



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Hutchinson Oil Co
 PO Box 521
 Derby, KS 67037
 ATTN: Jeff Burk

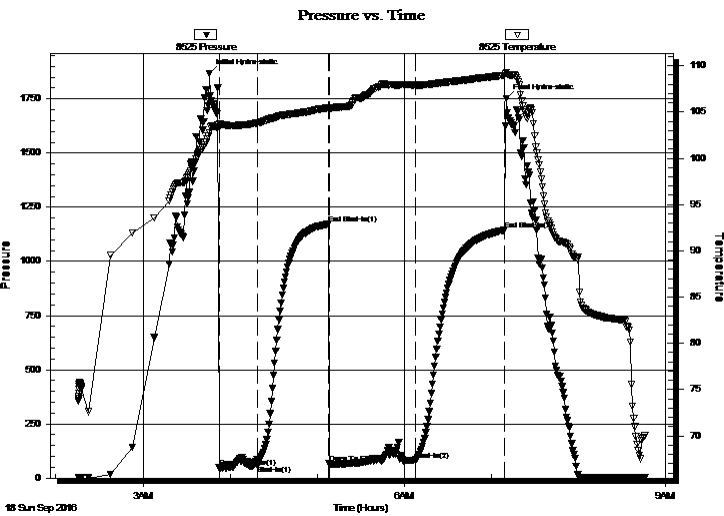
5-23S-12W Stafford
Hitz 2
 Job Ticket: 55416 **DST#: 3**
 Test Start: 2016.09.18 @ 02:15:37

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 03:52:22 Tester: Leal Cason
 Time Test Ended: 08:46:07 Unit No: 74
 Interval: **3481.00 ft (KB) To 3550.00 ft (KB) (TVD)** Reference Elevations: 1849.00 ft (KB)
 Total Depth: 3550.00 ft (KB) (TVD) 1844.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8525 Inside
 Press @ Run Depth: 82.27 psig @ 3482.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2016.09.18 End Date: 2016.09.18 Last Calib.: 2016.09.18
 Start Time: 02:15:38 End Time: 08:46:07 Time On Btm: 2016.09.18 @ 03:45:37
 Time Off Btm: 2016.09.18 @ 07:10:22

TEST COMMENT: IF: Weak Blow , Built to 3 inches
 IS: No Blow Back
 FF: Weak Blow , Built to 3 inches
 FS: No Blow Back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1868.14	102.77	Initial Hydro-static
7	48.03	103.35	Open To Flow (1)
34	60.48	103.81	Shut-In(1)
82	1172.58	105.46	End Shut-In(1)
83	66.50	105.23	Open To Flow (2)
142	82.27	107.91	Shut-In(2)
204	1144.44	108.96	End Shut-In(2)
205	1751.81	109.28	Final Hydro-static

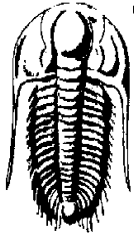
Recovery

Length (ft)	Description	Volume (bbl)
90.00	VSOSM -1%O +99%M	1.26

* Recovery from multiple tests

Gas Rates

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



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Hitz 2

Job Ticket: 55416

DST#: 3

ATTN: Jeff Burk

Test Start: 2016.09.18 @ 02:15:37

GENERAL INFORMATION:

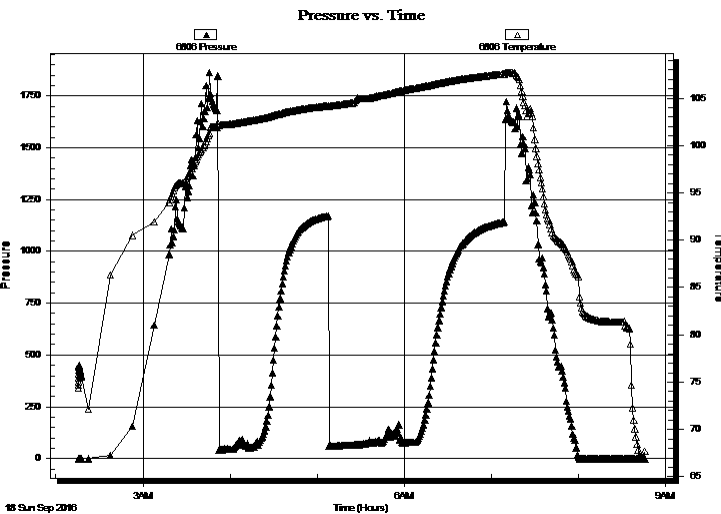
Formation: KC			
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Bottom Hole (Reset)	
Time Tool Opened: 03:52:22		Tester: Leal Cason	
Time Test Ended: 08:46:07		Unit No: 74	
Interval: 3481.00 ft (KB) To 3550.00 ft (KB) (TVD)		Reference Elevations: 1849.00 ft (KB)	
Total Depth: 3550.00 ft (KB) (TVD)		1844.00 ft (CF)	
Hole Diameter: 7.88 inches	Hole Condition: Good	KB to GR/CF: 5.00 ft	

Serial #: 6806

Outside

Press @RunDepth: psig @ 3482.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2016.09.18 End Date: 2016.09.18	Last Calib.: 2016.09.18
Start Time: 02:15:38 End Time: 08:45:52	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF: Weak Blow , Built to 3 inches
IS: No Blow Back
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FS: No Blow Back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	VSOSM -1%O +99%M	1.26

Gas Rates

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

* Recovery from multiple tests



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FLUID SUMMARY

Hutchinson Oil Co

5-23S-12W Stafford

PO Box 521
Derby, KS 67037

Hitz 2

Job Ticket: 55416

DST#: 3

ATTN: Jeff Burk

Test Start: 2016.09.18 @ 02:15:37

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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 0.02 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	VSOSM-1%O +99%M	1.262

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

