

DRILL STEM TEST REPORT

Pintail Petroleum Ltd **Shramek #1-24**
 P O Box 905 **24-19S-24W Ness**
 McPherson KS 67460 Job Ticket: 17687 **DST#: 1**
 ATTN: Flip Phillip Test Start: 2003.08.31 @ 17:00:00

GENERAL INFORMATION:

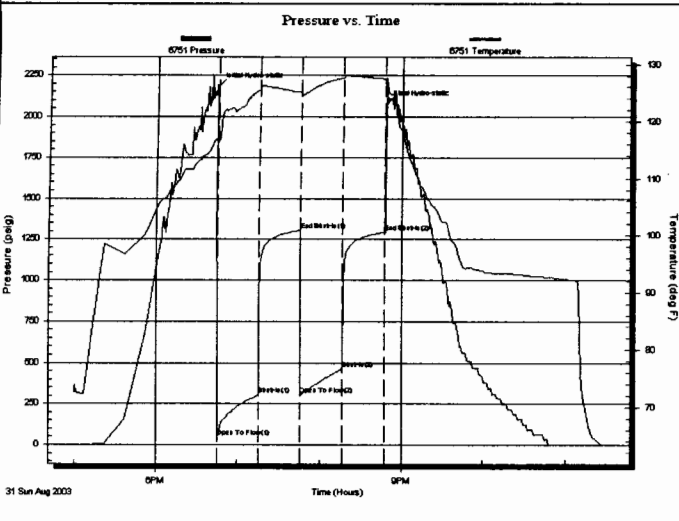
Formation: **Cherokee**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 18:45:15
 Time Test Ended: 23:28:15
 Test Type: **Conventional Bottom Hole**
 Tester: **Rod Steinbrink**
 Unit No: **22**
 Interval: **4336.00 ft (KB) To 4396.00 ft (KB) (TVD)**
 Total Depth: **4396.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Reference Elevations: **2289.00 ft (KB)**
2284.00 ft (CF)
 KB to GR/CF: **5.00 ft**

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Serial #: 6751 **Inside**

Press@RunDepth: **465.20 psig @ 4337.00 ft (KB)** Capacity: **7000.00 psig**
 Start Date: **2003.08.31** End Date: **2003.08.31** Last Calib.: **1899.12.30**
 Start Time: **17:00:02** End Time: **23:28:15** Time On Btm: **2003.08.31 @ 18:45:00**
 Time Off Btm: **2003.08.31 @ 20:48:15**

TEST COMMENT: IF; Fair to strong off bttm 6 mins
 IS; No return
 FF; Weak to fair off bttm 7 mins
 FS; No return



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2183.58	116.94	Initial Hydro-static
1	49.52	116.48	Open To Flow (1)
31	304.82	125.52	Shut-In(1)
61	1303.94	125.11	End Shut-In(1)
61	304.93	124.61	Open To Flow (2)
92	465.20	127.61	Shut-In(2)
122	1292.47	127.43	End Shut-In(2)
124	2078.52	127.53	Final Hydro-static

Recovery			
Length (ft)	Description	Volume (bbl)	
370.00	MW 90%w 10%m	2.93	
185.00	GOMCW 10%g 10%o 50%w 30%m	2.60	
500.00	GOMCW 15%g 35%o 40%w 10%m	7.01	
25.00	OCM 10%o 90%m	0.35	

Gas Rates			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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TOOL DIAGRAM

Pintail Petroleum Ltd
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McPherson KS 67460
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Tool Information

Drill Pipe:	Length: 4081.00 ft	Diameter: 3.80 inches	Volume: 57.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 248.00 ft	Diameter: 2.25 inches	Volume: 1.22 bbl	Weight to Pull Loose: 65000.00 lb
			Total Volume: 58.47 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4336.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	60.00 ft			
Tool Length:	87.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

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Tool Description Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			4314.00	
Hydraulic tool	5.00			4319.00	
Jars	5.00			4324.00	
Safety Joint	2.00			4326.00	
Packer	5.00			4331.00	27.00 Bottom Of Top Packer
Packer	5.00			4336.00	
Stubb	1.00			4337.00	
Recorder	0.00	6751	Inside	4337.00	
Perforations	21.00			4358.00	
Change Over Sub	1.00			4359.00	
Anchor	31.00			4390.00	
Change Over Sub	1.00			4391.00	
Recorder	0.00	13309	Outside	4391.00	
Bullnose	5.00			4396.00	60.00 Bottom Packers & Anchor

Total Tool Length: 87.00



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FLUID SUMMARY

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Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	20000 ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
370.00	MW 90%w 10%m	2.931
185.00	GOMCW 10%g 10%o 50%w 30%m	2.595
500.00	GOMCW 15%g 35%o 40%w 10%m	7.014
25.00	OCM 10%o 90%m	0.351

Total Length: 1080.00 ft Total Volume: 12.891 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: RW .35 @ 70 deg = 20,000 Chlorides

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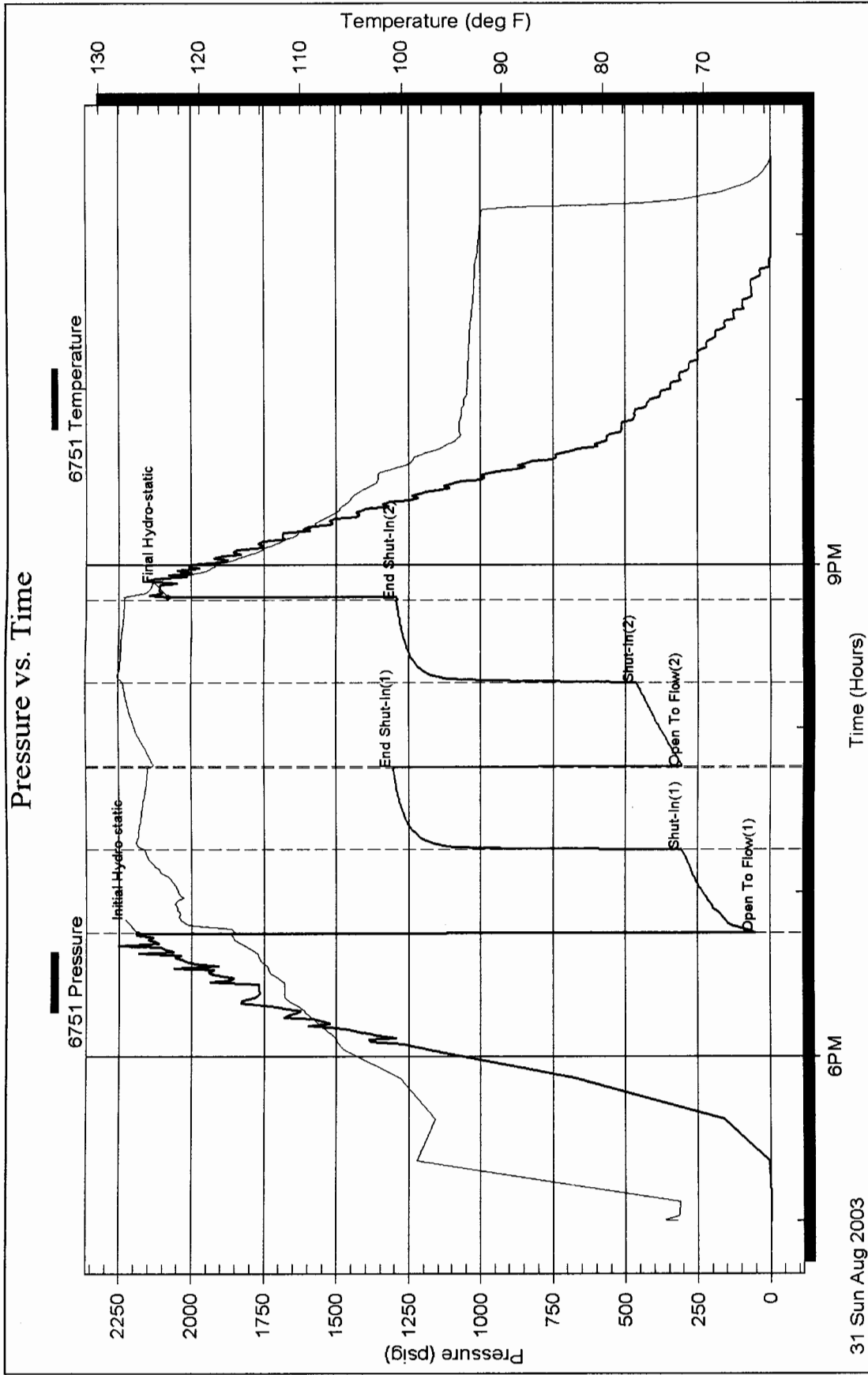
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Inside

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24-19S-24W Ness

DST Test Number: 1



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