

TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Elati Ste 201
Littleton, CO 80120

ATTN: Bill Goff

29-19s-33w Scott,Ks

Bontreger RT #1-29

Job Ticket: 49881

DST#: 1

Test Start: 2012.11.06 @ 09:05:56

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:52:56

Time Test Ended: 15:35:26

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane McBride

Unit No: 55

Interval: 4437.00 ft (KB) To 4470.00 ft (KB) (TVD)

Total Depth: 4470.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2990.00 ft (KB)

2985.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: 39.13 psig @ 4438.00 ft (KB)

Start Date: 2012.11.06

End Date:

2012.11.06

Start Time: 09:05:56

End Time:

15:12:26

Capacity: 8000.00 psig

Last Calib.: 2012.11.06

Time On Btm: 2012.11.06 @ 10:52:41

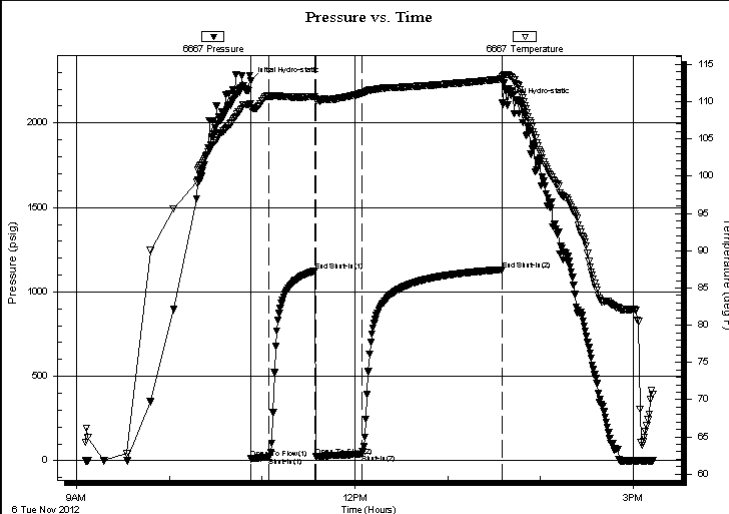
Time Off Btm: 2012.11.06 @ 13:35:26

TEST COMMENT: Weak blow died in 8 min.

No return

No blow

No return



PRESSURE SUMMARY

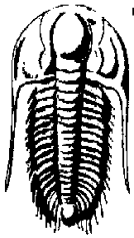
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2248.46	109.76	Initial Hydro-static
1	11.50	109.14	Open To Flow (1)
12	21.77	110.71	Shut-In(1)
42	1124.31	110.67	End Shut-In(1)
42	25.28	110.36	Open To Flow (2)
72	39.13	111.13	Shut-In(2)
163	1131.60	113.03	End Shut-In(2)
163	2119.58	113.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

29-19s-33w Scott, Ks

7851 S Elati Ste 201
Littleton, CO 80120

Bontreger RT #1-29

Job Ticket: 49881

DST#: 1

ATTN: Bill Goff

Test Start: 2012.11.06 @ 09:05:56

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

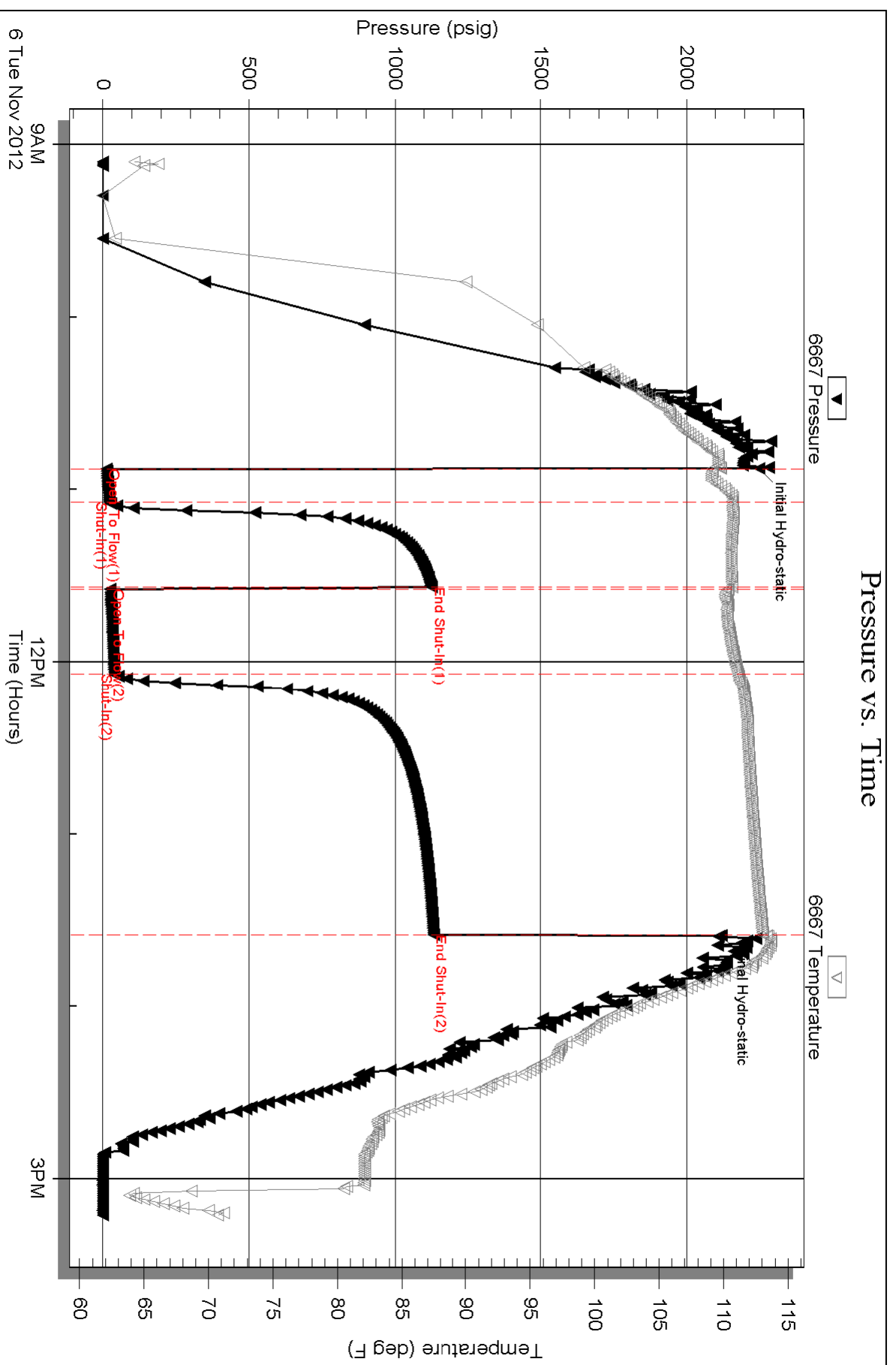
Num Gas Bombs: 0

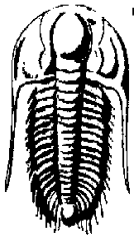
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000 ml mud 220 psi





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Elati Ste 201
Littleton, Colo
80120
ATTN: Bill Goff

29-19s-33w Scott,Ks

Bontreger RT #1-29

Job Ticket: 49882

DST#: 2

Test Start: 2012.11.07 @ 03:10:29

GENERAL INFORMATION:

Formation: **Ft. Scott - Cherokee**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 04:59:59

Time Test Ended: 10:55:29

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: **4440.00 ft (KB) To 4563.00 ft (KB) (TVD)**

Total Depth: 4563.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2990.00 ft (KB)

2985.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6667 Inside

Press@RunDepth: 52.68 psig @ 4441.00 ft (KB)

Start Date: 2012.11.07

End Date:

2012.11.07

Start Time: 03:10:29

End Time:

10:31:29

Capacity: 8000.00 psig

Last Calib.: 2012.11.07

Time On Btm: 2012.11.07 @ 04:59:44

Time Off Btm: 2012.11.07 @ 08:14:14

TEST COMMENT: 1/4" in blow
No return
1/4" in blow
No return

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2214.64	106.17	Initial Hydro-static
1	15.42	105.08	Open To Flow (1)
11	26.23	106.60	Shut-In(1)
55	1148.31	107.76	End Shut-In(1)
56	29.00	107.34	Open To Flow (2)
101	52.68	109.20	Shut-In(2)
194	1112.32	111.22	End Shut-In(2)
195	2114.48	111.29	Final Hydro-static

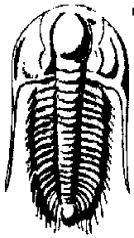
Gas Rates

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

Recovery

Length (ft)	Description	Volume (bbl)
65.00	mud 100% m	0.32

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

29-19s-33w Scott, Ks

7851 S Elati Ste 201
Littleton, Colo
80120
ATTN: Bill Goff

Bontreger RT #1-29

Job Ticket: 49882

DST#: 2

Test Start: 2012.11.07 @ 03:10:29

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	mud 100%m	0.320

Total Length: 65.00 ft Total Volume: 0.320 bbl

Num Fluid Samples: 0

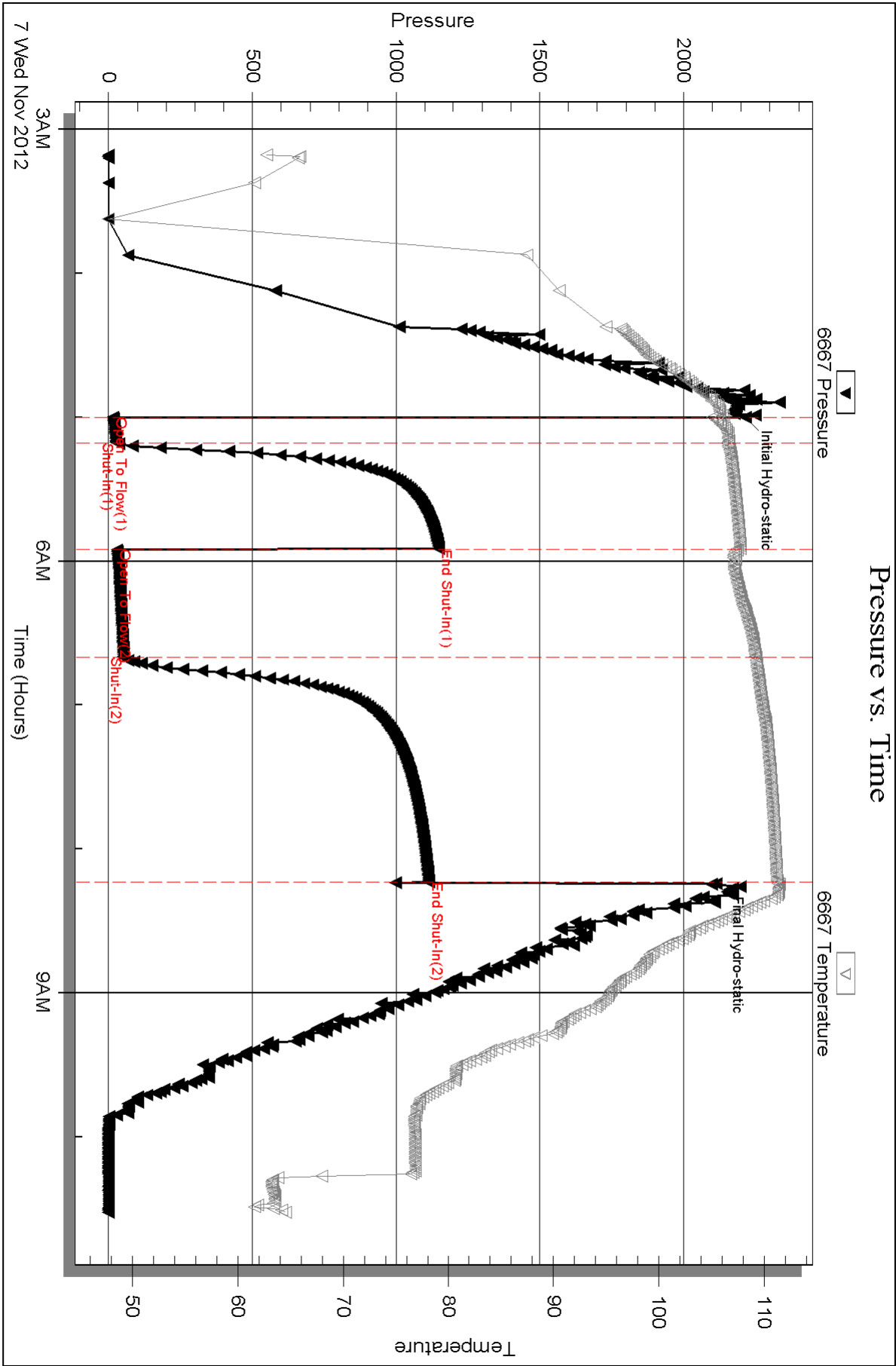
Num Gas Bombs: 0

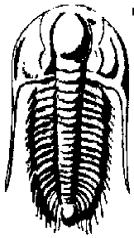
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 2000 ml mud 240 psi





TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Cholla Production LLC

7851 S Elati Ste 201
Littleton, Colo
80120
ATTN: Bill Goff

29-19s-33w Scott, Ks

Bontreger RT #1-29

Job Ticket: 49883

DST#: 3

Test Start: 2012.11.07 @ 23:45:54

GENERAL INFORMATION:

Formation: **Morrow**

Deviated: No Whipstock: 0.00 ft (KB)

Time Tool Opened: 02:12:24

Time Test Ended: 08:05:54

Test Type: Conventional Bottom Hole (Reset)

Tester: Shane McBride

Unit No: 55

Interval: 4635.00 ft (KB) To 4687.00 ft (KB) (TVD)

Total Depth: 4687.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2990.00 ft (KB)

2985.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8368 Outside

Press@RunDepth: 77.79 psig @ 4636.00 ft (KB)

Start Date: 2012.11.07

End Date:

2012.11.08

Start Time: 23:45:54

End Time:

07:48:54

Capacity: 8000.00 psig

Last Calib.: 2012.11.08

Time On Btm: 2012.11.08 @ 02:12:09

Time Off Btm: 2012.11.08 @ 05:24:24

TEST COMMENT: 3" in blow
No return
B.O.B. in 18 min.
1 1/2" in return blow

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2375.94	110.78	Initial Hydro-static
1	27.87	109.68	Open To Flow (1)
10	55.56	113.45	Shut-In(1)
40	949.55	115.31	End Shut-In(1)
43	66.74	115.24	Open To Flow (2)
70	77.79	116.66	Shut-In(2)
192	1040.05	118.94	End Shut-In(2)
193	2229.66	119.43	Final Hydro-static

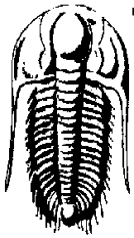
Gas Rates

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	s g m c o 5g 15m 80o	0.30
90.00	s g o c m 5g 20o 75m	0.68
0.00	100% very weak gas in pipe	0.00

* Recovery from multiple tests



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Cholla Production LLC

29-19s-33w Scott, Ks

7851 S Elati Ste 201
Littleton, Colo
80120
ATTN: Bill Goff

Bontreger RT #1-29

Job Ticket: 49883

DST#: 3

Test Start: 2012.11.07 @ 23:45:54

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 7.97 in³

Resistivity: 0.00 ohm.m

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

0 deg API

0 ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	s g m c o 5g 15m 80o	0.295
90.00	s g o c m 5g 20o 75m	0.679
0.00	100'very weak gas in pipe	0.000

Total Length: 150.00 ft

Total Volume: 0.974 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: sampler 1000ml oil 300ml mud 1.3 cubic ft gas 500 psi

Serial #: 8368

Outside Cholla Production LLC

Bontreger RT #1-29

DST Test Number: 3

