



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bickle Energies

23-4S-27W Decatur KS

2052 250th Ave.
Hays KS 67601

Lyc #23-1

Job Ticket: 62140

DST#: 3

ATTN: Eli Fells / Jeff Bur

Test Start: 2015.01.03 @ 07:30:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:46:20

Time Test Ended: 14:48:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Donovan Baumann

Unit No: 78

Interval: 3303.00 ft (KB) To 3350.00 ft (KB) (TVD)

Reference Elevations: 2574.00 ft (KB)

Total Depth: 3350.00 ft (KB) (TVD)

2567.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 6752 Inside

Press @ Run Depth: 169.02 psig @ 3304.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.03

End Date: 2015.01.03

Last Calib.: 2015.01.03

Start Time: 07:30:01

End Time: 14:48:20

Time On Btm: 2015.01.03 @ 09:46:10

Time Off Btm: 2015.01.03 @ 12:47:39

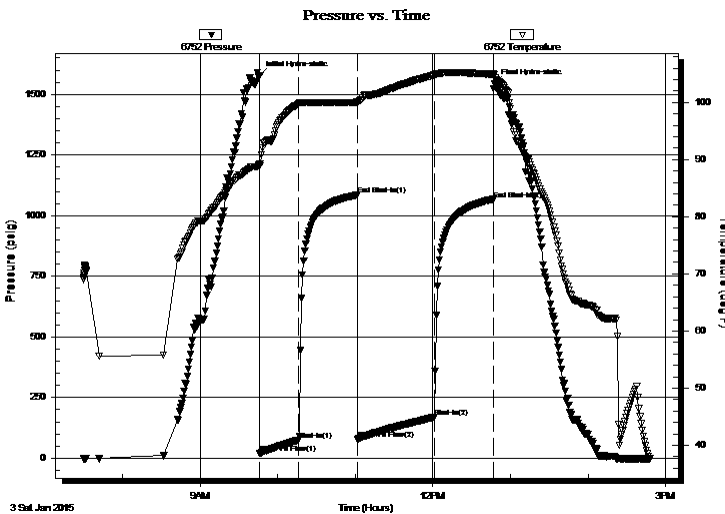
TEST COMMENT: 30 - IF - Strong surface blow built to BOB in 14 min. (In Diesel)

45 - ISI - No return

60 - FF - Strong surface blow built to BOB in 20 min.

45 - FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1576.65	89.19	Initial Hydro-static
1	19.22	88.87	Open To Flow (1)
31	75.32	99.86	Shut-In(1)
76	1085.04	100.03	End Shut-In(1)
76	79.49	99.84	Open To Flow (2)
135	169.02	104.78	Shut-In(2)
181	1067.61	104.93	End Shut-In(2)
182	1544.52	104.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	WCM - 5W - 95M	0.88
189.00	MCW - 35M - 65W	2.65
73.00	OSWCM - Oil spots - 45W - 55M	1.02

Gas Rates

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



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FLUID SUMMARY

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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:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	WCM - 5W - 95M	0.884
189.00	MCW - 35M - 65W	2.651
73.00	OSWCM - Oil spots - 45W - 55M	1.024

Total Length: 325.00 ft Total Volume: 4.559 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API RW - .34 @ 37 DEG
Chlorides - 42000 ppm

