



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Culbreath Oil & Gas Company Inc.

28-11s-32w Logan Co

3501 S Yale Ave
Tulsa Ok
74135
ATTN: Steve Murphy

H Drieling Trust1-28

Job Ticket: 61443 **DST#: 1**
Test Start: 2015.07.31 @ 11:31:15

GENERAL INFORMATION:

Formation: **Toronto**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:43:00

Time Test Ended: 18:06:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 65

Interval: 4018.00 ft (KB) To 4050.00 ft (KB) (TVD)

Reference Elevations: 3078.00 ft (KB)

Total Depth: 4050.00 ft (KB) (TVD)

3073.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8846 Inside

Press @ Run Depth: 793.24 psig @ 4045.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.07.31

End Date: 2015.07.31

Last Calib.: 2015.07.31

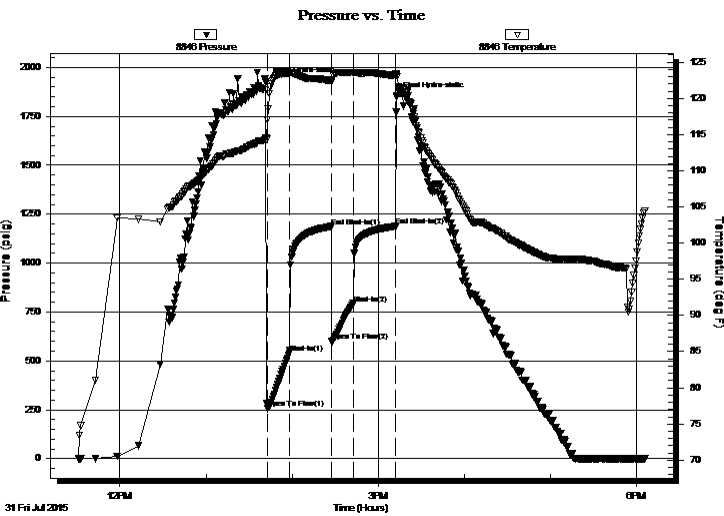
Start Time: 11:31:15

End Time: 18:06:00

Time On Btm: 2015.07.31 @ 13:42:00

Time Off Btm: 2015.07.31 @ 15:12:45

TEST COMMENT: IF:BOB in 2 min.
IS:No return blow
FF:BOB in 1 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1926.28	114.54	Initial Hydro-static
1	256.15	117.02	Open To Flow (1)
16	538.74	123.51	Shut-In(1)
46	1186.80	122.46	End Shut-In(1)
46	600.41	122.26	Open To Flow (2)
61	793.24	123.53	Shut-In(2)
91	1188.25	123.13	End Shut-In(2)
91	1850.27	123.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
428.00	sw 100% sw	4.93
434.00	ocw 30%o 70%w	6.09
534.00	gcw o 5%g 40%w 55%o	7.49
825.00	gcw o 5% g 20%w 75% o	11.57

Gas Rates

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



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FLUID SUMMARY

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DST#: 1

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Test Start: 2015.07.31 @ 11:31:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

19 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

28000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
428.00	sw 100% sw	4.929
434.00	ocw 30%o 70%w	6.088
534.00	gcw o 5%g 40%w 55%o	7.491
825.00	gcw o 5% g 20%w 75% o	11.573

Total Length: 2221.00 ft Total Volume: 30.081 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .20@ 95.7*= 28,000 ppm

API 19 @ 60 Corrected to 19

Pressure vs. Time

