15-051-25770 35-14s-16w

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Inc**

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

35 14S 16W Ellis KS

MDJ # 1

Start Date: 2008.06.08 @ 23:24:59
End Date: 2008.06.09 @ 04:18:53
Job Ticket #: 32821 DST #: 1

TDI Inc MDJ # 1 35 14S 16W Ellis KS DST # 1 Arbuckle 2008.06.08

Trilobite Testing, Inc
PO Box 1733 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

MDJ # 1

35 14S 16W Ellis KS

Job Ticket: 32821 **DST#: 1**

Test Start: 2008.06.08 @ 23:24:59

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:31:24
Time Test Ended: 04:18:53

Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 42

Interval: 3315.00 ft (KB) To 3374.00 ft (KB) (TVD)
Total Depth: 3374.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Poor

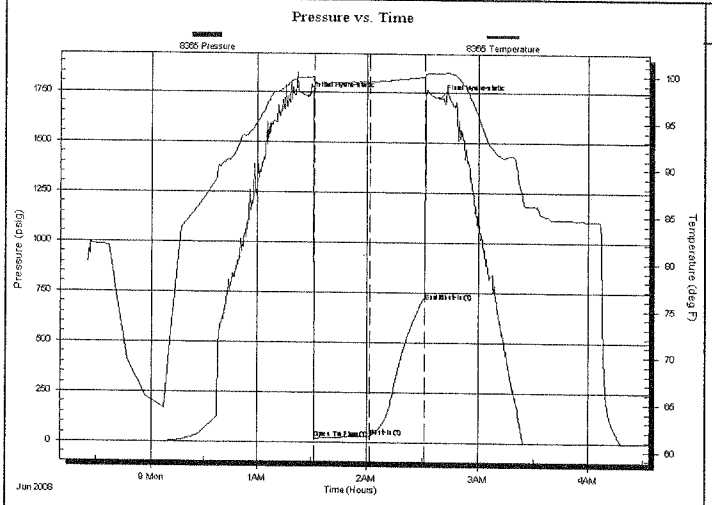
Reference Elevations: 1839.00 ft (KB)
1834.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8365 **Inside**

Press@RunDepth: 31.13 psig @ 3319.01 ft (KB)
Start Date: 2008.06.08 End Date: 2008.06.09
Start Time: 23:24:59 End Time: 04:18:53

Capacity: 7000.00 psig
Last Calib.: 2008.06.09
Time On Btm: 2008.06.09 @ 01:28:24
Time Off Btm: 2008.06.09 @ 02:38:54

TEST COMMENT: IFP Wk bl thru-out 1/4 " bl
Times 30 30 out



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1727.69	99.83	Initial Hydro-static
3	18.78	98.98	Open To Flow (1)
33	31.13	99.39	Shut-In(1)
63	704.52	99.87	End Shut-In(1)
71	1721.29	100.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mw/show O	0.10

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Inc

1310 Bison Rd
Hays KS 67601

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Job Ticket: 32821 **DST#: 1**

Test Start: 2008.06.08 @ 23:24:59

Tool Information

Drill Pipe:	Length:	3206.00 ft	Diameter:	3.80 inches	Volume:	44.97 bbl	Tool Weight:	2200.00 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:	120.00 ft	Diameter:	2.25 inches	Volume:	0.59 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	45.56 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		32.00 ft					String Weight: Initial	36000.00 lb
Depth to Top Packer:		3315.00 ft					Final	36000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		59.02 ft						
Tool Length:		80.02 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			3295.00		
Shut In Tool	5.00			3300.00		
Hydraulic tool	5.00			3305.00		
Packer	5.00			3310.00	21.00	Bottom Of Top Packer
Packer	5.00			3315.00		
Stubb	1.00			3316.00		
Perforations	3.00			3319.00		
Recorder	0.01	8365	Inside	3319.01		
Recorder	0.01	6625	Outside	3319.02		
Blank Spacing	32.00			3351.02		
Perforations	20.00			3371.02		
Bullnose	3.00			3374.02	59.02	Bottom Packers & Anchor
Total Tool Length:	**80.02**					

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DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Inc

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

MDJ # 1

35 14S 16W Ellis KS

Job Ticket: 32821 **DST#: 1**

Test Start: 2008.06.08 @ 23:24:59

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	10.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	41.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.60 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	53000.00 ppm				
Filter Cake:	1.00 inches				

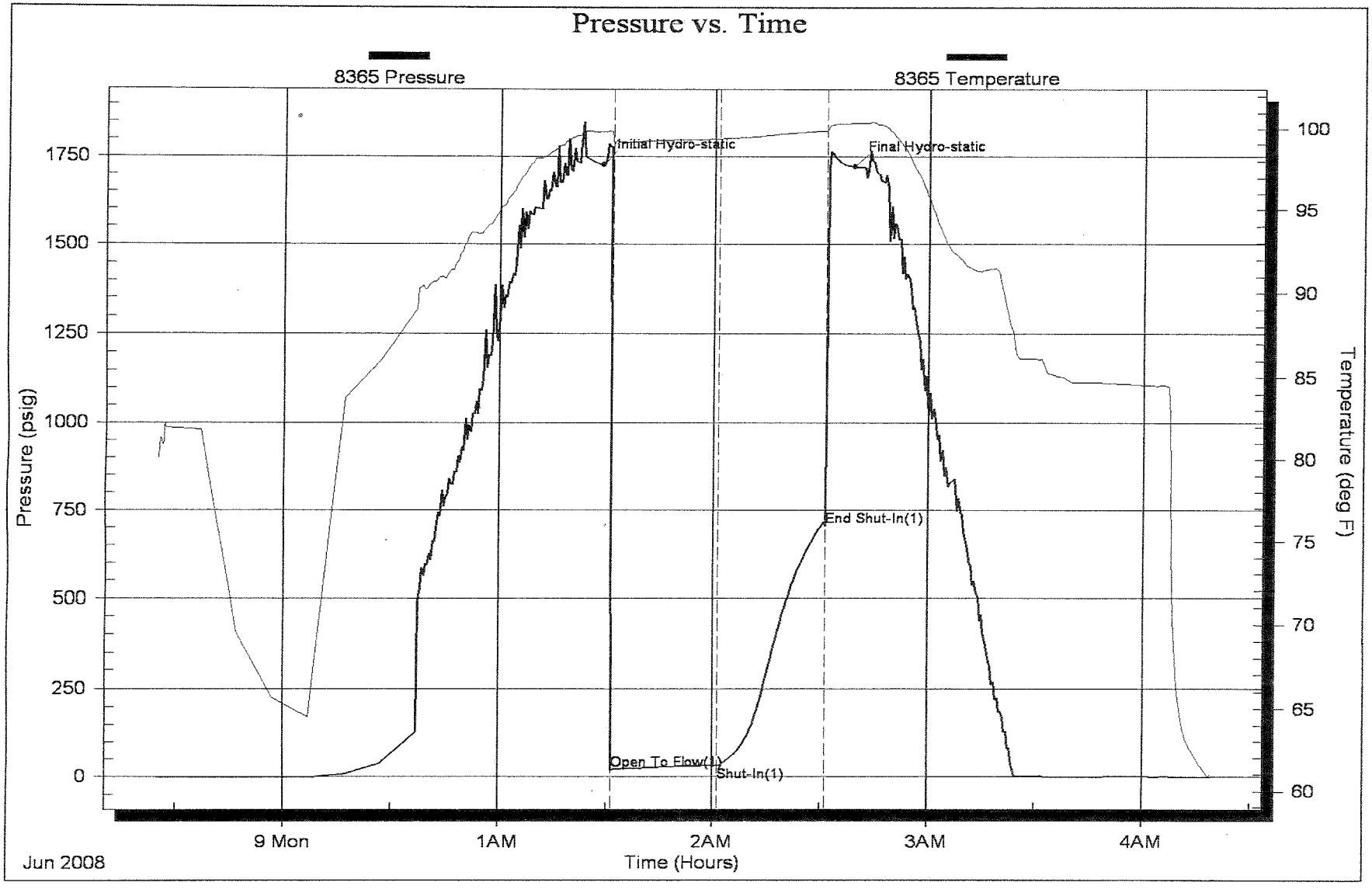
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mw/show O	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:


Pressure vs. Time
8365 Pressure
8365 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
Open To Flow(1)
Shut-In(1)
Pressure (psig)
Temperature (deg F)
1750
1500
1250
1000
750
500
250
0
100
95
90
85
80
75
70
65
60
9 Mon
1AM
2AM
3AM
4AM
Jun 2008
Time (Hours)