



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Pioneer Resources
 80 Windmill Dr.
 Phillipsburg, Ks 67661
 ATTN: Steve Murphy

25-14s-30w-Gove Co, Ks

Groom #2

Job Ticket: 52981

DST#: 4

Test Start: 2013.10.09 @ 01:50:00

GENERAL INFORMATION:

Formation: **Kansas City " I & J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:40:00

Time Test Ended: 08:51:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Jace McKinney

Unit No: 46

Interval: 3956.00 ft (KB) To 3990.00 ft (KB) (TVD)

Reference Elevations: 2693.00 ft (KB)

Total Depth: 3990.00 ft (KB) (TVD)

2684.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 9.00 ft

Serial #: 8675 Inside

Press @ Run Depth: 88.61 psig @ 3957.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.09

End Date: 2013.10.09

Last Calib.: 2013.10.09

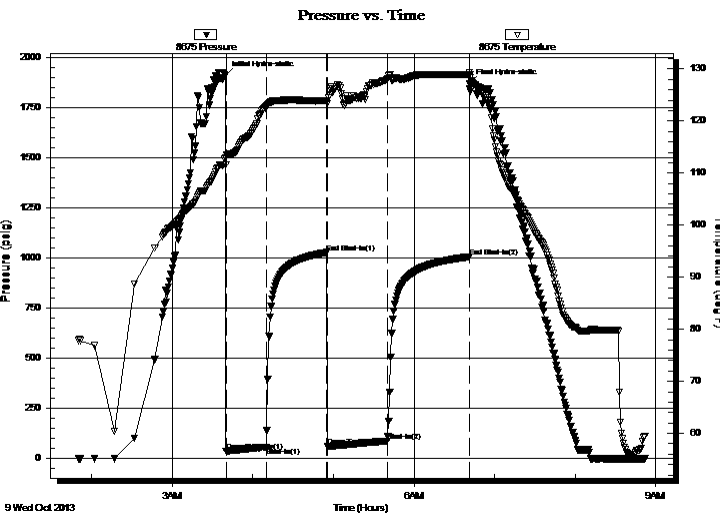
Start Time: 01:50:15

End Time: 08:51:45

Time On Btm: 2013.10.09 @ 03:39:45

Time Off Btm: 2013.10.09 @ 06:41:30

TEST COMMENT: Built to 8" blow
 No return blow
 Built to 5" blow
 No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1912.25	112.85	Initial Hydro-static
1	37.70	111.64	Open To Flow (1)
30	58.98	122.64	Shut-In(1)
76	1029.60	123.89	End Shut-In(1)
76	61.21	123.33	Open To Flow (2)
121	88.61	127.95	Shut-In(2)
182	1007.56	128.99	End Shut-In(2)
182	1870.51	128.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
31.00	100% Mud w ith oil scum	0.43
124.00	w cm 40%W 60%M	1.74

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Job Ticket: 52981 **DST#: 4**
Test Start: 2013.10.09 @ 01:50:00

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: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.00 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
31.00	100% Mud with oil scum	0.435
124.00	w cm 40%W 60%M	1.739

Total Length: 155.00 ft Total Volume: 2.174 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: API: .17 @ 55 F = 50,000

