



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Carrie Exploration adn Development

17/19S/10W/Rice

210 W 22nd
Hays, Kansas 67601

Hager C-1

Job Ticket: 60274

DST#: 2

ATTN: Steve Reed

Test Start: 2014.09.24 @ 16:23:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:52:30

Time Test Ended: 22:31:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: S1 Great Bend/40

Interval: 3255.00 ft (KB) To 3330.00 ft (KB) (TVD)

Reference Elevations: 1772.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

1764.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6749

Inside

Press@RunDepth: 88.91 psig @ 3325.65 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.24

End Date: 2014.09.24

Last Calib.: 2014.09.24

Start Time: 16:24:00

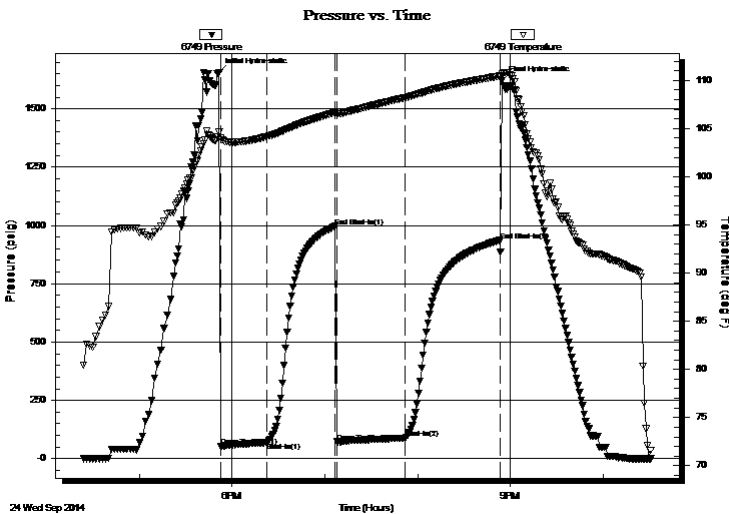
End Time: 22:31:00

Time On Btm: 2014.09.24 @ 17:51:30

Time Off Btm: 2014.09.24 @ 20:54:30

TEST COMMENT: 1ST Open 30 Minutes/Fair blow /Blow built to 7 1/4 inches
1ST Shut In 45 Minutes/Blow back built to just below surface
2ND Open 45 Minutes/Good blow /Blow built to 11 inches
2ND Shut In 60 Minutes/Blow back built to 1/4 inch

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1654.77	104.62	Initial Hydro-static
1	51.99	104.00	Open To Flow (1)
31	69.62	104.17	Shut-In(1)
75	996.08	106.67	End Shut-In(1)
76	72.57	106.50	Open To Flow (2)
121	88.91	108.22	Shut-In(2)
182	935.05	110.45	End Shut-In(2)
183	1620.49	110.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
74.00	Gas cut Oily Mud	0.36
0.00	Gas 15% Oil 25% Mud 60%	0.00
40.00	Clean gassy oil	0.20
0.00	Gas 10% Oil 90%	0.00
0.00	134 feet of gas in pipe	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Carrie Exploration adn Development

17/19S/10W/Rice

210 W 22nd
Hays, Kansas 67601

Hager C-1

Job Ticket: 60274

DST#: 2

ATTN: Steve Reed

Test Start: 2014.09.24 @ 16:23:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

39 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
74.00	Gas cut Oily Mud	0.364
0.00	Gas 15% Oil 25% Mud 60%	0.000
40.00	Clean gassy oil	0.197
0.00	Gas 10% Oil 90%	0.000
0.00	134 feet of gas in pipe	0.000

Total Length: 114.00 ft

Total Volume: 0.561 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

