



DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Co Inc**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

J & A Urban #1-15

15 16s 17w Rush,KS

Start Date: 2014.06.01 @ 03:03:00

End Date: 2014.06.01 @ 09:05:00

Job Ticket #: 58875 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.02 @ 13:56:23



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

15 16s 17w Rush,KS

PO Box 1019
Hays KS 67601

J & A Urban #1-15

Job Ticket: 58875

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.01 @ 03:03:00

GENERAL INFORMATION:

Formation: **LKC " H-J "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:15:45

Time Test Ended: 09:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3432.00 ft (KB) To 3497.00 ft (KB) (TVD)

Reference Elevations: 2020.00 ft (KB)

Total Depth: 3497.00 ft (KB) (TVD)

2013.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 35.98 psig @ 3437.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.06.01 End Date: 2014.06.01

Last Calib.: 2014.06.01

Start Time: 03:03:02 End Time: 09:02:15

Time On Btm: 2014.06.01 @ 05:15:30

Time Off Btm: 2014.06.01 @ 07:16:00

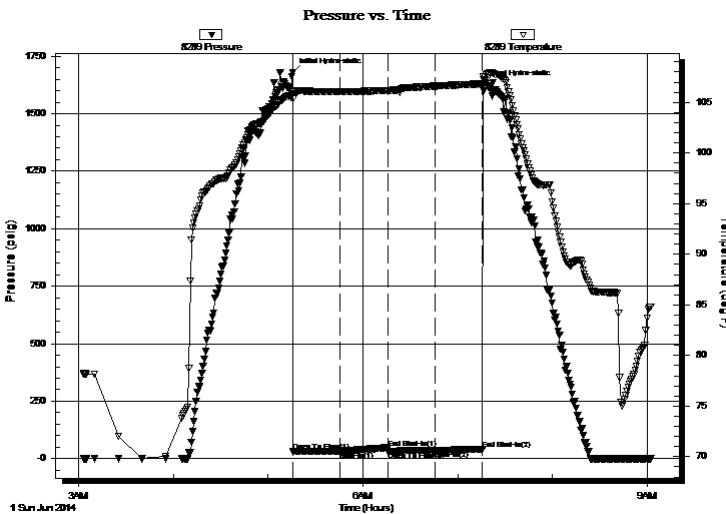
TEST COMMENT: 30-IFP- Surface Blow Died in 18 min. Slid 8ft.

30-ISIP- No Blow

30-FFP- No Blow Flushed No Blow

30-FSIP- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.30	105.87	Initial Hydro-static
1	31.85	105.41	Open To Flow (1)
30	32.89	106.05	Shut-In(1)
60	46.50	106.18	End Shut-In(1)
61	32.70	106.17	Open To Flow (2)
91	35.98	106.61	Shut-In(2)
121	42.43	106.84	End Shut-In(2)
121	1626.14	107.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%	0.28

Gas Rates

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



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TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

15 16s 17w Rush,KS

PO Box 1019
Hays KS 67601

J & A Urban #1-15

Job Ticket: 58875

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.01 @ 03:03:00

Tool Information

Drill Pipe:	Length: 3388.00 ft	Diameter: 3.80 inches	Volume: 47.52 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	57000.00 lb
			<u>Total Volume: 47.67 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	55000.00 lb
Depth to Top Packer:	3432.00 ft			Final	55000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	65.00 ft				
Tool Length:	86.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3412.00	
Shut In Tool	5.00			3417.00	
Hydraulic tool	5.00			3422.00	
Packer	5.00			3427.00	21.00 Bottom Of Top Packer
Packer	5.00			3432.00	
Stubb	1.00			3433.00	
Perforations	3.00			3436.00	
Change Over Sub	1.00			3437.00	
Recorder	0.00	8789	Inside	3437.00	
Recorder	0.00	8289	Outside	3437.00	
Blank Spacing	31.00			3468.00	
Change Over Sub	1.00			3469.00	
Perforations	25.00			3494.00	
Bullnose	3.00			3497.00	65.00 Bottom Packers & Anchor

Total Tool Length: 86.00



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FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

15 16s 17w Rush,KS

PO Box 1019
Hays KS 67601

J & A Urban #1-15

Job Ticket: 58875

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.06.01 @ 03:03:00

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:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	Mud 100%	0.279

Total Length: 40.00 ft Total Volume: 0.279 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

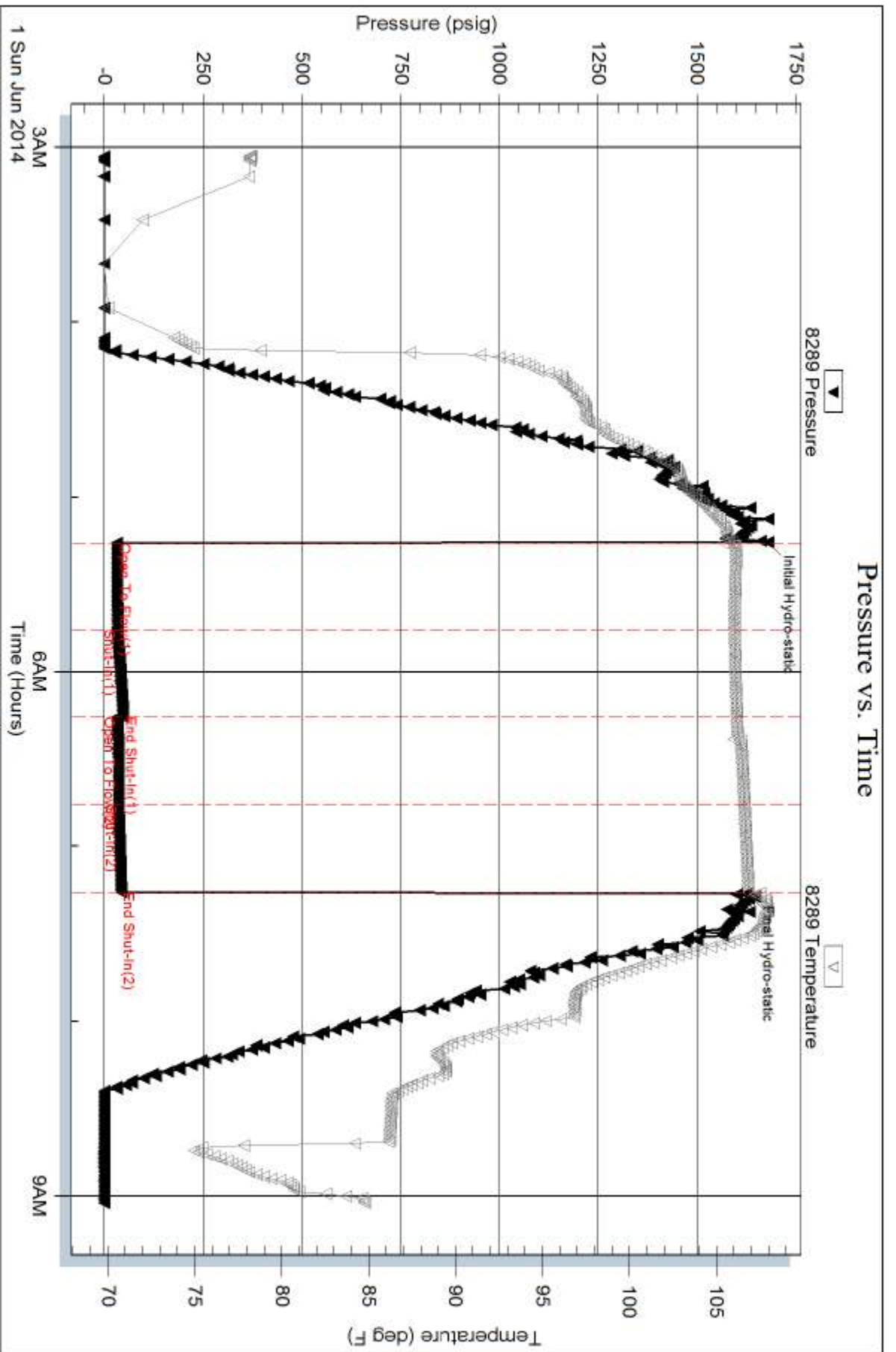
Recovery Comments:

Serial #: 8289

Outside Dow nting-Nelson Oil Co Inc

J & A Urban #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58875

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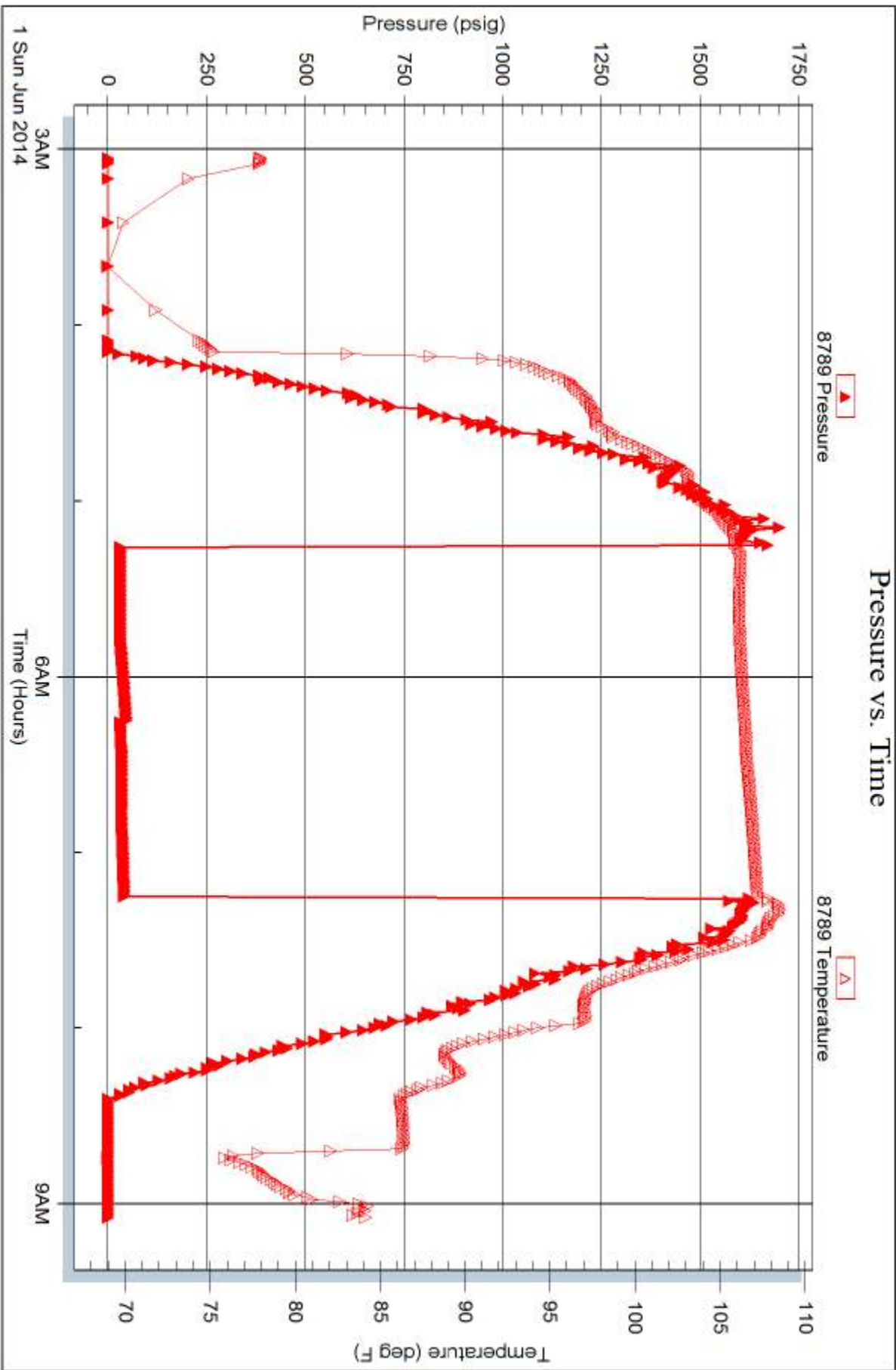
Serial #: 8789

Inside

Dow nrg-Nelson Oil Co Inc

J & A Urban #1-15

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 58875

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58875

Well Name & No. J+A Urban #1-15 Test No. 1 Date 6-1-14
 Company Downing Nelson Oil Co Inc Elevation 2020 KB 2013 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 15 Twp. 16^S Rge. 17W Co. Rush State KS

Interval Tested 3432-3497 Zone Tested LRC "A-J"
 Anchor Length 65 Drill Pipe Run 3388 Mud Wt. 9
 Top Packer Depth 3427 Drill Collars Run 31 Vis 49
 Bottom Packer Depth 3432 Wt. Pipe Run 0 WL 8
 Total Depth 3497 Chlorides 5000 ppm System LCM 2

Blow Description IFP - Surface Blow Died in 18 min.
ISIP - No Blow
FIP - No Blow Flushed No Blow
FSIP - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>MUD</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 107 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1679 Test 1150 T-On Location 1:20
 (B) First Initial Flow 31 Jars _____ T-Started 3:03
 (C) First Final Flow 32 Safety Joint _____ T-Open 5:16
 (D) Initial Shut-In 46 Circ Sub _____ T-Pulled 7:16
 (E) Second Initial Flow 32 Hourly Standby _____ T-Out 9:05
 (F) Second Final Flow 35 Mileage 48 RT 74.40 Comments _____
 (G) Final Shut-In 42 Sampler _____
 (H) Final Hydrostatic 1626 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1224.40
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1224.40

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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UNITED STATES DEPARTMENT OF JUSTICE

COMMUNICATIONS SECTION



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