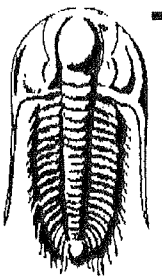
15-195-22462 4-14s-21w



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Downing/Nelson Oil Co Inc**

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

4 14 21 Trego KS

Kuppetz # 1-4

Start Date: 2007.07.01 @ 04:21:08
End Date: 2007.07.01 @ 10:10:08
Job Ticket #: 28022 DST #: 1

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

Downing/Nelson Oil Co Inc
Kuppetz # 1-4
4 14 21 Trego KS
DST # 1
Marmaton
2007.07.01

DRILL STEM TEST REPORT

Downing/Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Kuppetz # 1-4

4 14 21 Trego KS

Job Ticket: 28022 **DST#: 1**

Test Start: 2007.07.01 @ 04:21:08

GENERAL INFORMATION:

Formation: **Marmaton**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 06:00:08
Time Test Ended: 10:10:08

Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 31

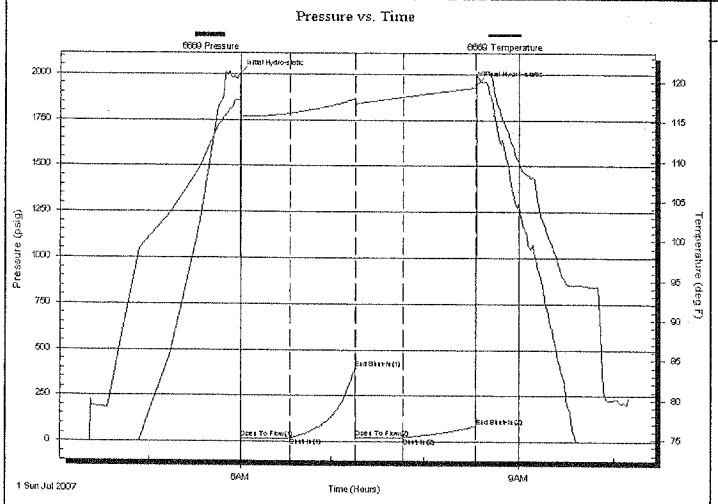
Interval: 3981.00 ft (KB) To 4021.00 ft (KB) (TVD)
Total Depth: 4020.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2287.00 ft (KB)
2279.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6669 **Inside**
Press@RunDepth: 22.92 psig @ 3987.00 ft (KB)
Start Date: 2007.07.01 End Date: 2007.07.01
Start Time: 04:21:13 End Time: 10:10:07

Capacity: 7000.00 psig
Last Calib.: 2007.07.01
Time On Btm: 2007.07.01 @ 05:59:38
Time Off Btm: 2007.07.01 @ 08:33:08

TEST COMMENT: IF Weak Surface
ISI Dead
FF Weak Surface
FSI Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.27	117.77	Initial Hydro-static
1	13.99	115.78	Open To Flow (1)
33	18.60	116.02	Shut-In(1)
76	399.75	117.91	End Shut-In(1)
77	19.21	117.27	Open To Flow (2)
107	22.92	118.09	Shut-In(2)
153	86.13	119.29	End Shut-In(2)
154	1939.45	121.03	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Oil	0.02
5.00	Oil spoted Mud	0.02

Gas Rates

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

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing/Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Kuppetz # 1-4

4 14 21 Trego KS

Job Ticket: 28022 **DST#: 1**

Test Start: 2007.07.01 @ 04:21:08

Tool Information

Drill Pipe:	Length:	3961.00 ft	Diameter:	3.80 inches	Volume:	55.56 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	55.71 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		30.00 ft					String Weight: Initial	58000.00 lb
Depth to Top Packer:		3981.00 ft					Final	58000.00 lb
Depth to Bottom Packer:		ft						
Interval between Packers:		39.00 ft						
Tool Length:		59.00 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			3962.00		
Shut In Tool	5.00			3967.00		
Hydraulic tool	5.00			3972.00		
Packer	4.00			3976.00	20.00	Bottom Of Top Packer
Packer	5.00			3981.00		
Stubb	1.00			3982.00		
Perforations	5.00			3987.00		
Recorder	0.00	6669	Inside	3987.00		
Perforations	30.00			4017.00		
Recorder	0.00	13308	Outside	4017.00		
Bullnose	3.00			4020.00	39.00	Bottom Packers & Anchor
Total Tool Length:	**59.00**					

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing/Nelson Oil Co Inc

PO Box 372
Hays KS 67601-0372

ATTN: Ron Nelson

Kuppetz # 1-4

4 14 21 Trego KS

Job Ticket: 28022 **DST#: 1**

Test Start: 2007.07.01 @ 04:21:08

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:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.99 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	ppm				
Filter Cake:	inches				

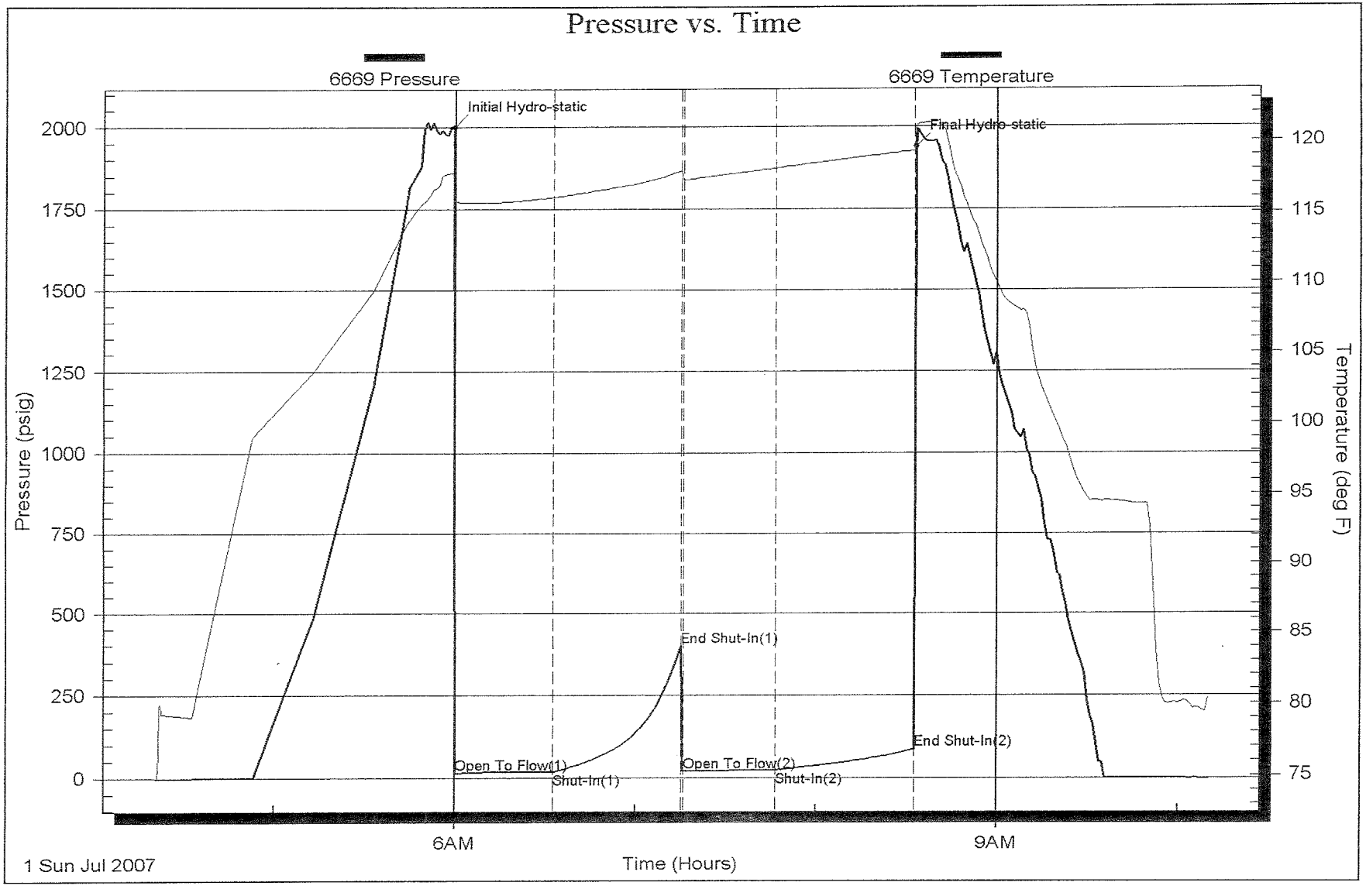
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Oil	0.025
5.00	Oil spoted Mud	0.025

Total Length: 10.00 ft Total Volume: 0.050 bbl

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


Pressure vs. Time
6669 Pressure
6669 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Shut-In(2)
2000
1750
1500
1250
1000
750
500
250
0
120
115
110
105
100
95
90
85
80
75
Pressure (psig)
Temperature (deg F)
6AM
9AM
1 Sun Jul 2007
Time (Hours)