

**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Prepared For: **Pintail Pet**

225 N Market Ste 300  
Wichita, Ks

**CONFIDENTIAL**

ATTN: Flip Phillips  
OCT 15 2009

**1 21 25 Hodgeman KS**

**Hoss-Dearth #1-1**

Start Date: 2008.10.22 @ 14:52:13

End Date: 2008.10.22 @ 22:30:13

Job Ticket #: 33533                      DST #: 1

Trilobite Testing, Inc

PO Box 1733 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Pintail Pet

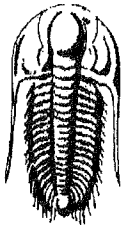
Hoss-Dearth #1-1

1 21 25 Hodgeman KS

DST # 1

Miss

2008.10.22



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TESTING, INC**

# DRILL STEM TEST REPORT

Pintail Pet  
225 N Market Ste 300  
Wichita, Ks  
ATTN: Flip Phillips

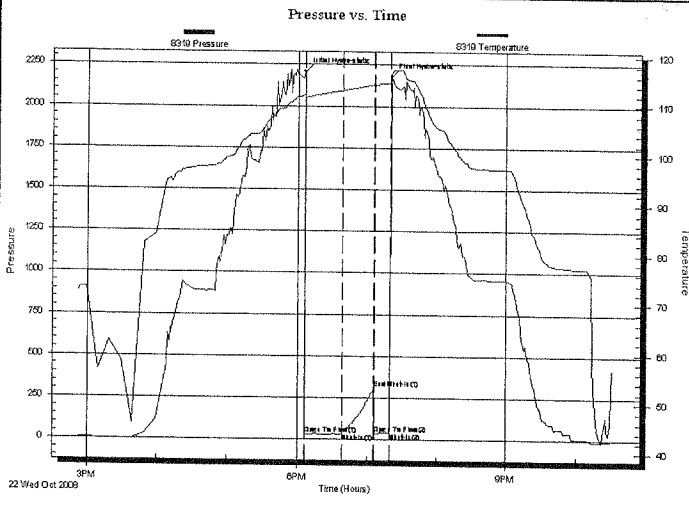
**Hoss-Dearth #1-1**  
**1 21 25 Hodgeman KS**  
Job Ticket: 33533      DST#: 1  
Test Start: 2008.10.22 @ 14:52:13

## GENERAL INFORMATION:

Formation: **Miss**  
Deviated: No      Whipstock:      ft (KB)  
Time Tool Opened: 18:05:43  
Time Test Ended: 22:30:13  
Interval: **4380.00 ft (KB) To 4450.00 ft (KB) (TVD)**  
Total Depth: 4450.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches      Hole Condition: Fair  
Test Type: Conventional Bottom Hole  
Tester: Kyle Kinderknecht  
Unit No: 31  
Reference Elevations: 2331.00 ft (KB)  
2326.00 ft (CF)  
KB to GR/CF: 5.00 ft

**Serial #: 8319      Inside**  
Press@RunDepth: 33.17 psig @ 4383.00 ft (KB)      Capacity: 7000.00 psig  
Start Date: 2008.10.22      End Date: 2008.10.22      Last Calib.: 2008.10.22  
Start Time: 14:52:18      End Time: 22:30:12      Time On Btm: 2008.10.22 @ 18:05:13  
Time Off Btm: 2008.10.22 @ 19:20:13

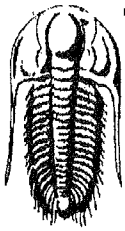
TEST COMMENT: IF 1/4" flushed tool weak surface died 5 min  
FF Weak surface flushed tool weak surface out of hole



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2207.80	112.11	Initial Hydro-static
1	31.86	111.59	Open To Flow (1)
33	33.17	113.07	Shut-In(1)
61	309.12	114.28	End Shut-In(1)
61	35.50	114.19	Open To Flow (2)
74	40.76	114.63	Shut-In(2)
75	2179.02	116.20	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
15.00	SitOCM 1%O 99%M	0.07

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



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# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Pintail Pet  
225 N Market Ste 300  
Wichita, Ks  
ATTN: Flip Phillips

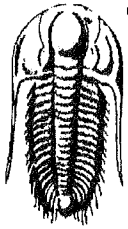
**Hoss-Deearth #1-1**  
**1 21 25 Hodgeman KS**  
Job Ticket: 33533      DST#: 1  
Test Start: 2008.10.22 @ 14:52:13

**Tool Information**

Drill Pipe:	Length: 4148.00 ft	Diameter: 3.82 inches	Volume: 58.80 bbl	Tool Weight: 1500.00 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 63000.00 lb
			<u>Total Volume: 60.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4380.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	90.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4361.00	
Shut In Tool	5.00			4366.00	
Hydraulic tool	5.00			4371.00	
Packer	4.00			4375.00	20.00      Bottom Of Top Packer
Packer	5.00			4380.00	
Stubb	1.00			4381.00	
Perforations	1.00			4382.00	
Change Over Sub	1.00			4383.00	
Recorder	0.00	8319	Inside	4383.00	
Recorder	0.00	8369	Inside	4383.00	
Blank Spacing	63.00			4446.00	
Change Over Sub	1.00			4447.00	
Bullnose	3.00			4450.00	70.00      Bottom Packers & Anchor

**Total Tool Length: 90.00**



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Pintail Pet  
225 N Market Ste 300  
Wichita, Ks  
ATTN: Flip Phillips

**Hoss-Dearth #1-1**  
**1 21 25 Hodgeman KS**  
Job Ticket: 33533      **DST#: 1**  
Test Start: 2008.10.22 @ 14:52:13

## 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:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	SitOCM 1%O 99%M	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

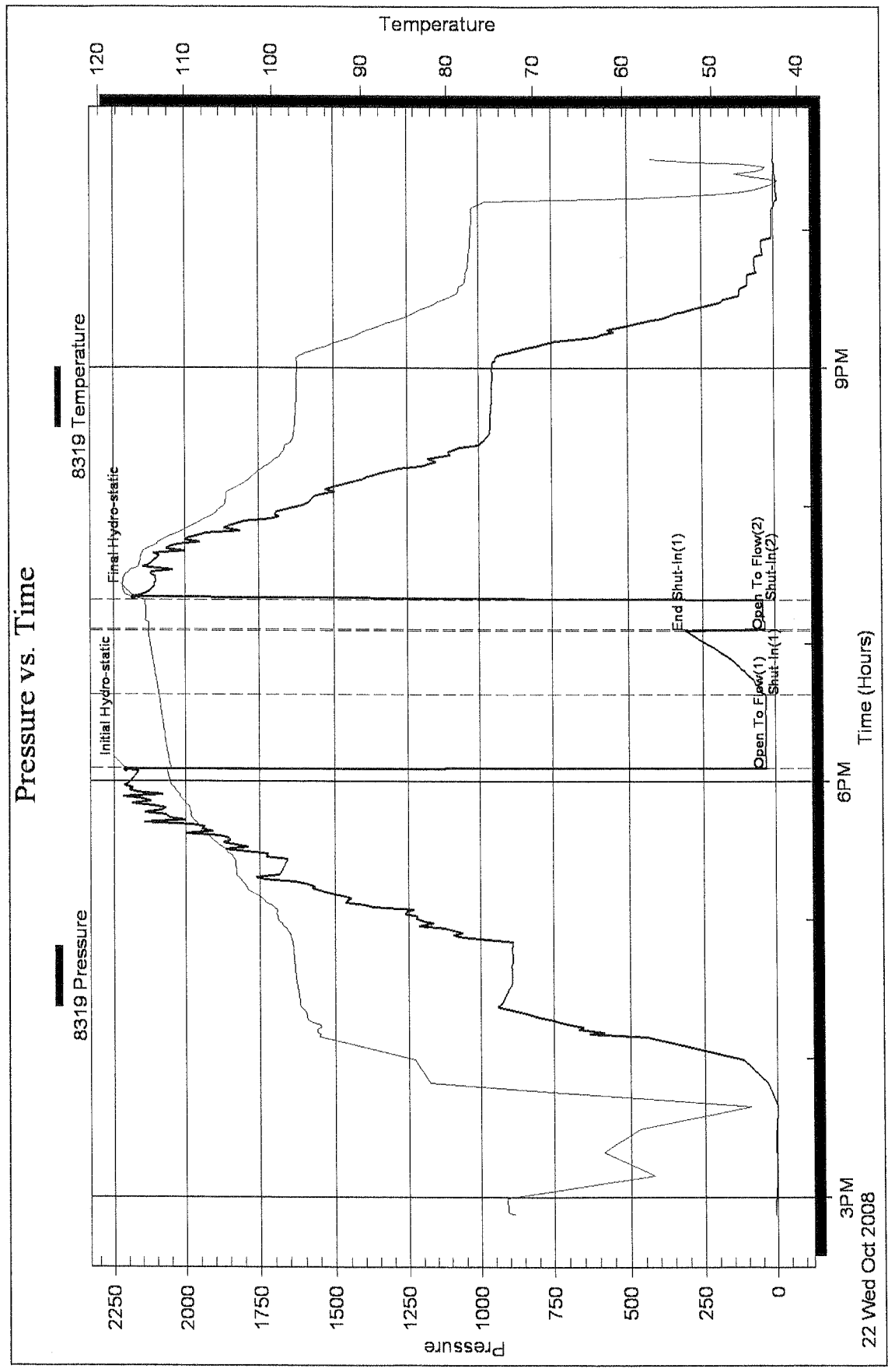
Serial #: 8319

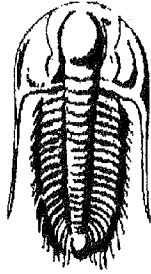
Inside

Final Pet

1 21 25 Hodgeman KS

DST Test Number: 1





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## DRILL STEM TEST REPORT

Prepared For: **Pintail Pet**

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ATTN: Flip Phillips

**1 21 25 Hodgeman KS**

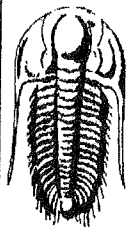
**Hoss-Dearth #1-1**

Start Date: 2008.10.23 @ 06:48:18

End Date: 2008.10.23 @ 14:48:18

Job Ticket #: 33534                      DST #: 2

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# DRILL STEM TEST REPORT

Pintail Pet  
 225 N Market Ste 300  
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 ATTN: Flip Phillips

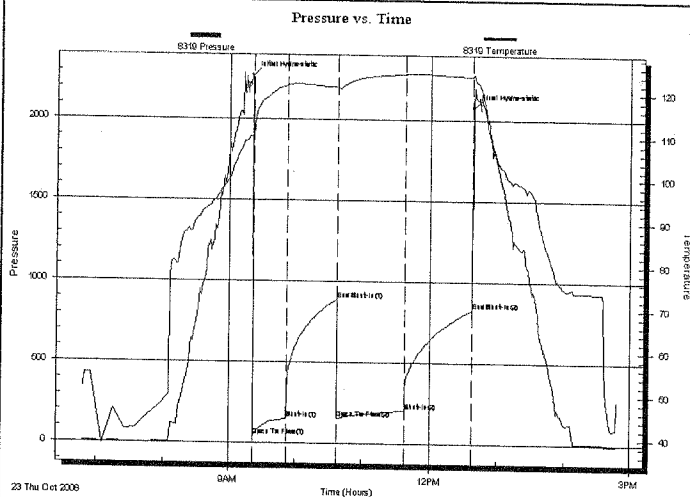
**Hoss-Dearth #1-1**  
**1 21 25 Hodgeman KS**  
 Job Ticket: 33534      **DST#: 2**  
 Test Start: 2008.10.23 @ 06:48:18

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:21:18  
 Time Test Ended: 14:48:18  
 Interval: **4440.00 ft (KB) To 4461.00 ft (KB) (TVD)**  
 Total Depth: 4461.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole  
 Tester: Kyle Kinderknecht  
 Unit No: 31  
 Reference Elevations: 2331.00 ft (KB)  
 2326.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8319**      **Inside**  
 Press@RunDepth: 204.88 psig @ 4442.00 ft (KB)      Capacity: 7000.00 psig  
 Start Date: 2008.10.23      End Date: 2008.10.23      Last Calib.: 2008.10.23  
 Start Time: 06:48:23      End Time: 14:48:17      Time On Btm: 2008.10.23 @ 09:20:48  
 Time Off Btm: 2008.10.23 @ 12:38:18

**TEST COMMENT:** IF Strong blow to BOB 30 min  
 ISI Weak surface died 5 min  
 FF 10"



## PRESSURE SUMMARY

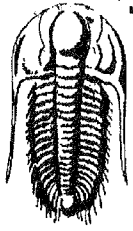
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2271.20	109.97	Initial Hydro-static
1	43.99	109.58	Open To Flow (1)
31	150.38	121.82	Shut-In(1)
77	889.61	121.46	End Shut-In(1)
78	155.37	121.24	Open To Flow(2)
137	204.88	124.54	Shut-In(2)
197	827.47	124.05	End Shut-In(2)
198	2079.86	124.57	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
240.00	Water	1.18
60.00	MCW 85%W 15%M	0.80
60.00	WCM15%W 85%M	0.85
30.00	MJD	0.43
20.00	OIL	0.28

## Gas Rates

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



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**TOOL DIAGRAM**

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**Hoss-Dearth #1-1**  
**1 21 25 Hodgeman KS**  
Job Ticket: 33534      **DST#: 2**  
Test Start: 2008.10.23 @ 06:48:18

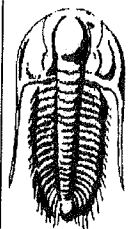
**Tool Information**

Drill Pipe:	Length: 4179.00 ft	Diameter: 3.82 inches	Volume: 59.24 bbl	Tool Weight: 1500.00 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: 245.00 ft	Diameter: 2.25 inches	Volume: 1.20 bbl	Weight to Pull Loose: 62000.00 lb
		Total Volume: 60.44 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4440.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4421.00	
Shut In Tool	5.00			4426.00	
Hydraulic tool	5.00			4431.00	
Packer	4.00			4435.00	20.00 Bottom Of Top Packer
Packer	5.00			4440.00	
Stubb	1.00			4441.00	
Perforations	1.00			4442.00	
Recorder	0.00	8319	Inside	4442.00	
Recorder	0.00	8369	Inside	4442.00	
Perforations	16.00			4458.00	
Bullnose	3.00			4461.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 41.00**



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Job Ticket: 33534      **DST#: 2**  
Test Start: 2008.10.23 @ 06:48:18

## Mud and Cushion Information

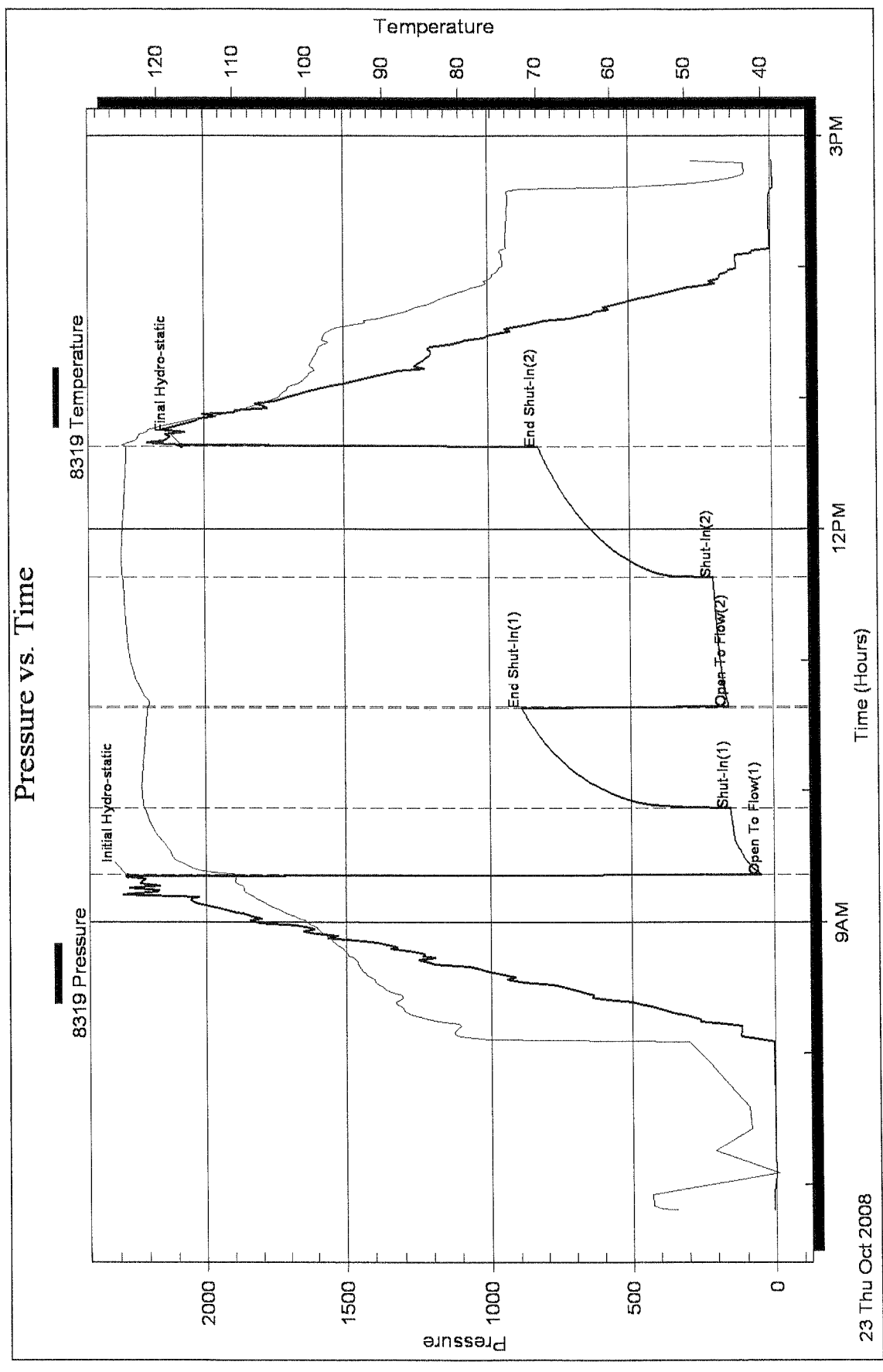
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume:		
Water Loss: 7.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 4000.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
240.00	Water	1.180
60.00	MWCW 85%W 15%M	0.804
60.00	WCM15%W 85%M	0.851
30.00	MUD	0.425
20.00	OIL	0.284

Total Length: 410.00 ft      Total Volume: 3.544 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: RW .4 @ 67F Chlorides 19000ppm



23 Thu Oct 2008