



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Valhalla Exploration, LLC

11/21s/14w/Stafford

8100 E. 22nd St
N BLDG 1800-2
Wichita Ks, 67226
ATTN: Adam Kennedy

Schartz #1-11

Job Ticket: 60459

DST#: 2

Test Start: 2014.09.19 @ 17:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:07:00

Time Test Ended: 01:04:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: S3/26/Great Bend

Interval: 3603.00 ft (KB) To 3671.00 ft (KB) (TVD)

Reference Elevations: 1929.00 ft (KB)

Total Depth: 3671.00 ft (KB) (TVD)

1924.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 5.00 ft

Serial #: 8524 Inside

Press @ Run Depth: 1196.75 psig @ 3667.20 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.09.19

End Date:

2014.09.20

Last Calib.:

2014.09.20

Start Time: 17:16:00

End Time:

01:04:00

Time On Btm:

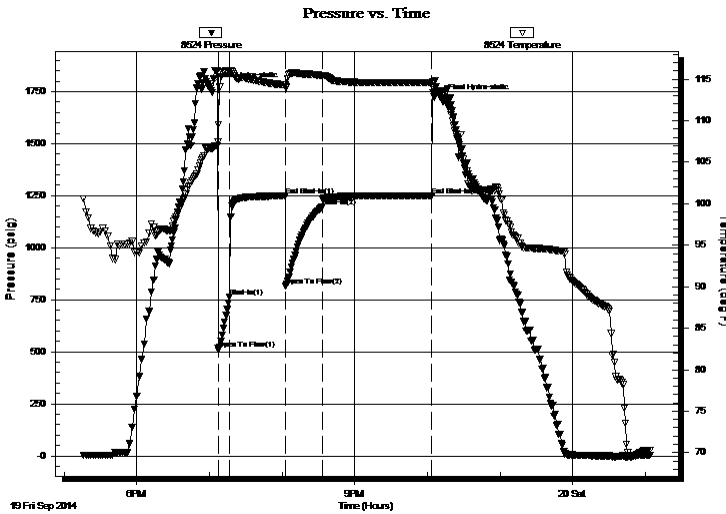
2014.09.19 @ 18:59:30

Time Off Btm:

2014.09.19 @ 22:11:30

TEST COMMENT: 1st Open/ 10 Minutes. Strong blow built to bottom of 5 gallon bucket in 40 seconds.
1st Shut In/ 45 Minutes. No blow back.
2nd Open/ 30 Minutes. Strong blow built to bottom of 5 gallon bucket in 40 seconds.
2nd Shut In/ 90 Minutes. No blow back.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1775.13	106.63	Initial Hydro-static
8	515.04	107.46	Open To Flow (1)
17	762.81	115.96	Shut-In(1)
63	1248.98	114.29	End Shut-In(1)
64	817.41	114.12	Open To Flow (2)
94	1196.75	115.45	Shut-In(2)
184	1249.22	114.59	End Shut-In(2)
192	1717.58	113.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	Muddy water	3.09
0.00	40% Mud, 60% Water	0.00
2457.00	100% Water	34.47
0.00	resist recov w as .22 at 40 degrees	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Valhalla Exploration, LLC

11/21s/14w/Stafford

8100 E. 22nd St
N BLDG 1800-2
Wichita Ks, 67226
ATTN: Adam Kennedy

Schartz #1-11

Job Ticket: 60459

DST#: 2

Test Start: 2014.09.19 @ 17:15:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 12.58 in³
Resistivity: ohm.m
Salinity: 10200.00 ppm
Filter Cake: 2.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 31000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	Muddy water	3.086
0.00	40% Mud, 60% Water	0.000
2457.00	100% Water	34.465
0.00	resist recov w as .22 at 40 degrees	0.000

Total Length: 2677.00 ft Total Volume: 37.551 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

