

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **M.K.J. Oil Co.**

805 E.9th St
Harper KS. 67058

ATTN: Marland Bergman

sec34 twp30 rge7

Bergman A-2

Start Date: 2004.10.12 @ 08:21:23

End Date: 2004.10.12 @ 16:27:53

Job Ticket #: 19226 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
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Job Ticket: 19226 **DST#: 1**

Test Start: 2004.10.12 @ 08:21:23

GENERAL INFORMATION:

Formation: **Miss.-Osage Chert**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:46:08
Time Test Ended: 16:27:53

Test Type: Conventional Bottom Hole
Tester: Steve Clark
Unit No: 19

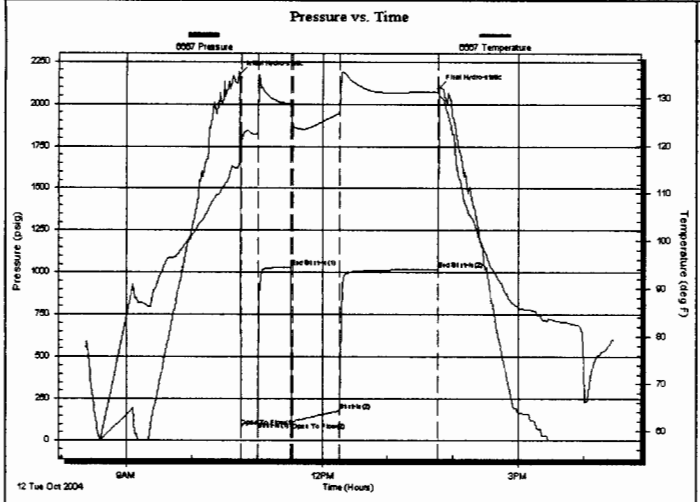
Interval: 4323.00 ft (KB) To 4340.00 ft (KB) (TVD)
Total Depth: 4340.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Fair

Reference Elevations: 1606.00 ft (KB)
1598.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 178.22 psig @ 4324.00 ft (KB)
Start Date: 2004.10.12 End Date: 2004.10.12
Start Time: 08:21:33 End Time: 16:27:53

Capacity: 7000.00 psig
Last Calib.: 2004.10.12
Time On Btm: 2004.10.12 @ 10:44:08
Time Off Btm: 2004.10.12 @ 13:46:38

TEST COMMENT: IF-Strg blw 1min,GTS-4min,@14min-1\8 7psi=7.5
ISI-After bleed off,blw died
FF-Strg blw 1min,44min 1\8 5psi=6.8
FSI-After bleed off,1\8 blw-4min then died



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2176.44	116.68	Initial Hydro-static
2	81.05	121.13	Open To Flow (1)
17	114.49	122.53	Shut-In(1)
48	1030.82	128.67	End Shut-In(1)
49	105.83	123.80	Open To Flow (2)
92	178.22	126.83	Shut-In(2)
182	1019.83	131.29	End Shut-In(2)
183	2091.43	132.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
150.00	OCM-5%gas-20%oil-75%mud	2.10
210.00	GO-40%gas-60%oil	2.95
30.00	OSW-2%iol-98%w ater	0.42

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.26
Last Gas Rate	0.13	5.00	7.19
Max. Gas Rate	0.13	7.00	7.93

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TOOL DIAGRAM

M.K.J. Oil Co.

805 E.9th St
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Bergman A-2

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Job Ticket: 19226 **DST#: 1**

Test Start: 2004.10.12 @ 08:21:23

Tool Information

Drill Pipe:	Length:	4319.00 ft	Diameter:	3.80 inches	Volume:	60.58 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.70 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:	60.58 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		20.00 ft					String Weight:	Initial	64000.00 lb
Depth to Top Packer:		4323.00 ft						Final	65000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		17.00 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			4300.00		
Shut In Tool	5.00			4305.00		
Hydraulic tool	5.00			4310.00		
Safety Joint	3.00			4313.00		
Packer	5.00			4318.00	24.00	Bottom Of Top Packer
Packer	5.00			4323.00		
Perforations	1.00			4324.00		
Recorder	0.00	6667	Inside	4324.00		
Perforations	13.00			4337.00		
Recorder	0.00	11019	Outside	4337.00		
Bullnose	3.00			4340.00	17.00	Bottom Packers & Anchor
Total Tool Length:	**41.00**					

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FLUID SUMMARY

M.K.J. Oil Co.

805 E.9th St
Harper KS. 67058

ATTN: Marland Bergman

Bergman A-2

sec34 twp30 rge7

Job Ticket: 19226 **DST#: 1**

Test Start: 2004.10.12 @ 08:21:23

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:	200000 ppm
Viscosity:	46.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.57 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	OCM-5%gas-20%oil-75%mud	2.104
210.00	GO-40%gas-60%oil	2.946
30.00	OSW-2%iol-98%water	0.421

Total Length: 390.00 ft Total Volume: 5.471 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Turnkey Duke

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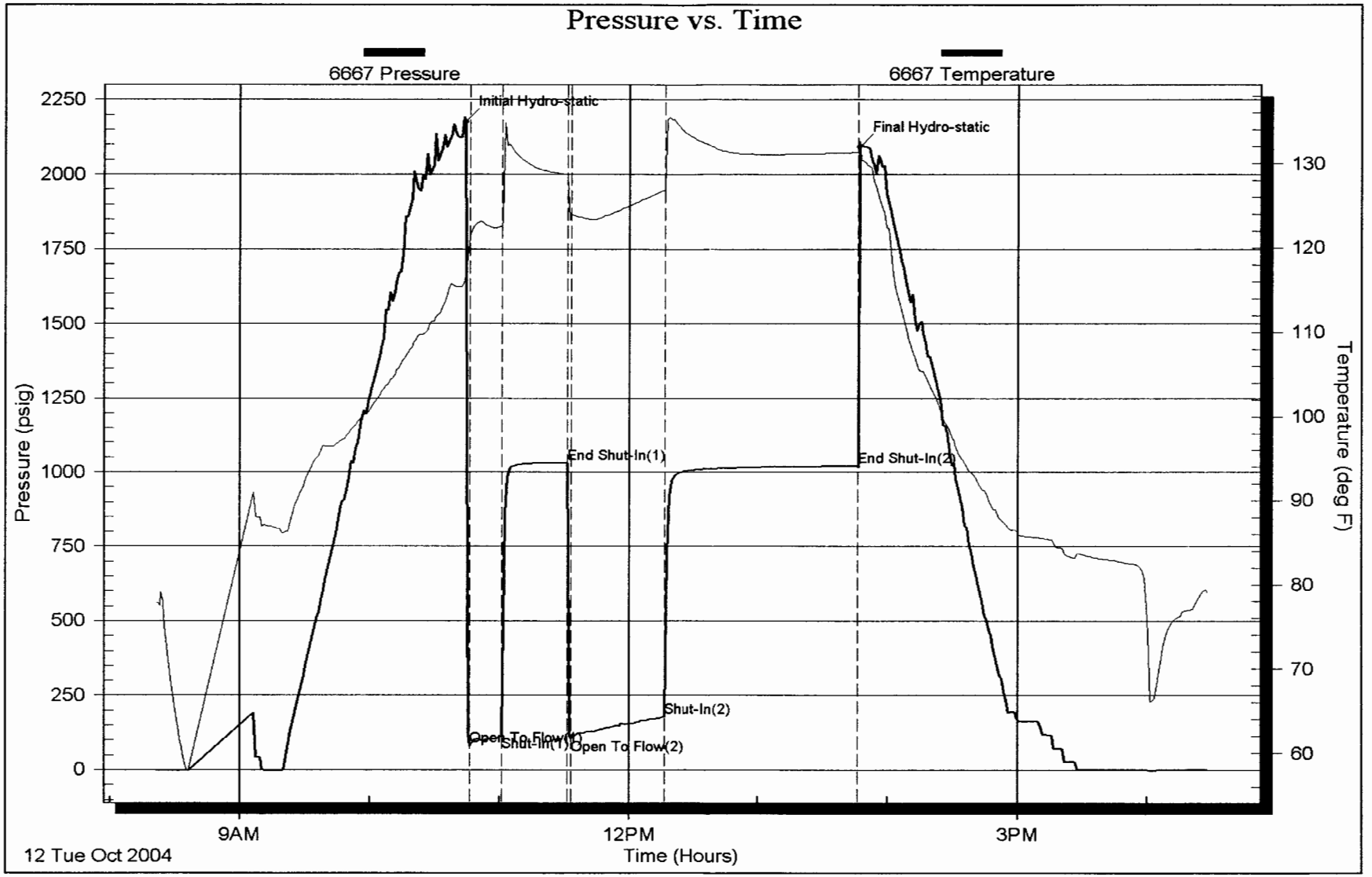
Gas Rates Information

Temperature: 69 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m^3/d)
1	4	0.13	5.00	7.26
1	4	0.13	5.00	7.19
1	7	0.13	6.00	7.56
1	12	0.13	7.00	7.93
1	14	0.13	7.00	7.93
2	6	0.13	6.00	7.56
2	10	0.13	6.00	7.56
2	15	0.13	6.00	7.56
2	20	0.13	6.00	7.56
2	25	0.13	5.00	7.19
2	35	0.13	5.00	7.19


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Open To Flow(1)
Shut-In(1)
Open To Flow(2)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
130
120
110
100
90
80
70
60
9AM
12PM
3PM
12 Tue Oct 2004
Time (Hours)

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