



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production

12-11s-23w Trego

10290 Bradford Rd
Littleton CO, 80127

Patterson # 1-12

ATTN: Justin Carter

Job Ticket: 54478

DST#: 3

Test Start: 2013.10.17 @ 12:08:00

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:54:30

Time Test Ended: 19:32:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 53

Interval: 3566.00 ft (KB) To 3602.00 ft (KB) (TVD)

Reference Elevations: 2241.00 ft (KB)

Total Depth: 3602.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6799

Inside

Press @ Run Depth: 98.19 psig @ 3569.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.17

End Date:

2013.10.17

Last Calib.: 2013.10.17

Start Time: 12:08:05

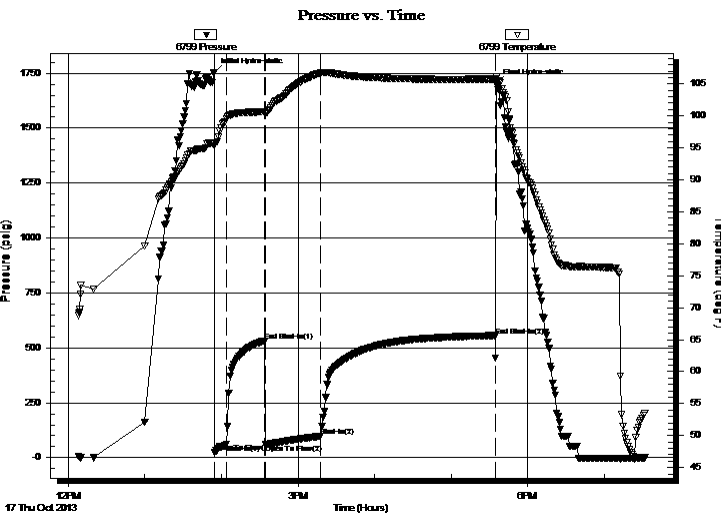
End Time:

19:31:59

Time On Btm: 2013.10.17 @ 13:54:15

Time Off Btm: 2013.10.17 @ 17:35:15

TEST COMMENT: 10 - IF- 5" blow
30 - IS- No return
45 - FF- 7" blow
135 - FS- Surface return, died in 27 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1753.55	95.69	Initial Hydro-static
1	23.06	95.30	Open To Flow (1)
10	60.25	99.58	Shut-In(1)
40	531.77	100.66	End Shut-In(1)
41	61.29	100.29	Open To Flow (2)
84	98.19	106.72	Shut-In(2)
221	555.60	105.79	End Shut-In(2)
221	1704.56	106.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
176.00	SOCWM, 10%O, 40%W, 50%M	1.65
10.00	GO, 5%G, 95%O	0.14

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

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DST#: 3

ATTN: Justin Carter

Test Start: 2013.10.17 @ 12:08:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
176.00	SOCWM, 10%O, 40%W, 50%M	1.649
10.00	GO, 5%G, 95%O	0.140

Total Length: 186.00 ft Total Volume: 1.789 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler: 100ml Oil, 200ml Mud, 1700ml Water, PSI 90

