



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: 62563

DST#: 6

ATTN: Eli Felts - Jeff Bur

Test Start: 2015.01.06 @ 07:25:00

GENERAL INFORMATION:

Formation: **LKC " H "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:53:30

Time Test Ended: 15:42:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 78

Interval: 3538.00 ft (KB) To 3610.00 ft (KB) (TVD)

Reference Elevations: 2574.00 ft (KB)

Total Depth: 3610.00 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@RunDepth: 626.45 psig @ 3539.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.06

End Date:

2015.01.06

Last Calib.:

2015.01.06

Start Time: 07:25:01

End Time:

15:42:20

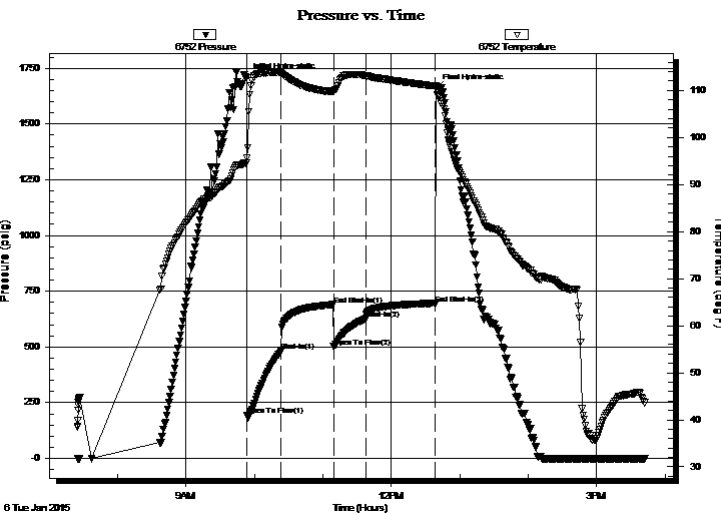
Time On Btm:

2015.01.06 @ 09:53:00

Time Off Btm:

2015.01.06 @ 12:39:00

TEST COMMENT: 30 IF - BoB @ 50 secs (in diesel)
45 ISI - Surface blow started @ 10 mins
30 FF - BoB @ 3 mins
60 ISI - Surface blow started @ 6 mins built to 2"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1709.40	94.62	Initial Hydro-static
1	191.65	95.56	Open To Flow (1)
31	480.59	113.70	Shut-In(1)
77	689.96	109.73	End Shut-In(1)
77	501.08	109.65	Open To Flow (2)
105	626.45	113.12	Shut-In(2)
166	694.01	110.92	End Shut-In(2)
166	1659.83	110.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	MCW - 45%M - 55%W	0.60
434.00	OMCW - 5%o - 5%M - 90%W	6.09
558.00	OMCW - 5%o - 15%M - 90%W	7.83
186.00	GOMCW - 5%G - 5%o - 35%M - 55%W	2.61
62.00	OMCW - 10%o - 40%M - 50%W	0.87
0.00	30' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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Lyc #23-1

Job Ticket: 62563

DST#: 6

ATTN: Eli Felts - Jeff Bur

Test Start: 2015.01.06 @ 07:25:00

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:

57000 ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	MCW - 45%M - 55%W	0.596
434.00	OMCW - 5%o - 5%M - 90%W	6.088
558.00	OMCW - 5%o - 15%M - 90%W	7.827
186.00	GOMCW - 5%G - 5%o - 35%M - 55%W	2.609
62.00	OMCW - 10%o - 40%M - 50%W	0.870
0.00	30' GIP	0.000

Total Length: 1302.00 ft Total Volume: 17.990 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW - .283 @ 34 DEG F

CHLORIDES - 57,000 PPM

