



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

20-10s-31w-Thomas, Co KS

1532 S. Peoria Ave.
Tulsa, OK 74120

OstmeyerBixenman120A

ATTN: Pat Deenihan

Job Ticket: 54543

DST#: 3

Test Start: 2013.11.24 @ 01:00:00

GENERAL INFORMATION:

Formation: **Lansing "J & K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:30

Time Test Ended: 10:56:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cornelio Landa III (

Unit No: 64

Interval: 4210.00 ft (KB) To 4273.00 ft (KB) (TVD)

Reference Elevations: 3022.00 ft (KB)

Total Depth: 4273.00 ft (KB) (TVD)

3014.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 18.78 psig @ 4215.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.24

End Date:

2013.11.24

Last Calib.:

2013.11.10

Start Time: 01:00:05

End Time:

10:56:15

Time On Btm:

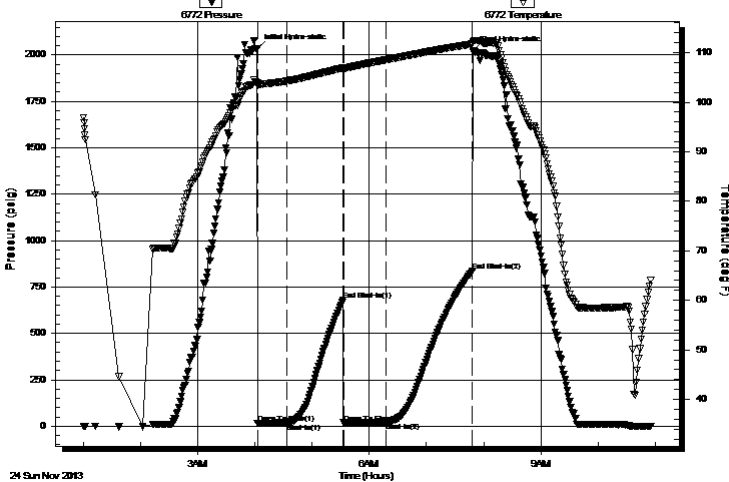
2013.11.24 @ 04:02:15

Time Off Btm:

2013.11.24 @ 07:49:15

TEST COMMENT: IF: 3/4 in. blow -died back to 1/2 in.
IS: Bled off in 1 1/2 min.-surface blow back @ 4 min.shut in-died in 15 min.
FF: Weak surface blow -died in 15 min.
FS: Weak surface blow back-died in 15 min.

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2033.62	103.99	Initial Hydro-static
1	16.64	103.42	Open To Flow (1)
32	17.39	104.28	Shut-In(1)
91	679.29	106.93	End Shut-In(1)
91	17.85	106.72	Open To Flow (2)
136	18.78	108.57	Shut-In(2)
226	837.11	111.79	End Shut-In(2)
227	2022.58	112.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Ocm 2o 98m	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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Test Start: 2013.11.24 @ 01:00:00

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:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 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
5.00	Ocm2o 98m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

