0'		Gneiss - hornblende , biotite gneiss <u>Coring Times</u> - 13 <hr/> Core #107 2934-2941 Recovered 6.5' (Cut 7') <hr/>	
				6 5'		Gneiss - hornblende, biotite gneiss, with thin pink granitic veins and dikes. <u>Coring Times</u> - 42,12,12,18,15,30,30 <hr/>	

SAMPLES NOT LAGGED