



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Bickle Energies LLC

2052 250th Ave
Hays KS 67601

ATTN: Eil Felts

8-14s-31w Gove Co KS

Cliffhanger #8-1

Job Ticket: 64567

DST#: 1

Test Start: 2016.03.29 @ 18:43:15

GENERAL INFORMATION:

Formation: **Ft. Scott Cherokee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:54:15

Time Test Ended: 01:14:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 75

Interval: 4407.00 ft (KB) To 4460.00 ft (KB) (TVD)

Reference Elevations: 2887.00 ft (KB)

Total Depth: ft (KB) (TVD)

2877.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8737 Outside

Press @ Run Depth: 35.23 psig @ 4416.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.03.29

End Date:

2016.03.30

Last Calib.:

2016.03.30

Start Time:

18:43:15

End Time:

01:14:45

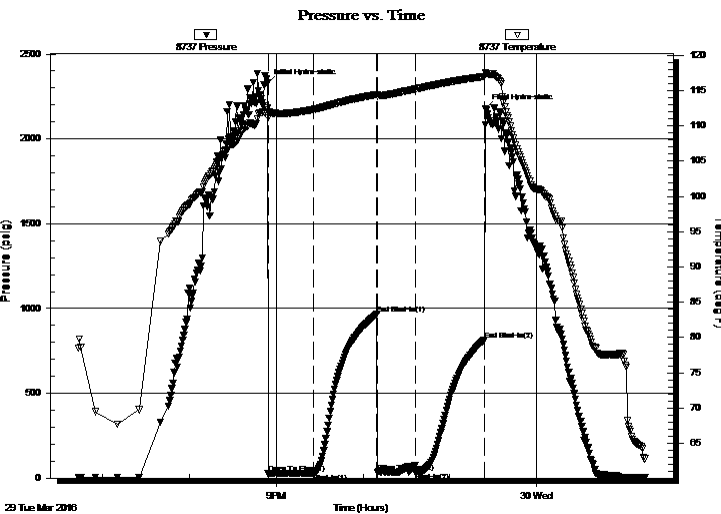
Time On Btm:

2016.03.29 @ 20:54:00

Time Off Btm:

2016.03.29 @ 23:24:45

TEST COMMENT: IF: Built to 1/8" blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2324.02	112.55	Initial Hydro-static
1	26.20	111.19	Open To Flow (1)
32	28.90	112.34	Shut-In(1)
76	965.84	114.45	End Shut-In(1)
76	35.98	114.24	Open To Flow (2)
103	35.23	115.25	Shut-In(2)
150	814.70	117.01	End Shut-In(2)
151	2179.58	117.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	mud with oil spots	0.14

Gas Rates

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

