



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

SAMUEL GARY & ASSOC. INC.

**SEC. 24 - 12 S. - 23 W. TREGO CO.**

1515 WYNKOOP SUITE 700  
DENVER COLORADO  
80202  
ATTN: DANIEL PRITCHARD

**SCHNEIDER #1-24**

Job Ticket: 55866

**DST#: 1**

Test Start: 2013.12.07 @ 23:05:00

## GENERAL INFORMATION:

Formation: **E & F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:00

Time Test Ended: 07:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: BOB HAMEL

Unit No: 66

**Interval: 3708.00 ft (KB) To 3764.00 ft (KB) (TVD)**

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3764.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8653 Outside**

Press @ Run Depth: 47.63 psig @ 3746.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.07 End Date: 2013.12.08

Last Calib.: 2013.12.08

Start Time: 23:06:00 End Time: 07:33:00

Time On Btm: 2013.12.08 @ 01:13:00

Time Off Btm: 2013.12.08 @ 05:07:30

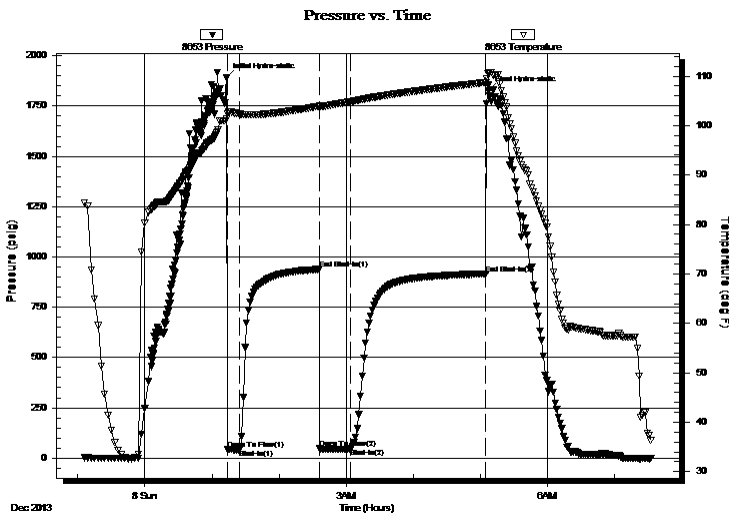
**TEST COMMENT:** I.F. - 10 - 1/4 INT. BLOW BUILT TO (1 1/4" IN 10 MIN.)

I.S.I. - 75 - NO B.B.

F.F. - 30 - W.S.B. AFTER 5 MIN. NO BUILD

F.S.I. - 120 - NO B.B.

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.53	101.29	Initial Hydro-static
1	41.93	102.37	Open To Flow (1)
12	42.18	102.34	Shut-In(1)
83	938.88	103.91	End Shut-In(1)
84	46.53	103.78	Open To Flow (2)
111	47.63	104.84	Shut-In(2)
232	916.10	108.73	End Shut-In(2)
235	1824.91	110.63	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 20% OIL 80% MUD	0.21

## Gas Rates

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



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Job Ticket: 55866

**DST#: 1**

Test Start: 2013.12.07 @ 23:05:00

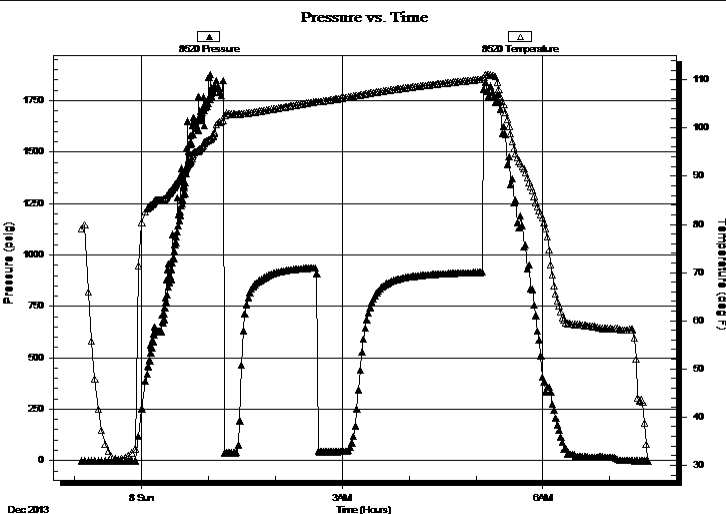
## GENERAL INFORMATION:

Formation: **E & F**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 01:14:00 Tester: BOB HAMEL  
 Time Test Ended: 07:33:00 Unit No: 66  
 Interval: **3708.00 ft (KB) To 3764.00 ft (KB) (TVD)** Reference Elevations: 2416.00 ft (KB)  
 Total Depth: 3764.00 ft (KB) (TVD) 2408.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

## Serial #: 8520

Press @ Run Depth: psig @ ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.12.07 End Date: 2013.12.08 Last Calib.: 1899.12.30  
 Start Time: 23:06:00 End Time: 07:34:30 Time On Btm:  
 Time Off Btm:

TEST COMMENT: I.F. - 10 - 1/4 INT. BLOW BUILT TO (1 1/4" IN 10 MIN.)  
 I.S.I. - 75 - NO B.B.  
 F.F. - 30 - W.S.B. AFTER 5 MIN. NO BUILD  
 F.S.I. - 120 - NO B.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 20% OIL 80% MUD	0.21

## Gas Rates

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



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ATTN: DANIEL PRITCHARD

**SCHNEIDER #1-24**

Job Ticket: 55866

**DST#: 1**

Test Start: 2013.12.07 @ 23:05:00

## GENERAL INFORMATION:

Formation: **E & F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:14:00

Time Test Ended: 07:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: BOB HAMEL

Unit No: 66

**Interval: 3708.00 ft (KB) To 3764.00 ft (KB) (TVD)**

Reference Elevations: 2416.00 ft (KB)

Total Depth: 3764.00 ft (KB) (TVD)

2408.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

## Serial #: 8874

Press @ Run Depth: psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.12.07 End Date: 2013.12.08

Last Calib.: 1899.12.30

Start Time: 23:06:00 End Time: 07:33:30

Time On Btm:

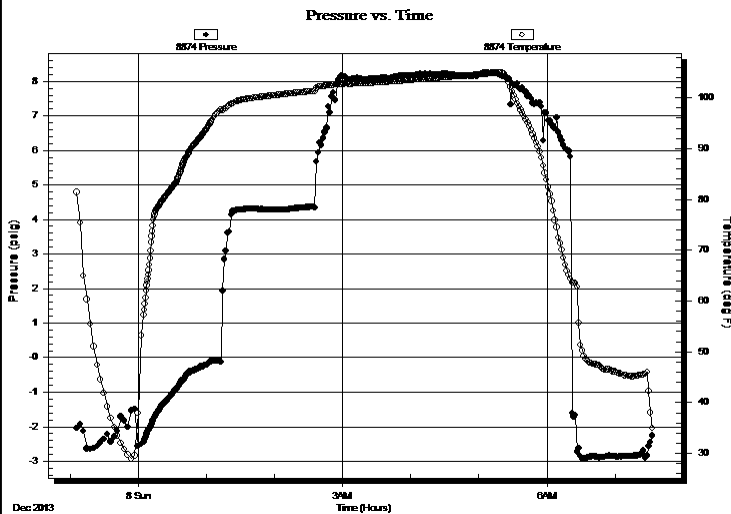
Time Off Btm:

TEST COMMENT: I.F. - 10 - 1/4 INT. BLOW BUILT TO (1 1/4" IN 10 MIN.)

I.S.I. - 75 - NO B.B.

F.F. - 30 - W.S.B. AFTER 5 MIN. NO BUILD

F.S.I. - 120 - NO B.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
15.00	HOCM 20% OIL 80% MUD	0.21

## Gas Rates

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



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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

SAMUEL GARY & ASSOC. INC.

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DENVER COLORADO  
80202  
ATTN: DANIEL PRITCHARD

**SCHNEIDER #1-24**

Job Ticket: 55866

**DST#: 1**

Test Start: 2013.12.07 @ 23:05:00

## 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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4800.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	HOCM 20% OIL 80% MUD	0.210

Total Length: 15.00 ft      Total Volume: 0.210 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments: SAMPLER REC. = 2,000 M.L. TOTAL FLUID

OIL = 500 M.L.  
MUD = 1,500 M.L.  
P.S.I. = 50

