

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Aztec Oil Co.**

PO Box 1020
El Dorado KS 67042

ATTN: Matt Cross

15-29-7 Kingman KS

Whitelaw #4

Start Date: 2004.12.04 @ 10:59:30
End Date: 2004.12.05 @ 00:56:00
Job Ticket #: 19248 DST #: 1

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

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Job Ticket: 19248 **DST#: 1**

Test Start: 2004.12.04 @ 10:59:30

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 14:43:45
Time Test Ended: 00:56:00

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

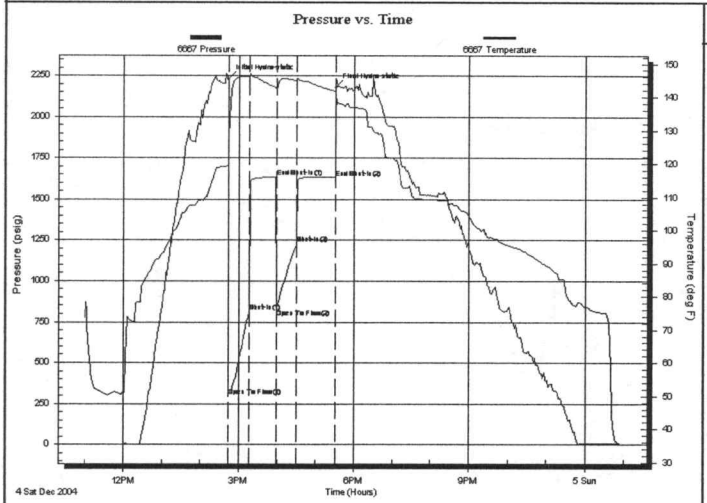
Interval: 4489.00 ft (KB) To 4511.00 ft (KB) (TVD)
Total Depth: 4511.00 ft (KB) (TVD)
Hole Diameter: 7.83 inches Hole Condition: Fair

Reference Elevations: 1595.00 ft (KB)
1590.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 6667 **Inside**
Press@RunDepth: 1229.20 psig @ 4490.00 ft (KB)
Start Date: 2004.12.04 End Date: 2004.12.05
Start Time: 10:59:40 End Time: 00:55:59

Capacity: 7000.00 psig
Last Calib.: 2004.12.05
Time On Btm: 2004.12.04 @ 14:43:30
Time Off Btm: 2004.12.04 @ 17:31:00

TEST COMMENT: IF-Strg blw b.o.b. 1min, GTS-9min, to small to gauge.
ISI-After bleed off,5"blw ,never died.
FF-Strg blw b.o.b. 1min,FTS-30 min.
FSI-Flow to surface.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2232.18	119.53	Initial Hydro-static
1	292.81	119.59	Open To Flow (1)
33	811.51	145.93	Shut-In(1)
75	1634.65	142.81	End Shut-In(1)
76	827.20	142.11	Open To Flow (2)
107	1229.20	144.97	Shut-In(2)
168	1629.18	141.62	End Shut-In(2)
168	2180.71	141.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2840.00	Gassy Oil, 80%oil-20% gas	39.84
180.00	GOCM,50%gas-30%oil-5%w tr-15%mud	2.52
480.00	GW,10%gas-90%w tr	6.73

Gas Rates

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

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TOOL DIAGRAM

Aztec Oil Co.

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Whitelaw #4

15-29-7 Kingman KS

Job Ticket: 19248 **DST#: 1**

Test Start: 2004.12.04 @ 10:59:30

Tool Information

Drill Pipe:	Length:	4475.00 ft	Diameter:	3.80 inches	Volume:	62.77 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:		75000.00 lb
					Total Volume:	62.77 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		10.00 ft					String Weight:	Initial	56000.00 lb
Depth to Top Packer:		4489.00 ft						Final	71000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		22.00 ft							
Tool Length:		46.00 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			4466.00		
Shut In Tool	5.00			4471.00		
Hydraulic tool	5.00			4476.00		
Safety Joint	3.00			4479.00		
Packer	5.00			4484.00	24.00	Bottom Of Top Packer
Packer	5.00			4489.00		
Perforations	1.00			4490.00		
Recorder	0.00	6667	Inside	4490.00		
Perforations	18.00			4508.00		
Recorder	0.00	11019	Outside	4508.00		
Bullnose	3.00			4511.00	22.00	Bottom Packers & Anchor
Total Tool Length:	**46.00**					

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FLUID SUMMARY

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Test Start: 2004.12.04 @ 10:59:30

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	49.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	45.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.58 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	4000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

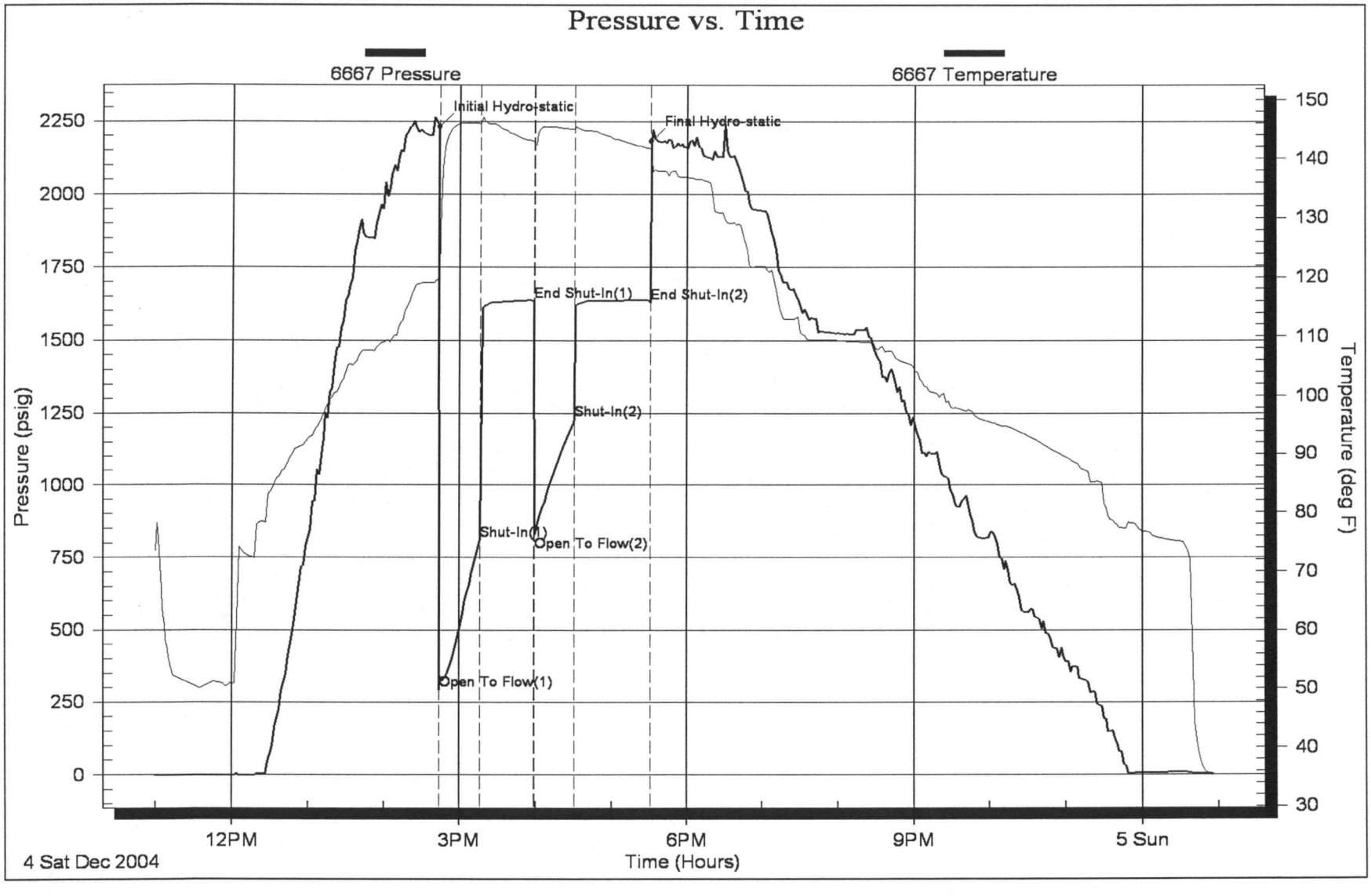
Length ft	Description	Volume bbl
2840.00	Gassy Oil, 80%oil-20% gas	39.838
180.00	GOCM,50%gas-30%oil-5%w tr-15%mud	2.525
480.00	GW,10%gas-90%w tr	6.733

Total Length: 3500.00 ft Total Volume: 49.096 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:


Pressure vs. Time
6667 Pressure
6667 Temperature
Initial Hydro-static
Final Hydro-static
End Shut-In(1)
End Shut-In(2)
Shut-In(2)
Shut-In(1)
Open To Flow(2)
Open To Flow(1)
Pressure (psig)
Temperature (deg F)
2250
2000
1750
1500
1250
1000
750
500
250
0
150
140
130
120
110
100
90
80
70
60
50
40
30
12PM
3PM
6PM
9PM
5 Sun
4 Sat Dec 2004
Time (Hours)