



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Steffen Resources Development

**18-30s-7w Kingman Co., Ks.**

3500 N Mayfield Rd  
Hutchinson, Ks. 67502

**Steffen Family 1-19**

Job Ticket: 64940

**DST#: 1**

ATTN: Keith Reavis

Test Start: 2019.09.06 @ 20:08:31

## GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:59:46

Time Test Ended: 04:41:16

Test Type: Conventional Bottom Hole (Initial)

Tester: Matt Smith

Unit No: 68

**Interval: 4129.00 ft (KB) To 4137.00 ft (KB) (TVD)**

Reference Elevations: 1472.00 ft (KB)

Total Depth: 4137.00 ft (KB) (TVD)

1465.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8931**

**Inside**

Press@RunDepth: 20.57 psig @ 4130.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.06

End Date:

2019.09.07

Last Calib.:

2019.09.07

Start Time:

20:08:36

End Time:

04:41:16

Time On Btm:

2019.09.06 @ 22:53:46

Time Off Btm:

2019.09.07 @ 02:59:46

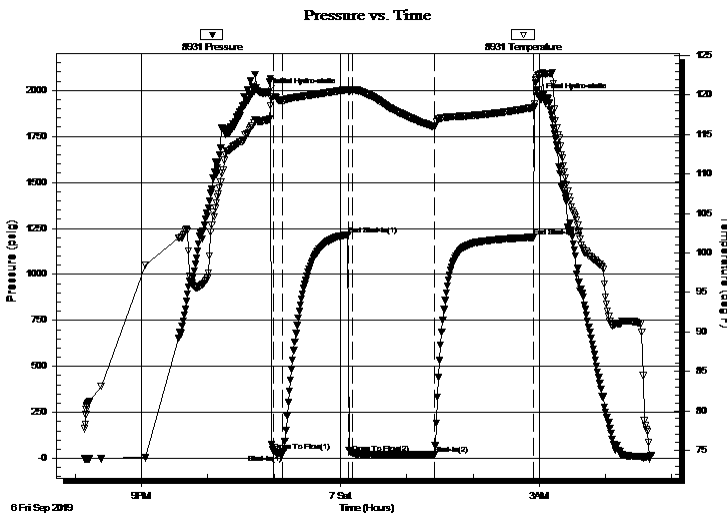
TEST COMMENT: IF: Strong Blow . B.O.B. in 1 min. Built to 52.52".

IS: No Blow .

FF: Strong Blow . B.O.B., immediate. Built to 200.65". G.T.S. in 44 mins. Gauged Gas.

FS: No Blow .

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1987.12	116.83	Initial Hydro-static
6	37.59	119.76	Open To Flow (1)
15	24.40	119.31	Shut-In(1)
74	1216.45	120.73	End Shut-In(1)
77	30.30	120.70	Open To Flow (2)
152	20.57	115.94	Shut-In(2)
242	1201.69	118.43	End Shut-In(2)
246	1960.01	122.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud 100%m	0.03
0.00	G.I.P. 100%g	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.31	7.75
Last Gas Rate	0.13	9.07	8.78
Max. Gas Rate	0.13	9.07	8.78



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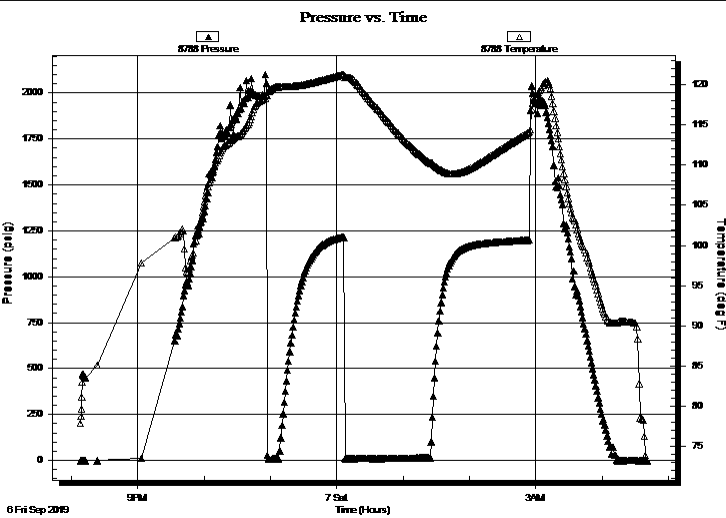
Test Start: 2019.09.06 @ 20:08:31

## GENERAL INFORMATION:

Formation: **Mississippi**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 22:59:46 Tester: Matt Smith  
 Time Test Ended: 04:41:16 Unit No: 68  
 Interval: **4129.00 ft (KB) To 4137.00 ft (KB) (TVD)** Reference Elevations: 1472.00 ft (KB)  
 Total Depth: 4137.00 ft (KB) (TVD) 1465.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

**Serial #: 8788 Outside**  
 Press@RunDepth: psig @ 4130.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2019.09.06 End Date: 2019.09.07 Last Calib.: 2019.09.07  
 Start Time: 20:08:18 End Time: 04:40:58 Time On Btm:  
 Time Off Btm:

**TEST COMMENT:** IF: Strong Blow . B.O.B. in 1 min. Built to 52.52".  
 IS: No Blow .  
 FF: Strong Blow . B.O.B., immediate. Built to 200.65". G.T.S. in 44 mins. Gauged Gas.  
 FS: No Blow .



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	Drig Mud 100%m	0.03
0.00	G.I.P. 100%g	0.00

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	6.31	7.75
Last Gas Rate	0.13	9.07	8.78
Max. Gas Rate	0.13	9.07	8.78



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**FLUID SUMMARY**

Steffen Resources Development

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Job Ticket: 64940

**DST#: 1**

ATTN: Keith Reavis

Test Start: 2019.09.06 @ 20:08:31

## 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:

4000 ppm

Viscosity: 45.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.58 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 4000.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 0.20 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	Drig Mud 100%m	0.028
0.00	G.I.P. 100%g	0.000

Total Length: 2.00 ft      Total Volume: 0.028 bbf

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: MAS PRATT

Laboratory Name:

Laboratory Location:

Recovery Comments: 4,127 Ft G.I.P.

