

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

200 E First Ste 307
Wichita KS 67202

ATTN: Wes Hansen

17-28s-40w Stanton

Circle 8 #2-17

Start Date: 2007.04.14 @ 11:58:19
End Date: 2007.04.14 @ 22:20:04
Job Ticket #: 27311 DST #: 1

Trilobite Testing, Inc
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ATTN: Wes Hansen

Circle 8 #2-17

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Job Ticket: 27311 **DST#: 1**

Test Start: 2007.04.14 @ 11:58:19

GENERAL INFORMATION:

Formation: **Keyes**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:36:19
Time Test Ended: 22:20:04

Test Type: Conventional Bottom Hole
Tester: Delton Brown
Unit No: #20

Interval: 5315.00 ft (KB) To 5383.00 ft (KB) (TVD)
Total Depth: 5383.00 ft (KB) (TVD)
Hole Diameter: 7.78 inches Hole Condition: Fair

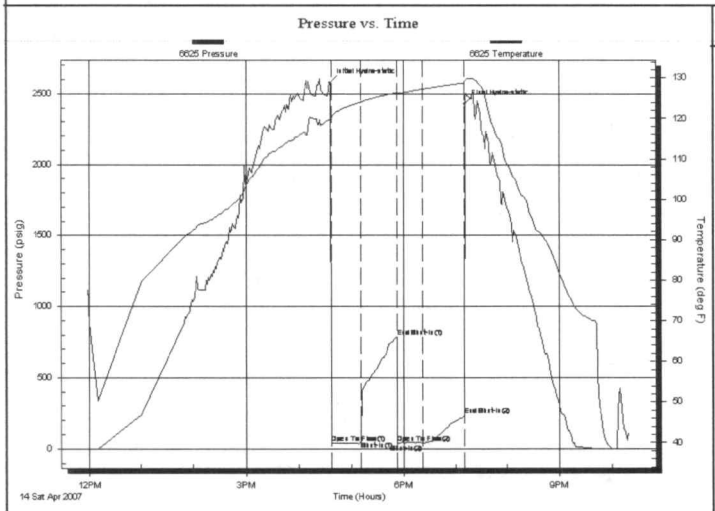
Reference Elevations: 3322.00 ft (KB)
3312.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 6625 **Inside**

Press@RunDepth: 35.13 psig @ 5317.00 ft (KB)
Start Date: 2007.04.14 End Date: 2007.04.14
Start Time: 11:58:20 End Time: 22:20:04

Capacity: 7000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2007.04.14 @ 16:35:34
Time Off Btm: 2007.04.14 @ 19:11:04

TEST COMMENT: IF: Weak blow 1" in to bucket; 20 min. died.
ISI: No returned blow.
FF: No blow.
FSI: No return blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2580.15	119.46	Initial Hydro-static
1	39.84	119.70	Open To Flow (1)
36	50.28	124.07	Shut-In(1)
77	784.15	126.37	End Shut-In(1)
77	42.09	126.22	Open To Flow (2)
107	35.13	127.24	Shut-In(2)
156	234.59	128.79	End Shut-In(2)
156	2429.79	129.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	Oil specked heavy mud 100%M	0.87

Gas Rates

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

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TOOL DIAGRAM

Grand Mesa Operating Co.

200 E First Ste 307
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Circle 8 #2-17

17-28s-40w Stanton

Job Ticket: 27311 **DST#: 1**

Test Start: 2007.04.14 @ 11:58:19

Tool Information

Drill Pipe:	Length:	5313.00 ft	Diameter:	3.80 inches	Volume:	74.53 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:	0.00 ft	Diameter:	2.25 inches	Volume:	0.00 bbl	Weight to Pull Loose:	70000.00 lb
					Total Volume:	74.53 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		25.00 ft					String Weight: Initial	45000.00 lb
Depth to Top Packer:		5315.00 ft					Final	48000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		68.00 ft						
Tool Length:		95.00 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			5289.00		
Shut In Tool	5.00			5294.00		
Hydraulic tool	5.00			5299.00		
Jars	5.00			5304.00		
Safety Joint	2.00			5306.00		
Packer	5.00		Fluid	5311.00	27.00	Bottom Of Top Packer
Packer	4.00			5315.00		
Stubb	1.00			5316.00		
Anchor	1.00			5317.00		
Recorder	0.00	6625	Inside	5317.00		
Change Over Sub	1.00			5318.00		
Drill Pipe	61.00			5379.00		
Change Over Sub	1.00			5380.00		
Recorder	0.00	13761	Inside	5380.00		
Bullnose	3.00			5383.00	68.00	Bottom Packers & Anchor
Total Tool Length:	**95.00**					

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FLUID SUMMARY

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Job Ticket: 27311 **DST#: 1**

Test Start: 2007.04.14 @ 11:58:19

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:	6400 ppm
Viscosity:	56.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

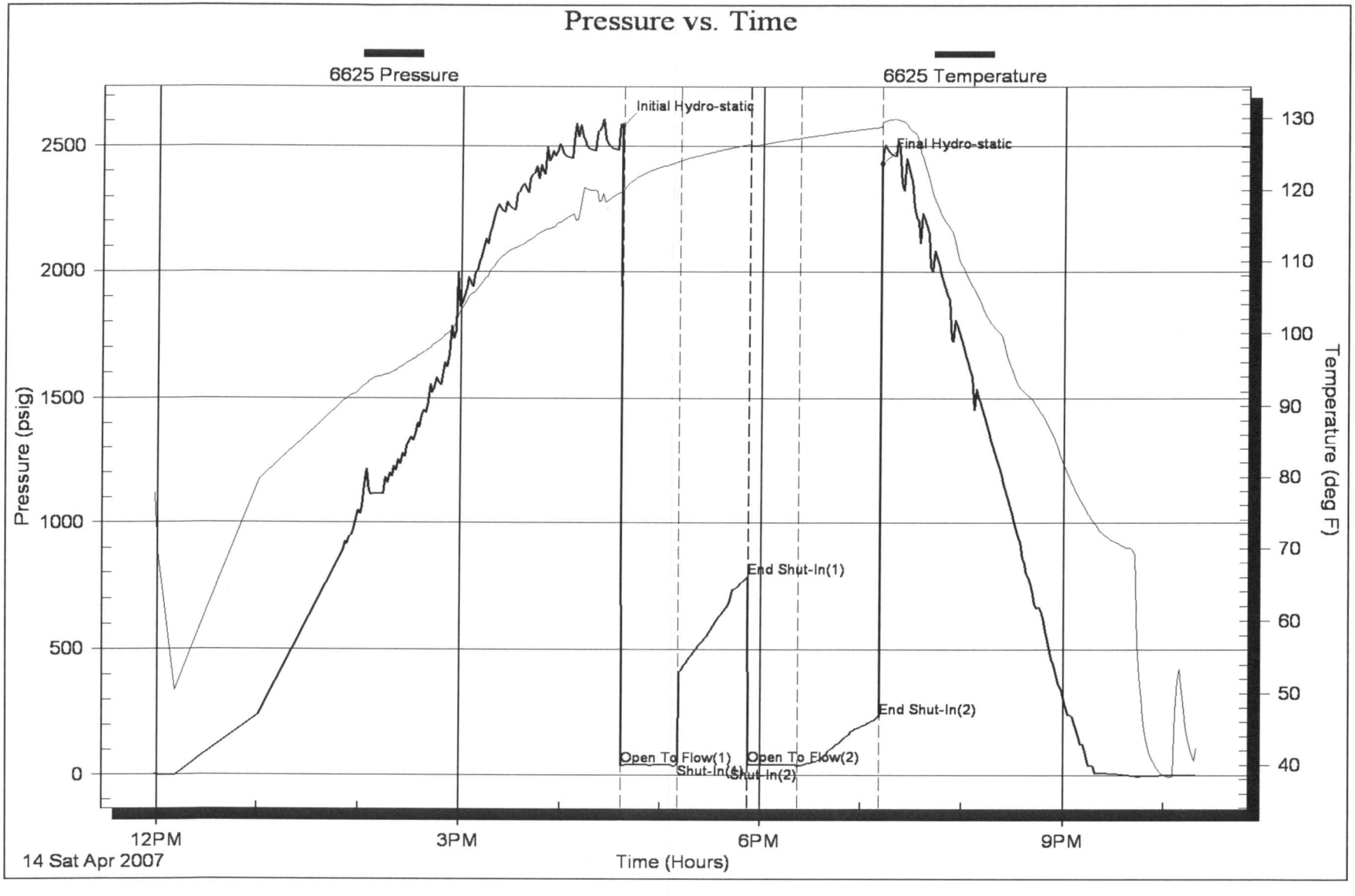
Length ft	Description	Volume bbl
62.00	Oil specked heavy mud 100%M	0.870

Total Length: 62.00 ft Total Volume: 0.870 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: RW=1.20@55F=6400


Pressure vs. Time
6625 Pressure
6625 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)
Pressure (psig)
Temperature (deg F)
2500
2000
1500
1000
500
0
130
120
110
100
90
80
70
60
50
40
12PM
3PM
6PM
9PM
14 Sat Apr 2007
Time (Hours)