

CODECO CONSULTING (2000) INC.

DAILY DRILLING REPORT

410, 311 - 6th Avenue S.W.
Calgary, Alberta T2P 3H2
Phone: (403)237-7808
Fax: (403)265-1760

Well Name: Devlan et al Thunder River N-73 67°30'131°15'Date: 11-Mar-01 Day: 15Depth: 1135 mKB Progress: 74 m Drlg.: 23.00 hrs. Drill Rate: 3.22 m/hr Rig: Akita #14Operation: Drilling ahead.

Bit No.	Size	Type	Serial Number	In	Out	Meters	Hours	Weight	RPM	Nozzles	Condition
4	200	EDT17XC	164008	944		191	64.25	12	75/85	3 x 11.1	IN
		Pump No. 1	Pump No. 2			Desander	Desilter	Centrifuge			
Model		F-500		Underflow Density							
Liner/Stroke		152 x 191		Overflow Density							
SPM		105		Flow Rate, l/min							
Volume		1.09		Operating Hours							

Pump Pressure: 6,150 kPa Ann. Vel.: DC: 94 m/min DP 47 m/min Jet Vel.: m/sec kW: Drilling Assembly: Vit, shock sub, 12 - 159mm DCs, X-over, 101mm DP

SURVEYS			MUD		ADDITIVES (SACKS)			
Depth (mKB)	Inclination (deg)	Direction (deg)	Weight	1045	Caustic	2		
1100	2.25		Viscosity	51	Gel	45		
			pH	10.0	Lignite	2		
			Water Loss	8.8	Aquapac	3		
			P.V.	16.0	Sawdust	15		
			Y.P.	9.0	Kwik Seal	4		
			Gels	3/5	Celloflake	2		
			Filter Cake	2				
			Solids	0.03			Day Cost	3,005
			Oil				Well Cost	26,470

Core No. Size/Type: In: mKB Out: mKB Meters Rec.: %
 DST No.: Formation: Interval: to PF: ISI: VO: FSI:

RIG TIME

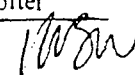
1. Drill	23.00	7. Clean to Bottom	13. Cement	19. Rig Up
2. Rig Service	0.75	8. Core	14. WOC	20. <u> </u>
3. Trip		9. DST	15. Nipple Up	21. <u> </u>
4. Survey	0.25	10. Log	16. Pressure Test	22. <u> </u>
5. Circ./Cond.		11. Handle Tools	17. Repair	23. <u> </u>
6. Ream		12. Run Casing	18. Slip/Cut	24. <u> </u>

REMARKS

0800 - 0815: Rig service. 0815 - 1600: Drill ahead, screening out LCM. 1600 - 1615: Rig service. 1615 - 2100: Drill ahead, screening out LCM. 2100 - 2115: Survey at 1100m. 2115 - 2400: Drill ahead, screening out LCM. 0000 - 0015: Rig service. 0015 - 0800: Drill ahead, screening out LCM.

Centrifuge running at 1400 hours.

Well Cost: 59,054 Cum. Cost: 1,078,603 AFE No.: AFE Amount
 Weather: Overcast -26C Supervisor: Erwin Alyea Mobile: 403-997-2529 Taken By: Michael Woofler



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Well Name: Devlan et al Thunder River N-73 67°30'131°15'

Date: 10-Mar-01 Day: 14

Depth: 1061 mKB Progress: 40 m Drlg.: 13.50 hrs. Drill Rate: 2.96 m/hr Rig: Akita #14

Operation: Drilling ahead.

Bit No.	Size	Type	Serial Number	In	Out	Meters	Hours	Weight	RPM	Nozzles	Condition
4	200	EDT17XG	164008	944		117	41.25	12	100/85	3 x 11.1	IN
		Pump No. 1	Pump No. 2			Desander	Desilter	Centrifuge			
Model		F-500		Underflow Density				1240			
Liner/Stroke		152 x 191		Overflow Density				1040			
SPM		110		Flow Rate, l/min				7			
Volume		1.14		Operating Hours				24.00			

Pump Pressure: 5,500 kPa Ann. Vel.: DC: 99 m/min DP 50 m/min Jet Vel.: m/sec kW:

Drilling Assembly: Bit, shock sub, 12 - 159mm DCs, X-over, 101mm DP

SURVEYS			MUD		ADDITIVES (SACKS)			
Depth (mKB)	Inclination (deg)	Direction (deg)	Weight		Gel	10		
			Viscosity		Caustic	1		
			pH		Sawdust	171		
			Water Loss		Lignite	1		
			P.V.		Kwik Seal	76		
			Y.P.		Celloflake	37		
			Gels		Aquapac	2		
			Filter Cake					
			Solids				Day Cost	9,038
			Oil				Well Cost	23,465

Core No. Size/Type: In: mKB Out: mKB Meters Rec.: %
 DST No.: Formation: Interval: to PF: ISI: VO: FSI:

RIG TIME

1. Drill	13.50	7. Clean to Bottom		13. Cement		19. Rig Up	
2. Rig Service	0.25	8. Core		14. WOC		20. Mix LCM	7.75
3. Trip		9. DST		15. Nipple Up		21.	
4. Survey		10. Log		16. Pressure Test		22.	
5. Circ./Cond.	2.50	11. Handle Tools		17. Repair		23.	
6. Ream		12. Run Casing		18. Slip/Cut		24.	

REMARKS

0800 - 1545: At 1019m penetration at 60 mph for 0.5m, picked up immediately, lost 0.5m³. Lost another 1.5m³ before pumping pill #1. Total losses to 0900 hours +/- 7.5m³. Mixing pills in rig tanks, premixing in premix tank to build volume. Pumped pill #6, blew kelly, filled from the top for 1 hour, gauging fill volume. Circulate bottoms up, take mud check, no changes in reology. Hole stable after 9 pills. Circulate (10m up) and build volume in premix tank. Go to bottom, fractures, high torque. 1545 - 1915: Drill ahead with minor losses. Drilled to 1035m, gained 2.5m³ in tanks. Flow check showed well flowing. Shut in, SICP = 750 kPa and SIDPP = 600 kPa.

DEVLA: T AL THUNDER RIVER N-73

DATE: 10-MAR-01

DAY: 14

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1915 - 2145: Circulate 1 circulation through open choke. Open choke, well flowing. Circulate and 120 spm, losing slightly, at 110 spm volume stable. Blow out manifold. 2145 - 2400: Drill ahead. 0000 - 0015: Rig service. 0015 - 0800: Drill ahead.

Well Cost: 52,779 Cum. Cost: 1,019,549 AFE No.: AFE Amount
Weather: Clear/Calm -27C Supervisor: Erwin Alyea Mobile: 403-997-2529 Taken By: Michael Woofler

MSW