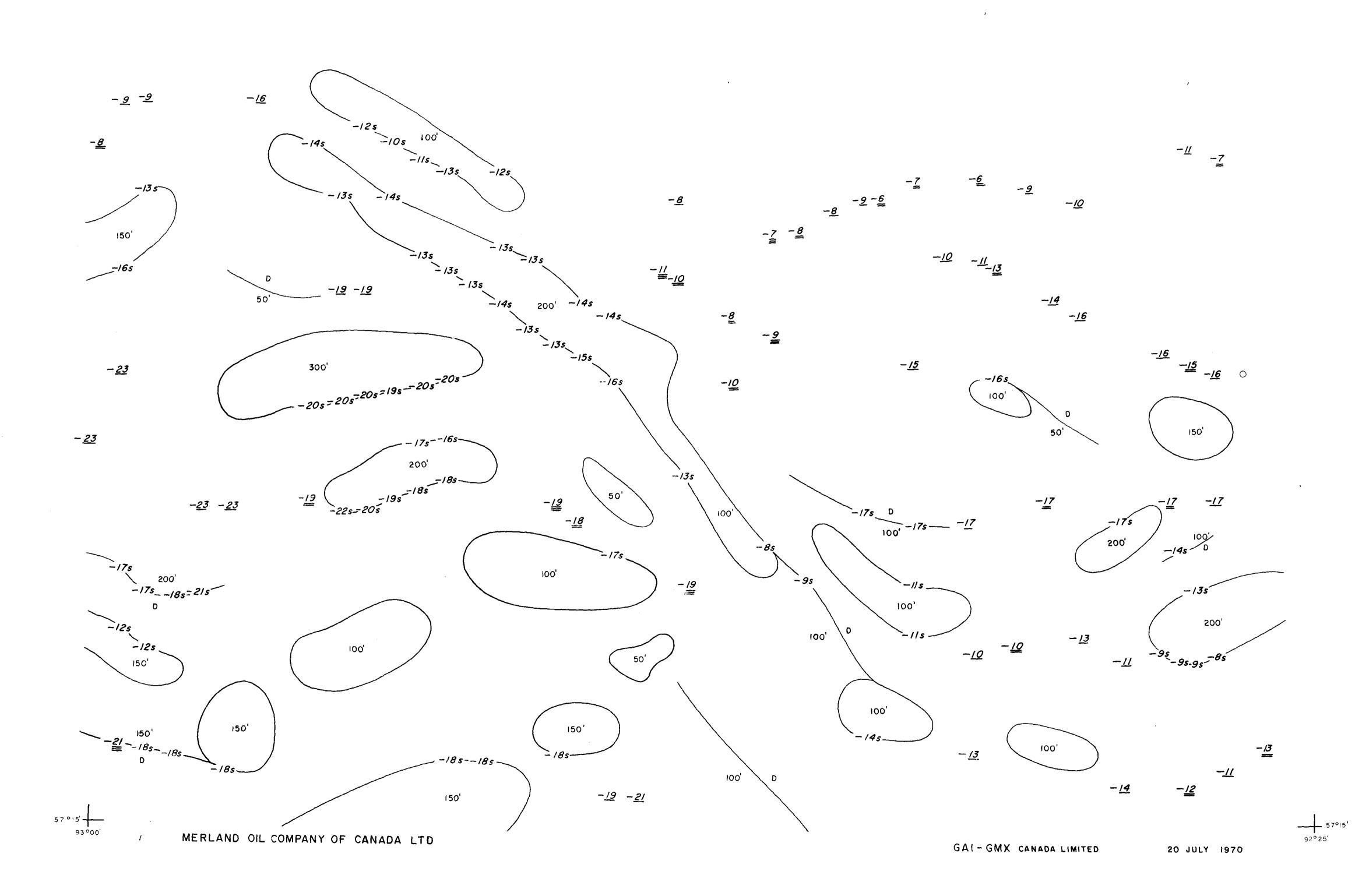
MICROFILMED

TO

June /1979







Field Other Areas

Original Drilling License No. 2454

PROVINCE OF MANITOBA

MINES BRANCH

APPLICATION TO

SUSPEND DRILLING RESUME DRILLING RECONDITION PLUG BACK

4 WELL

		PRODUCTIO	N		
	(Stroke Out Operat	tions Which Do Not A	ر Apply)		
Approval is hereby applied f				Act'' R.S.M. 1954.	Cap. 166.
of the following operations to be	commenced on or a	bout			
the 14th day of		•			
MERLAND et al WHI	rebear creek 7 23'n - 9	Brov. Sth #: 2 2 8 w	<u>L</u>		······································
located of Zat	WEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	XXXXXXXXXXXXX		•	•
being of NEW 1888 63	standing in	the name of NO	rth West	: @1	
	CAST	NG RECORD			
Size O.D.		nount Set		Sacks Coment	Method
1st String B Cooking			 5'		
n casing					
and String 35" (N Casing))	2	<u> 831 </u>	8.5	
3rd String	······				
	COMPUTAN	OF HELL /D			
Cotal Depth of Well		OF WELL (Depths			
Perforations: From					
Open Hole: 283					
Name of Producing Zone					
Date of last production					
Date of last production test					
ate of last production test		***************************************	Q10.24		
T A D		Daily Production			
		_			
W.O.R. Reason for Operations Proposed	Dry - no sl	bows	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 44551 149 14-14-14-14 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	Dry - no sl	bows	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1 44551 149 14-14-14-14 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Reason for Operations Proposed Verbal approval for	Dry - no s Abandonment	hows			
Reason for Operations Proposed	Dry - no s Abandonment	hows			
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7. NO. 2454

FILLD CA

WILL NOVE MERLAND et al WHITE BEAR CREEK PROV. STHE "

Grd. El. K.B. 23'

LAT 57 22 N LONG 92° 27' W

T.D. 1401

4/2 (11) @ 50" July 12 /70 Fin. Drlg. 31/2"(N) @ 283' x c 85 Surface Casing Production Casing 600'

V.O. FBHP D.S.T. SIBHP S.I. G.T.S. HH FEHP V.O. SIBHP S.I. G.T.S. HHY THE V.O. S.I. SIBHP G.T.S.

Logs: Jurassic: Eyap. Red Beds Mississippian Lp.

Company-Reported Tops.

Silurian - Upper Ekwan River. Lover Elevan River. 318 Seyern River. 455 . Port Nelson Fm. 718.

Ordavician - Church M. R. Gr. Bud Cache Ropids Cop. 1078.

Precambrian

1398.

TO TO: 100' - T.D

Perfs:

Acidized:

Drilling Contractor: MIDWIST DRILLING, ABD. STH July 14/70.

DATA COMPLETE

MONTHLY SCHEDULE FOR

PROVINCE OF MANITOBA MINES BRANCH DAY WORK RECORD DAILY DRILLING REPORT NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. RIG No. 11 tV LOCATION MERLAND et al WHITE BEAR STU #1. AREA HUDSON BOY DATE 14 JULY 1976 No. O.D. I.D. Wgt. Specify actual hours worked Hrs. 1401. Driller J. D Acres R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION Weight J. PICAPD Floor Floor 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives MUD At Surveys Degree MOTOR HOURS Floor WEIGHT VISCOSITY Motor GEL 3 Mechanic No. | Pres-P Model S.P.M Extra M Liner Size
No. 2 Pressure TON MILES TOTAL MILES Slip Injuries: Next Slip Model S.P.M. General Fires: F.C. Tour -- 8 a.m. to 4 p.m. Footage Wt. Drill String DRILL COLLARS COAL (1000 lbs.) O.D. I.D. Wgt. Tons Specify actual hours worked No. Size Size Jets | Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. FAVRERU Derrick 60 SAX Floor 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives MUD MOTOR HOURS Floor VISCOSITY Motor Ft. Up On Mechanic No. I Pres-Extra Model S.P.M. Liner Size No. 2 Pres-sure Injuries: Size TRIPS No. Lines TON MILES TOTAL MILES Model S.P.M. General Fires: Cont'r Time Tour - 4 p.m. to Midnight From Footage Wt. Drill String DRILL COLLARS Stands Hrs. on WATER (1000 lbs.) No. Q.D. I.D. Wgt. Specify actual hours worked Hrs. Sinales GREEN FIELD Driller B No. Size Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. COUNE Derrick Floor Floor 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives MOTOR HOURS Next Oil At Surveys Degree MUD Floor DEPARTMENT OF MRIES & NAT. RESDURCES Motor VISCOSITY 2 Ft. Up On Mines Branch 3 Mechanic No. I Pres-JUL 2 1 1970 TOTAL Extra P Model S.P.M. 5 W Liner Size No. 2 Pressure Model S.P.M. Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feef Next Slip Petroleum Eng. Division VIRDEN Fires Company Time Cont'r Time Totco Ring on Bit No.______D.P. Calipered Date_____ Results_____From Pipe Rack_____ Total Contractor Time _____Hrs. B.O.P. Test-Operated_____Time____

Total Company Time Hrs.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. RIG No. 11- TV LOCATION Merland etal WHITEBEAR SITH #1. AREA Hudson Bay DATE 13 July 19 70 REMARKS DRILL COLLARS Tour — Midnight - 8 a.m. Specify actual hours worked ifoi Singles W. O. hogging agaginant. J. DAGG R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. No. D. Collan V. PICARD. Floor C.R. Ft Floor 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives MUD At Surveys Degree MOTOR HOURS Floor VISCOSITY 2 Motor Ft. Un Or Mechanic No. I Pres-Extra Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Injuries: Model S.P.M. General Fires. F.C. Cont'r Time Company Time Wt. Drill String DRILL COLLARS Tour - 8 a.m. to 4 p.m. WATER COAL Gals. Specify actual hours worked 1401 Sinales No. Size R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. D. Collars FAURICAL. Floor Floor At Surveys Degree MOTOR HOURS | Next Oil Change MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives W.O. Log. EQUEPMENT VISCOSITY 2 Motor Ft. Up On Mechanic No. I Pres-Extra Model S.P.M. Liner Size No. 2 Pres-sure Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Next Slip Model S.P.M. General Fires: Liner Size F.C. Company Time Cont'r Time Tour - 4 p.m. to Midnight Footage Wt. Drill String DRILL COLLARS Stands FUEL WATER COAL O.D. I.D. Wgt. Specify actual hours worked Wol høggers æegupmat on lease 430 pm -Rem Electric hog @ 500 pm 8P + Rest. -Singles GREENFIELD Size No. Feet Reamed Hrs. D. Collars Derrick Floor Floor MOTOR HOURS Next Oil Change 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives MUD At Surveys Degree Floor WEIGHT DEPARTMENT OF MINES Finished at 1100 PM VISCOSITY Motor 2 3 Mines Branch Mechanic No. I Pres-Extra P Model S.P.M. JUL 2 1 1970 Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Model S.P.M. General VIRDEN Fires: Cont'r Time Totco Ring on Bit No._______ D.P. Calipered Date_____ Total Contractor Time _____Hrs. Approved by 4 B.O.P. Test-Operated______Time_____ Total Company Time _____ Hrs.

PROVINCE OF MANITOBA MINES BRANCH DAY WORK RECORD DAILY DRILLING REPORT NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. RIG No. 1142 LOCATION MERLAND Ital White bear CK STA#1 Time DRILL COLLARS (1000 lbs.) No. Q.D. I.D. Wgt. 1383 Specify actual hours worked Hrs. Koon he 126 hours Driller B No. Size Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION 11 80 00 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree | MOTOR HOURS MUD Floor VISCOSITY Motor Ft. Up On 3 Mechanic TOTAL P Model S.P.M. Liner Size No. 2 Pres-sure No. Lines TON MILES TOTAL MILES Slip Feet Next Slip Injuries Model S.P.M. General Fires: F.C. Cont'r Time Company Time Footage DRILL COLLARS WATER COAL Tour - 8 g.m. to 4 p.m. BR Rods I.D. 1401 Specify actual hours worked 1383 ST. LOWS R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION No. Size Size Jets | Serial No. FAYREAU BQ 0.0. Floor Floor At Surveys Degree MOTOR HOURS MUD Ba.m. 10 a.m. 12 Noon 2 p.m. Additives Floor WEIGHT VISCOSITY Motor Ft. Up On 3 Mechanic No. 1 Pres-Extra P Model S.P.M. Liner Size No. 2 Pres-sure Next Slip laiuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut S Model S.P.M F.C. Cont'r Time Company Time Tour - 4 p.m. to Midnight Footage Wt. Drill Strine DRILL COLLARS (1000 lbs.) No. O.D. I.D. Wgt. Specify actual hours worked W.O. hogging equipment Driller No. Size Size Jets | Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION Derrick Floor Floor 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree | MOTOR HOURS | Next Oil MUD Floor WEIGHT VISCOSITY Motor Ft. Up On 3 GEL Mechanic No. | Pres-4 TOTAL Extra Liner Size No. 2 Pres-sure Petroleum Eng Division Slip Feet Injuries: TRIPS No. Lines TON MILES TOTAL MILES Next Slip S Model S.P.M. General Cont'r Time Totco Ring on Bit No.______ D.P. Calipered Date_____ Results From Pipe Rack Total Contractor Time _____Hrs. Toolpusher

Total Company Time .____ Hrs.

B.O.P. Test-Operated ______Time _____

PROVINCE OF MANITOBA MINES BRANCH DAY WORK RECORD DAILY DRILLING REPORT RIG NO. 1142 LOCATION WHOTEBERR STH # 1. NOTE-Please show FOOTAGE made while "Control Drilling" as well as HOURS. AREA Hadion Bay DATE 11 Juny 1970 Time Stop Interval REMARKS Hrs. on Wt. Drill String Bottom (1000 lbs.) Tour - Midnight - 8 a.m. 1327 Specify actual hours worked V. DAGG Driller B No. Size Hrs. Feet Reamed Hrs. R.P.M. Ft. Drilled CONDITION Size Jets | Serial No. Weight D. Collars V. DICARD. Rux in Bol rods & clean to Floor 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS MUD Floor VISCOSITY 2 Motor Ft Up Or 3 Rig up B.o.P. -Mechanic No. I Pres-4 P Model S.P.M Liner Size No. 2 Pres-sure TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Left Injuries: Next Slip Model S.P.M. General Fires: Cont'r Time Company Time Wt. Drill String Hrs. on DRILL COLLARS Tour -- 8 a.m. to 4 p.m. WATER COAL I D 1327 Gals. Tons Specify actual hours worked Singles St. Louis Feet Reamed Hrs. D. Collars FAVREAU Floor 5 10 BQ Floor MOTOR HOURS Next Oil Change MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree VISCOSITY Motor Ft. Up On Mechanic Extra P Model S.P.M. D Liner Size P No. 2 Pres-sure injuries: TON MILES TOTAL MILES Slip Feet TRIPS No. Lines Next Slip S Model S.P.M. General Fires: F.C. W.L. Company Time Cont'r Time Tour - 4 p.m. to Midnight From Wt. Drill String DRILL COLLARS FUEL WATER COAL (1000 lbs.) 1383 Specify actual hours worked 1367 Singles GREEN FIELD Driller No. Derrick 1/0 Floor MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. At Surveys Degree MOTOR HOURS Floor WEIGHT VISCOSITY Motor GEL 3 Machanic No. | Pressure TOTAL Extra P Model S.P.M. Liner Size No. 2 Pres-sure Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Next Slip S Model S.P.M. General Liner Size pH. Cent'r Time Company Time Totco Ring on Bit No. D.P. Calipered Date Results From Pipe Rack N.O.P. Test-Operated _______Time ______Results _____ Total Company Time Hrs.

PROVINCE OF MANITOBA MINES BRANCH **DAY WORK RECORD** RIG No. 1/42 LOCATION White bear ck STH +1 DAILY DRILLING REPORT NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. AREA HUDSON BAY DATE 10 LULY 19 70 REMARKS Specify actual hours worked Hrs. 86ls. Singles J. DAGG Driller No shift - hole B No. Size Size Jets Serial No. R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars J. DICARD Derrick Other Ft. Floor Floor 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS MUD Floor WEIGHT VISCOSITY 2 Motor Ft. Up On 3 Mechanic No. i Pres-TOTAL Model S.P.M Extra 5 U Liner Size No. 2 Pres-sure Slip Feet Cut TRIPS No. Lines TON MILES TOTAL MILES Injuries: Next Slip S Model S.P.M. General Fires: Liner Size W.L. F.C. Company Time Cont'r Time Footage DRILL COLLARS WATER COAL Tour -- 8 a.m. to 4 p.m. (1000 lbs.) Specify actual hours worked Same as above h. 0025 B No. Size R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. D. Collars FIEU REAL Derrick Floor C.B. Ft. Floor MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives At Surveys Degree MOTOR HOURS | Next Oil Change Floor VISCOSITY Motor Ft. Up On 3 Mechanic No. I Pres-TOTAL P Model S.P.M. Extra Liner Size No. 2 Pres-sure Size TRIPS No. Lines TON MILES TOTAL MILES Injuries: Slip Next Slip Model S.P.M. General Fires: W.L. Cont'r Time Company Time Tour - 4 p.m. to Midnight From Footage DRILL COLLARS Stands FUEL WATER COAL O.D. I.D. Wgt. Specify actual hours worked 1327 Bbls. Singles GREEN FIELD Driller B No. Size R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. CONDITION D. Collars Derrick Floor Floor At Surveys Degree MOTOR HOURS Next Oil Change 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives MUD Floor DEPARTMENT OF MINES Motor VISCOSITY 2 & NAT. RESOURCES Ft. Up On 3 Mechanic No. I Pres-Mines Branch 4 TOTAL Extra

Totco Ring on Bit NoB.O.P. Test-Operated			•	Date	·			Resu Resu			·	From P	ipe f	Rack	******		Total Company Time	Hrs. Toolpusher				
		W.L.	Size	F.C.	<u> </u>	pH.											Company Time	Cont'r Time				
Fires:	s		S.P.M. Liner Size				General												Petroleu	VIRDEN		
mjarias.	M	No. 2	Liner Size Pres- sure S.P.M.		_	 	Size	IKIFS	NO. Lines	TON MILES	TOTAL MILE	3 311	Fee	Cut	Feet Left on Spool	Next Slip				E-ci I	setsion	
Injuries:	\ U	1	Liner		7 -	1	Size	TRIDS	Na Lima	TON MUSE	TOTAL MILE	C C111	Fac	et o	Feet Left				- 1 - 30	# T T 18		

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. AREA HUNDON Buy DATE July 9 19 70
RILL COLLARS FUEL WATER COAL Stands RIG No. 1/42 LOCATION White Bear Ch STH#1 REMARKS Wt. Drill String DRILL COLLARS
(1000 lbs.) No. O.D. I.D. Wgt. Tour - Midnight - 8 g.m. Specify actual hours worked Hrs. Sinales DAGG Driller R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. D. Collars PICAND Derrick Floor Coving B. Q C.B. Ft. Floor MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Floor Subs. Ft. VISCOSITY Motor Ft. Up Or Machanic No. I Pres-Extra TRIPS No. Lines TON MILES TOTAL MILES Stip Feet Injuries: No. 2 Pres-S Model S.P.M General Fires: F.C. Company Time Cont'r Time Footage Wt. Drill String Tour - 8 g.m. to 4 p.m. DRILL COLLARS WATER COAL (1000 lbs.) Specify actual hours worked Singles S1. LOUIS Size Jets | Serial No. R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. D. Collars FAVLEAU Floor 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives MUD At Surveys Degree MOTOR HOURS Coring & Q Floor VISCOSITY Motor Ft. Up On Mechanic TOTAL Extra Model S.P.M. Injuries: TON MILES TOTAL MILES Slip Feet Next Slip M Size
No. 2 Pressure
S Model S.P.M. Fires: Liner Size W.L. F.C. Company Time Cont'r Time Tour - 4 p.m. to Midnight Wt. Drill Strin DRILL COLLARS WATER COAL (1000 lbs.) O.D. I.D. Wgt. Specify actual hours worked Singles GREENFIELD B No. Size Type R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. D. Collars COYLE Derrick 8 80 Other Ft. Floor Floor 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Floor Motor VISCOSITY DEPAR MA Mechanic No. | Pres-Model S.P.M 1 7 197 Model S.P.M. Injuries: TON MILES TOTAL MILES Next Slip General Fires: Company Time Cont'r Time Totco Ring on Bit No.______D.P. Calipered Date______Results_____From Pipe Rack_____ Total Contractor Time _____Hrs. B.O.P. Test-Operated_____Time____ Total Company Time .____ Hrs.

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FÖOTAGE made while "Control Drilling" as well as HOURS.

No. 1142 LOCATION W.						aug s	19	REMARKS	Start	Time Stop II	Interva
Tour Midnight - 8 a.m.	From Footag	je To Hrs. Botti	on Wt. Drill String DRII om (1000 lbs.) No. O.	LL COLLARS D. I.D. Wgt		COAL Bbis. To				1	
Specify actual hours worked Hrs.					Gals.	BD15. [0]	Singles	W.O.C.			
DAGG	B No. Size	Type Size Jets	Serial No. Weight R	P.M. Ft. Drilled	Hrs. Feet Reamed I	frs. CONDITION	D. Collars	1 70.0, 6.	1		
PICALO									+ +		
	Ţ						Other Ft.				
	S	,	<u></u>			Novt Oil	C.B. Ft.	Run BQ crods			
	<u> </u>	n. 2 a.m. 4 a.m. 6 a.m.	Additives	^	d Surveys Degree MOTO	HOURS Next Oil Change	Subs. Ft.	1	1		
	WEIGHT				2		Jubs. Pr.	to 600'	+ +		-
	GEL				3		Ft. Up On Kelly		<u> </u>	 	
ic	No. I Pres- sure				4		TOTAL	=		<u> </u>	
	P Model S.P.M.				5						
	M Size No. 2 Pressure		Size TRIPS No. Lines 1	ON MILES TO	TAL MILES Slip Feet	Cut Feet Left on Spoo	Next Slip		†		
,	P No. 2 Pres-								+	. +	
1	S Model S.P.M.		General								
,	Liner Size W.L.	F.C. pH.					<u> </u>		<u> </u>		
	<u> </u>		on Wt. Drill String DRII	LL COLLARS		Innui	Stands	Company Time Cont'r Time	+		
Tour — 8 a.m. to 4 p.m.	From Footag	ge To Hrs. Bott	om (1000 lbs.) No. O.		FUEL WATER	COAL Bbls. Toi	4	Ran 30 to bottom	,		
Specify actual hours worked Hrs.	1004 7	0 1024			5503.		Singles				
ST COUIS	<u> </u>	Type Size Jets	Serial No. Weight R	.P.M. Ft. Drilled	d Hrs. Feet Reamed I	frs. CONDITION	D. Collars	_	+		
PAUREAU	6 89	D.D.						770	+	-	
	17 BQ	D.D.					Other Ft.	Coring 60		 	
	3	100 100 100	1.188		t Surveys Degree MOTOI	HOURS Next Oil Change	C.B. Ft.				
	MUD 8 a.m	n. 10 a.m. 12 Noon 2 p.m.	. Additives	——— —	A 201AeAs Dedice WOLOI	HOURS Change	Subs. Ft.	Chacked crod-		1	
	1	,			2			Coring BQ Cracked crod- lost water-lecent let - Tripped	1	·	
ic	VISCOSITY W	<u></u>			3		Ft. Up On Kelly	wall - main - main	+		
	No. 1 Pres- suré	A			4		TOTAL	- Mit - Trypped			
	P Model S.P.M.	1			5		<u> </u>			i	
	Liner Size	· -	Size TRIPS No. Lines 1	ON MILES TO	TAL MILES Slip Feet	Cut Feet Left on Spoo	Next Slip	-			
	P No. 2 Pressure Model S.P.M.	ER	General		<u> </u>			_			
Fires:	Liner		General							 	
	Size	F.C. pH.						Company Time Cont'r Time	+		
Tour — 4 p.m. to Midnight	From Footag		on Wt. Drill String DRIL	LL COLLARS	FUEL WATER	COAL	Stands	Company Time Court Time	+		
Specify actual hours worked Hrs.		Botte		D. I.D. Wgt.		Bbls. Tor	. 			·	
	1024 130	1154					Singles		!		
GREENE 1510	B No. Size	Type Size Jets	Serial No. Weight R	.P.M. Ft. Drilled	Hrs. Feet Reamed F	Irs. CONDITION	D. Collars		!		
Coylé	1750	<i>D</i> D					Other Ft.				
	S								+		
		n, 6 p.m. 8 p.m. 10 p.m.	Additives		t Surveys Degree MOTOF	HOURS Next Oil Change	C.B. Ft.		+		
	WEIGHT	3		··· 	100 850 1	Change	Subs. Ft.	Councy BQ		NT OF M	MINI
	VISCOSITY				2		1	☐ DE	NAT	RESOURC	CES
ic	GEL	A		<u></u>	3		Ft. Up On Kelly		Mine	s Branch	1
	No. i Pres	1	<u> </u>		4		TOTAL			17 197	
	P Model S.P.M.	17,	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		5	Feet left	<u> </u>		704	. 1 1 137	
•	Liner Size M	+/4	Size TRIPS No. Lines T	ON MILES TOT	TAL MILES Slip Feet	Cut Feet Left on Spool	Next Slip	_	المرامية الم	Eng. Div	visio
	No. 2 Pres- sure Model S.P.M.	$+ \kappa +$	General		<u> </u>	L.			V V	IRDEN	
	Liner	1 1									
	}		 					1	+ +		
	W.L.	F.C. pH.						Company Time Cont'r Time	1	<u>' </u>	

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FÖOTAGE made while "Control Drilling" as well as HOURS. RIG No. 1,42 LOCATION White Bear Ch 5TH #1 AREA XULSON Bay DATE July 7 19 70 Tour - Midnight - 8 g.m. Wt. Drill String DRILL COLLARS Q.D. I.D. Wgt. Specify actual hours worked 1004 Driller DAGG Bulled N rado Size Jets Serial No. Weight R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. PICARD 9. D Floor C.B. Fr Floor 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives MOTOR HOURS Next Oil MUD Floor VISCOSITY Motor Ft. Up On Mechanic Extra Model S.P.M. Liner Size Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Injuries: Model S.P.M. General Fires: F.C. Cont'r Time Company Time Footage DRILL COLLARS WATER COAL Tour --- 8 a.m. to 4 p.m. O.D. Specify actual hours worked Sinales casing 51. WUIS No. Size Size Jets | Serial No. R.P.M. Ft. Drilled FAUREAU NO Floor Floor MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives MOTOR HOURS sprepared to cement Floor VISCOSITY Motor 3 Mechanic Extra P Model S.P.M M Liner Size No. 2 Pressure Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Next Slip Model S.P.M. Fires: F.C. Company Time Cont'r Time Tour - 4 p.m. to Midnight Wt. Drill String DRILL COLLARS WATER COAL O.D. I.D. Wgt. Specify actual hours worked CALEUN PIEUD B No. Size Size Jets Serial No. R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. casing at top to

uprevent slipping

Rig B. O. P. valves BU 5400 cemented tola Floor 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives MUD At Surveys Degree MOTOR HOURS Floor WEIGHT DRPARTMED Sx cour Motor VISCOSITY 3 Mechanic No. 1 Pres-Extra P Model S.P.M Liner Size No. 2 Pres-sure Injuries: TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Next Slip Model S.P.M. General Fires: Liner Size Company Time Totco Ring on Bit No.______D.P. Calipered Date_____ Toolpusher _____ The Muc. B.O.P. Test-Operated______Time_____ Approved by ...

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

	our jage to 37h	AREA_)	Audson Pay DATE July 6		REMARKS	Start Stop	e Interva
Tour — Midnight - S a.m.	From Footage To Hi	s. on Wt. Drill String DRILL COLLAI from (1000 lbs.) No. O.D. I.D.	RS FUEL WATER COAL	Stands			
Specify actual hours worked Hrs.	727 58 785	1.00	Wgt. Gals. Bbls. To	Singles			+
iller DAGG	B No. Size Type Size Jets	Serial No. Weight R.P.M. Ft.	Drilled Hrs. Feet Reamed Hrs. CONDITION	D. Collars	Carrie 11/2		
rrick PICALD	B No. Size Type Size Jets I W NO P.)				Coring NQ		
or	TS			Other Ft.	,		
ог	MUD 12 Mn, 2 a.m. 4 a.m. 6 a.	n. Additives	At Surveys Degree MOTOR HOURS Next Oil	C.B. Ft.			
or	WEIGHT		I Change	Subs. Ft.			
otor	VISCOSITY W		2	<u> </u>			
chanic	F GEL		3	Ft. Up On Kelly			
ira	No. I Pressure A Model S.P.M.		4 5	TOTAL			
uries:	U S.P.M.	Size TRIPS No. Lines TON MILES		Next Slip			
	U Liner Size No. 2 Pressure		or on Spor	11 14EX 31D	-		
·•s:	S Model S.P.M.	General		·			
	Liner Size						
	W.L. F.C. pH.			· · · · · · · · · · · · · · · · · · ·	Company Time Cont'r Time		
Tour — 8 a.m. to 4 p.m.	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s. on Wt. Drill String DRILL COLLAY ttom (1800 lbs.) No. O.D. I.D.		Stands			
Specify actual hours worked Hrs.	785 112 897 "	1,00	Wgf. Gals. Bbls. To	Singles			1
iller ST 60015	<u> </u>	Serial No. Weight R.P.M. Ft.	Drilled Hrs. Feet Reamed Hrs. CONDITION	D. Collars			
rrick FAULEAU	B No Size Type Size Jets 1 5 NU D.D.						
ог	- S			Other Ft.	Coring NO		
or	MUD 8 a.m., 10 a.m., 12 Noon 2 p.	n. Additives	At Surveys Degree MOTOR HOURS Change	C.B. Ft.			
or	WEIGHT		I Change	Subs. Ft.	-		
tor	VISCOSITY		2				
echanic	GEL		3	Ft. Up On Kelly	patricular distriction		
ira	No. 1 Pres- sure		5	TOTAL	-		
uries:	Liner Size	Size TRIPS No. Lines TON MILES		Next Slip	_		
	M No. 2 Pres- sure		on Spot	14421 3719			
Fires:	S Model S.P.M.	General					
	Liner Size						
	W.L. F.C. pH.	1			Company Time Cont'r Time		\rightarrow
Tour — 4 p.m. to Midnight	مفا. ا ّا	tom (1000 lbs.) No. O.D. I.D.	100	Stands			
Specify actual hours worked Hrs.	897 107 1004		Wgt. Gals. Bbls. To	Singles			
HOT GREENFIELD	B No Size Type Size Jets	Serial No. Weight R.P.M. Ft.	Drilled Hrs. Feet Reamed Hrs. CONDITION	D. Collars			
rick COYCE	1 5 NQ OD				11/2		
or	S			Other Ft.	Corne NO		+
or	MUD 4 p.m. 6 p.m. 8 p.m. 10 p.	n. Additives	At Surveys Degree MOTOR HOURS Next Oil Change	C.B. Ft.			
or	WEIGHT		900 89° 1	Subs. Ft.		DEPARTMENT OF MAT. RESOURCE	WINES
otor	VISCOSITY		2	Ft. Up On		& NAT. RESOURCE	
chanic	GEL A		3	Kelly		JUL 1 7 197	1 1
ra	No. i Pres sure A Modell S. P. M.		5	TOTAL		1 10-11, 131	4
uries:	U Liner Size	Size TRIPS No. Lines TON MILES		Next Slip	+	Petroleum Eng. Div	vision
	D No. 2 Pressure		on Space]	VIRDEN	
e \$:	S Model S.P.M.	General]		page 2000 2 100
	Liner Size W.L. F.C. pH.				Company Time Cont'r Time		

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FÖOTAGE made while "Control Drilling" as well as HOURS.

No. ZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	NI	From Footage To Hrs. on W1. Drill String DRILL COLLARS FUEL WATER COAL	19.2.	REMARKS	Start	Stop	Interv
		Bottom (1000 lbs.) No. O.D. I.D. Wat					
Specify actual hours worked	Hrs.	477 60 537	Singles				
DAGG			D. Collars	1		 	
PICARD			Other Ft.	1/10		 	
		T H NQ D. D.	Other Pt.	Coring Na		 	
		MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives At Surveys Degree MOTOR HOURS Change	C.B. Ft.				
		WEIGHT 500 870 1	Subs. Ft.	-			
				_			
c -		VISCOSITY GEL 2 3	Ft. Up On Kelly			 	
		No. I Pres- sure A 5	TOTAL			}	
		U Liner Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut Feet Let on Sport	Next Slip	4		 	
		M No. 2 Pressure	31 1400 312	_			
		Model S.P.M. General					_
	i	Liner Size					
		W.L. F.C. pH.		Company Time Cont'r Time			
Tour — 8 c.m. to 4 p.m.		From Footage To Hrs. on Bottom (1000 lbs.) No. O.D. I.D. Wgt. Gals. Bbls. To	Stands) }	
pecify actual hours worked	Hrs.	537 80 617 No. O.D. 1.D. Wgt. Gals. Bhis. To	Singles			1	
ST. Louis			D. Collars				
PAULGAU		B No. Size Type Size Jets Serial No. Weight R.P.M. Fr. Drilled Hrs. Feet Reamed Hrs. CONDITION 1 N.B		1/12			
	,	T 5 NO	Other Ft.	Coring NQ			
			C.B. Ft.				
		MUD 8 a.m., 10 a.m., 12 Noom 2 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change	Subs. Ft.	-		\	i
		VISCOSITY W					
:		GEL 3	F1. Up On Kelly			 	
		No. 1 Pres- sure 4	TOTAL			 	
		P Model S.P.M. Liner Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut GR Sport	Next Slip				
		M Size TRIPS No. Lines TON MILES TOTAL MILES Slip Feet Cut on Spoot	of Idext 211b				
· · · · ·		Model S.P.M. General	 			}	ĺ
res:		Liner Size	,				
		W.L. F.C. pH.		Company Time Cont'r Time			
Tour — 4 p.m. to Midnight		From Footage To Hrs. on Wt. Drill String DRILL COLLARS FUEL WATER COAL Bottom (1000 lbs.) No CD LD Wat	Stands	7			ĺ
pecify actual hours worked	Hrs.		Singles				
GKEENFIELD			D. Collars			 	
COYLE			7	104.45		+	
		T 5 NQ	Other Ft.	Coring NQ.			
		S I I I I I I I I I I I I I I I I I I I	C.B. F1.	DEPART	MENT OF	WINES	
		MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Change WEIGHT 7 Set 09 0	Subs. Ft.	DEPARA E NA	T. RESOU		
		WEIGHT 700 29° 1		1	lines Bran	070	
		GEL 3	Ft. Up On Kelly]	INF T.	Ί Ι	1
		No. I Pres' 4	TOTAL			Division	+
		P Modelis, p.M. Size TRUS No Lines TON MUES TOTAL MUES Size Feet Cut Feet Left	<u> </u>	Patr	Jaum Eng. VIRDE	-	
		M Size or on Spoc	Next Stip		VIRDE	ļ	
		P No. 2 Pres- S Model S.P.M. General					l
		Liner Size				1	
		W.L. F.C. pH.		Company Time Cont'r Time		T	

PROVINCE OF MANITOBA MINES BRANCH DAY WORK RECORD DAILY DRILLING REPORT NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS. RIG No. 142 LOCATION White Bear Ch. STH #1 AREA Hudson Bay DATE July 4 19 70 Start Tour — Midnight - 8 a.m. O.D. I.D. Specify actual hours worked Hrs. 303 314 Covery ahead Na 7) 466 Driller R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. Size Jets Serial No. Weight D. Collars PICARD Derrick 105 Other Ft. Floor Floor MOTOR HOURS Next Oil Change 12 Mn. 2 a.m. 4 a.m. 6 a.m. Floor WEIGHT VISCOSITY Motor Ft. Up. On Mechanic TOTAL Extra Model S.P.M. Liner Size No. 2 Pres-sure TOTAL MILES TON MILES Injuries: Next Slip M P S Model S.P.M. General Fires: F.C. Cont'r Time Footage Wt. Drill String DRILL COLLARS Stands Tour -- 8 a.m. to 4 p.m. WATER O.D. Bhls. Specify actual hours worked Singles Driller ST LOUIS No. Size R.P.M. Ft. Drilled Hrs. Feet Reamed Hrs. FAUREAU Floor C.B Ft Floor 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives MOTOR HOURS Next Oil Change MUD At Surveys Degree Floor VISCOSITY Motor Ft. Up On GEL Mechanic Model S.P.M. U Liner Size No. 2 Pres-sure Injuries: TRIPS No. Lines TON MILES TOTAL MILES Model S.P.M. General Fires: Cont'r Time Company Time Tour - 4 p.m. to Midnight Footage DRILL COLLARS Stands Specify actual hours worked Tons Singles akeenfield Driller Coring NO No. R.P.M. Ft. Drilled Hrs. Feet Reamed Derrick Other Ft. Floor Floor 4 p.m. 6 p.m. 8 p.m. 10 p.m. MOTOR HOURS Change MUD At Surveys Degree Floor Motor VISCOSITY Ft. Up On Mechanic No. I Pres-Extra P Model S.P.M.
Liner Size
M No. 2 Pressure
S Model S.P.M. Injuries: Size TRIPS No. Lines TON MILES TOTAL MILES Next Slip Fires: Cont'r Time Company Time Totco Ring on Bit No._ D.P. Calipered Date_ Total Contractor Time

B.O.P. Test-Operated_

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOURS.

No. 11/2 LOCATION				on Wt. Drill Stri						WATER		Stands	REMARKS	Start	Stop	Interva
Tour — Midwight - 8 a.m. Specify actual hours worked	T	From Footage	D-4	tom (1000 lbs.)	No.	O.D.	I.D. W	fUEL /gt.	Gals.	WATER	COAL T					
	rirs.	1	303		1 1						 	Singles				
DAGG	↓	B No. Size	Type Size Jets	Serial No.	Weight	R.P.M.	Ft. Drit	led Hrs.	Feet Rean	ned Hrs.	CONDITION	D. Collars	W.O.C.			
K PICARD	ļ ——	[Other Ft.		+		 -
	 	s				 -	 	_	 -					 	┾	
	 	MUD 12 Mn.	2 a.m. 4 a.m. 6 a.m	· Additives				At Surveys	Degree I	MOTOR HO	IRS Next Oil Change	C.B. Ft.		 	 	<u> </u>
	-	WEIGHT								1		Subs. Ft.				
	.	VISCOSITY GEL	 							3		Ft. Up On	-			
nic		No Pres-	 	 					 -	4		Kelly				
		P Model S.P.M.								5		TOTAL		 	 	 -
s:		M Liner Size No. 2 Pressure		Size TRIPS	No. Line:	TON	MILES T	OTAL MILE	S Slip	Feet C	r Feet Le on Spo	Next Slip			} -}	
		P No. 2 Pres- sure	 			<u> </u>			<u> </u>							<u> </u>
		S Model S.P.M.	 	General												
			.C. pH.	+												
Tour — 8 a.m., to 4 p.m.		From Footage		on Wt. Drill Strip	ng	DRILL CO	OLLARS	FUEL	-	WATER	COAL	Stands	Company Time Cont'r Time			<u> </u>
Specify actual hours worked	Hrs.		303	fom (1000 fbs.)			1.D. W		Gals.	Bt	_+				ļ	<u> </u>
	1		207									Singles	Retting down rade			
<u> </u>	 	B No. Size	Type Size Jets	Serial No.	Weight	R.P.M.	Ft. Drill	led Hrs.	Feet Ream	ned Hrs.	CONDITION	D. Collars				
FAURERY	 	i NO	D.D.			 -		\rightarrow		\rightarrow		Other Ft.	Rutting down rodo	+		ļ ———
	 	s	V-V-			<u> </u>	<u> </u>					C.B. F1.	are welling ince		1	-
	 	MUD 8 a.m.	10 a.m. 12 Noon 2 p.m	. Additives				At Surveys (Degree N	MOTOR HOL	RS Next Oil Change		cernent (dulling out plug). Coring ahlad with NQ.	 		├
	 	WEIGHT								1		Subs. Ft.	cernent (drilling out			<u> </u>
	 	VISCOSITY GEL	KER	 						2 3		Ft. Up On	plug)		<u> </u>	<u> </u>
nie	 	No. I Pres-	1.10	 						4		TOTAL	Coxing ahead	\		
	<u> </u>	No. I Pres- sure P Model S.P.M.	K			-				5			LINIA NO			
:		Liner Size		Size TRIPS	No. Lines	TON	MILES T	OTAL MILES	Slip	Feet C	Feet Le on Spor	Next Slip	30000 14	 	 	
		P No. 2 Pressure Model S.P.M.		General											 	
Fires:		Liner		General									 	 	 	
			.C. pH.	†·									Company Time Cent'r Time	 	 	
Tour — 4 p.m. to Midnight		From Footage	To Hrs.			DRILL CO	LLARS	FUEL		VATER	COAL	Stands		1	 	<u> </u>
Specify actual hours worked	Hrs.		307 Bott	om (1000 lbs.)	No.	O.D.	1.D. W		Gals.	ВЬ		ns Singles		 	 	
GREENFIELD												2:udiez		<u> </u>		
COYLE		B No. Size	Type Size Jets	Serial No.	Weight	R.P.M.	Ft. Drill	ed Hrs.	Feet Ream	ed Hrs.	CONDITION	D. Collars	Same as above	<u> </u>		
		i NQ										Other Ft.	<u></u>			
·		S										C.B. Ft.			VINES	A
	†		6 p.m. 8 p.m. 10 p.m	. Additives				At Surveys C	egree M	OTOR HOU	RS Next Oil Change	_L	DEPARTI & NA M	TON OF	RCES	1
,	 	VISCOSITY		 						2		Subs. Ft.	& NA	Rran	ch	1
nie	 	GEL		 						3		Ft. Up On Kelly	}	UL 17	1970	-
	 	No. I Pres-	MU							4		TOTAL	<u></u>	Ar I	, ,	1
		P Modell S.P.M.	,			,				5				VIRDE	Divisio	
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REMARKS: July 3: Cemented down annulus of H & N csg. w/52 sax cement.

Company Representative	:	
Contractor Representat	iveJim Daark Z	
Cementing Company:		Operator:
Board Representative:	G. E. Johnson	· · · · · · · · · · · · · · · · · · ·
Board Time:	7 days	

J. Efolin

DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FÖOTAGE made while "Control Drilling" as well as HOURS.

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or		S	1-	I	l.a 1.7									Nava	C.B. Ft.		1		
or		MUD WEIGHT	+	n. 10 a.m.	IZ Noon	2 p.m.	Additives				At Surveys De	gree MC	TOR HOU	Next Chang	Subs. Ft.				
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DAILY DRILLING REPORT

DAY WORK RECORD

NOTE—Please show FOOTAGE made while "Control Drilling" as well as HOLIPS

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DEPARTMENT OF MINES AND NATURAL RESOURCES MINES BRANCH

DIRECTOR'S OFFICE
901 NORQUAY BUILDING,
401 YORK ÁVENUE, WINNIPEG 1

License No:

Application for License to Drill new well Merland et al Whitebear Creek Prov. STH #1

In addition to the technical requirements governing the drilling of the hole and laid down by the Petroleum Division, the following rules will apply to all personnel connected with this project for its duration:

- (1) Only persons authorized by W. C. McLean, Regional Director, will be permitted to have firearms at this site.
- (2) There shall be no shooting at polar bears except in self defence.
- (3) No surface vehicles will be permitted in camp except a small tractor, which shall remain in the beach area until the drilling operation is completed.
- (4) Garbage will be deposited at least one-half mile from camp, burned and buried.
- (5) All activities pertaining to this operation, from site preparation to hole abandonment, will be under the direction of W. C. McLean and G. E. Johnson.

 $\mbox{Mr.}\ \mbox{W.}$ C. McLean should be contacted if any problems develop with wildlife in the area.

A CODE 204 / TELEPHONE 786-1431 / TELEX 03-5388 May 14th, 1970.

Mines Branch, Dept. of Mi nes & Natural Resources, 901 Norquay Building, Winnipeg, Manitoba.

DEPARTMENT OF MINES & NATULO CONTROL OF ACES

MAY 15 GTC

DIRECTOR OF MINES

Attention: Mr. J. Roper.

Dear Sir:

Work Permit. Re:

We would like to make an application for a work permit to drill a well to explore for oil and gas at the mouth of White Bear Creek in Northern Manitoba, (57 degrees, 22 minutes, north, 92 degrees 27 minutes, west.)

Midwest Drilling Company have contracted to drill this well for (Merland Oil Company of Canada Limited, 360 Bay Street, Toronto, Canada.

This work will commence in the latter part of May, and Midwest will have six (6) men on site.

Please let me know if you require any additional details. Weeks (Receive West 1968 68 1

Yours very truly,

MIDWEST DRILLING COMPANY

M.A. Menard

Contract Controller.

MM/ld

Mr. D. Marshall. cc:

Mr. W. Perchaluk.

Page Two Mr. Martin Monerd May 13, 1970

It will come with two poto of 212-12 subbors which will be sized for 1° red. Please you those through your lathe to increase the size to fit & drill red.

Lot he know if you have any problems.

Mours very truly.

P.M. Oley, Manager Calgary Drench

PNOsnjw

oc - F. Blae J. Cameron



May 13, 1970

Mr. Hartin Hanard Midwart Brilling Company 865 King Edward Street Winnipeg 21, Manitoba

Dear Sir:

Res Morleni et al Whitebeer Ork SWE SI

I am sending you a copy of a schematic diagram showing the well control equipment we will require to drill the Whitebear Creek well. All of the parts required have been ordered and will be delivered to your shop in Winnipeg semetime this menth. The only two items which we have not ordered are:

- (a) The double pin sub to drops over from M cosing thread to 3° line pipe thread.
- (b) The adaptor pub to change over from 2° line pipe throad to B casing throad so that we can use B casing as a bleed off line if necessary.

Please purchase or make up these two sebs. You will also require a stabbing valve which can be acrowed on so the top of the drill red in case the well wants to blow out and I will leave this to you. Presembly you already have one.

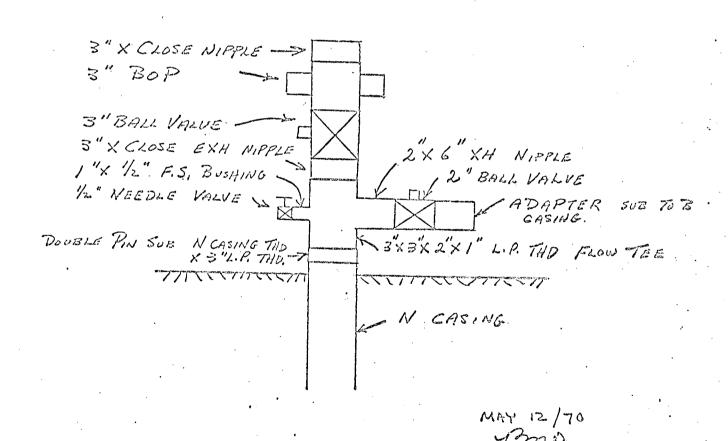
The blow out preventer we have ordered is the Ratigan No. 212 shown on the attached enect.

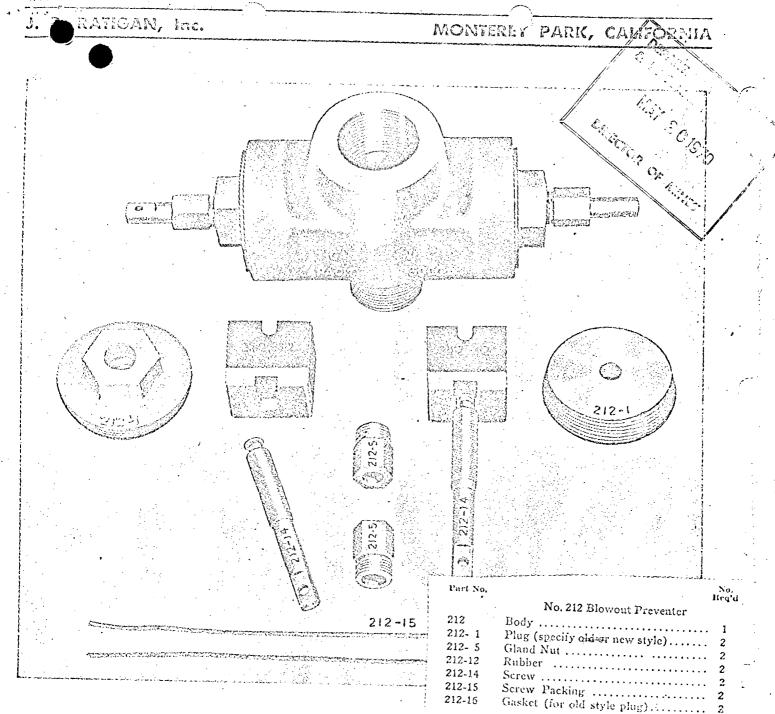
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MERLAND EXPLORATIONS LIMITED

SCHEMATIC DIAGRAM OF WELL CONTROL EQUIPMENT FOR MERLAND ET AL WHITE BEAR CREEK STATE!





RATIGAN NO. 212 BLOWOUT PREVENTER

Capacity, 3000 Lbs.

We have designed this blowout preventer for maximum safety and convenience in operation. Manufactured of high pressure electric steel, it is comparatively light in weight, of high capacity, and is equipped with retractable rubbers. The No. 212 is an ideal tool for swabbing or running rods in wells that head or flow in the course of operation. Two of these blowout preventers of the same size, with a nipple of any required length in between, make a very efficient unit for swabbing.

The rubbers are changed very quickly by unscrewing the plugs at each end and replacing the used

rubbers. Formerly, the rubber had a larger groove, but we made the groove smaller so that the No. 212-12 rubber would shutoff on any sucker rod 5%" to 1" inclusive and on any polish rod up to and including 1½" size. The same rubber will handle all these sizes, eliminating the necessity of changing the rubber to accommodate different sizes.

We manufacture the blowout preventer in 2", 2½" and 3" sizes. The 2" and 2½" sizes are supplied both plain and upset and can be furnished in male and female or double female. The 3" size is supplied male and female or double female.

License to drill Well, known as:



Cash No. 75.04

PROVINCE OF MANITOBA

DEPARTMENT OF MINES AND NATURAL RESOURCES

MINES BRANCH

 N° 2454

Director of Mines

DRILLING LICENSE

merland stal Whitebear Creek / 1W, STH #1
located on apprezent 57° 22' N - 92° 27' W
is hereby granted to Meriland Enfloration Camilal.
located on Ophreziente 57°22' N-92°27' W. is hereby granted to Merland Enfloration Limited. C/c J. L. Cherne, 4 60 main 11, Mannapy 2.
subject to the commencement of drilling operations with satisfactory equipment and personnel within ninety days from date of issue and subject further to terms and conditions as set out in Part IV of the Oil and Natural Gas Regulations under "The Mines Act", R.S.M. 1954, Cap. 166, and filed March 28, 1947, as Manitoba Regulation 14/47. The license is issued on the express condition that the licensee before making entry on the surface of the location, shall comply fully with the said
regulations. Deta of Issue // Horse 70

IN CONSIDERATION of the sum of \$25.00, the receipt of which is hereby acknowledged, a

NOTE: This license is issued on the understanding that the applicant has legally acquired the drilling and producing rights from the owner of the area described in the application, and does not convey any such rights.

118. (1) Where the director is satisfied that a licensee has committed a breach of any of these regulations, he may cancel or suspend the license for a definite time or indefinitely and he may issue a new license in place of the license so cancelled or suspended.



MINES BRANCH

MAY 19-70 RES .75049 *** 25.00

APPLICATION FOR LICENSE TO DRILL NEW WELL

11/0/70

This application in quadruplicate, accompanied by the required license fee and four copies of plan of certified survey must be submitted and approved before commencing operations. Manitoba, May 5 In compliance with Drilling and Production Regulations being Part IV of the Oil and Natural Gas Regulations under "The Mines Act", R.S.M. 1954, Cap. 166, application is hereby made for a license to drill:

Merland et al Whitebear Creek STH #1 Merland Explorations Limited of applicant company, firm or individual) Section Township Range Surface location: L.S. Approximately 57° 22'N 92° 27' W - near the mouth of Whitebear Creek (North of South) feet (South of North) boundary of (East of West) feet (West of East) boundary of Area assigned to Well. (To be assigned by Director of Mines) being 399, 407 acres. Beese Number 59 - 65 and Lease comprises ... Oil and natural gas rights owned by of Cement plug from T.D. to Grantian formation at a depth of about 3 ft below Such estimated 20 The elevation of the (delfice 1869) is tobeabandoned We propose to use the following strings of casing, either cementing or landing them as below indicated. New or Weight Estimated Casing Size Grade Brand Used Lbs./Ft. Depth Cement Inches MX New LOGGING REQUIREMENTS LUC TO BE RUN ELECTRIP Expected Water, Gas and Oil Horizons and Method of Control: Possible horizons in Silurian and Ordovician to be controlled by BOP and drilling fluid. Install non-return valve between water swiveland
hose to control possible blow-back of water

(rotary) Midwest Drilling Midwest Drilling Well will be drilled with (cable) tools by At Well: Mr. Prank Blue At registered Manitoba Office Mr. Ted Charne 208 - 718 Bighth Avenue S.W. (Registered) Address: Calgary 2, Alberta Address: 460 Main Street - Winnipeg Responsible agent of applicant: It is understood that if changes in this plan become necessary we will promptly notify you. Approved

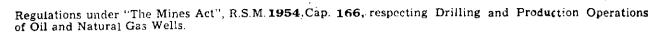
Kindly read the Excerpts from Drilling and Production Regulations Part IV of Manitoba Regulation CB 34 14/47 on reverse side before completing this form.

3-51

By cleane
The attached conditions become an integral part of this license.

25

EXCERPTS FROM DRILLING AND PRODUCTION REGULATIONS



- 109: (1) No person shall commence to drill any well or undertake any operation preparatory or incidental to the drilling of a well, or continue any drilling or producing operations at a well unless he holds a license for such purpose, issued pursuant to these regulations;
 - (2) No person shall carry on drilling operations at a point other than that specified in his license.
- 110. (1) Application for a license shall be made to the chief mining recorder but shall be subject to the approval of the director; and
 - (2) The application shall be supported by such evidence as the director may require, including:-
 - (a) the proposed programme of the drilling operations;
 - (b) the location of the point at which it is proposed to drill the well;
 - (c) where the proposed well is located in any tract already held by some person by assignment or lease, a copy of the assignment or sublease from the original lessee or other satisfactory evidence of the applicant's right to drill at the point applied for.
- 117. (1) The director or anyone authorized by him, shall at all times have access to all wells, records, plants and equipment and shall have the right to take samples and particulars or to carry out any test or examination desired;
- (2) The operator of a well or of drilling operations at a well shall render such officer any assistance that may be required;
- (3) Every official authorized by the director to exercise any of such powers shall have, at all times while exercising such powers, a certificate of authority signed by the director, and shall produce the certificate on demand.
- 120. The surface location of every drilled well shall be as nearly as possible, in the centre of the area assigned to such well in accordance with section 119, but where surface conditions or other circumstance so justify the director may permit the well to be located outside the centre of the assigned area, provided that in no event shall a surface location be nearer to the boundary of the assigned area than one-half the distance from the centre of the assigned area to the boundary thereof.
- 122. Except where special circumstances exist which, in the opinion of the director, justify such action, no license shall be granted for drilling a well within:
 - (a) Three hundred and thirty feet of the nearest boundary of the area of the oil and natural gas rights which are owned or controlled by the operator; or
 - (b) Three hundred and thirty feet of any road allowance, surveyed road, railway, dwelling, school or church.
- 123. (1) A well shall not penetrate any part of the producing horizon at a point nearer to the interior boundary of the legal subdivision or other area assigned to the particular well, than one-half the distance from the centre of the area to the boundary of the area;
- (2) Where a well is drilled upon an approximately square forty acre tract, the producing horizon shall be penetrated at a point within the square comprising the ten central acres of the tract;
- (3) Where in a particular tract the director has prescribed surface locations at points other than in the centre of an approximately forty acre tract, the provisions of subsection (2) shall not apply, but such a well shall not penetrate any part of the producing horizon at a point nearer to the boundary of the legal subdivision or assigned area, than one half the distance from the top of the well to the nearest boundary;
- (4) Where the director, in accordance with section 121, has fixed the surface location of a well at a point outside the limits prescribed in section 120, the director may order the operator to so directionally drill such well as to assure the penetration of the horizon at a point in compliance with subsection (3) of this section.
 - 133. (1) The equipment of all wells shall include:-
 - (a) On the subsurface equipment, a pincollar or its equivalent, appended to the lower end of the production string or tubing as a safeguard against the loss of testing equipment;
 - (b) On the surface equipment, such valve connections as are necessary to sample oil, natural gas, or water being produced;
 - (c) For sampling gas, a half-inch sampling valve in the line in which the gas is being metered, situated far enough from the orifice plate so as not to contravene the requirements of sections 177 to 182 of these regulations respecting metering;
- (2) The surface and subsurface equipment of all oil and natural gas wells shall be so arranged as to allow officers of the Branch to take the closed in pressure, the bottom hole pressure and the working pressure of the well or to make any test at any time, and the operator of any well shall assist the officers in carrying out any such tests.
- 145. (1) The operator, at any well in the process of drilling or reconditioning shall keep, in triplicate, a daily record of all operations carried on at the well;
- (2) The original copies of the daily records for any week shall be filed with the Branch within the next ensuing week and duplicate copies shall be turned over to the owner of the well and made a part of his permanent record.
- 146. (1) The daily report shall set out complete data on all operations carried on during the day, including:—
 - (a) the depth at the beginning of the day and the depth at the end of the day;
 - (b) the formations penetrated;
 - (c) any change in casing and, if casing set, all data regarding the setting, with the size-type and weight of casing used;
 - (d) particulars of any cementing;
 - (e) any water, oil or natural gas encountered, even if only in small showings;
 - (f) a report on any deviation or other tests carried out;
 - (g) all operations whether strictly drilling operations or not, such as fishing, shooting, perforating, acidizing, surveying or abandonment;

....

 $x'(z) = z \cdot z'$

(2) Any suspension of operations shall be noted on the last daily report, previous to such suspension.

MANITOBA

DEPARTMENT OF MINES AND NATURAL RESOURCES MINES BRANCH

DIRECTOR'S OFFICE
901 NORQUAY BUILDING
401 YORK AVENUE, WINNIPEG 1

License No: 2454

Application for License to Drill New Well Merland et al Whitebear Creek Prov. STH #1

- Only those persons authorized by Mr. W.C. McLean, Regional Director, will be permitted to have firearms at this site, and Mr. McLean may rescind any permission at his discretion.
- (2) There shall be no shooting at polar bears except in self defence.
- (3) The searching out, flying low over, or hazing the bears by aircraft, or in any other manner, is forbidden.
- (4) No surface vehicles will be permitted in camp except a small tractor, which shall remain in the beach area until the drilling operation is completed.
- (5) Garbage will be deposited at least one-half mile from camp, burned and buried.
- (6) All activities pertaining to this operation, from site preparation to hole abandonment, will be under the direction of Mr. W.C. McLean and Mr. G.E. Johnson. Mr. McLean should be contacted if any problems develop with wildlife in the area.
- (7) The issuance of this License to Drill shall in no way be construed to indicate that future applications for a License to Drill will be granted. Each "Application for License to Drill New Well" will be considered at the time of receipt, and in the light of all information available at that time.

Mr. W.C. McLean, Regional Director,
Field Administration,
Department of Mines & Natural Resources,
Box 990,
The Pas, Manitoba
Telephone: 623-2612*

Mr. G.E. Johnson,
District Petroleum Engineer,
Petroleum Engineering Division,
Mines Branch,
Box 1359,
Virden, Manitoba.
Telephone: 748-1557

*If Mr. McLean is not available, please contact Mr. S.J. Williamson, Regional Supervisor; at the same address and telephone number.

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PROVINCE OF MANITOBA

245%

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