



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dixon Operating Co., Inc.

4-23S-12W Stafford KS

8100 E 22nd ST
N. BLDG 300 SUITE 200
Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

GENERAL INFORMATION:

Formation: **LKC 'A-F'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:51:00

Time Test Ended: 14:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3310.00 ft (KB) To 3388.00 ft (KB) (TVD)

Reference Elevations: 1849.00 ft (KB)

Total Depth: 3388.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 8368

Inside

Press@RunDepth: 569.94 psig @ 3314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.22

End Date: 2018.07.22

Last Calib.: 2018.07.22

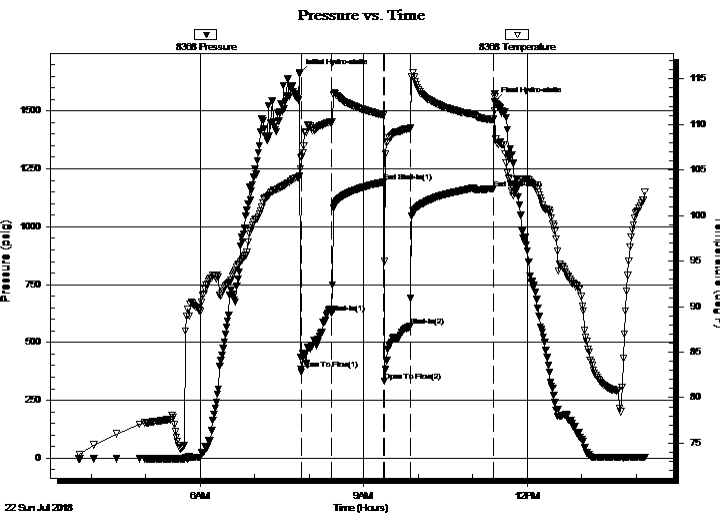
Start Time: 03:46:15

End Time: 14:09:30

Time On Btm: 2018.07.22 @ 07:49:15

Time Off Btm: 2018.07.22 @ 11:24:15

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 sec ; GTS 3 min ; Spitting Fluid in 20 min
60-ISI-Bled Off
30-FF-Strong Blow ; BOB in 1 min ; Spitting Fluid in 12 min
90-FSI-Bled Off



PRESSURE SUMMARY

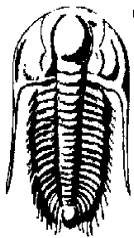
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1659.33	104.34	Initial Hydro-static
2	385.10	106.33	Open To Flow (1)
36	626.28	110.24	Shut-In(1)
93	1192.07	111.00	End Shut-In(1)
94	333.81	94.97	Open To Flow (2)
122	569.94	109.58	Shut-In(2)
214	1163.73	110.57	End Shut-In(2)
215	1538.52	111.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
340.00	MCW 10%M 90%W	3.32
180.00	MCOW 10%M 10%O 80%W	2.55
60.00	MCOW 10%M 30%O 60%W	0.85
70.00	GO 40%G 60%O	0.99

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.88	23.00	802.80
Last Gas Rate	0.88	40.25	1173.08
Max. Gas Rate	0.88	40.25	1173.08



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Total Depth: 3388.00 ft (KB) (TVD)

1838.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 11.00 ft

Serial #: 9120

Inside

Press@RunDepth: psig @ 3314.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.07.22 End Date: 2018.07.22

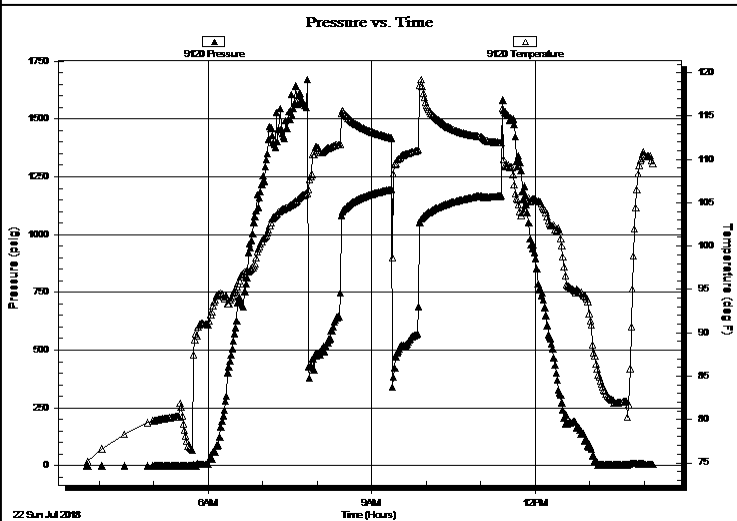
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Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Strong Blow ; BOB in 10 sec ; GTS 3 min ; Spitting Fluid in 20 min
60-ISI-Bled Off
30-FF-Strong Blow ; BOB in 1 min ; Spitting Fluid in 12 min
90-FSI-Bled Off



PRESSURE SUMMARY

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

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
340.00	MCW 10%M 90%W	3.32
180.00	MCOW 10%M 10%O 80%W	2.55
60.00	MCOW 10%M 30%O 60%W	0.85
70.00	GO 40%G 60%O	0.99

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.88	23.00	802.80
Last Gas Rate	0.88	40.25	1173.08
Max. Gas Rate	0.88	40.25	1173.08



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DRILL STEM TEST REPORT

FLUID SUMMARY

Dixon Operating Co., Inc.

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Wichita KS 67226
ATTN: Bruce Reed

Edna Mae #1-4

Job Ticket: 63918

DST#: 1

Test Start: 2018.07.22 @ 03:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 3000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: 42 deg API

Water Salinity: 53000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
340.00	MCW 10%M 90%W	3.320
180.00	MCOW 10%M 10%O 80%W	2.552
60.00	MCOW 10%M 30%O 60%W	0.851
70.00	GO 40%G 60%O	0.992

Total Length: 650.00 ft Total Volume: 7.715 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 1#LCM



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DRILL STEM TEST REPORT

GAS RATES

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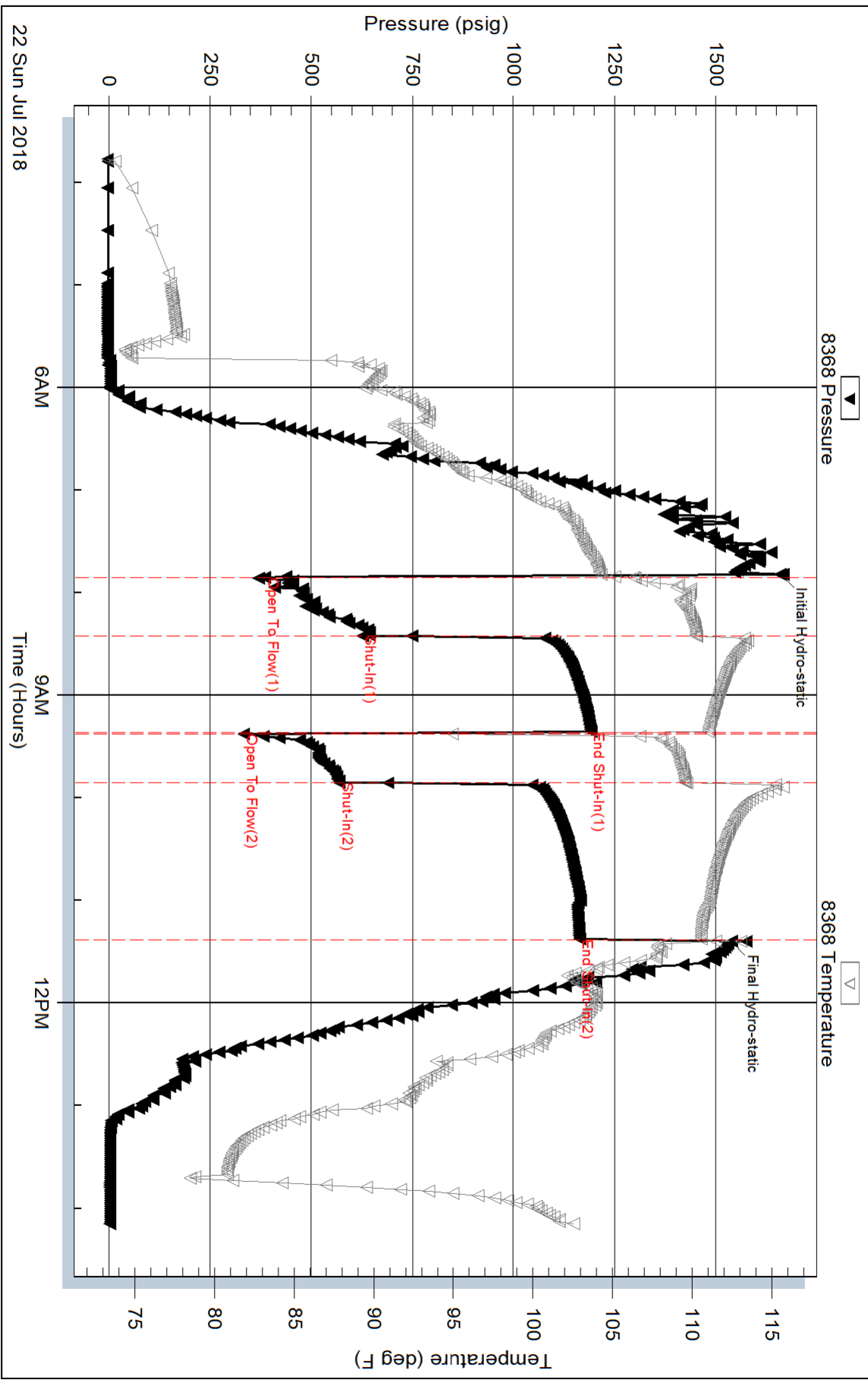
Gas Rates Information

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)
1	5	0.88	23.00	802.80
1	10	0.88	21.50	770.60
1	20	0.88	20.00	738.40
1	30	0.88	19.50	727.67
2	5	0.88	36.00	1081.85
2	10	0.88	28.50	920.86
2	20	0.88	35.00	1060.38
2	30	0.88	40.25	1173.08

Pressure vs. Time



Serial #: 9120

Inside

Dixon Operating Co., Inc.

Edna Mae #1-4

DST Test Number: 1

