



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Berexco LLC.
 2020 N. Bramblewood
 Wichita, KS 67206-1094
 ATTN: David Gould

23-30s.-19w. Kiowa Co.
Crowe 4-23
 Job Ticket: 49707 **DST#: 1**
 Test Start: 2012.12.04 @ 13:08:28

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:07:28
 Time Test Ended: 23:12:58
 Interval: **4917.00 ft (KB) To 4965.00 ft (KB) (TVD)**
 Total Depth: 4965.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Reynolds
 Unit No: 48
 Reference Elevations: 2265.00 ft (KB)
 2252.00 ft (CF)
 KB to GR/CF: 13.00 ft

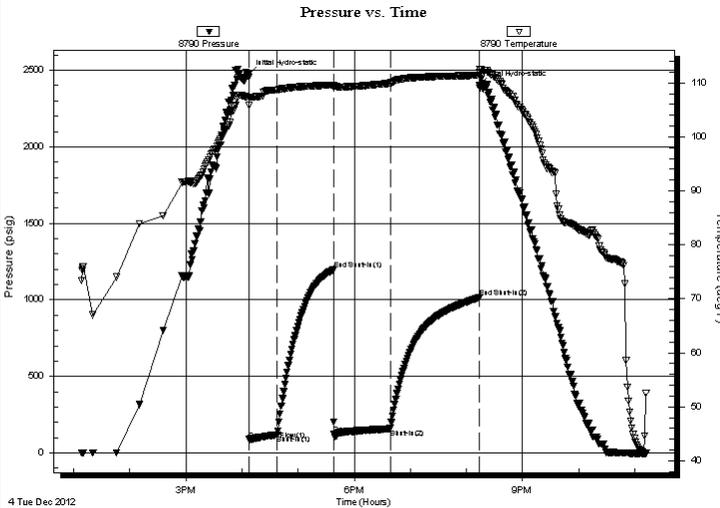
Serial #: 8790

Inside

Press @ Run Depth: 159.70 psig @ 4918.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.04 End Date: 2012.12.04 Last Calib.: 2012.12.04
 Start Time: 13:08:33 End Time: 23:12:58 Time On Btm: 2012.12.04 @ 16:07:13
 Time Off Btm: 2012.12.04 @ 20:13:43

TEST COMMENT: IF: Strong blow . BoB 4min. No GTS.
 IS: No blow
 FF: Strong blow . BOB 30sec. GTS @ 23min. Gauged gas
 FS: No blow

PRESSURE SUMMARY



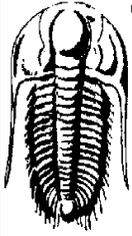
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2472.96	107.35	Initial Hydro-static
1	87.72	105.83	Open To Flow (1)
31	118.28	108.70	Shut-In(1)
91	1197.55	109.63	End Shut-In(1)
92	124.10	109.27	Open To Flow (2)
152	159.70	109.95	Shut-In(2)
247	1013.28	111.42	End Shut-In(2)
247	2403.83	112.04	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	OCMG 10%oil, 40%mud, 50%gas	0.89
90.00	WOCGM 1%w tr, 3%oil, 25%gas, 71%ml	0.44
35.00	SLI WCM 2%w tr, 98%mud	0.17

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	5.00	7.26
Last Gas Rate	0.13	6.75	7.92
Max. Gas Rate	0.13	6.75	7.92



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FLUID SUMMARY

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23-30s.-19w. Kiowa Co.

2020 N. Bramblewood
Wichita, KS 67206-1094

Crowe 4-23

Job Ticket: 49707

DST#: 1

ATTN: David Gould

Test Start: 2012.12.04 @ 13:08:28

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

9000 ppm

Viscosity: 43.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 9000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
180.00	OCMG 10%oil, 40%mud, 50%gas	0.885
90.00	WOCGM 1%w tr, 3%oil, 25%gas, 71%mud	0.443
35.00	SLI WCM 2%w tr, 98%mud	0.172

Total Length: 305.00 ft

Total Volume: 1.500 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: RR-1

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:

