



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Operating Co
 125 N Market Ste 125
 Wichita, KS 67202
 ATTN: Bill Klaver

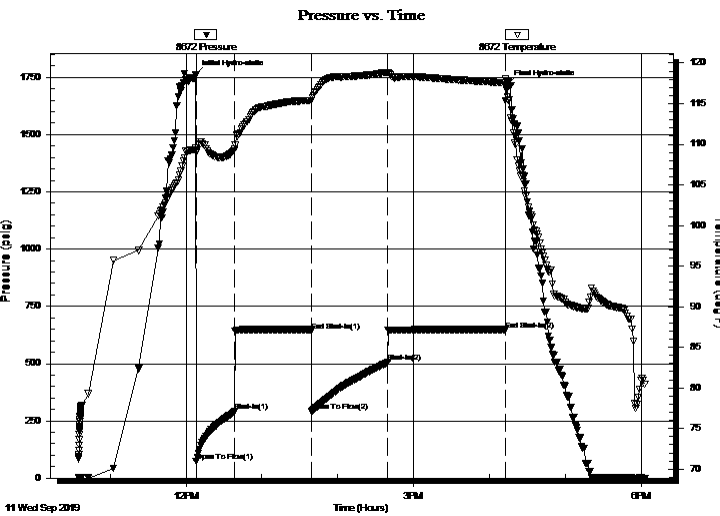
1-22S-3W Harvey
Stucky 1
 Job Ticket: 65905 **DST#: 3**
 Test Start: 2019.09.11 @ 10:35:00

GENERAL INFORMATION:

Formation: **Hunton**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 12:08:02
 Tester: Leal Cason
 Time Test Ended: 18:03:02
 Unit No: 74
 Interval: **3454.00 ft (KB) To 3552.00 ft (KB) (TVD)**
 Reference Elevations: 1466.00 ft (KB)
 Total Depth: 3552.00 ft (KB) (TVD)
 1453.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Good
 KB to GR/CF: 13.00 ft

Serial #: 8672 Inside
 Press@RunDepth: 506.11 psig @ 3455.00 ft (KB) Capacity: psig
 Start Date: 2019.09.11 End Date: 2019.09.11 Last Calib.: 2019.09.11
 Start Time: 10:35:01 End Time: 18:03:02 Time On Btm: 2019.09.11 @ 12:07:47
 Time Off Btm: 2019.09.11 @ 16:14:17

TEST COMMENT: IF: Fair Blow , BOB in 8 minutes, Built to 45 inches
 IS: No Blow Back
 FF: Fair Blow , BOB in 12 minutes, Built to 77 inches
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1759.50	109.51	Initial Hydro-static
1	72.16	109.02	Open To Flow (1)
31	290.63	109.39	Shut-In(1)
91	643.48	115.37	End Shut-In(1)
92	291.32	115.33	Open To Flow (2)
152	506.11	118.81	Shut-In(2)
245	648.28	117.54	End Shut-In(2)
247	1716.16	115.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	134 GIP	0.00
180.00	Water	0.89
310.00	MCW 30%M 70%W	4.35
447.00	SOWCM 2%O 48%W 50%M	6.27

* Recovery from multiple tests

Gas Rates

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



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FLUID SUMMARY

Woolsey Operating Co

1-22S-3W Harvey

125 N Market Ste 125
Wichita, KS 67202

Stucky 1

Job Ticket: 65905

DST#: 3

ATTN: Bill Klaver

Test Start: 2019.09.11 @ 10:35:00

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:

26000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	134 GIP	0.000
180.00	Water	0.885
310.00	MCW 30%M 70%W	4.348
447.00	SOWCM 2%O 48%W 50%M	6.270

Total Length: 937.00 ft Total Volume: 11.503 bbl

Num Fluid Samples: 0

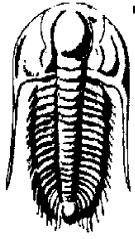
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW w as .23 @ 81 degrees



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GAS RATES

Woolsey Operating Co

1-22S-3W Harvey

125 N Market Ste 125
Wichita, KS 67202

Stucky 1

Job Ticket: 65905

DST#: 3

ATTN: Bill Klaver

Test Start: 2019.09.11 @ 10:35:00

Gas Rates Information

Temperature: 59 (deg F)
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

