



**TRILOBITE**  
**TESTING, INC.**

## DRILL STEM TEST REPORT

Resource Development Technology LLC.

**1-16s-45w-Cheyenne Co, Colorado**

P.O. Box 1020  
Morrison, Co 80465

**Nininger #11-1-1645**

Job Ticket: 54518

**DST#: 1**

ATTN: Phil Askey

Test Start: 2013.10.11 @ 00:51:00

### GENERAL INFORMATION:

Formation: **Shawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:03:10

Time Test Ended: 07:18:50

Test Type: Conventional Bottom Hole (Initial)

Tester: Cornelio Landa III (

Unit No: 62

**Interval: 4068.00 ft (KB) To 4110.00 ft (KB) (TVD)**

Reference Elevations: 4356.00 ft (KB)

Total Depth: 4110.00 ft (KB) (TVD)

4345.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

**Serial #: 6751 Outside**

Press@RunDepth: 34.61 psig @ 4073.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.11

End Date:

2013.10.11

Last Calib.: 2013.10.11

Start Time: 00:51:02

End Time:

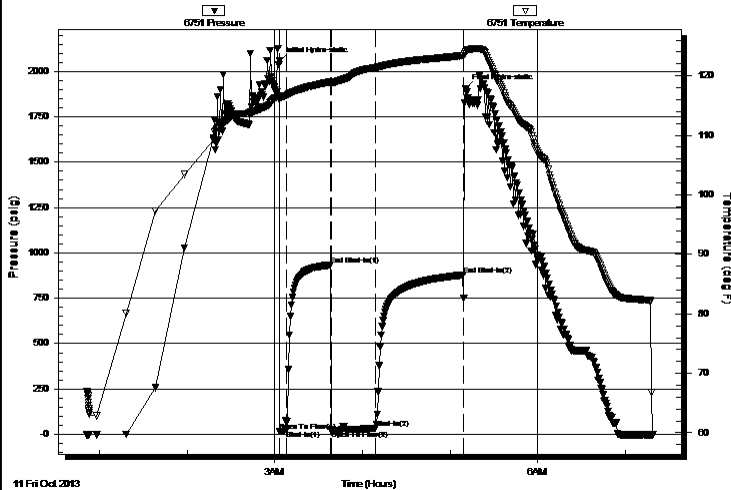
07:18:50

Time On Btm: 2013.10.11 @ 03:03:00

Time Off Btm: 2013.10.11 @ 05:10:39

**TEST COMMENT:** IF: 1/2 in. Blow  
ISI: Surface blow back-died in 15 mins.  
FF: 1/2 in. Blow  
FSI: No return blow back

Pressure vs. Time



PRESSURE SUMMARY

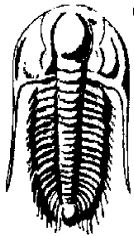
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2056.44	116.66	Initial Hydro-static
1	15.19	115.93	Open To Flow (1)
5	23.66	116.70	Shut-In(1)
35	933.36	118.98	End Shut-In(1)
36	19.56	118.64	Open To Flow (2)
66	34.61	121.32	Shut-In(2)
126	878.08	123.39	End Shut-In(2)
128	1903.08	124.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100m	0.15

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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### FLUID SUMMARY

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Job Ticket: 54518

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### 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: 60.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.36 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud 100m	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6751

Outside

Resource Development Technology LLC.

Nininger #11-1-1645

DST Test Number: 1

