



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: 62562

DST#: 5

ATTN: Eli Fells / Jeff Bur

Test Start: 2015.01.05 @ 04:34:00

GENERAL INFORMATION:

Formation: **LKC " B - D "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:28:20

Time Test Ended: 13:55:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Donovan Baumann

Unit No: 78

Interval: 3501.00 ft (KB) To 3540.00 ft (KB) (TVD)

Reference Elevations: 2574.00 ft (KB)

Total Depth: 3540.00 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: 456.70 psig @ 3502.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.05

End Date:

2015.01.05

Last Calib.:

2015.01.05

Start Time: 04:34:01

End Time:

13:55:40

Time On Btm:

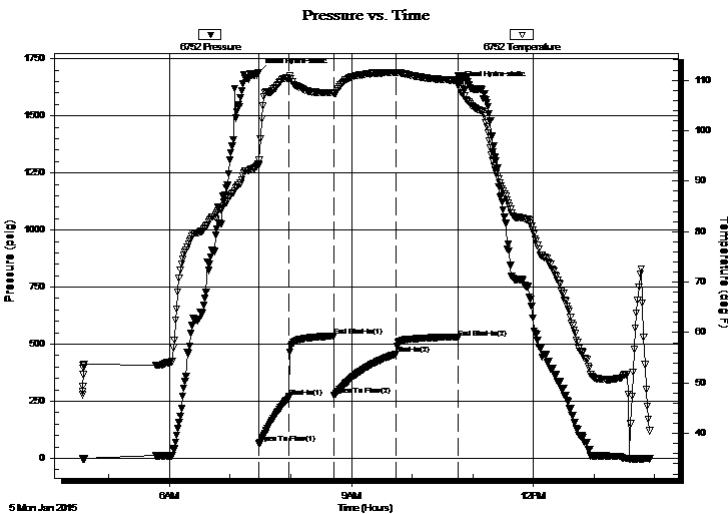
2015.01.05 @ 07:28:00

Time Off Btm:

2015.01.05 @ 10:45:39

TEST COMMENT: 30 IF - 2" blow built to BoB @ 2 mins
45 ISI - Surface blow built to 2"
60 FF - 1" blow built to BoB @ 6 mins
60 FSI - Surface blow built to 1 3/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.19	93.36	Initial Hydro-static
1	65.33	93.14	Open To Flow (1)
31	269.26	110.31	Shut-In(1)
75	535.38	107.51	End Shut-In(1)
75	276.96	107.41	Open To Flow (2)
136	456.70	111.46	Shut-In(2)
198	528.93	109.93	End Shut-In(2)
198	1631.79	109.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOWCM - 10%G - 5%o - 25%W - 60%M	0.60
186.00	GOMCW - 10%G - 10%o - 20%M - 60%W	2.61
301.00	GOMCW - 5%G - 10%o - 10%M - 75%W	4.22
248.00	GOMCW - 15%G - 15%o - 20%M - 50%W	3.48
40.00	GO - 10%G - 90%o	0.56
0.00	217' 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: 62562

DST#: 5

ATTN: Eli Fells / Jeff Bur

Test Start: 2015.01.05 @ 04:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1250.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
62.00	GOWCM - 10%G - 5%o - 25%W - 60%M	0.596
186.00	GOMCW - 10%G - 10%o - 20%M - 60%W	2.609
301.00	GOMCW - 5%G - 10%o - 10%M - 75%W	4.222
248.00	GOMCW - 15%G - 15%o - 20%M - 50%W	3.479
40.00	GO - 10%G - 90%o	0.561
0.00	217' GIP	0.000

Total Length: 837.00 ft Total Volume: 11.467 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: OIL API = 38 @ 50 DEG F = 39 COR 60 DEG F

Pressure vs. Time

