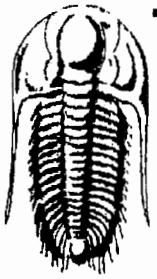
22-14s-16w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **TDI Oil Operations**

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

22 14 16 Ellis KS

Tholen # 8

Start Date: 2007.07.30 @ 10:37:42
End Date: 2007.07.30 @ 17:44:12
Job Ticket #: 28785 DST #: 1

15-051-25656-00-00
SE NW NE SE
2105 FSL 645 FEL

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

DRILL STEM TEST REPORT

TDI Oil Operations

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

Tholen # 8

22 14 16 Ellis KS

Job Ticket: 28785 **DST#: 1**

Test Start: 2007.07.30 @ 10:37:42

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:07:02
Time Test Ended: 17:44:12

Test Type: Conventional Bottom Hole
Tester: Dan Bangle
Unit No: 38

Interval: 3356.00 ft (KB) To 3428.00 ft (KB) (TVD)
Total Depth: 3428.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

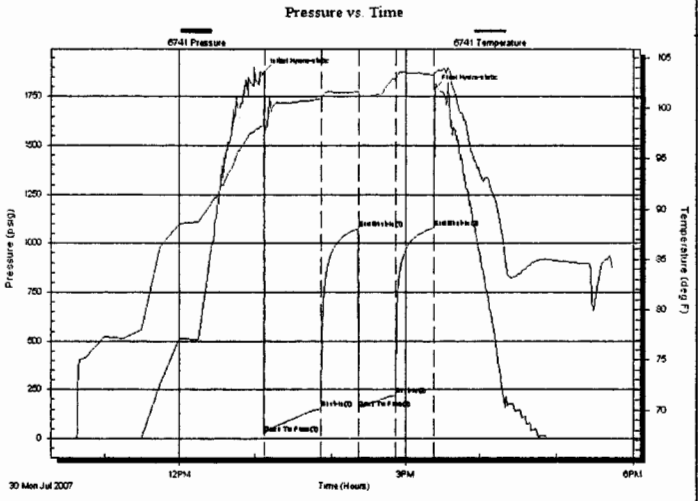
Reference Elevations: 1898.00 ft (KB)
1893.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6741 **Inside**

Press@RunDepth: 220.99 psig @ 3359.00 ft (KB)
Start Date: 2007.07.30 End Date: 2007.07.30
Start Time: 10:37:44 End Time: 17:44:12

Capacity: 7000.00 psig
Last Calib.: 2007.07.30
Time On Btm: 2007.07.30 @ 13:06:42
Time Off Btm: 2007.07.30 @ 15:23:12

TEST COMMENT: IF Strong B-B in 10 min
FF Strong B-B in 15 min



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1874.17	98.28	Initial Hydro-static
1	24.91	97.78	Open To Flow (1)
46	153.87	101.01	Shut-In(1)
75	1075.13	101.65	End Shut-In(1)
76	154.51	101.36	Open To Flow (2)
106	220.99	102.97	Shut-In(2)
137	1080.32	103.25	End Shut-In(2)
137	1791.41	103.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
248.00	HMCGO 5%G 80%O 15%M	3.48
185.00	MCGO 5%G 70%O 25%M	2.60
30.00	OCM 40%O 60%M	0.42

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

TDI Oil Operations

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

Tholen # 8

22 14 16 Ellis KS

Job Ticket: 28785 **DST#: 1**

Test Start: 2007.07.30 @ 10:37:42

Tool Information

Drill Pipe:	Length:	3342.00 ft	Diameter:	3.80 inches	Volume:	46.88 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:		20000.00 lb
Drill Collar:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight to Pull Loose:		60000.00 lb
					Total Volume:	46.88 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		7.00 ft					String Weight:	Initial	32000.00 lb
Depth to Top Packer:		3356.00 ft						Final	34000.00 lb
Depth to Bottom Packer:		ft							
Interval between Packers:		72.00 ft							
Tool Length:		93.00 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			3336.00		
Shut In Tool	5.00			3341.00		
Hydraulic tool	5.00			3346.00		
Packer	5.00			3351.00	21.00	Bottom Of Top Packer
Packer	5.00			3356.00		
Stubb	1.00			3357.00		
Perforations	1.00			3358.00		
Change Over Sub	1.00			3359.00		
Recorder	0.00	6741	Inside	3359.00		
Drill Pipe	61.00			3420.00		
Change Over Sub	1.00			3421.00		
Recorder	0.00	13254	Outside	3421.00		
Perforations	4.00			3425.00		
Bullnose	3.00			3428.00	72.00	Bottom Packers & Anchor
Total Tool Length:	**93.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

TDI Oil Operations

1310 Bison Rd
Hays KS 67601

ATTN: Tom Denning

Tholen # 8

22 14 16 Ellis KS

Job Ticket: 28785 **DST#: 1**

Test Start: 2007.07.30 @ 10:37:42

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:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.59 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	68000.00 ppm				
Filter Cake:	inches				

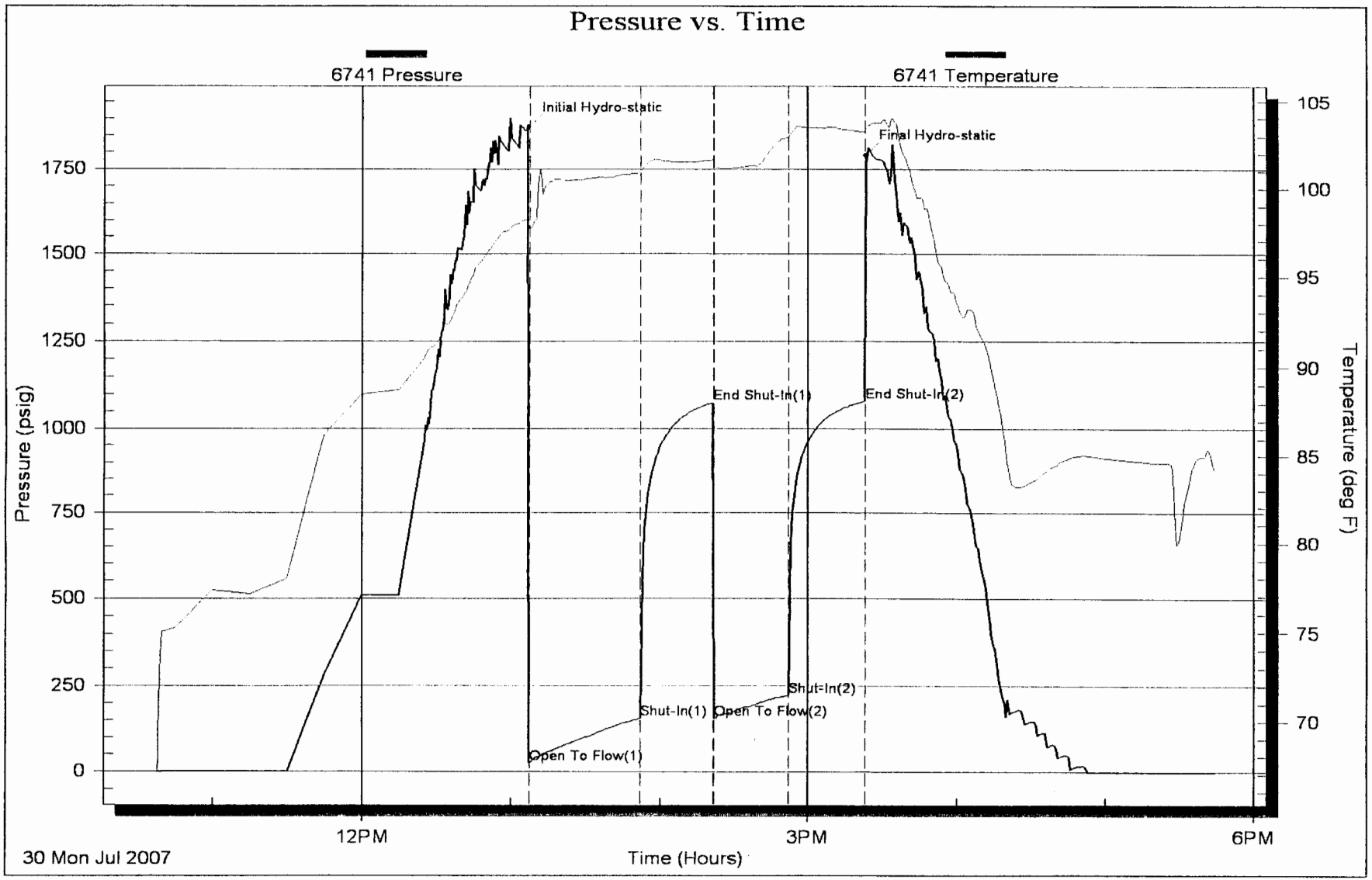
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
248.00	HMCGO 5%G 80%O 15%M	3.479
185.00	MCGO 5%G 70%O 25%M	2.595
30.00	OCM 40%O 60%M	0.421

Total Length: 463.00 ft Total Volume: 6.495 bbl

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


Pressure vs. Time
6741 Pressure
6741 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(1)
Shut-In(2)
Open To Flow(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
0
250
500
750
1000
1250
1500
1750
70
75
80
85
90
95
100
105
12PM
3PM
6PM
30 Mon Jul 2007
Time (Hours)