

**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

A.W.I.

POB 389
Garden City, KS 67846

ATTN: Jason Alm

LaDonna 1-29

S29-18s-21w Ness

Job Ticket: 040635

DST#: 1

Test Start: 2011.01.20 @ 05:47:00

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:48:00

Time Test Ended: 12:36:30

Test Type: Conventional Bottom Hole

Tester: Chuck Smith

Unit No: 37

Interval: **4210.00 ft (KB) To 4220.00 ft (KB) (TVD)**

Total Depth: 4220.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2126.00 ft (KB)

2120.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8018 Inside

Press@RunDepth: 177.95 psig @ 4212.00 ft (KB)

Start Date: 2011.01.20

End Date:

2011.01.20

Start Time: 05:47:05

End Time:

12:36:29

Capacity: 8000.00 psig

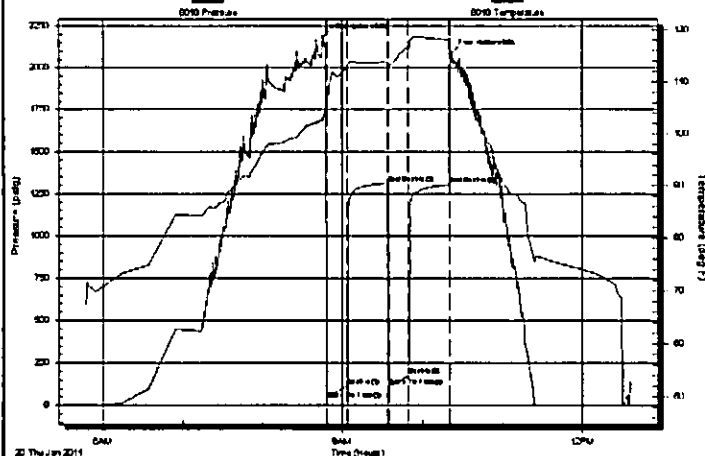
Last Calib.: 2011.01.20

Time On Btm: 2011.01.20 @ 08:45:30

Time Off Btm: 2011.01.20 @ 10:21:30

TEST COMMENT: IF: B.O.B. @ 7 min.
IS: 4" Return.
FF: B.O.B. @ 7 min.
FS: 6" Return.

Pressure vs Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.41	102.67	Initial Hydro-static
3	34.68	103.85	Open To Flow (1)
18	116.74	112.76	Shut-In(1)
49	1311.75	113.78	End Shut-In(1)
49	117.88	113.10	Open To Flow (2)
64	177.95	116.39	Shut-In(2)
95	1302.98	118.03	End Shut-In(2)
96	2086.17	115.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	RW: Not enough clean water to get PPM	0.00
120.00	GWMCO 10g 5w 15m 70o	0.59
63.00	GWOCM 15g 5w 20o 60m	0.88
282.00	GO 20g 80o	3.96
0.00	283 Feet GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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DRILL STEM TEST REPORT

FLUID SUMMARY

A.W.I.

LaDonna 1-29

POB 389
Garden City, KS 67846

S29-18s-21w Ness

Job Ticket: 040635 **DST#: 1**

ATTN: Jason Alm

Test Start: 2011.01.20 @ 05:47:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

41 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8600.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	RW: Not enough clean water to get PPM	0.000
120.00	GWMO 10g 5w 15m 70o	0.590
63.00	GWOCM 15g 5w 20o 60m	0.884
282.00	GO 20g 80o	3.956
0.00	283 Feet GIP	0.000

Total Length: 465.00 ft

Total Volume: 5.430 bbl

Num Fluid Samples: 0

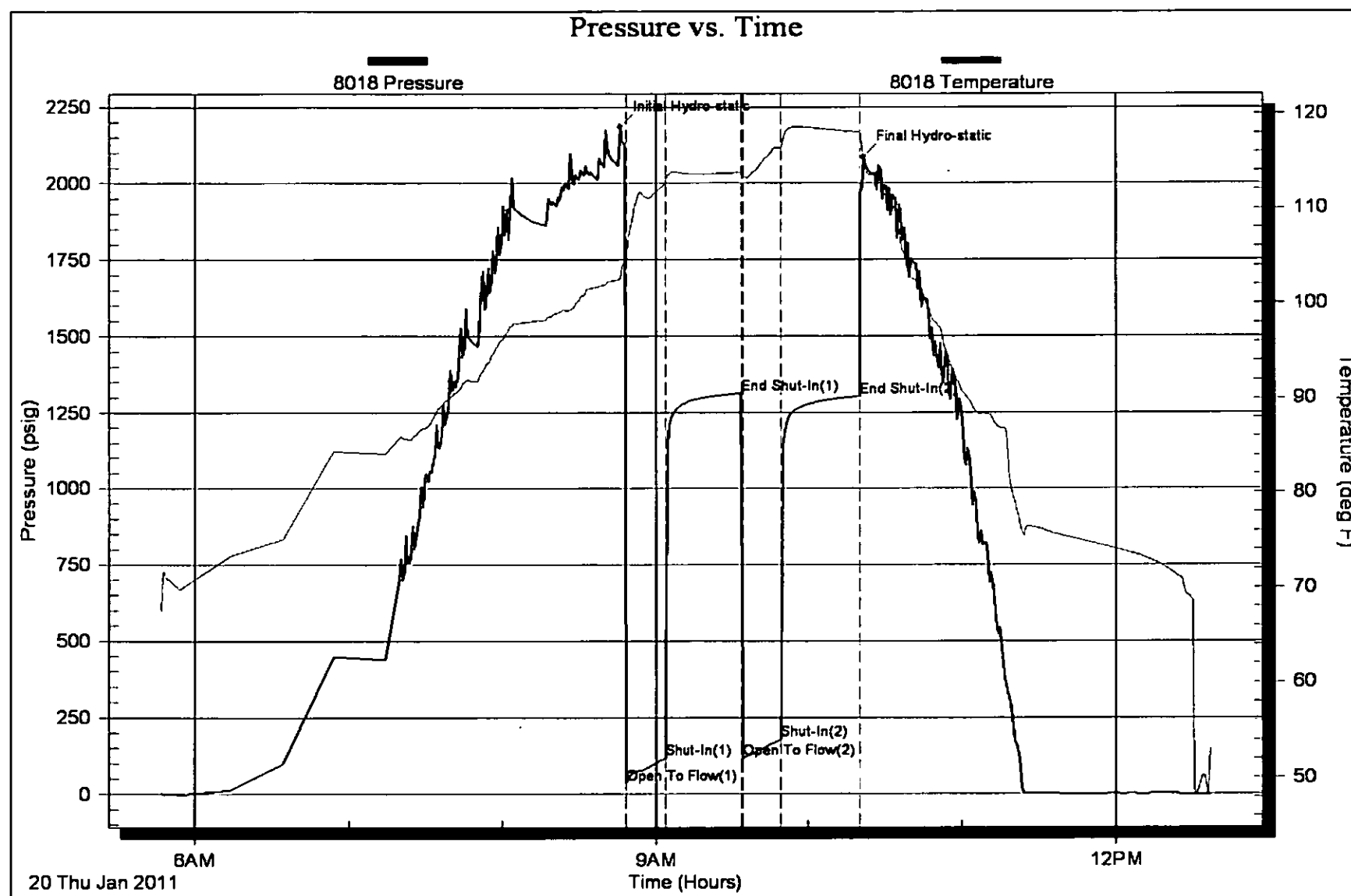
Num Gas Bombs: 0

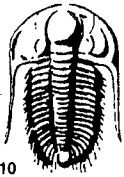
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API:39 @40 Degrees F = 41.





**TRILOBITE
TESTING INC.**

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 040635 15318

Well Name & No. La Donna 1-29 Test No. 1 Date 1-20-11
Company A.W.I. Elevation 2126 KB 2120 GL
Address POB 389 Garden City, KS 67846
Co. Rep / Geo. Jason Alm Rig Petromark 1
Location: Sec. 29 Twp. 18s Rge. 21w Co. Ness State KS

Interval Tested 4210 - 4220 Zone Tested Miss
Anchor Length 10 Drill Pipe Run 4072 Mud Wt. 9.4
Top Packer Depth 4206 Drill Collars Run 120 Vis 51
Bottom Packer Depth 4210 Wt. Pipe Run — WL 7.2
Total Depth 4220 Chlorides 8600 ppm System LCM 0

Blow Description IF: B.O.B. @ 7 min.

ISI: 4" Return

FF: B.O.B. @ 7 min.

FSI: 6" Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>282</u>	<u>GO</u>	<u>20</u>	<u>80</u>		
<u>63</u>	<u>GWOCM</u>	<u>15</u>	<u>20</u>	<u>5</u>	<u>60</u>
<u>120</u>	<u>GWMC0</u>	<u>10</u>	<u>70</u>	<u>5</u>	<u>15</u>
	<u>Couldn't get water PPM</u>				

Rec Total 465 BHT 118 Gravity 41 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2184

(B) First Initial Flow 35

(C) First Final Flow 117

(D) Initial Shut-In 1312

(E) Second Initial Flow 118

(F) Second Final Flow 178

(G) Final Shut-In 1303

(H) Final Hydrostatic 2086

☒ Test 1225

☒ Jars 250

☒ Safety Joint 75

☒ Circ Sub 50

☐ Hourly Standby

☒ Mileage 135 RT 168.75

☐ Sampler

☐ Straddle

☐ Shale Packer

☐ Extra Packer

☐ Extra Recorder

☐ Day Standby

☐ Accessibility

Sub Total 1768.75

T-On Location 5:00

T-Started 5:47

T-Open 8:48

T-Pulled 10:20

T-Out 12:37

Comments 283' GIP

☐ Ruined Shale Packer

☐ Ruined Packer

☐ Extra Copies 8

Sub Total 1768.75

Total

MP/DST Disc't

Initial Open 15

Initial Shut-In 30

Final Flow 15

Final Shut-In 30

Approved By Jason Alm

Our Representative Chuck Smith

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