



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Shelby Resources L.L.C

**3-22s-16w Pawnee**

445 Union Blvd Suite 208 Lakewood CO 80228

**Arkansas River Unit**

ATTN: Jeremy Schwartz

Job Ticket: 61895

**DST#: 2**

Test Start: 2014.12.13 @ 11:45:00

## GENERAL INFORMATION:

Formation: **Simpson Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:00

Time Test Ended: 20:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: S5-Great Bend -50

**Interval: 3897.00 ft (KB) To 3945.00 ft (KB) (TVD)**

Reference Elevations: 1999.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

## Serial #: 8400

Press @ Run Depth: 1138.95 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.12.13 End Date: 2014.12.13

Last Calib.: 2014.12.13

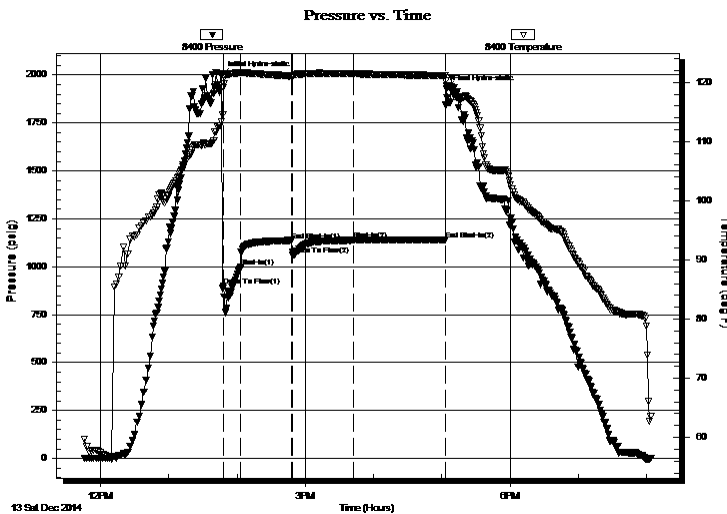
Start Time: 11:46:00 End Time: 20:04:00

Time On Btm: 2014.12.13 @ 13:46:30

Time Off Btm: 2014.12.13 @ 17:04:00

**TEST COMMENT:** IFP- 15 Minutes-Strong blow built bottom of bucket in 1 minute  
 ISIP-45 Minutes-No blow back  
 FFP-45 Minutes-Strong blow built bottom of bucket in 1 minute  
 FSIP-90 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1995.22	113.34	Initial Hydro-static
2	899.77	119.15	Open To Flow (1)
17	997.00	121.63	Shut-In(1)
62	1137.36	121.06	End Shut-In(1)
63	1060.58	121.04	Open To Flow (2)
116	1138.95	121.50	Shut-In(2)
197	1141.35	121.16	End Shut-In(2)
198	1926.41	119.45	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2200.00	water	30.04

## Gas Rates

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



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Reference Elevations: 1999.00 ft (KB)

Total Depth: 3945.00 ft (KB) (TVD)

1986.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 13.00 ft

## Serial #: 6999

Press @ Run Depth: 1141.97 psig @ ft (KB)

Capacity: 5000.00 psig

Start Date: 2014.12.13

End Date: 2014.12.13

Last Calib.: 2014.12.13

Start Time: 11:46:00

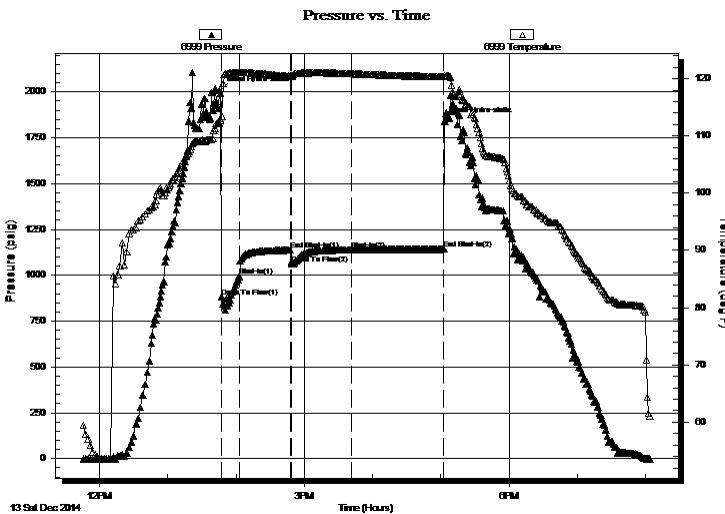
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 ISIP-45 Minutes-No blow back  
 FFP-45 Minutes-Strong blow built bottom of bucket in 1 minute  
 FSIP-90 Minutes-No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2006.70	112.77	Initial Hydro-static
2	880.27	113.44	Open To Flow (1)
17	997.55	121.06	Shut-In(1)
62	1137.60	120.44	End Shut-In(1)
63	1061.28	120.47	Open To Flow (2)
116	1138.63	120.86	Shut-In(2)
197	1141.97	120.33	End Shut-In(2)
198	1839.79	120.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2200.00	water	30.04

## Gas Rates

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



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# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources L.L.C

**3-22s-16w Pawnee**

445 Union Blvd Suite 208 Lakewood CO 80228

**Arkansas River Unit**

ATTN: Jeremy Schwartz

Job Ticket: 61895

**DST#: 2**

Test Start: 2014.12.13 @ 11:45:00

### 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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.15 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5600.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

#### Recovery Table

Length ft	Description	Volume bbbl
2200.00	water	30.040

Total Length: 2200.00 ft      Total Volume: 30.040 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: chlorides 48,000 resistivity .15@58 degrees

