

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WILKINSON WEST TRAILLINE #4Date FEB 1/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

1001 T-328															
Drilled From _____ To _____ Hole Made _____				Drilled From _____ To _____ Hole Made _____				Drilled From _____ To _____ Hole Made _____							
Bit No.			No. Sds.	Length	Bit No.			No. Sds.	Length	Bit No.			No. Sds.	Length	
Serial No.			No. D.C.'s	Length	Serial No.			No. D.C.'s	Length	Serial No.			No. D.C.'s	Length	
Bit Size				Length	Bit Size				Length	Bit Size				Length	
Bit Type				Length	Bit Type				Length	Bit Type				Length	
Dr. from			Kelly in =		Dr. from			Kelly in =		Dr. from			Kelly in =		
Dr. to			TOTAL =		Dr. to			TOTAL =		Dr. to			TOTAL =		
Cored from			D.C.O.D. Top	Hrs. On Bottom	Cored from			D.C.O.D. Top	Hrs. On Bottom	Cored from			D.C.O.D. Top	Hrs. On Bottom	
Cored to			D.C.I.D. Top	Hrs. Off Bottom	Cored to			D.C.I.D. Top	Hrs. Off Bottom	Cored to			D.C.I.D. Top	Hrs. Off Bottom	
Reamed from			Pipe Size	Trip Time	Reamed from			Pipe Size	Trip Time	Reamed from			Pipe Size	Trip Time	
Reamed to			C.S.G. Set at	Serv. Time	Reamed to			C.S.G. Set at	Serv. Time	Reamed to			C.S.G. Set at	Serv. Time	
Total Bit Footage			C.S.G. Size	Rep. Time	Total Bit Footage			C.S.G. Size	Rep. Time	Total Bit Footage			C.S.G. Size	Rep. Time	
Bit Hrs.			Pipe in Hole	Jts.	Diesel Fuel Meter Reading	Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	Bit Hrs.		Pipe in Hole	Jts.	REMARKS:
Table R.P.M.			Pipe on Racks	Jts.	Today	Table R.P.M.		Pipe on Racks	Jts.		Table R.P.M.		Pipe on Racks	Jts.	

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation			Cousumption	Depth	Deviation			Cousumption
Depth	Deviation				Depth	Deviation			
Depth	Deviation				Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.9	84	58	600			7 1/4 x 14	5 x 10	8							7 1/4 x 14	
1							Liner Size 6 3/4	Liner Size 5	9							Liner Size 6 3/4	Liner Size
2							Water-Loss	Filter Cake	10							Water-Loss	Filter Cake
3							3.6	732	11								
4									12								
5									1								
6									2								
7									3								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>W. JEMAR</u>	Core Bit	Driller <u>D. McHANS</u>	Core Bit	Driller <u>B. BRISCOE</u>	Core Bit
Derrickman <u>L. SWEENEY</u>	Reaming Bit	Derrickman <u>D. BOGSTIE</u>	Reaming Bit	Derrickman <u>A. WHITING</u>	Reaming Bit
Cat Headman <u>N. BERGSTREISER</u>	Core Cutters SF. HF.	Cat Headman <u>H. BOGSTIE</u>	Core Cutters SF. HF.	Cat Headman <u>A. GRAY</u>	Core Cutters SF. HF.
Rotary Helper <u>C. FREDRICKS</u>	Swab Cups	Rotary Helper <u>J. ALARY</u>	Swab Cups	Rotary Helper <u>T. NYHUS</u>	Swab Cups
Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers
Fireman <u>V. C. OLSEN</u>		Fireman <u>L. THASS</u>		Fireman <u>R. KLEM</u>	
Leaseman		Leaseman <u>J. GERBRANDT</u>		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
CIRC. PRIOR TO TEST	12:00	1:00	TEST IN C.	8:00	9:00	MIX CEMENT + PUMP Plug	4:00	4:30
HOIST TO TEST CHECK BOP'S OPEN HOLE	1:00	3:00	BREAK DOWN TESTING HEAD	9:10	9:15	CLEAN UP & FEEL FOR Plug	4:30	11:30
PICK UP & MAKE UP TESTING TOOL	3:00	5:00	HOIST PACKER.	9:15	11:15	LEG DOWN DRILL PIPE	11:30	12:00
RUN IN W/TESTING TOOL SHOW	5:00	6:30	BREAK & LAY DOWN SAME	11:15	12:30			
MAKE UP TESTING HEAD	6:30	6:45	LOAD OUT TESTER	12:30	1:30			
WAIT ON DAYLIGHT	6:45	7:30	RUN COLLARS IN & LAY DOWN SAME	1:30	2:45	Plug #1 3198-2725		
INITIAL SHUT IN	7:30	8:00	RUN IN OPEN END	2:45	4:00	175 521 3/4 C&CT 2 DOWN		
						4:30 P.M. FOUND IT 2698		
						11:30 P.M.		

Company Representative

GUTHRIE McLAREN DRILLING LTD.

Well No. WILKINSON WEST T2H4116 #4

Tool Pusher

Date JAN 31/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

 Drilled From _____ To 3198 Hole Made _____
 Drilled From _____ To 3198 Hole Made _____
 Drilled From _____ To _____ Hole Made _____

Bit No.		No. Sds. <u>47-5</u>	Length <u>2870.42</u>	Bit No.		No. Sds. <u>47-5</u>	Length <u>2870.42</u>	Bit No.		No. Sds.	Length
Serial No.		No. D.C.'s	Length <u>318.11</u>	Serial No.		No. D.C.'s <u>11</u>	Length <u>318.11</u>	Serial No.		No. D.C.'s	Length
Bit Size			Length	Bit Size			Length	Bit Size			Length
Bit Type			Length	Bit Type			Length	Bit Type			Length
Dr. from		Kelly in = <u>9.47</u>		Dr. from		Kelly in = <u>9.47</u>		Dr. from		Kelly in =	
Dr. to		TOTAL = <u>3198.00</u>		Dr. to		TOTAL = <u>3198.00</u>		Dr. to		TOTAL =	
Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom
Cored to		D.C.L.D. Top	Hrs. Off Bottom	Cored to		D.C.L.D. Top	Hrs. Off Bottom	Cored to		D.C.L.D. Top	Hrs. Off Bottom
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.
Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	REMARKS:	Depth	Deviation	Total Pipe on Lease	Jts.	REMARKS:
Depth	Deviation			Consumption	Depth	Deviation			<u>B.O.P.S</u>	Depth	Deviation			
Depth	Deviation				Depth	Deviation			<u>OPEN HOLE</u>	Depth	Deviation			
Depth	Deviation				Depth	Deviation			<u>O.K.</u>	Depth	Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size <u>7 1/4 x 14</u>	No. 2 Pump Size <u>5 x 10</u>	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size <u>7 1/4 x 14</u>	No. 2 Pump Size <u>5 x 10</u>
12							Liner Size <u>6 3/4</u>	Liner Size <u>5</u>	8							Liner Size <u>6 3/4</u>	Liner Size <u>5</u>
1							Water-Loss	Filter Cake	9							Water-Loss	Filter Cake
2									10								
3									11								
4									12								
5							Mud Added Sacks		1							Mud Added Sacks	
6							Chemicals Added Lbs.		2							Chemicals Added Lbs.	
7									3								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>W. SEMAR</u>	Core Bit	Driller <u>D. MANN</u>	Core Bit	Driller <u>B. BRISCOE</u>	Core Bit
Derrickman <u>L. SWAFFLEY</u>	Reaming Bit	Derrickman <u>D. BOESTIE</u>	Reaming Bit	Derrickman <u>L. WHITING</u>	Reaming Bit
Cat Headman <u>N. BERGSTREISER</u>	Core Cutters SF. HF.	Cat Headman <u>H. BOESTIE</u>	Core Cutters SF. HF.	Cat Headman <u>R. GRAY</u>	Core Cutters SF. HF.
Rotary Helper <u>C. REDRICKS</u>	Swab Cups	Rotary Helper <u>J. ALARY</u>	Swab Cups	Rotary Helper <u>T. NYHUS</u>	Swab Cups
Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers
Fireman <u>V.C. OLSEN</u>		Fireman <u>L. TRUSS</u>		Fireman <u>R. KIEM</u>	
Leaseman		Leaseman <u>J. GERBRANDT</u>		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
<u>LOGGING</u>	<u>12:00</u>	<u>8:00</u>	<u>LOGGING</u>	<u>8:00</u>	<u>10:45</u>			
			<u>WAIT ON ORDERS</u>	<u>10:45</u>	<u>1:00</u>	<u>CIRC. E COWI. 11:00</u>	<u>1:00</u>	<u>12:00</u>
			<u>RUN IN</u>	<u>1:00</u>	<u>2:30</u>			
			<u>CIRC.</u>	<u>2:30</u>	<u>4:00</u>			

Tool Pusher

Date JAN 30/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 3143 To 3166 Hole Made 23

Drilled From 3166 To 3186 Hole Made 20

Drilled From 3186 To 3198 Hole Made 12

Bit No.	12	13	No. Stds.	47	Length	2839.62	Bit No.	13	No. Stds.	47	Length	2839.62	Bit No.	13	No. Stds.	47-5	Length	2870.42
Serial No.	83163	D81253	No. D.C.'s	11	Length	318.11	Serial No.	D81253	No. D.C.'s	11	Length	318.11	Serial No.	D81253	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length		Bit Size	7 7/8			Length	
Bit Type	YM	YH			Length		Bit Type	YH			Length		Bit Type	YH			Length	
Dr. from	3095		Kelly in =			8.27	Dr. from	3166	Kelly in =			28.27	Dr. from	3166	Kelly in =			9.47
Dr. to	3166		TOTAL =			3166.00	Dr. to	3186	TOTAL =			3186.00	Dr. to	3186	TOTAL =			3198.00
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	4	Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	
Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	4	Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Reamed from			Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time	1 1/4	Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to			C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	1/4	Reamed to		C.S.G. Set at	167	Serv. Time	
Total Bit Footage	70		C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	20	C.S.G. Size	8 5/8	Rep. Time	1 3/4	Total Bit Footage	20	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	18		Pipe in Hole	94	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	4	Pipe in Hole	94	Jts.	REMARKS:	Bit Hrs.	4	Pipe in Hole	95	Jts.	REMARKS:
Table R.P.M.	85		Pipe on Racks	30	Jts.	Today	Table R.P.M.	80	Pipe on Racks	30	Jts.	CHECKED B&P	Table R.P.M.	80	Pipe on Racks	29	Jts.	

[illegible]

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAK	Core Bit	Serial	Driller	D. McNNIS	Core Bit	Serial	Driller	B. BRISCOE	Core Bit	Serial
Derrickman	A. SWEEZEY	Reaming Bit	Serial	Derrickman	D. BOSTIE	Reaming Bit	Serial	Derrickman	L. DSHAWING	Reaming Bit	Serial
Cat Headman	N. BERGSTREISER	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	B. GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	R. FREDRICKS	Swab	Swab Rubbers	Rotary Helper	J. ALARV	Swab Cups	Swab Rubbers	Rotary Helper	F. NYHUS	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	V. C. OLSEN			Fireman	L. TRUIS			Fireman	B. KLVM		
Leaseman				Leaseman	J. BERBRANDT			Leaseman			

[illegible]

Well No. WILKINSON WEST TATTLING #4

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 3117 To 3143 Hole Made 26

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	W. SEMAK		Core Bit		Serial	Driller	D. MOHNS		Core Bit		Serial	Driller	B. BRISCOE		Core Bit		Serial
Derrickman	L. SWEETLEY		Reaming Bit		Serial	Derrickman	D. BOGSTIE		Reaming Bit		Serial	Derrickman	L. WHITING		Reaming Bit		Serial
Cat Headman	N. BERGSTREISER		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	A. BOGSTIE		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	B. GRAY		Core Cutters SF. HF.		Core Catchers SF. HF.
Rotary Helper	G. FREDRICKS		Swab Cups		Swab Rubbers	Rotary Helper	J. ALARY		Swab Cups		Swab Rubbers	Rotary Helper	T. NYHUS		Swab Cups		Swab Rubbers
Rotary Helper						Rotary Helper						Rotary Helper					
Fireman	V. C. OLSEN					Fireman	L. TRUSS					Fireman	B. KLYM				
Leaseman						Leaseman	J. GERBRANDT					Leaseman					

[illegible]

GUTHRIE McLAREN DRILLING LTD.

Well No.

WILKINSON WAT TATNLING 42

Company Representative

B. Robertson
Tool Pusher

Date

Jan 28/61

Lsd.

Sec.

Twp.

Rge.

W.

Drilled From 2923 To 2971 Hole Made 48

Drilled From 2971 To 3005 Hole Made 34

Drilled From 3005 To 3059 Hole Made 54

Bit No.	10	No. Stds.	43-5	Length	2626.74	Bit No.	10	11	No. Stds.	44	Length	2657.27	Bit No.	11	No. Stds.	45	Length	2717.97
Serial No.	191837	No. D.C.'s		Length	318.11	Serial No.	191837	194126	No. D.C.'s	11	Length	318.11	Serial No.	194126	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length		Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length	
Bit Type	YS1			Length		Bit Type	YS1	YS1			Length		Bit Type	YS1			Length	
Dr. from	2860	Kelly in			26.15	Dr. from	2860	2985	Kelly in			2962	Dr. from	2985	Kelly in			22.92
Dr. to	2971	TOTAL			2971.00	Dr. to	2985	3005	TOTAL			3005.00	Dr. to	3059	TOTAL			3059.00
Cored from		D.C.O.D. Top	5 1/4	Hrs. On Bottom		Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/2
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1/2
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from			Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to			C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	1/4
Total Bit Footage	111	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	125	20	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	74	C.S.G. Size	8 5/8	Rep. Time	1/4
Bit Hrs.	17 1/4	Pipe in Hole	87	Jts.		Bit Hrs.	19 1/4	2 1/4	Pipe in Hole	88	Jts.		Bit Hrs.	9 3/4	Pipe in Hole	90	Jts.	
Table R.P.M.	100	Pipe on Racks	37	Jts.		Table R.P.M.	100	100	Pipe on Racks	36	Jts.		Table R.P.M.	100	Pipe on Racks	34	Jts.	

Depth	Deviation	Total Pipe on Lease	124	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	124	Jts.		Depth	Deviation	Total Pipe on Lease	124	Jts.	
Depth	Deviation				Consumption	Gals.	Depth	Deviation				Depth	Deviation				
Depth	Deviation						Depth	Deviation				Depth	Deviation				
Depth	Deviation						Depth	Deviation				Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	7 1/4 x 14	No. 2 Pump Size	5 x 10	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	7 1/4 x 14	No. 2 Pump Size	5 x 10
12	10.4	65	58	650	1/2	✓	Liner Size	6 3/4	Liner Size	5	8	10.4	61	58	650	✓		Liner Size	6 3/4	Liner Size	5
1	10.4	68	58	650	1/2	✓	Water-Loss		Filter Cake	PH	9	10.4	62	58	650	✓		Water-Loss		Filter Cake	PH
2	10.3	65	58	650	1/2	✓	H.O	1/32	12		10	10.4	64	58	650	✓		3.8	2/32	13.0	
3	10.3	65	58	650	1/2	✓			13.0		11										
4	10.3	63	58	650	1/2	✓			13.0		12										
5	10.3	60	58	650	1/2	✓	Mud Added Sacks	4 SACKS GEL			1							Mud Added Sacks	GEL 400#		
6	10.3	60	58	650	1/2	✓	Chemicals Added Lbs.	200# SPERSENE			2	10.3	70	58	650	✓		Chemicals Added Lbs.	200# SPERSENE 50#		
7	10.3	63	58	650	1/2	✓		200# CAUSTIC			3	10.3	81	68	650	✓					

CREW				MATERIALS CHARGED TO OPERATOR				CREW				MATERIALS CHARGED TO OPERATOR				CREW				MATERIALS CHARGED TO OPERATOR			
Driller	B. BISCOE	Core Bit	Serial	Driller	W. SEMAK	Core Bit	Serial	Driller	D. MOHNS	Core Bit	Serial	Driller	D. MOHNS	Core Bit	Serial	Driller	D. MOHNS	Core Bit	Serial	Driller	D. MOHNS	Core Bit	Serial
Derrickman	L. WHITING	Reaming Bit	Serial	Derrickman	L. SWEETLEY	Reaming Bit	Serial	Derrickman	D. BOGSTIE	Reaming Bit	Serial	Derrickman	D. BOGSTIE	Reaming Bit	Serial	Derrickman	D. BOGSTIE	Reaming Bit	Serial	Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	B. GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	N. BERG-STREISER	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	T. NYHUS	Swab Cups	Swab Rubbers	Rotary Helper	C. FREDRICKS	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers
Fireman	P. KLYNN			Fireman	V. C. OLSEN			Fireman	L. TRUSS			Fireman	L. TRUSS			Fireman	L. TRUSS			Fireman	L. TRUSS		
Leaseman				Leaseman	J. GERBRANDT			Leaseman				Leaseman				Leaseman				Leaseman			

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
Drilling	12:01	7:45	RIG SERVICE	8:00	8:15	RIG SERVICE	4:00	4:15
WORK ON AIR COMP.	7:45	8:00	DRILL	8:15	9:15	DRILLING	4:15	8:15
			WORK ON AIR COMP.	9:15	9:30	WORK ON AIR LINE	8:15	8:30
			DRILL	9:30	10:30	DRILLING	8:30	12:00
			DROPSURVEY HOIST FOR BIT	10:30				
			CHECK B.O.P.'S OPEN HOLE OK.		12:30			
			RUN IN W/ BIT	12:30	1:45			
			DRILL	1:45	4:00			

GUTHRIE McLAREN DRILLING LTD.

Well No. WILKINSON WEST TATHALING

LAKE 42

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Date JAN 27/6-Drilled From 2856 To 2860 Hole Made 4Drilled From 2860 To 2872 Hole Made 12Drilled From 2872 To 2923 Hole Made 51

Bit No. <u>9</u>	No. Stds. <u>41-5</u>	Length <u>2505.79</u>	Bit No. <u>10</u>	No. Stds. <u>42</u>	Length <u>2535.87</u>	Bit No. <u>10</u>	No. Stds. <u>43</u>	Length <u>2596.77</u>
Serial No. <u>904102</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>	Serial No. <u>191837</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>	Serial No. <u>191837</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>
Bit Size <u>7 7/8</u>		Length	Bit Size <u>7 7/8</u>		Length	Bit Size <u>7 7/8</u>		Length
Bit Type <u>451</u>		Length	Bit Type <u>451</u>		Length	Bit Type <u>451</u>		Length
Dr. from <u>273:</u>	Kelly in = <u>36.10</u>		Dr. from <u>2860</u>	Kelly in = <u>1802</u>		Dr. from <u>2860</u>	Kelly in = <u>8.12</u>	
Dr. to <u>2860</u>	TOTAL = <u>2865.00</u>		Dr. to <u>2872</u>	TOTAL = <u>2872.00</u>		Dr. to <u>2923</u>	TOTAL = <u>2923.00</u>	
Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom		Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom		Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom	
Cored to	D.C.I.D. Top <u>2 7/8</u> Hrs. Off Bottom		Cored to	D.C.I.D. Top <u>2 7/8</u> Hrs. Off Bottom		Cored to	D.C.I.D. Top <u>2 7/8</u> Hrs. Off Bottom	
Reamed from	Pipe Size <u>4 1/2</u> Trip Time		Reamed from	Pipe Size <u>4 1/2</u> Trip Time		Reamed from	Pipe Size <u>4 1/2</u> Trip Time	
Reamed to	C.S.G. Set at <u>167</u> Serv. Time		Reamed to	C.S.G. Set at <u>167</u> Serv. Time		Reamed to	C.S.G. Set at <u>167</u> Serv. Time	
Total Bit Footage <u>130</u>	C.S.G. Size <u>8 5/8</u> Rep. Time		Total Bit Footage <u>12</u>	C.S.G. Size <u>8 5/8</u> Rep. Time		Total Bit Footage <u>63</u>	C.S.G. Size <u>8 5/8</u> Rep. Time	
Bit Hrs. <u>19 1/4</u>	Pipe in Hole <u>83</u> Jts.	Diesel Fuel Meter Reading	Bit Hrs. <u>13 1/4</u>	Pipe in Hole <u>84</u> Jts.	REMARKS:	Bit Hrs. <u>9 1/2</u>	Pipe in Hole <u>86</u> Jts.	REMARKS:
Table R.P.M. <u>110</u>	Pipe on Racks <u>41</u> Jts.	Today	Table R.P.M. <u>110</u>	Pipe on Racks <u>40</u> Jts.		Table R.P.M. <u>110</u>	Pipe on Racks <u>38</u> Jts.	

Depth <u>2860</u> Deviation <u>1/2</u>	Total Pipe on Lease <u>124</u> Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease <u>124</u> Jts.	Yesterday
Depth	Deviation	Consumption	Gals.	Depth	Deviation	
Depth	Deviation			Depth	Deviation	
Depth	Deviation			Depth	Deviation	

Deviation																		
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12							7 1/4 x 14	5 x 10	8							7 1/4 x 14	5 x 10	
1							Liner Size 6 3/4	Liner Size 5	9							Liner Size 6 3/4	Liner Size 5	
2							Water-Loss	Filter Cake	PH	10						Water-Loss	Filter Cake	PH
3										11								
4										12								
5							Mud Added Sacks									Mud Added Sacks		
6							Chemicals Added Lbs.									Chemicals Added Lbs.		
7																		

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>B. BISCOE</u>	Core Bit	Driller <u>W. SEMAR</u>	Core Bit	Driller <u>D. MOHNS</u>	Core Bit
Derrickman <u>L. WHITING</u>	Reaming Bit	Derrickman <u>L. SWEETEV</u>	Reaming Bit	Derrickman <u>D. BOGSTIE</u>	Reaming Bit
Cat Headman <u>M. GARD</u>	Core Cutters SF. HF.	Cat Headman <u>N. BERGSTREISER</u>	Core Cutters SF. HF.	Cat Headman <u>H. BOGSTIE</u>	Core Cutters SF. HF.
Rotary Helper <u>M. VANDUS</u>	Swab Cups	Rotary Helper <u>G. FREDRICKS</u>	Swab Cups	Rotary Helper <u>S. ALARY</u>	Swab Cups
Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers
Fireman <u>H. KLYM</u>		Fireman <u>V.C. OLSEN</u>		Fireman <u>L. TRUSS</u>	
Leaseman		Leaseman <u>J. GERBRANDT</u>		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
DRILLING	1200	100	TESTING	900	945	RIP SERVICE	4:00	4:15
GIRL	100	200	BREAK DOWN TESTING HEAD	945	1000	DRILLING	4:15	12:00
DRED SURVEY	200	215	HOIST PACKER	1000	1200			
HOISTING & STRAP PIPE	215	330	BREAK & DOWN TESTING TOOL	1200	100			
MAKE UP TESTING TOOL	330	530	RUN IN W/ BIT	100	215			
RUN IN SHOW & PICK UP SIX SINGLES	530	645	DRILL	215	400			
MAKE UP TESTING HEAD	645	800						
& WAIT ON DAYLIGHT								
MEASUREMENT - 2506.46								
PIPE TALLY - 2505.79								
DIFF - .67								
CHECKED BOPS - OK								

Bit No.	8	9	No. Stds.	40	Length	2415.48	Bit No.	9	No. Stds.	41	Length	2475.62	Bit No.	9	No. Stds.	41-S	Length	2505.79																																																																																									
Serial No.	004903	904102	No. D.C.'s	11	Length	318.11	Serial No.	904102	No. D.C.'s	11	Length	318.11	Serial No.	904102	No. D.C.'s	11	Length	318.11																																																																																									
Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length		Bit Size	7 7/8			Length																																																																																										
Bit Type	YT	YSI			Length		Bit Type	YSI			Length		Bit Type	YSI			Length																																																																																										
Dr. from	2650	2730	Kelly in =		24.41		Dr. from	2730	Kelly in =		15.27		Dr. from	2730	Kelly in =		32.10																																																																																										
Dr. to	2730	2759	TOTAL =		2759.00		Dr. to	2810	TOTAL =		2810.00		Dr. to	2856	TOTAL =		2856.00																																																																																										
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom																																																																																										
Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom																																																																																										
Reamed from			Pipe Size	4 1/2	Trip Time	3	Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time																																																																																										
Reamed to			C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time																																																																																										
Total Bit Footage	80	29	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	80	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	126	C.S.G. Size	8 5/8	Rep. Time																																																																																										
Bit Hrs.	15	3 1/2	Pipe in Hole	80	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	10 3/4	Pipe in Hole	82	Jts.	REMARKS:	Bit Hrs.	18 1/4	Pipe in Hole	83	Jts.	REMARKS:																																																																																									
Table R.P.M.	130	130	Pipe on Racks	44	Jts.	Today	Table R.P.M.	120	Pipe on Racks	42	Jts.	CHECK BOP	Table R.P.M.	110	Pipe on Racks	41	Jts.																																																																																										
Depth	Deviation	Total Pipe on Lease	124 Jts.	Yesterday			Depth	Deviation	Total Pipe on Lease	124 Jts.			Depth	Deviation	Total Pipe on Lease	124 Jts.																																																																																											
Depth	Deviation			Consumption	Gals.		Depth	Deviation					Depth	Deviation																																																																																													
Depth	Deviation						Depth	Deviation					Depth	Deviation																																																																																													
Depth	Deviation						Depth	Deviation					Depth	Deviation																																																																																													
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size																																																																																	
12	11.1	70	58	650	3/4	✓	7 1/4 x 14	5 x 10	8	11.0	62	58	650	✓	✓	7 1/4 x 14	5 x 10	4	10.7	65	58	650	1/2	✓	7 1/4 x 14	5 x 10																																																																																	
1	11.1	66	58	650	3/4	✓	6 3/4	5	9	11.0	64	58	650	✓	✓	6 3/4	5	5	10.7	63	58	650	1/2	✓	6 3/4	5																																																																																	
2							Water-Loss	Filter Cake	PH	10	11.0	60	58	650	✓	✓	3.8	13.0	6	10.6	60	58	650	1/2	✓	3.8	13.0																																																																																
3	TRIP								11	11.0	58	58	650	✓	✓			7	10.6	65	58	650	1/2	✓	3.4	12.5																																																																																	
4							4.0	1/32	12.0	12	10.9	65	58	650	✓	✓	3.1	12.5	8	10.5	70	58	650	1/2	✓																																																																																		
5	11.1	65	58	650	3/4	✓	Mud Added Sacks	6 SACKS GEL	1	10.8	74	58	650	✓	✓	Mud Added Sacks	6 SACKS GEL	9	10.5	75	58	650	1/2	✓	Mud Added Sacks	6 SACKS GEL																																																																																	
6	11.1	60	58	650	3/4	✓	Chemicals Added Lbs.	150# CAUSTIC	2	10.8	75	58	650	✓	✓	Chemicals Added Lbs.	150# CAUSTIC	10	10.6	75	58	650	1/2	✓	Chemicals Added Lbs.	150# CAUSTIC																																																																																	
7	10.9	83	58	650	3/4	✓		150# SPERSENE	3	10.8	73	58	650	✓	✓		150# SPERSENE	11	10.6	75	58	650	1/2	✓		150# SPERSENE																																																																																	
CREW	MATERIALS CHARGED TO OPERATOR																	CREW	MATERIALS CHARGED TO OPERATOR																	CREW	MATERIALS CHARGED TO OPERATOR																																																																						
Driller	B. B. BISCOE																	Driller	W. SEMAK																	Driller	D. MCNUS																																																																						
Derrickman	C. WHITING																	Derrickman	H. SWELEY																	Derrickman	D. BOESTLE																																																																						
Cat Headman	B. GARY																	Cat Headman	N. BERGSTREISER																	Cat Headman	H. BOESTLE																																																																						
Rotary Helper	T. NYHUS																	Rotary Helper	C. FREDRICKS																	Rotary Helper	J. BLARV																																																																						
Rotary Helper																		Rotary Helper																		Rotary Helper																																																																							
Fireman	B. KLYM																	Fireman	V.C. OLSEN																	Fireman	B. FRIESE																																																																						
Leaseman																		Leaseman	J. GERBRANDT																	Leaseman																																																																							
REMARKS	FROM TO																	REMARKS	FROM TO																	REMARKS	FROM TO																																																																						
DRILLING																		1200 130																		DRILLING																		800 945																		RIP SERVO																		4:00 4:15																	
TRIP FOR BIT																		130 430																		SERVICE CHECK BOP																		945 1000																		DRILLING																		4:15 9:30																	
DRILLING																		430 800																		DRILLING																		1000 230																		WORK ON PUMP																		9:30 9:45																	
																																				CIRC SAMPLE 1/2 HR																		230 300																		DRILLING																		9:45 12:00																	
																																				DRILL																		300 400																																																					

Well No. WILKINSON W. FATHIMA LAKE 4#

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

Date JAN 25/61

Drilled From 2607 To 2650 Hole Made 43

Drilled From 2650 To 2690 Hole Made 40

Drilled From 2690 To 2725 Hole Made 35

Bit No.	7	No. Stds.	38	Length	2294.14	Bit No.	8	No. Stds.	39	Length	2354.53	Bit No.	9	No. Stds.	39-5	Length	2384.78
Serial No.	562892	No. D.C.'s	11	Length	318.11	Serial No.	001903	No. D.C.'s	11	Length	318.11	Serial No.	001915	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8			Length		Bit Size	7 7/8			Length		Bit Size	7 7/8			Length	
Bit Type	YT1			Length		Bit Type	YT			Length		Bit Type	YT			Length	
Dr. from	2452	Kelly in =		37.75		Dr. from	2650	Kelly in =		17.36		Dr. from	2650	Kelly in =		22.11	
Dr. to	2650	TOTAL =		2650.00		Dr. to		TOTAL =		2690.00		Dr. to	2725	TOTAL =		2725.00	
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4
Cored to		D.C.I.D. Top	27 1/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	27 1/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	27 1/8	Hrs. Off Bottom	1/4
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	1/4
Total Bit Footage	198	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	40	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	75	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	15 3/4	Pipe in Hole	76	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	5 3/4	Pipe in Hole	78	Jts.	REMARKS:	Bit Hrs.	13 1/2	Pipe in Hole	79	Jts.	REMARKS:
Table R.P.M.	125	Pipe on Racks	48	Jts.	Today	Table R.P.M.	120	Pipe on Racks	46	Jts.		Table R.P.M.	110	Pipe on Racks	45	Jts.	

Depth <u>2650</u> Deviation <u>1/2°</u> Total Pipe on Lease <u>124 Jts.</u>							Yesterday							Total Pipe on Lease <u>124 Jts.</u>							Depth Deviation Total Pipe on Lease <u>124 Jts.</u>								
Depth Deviation							Consumption Gals.							Depth Deviation							Depth Deviation								
Depth Deviation														Depth Deviation							Depth Deviation								
Depth Deviation														Depth Deviation							Depth Deviation								
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size <u>7 1/4 X 14</u>	No. 2 Pump Size <u>5 X 10</u>	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size <u>7 1/4 X 14</u>	No. 2 Pump Size <u>5 X 10</u>			
12	11.2	56	58	650	Y	✓	Liner Size <u>6 3/4</u>	Liner Size <u>5</u>	8	4.1						Liner Size	Liner Size	4	11.1	75	58	650	1/2	✓	Liner Size <u>6 3/4</u>	Liner Size <u>5</u>			
1	11.2	60	58	650	Y	✓	Water-Loss	Filter Cake	PH	9	4.1					Water-Loss	Filter Cake	PH	5	11.1	65	58	650	2/3	✓	Water-Loss	Filter Cake	PH	
2	11.2	63	58	650	Y	✓	4.0	2 3/2	13.0	10	11.1	49	54	650		5.4	2 3/2	13.0	6	11.1	60	58	650	2/3	✓				
3	11.2	50	58	650	Y	✓				11	11.1	50	54	650					7	11.1	65	58	650	2/3	✓	4.4	2 3/2	13.0	
4	11.2	50	58	650	Y	✓				12	11.1	60	58	650	✓	4.6		13.0	8	11.1	65	58	650	2/3	✓	4.0	2 3/2	13.0	
5	11.8	48	58	650	Y	✓	Mud Added Sacks <u>45A X3 GEL</u>		1	11.1	59	58	650	✓	✓	Mud Added Sacks <u>MY-LO-GEL 50#</u>			9	11.0	70	58	650	2/3	✓	Mud Added Sacks <u>GEL 5 3A X5</u>			
6							Chemicals Added Lbs. <u>100# MY-LO-GEL 100# CAUSTIC</u>		2	11.1	57	54	650		✓	Chemicals Added Lbs.			10	11.0	70	58	650	2/3	✓	Chemicals Added Lbs. <u>MY-LO-GEL 65A X5</u>			
7							<u>100# SPERSENE</u>		3	11.2	55	58	650		✓				11	11.0	70	58	650	2/3	✓				

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BISCOE	Core Bit	Serial	Driller	W. SEMAK	Core Bit	Serial	Driller	D. MANN	Core Bit	Serial
Derrickman	B. WHITING	Reaming Bit	Serial	Derrickman	L. SCOFFLEY	Reaming Bit	Serial	Derrickman	D. BOESTIE	Reaming Bit	Serial
Cat Headman	B. GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	N. BERGSTRUISER	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOESTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	T. RYHUS	Swab Cups	Swab Rubbers	Rotary Helper	C. FREDRICKS	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	B. KLYM			Fireman	V. C. OLSEN			Fireman	L. TRUSS		
Leaseman				Leaseman	J. GERBRANDT			Leaseman			

[illegible]

Well No. Wilkins W. TET HING LAKE 47

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

Date JAN 24/61

Drilled From 2170 To 2420 Hole Made 250

Drilled From 2420 To 2531 Hole Made 111

Drilled From 2531 To 2607 Hole Made 76

Bit No.	6	No. Stds.	34-5	Length	2054.32	Bit No.	6	7	No. Stds.	36	Length	2173.64	Bit No.	7	No. Stds.	37-5	Length	2264.09
Serial No.	001114	No. D.C.'s	11	Length	318-11	Serial No.	001114	802872	No. D.C.'s	11	Length	318-11	Serial No.	802872	No. D.C.'s	11	Length	318-11
Bit Size	7 7/8			Length		Bit Size	7 7/8	7 1/4			Length		Bit Size	7 7/8			Length	
Bit Type	YT3			Length		Bit Type	YT3	YT1			Length		Bit Type	YT1			Length	
Dr. from	1888	Kelly in =				Dr. from	1888	2452	Kelly in =		39.25		Dr. from	2452	Kelly in =		2480	
Dr. to	2420	TOTAL =				Dr. to	2452	2531	TOTAL =		2531.00		Dr. to	2607	TOTAL =		2607.00	
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4	Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7
Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom	11 1/4	Cored to			D.C.I.D. Top	27 1/2	Hrs. Off Bottom		Cored to		D.C.I.D. Top	27 1/2	Hrs. Off Bottom	1
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from			Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to			C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	
Total Bit Footage	532	C.S.G. Size	8 5/8	Rep. Time	Survey 11 1/4	Total Bit Footage	564	79	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	155	C.S.G. Size	8 5/8	Rep. Time	1
Bit Hrs.	18 1/2	Pipe in Hole	69	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	193 1/4	33 1/4	Pipe in Hole	72	Jts.	REMARKS:	Bit Hrs.	10 3/4	Pipe in Hole	75	Jts.	REMARKS:
Table R.P.M.	150	Pipe on Racks	55	Jts.	Today 3' 10"	Table R.P.M.	150	150	Pipe on Racks	52	Jts.		Table R.P.M.	125	Pipe on Racks	49	Jts.	

Depth	Deviation	Total Pipe on Lease	Yesterday	Depth	Deviation	Total Pipe on Lease	Depth	Deviation	Total Pipe on Lease
2410	34"	124 Jts.				124 Jts.			124 Jts.
Depth	Deviation		Consumption	Gals.	Depth	Deviation	Depth	Deviation	
Depth	Deviation				Depth	Deviation	Depth	Deviation	
Depth	Deviation				Depth	Deviation	Depth	Deviation	
Depth	Deviation				Depth	Deviation	Depth	Deviation	

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	10.9	58	58	650	1/2	✓	7 1/4 x 14	5 x 10	8	11.2	62	58	700			7 1/4 x 14	5 x 10	4	11.2	75	58	700	2 1/2		7 1/4 x 14	5 x 10
1	10.9	65	58	650	1/2	✓	Liner Size 6 3/4	Liner Size 5	9	11.2	61	58	700			Liner Size 6 3/4	Liner Size 5	5	11.3	75	58	700	3 1/2	✓	Liner Size 6 3/4	Liner Size 5
2	10.9	60	58	650	1/2	✓	Water-Loss	Filter Cake	10							Water-Loss	Filter Cake	6	11.2	75	58	700	2 1/2	✓	Water-Loss	Filter Cake
3	10.9	63	58	650	1/2	✓	3.0	12.0	11							5.2	13.0	7	11.4	80	58	700	3 1/2	✓	5.0	12.5
4	11.1	68	58	650	1/2	✓		13.0	12									8	11.2	75	58	700	3 1/2	✓	4.2	13.0
5	11.1	83	58	650	1/2	✓	Mud Added Sacks		1	11.1	50	58	700			Mud Added Sacks 300# GEL		9	11.2	75	58	700	3 1/2	✓	Mud Added Sacks	
6	11.1	75	58	650	1/2	✓	Chemicals Added Lbs.	200# CAUSTIC	2	11.1	51	58	700			Chemicals Added Lbs.		10	11.2	70	58	700	3 1/2	✓	Chemicals Added Lbs.	
7	11.2	68	58	650	1/2	✓	200# SPERSENE		3	11.1	52	58	700					11	11.2	65	58	700	2 1/2	✓		

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller		Core Bit	Serial	Driller		Core Bit	Serial	Driller		Core Bit	Serial
Derrickman	B. BAILEY	Reaming Bit	Serial	Derrickman	W. JEDAK	Reaming Bit	Serial	Derrickman	D. MANN	Reaming Bit	Serial
Cat Headman	L. WHITING	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	L. SWEETLEY	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	D. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	H. GRAY	Swab Cups	Swab Rubbers	Rotary Helper	N. NIERSTRILSER	Swab Cups	Swab Rubbers	Rotary Helper	H. BOGSTIE	Swab Cups	Swab Rubbers
Rotary Helper	T. NYHUS			Rotary Helper	G. FREDRICKS			Rotary Helper	J. ALARY		
Fireman	A. RLYM			Fireman	V. C. OLSEN			Fireman	L. TRUSS		
Leaseman				Leaseman	J. GERBRANDT			Leaseman			

[illegible]

Tool Pusher

Date JAN 23/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 1610 To 1855 Hole Made 245Drilled From 1855 To 1976 Hole Made 121Drilled From 1976 To 2170 Hole Made 194

Bit No. <u>5</u>	No. Stds. <u>25</u>	Length <u>512.23</u>	Bit No. <u>5</u>	No. Stds. <u>27</u>	Length <u>1633.55</u>	Bit No. <u>6</u>	No. Stds. <u>30</u>	Length <u>1815.69</u>
Serial No. <u>901860</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>	Serial No. <u>901860/00114</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>	Serial No. <u>00114</u>	No. D.C.'s <u>11</u>	Length <u>318.11</u>
Bit Size <u>7 7/8</u>		Length	Bit Size <u>7 7/8</u>		Length	Bit Size <u>7 7/8</u>		Length
Bit Type <u>4T1</u>		Length	Bit Type <u>4T1</u>		Length	Bit Type <u>4T3</u>		Length
Dr. from <u>1390</u>	Kelly in = <u>24.66</u>		Dr. from <u>1390</u>	Kelly in = <u>24.34</u>		Dr. from <u>1888</u>	Kelly in = <u>36.20</u>	
Dr. to <u>1855</u>	TOTAL = <u>1855.00</u>		Dr. to <u>1888</u>	TOTAL = <u>1976.00</u>		Dr. to <u>2170</u>	TOTAL = <u>2170.00</u>	
Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom <u>7 1/2</u>		Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom <u>5 1/2</u>		Cored from	D.C.O.D. Top <u>6 1/4</u> Hrs. On Bottom <u>6 3/4</u>	
Cored to	D.C.I.D. Top <u>27 1/2</u> Hrs. Off Bottom <u>1/2</u>		Cored to	D.C.I.D. Top <u>27 1/2</u> Hrs. Off Bottom <u>3 1/2</u>		Cored to	D.C.I.D. Top <u>27 1/2</u> Hrs. Off Bottom <u>1 1/4</u>	
Reamed from	Pipe Size <u>4 1/2</u> Trip Time		Reamed from	Pipe Size <u>4 1/2</u> Trip Time <u>2</u>		Reamed from	Pipe Size <u>4 1/2</u> Trip Time	
Reamed to	C.S.G. Set at <u>167</u> Serv. Time <u>1/4</u>		Reamed to	C.S.G. Set at <u>167</u> Serv. Time <u>1/4</u>		Reamed to	C.S.G. Set at <u>167</u> Serv. Time <u>1/4</u>	
Total Bit Footage <u>445</u>	C.S.G. Size <u>8 5/8</u> Rep. <u>Survey</u> <u>1/4</u>		Total Bit Footage <u>498</u>	C.S.G. Size <u>8 5/8</u> Rep. <u>Survey</u> <u>1/4</u>		Total Bit Footage <u>282</u>	C.S.G. Size <u>8 5/8</u> Rep. Time <u>1</u>	
Bit Hrs. <u>163 1/4</u>	Pipe in Hole <u>50</u> Jts. Diesel Fuel Meter Reading		Bit Hrs. <u>183 1/4</u>	Pipe in Hole <u>54</u> Jts. REMARKS:		Bit Hrs. <u>103 1/4</u>	Pipe in Hole <u>60</u> Jts. REMARKS:	
Table R.P.M. <u>150</u>	Pipe on Racks <u>74</u> Jts. Today <u>4' 7"</u>		Table R.P.M. <u>150</u>	Pipe on Racks <u>70</u> Jts.		Table R.P.M. <u>150</u>	Pipe on Racks <u>64</u> Jts.	

Depth 1630 Deviation 1/4 Total Pipe on Lease 124 Jts. Yesterday 30"

Depth _____ Deviation _____ Consumption _____ Gala. _____

Depth _____ Deviation _____

Depth _____ Deviation _____

Depth _____ Deviation _____

Time Wt. Vis. Pump Stroke Pump Pressure Pit Gauge Water Added No. 1 Pump Size 7 1/4 X 1 1/4 No. 2 Pump Size 5 X 1012 10.9 63 58 650 1/2 ✓ Liner Size 6 3/4 Liner Size 51 10.8 67 58 650 1/2 ✓ Water-Loss Filter Cake PH2 10.8 70 58 650 1/2 ✓ 4.2 1/32 13.03 10.8 75 58 650 1/2 ✓ 13.04 10.9 94 58 650 1/2 ✓ Mud Added Sacks 250# CAUSTIC5 10.8 80 58 650 1/2 ✓ Chemicals Added Lbs. 200# SPERSENE6 10.8 74 58 650 1/2 ✓7 10.8 75 58 650 1/2 ✓

CREW MATERIALS CHARGED TO OPERATOR

Driller B. BRISCOE Core Bit SerialDerrickman L. WHITING Reaming Bit SerialCat Headman B. GARY Core Cutters SF. HF. Core Catchers SF. HF.Rotary Helper T. NYHUS Swab Cups Swab Rubbers

Rotary Helper

Fireman B. H. LYNN

Leaseman

REMARKS FROM TO

R.G. SERVICE & SURVEY. 1200 1230Drilling. 1230 400DRILL 800 830HIGHEST FOR BIT RUN IN CHECK B.O.P. OK 1000 1200DRILL 1200 400DRILLING 7:45 9:45TIGHTEN SWIVEL PACKING 9:45 10:00DRILLING 10:00 12:00BRACE PIPE ON DOUBLECHANGED OIL STANBY PUMP MOTORCLEANED SAND TRAP

Well No. WILKINSON WEST TATHLEZING
CRK. 4TH

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Tool Pusher

Date JAN 22/61

Drilled From 1180 To 1352 Hole Made 172

Drilled From 1352 To 1412 Hole Made LO

Drilled From 1412 To 1610 Hole Made 198

Bit No.	4	No. Stds.	16-5	Length	998.61	Bit No.	4	5	No. Stds.	17-5	Length	1059.30	Bit No.	5	No. Stds.	21	Length	1270.91					
Serial No.	905624	No. D.C.'s	11	Length	318.11	Serial No.	905624	901800	No. D.C.'s	11	Length	318.11	Serial No.	901800	No. D.C.'s	11	Length	318.11					
Bit Size	7 7/8			Length		Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length						
Bit Type	YT			Length		Bit Type	YT	YT1			Length		Bit Type	YT1			Length						
Dr. from	1150	Kelly in =		35.28		Dr. from	1150	1390	Kelly in =		34.39		Dr. from	1390	Kelly in =		20.98						
Dr. to		TOTAL =		1352.00		Dr. to	1390	1412	TOTAL =		1415.00		Dr. to	1610	TOTAL =		1610.00						
Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 1/2	Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	7 3/4					
Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1 1/2	Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1 1/4					
Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from			Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time						
Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to			C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	1 1/4					
Total Bit Footage	202	C.S.G. Size	8 3/4	Rep. Time	1 1/2	Total Bit Footage	240	22	C.S.G. Size	8 3/4	Rep. Time		Total Bit Footage	220	C.S.G. Size	8 5/8	Rep. Time						
Bit Hrs.	9	Pipe in Hole	33	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	13 1/4	1 1/2	Pipe in Hole	35	Jts.	REMARKS:	Bit Hrs.	9 1/4	Pipe in Hole	42	Jts.	REMARKS:					
Table R.P.M.	150	Pipe on Racks	91	Jts.	Today	30"	Table R.P.M.	150	150	Pipe on Racks	89	Jts.		Table R.P.M.	150	Pipe on Racks	82	Jts.					
Depth	Deviation	Total Pipe on Lease	124	Jts.	Yesterday	36"	Depth	1377	Deviation	2"	Total Pipe on Lease	124	Jts.	Depth	Deviation	Total Pipe on Lease	124	Jts.					
Depth	Deviation				Consumption	Gals.	Depth		Deviation					Depth	Deviation								
Depth	Deviation						Depth		Deviation					Depth	Deviation								
Depth	Deviation						Depth		Deviation					Depth	Deviation								
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	7 1/4 x 14	No. 2 Pump Size	5 x 10	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	7 1/4 x 14	No. 2 Pump Size	5 x 10		
12	10.6	58	58	550	3/2	✓	Liner Size	6 3/4	Liner Size	5	8	10.8	58	58	550	✓	Liner Size	6 3/4	Liner Size	5			
1	10.7	59	58	550	1/2	✓	Water-Loss	Filter Cake	PH		9	10.7	60	58	550		Water-Loss	Filter Cake	PH				
2	10.6	43	58	550	1/2	✓	5.2	3/32	12.5		10	10.7	71	58	550		7	3/32	12.5				
3	10.6	53	58	550	2/3	✓					11	10.7	68	58	550								
4	10.5	60	58	550	2/3	✓					12	10.7	70	58	550								
5	10.5	68	58	550	2/3	✓	Mud Added Sacks	6 SACKS GEL			1		TRIP			Mud Added Sacks	GEL 800#						
6	10.5	55	58	550	2/3	✓	Chemicals Added Lbs.	100# SPERASENE			2					Chemicals Added Lbs.	STARCH 50#						
7	10.7	53	58	550	2/3	✓	50# C.M.C. 75# CAUSTIC				3	10.7	75	58	550								
CREW						MATERIALS CHARGED TO OPERATOR						CREW						MATERIALS CHARGED TO OPERATOR					
Driller	B. BAI SCOE					Core Bit	Serial					Driller	W. SEMAK					Core Bit	Serial				
Derrickman	L. WHITING					Reaming Bit	Serial					Derrickman	L. SWEETLEY					Reaming Bit	Serial				
Cat Headman	B. GRAY					Core Cutters SF. HF.	Core Catchers SF. HF.					Cat Headman	N. BERGSTREISER					Core Cutters SF. HF.	Core Catchers SF. HF.				
Rotary Helper	T. NYHUS					Swab Cups	Swab Rubbers					Rotary Helper	C. FREDRICKS					Swab Cups	Swab Rubbers				
Rotary Helper												Rotary Helper											
Fireman	H. KLYM											Fireman	V.C. OLSEN										
Leaseman												Leaseman											
REMARKS						FROM	TO					REMARKS						FROM	TO				
DRILLING						12"	100					SERVICE RIG & CHECK BOPS						8:00	8:15				
WORK ON KELLY GUIL.						1:00	1:30					DRILL						8:15	12:30				
DRILLING						1:30	8:00					SURVEY/LOGIST FOR BIT CHECK BOPS OPEN HOLE						12:30	2:30				
												DRILL						2:30	4:00				

Company Representative

B. Richardson
Tool Pusher

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 1085 To 1180 Hole Made 95

Section 1													Section 2														
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12	9.2	90	58	300	1/2		7 1/4 x 14	5 x 10	8	10.4	73	58	350	1/2		7 1/4 x 14	5 x 10	4	9.5	62	58	450			7 1/4 x 14	5 x 10	
							Liner Size 6 3/4	Liner Size 5								Liner Size 6 3/4	Liner Size 5								Liner Size 6 3/4	Liner Size 5	
1	9.2	85	58	300	1/2		Water-Loss	Filter Cake	9	10.3	58	58	350	1/2	✓	Water-Loss	Filter Cake	5	10.2	95	58	450		✓	Water-Loss	Filter Cake	PH
2	9.3	65	58	300	1/2		7.8	2 3/2	10	9.5	110	58	350	1/2	✓	6.0	2 3/2	6	10.6	118	58	450		✓	6.2	2 3/2	12.5
3	9.3	65	58	300	1/2				11	9.4	113	58	250	1/2	✓			7	10.5	68	58	450		✓			
4	TRIP								12	9.4	380	58	350	1/2	✓			8	10.5	70	58	450		✓			
5	9.4	65	58	300	1/2		Mud Added Sacks		1	9.8	90	58	300	1/2	✓	Mud Added Sacks 7 SA XS GEL		9		TRIP						Mud Added Sacks 600# GEL	
6	9.5	65	58	300	1/2		Chemicals Added Lbs.		2	9.5	60	58	300	1/2	✓	Chemicals Added Lbs. 165# CAUSTIC		10								Chemicals Added Lbs. 50# CAUSTIC	
7	9.5	65	58	300	1/2				3	10.3	48	58	300	1/2	✓	175# SPERSENE		11	10.5	65	58	450				50# SPERSENE	

[illegible]

Tool Pusher

Date JAN 20 / 61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 334 To 435 Hole Made 101

Drilled From 435 To 595 Hole Made 160

Drilled From 595 To 727 Hole Made 132

Bit No.	1	2	No. Stds.	1-5	Length	91.54	Bit No.	3	No. Stds.	4	Length	243.47	Bit No.	2	No. Stds.	6-5	Length	393.70
Serial No.	901911	905619	No. D.C.'s	11	Length	318.11	Serial No.	905619	No. D.C.'s	11	Length	318.11	Serial No.	905619	No. D.C.'s	11	Length	318.11
Bit Size	7 7/8	7 7/8			Length		Bit Size	7 7/8			Length		Bit Size	7 7/8			Length	
Bit Type	YT	YT			Length		Bit Type	YT			Length		Bit Type	YT			Length	
Dr. from	172	380	Kelly in =		25.35'		Dr. from	380	Kelly in =		33.42		Dr. from	380	Kelly in =		15.19	
Dr. to	380	435	TOTAL =		435.00		Dr. to	595	TOTAL =		595.00		Dr. to	727	TOTAL =		727.00	
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom	6 3/4	Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	
Cored to			D.C.I.D. Top	2 7/8	Hrs. Off Bottom	1 1/4	Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 7/8	Hrs. Off Bottom	
Reamed from			Pipe Size	4 1/2	Trip Time	1	Reamed from		Pipe Size	4 1/2	Trip Time		Reamed from		Pipe Size	4 1/2	Trip Time	
Reamed to			C.S.G. Set at	167	Serv. Time	1/4	Reamed to		C.S.G. Set at	167	Serv. Time		Reamed to		C.S.G. Set at	167	Serv. Time	
Total Bit Footage	208	55	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	215	C.S.G. Size	8 5/8	Rep. Time		Total Bit Footage	347	C.S.G. Size	8 5/8	Rep. Time	
Bit Hrs.	16	2 1/2	Pipe in Hole	3	Jts.	Diesel Fuel Meter Reading	Bit Hrs.	10	Pipe in Hole	8	Jts.	REMARKS:	Bit Hrs.	17 1/2	Pipe in Hole	13	Jts.	REMARKS:
Table R.P.M.	150	150	Pipe on Racks	121	Jts.	Today 40 INCHES	Table R.P.M.	150	Pipe on Racks	116	Jts.		Table R.P.M.	150	Pipe on Racks	111	Jts.	

Depth	Deviation	Total Pipe on Lease	124 Jts.	Yesterday	Depth	530	Deviation	3/4°	Total Pipe on Lease	124 Jts.	Depth	592	Deviation	1/2°	Total Pipe on Lease	124 Jts.
Depth	Deviation			Consumption	Gals.	Depth		Deviation			Depth		Deviation			
Depth	Deviation					Depth		Deviation			Depth		Deviation			
Depth	Deviation					Depth		Deviation			Depth		Deviation			

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12	9.2	80	58	250	1/2	✓	Liner Size 7 1/4 x 14	Liner Size 5 x 10	8	9.0	97	58	250	1/2	✓	Liner Size 7 1/4 x 14	Liner Size 5 x 10
1	9.0	95	58	250	1/2	✓	Water-Loss	Filter Cake	9	8.7	108	58	250	1/2	✓	Water-Loss	Filter Cake
2	9.0	90	58	250	1/2	✓		PH	10	8.1	120	58	250	1/2			PH
3	9.0	60	58	250	1/2				11	8.7	133	58	250	1/2			11.0
4	9.0	60	58	250	1/2				12	8.6	105	58	250	1/2			
5	Trip						Mud Added Sacks GEL 13 SACKS		1	8.5	90	58	250	1/2		Mud Added Sacks 0 SAX GEL	
6	9.0	58	58	250	1/2		Chemicals Added Lbs.		2	9.1	95	58	250	1/2		Chemicals Added Lbs. 150# CAUSTIC 150# SPERSENE	
7	9.2	60	58	250	1/2				3	8.2	140	58	250	1/2			

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	D. MOHNS		Core Bit		Serial	Driller	B. BRISCOE		Core Bit		Serial	Driller	W. SEMAK		Core Bit		Serial
Derrickman	D. BOESTIE		Reaming Bit		Serial	Derrickman	WHITING		Reaming Bit		Serial	Derrickman	W. SWEETZ		Reaming Bit		Serial
Cat Headman	H. BOESTIE		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	B. GRAY		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	N. BERGSTRAND		Core Cutters SF. HF.		Core Catchers SF. HF.
Rotary Helper	J. BLARY		Swab Cups		Swab Rubbers	Rotary Helper	N. HUGS		Swab Cups		Swab Rubbers	Rotary Helper	G. FREDRICKS		Swab Cups		Swab Rubbers
Rotary Helper						Rotary Helper						Rotary Helper					
Fireman	L. TRUSS					Fireman	B. KLYM					Fireman	V. C. OLSEN				
Leaseman						Leaseman	T. GERBRANT					Leaseman					

[illegible]

Company Representative
E. H. Harrison
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. WILKINSON Well 1000 A Lake 4th

Date Nov 18/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____ Drilled From _____ To _____ Hole Made _____

Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length	
Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	
Bit Size			Length	Bit Size			Length	Bit Size			Length	
Bit Type			Length	Bit Type			Length	Bit Type			Length	
Dr. from		Kelly in ==		Dr. from		Kelly in ==		Dr. from		Kelly in ==		
Dr. to		TOTAL ==		Dr. to		TOTAL ==		Dr. to		TOTAL ==		
Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	
Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom	Cored to		D.C.I.D. Top	Hrs. Off Bottom	
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	
Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	Diesel Fuel Meter Reading		Pipe in Hole	Jts.	REMARKS:		Pipe in Hole	Jts.	REMARKS:
Table R.P.M.		Pipe on Racks	Jts.	Today 30.11		Pipe on Racks	Jts.			Pipe on Racks	Jts.	

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday		Depth	Deviation	Total Pipe on Lease	Jts.			Depth	Deviation	Total Pipe on Lease	Jts.		
Depth	Deviation			Consumption	Gals.	Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				
Depth	Deviation					Depth	Deviation					Depth	Deviation				

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size			No. 2 Pump Size			Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size			No. 2 Pump Size						
12							Liner Size			Liner Size			8							Liner Size			Liner Size						
1							Water-Loss	Filter Cake	PH	9							Water-Loss	Filter Cake	PH	5							Water-Loss	Filter Cake	PH
2										10										6									
3										11										7									
4										12										8									
5							Mud Added Sacks			1							Mud Added Sacks			9							Mud Added Sacks		
6							Chemicals Added Lbs.			2							Chemicals Added Lbs.			10							Chemicals Added Lbs.		
7										3										11									

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	17 MOHNS	Core Bit	Serial	Driller	13 B. SCOT	Core Bit	Serial	Driller	LS JEMAK	Core Bit	Serial
Derrickman	12 BAGSTIE	Reaming Bit	Serial	Derrickman	6 WHITING	Reaming Bit	Serial	Derrickman	6 SWITZER	Reaming Bit	Serial
Cat Headman	14 BAGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	4 GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	N BIRGENSTADT	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	1 ALARM	Swab Cups	Swab Rubbers	Rotary Helper	1 NYHUS	Swab Cups	Swab Rubbers	Rotary Helper	6 FREORSS	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	1 THUSS			Fireman	1 ALYON			Fireman	1 D LSON		
Leaseman				Leaseman	1 GERBANT			Leaseman			

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
Ran 153-10 8 5/8 24K TSS			WOC	800	400	WOC	400	500
Casing Set @ 167.90						Shack Off Casing Nipple	500	
Cemented By Howco w/ 90 Sax						Up & Rig Up To Dig Rat		1200
Construction Cement 27 Gals						NOTE		
1220 H.P. To Top Casing Bore								
Job Completed 4/30 AM								
Hoist Casing & Rig To Run	1200	130				Cemented Around Top of Surface		
Casing						Casing w/ 90 Sax Cement & 1/2 Bag		
Run Casing	130	230				Calcium Chloride		
Cipe & Cement Casing	230	430						
WOC	430	800						

Well No. W. H. 10311 West TATH 10311

Date JAN 17/61

Drilled From _____ To 172 Hole Made _____

Bit No.	5A	No. Stds.	Length
Serial No.	BETIP	No. D.C.'s	Length 145.81
Bit Size	12 1/4	13 1/2 11 5/8	Length 2.80
Bit Type	OSC-3		Length
Dr. from	162	Kelly in =	23 39
Dr. to	172	TOTAL =	172.00
Cored from		D.C.O.D. Top	Hrs. On Bottom
		D.C.I.D. Top	Hrs. Off Bottom
Cored to			
Reamed from	56	Pipe Size	Trip Time
Reamed to	162	C.S.G. Set at	Serv. Time
Total Bit Footage	186	C.S.G. Size	Rep. Time
Bit Hrs.	5 3/4	Pipe in Hole	Jts. Diesel Fuel Meter Reading
Table R.P.M.	100	Pipe on Racks	Jts. Today

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	
Depth	Deviation			Consumption	Gals
Depth	Deviation				
	Deviation				

Depth		Deviation				No. 1 Pump Size		No. 2 Pump Size	
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added			
12		240					Liner Size 6 3/4	Liner Size	
1		295					Water-Loss	Filter Cake	
2		230							
3		290							
4		260							
5		THIP					Mud Added Sacks		
6		120					Chemicals Added Lbs.		
7		240							

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D MOHNS	Core Bit	Serial
Derrickman	D BOGSTIE	Reaming Bit	Serial
Cat Headman	L BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	J ALARY	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L THOSS		
Leaseman			

REMARKS	FROM	TO
DRILL HOLE TO BOTTOM	12'00	20
DRILLING 12 1/4 HOLE	2'00	34
CIRC	34'5	41
TRIPPING TO COND HOLE	41'5	50
FOR CASING & COND MED		

Bit No.			No. Stds.	Length
Serial No.			No. D.C.'s	Length
Bit Size				Length
Bit Type				Length
Dr. from			Kelly in ==	
Dr. to			TOTAL ==	
Cored from			D.C.O.D. Top	Hrs. On Bottom
Cored to			D.C.I.D. Top	Hrs. Off Bottom
Reamed from			Pipe Size	Trip Tin
Reamed to			C.S.G. Set at	Serv. Tin
Total Bit Footage			C.S.G. Size	Rep. Tin
Bit Hrs.			Pipe in Hole	Jts.
Table R.P.M.			Pipe on Racks	Jts.

Depth	160	Deviation	12	Total Pipe on Lease	Jts.
Depth		Deviation			
Depth		Deviation			
Depth		Deviation			

Time	Wt.	Vls.	Pump Stroke	Pump Pres- sure	Pit Gauge	Water Added	No. 1 Pump Size
8		180					Liner Size
9		63					Water-Loss
10		74					Filter
11		75					
12		80					
1	TO High To Tell						Mud Added Sacks
2							Chemicals Added Lbs.
3							

CREW		MATERIALS USED
Driller	B 13A15COE	Core Bit
Derrickman	J WHITING	Reaming Bit
Cat Headman	R GRAY	Core Cutters SF. HF.
Rotary Helper	T NYHUS	Swab Cups
Rotary Helper		
Fireman	B KLYM	
Leaseman	J GERBRANT	

REMARKS
DRIP SURVEY, HOIST, S IN HOLE COND MO TRY TO FREE COLL

NOTE
STUCK IN HOLE JUNE 6
OFF BOTTOM ABLE TO
WORK LENGTH OF KEEL
UNABLE TO KEEP HIGH

Bit No.	5A	No. Stds.		Length	
Serial No.	R-7110	No. D.C.'s	5	Length	145.51
Bit Size	12 1/4			Length	2 50
Bit Type	DSC-3			Length	
Dr. from		Kelly in =			23.39
Dr. to		TOTAL =			172.00
Cored from		D.C.O.D. Top		Hrs. On Bottom	
Cored to		D.C.I.D. Top		Hrs. Off Bottom	
Reamed from		Pipe Size		Trip Time	
Reamed to		C.S.G. Set at		Serv. Time	
Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.		Pipe on Racks	Jts.		
Depth	Deviation	Total Pipe on Lease	Jts.		

Depth	Deviation
Depth	Deviation
Depth	Deviation
Depth	Deviation

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
4		500					Liner Size 13 1/4 x 14	Liner Size
5		450					Water-Loss	Filter Cake
6		460						PH
7		480						
8		500						
9		600					Mud Added Sacks	
10		580					Chemicals Added Lbs.	
11		540						
CREW							MATERIALS CHARGED TO OPERATOR	

Driller	W. SEMAK	Core Bit	Serial
Derrickman	L. SWEETLEY	Reaming Bit	Serial
Cat Headman	N. BEECHER, JR.	Core Cutters	SF. HF.
Rotary Helper	C. FREDRICKS	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	D. OLSON		
Leaseman			
REMARKS			FROM TO

TAY	TO FREE COLLARS CON MAN	400
WORK PIPE, PICK UP 2 DRILL PIPE		
E REAM IN TO BOTTOM ROTATE		
OFF BOTTOM HOIST PIPE E		
COLLARS E FREE SAME		1200

[illegible]

Company Representative

GUTHRIE MCLAREN DRILLING LTD.

Well No. WILKINSON WEST TATHALNA LAKE

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

BEAMED
Drilled From 114 To 133 Hole Made 19Date JAN 16/61
Drilled From 154 To 162 Hole Made 8BEAMED
Drilled From 56 To 116 Hole Made 60

Bit No.	3A	4A	No. Stds.	Length	Bit No.	4	No. Stds.	Length	Bit No.	5A	No. Stds.	Length
Serial No.	RERUN	RERUN	No. D.C.'s	3	Length	90.47	Serial No.	RERUN	No. D.C.'s	4	Length	121.01
Bit Size	12 1/4	12 1/4	BELL SUB	Length	280	Bit Size	12 1/4	BELL SUB	Length	280	Bit Size	12 1/4
Bit Type	OSC3	OSC3	Length			Bit Type		Length	27.79	Bit Type		Length
Dr. from			Kelly in =	39.73	Dr. from	154	Kelly in =	38.19	Dr. from		Kelly in =	22.73
Dr. to			TOTAL =	133.00	Dr. to	162	TOTAL =	162.00	Dr. to		TOTAL =	116.00
Cored from			D.C.O.D. Top	6 1/4	Hrs. On Bottom		Cored from		D.C.O.D. Top	6 1/4	Hrs. On Bottom	
Cored to			D.C.I.D. Top	2 1/4	Hrs. Off Bottom		Cored to		D.C.I.D. Top	2 1/4	Hrs. Off Bottom	
Reamed from	0	128	Pipe Size	4 1/2	Trip Time		Reamed from	138	Pipe Size		Trip Time	
Reamed to	128	133	C.S.G. Set at		Serv. Time		Reamed to	154	C.S.G. Set at		Serv. Time	
Total Bit Footage			C.S.G. Size		Rep. Time		Total Bit Footage		C.S.G. Size		Rep. Time	
Bit Hrs.			Pipe in Hole	Jts.	Diesel Fuel Meter Reading		Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.	150	150	Pipe on Racks	Jts.	Today		Table R.P.M.		Pipe on Racks	Jts.		

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday
Depth	Deviation			Consumption	Gals.	Depth	Deviation		
Depth	Deviation					Depth	Deviation		
Depth	Deviation					Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							7/4 X 14		8								
1							Liner Size 6 3/4		9								
2							Water-Loss	Filter Cake	PH	10							
3										11							
4										12							
5							Mud Added Sacks	GEL 13 SAXS	1								
6							Chemicals Added Lbs.		2								
7									3								

CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR	CREW	MATERIALS CHARGED TO OPERATOR
Driller <u>D. MOHNS</u>	Core Bit	Driller <u>D. BRISCOE</u>	Core Bit	Driller <u>W. SEMAK</u>	Core Bit
Derrickman <u>D. BOESTIE</u>	Reaming Bit	Derrickman <u>L. WHITTING</u>	Reaming Bit	Derrickman <u>L. SWERLEY</u>	Reaming Bit
Cat Headman <u>H. BOESTIE</u>	Core Cutters SF. HF.	Cat Headman <u>R. GRAY</u>	Core Cutters SF. HF.	Cat Headman <u>M. BERGSTREISER</u>	Core Cutters SF. HF.
Rotary Helper <u>J. ALARY</u>	Swab Cups	Rotary Helper <u>T. NYHUS</u>	Swab Cups	Rotary Helper <u>G. FREDRICKS</u>	Swab Cups
Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers	Rotary Helper	Swab Rubbers
Fireman <u>L. TRUSS</u>		Fireman <u>R. KLYM</u>		Fireman <u>D. OLSEN</u>	
Leaseman		Leaseman <u>J. GERBRANT</u>		Leaseman	

REMARKS	FROM	TO	REMARKS	FROM	TO	REMARKS	FROM	TO
BEAMED TO 12 1/4	12:00	2:15	REAMING	8:00	12:30	Rib. SERVICE	4:00	4:15
HOIST FOR BIT + UNABLE TO GET TO BOTTOM	2:15	4:15	DRILLING 12 1/4 HOLE	12:30	2:30	COND. MUD FREE STUCK PIPE	4:15	6:30
CLEAN OUT HOLE	4:15	7:30	COND. MUD STUCK ON BOTTOM	2:30	4:00	UNABLE TO GET REAMING.	6:30	
BEAMED TO 12 1/4	7:30	8:00				+ CONDITION MUD		9:30
			(NOTE)			HOIST FOR PLUGGED BIT	9:30	10:00
			UNABLE TO KEEP U/S UP DUE TO WATER ENTERING FROM BELOW SURFACE			UNABLE TO GET TO BOTTOM	10:00	
BOLDERS DROPPING IN FROM 70-120						REAMING IN FROM 56'		12:00

B. Robertson
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. WILKINSON WEST TATHLENA
LAKE

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From 98 To 118 Hole Made 20

Drilled From 118 To 154 Hole Made 36

Drilled From _____ To _____ Hole Made _____

Bit No.	2A	No. Stds.	Length	Bit No.	2A	No. Stds.	Length	Bit No.	3A	No. Stds.	Length
Serial No.	62154 R-2-2	No. D.C.'s	3	Length	97.76	Serial No.	HeR-2-2	No. D.C.'s	4	Length	114.00
Bit Size	8 3/4		Length			Bit Size	8 3/4		Length		
Bit Type	SC		Length			Bit Type	SC		Length		
Dr. from	70	Kelly in =		Dr. from	70	Kelly in =	40.00	Dr. from		Kelly in =	25.50
Dr. to	118	TOTAL =		Dr. to	154	TOTAL =	154.00	Dr. to		TOTAL =	114.00
Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	Hrs. On Bottom	Cored from		D.C.O.D. Top	6 1/4
		D.C.I.D. Top	Hrs. Off Bottom			D.C.I.D. Top	Hrs. Off Bottom			D.C.I.D. Top	2 7/8
Cored to				Cored to				Cored to			
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from	0	Pipe Size	4 1/2
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to	114	C.S.G. Set at	
Total Bit Footage	48	C.S.G. Size	Rep. Time	Total Bit Footage	84	C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	
Bit Hrs.	8 1/4	Pipe in Hole	Jts.	Diesel Fuel Meter Reading		Bit Hrs.	13 1/4	Pipe in Hole	Jts.	REMARKS:	
Table R.P.M.	150	Pipe on Racks	Jts.	Today	36 IN	Table R.P.M.	150	Pipe on Racks	Jts.	Table R.P.M.	150

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation			Consumption	Gals.	Depth	Deviation		Depth	Deviation		
Depth	Deviation					Depth	Deviation		Depth	Deviation		
Depth	Deviation					Depth	Deviation		Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							Liner Size 7 1/4 X 14	Liner Size	8							Liner Size	Liner Size
1							Water-Loss	Filter Cake	9							Water-Loss	Filter Cake
2									10								
3									11								
4									12								
5							Mud Added Sacks 6 IL 30 SACKS		1							Mud Added Sacks GEL 12 SACKS	
6							Chemicals Added Lbs.		2							Chemicals Added Lbs. CRUSTIC 30#	
7									3								

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	12 MC HNS	Core Bit	Serial	Driller	3 13A1500E	Core Bit	Serial	Driller	65. SEMAK	Core Bit	Serial
Derrickman	8 BUCKSTE	Reaming Bit	Serial	Derrickman	1 WHITING	Reaming Bit	Serial	Derrickman	1 JWELEY	Reaming Bit	Serial
Cat Headman	4 BUCKSTE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	8 GRAV	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	N 13RGSTRISZ	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	1 ALARY	Swab Cups	Swab Rubbers	Rotary Helper	T NYHUS	Swab Cups	Swab Rubbers	Rotary Helper	G FREDRICKS	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	6 THUSS			Fireman	G HLYM			Fireman	D OLSIN		
Leaseman				Leaseman	T GERBRANT			Leaseman			

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B. Robertson
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. J.C. WILKINSON WEST TATHANA #4

Lsd. Sec. Twp. Rge. W.

Drilled From 70 To 80 Hole Made 10

Drilled From 80 To 95 Hole Made 18

Drilled From 80 To 93 Hole Made 18

Bit No.	2	No. Stds.	Length
Serial No.	62158	No. D.C.'s	2 Length 59.66
Bl. Size	8 3/4		Length
Bit Type	SC		Length
Dr. from	70	Kelly in =	21.34
Dr. to		TOTAL =	80.00
Cored from		D.C.O.D. To	6 1/4 Hrs. On Bottom
Cored to		D.C.I.D. Top	2 7/8 Hrs. Off Bottom
Reamed from		Pipe Size	4 1/2 Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole	Jta. Diesel Fuel Meter Reading
Table R.P.M.	150	Pipe on Racks	Jta. Today FUEL 3 FEET

Bit No.	3	No. Stds.	Length
Serial No.	62158	No. D.C.'s	2 Length 58.66
Bit Size	83.4		Length
Bit Type	S.C.		Length
Dr. from	70	Kelly in =	39.34
Dr. to	98	TOTAL =	98.00
Cored from		D.C.O.D. Top 6'14	Hrs. On Bottom 3'14
Cored to		D.C.I.D. Top 27'8	Hrs. Off Bottom 43.4
Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	28	C.S.G. Size	Rep. Time
Bit Hrs.	5'14	Pipe in Hole	Jts. REMARKS:
Table R.P.M.	150	Pipe on Racks	Jts.

Bit No.	3	No. Stds.	Length
Serial No.	62158	No. D.C.'s	2 Length 58.66
Bit Size	8 3/4		Length
Bit Type	S.C.		Length
Dr. from	70	Kelly in ==	39.34
Dr. to	98	TOTAL ==	98.00
Cored from		D.C.O.D. Top 6' 1/4	Hrs. On Bottom
Cored to		D.C.I.D. Top 27 1/4	Hrs. Off Bottom
Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	28	C.S.G. Size	Rep. Time
Bit Hrs.	5 1/4	Pipe in Hole	Jts. REMARKS:
Table R.P.M.	150	Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	
Depth	Deviation			Consumption	Gals.
Depth	Deviation				
Depth	Deviation				

Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

		Pipe on Lease	Jts.
Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							7 1/4 x 14	
1							Liner Size	Liner Size
2							Water-Loss	Filter Cake
3								
4								
5							Mud Added Sacks	
6							Chemicals Added Lbs.	
7								

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
8							7 1/4 x 14	
9							Liner Size	Liner Size
10							Water-Loss	Filter Cake
11								PH
12								
1							Mud Added Sacks	GE 2 SAX
2							Chemicals Added Lbs.	
3								

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CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAN	Core Bit	Serial
Derrickman	H. SWEEZEY	Reaming Bit	Serial
Cat Headman	N. BERGSTRAISER	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	G. FREDRICKS	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	D. OLSEN		
Leaseman			

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D. MOHNS	Core Bit	Serial
Derrickman	D. BOGSTIE	Reaming Bit	Serial
Cat Headman	H. BOGSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TRUSS		
Leaseman	T. C. FRANKS		

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCOE	Core Bit	Serial
Derrickman	H. WAITING	Reaming Bit	Serial
Cat Headman	R. GRAY	Core Cutters SF, HF.	Core Catchers SF, HF.
Rotary Helper	T. NYHUS	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	R. KLEM		
Leadman			

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B. H. H. H.
Tool Pusher

GUTHRIE McLAREN DRILLING LTD.

Well No. J.C. WILKINSON WEST TATHANA #4

Date JAN 13/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____

Drilled From 0 To 40 Hole Made 40

Drilled From 40 To 70 Hole Made 30

Bit No.		No. Stds.	Length
Serial No.		No. D.C.'s	Length
Bit Size			Length
Bit Type			Length
Dr. from		Kelly in ==	
Dr. to		TOTAL ==	
Cored from		D.C.O.D. Top	Hrs. On Bottom
Cored to		D.C.I.D. Top	Hrs. Off Bottom
Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole	Jts. Diesel Fuel Meter Reading
Table R.P.M.		Pipe on Backs	

Bit No.	1	No. Stds.	Length
Serial No.	62153	No. D.C.'s	Length
Bit Size	8 3/4		Length
Bit Type	SC		Length
Dr. from	0	Kelly in =	40.00
Dr. to	40	TOTAL =	40.00
Cored from		D.C.O.D. Top	Hrs. On Bottom
Cored to		D.C.I.D. Top	Hrs. Off Bottom
Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage	40	C.S.G. Size	Rep. Time
Bit Hrs.	2 1/2	Pipe in Hole	Jts.
Table R.P.M.	150	Pipe on Racks	Jts.
			REMARKS:

Bit No.	1	2	No. Sds.	Length
Serial No.	62153	RERON	No. D.C.'s	1 Length 29.48
Bit Size	5 3/4	12 1/4		Length
Bit Type	5C	DSC-3		Length
Dr. from	0		Kelly in	40.00
Dr. to	70		TOTAL	
Cored from			D.C.O.D. Top	Hrs. On Bottom
Cored to			D.C.I.D. Top	Hrs. Off Bottom
Reamed from		0	Pipe Size	Trip Time
Reamed to		70	C.S.G. Set at	Serv. Time
Total Bit Footage			C.S.G. Size	Rep. Time
Bit Hrs.	3 1/2	4	Pipe in Hole	Jts. REMARKS:
Table R.P.M.	150	150	Pipe on Racks	Jts.

Depth	Deviation	Total Pipe on Lense	Jts.	Yesterday	
Depth	Deviation			Consumption	Gals.
Depth	Deviation				
Depth	Deviation				

Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation		
Depth	Deviation		
Depth	Deviation		

Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation		
Depth	Deviation		

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size
12							Liner Size	Liner Size
1							Water-Loss	Filter Cake
2								PH
3								
4								
5							Mud Added Sacks	\$800 = GEL
6							Chemicals Added Lbs.	
7								

Deviation						
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added
8						No. 1 Pump Size 7 1/2 x 14
9						Liner Size 6 3/4
10						Water-Loss
11						Filter Cake
12						PH
1						Mud Added Sacks 17 SACK
2						Chemicals Added Lbs. 60 # CAUSTIC
3						

Depth		Deviation							
Time	Wt.	Vis.	Pump Stroke	Pump Pres-sure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
4							7'4 x 14		
5							Liner Size	6 3/4	
6							Water-Loss	Filter Cake	FH
7									
8									
9							Mud Added Sacks		
10							Chemicals Added Lbs.		
11									

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAK	Core Bit	Serial
Derrickman	A. SWEETZ	Reaming Bit	Serial
Cat Headman	N. BERGSTREISER	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	E. FREDRICKS	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	D. OLSEN		
Leaseman			

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	D MOHNS	Core Bit	Serial
Derrickman	D BOSTIE	Reaming Bit	Serial
Cat Headman	H. BOSTIE	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	L. TRUSS		
Leaseman	J. GERBRANDT 16 HRS		

CREW		MATERIALS CHARGED TO OPERATOR	
Driller	B. BRISCEE	Core Bit	Serial
Derrickman	L. WHITING	Reaming Bit	Serial
Cat Headman	R. GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	T. NYHUS	Swab Cups	Swab Rubbers
Rotary Helper			
Fireman	R. KUEHN		
Loggeman			

[illegible][illegible][illegible]

Company Representative

E. Robertson
Tool Pusher

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length	Bit No.		No. Stds.	Length
Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length	Serial No.		No. D.C.'s	Length
Bit Size			Length	Bit Size			Length	Bit Size			Length
Bit Type			Length	Bit Type			Length	Bit Type			Length
Dr. from		Kelly in ==		Dr. from		Kelly in ==		Dr. from		Kelly in ==	
Dr. to		TOTAL ==		Dr. to		TOTAL ==		Dr. to		TOTAL ==	
Cored from		D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom	Cored from		D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom	Cored from		D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom
Cored to				Cored to				Cored to			
Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time	Reamed from		Pipe Size	Trip Time
Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time	Reamed to		C.S.G. Set at	Serv. Time
Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time	Total Bit Footage		C.S.G. Size	Rep. Time
Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.	Bit Hrs.		Pipe in Hole	Jts.
Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.	Table R.P.M.		Pipe on Racks	Jts.

Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12							Liner Size	Liner Size	8							Liner Size	Liner Size	4							Liner Size	Liner Size	
1							Water-Loss	Filter Cake	PH	9						Water-Loss	Filter Cake	PH	5						Water-Loss	Filter Cake	PH
2										10									6								
3										11									7								
4										12									8								
5							Mud Added Sacks			1						Mud Added Sacks			9						Mud Added Sacks		
6							Chemicals Added Lbs.			2						Chemicals Added Lbs.			10						Chemicals Added Lbs.		
7										3									11								

CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR		CREW		MATERIALS CHARGED TO OPERATOR	
Driller	W. SEMAK	Core Bit	Serial	Driller	D. MOHNS	Core Bit	Serial	Driller	B. BRISCOE	Core Bit	Serial
Derrickman	A. SCHAEZEV	Reaming Bit	Serial	Derrickman	H. BOESTIE	Reaming Bit	Serial	Derrickman	L. WAITING	Reaming Bit	Serial
Cat Headman	N. BERGSTRUISER	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	H. BOESTIE	Core Cutters SF. HF.	Core Catchers SF. HF.	Cat Headman	R. GRAY	Core Cutters SF. HF.	Core Catchers SF. HF.
Rotary Helper	C. FREDRICKS	Swab Cups	Swab Rubbers	Rotary Helper	J. ALARY	Swab Cups	Swab Rubbers	Rotary Helper	T. NYHAUS	Swab Cups	Swab Rubbers
Rotary Helper				Rotary Helper				Rotary Helper			
Fireman	D. OLSEN			Fireman	A. TROSS 12 HRS			Fireman	R. KLEM		
Leaseman				Leaseman	J. GERBRANDT 16 HRS			Leaseman	H. MCNALL		

[illegible]

Well No. J.C. WILKINSON WEST TATUMINA #4

Company Representative
B. Robertson
Tool Pusher

Date JAN 11/61

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

[illegible]

Company Representative

R. Johnston
Pool Pusher

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____

PIC UP

Company Representative

B. Robertson
Tool Pusher

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Bit No.			No. Stds.	Length	Bit No.			No. Stds.	Length	Bit No.			No. Stds.	Length
Serial No.			No. D.C.'s	Length	Serial No.			No. D.C.'s	Length	Serial No.			No. D.C.'s	Length
Bit Size				Length	Bit Size				Length	Bit Size				Length
Bit Type				Length	Bit Type				Length	Bit Type				Length
Dr. from			Kelly in ==		Dr. from			Kelly in ==		Dr. from			Kelly in ==	
Dr. to			TOTAL ==		Dr. to			TOTAL ==		Dr. to			TOTAL ==	
Cored from			D.C.O.D. Top	Hrs. On Bottom	Cored from			D.C.O.D. Top	Hrs. On Bottom	Cored from			D.C.O.D. Top	Hrs. On Bottom
			D.C.I.D. Top	Hrs. Off Bottom				D.C.I.D. Top	Hrs. Off Bottom				D.C.I.D. Top	Hrs. Off Bottom
Cored to					Cored to					Cored to				
Reamed from			Pipe Size	Trip Time	Reamed from			Pipe Size	Trip Time	Reamed from			Pipe Size	Trip Time
Reamed to			C.S.G. Set at	Serv. Time	Reamed to			C.S.G. Set at	Serv. Time	Reamed to			C.S.G. Set at	Serv. Time
Total Bit Footage			C.S.G. Size	Rep. Time	Total Bit Footage			C.S.G. Size	Rep. Time	Total Bit Footage			C.S.G. Size	Rep. Time
Bit Hrs.			Pipe in Hole	Jts.	Diesel Fuel Meter Reading	Bit Hrs.		Pipe in Hole	Jts.	REMARKS:	Bit Hrs.		Pipe in Hole	Jts.
Table R.P.M.			Pipe on Racks	Jts.	Today	Table R.P.M.		Pipe on Racks	Jts.		Table R.P.M.		Pipe on Racks	Jts.

Depth		Deviation																									
Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	Time	Wt.	Vis.	Pump Stroke	Pump Pressure	Pit Gauge	Water Added	No. 1 Pump Size	No. 2 Pump Size	
12							Liner Size	Liner Size	8							Liner Size	Liner Size	4							Liner Size	Liner Size	
1							Water-Loss	Filter Cake	PH	9						Water-Loss	Filter Cake	PH	5						Water-Loss	Filter Cake	PH
2										10									6								
3										11									7								
4										12									8								
5							Mud Added Sacks			1						Mud Added Sacks			9						Mud Added Sacks		
6							Chemicals Added Lbs.			2						Chemicals Added Lbs.			10						Chemicals Added Lbs.		
7										3									11								

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller			Core Bit	Serial		Driller			Core Bit	Serial		Driller			Core Bit	Serial	
Derrickman	B. BRISCOE	10 HRS	Reaming Bit	Serial		Derrickman	W. SEMAK	10 HRS	Seaming Bit	Serial		Derrickman	D. MOHNS	10 HRS	Reaming Bit	Serial	
Cat Headman	L. WHITING	10 HRS	Core Cutters SF. HF.	Core Catchers SF. HF.		Cat Headman	L. SWEETZ	10 HRS	Core Cutters SF. HF.	Core Catchers SF. HF.		Cat Headman	D. BOESTIE	10 HRS	Core Cutters SF. HF.	Core Catchers SF. HF.	
Rotary Helper	R. GRAY	10 HRS	Swab Cups	Swab Rubbers		Rotary Helper	N. BERGSTREISER	10 HRS	Swab Cups	Swab Rubbers		Rotary Helper	H. BOESTIE	10 HRS	Swab Cups	Swab Rubbers	
Rotary Helper	T. NYHUS	10 HRS				Rotary Helper	C. FREDRIKS	10 HRS				Rotary Helper	J. AHARY	10 HRS			
Fireman	R. KLEM	10 HRS				Fireman	D. OLSEN	10 HRS				Fireman	H. TRUSS	10 HRS			
Leaseman	J. GERBRANDT	10 HRS				Leaseman	H. MCNALL	10 HRS				Leaseman					

[illegible]

Well No. WILKINSON W. TATHANA LAKE
#4

Tool Pusher

Date JAN 19 1961

Lsd. _____ Sec. _____ Twp. _____ Rge. _____ W. _____

Drilled From _____ To _____ Hole Made _____

Drilled From 172 To 225 Hole Made 53

Drilled From 225 To 334 Hole Made 109

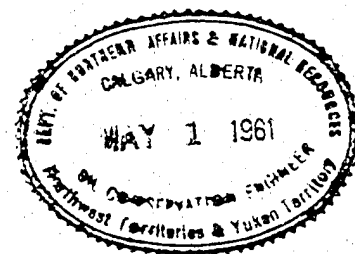
Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length	Bit No.	No. Stds.	Length
Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length	Serial No.	No. D.C.'s	Length
Bit Size		Length	Bit Size		Length	Bit Size		Length	Bit Size		Length
Bit Type		Length	Bit Type		Length	Bit Type		Length	Bit Type		Length
Dr. from	Kelly in =		Dr. from	Kelly in =		Dr. from	Kelly in =		Dr. from	Kelly in =	
Dr. to	TOTAL =		Dr. to	TOTAL =		Dr. to	TOTAL =		Dr. to	TOTAL =	
Cored from	D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom	Cored from	D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom	Cored from	D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom	Cored from	D.C.O.D. Top D.C.I.D. Top	Hrs. On Bottom Hrs. Off Bottom
Cored to	Pipe Size	Tripp Time	Cored to	Pipe Size	Tripp Time	Cored to	Pipe Size	Tripp Time	Cored to	Pipe Size	Tripp Time
Reamed from	C.S.G. Set at	Serv. Time	Reamed from	C.S.G. Set at	Serv. Time	Reamed from	C.S.G. Set at	Serv. Time	Reamed from	C.S.G. Set at	Serv. Time
Reamed to	C.S.G. Size	Rep. Time	Reamed to	C.S.G. Size	Rep. Time	Reamed to	C.S.G. Size	Rep. Time	Reamed to	C.S.G. Size	Rep. Time
Total Bit Footage	Pipe in Hole	Jts.	Total Bit Footage	Pipe in Hole	Jts.	Total Bit Footage	Pipe in Hole	Jts.	Total Bit Footage	Pipe in Hole	Jts.
Bit Hrs.	Pipe on Racks	Jts.	Bit Hrs.	Pipe on Racks	Jts.	Bit Hrs.	Pipe on Racks	Jts.	Bit Hrs.	Pipe on Racks	Jts.
Table R.P.M.		Today	Table R.P.M.		Today	Table R.P.M.		Today	Table R.P.M.		Today

Depth	Deviation	Total Pipe on Lease	Jts.	Yesterday	Depth	Deviation	Total Pipe on Lease	Jts.	R.P.M.	Pipe on Racks	Jts.	
Depth	Deviation			Consumption	Depth	Deviation			Depth	Deviation	Total Pipe on Lease	Jts.
Depth	Deviation				Depth	Deviation			Depth	Deviation		
Depth	Deviation				Depth	Deviation			Depth	Deviation		

[illegible]

CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR			CREW			MATERIALS CHARGED TO OPERATOR		
Driller	<i>D. MOHNS</i>		Core Bit		Serial	Driller	<i>B. BRISCOE</i>		Core Bit		Serial	Driller	<i>W. SEMAK</i>		Core Bit		Serial
Derrickman	<i>D. BOGSTIE</i>		Reaming Bit		Serial	Derrickman	<i>L. WHITING</i>		Reaming Bit		Serial	Derrickman	<i>L. SULLIVAN</i>		Reaming Bit		Serial
Cat Headman	<i>H. BOGSTIE</i>		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	<i>B. GRAY</i>		Core Cutters SF. HF.		Core Catchers SF. HF.	Cat Headman	<i>N. BERGSTREISER</i>		Core Cutters SF. HF.		Core Catchers SF. HF.
Rotary Helper	<i>J. RYAN</i>		Swab Cups		Swab Rubbers	Rotary Helper	<i>T. NYHUS</i>		Swab Cups		Swab Rubbers	Rotary Helper	<i>G. FREDRICKS</i>		Swab Cups		Swab Rubbers
Rotary Helper						Rotary Helper						Rotary Helper					
Fireman	<i>L. T. RUSS</i>					Fireman	<i>B. KILVIM</i>					Fireman	<i>V. O. OLSEN</i>				
Leaseman						Leaseman	<i>T. GERBRANT</i>					Leaseman					

[illegible]



GEOLOGICAL AND ENGINEERING REPORT
WILKINSON WEST TATHLINA LAKE NO. 4
TATHLINA LAKE AREA, NORTHWEST TERRITORIES

J. G. SPROULE & ASSOCIATES
GEOLOGICAL & EXPLORATION CONSULTANTS

609 FOURTH AVENUE WEST
CALGARY - ALBERTA

TELEPHONE
AMHERST 6-7755

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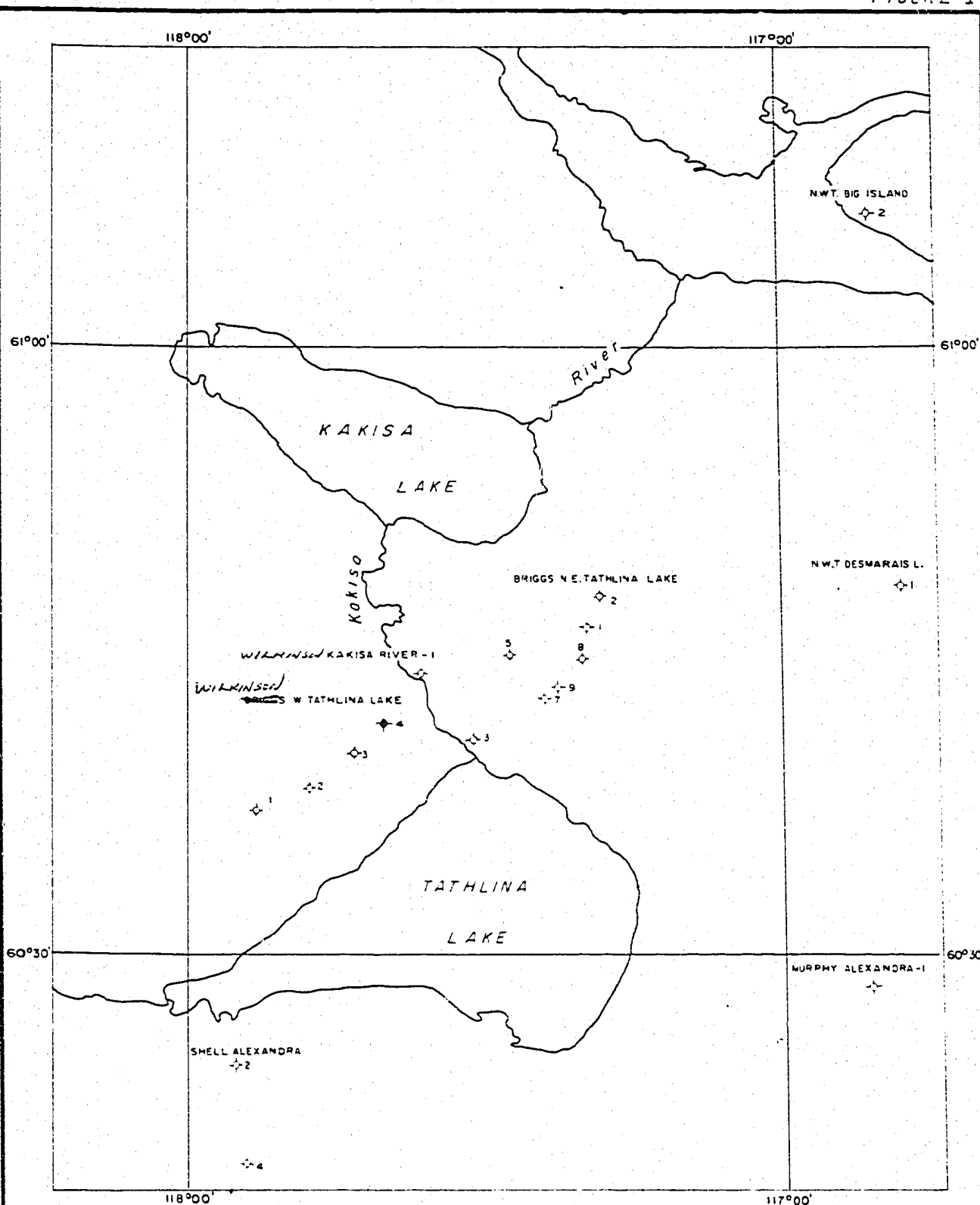
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NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS	Appendix I
WATER ANALYSIS REPORT - Chemical & Geological Laboratories	Appendix II
DRILL STEM TEST REPORTS NOS. 1 AND 2 - Lynes United Services Ltd.	In pocket
LOGS - Schlumberger of Canada - Induction-Electrical	In pocket
- Gamma Ray-Integrated Sonic	In pocket
Visual Well Log	In pocket

LIST OF ILLUSTRATIONS

Figure I - Index Map showing Location of Tathlina Lake Wells	Frontispiece
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INDEX MAP
SHOWING
LOCATION OF TATHLINA LAKE WELLS

✧ Abandoned Well



SCALE 1" = 8 MILES

INTRODUCTION

Wilkinson West Tathlina Lake No. 4 was the first well drilled in the 1961 drilling program on Permits held in the name of the James C. Wilkinson Nominee Account. The well was drilled to test the updip oil possibilities in the Presqu'ile dolomite reef, the existence of which had been established in previous drilling. The location was based on seismic work done during the 1959-60 winter season and the drilling site was situated on a surveyed seismic line which was easily accessible from existing roads.

Radiotelephone communication was established between the camp and Hay River, Northwest Territories, from where daily telegrams were sent to Calgary for further distribution. The operator was present at the well site for the drilling and testing operations below 2,800 feet and for the logging of the hole by Schaumberger of Canada.

SUMMARY OF WELL DATA

Name of Operator: James C. Wilkinson Nominee Account
(Formerly D. Todd Briggs Nominee Account)
Northwest Territories
A. M. Lloyd, Operator.

Well Name: Wilkinson West Tathlina Lake No. 4

Location: 60° 41' 33" N. Latitude. 117° 40' 06" W, Longitude

Permit No: 887

Co-ordinates: 9,400' N. of S. boundary of Permit No. 887
14,600' E. of W. boundary of Permit No. 887.

Elevation: Ground 899'.
Kelly Bushing 911'.
Kelly Bushing to Casing Flange 12.2'

Technical Supervision: J. C. Sproule and Associates Ltd.
Norman Soul, P. Geol.

Drilling Contractor: Guthrie McLaren Drilling Ltd.
Rig No. 3.
Draw-works - National T-32 trailer mounted
Derrick - 97' Lee C. Moore trailer mounted
Pump - Oilwell 14-P-HD 7 1/4" x 14"
Blowout Preventors - 10" x 900 Series Hydril
10" x 900 Series Cameron
80 Gal. Hydril Accumulator
Drill Pipe - 4 1/2" Internal Flush

Status: Plugged and abandoned.

Date Spudded: January 13, 1961

Total Depth: Driller 3,198'
Logs 3,197'

Completed Drilling: January 30, 1961

Date Abandoned: February 2, 1961

Date Rig Released: February 2, 1961

Number of Rig Days: 21

Hole Size: 12 1/4" surface to 172'
7 7/8" 172' to 3,198'

Casing:

153.10' x 8 5/8" x 24 lb., J-55, new, set at 167.90' K. B.

Cemented with 90 sacks and 2% Calcium Chloride.

January 18, 1961. *plus 20 5x. around outside at top.*

Mud Type:

Gel

Geological Markers:

<u>Marker</u>	<u>Depth Feet</u>	<u>Subsea Feet</u>
Glacial Drift	Surface	899
Wabamun Group	60	851
Trout River Formation	223	688
Grumbler Formation	275	636
Kakisa Reef Member	275-400	636-511
"M" (Structure Test)	630	281
"X" (Structure Test)	1005	-94
"Q" (Structure Test)	1360	-449
Hay River Formation	1445	-534
Spence River Formation	2470	-1559
Slave Point Formation	2550	-1639
Watt Mountain Formation	2730	-1819
Presqu'ile Limestone	2750	-1839
Presqu'ile Dolomite	2825	-1914
Quartzitic Sandstone	3145	-2234
Precambrian	3190	-2279

Core Summary:

None taken

Formation Test Summary:

	<u>Interval Feet</u>	<u>Formation</u>	<u>Results</u>
1	2830-2860	Presqu'ile Dolomite	1,600' sulphurous salt water in 50 minutes.
2	2960-2975	Presqu'ile Dolomite	2,650' sulphurous salt water in 35 minutes.

Logs:

Schlumberger Induction Electric Log 3,197' - 167'
Schlumberger Sonic Gamma Ray 3,194' - 30'

Plugs:

Plug No. 1 175 sax and 2% CaCl₂ 3,198'-2,725'
Felt after 7 hours at 2,698'

Plug No. 2 40 sax and 2% CaCl₂ 220'-120'
Felt after 6 hours at 109'

Remarks:

Lost circulation at 70'. Drilling of surface hole delayed by caving of glacial drift causing bit to plug and get stuck in hole. Water entering surface hole necessitated addition of extra gel to maintain viscosity.

DAILY CHRONOLOGICAL REPORTWell Name: Wilkinson West Tathlina Lake No. 4Location: 60° 41' 33" North Latitude. 117° 40' 06" West Longitude.

Operations ending at 12:00 midnight.

<u>Date</u> 1961	<u>Total</u> <u>Depth</u> Feet	<u>Progress</u> Feet	<u>Days</u>	<u>Operations</u>
January 13	70	58	1	Guthrie McLaren Rig No. 3 spudded at 1:30 p.m. Drilled 8 3/4" hole to 70' in 3 1/2 hours. Reamed to 12 1/4" hole to 70' at midnight. Welding to stabilize conductor pipe 3 hours.
January 14	98	28	2	Lost circulation at 70'. Regained circulation after 5 hours. Drilled 8 1/4" hole from 70' to 98' in 5 1/4 hours. Unplugging bit, conditioning mud and cleaning out to bottom 11 1/2 hours. Hole caving badly.
January 15	154	56	3	Conditioning mud and cleaned out to bottom in 5 hours. Drilled 8 3/4" pilot hole with same bit from 98' to 154' in 8 hours. Pulled bit and changed swivel packing. Mixed mud, unable to get to bottom in 5 hours. Reamed to 12 1/4" hole from 70' to 114' in 6 hours. Reaming.
January 16	162	8	4	Reamed to 12 1/4" hole from 114' to 128' in 2 1/4 hours and pulled bit. Cleaned out to 12 1/4" in 5 1/4 hours. Reamed from 128' to 154' in 5 hours. Drilled 12 1/4" hole from 154' to 162' in 2 hours. Stuck in hole at 162', freed after 4 hours. Unable to get to bottom with next 12 1/4" bit. Reaming at 56' - cleaning out - 5 1/2 hours.
January 17	172	10	5	Cleaned out to 162' at 2:00 a.m. Drilled 12 1/4" hole from 162' to 172' in 1 3/4 hours. Ran in to condition hole to run casing. Stuck in hole when pulling out. Freed pipe and pulled out of hole - 20 hours.
January 18	172	0	6	Ran 5 joints of 8 5/8" x 24 lbs. casing and circulated 1 1/2 hours. Set 153.10' of 8 5/8" x 24 lbs. J-55 new casing at 167.90'

<u>Date</u> 1961	<u>Total</u> <u>Depth</u> Feet	<u>Progress</u> Feet	<u>Days</u>	<u>Operations</u>
				K.B. and cemented with 90 sax and 2% CaCl ₂ by Halliburton Skid Unit. No returns to surface. Completed at 4:30 a.m. Slacked off at 5:00 p.m. Cemented around top of casing with 20 sax and 1/2 sax CaCl ₂ . Installing blow-out preventors and nipping up.
January 19	334	162	7	Dug rat hole. Ran in with 7 7/8" Bit No. 1 and pressured up on casing for 30 minutes at 800 psi. Drilled cement. Out of shoe at 11:30 a.m. Drilling with Bit No. 1.
January 20	727	393	8	Drilled to 380' with Bit No. 1 at 4:30 a.m. Drilling with Bit No. 2.
January 21	1180	453	9	Drilled to 800' with Bit No. 2 at 3:30 a.m. Drilled to 1,150' with Bit No. 3 at 10:00 p.m. Drilling with Bit No. 4.
January 22	1610	430	10	Drilled to 1,390' with Bit No. 4 at 12:30 p.m. Drilling with Bit No. 5.
January 23	2170	560	11	Drilled to 1,888' with Bit No. 5 at 10:00 a.m. Drilling with Bit No. 6.
January 24	2607	437	12	Drilled to 2,452' with Bit No. 6 at 9:30 a.m. Measured out of hole. No correction. Drilling with Bit No. 7.
January 25	2725	118	13	Drilled to 2,650' with Bit No. 7 at 6:45 a.m. Drilling with Bit No. 8.
January 26	2856	131	14	Drilled to 2,730' with Bit No. 8 at 1:30 a.m. Drilling with Bit No. 9 from 4:30 a.m.
January 27	2923	67	15	Drilled to 2,860' with Bit No. 9 at 1:00 a.m. Circulated 45 minutes. Measured out of hole. No correction. Ran Drill Stem Test No. 1 from 2,830' to 2,860'. Valve open for 50 minutes from 8:30 a.m. to 9:20 a.m. Recovered 1,600' of sulphurous salt water. Out of hole at 11:45 a.m. Drilling with Bit No. 10 from 2:15 p.m.
January 28	3059	136	16	Drilled to 2,985' with Bit No. 10 at 10:30 a.m. Drilling with Bit No. 11 from 1:45 p.m.

<u>Date</u> 1961	<u>Total</u> <u>Depth</u> Feet	<u>Progress</u> Feet	<u>Days</u>	<u>Operations</u>
January 29	3143	84	17	Drilled to 3,095' with Bit No. 11 at 6:30 a.m. Drilling with Bit No. 12 from 10:30 a.m.
January 30	3198 T.D.	55	18	Drilled to 3,166' with Bit No. 12 at 6:30 a.m. Drilled to 3,198' Total Depth with Bit No. 13 from 11:45 a.m. to 8:00 p.m. Circulated one hour. Measured out of hole. Running Induction Electrical Log from 10:30 p.m.
January 31	3198	0	19	Ran Induction Electrical Log to 3,197' at 3:30 a.m. Ran Sonic Gamma Ray Log to 10:30 a.m. Ran in with bit and cleaned out to bottom.
February 1	3198	0	20	Circulated to 1:00 a.m. Pulled out to run Drill Stem Test No. 2. Straddle test of interval 2,960' to 2,975'. Valve open for 35 minutes from 8:00 a.m. to 8:35 a.m. Recovered 2,650' of sulphurous salt water. Out of hole at 11:15 a.m. Ran in open-ended to abandon. Ran plug No. 1 from 3,198' to 2,725' with 175 sax and 2% CaCl ₂ . Plug down at 4:30 p.m. Felt at 2,698' at 11:30 p.m. Laying down drill pipe.
February 2	3198	0	21	Laid down drill pipe to 1:30 a.m. Ran Plug No. 2 from 220' to 120' with 40 sax and 2% CaCl ₂ . Plug down at 2:00 a.m. Felt at 109' at 8:00 a.m. Laid down drill pipe and prepared to move. Rig released at 10:00 a.m.

DEVIATION SURVEYSWell Name: Wilkinson West Tathlina Lake No. 4.Location: 60° 41' 33" North Latitude. 117° 40' 06" West Longitude.

<u>Depth</u> <u>Feet</u>	<u>Deviation</u> <u>Degrees</u>	<u>Depth</u> <u>Feet</u>	<u>Deviation</u> <u>Degrees</u>
100	1	1377	1/2
160	1/2	1860	3/4
215	1/4	2410	3/4
318	1/2	2650	1/4
550	3/4	2860	1/2
592	1/2	2975	1/2
975	1/2	3066	0
1136	1/4	3198	1/4

MUD RECORDWell Name: Wilkinson West Tathlina Lake No. 4.Location: 60° 41' 33" North Latitude. 117° 40' 06" West Longitude.

<u>Date</u> 1961	<u>Depth</u>		<u>Weight</u>	<u>Viscosity</u>	<u>Water</u> <u>Loss</u>	<u>P.H.</u>	<u>Additives</u>
	<u>From</u> Feet	<u>To</u> Feet					
Jan. 13	0	70	-	-	-	-	Gel - 2500 lbs. Caustic - 60 lbs.
Jan. 14	70	98	-	-	-	-	Gel - 1400 lbs.
Jan. 15	98	154	-	-	-	-	Gel - 6200 lbs. Caustic - 30 lbs.
Jan. 16	154	162	-	148	-	-	Gel - 3600 lbs. Caustic - 45 lbs.
Jan. 17	162	172	-	540	-	-	-
Jan. 18	-	-	-	-	-	-	-
Jan. 19	172	334	9.2	127	-	11.0	Gel - 1500 lbs. Caustic - 75 lbs. Bicarbonate - 700 lbs. Spersene - 125 lbs.
Jan. 20	334	727	9.2	75	-	11.0	Gel - 2300 lbs. Caustic - 175 lbs. Spersene - 175 lbs.
Jan. 21	727	1180	10.5	65	6.2	12.5	Gel - 1000 lbs. Caustic - 215 lbs. Spersene - 225 lbs.
Jan. 22	1180	1610	10.5	78	3.6	12.5	Gel - 1400 lbs. Caustic - 175 lbs. Spersene - 250 lbs. CMC - 50 lbs. Starch - 50 lbs. My-lo-jel - 450 lbs.
Jan. 23	1610	2170	10.7	70	3.8	12.5	Gel - 400 lbs. Caustic - 400 lbs. Spersene - 350 lbs. My-lo-jel - 200 lbs.

Date 1961	Depth		Weight	Viscosity	Water Loss	P.H.	Additives
	From Feet	To Feet					
Jan. 24	2170	2607	11.2	65	4.2	13.0	Gel - 300 lbs. Caustic - 200 lbs. Spersene - 200 lbs.
Jan. 25	2607	2725	11.0	70	4.0	13.0	Gel - 1900 lbs. Caustic - 100 lbs. Spersene - 100 lbs. My-lo-jel - 450 lbs.
Jan. 26	2725	2856	10.6	75	3.4	12.5	Gel - 2600 lbs. Caustic - 400 lbs. Spersene - 400 lbs. My-lo-jel - 300 lbs.
Jan. 27	2856	2923	10.4	65	3.8	13.0	Gel - 1600 lbs. Caustic - 200 lbs. Spersene - 200 lbs. My-lo-jel - 100 lbs.
Jan. 28	2923	3059	10.3	75	3.6	12.5	Gel - 2800 lbs. Caustic - 250 lbs. Spersene - 250 lbs. My-lo-jel - 200 lbs.
Jan. 29	3059	3143	10.0	53	4.3	13.0	Gel - 1900 lbs. Caustic - 275 lbs. Spersene - 275 lbs. My-lo-jel - 450 lbs.
Jan. 30	3143	3198	9.9	98	5.0	13.0	Gel - 1800 lbs. Caustic - 250 lbs. Spersene - 150 lbs. My-lo-jel - 350 lbs.
Jan. 31	3198	3198	9.9	88	3.2	13.0	Gel - 1000 lbs. Caustic - 100 lbs. Spersene - 100 lbs.
Feb. 1	3198	3198	9.9	84	3.6	13.0	-

Summary of Total Mud Used

Gel	-	34,200 lbs.
Caustic	-	2,950 lbs.
Spersene	-	2,800 lbs.
My-lo-jel	-	2,500 lbs.
Bicarbonate	-	700 lbs.
Sodium CMC	-	50 lbs.
Starch	-	50 lbs.

BIT RECORDWell Name: Wilkinson West Tathlina Lake No. 4Location: 60° 41' 33" North Latitude. 117° 40' 06" West Longitude.

<u>No.</u>	<u>Make</u>	<u>Type</u>	<u>Size</u> <u>Inches</u>	<u>Depth</u>		<u>Progress</u> <u>Feet</u>	<u>Hours</u>
				<u>From</u> <u>Feet</u>	<u>To</u> <u>Feet</u>		
1A		Rerun	8 3/4	0	70	58	3 1/2
2A		Rerun	8 3/4	70	154	84	13 1/4
3A		Retip	12 1/4	0	128	116	(reamed)
4A		Retip	12 1/4	154	162	8	2
5A		Retip	12 1/4	162	172	10	1 3/4
1	Reed	YT	7 7/8	172	380	208	16
2	Reed	YT	7 7/8	380	800	420	20 3/4
3	Reed	YT	7 7/8	800	1150	350	14 1/4
4	Reed	YT	7 7/8	1150	1390	240	13 1/4
5	Reed	YT-1	7 7/8	1390	1888	498	18 1/4
6	Reed	YT-3	7 7/8	1888	2452	564	19 3/4
7	Reed	YT-1	7 7/8	2452	2650	198	15 3/4
8	Reed	YT	7 7/8	2650	2730	80	15
9	Reed	YS-1	7 7/8	2730	2860	130	19 1/4
10	Reed	YS-1	7 7/8	2860	2985	125	19 1/4
11	Reed	YS-1	7 7/8	2985	3095	110	16
12	Reed	YM	7 7/8	3095	3166	71	18
13	Reed	YH	7 7/8	3166	3198	32	12

Total Depth - 3,198'

BIT SUMMARYSurface Hole:

<u>Size</u> <u>Inches</u>	<u>Type</u>	<u>No.</u>
8 3/4	Rerun	2
12 1/4	Retip	3

Main Hole:

<u>Make</u>	<u>Size</u> <u>Inches</u>	<u>Type</u>	<u>No.</u>
Reed	7 7/8	YT	5
Reed	7 7/8	YT-1	2
Reed	7 7/8	YT-3	1
Reed	7 7/8	YS-1	3
Reed	7 7/8	YM	1
Reed	7 7/8	YH	1

Total Bits - 13

TIME DRILLING RECORDWell Name:

Wilkinson West Tathlina Lake No. 4

Location:

60° 41' 33" North Latitude. 117° 40' 06" West Longitude

Interval
FeetTime
Mins.

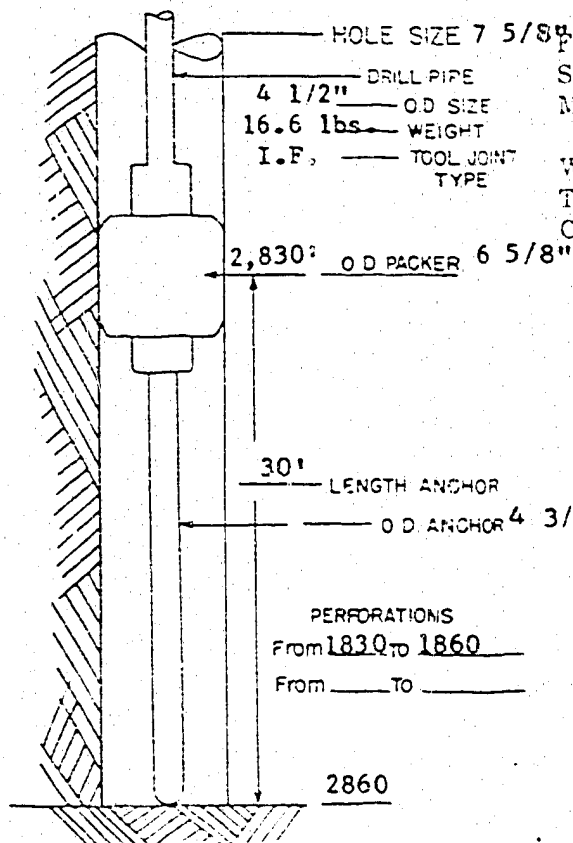
Five-foot Intervals.

2400-2450	6, 7, 6, 8, 8, 11, 12, 8, 10, 14.
2450-2500	12, 12, 23, 10, 8, 11, 11, 11, 10, 8.
2500-2550	10, 13, 13, 19, 13, 13, 18, 22, 31, 21.
2550-2600	16, 17, 20, 19, 18, 27, 37, 36, 46, 35.
2600-2650	33, 31, 27, 26, 29, 31, 35, 38, 36, 41.
2650-2700	36, 40, 39, 43, 36, 33, 36, 52, 55, 54.
2700-2750	57, 57, 64, 90, 84, 80, 35, 30, 33, 34.
2750-2800	44, 47, 43, 37, 43, 37, 44, 40, 44, 44.
2800-2850	40, 38, 49, 50, 52, 51, 42, 40, 59, 48.
2850-2900	51, 69, 38, 38, 31, 40, 49, 52, 31, 32.
2900-2950	34, 46, 59, 58, 46, 42, 44, 50, 41, 48.
2950-3000	39, 45, 56, 53, 40, 27, 27, 31, 26, 33.
3000-3050	30, 28, 28, 21, 25, 27, 28, 46, 54, 63.
3050-3100	75, 72, 49, 49, 41, 65, 46, 39, 81, 91.
3100-3150	62, 60, 66, 78, 95, 83, 77, 83, 71, 59.
3150-3198	48, 49, 79, 51, 56, 56, 50, 77, 94, 54.

T. D.

DRILL STEM TEST REPORT

Well Name West Tathlina TEST No. 1 Run No. 1
 District Tathlina Lake
 Field Wildcat Well No. 4 Province Northwest Territories
 Testing Company Lynes United Services Ltd. Operator Lyle Gillis
 Date Commenced January 27, 1961 Date Completed January 27, 1961



Formation Tested Presqu'ile
 Section Tested. From 2,830 To 2,860 ft.
 Mud Properties: Wt. 10.6 Vis. 75 sec.
 Filtrate 3.8 c.c. Filter Cake 2/32 Gel -
 Water Cushion - ft.
 Type of Packer Conventional
 Choke Size, surface - Bottom Hole 1/2"

Time	Remarks
Tester started in hole 5:45 a.m.	Initial shut-in
Tester on bottom 7:30 a.m.	8:00 - 8:30 a.m.
Tester opened 8:30 a.m.	
Tester closed 9:20 a.m.	Final shut-in
Tester pulled loose 9:35 a.m.	9:20-9:35 a.m.
Tester out of hole 11:45 a.m.	
Total time tester open 50 mins.	

Weight:
 Set on Packer 15,000 lbs. Pull Packer Loose 14,000 lbs.
 Weight drill pipe Before Test 45,000 After Test 56,000
 Mud level in casing Full
 Nature of Blow Strong air blow decreasing at end of flow period
 Maximum Surface Pressure -
 Maximum Trap Pressure -

Gas Flow: N11 MCF/day: How Gauged
 Oil Flow N11 bbls. in hrs: Est. 24-hr. Flow Rate
 Size flow line 2" Inch. I.D. Size Orifice

By
 How Gauged
 inch.

Recovery in Drill Pipe:

		stands	feet	bbls.	Remarks
Free oil	<u>N11</u>				
Mud	<u>N11</u>				
Water	<u>26 1/2</u>		<u>1,600</u>	<u>23</u>	<u>sulphurous salt water</u>
Gravity of oil	-	-	-	-	-
Oil sample obtained	-	-	-	-	-

Water sample obtained Yes

Pressures:

Type of pressure bomb (s) used Kuster AK-1
 Maximum Flowing Pressure 750 PSI
15 Minute Shut in Pressure 1250 PSI
 Static Mud Pressure after unseating packer 1575 PSI
 Mechanically. was Test satisfactory? Yes

REMARKS:

Steady build up in flow pressure. Shut-in pressure stabilized.

Engineer: NORMAN SOUL.

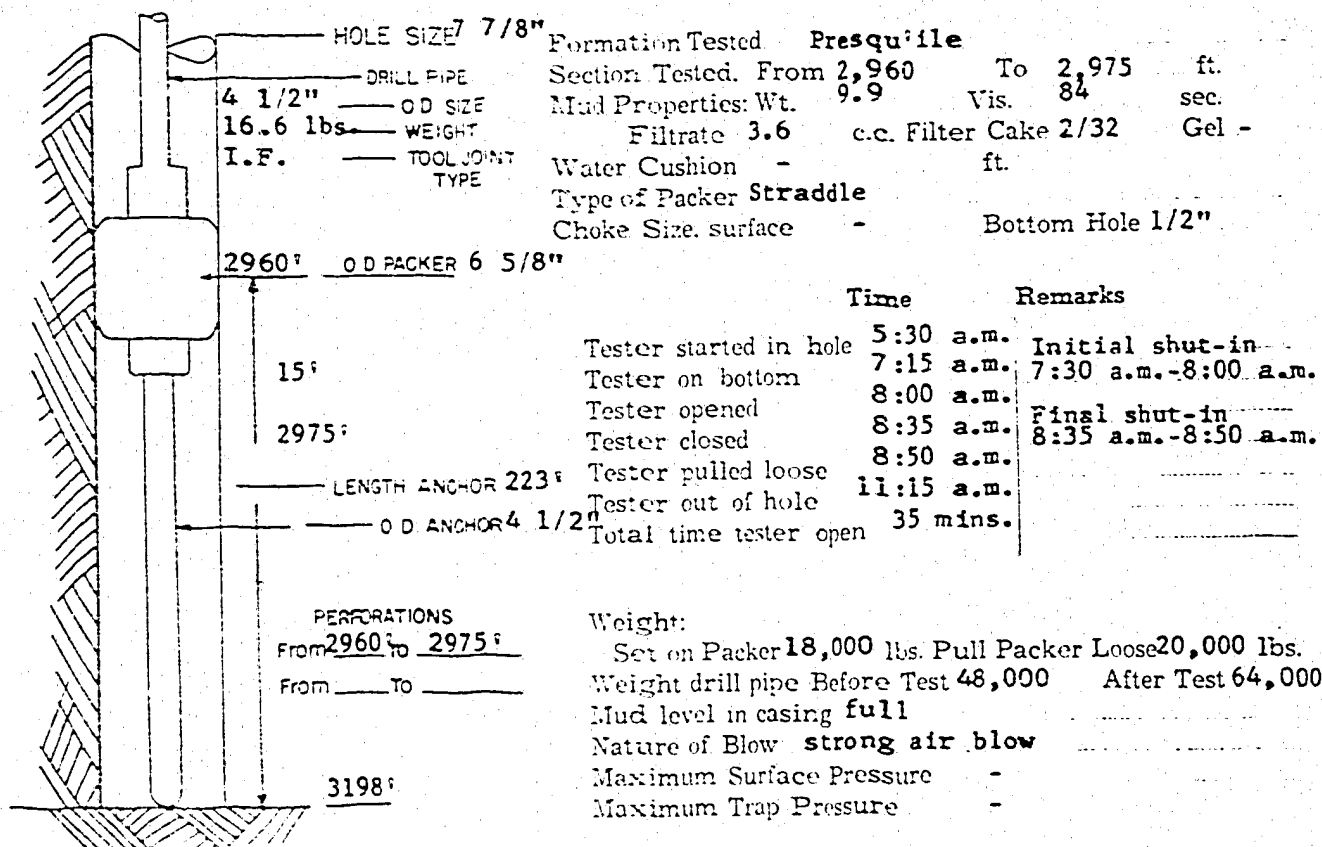
J. C. SPROULE & ASSOCIATES, CALGARY.

DRILL STEM TEST REPORT

West Tathlina Lake
 Well Name Wildcat
 Testing Company Lynes United Services Ltd.
 Date Commenced February 1, 1961

Well No. 4

TEST No. 2 Run No. 1
 District Tathlina Lake
 Province Northwest Territories
 Operator Lyle Gillis
 Date Completed February 1, 1961



Gas Flow: Nil MCF/day: How Gauged
 Oil Flow Nil bbls. in hrs: Est. 24-hr. Flow Rate
 Size flow line 2" Inch. I.D. Size Orifice

By
 How Gauged
 inch.

Recovery in Drill Pipe:

	stands	feet	bbls.	Remarks
Free oil				
Mud				
Water 44	stands	2,650	38	bbls. sulphurous salt water
Gravity of oil	-	° API @	-	F.
Oil sample obtained				Water sample obtained yes

Pressures:

Type of pressure bomb (s) used	Kuster AK-1	
Maximum Flowing Pressure	1,100	PSI
15 Minute Shut in Pressure	1,316	PSI
Static Mud Pressure after unseating packer	1,565	PSI
Mechanically. was Test satisfactory?	yes	

REMARKS:

Steady build up in flow pressure. Shut-in pressure stabilized.

Engineer: NORMAN SOUL.

J. C. SPROULE & ASSOCIATES, CALGARY.

SURFACE CASING TALLYWell Name:

Wilkinson West Tathlina Lake No. 4

Location:

60° 41' 33" North Latitude. 117° 40' 06" West Longitude.

Ran 5 joints (153.10') of 8 5/8" x 24 lbs. J-55.
Landed at 167.90' K.B. Cemented by Howco with 90 sacks
cement, plus 2% CaCl₂.
Plug down at 4:30 a.m. January 18, 1961.

<u>No.</u>	<u>Feet</u>
1	29.02
2	29.30
3	31.64
4	31.07
5	30.17
	151.20
	1.90 - Float Shoe
	153.10 - Total

SAMPLE DESCRIPTION

Well Name: Wilkinson West Tathlina Lake No. 4
Location: 60° 41' 33" North Latitude. 117° 40' 06" West Longitude
Elevation: Ground - 899'
 K. B. - 911'

<u>Depth</u> Feet	<u>Description</u>
0-60	Glacial drift; clay, sand and gravel, permafrost.
60-90	No samples.

UPPER DEVONIANWabamun Group - 60' E-Log

90-110	Limestone, greyish white to cream coloured, dense to finely crystalline.
110-120	Shale, green, hard, non-calcareous.
120-170	Limestone, cream coloured, dense to cryptocrystalline, clean, fossiliferous fragmental in part; traces of light grey, oolitic limestone.
170-230	Limestone, cream coloured, granular and fossiliferous fragmental, reefoidal, slightly argillaceous in part; traces of light grey, oolitic limestone.

Trout River Formation - 223' E-Log

230-250	Limestone, cream coloured, microgranular to granular, silty to sandy.
250-280	Sandstone, grey, fine- to medium-grained, poorly sorted, well rounded quartz grains in a calcareous matrix, some fair to good porosity; minor limestone, light grey, oolitic, sandy.

Grumbler Formation - Kakisa Reef Member - 275' E-Log

280-290	Limestone, light buff to light grey, dense, clean. Limestone, light grey, oolitic, as above.
290-330	Limestone, cream coloured to light grey, dense to microcrystalline, brecciated; Limestone, light brown, fossiliferous fragmental, earthy, brecciated, argillaceous.
330-350	Limestone, cream coloured to buff, granular to fossiliferous fragmental, slightly argillaceous.

<u>Depth Feet</u>	<u>Description</u>
350-360	Siltstone, greyish white, dense, hard, calcareous, cherty, with irregularly disseminated black specks with interbedded cream coloured to buff limestone, as above.
360-370	Limestone, light buff to brown, mottled in part, microcrystalline and microgranular to fragmental, silty and argillaceous, fossiliferous.
370-390	Limestone, greyish white to cream coloured, dense to cryptocrystalline, chalky in part, fossiliferous.
390-400	Siltstone, green, calcareous, pyritic, grading into limestone, green, silty, and sandstone, green, very fine-grained, fossiliferous.
<u>Base of Kakisa Reef Member - 400' E-Log</u>	
400-460	Sandstone, greenish grey, very fine-grained, limy, fossiliferous, traces of glauconite, grades into limestone, greenish grey, granular, sandy.
460-500	Limestone, greenish grey to buff, argillaceous and silty, fossiliferous, grading into siltstone, greenish grey, calcareous, and sandstone, light greenish grey, very fine-grained, calcareous.
500-520	Sandstone, greenish grey, fine-grained, calcareous, argillaceous, traces of glauconite, grading into limestone, greyish white to buff, microgranular, fossiliferous, silty and sandy, pyritic.
520-530	Sandstone, greenish brown, fine- to medium-grained, poorly sorted, calcareous, fossiliferous, argillaceous, pyritic.
530-540	Sandstone, as above, looks like reef debris, very fossiliferous; Trace of shale, dark green, non-calcareous.
540-550	Limestone, buff to greenish grey, microgranular to fossiliferous fragmental, argillaceous, silty, pyritic.
<u>Island River Member - 540'-555' E-Log</u>	
550-560	Limestone, grey to greenish grey, argillaceous and silty, with interbedded shale, green, silty.
560-570	Limestone, cream coloured to light brown, dense to microgranular and fragmental, fossiliferous, argillaceous in part.
570-580	Limestone, light grey to light greenish grey, microgranular to fossiliferous fragmental, silty.
580-590	Limestone, grey to greenish grey, microgranular, argillaceous, silty, with green shale partings, minor fossiliferous fragmental limestone.

<u>Depth Feet</u>	<u>Description</u>
590-600	Limestone, cream to light brown, dense to fragmental, fossiliferous; Siltstone, greenish grey, calcareous, argillaceous.
	<u>Structure Test "C" - 600' E-Log</u>
600-610	Limestone, light grey and light buff, microgranular to fossiliferous fragmental, silty.
610-620	Interbedded shale, green, slightly calcareous, and sandstone, green, fine-grained, calcareous, argillaceous, grading into limestone, greenish grey, sandy and silty.
620-690	Limestone, light grey to buff and greenish grey, microgranular to granular, silty to sandy, fossil fragments, green shale partings.
	<u>Structure Test Marker "M" - 630' E-Log</u>
690-730	Siltstone, grey and greenish grey, calcareous, micromicaceous, fossiliferous, grading to very fine-grained sandstone with inter- bedded shale, green, non-calcareous; minor thin bands of limestone, cream coloured to light brown, fossiliferous fragmental.
730-770	Sandstone, light grey to light greenish grey, fine-grained, cal- careous, micromicaceous, grading into siltstone, as above, fossili- ferous.
770-790	Siltstone, greenish grey, calcareous, micromicaceous; Prominent well rounded pebble of varicoloured chert and quartz.
790-840	Interbedded limestone, grey to greenish grey, silty, fossiliferous, shale, green, non-calcareous, and siltstone, as above. Interbedded siltstone and shale, as above.
840-850	Shale, brown, calcareous.
850-870	Siltstone, green, argillaceous, calcareous, with interbedded shale, green and brown and thin beds of fossiliferous fragmental limestone.
870-880	Shale, brown, calcareous.
	<u>Structure Test Marker "Z" - 880' E-Log</u>
880-910	Limestone, light grey to buff, microcrystalline and microgranular to fossiliferous fragmental.
910-930	Shale, green, calcareous; trace of coquina bed, fossils replaced by iron oxide.
930-950	Shale, green, silty, calcareous.
950-960	Shale, brown, calcareous and green, calcareous.

<u>Depth Feet</u>	<u>Description</u>
960-980	Limestone, light grey, microgranular, silty, fossiliferous, pyritic.
980-1000	Shale, green, calcareous, with thin bands of siltstone and very fine-grained sandstone, grey and greenish grey, limy, fossiliferous.
	<u>Marker "X" - 1,005' E-Log</u>
1000-1030	Limestone, grey to brown, granular to fossiliferous fragmental, silty; Minor interbedded shale, green, calcareous.
1030-1090	Limestone, cream coloured to buff and grey, dense to microgranular, silty in part, fossiliferous; minor interbedded green shale, calcareous.
1090-1120	Limestone, greenish grey and greenish brown, silty and argillaceous, fossiliferous.
1120-1140	Interbedded siltstone, greenish grey, limy, argillaceous, and shale, green, calcareous.
1140-1150	Limestone, cream coloured, dense to fossiliferous fragmental.
1150-1220	Limestone, greenish grey, fossiliferous fragmental, argillaceous, silty, with interbedded shale, green, calcareous.
1220-1230	Limestone, buff, dense to cryptocrystalline, fossiliferous, silty.
1230-1250	Shale, green, calcareous.
1250-1270	Limestone, buff, dense to microgranular, fossiliferous.
1270-1300	Interbedded shale, green, calcareous and siltstone, greenish grey, limy, with thin bands of greenish grey, fossiliferous fragmental limestone, many loose microfossils.
1300-1340	Limestone, buff and greenish grey, dense to fossiliferous fragmental, and minor interbedded shale, green, silty.
1340-1350	Limestone, cream to buff, dense, clean.
1350-1370	Limestone, cream coloured, dense, slickensided.
	<u>Alexandra Formation - 1,360' E-Log</u>
1370-1390	Shale, green, non-calcareous, and siltstone, greenish grey, calcareous.
1390-1410	Limestone, buff, dense, fossiliferous, silty; Minor limestone, buff, fossiliferous fragmental.
1410-1420	Siltstone, greyish green, calcareous.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
1420-1450	Limestone, buff, dense to granular and fossiliferous fragmental; Shale, green, silty, calcareous.
<u>Hay River Formation - 1,444' E-Log</u>	
1450-1500	Shale, green, calcareous, in part silty.
1500-1600	Shale, brown, calcareous, and shale, green, calcareous, silty in part.
1600-1660	Shale, green, calcareous, silty.
1660-1680	Interbedded shale, green, calcareous, and shale, brown, slightly calcareous.
1680-1690	Siltstone, grey and greyish green, limy, pyritic.
1690-1840	Shale, green and greyish green, calcareous, silty.
1840-1870	Limestone, medium grey, argillaceous.
1870-1910	Shale, greyish brown, calcareous, silty, and limestone, dark greenish grey, very argillaceous.
1910-1940	Shale, dark brownish grey and dark greyish green, calcareous.
1940-1970	Limestone, greyish brown, very argillaceous, grading into shale, medium grey to greyish brown, calcareous.
1970-2020	Shale, dark greyish brown, calcareous, silty.
2020-2050	Shale, dark greenish grey, slightly calcareous.
2050-2110	Interbedded shale, green, brown and grey.
2110-2130	Shale, dark brown, non-calcareous, slightly bituminous.
2130-2150	Siltstone, brown, calcareous.
2150-2470	Shale, green, slightly calcareous; minor brown shale, as above.
<u>Spence River Formation - 2,472' E-Log</u>	
2470-2480	Siltstone, dark brown, bituminous, calcareous, argillaceous.
2480-2535	Shale, dark green and dark greenish grey, calcareous to slightly calcareous; prominent pyrite zone associated with brown limestone coquina bed at 2,535'.
2535-2550	Limestone, greyish white to grey and greenish grey, dense to fossiliferous fragmental, pyritic, slickensided.
<u>Slave Point Formation - 2,550' E-Log</u>	

<u>Depth Feet</u>	<u>Description</u>
2550-2555	Limestone, brown, dense to cryptocrystalline, hard, tight, fossiliferous, pyritic.
2555-2560	Limestone, buff to light brown, dense to microgranular, with irregular brown bituminous partings.
2560-2565	Limestone, brown, microgranular to fossiliferous fragmental, reefoidal, some fragments exhibit good porosity.
2565-2575	Limestone, buff to brown, dense to granular and fossiliferous fragmental, traces of porosity.
2575-2585	Limestone, buff to brown, dense to microgranular, with irregular brown bituminous partings.
2585-2590	Limestone, light buff to brown, mottled, granular to fragmental, irregular bituminous partings and traces of dead oil staining, pyritic, earthy lustre, scattered porosity, slickensided.
2590-2610	Limestone, buff to dark brown, dense to cryptocrystalline, and microgranular to granular, slickensided, brecciated, bituminous and stylolitic partings.
2610-2620	Limestone, buff to brown, mottled, granular.
2620-2655	Limestone, buff to brown, mottled, dense, hard; Limestone, granular, as above; fossiliferous, pyritic, bituminous partings.
2655-2670	Limestone, dark brown, dense to cryptocrystalline, hard, bituminous partings.
2670-2675	Limestone, buff to brown, dense, hard, slickensided surfaces.
2675-2685	Limestone, buff to brown, mottled, coarsely granular, scattered porosity, intergranular bituminous material, earthy lustre.
2685-2715	Limestone, light brown, dense to cryptocrystalline.
2715-2725	Limestone, as above, prominent irregular bituminous partings.
<u>Watt Mountain Formation - 2,720' E-Log</u>	
2725-2740	Limestone, buff to dark brown, dense, prominent irregular bituminous partings, slickensided surfaces.
2740-2750	Limestone, brown, dense to lithographic; traces of shale, green, waxy, pyritic, as partings and inclusions; irregular bituminous partings.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
<u>Presqu'ile Formation - 2,750' E-Log</u>	
2750-2755	Limestone, cream coloured, dense, in part chalky.
2755-2765	Limestone, light buff to greyish white, dense, hard.
2765-2770	Limestone, buff, hard, dense with traces of greyish green waxy pyritic shale.
2770-2780	Limestone, buff to brown, dense.
2780-2785	Limestone, greyish white to buff, dense.
2785-2790	Limestone, greyish white to buff, mottled, granular to fragmental, brecciated, irregular partings of greenish grey waxy shale, pyritic.
2790-2795	Limestone, greyish white to buff, dense; Limestone, buff to dark brown, dense to cryptocrystalline.
2795-2830	Limestone, greyish white to buff, dense, in part chalky.
2830-2835	Dolomite, greyish white to light grey and light buff, coarsely crystalline, good porosity.
2835-2850	Dolomite, light brown to buff, microcrystalline to finely crystalline, scattered vugs.
2850-2875	Dolomite, brown to dark brown, microcrystalline, pyritic, scattered vugs, poor scattered porosity.
2875-2890	Dolomite, buff to light brown and light grey, microcrystalline to finely crystalline.
2890-2895	Dolomite, greyish white to light buff, dense to cryptocrystalline, tight.
2895-2900	Dolomite, greyish white to light grey, microcrystalline to coarsely crystalline, good intercrystalline porosity.
2900-2910	Dolomite, light grey to buff, cryptocrystalline to crystalline, scattered vugs with coarse white dolomite crystals, scattered porosity.
2910-2920	Dolomite, buff, crystalline, good intercrystalline porosity.
2920-3040	Dolomite, buff, crystalline, excellent porosity.
3040-3080	Dolomite, buff to light brown, microcrystalline, scattered porosity.

<u>Depth</u> <u>Feet</u>	<u>Description</u>
3080-3090	Dolomite, as above, with prominent coarse white dolomite crystals probably from vugs.
3090-3100	Dolomite, dark brown, microcrystalline, with prominent dark brown bituminous shale partings, hard and tight.
3100-3105	Dolomite, buff to dark brown, mottled, microcrystalline to finely crystalline, bituminous partings.
3105-3110	Dolomite, dark brown, bituminous, microcrystalline, bituminous partings.
3110-3115	Dolomite, buff to dark brown, microcrystalline.
3115-3120	Dolomite, buff to dark brown, crystalline to coarsely crystalline, bituminous, with bituminous partings, fair to good porosity, scattered oil staining.
3120-3130	Dolomite, buff, dense, anhydritic in part.
3130-3135	Dolomite, as above; Minor anhydrite, greyish buff, dense.
3135-3145	Dolomite and anhydrite, buff, dense, hard, interbedded and inter-mixed, dolomite is predominant.
3145-3150	Quartzite, greyish white to pink, with thin irregular partings of bright green shale, non-calcareous.
3150-3155	Limestone, greyish white to cream coloured, dense; Dolomite, buff, microcrystalline.
3155-3175	Sandstone, greyish white with pink tinge, quartzitic, hard, tight, pyritic; Dolomite, as above.
3175-3198	Sandstone, greyish white to pink, quartzitic, hard and tight.
3198	Total Depth.

SUMMARY AND CONCLUSIONS

Well Name: Wilkinson West Tathlina Lake No. 4
Location: 60°41'33" N. Latitude, 117°40'06" W. Longitude

Wilkinson West Tathlina Lake No. 4 was drilled to the Precambrian basement to a total depth of 3,198 feet in January, 1961. Surface casing was cemented at 168 feet and a 7 7/8-inch hole was drilled to total depth. Two formation tests were run, the first covering the top 30 feet of the Presqu'ile dolomite; the second, a straddle test covering a 15-foot interval in the reef, was run after total depth had been reached and the Schlumberger logs had been run and examined. Both tests yielded substantial volumes of salt water.

The stratigraphic section is similar to that found in the previous tests drilled to the Precambrian in the West Tathlina Lake area. The Presqu'ile dolomite appears to be an excellent reservoir from present information, although found to be salt-water laden in the present test. The updip possibilities await further exploration by future drilling.

The well was plugged and abandoned in accordance with Government regulations.

Norman Soul
Norman Soul, P. Geol.

S. R. L. Harding
S. R. L. Harding, P. Geol.

1009 Fourth Avenue S. W.,
Calgary, Alberta.
April 26, 1961.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton

Fort St. John

Calgary

WATER ANALYSIS REPORT

Field N.W.T. Well No. Wilkinson West Tathlina #4
 Operator James C. Wilkinson 60° 41' 33" N. Lat. 117° 40' 06" W. Long.
J.L. Sproule & Associates Ltd. Date Received February 8, 1961
 Formation _____ Depths 2830' - 2860'
 Other pertinent data D.S.T. #1

Date February 16, 1961 Lab. No. C 3592-1

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na + K	Ca	Mg	Fe	SO ₄	Cl	CO ₃	HCO ₃	OH	H ₂ S
23,931	5,809	2,274	---	35	53,250	---	940	---	High present

MILLIGRAM EQUIVALENTS

1041.01	289.87	186.92		0.73	1501.65		15.42		
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MILLIGRAM EQUIVALENTS IN PERCENT

34.29	9.55	6.16		0.02	49.47		0.51		
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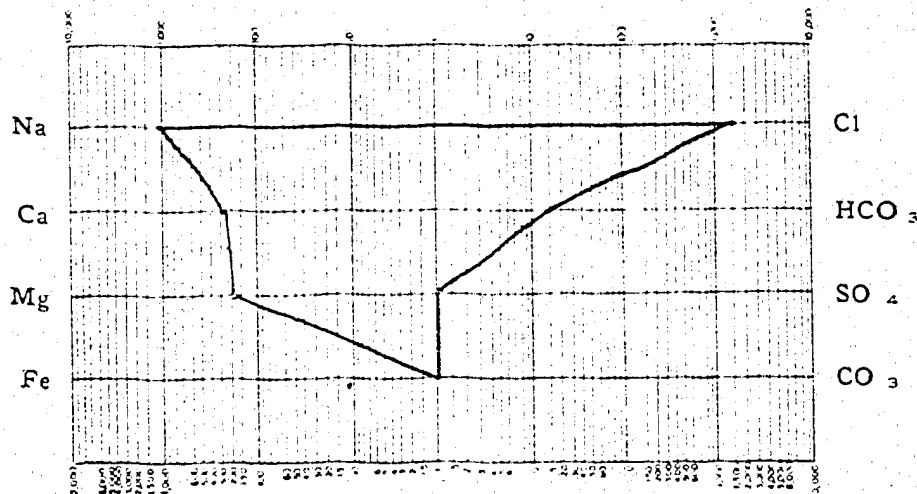
Total Solids in Parts per Million

By evaporation 104,440
 After ignition 83,490
 Calculated 85,762
 Specific Gravity 1.061
 Observed pH 6.6
 Resistivity 0.104 ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity 68.58
 Secondary salinity 30.40
 Primary alkalinity ---
 Secondary alkalinity 1.02
 Chloride salinity 99.96
 Sulfate salinity 0.04

Remarks and conclusions Organic matter present in the total solids. This sample is slightly dilute than other waters from the same general area. This sample came from a formation 300 feet higher than others in our file.

LOGARITHMIC PATTERN
MEQ per unit

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

Edmonton

Fort St. John

Calgary

WATER ANALYSIS REPORT

Field N.W.T. Well No. Wilkinson West Tathlina #4
 Operator James C. Wilkinson 60° 41' 33" N. Lat. 117° 40' 06" W. Long.
c/o J. C. Sproule & Associates Ltd. Date Received February 8, 1961
 Formation _____ Depths 2960' - 2975'
 Other pertinent data D.S.T. #2

Date February 16, 1961 Lab. No. C3592-2

PARTS PER MILLION (MILLIGRAMS PER LITER)

Na & K	Ca	Mg	Fe	SO ₄	Cl	CO ₃	HCO ₃	OH	H ₂ S
25,900	6,465	2,331	---	94	57,500	---	1,060	---	High present

MILLIGRAM EQUIVALENTS

1126.63	322.60	191.61		1.96	1621.50		17.38		
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MILLIGRAM EQUIVALENTS IN PERCENT

34.33	9.83	5.84		0.06	49.41		0.53		
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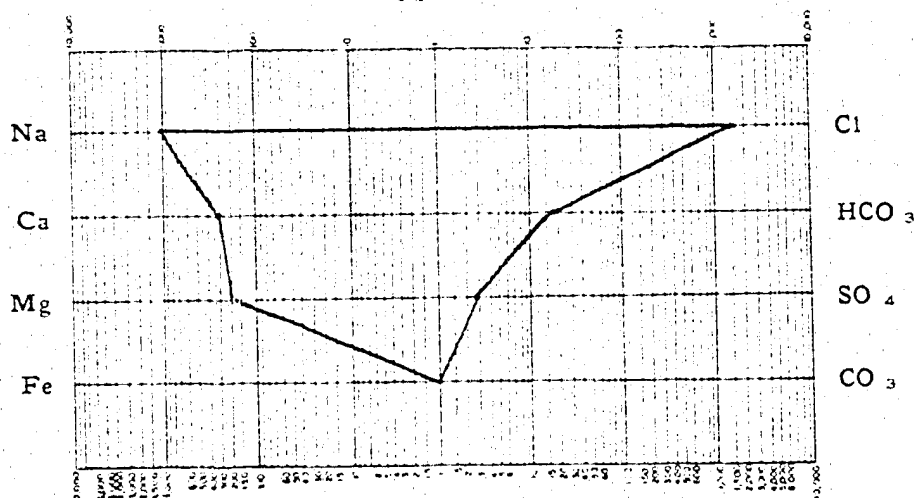
Total Solids in Parts per Million

By evaporation 122,200
 After ignition 91,890
 Calculated 92,812
 Specific Gravity 1.066
 Observed pH 6.6
 Resistivity 0.098 ohm meters @ 68° F.

Properties of Reaction in Percent

Primary salinity 68.66
 Secondary salinity 30.28
 Primary alkalinity ---
 Secondary alkalinity 1.06
 Chloride salinity 99.87
 Sulfate salinity 0.13

Remarks and conclusions Organic matter present in total solids. This sample has the same general characteristics as other waters from the same approximate depth in the same general area.

LOGARITHMIC PATTERN
MEQ per unit

DA 94

DEPARTMENT OF NATURAL RESOURCES
NORTHWEST TERRITORIES
REVENUE DIVISION

NOTICE OF INTENTION TO BEGIN DRILLING OPERATIONS

~~TO OBTAIN OIL & GAS PERMIT~~

In accordance with Section 54 of the Territorial Oil and Gas Regulations, notice is hereby given of our intention to begin drilling a well on Oil and Gas Permit No. 887 registered in the name of Lease No.

JAMES C. WILKINSON NOMINEE ACCOUNT
A. M. LLOYD, Operator

TYPE OF WELL:

Wildcat Yes
Development

Expected total depth 5,300 feet, in the Granite formation of Precambrian age.

The well will be located at 60° 41' 33" N. Lat. 117° 40' 06" W. Long. 9,400 (N. of S. boundary) of (Permit No. 887) 14,600 (S. of N. boundary) of (Lease No.) (W. of E. boundary) of (Permit No. 887) (E. of W. boundary) (Lease No.)

Survey description of Location, if known

Approximate surface elevation of 900 feet above sea level.

Name of well WILKINSON WEST TATHILNA LAKE NO. 4

Type of drilling rig Rotary

Expected date of commencement, January, 1961

We propose to use the following strings of casing, cementing them as indicated below:

Size O.D. Inches	Weight lbs/ft	Grade	Brand	Use or Used	Estimated Depth	Sacks of Cement
1. 3 5/8"	24	J-55		New	200	125
2.						
3.						

Expected depth of water, gas and oil horizons and method of control:
Various zones between 2,500 feet and 3,300 feet.
To be controlled by sufficient drilling fluid of proper density and the
use of a blowout preventer.

will will
An electric log be run Other logs be run
will-not will-not

STRUCTURE TEST PROGRAM

Proposed number of holes Maximum well depth
enclosed within an area bounded by

. N. Latitudes

. W. Longitudes

will will
An electric log be run Other logs be run
will not will not

Name and address of drilling contractor . GUTHRIE McLAREN DRILLING LTD. . .
Box 638
11810 - 124th Street,
EDMONTON, Alberta.

Responsible agents of permittee or lessee in charge of operation:

At well Art Whiting Postal address Hay River N.W.T.

At registered J. C. Sproule and 1004 Fourth Avenue S.W.,
office Associates Ltd. Postal address Calgary, Alberta.

It is understood that if changes in this Notice of Intention become
necessary we will promptly notify you.

Dated at Calgary . this 10th day of January, . . . 1961. . . .

Signed by J. C. Sproule and Associates Ltd.

This program is approved subject to the following provisions (if any):

. Because of the delays which will be caused by the remoteness of your . .
. operation in furnishing the daily drilling reports each week to my office
. oral, or if preferred, written reports on the progress of the well are to
. be sent based on the daily reports you receive by radio.

13 January, 1961.

Date

Oil Conservation Engineer.

(To be submitted in triplicate to the Oil Conservation Engineer at
least 15 days prior to the commencement of drilling)

James C. Wilkinson Nominee Account
COMPANY

Wilkinson West Tathlina Lake #4
WELL NAME AND NUMBER

1
TEST NO.

DA94
January 27, 1961
DATE

LYNES UNITED SERVICES LTD.

104 - 61st AVENUE S.E., Sub. P.O. 28, CALGARY, ALBERTA

SERVICE REPORT

UNITED TESTERS LTD.

1000 - 10th Ave. West



Calgary, Alberta

Phone CHerry 4-0506

Presquite

PRESSURE READINGS

Outside:

REC. NO. 1097 CAP. 4100 DEPTH 2845'

POINTS

TYPE OF TEST Formation

INTERVAL TESTED 2830' to 2860'

HOLE SIZE 7 7/8" MUD WT. 10.6

FLUID CUSHION Nil

FLOW PERIOD 51 Minutes

INITIAL SHUT-IN PER 31 Minutes

FINAL SHUT-IN PER 15 Minutes

BLOW Good initial puff, strong air
blow decreasing at end of flow
period.

FLUID RECOVERY 1600' sulphur

salt water.

TEMP. M.C.F.

SUR. CHOKE BOT. CHOKE 1/2"

TICKET NO. 1276

INITIAL HYD. 1585 1

INITIAL SHUT-IN 1249 2

INITIAL FLOW 118 3

FINAL FLOW 767 4

FINAL SHUT-IN 1247 5

FINAL HYD. 1583 6

PRESSURE READINGS

Outside:

REC. NO. 1135 CAP. 4500 DEPTH 2850'

POINTS

INITIAL HYD. 1590 1

INITIAL SHUT-IN 1249 2

INITIAL FLOW 124 3

FINAL FLOW 767 4

FINAL SHUT-IN 1246 5

FINAL HYD. 1588 6

REMARKS

James C. Wilkinson Nominee Acct.

Wilkinson West Tathlina Lake #4

D.S.T. #1, January 27th, 1961

PRESSURES ON BUILD-UP

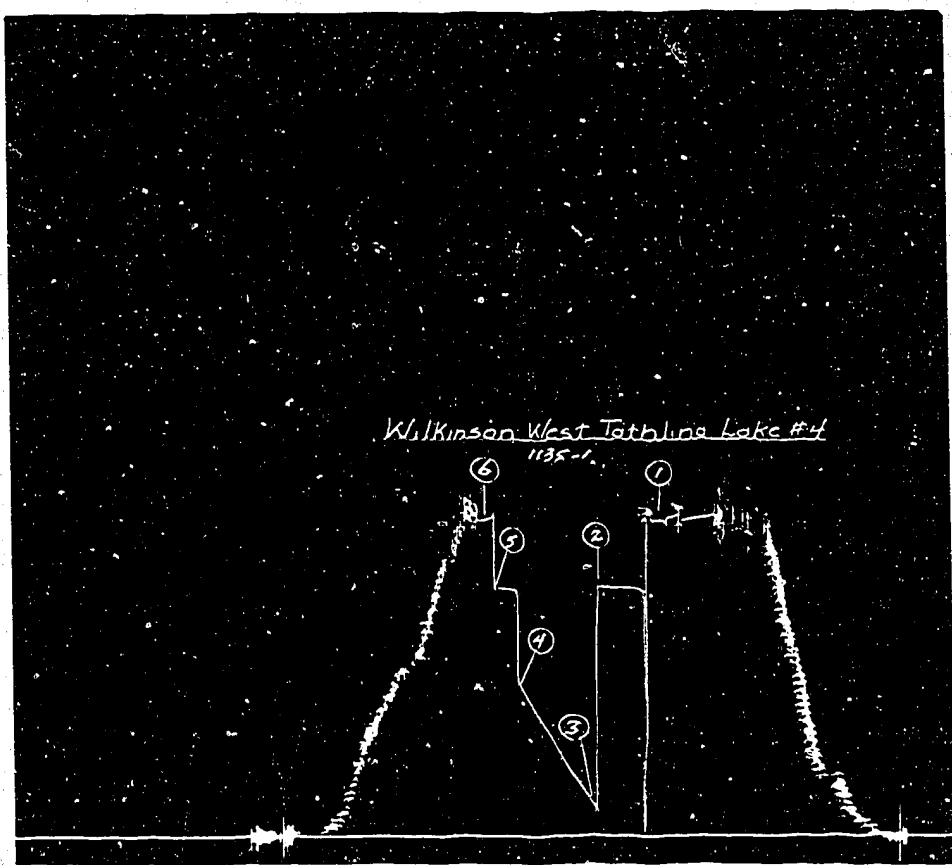
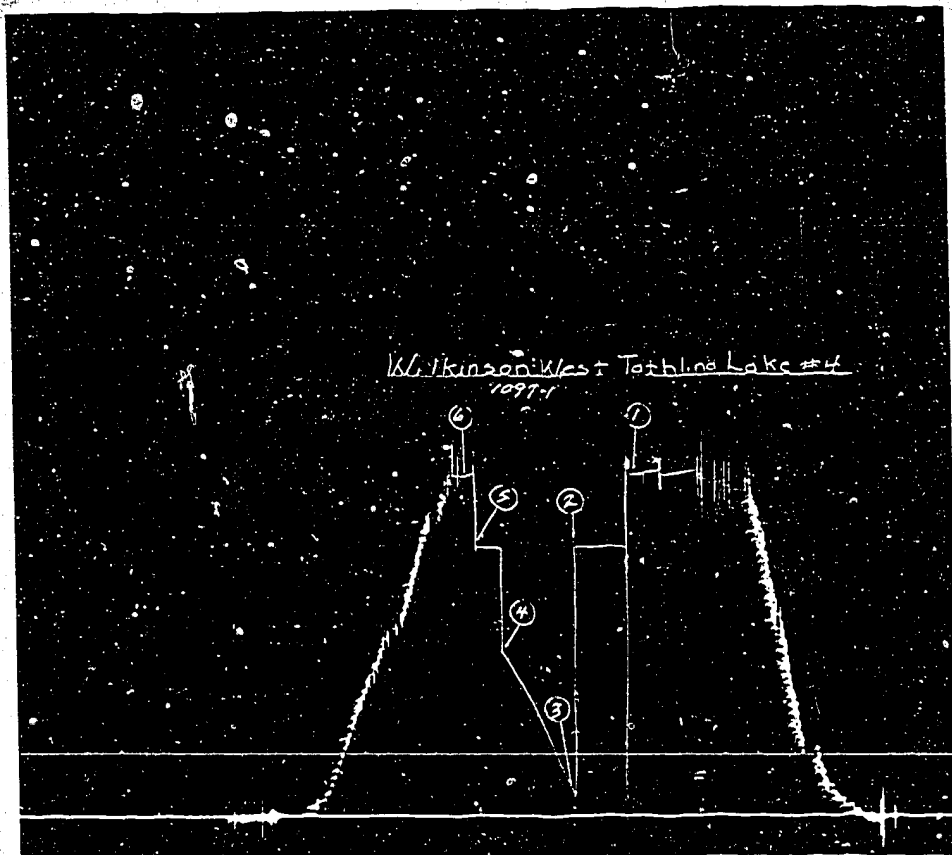
James C. Wilkinson Nominee Account
COMPANY

Wilkinson West Tathline Lake #4
WELL NAME AND NUMBER

TEST NO. 1

January 27, 1961
DATE

DN 94



James C. Wilkinson Nominee Account
COMPANY

Wilkinson West Tarchina Lake #4
WELL NAME AND NUMBER

2
TEST NO.

February 1, 1961
DATE

DB94

LYNES UNITED SERVICES LTD.

104 - 61st AVENUE S.E. Sub. P.O. 28, CALGARY, ALBERTA

SERVICE REPORT

UNITED TESTERS LTD.

1000 - 10th Ave. West



Calgary, Alberta

Phone CHerry 4-0506

Presquile

PRESSURE READINGS

TYPE OF TEST Formation-Straddle
 Total Depth: 3198'
 INTERVAL TESTED 2960' to 2975'
 HOLE SIZE 7 7/8" MUD WT. 9.9
 FLUID CUSHION Nil
 FLOW PERIOD 35 Minutes
 INITIAL SHUT-IN PER 30 Minutes
 FINAL SHUT-IN PER 15 Minutes
 BLOW Good initial puff, strong air
thru'out flow period.
 FLUID RECOVERY 2650' sulphurous salt
water.
 TEMP. M.C.F.
 SUR. CHOKE BOT. CHOKE 1/2"
 TICKET NO. 1278

Outside:
 REC. NO. 1097 CAP. 4100 DEPTH 2967'
 POINTS
 INITIAL HYD. 1553 1
 INITIAL SHUT-IN 1302 2
 INITIAL FLOW 335 3
 FINAL FLOW 1115 4
 FINAL SHUT-IN 1300 5
 FINAL HYD. 1553 6

PRESSURE READINGS

Outside:
 REC. NO. 1135 CAP. 4500 DEPTH 2971'
 POINTS
 INITIAL HYD. 1554 1
 INITIAL SHUT-IN 1305 2
 INITIAL FLOW 338 3
 FINAL FLOW 1114 4
 FINAL SHUT-IN 1303 5
 FINAL HYD. 1554 6

REMARKS

James C. Wilkinson Nominee Acct.
 Wilkinson West Tathlina Lake #4
 D.S.T. #2, February 1, 1961

PRESSURES ON BUILD-UP

Rec. #5, Cap. 5000, Depth: 3190'
 Initial Hyd. 1670
 Drawdown 1375
 Final Hyd. 1665

James C. Wilkinson Nominee Account
COMPANY

Wilkinson West Tathlina Lake #4
WELL NAME AND NUMBER

TEST NO. 2

February 1, 1961
DATE

D094

