



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Co. Inc.

22 10s 30w Sheridan KS

1532 S Peiria Ave
Tulsa OK 74120-6202

Hawkeye 1-22

Job Ticket: 61389

DST#: 4

ATTN: Anthony Luna

Test Start: 2015.01.09 @ 18:41:00

GENERAL INFORMATION:

Formation: **LKC " I - K "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:33:45

Time Test Ended: 00:32:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 4092.00 ft (KB) To 4182.00 ft (KB) (TVD)

Reference Elevations: 2828.00 ft (KB)

Total Depth: 4182.00 ft (KB) (TVD)

2823.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8289 Outside

Press @ Run Depth: 35.96 psig @ 4093.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.09

End Date:

2015.01.10

Last Calib.:

2015.01.10

Start Time: 18:41:02

End Time:

00:31:45

Time On Btm:

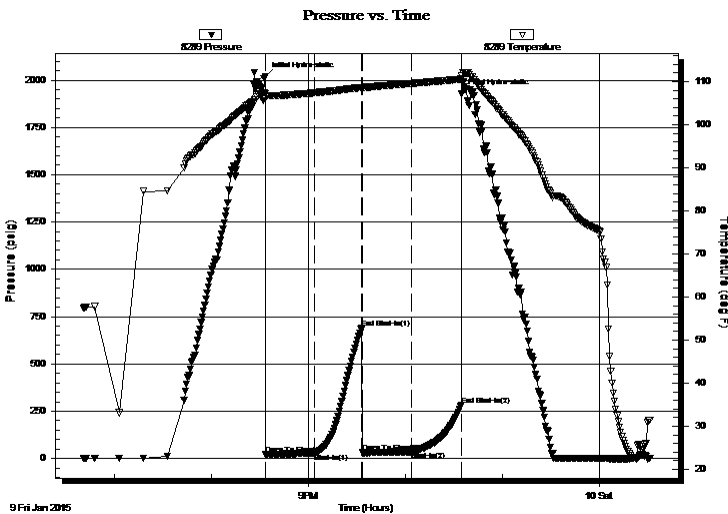
2015.01.09 @ 20:33:30

Time Off Btm:

2015.01.09 @ 22:35:00

TEST COMMENT: 30-IFP- Surface Blow Building to 2 1/2in.
30-ISIP- No Blow
30-FFP- Good Surge on Tool Open ----- No Blow
30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2017.18	107.20	Initial Hydro-static
1	20.39	105.98	Open To Flow (1)
31	28.84	107.41	Shut-In(1)
60	688.33	108.64	End Shut-In(1)
60	31.44	108.48	Open To Flow (2)
91	35.96	109.58	Shut-In(2)
122	280.83	110.59	End Shut-In(2)
122	1930.18	111.30	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OCM 4%o 96%m	0.07

* Recovery from multiple tests

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OCM 4%o 96%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

