



DRILL STEM TEST REPORT

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

P.O. Box 1019
Hays KS 67601

ATTN: Marc Downing

Amy #1-30

30 14s 18w Ellis,KS

Start Date: 2014.01.25 @ 19:01:00

End Date: 2014.01.25 @ 23:50:00

Job Ticket #: 50419 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.30 @ 11:00:31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50419

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.01.25 @ 19:01:00

GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:04:15

Time Test Ended: 23:50:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 54

Interval: 3297.00 ft (KB) To 3316.00 ft (KB) (TVD)

Reference Elevations: 2066.00 ft (KB)

Total Depth: 3316.00 ft (KB) (TVD)

2059.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 12.77 psig @ 3298.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.25 End Date: 2014.01.25

Last Calib.: 2014.01.25

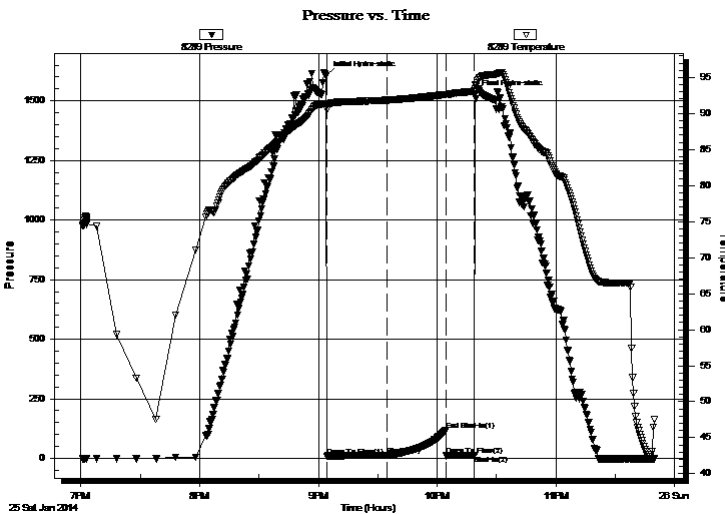
Start Time: 19:01:02 End Time: 23:49:45

Time On Btm: 2014.01.25 @ 21:04:00

Time Off Btm: 2014.01.25 @ 22:19:00

TEST COMMENT: 30-IFP- Weak Blow 1/8"
30-ISIP- No Blow
15-FFP Weak Surface Blow
Pulled

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1604.62	91.40	Initial Hydro-static
1	10.29	90.45	Open To Flow (1)
31	12.77	91.86	Shut-In(1)
61	118.81	92.64	End Shut-In(1)
61	11.60	92.58	Open To Flow (2)
75	13.71	93.10	Shut-In(2)
75	1524.99	93.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud 100%	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50419

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.01.25 @ 19:01:00

Tool Information

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.80 inches	Volume: 45.59 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 45.75 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3297.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	19.00 ft			
Tool Length:	40.00 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			3277.00	
Shut In Tool	5.00			3282.00	
Hydraulic tool	5.00			3287.00	
Packer	5.00			3292.00	21.00 Bottom Of Top Packer
Packer	5.00			3297.00	
Stubb	1.00			3298.00	
Recorder	0.00	8789	Inside	3298.00	
Recorder	0.00	8289	Outside	3298.00	
Perforations	15.00			3313.00	
Bullnose	3.00			3316.00	19.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50419

DST#: 1

ATTN: Marc Dow ning

Test Start: 2014.01.25 @ 19:01:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
2.00	Mud 100%	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

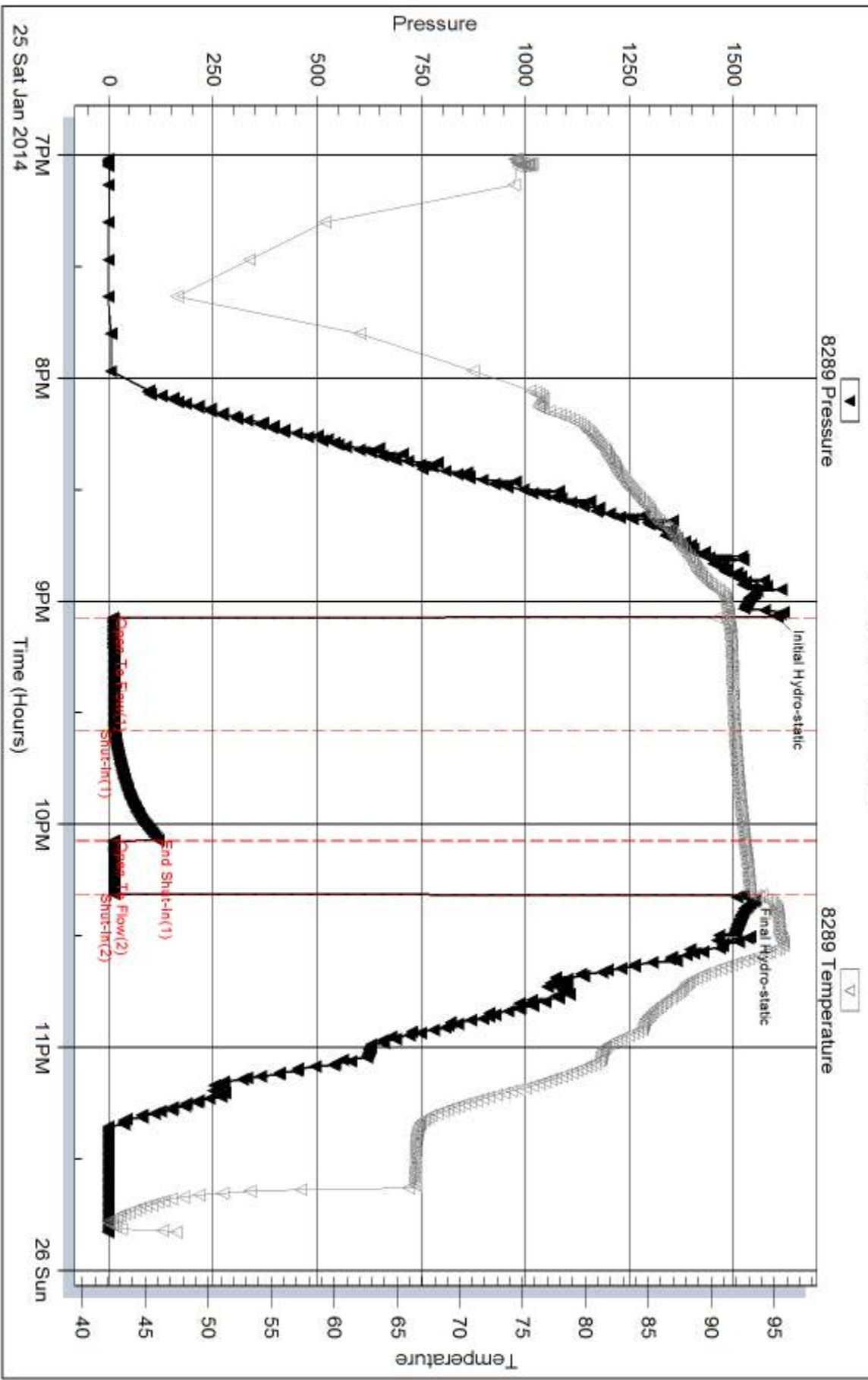
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



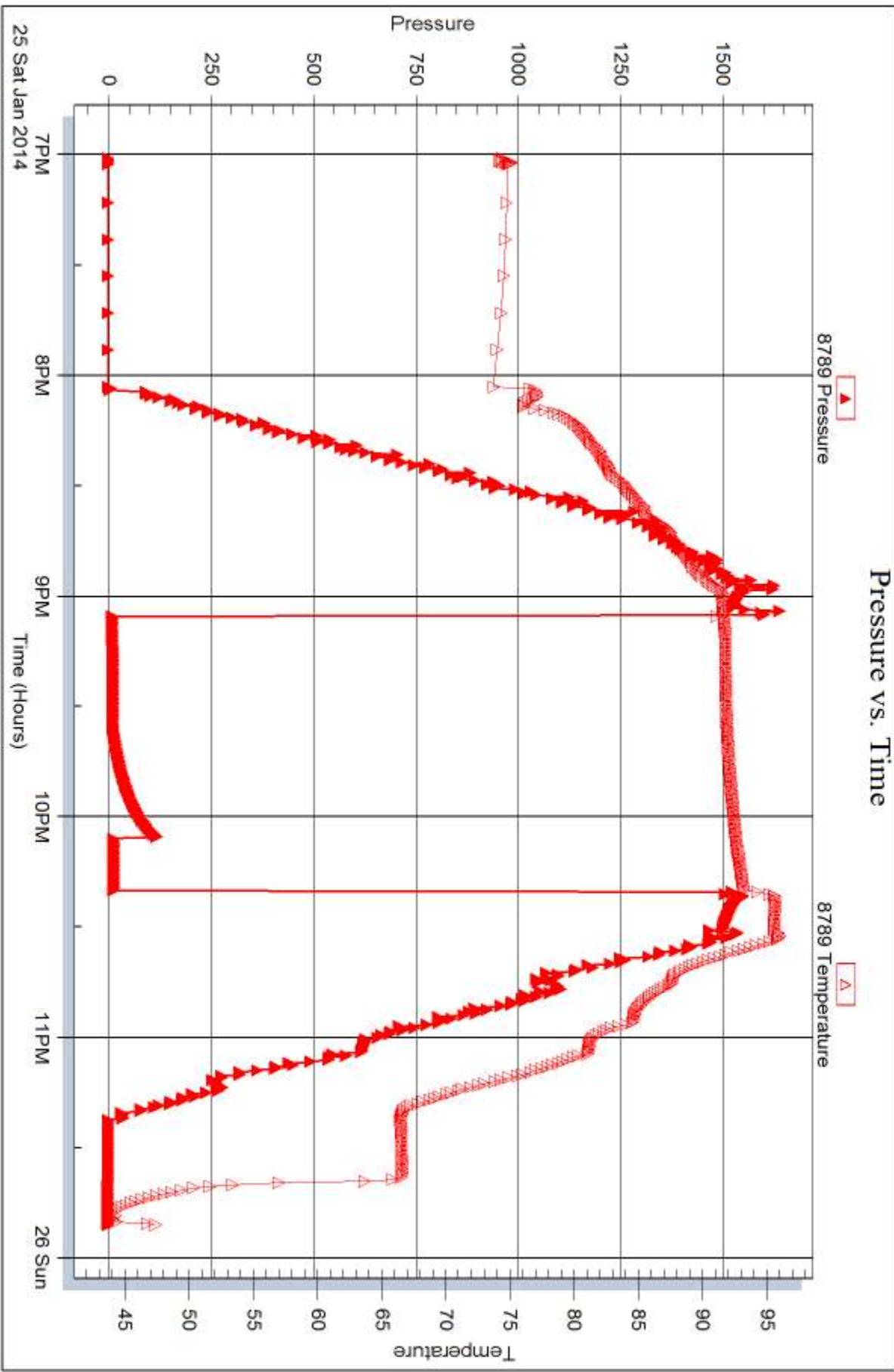
Serial #: 8789

Inside

Dow nrg-Nelson Oil Co Inc

Army #1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 50419

Printed: 2014.01.30 @ 11:00:33



DRILL STEM TEST REPORT

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

P.O. Box 1019
Hays KS 67601

ATTN: Marc Downing

Amy #1-30

30 14s 18w Ellis,KS

Start Date: 2014.01.27 @ 11:34:00

End Date: 2014.01.27 @ 19:09:00

Job Ticket #: 50420 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.30 @ 10:59:49



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50420

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.01.27 @ 11:34:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:52:15

Time Test Ended: 19:09:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3672.00 ft (KB) To 3722.00 ft (KB) (TVD)

Reference Elevations: 2066.00 ft (KB)

Total Depth: 3722.00 ft (KB) (TVD)

2059.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 84.65 psig @ 3682.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.27 End Date: 2014.01.27

Last Calib.: 2014.01.27

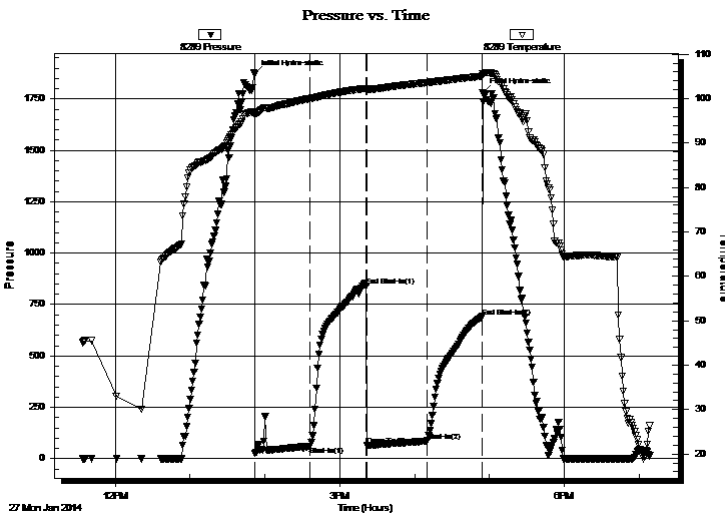
Start Time: 11:34:02 End Time: 19:09:00

Time On Btm: 2014.01.27 @ 13:52:00

Time Off Btm: 2014.01.27 @ 16:54:30

TEST COMMENT: 45-IFP- BOB in 22 min.
45-ISIP- Surface Blow in 2 min.
48-FFP- BOB in 47 min.
45-FSIP- Surface Blow in 3 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1871.21	97.10	Initial Hydro-static
1	24.43	96.37	Open To Flow (1)
45	60.56	100.05	Shut-In(1)
90	839.74	102.31	End Shut-In(1)
90	66.21	102.13	Open To Flow (2)
138	84.65	103.62	Shut-In(2)
183	690.94	105.06	End Shut-In(2)
183	1779.22	105.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
83.00	MCO 30%o 70%m	0.87
106.00	CO 100%	1.49

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50420

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.01.27 @ 11:34:00

Tool Information

Drill Pipe:	Length: 3626.00 ft	Diameter: 3.80 inches	Volume: 50.86 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 51.02 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3672.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	50.00 ft				
Tool Length:	71.00 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			3652.00	
Shut In Tool	5.00			3657.00	
Hydraulic tool	5.00			3662.00	
Packer	5.00			3667.00	21.00 Bottom Of Top Packer
Packer	5.00			3672.00	
Stubb	1.00			3673.00	
Perforations	8.00			3681.00	
Change Over Sub	1.00			3682.00	
Recorder	0.00	8789	Inside	3682.00	
Recorder	0.00	8289	Outside	3682.00	
Blank Spacing	31.00			3713.00	
Change Over Sub	1.00			3714.00	
Perforations	5.00			3719.00	
Bullnose	3.00			3722.00	50.00 Bottom Packers & Anchor

Total Tool Length: 71.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50420

DST#: 2

ATTN: Marc Dow ning

Test Start: 2014.01.27 @ 11:34:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.14 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
83.00	MCO 30%o 70%m	0.873
106.00	CO 100%	1.487

Total Length: 189.00 ft

Total Volume: 2.360 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

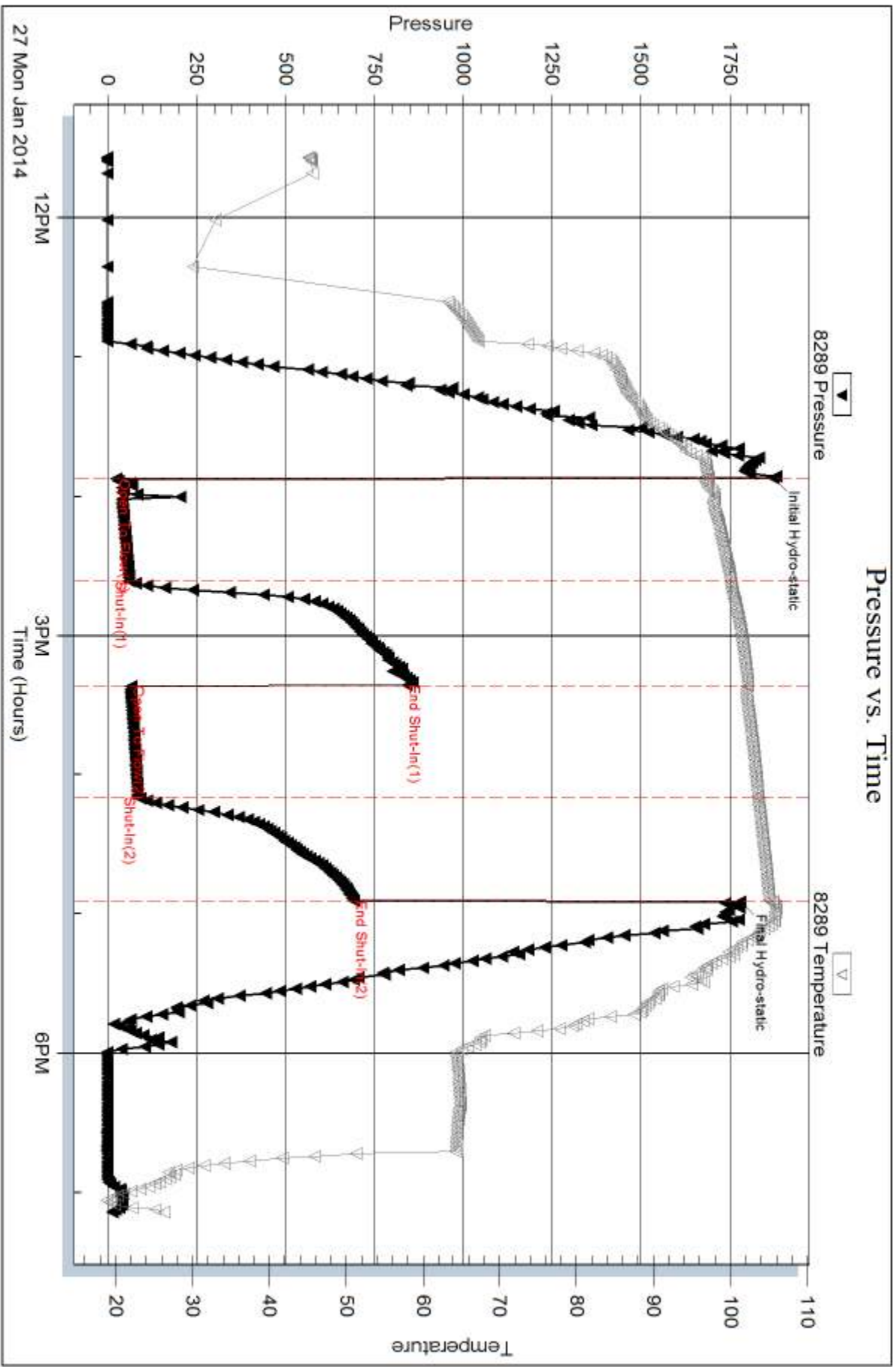
Recovery Comments:

Serial #: 8289

Outside Dow nting-Nelson Oil Co Inc

Army #1-30

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 50420

Printed: 2014.01.30 @ 10:59:52



DRILL STEM TEST REPORT

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

P.O. Box 1019
Hays KS 67601

ATTN: Marc Downing

Amy #1-30

30 14s 18w Ellis,KS

Start Date: 2014.01.28 @ 08:57:00

End Date: 2014.01.28 @ 16:16:00

Job Ticket #: 50421 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.30 @ 10:58:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50421

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.01.28 @ 08:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:11:45

Time Test Ended: 16:16:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 54

Interval: 3673.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2066.00 ft (KB)

Total Depth: 3812.00 ft (KB) (TVD)

2059.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8289 Outside

Press@RunDepth: 73.16 psig @ 3683.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.28 End Date: 2014.01.28

Last Calib.: 2014.01.28

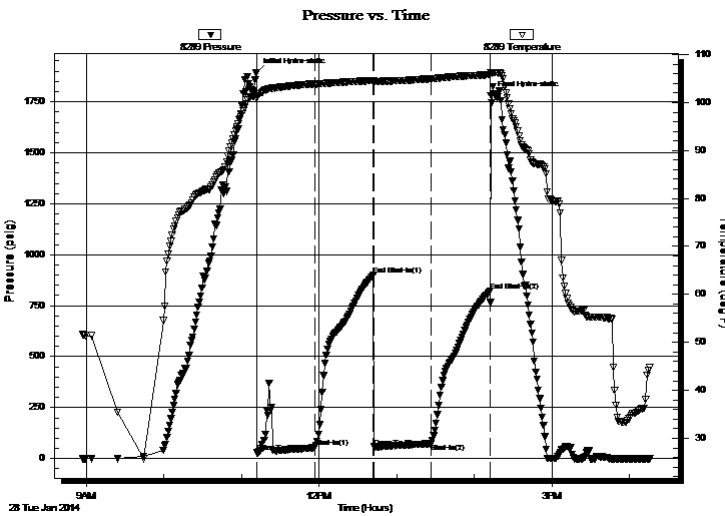
Start Time: 08:57:02 End Time: 16:15:45

Time On Btm: 2014.01.28 @ 11:11:30

Time Off Btm: 2014.01.28 @ 14:12:30

TEST COMMENT: 45-IFP- BOB in 32 min.
45-ISIP- Surface Blow in 1 1/2 min.
45-FFP- Surface Blow Building to 8 1/4"
45-FSIP- Surface Blow in 3 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1894.17	102.00	Initial Hydro-static
1	28.86	100.88	Open To Flow (1)
45	53.82	103.82	Shut-In(1)
91	899.82	104.59	End Shut-In(1)
91	56.83	104.40	Open To Flow (2)
135	73.16	104.95	Shut-In(2)
181	821.35	105.80	End Shut-In(2)
181	1778.91	106.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
96.00	OCM 35% o 65% m	1.06
50.00	CO 100%	0.70

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50421

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.01.28 @ 08:57:00

Tool Information

Drill Pipe:	Length: 3625.00 ft	Diameter: 3.80 inches	Volume: 50.85 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: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 51.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3673.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	3730.00 ft				
Interval betw een Packers:	57.00 ft				
Tool Length:	159.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3653.00	
Shut In Tool	5.00			3658.00	
Hydraulic tool	5.00			3663.00	
Packer	5.00			3668.00	21.00 Bottom Of Top Packer
Packer	5.00			3673.00	
Stubb	1.00			3674.00	
Perforations	8.00			3682.00	
Change Over Sub	1.00			3683.00	
Recorder	0.00	8789	Inside	3683.00	
Recorder	0.00	8289	Outside	3683.00	
Blank Spacing	32.00			3715.00	
Change Over Sub	1.00			3716.00	
Perforations	10.00			3726.00	
Blank Off Sub	1.00			3727.00	
Blank Spacing	3.00			3730.00	57.00 Tool Interval
Packer	1.00			3731.00	
Perforations	12.00			3743.00	
Change Over Sub	1.00			3744.00	
Recorder	0.00	6668	Below	3744.00	
Blank Spacing	63.00			3807.00	
Change Over Sub	1.00			3808.00	
Bullnose	3.00			3811.00	81.00 Bottom Packers & Anchor

Total Tool Length: 159.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

30 14s 18w Ellis,KS

P.O. Box 1019
Hays KS 67601

Amy #1-30

Job Ticket: 50421

DST#: 3

ATTN: Marc Dow ning

Test Start: 2014.01.28 @ 08:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 3.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
96.00	OCM 35%o 65%m	1.055
50.00	CO 100%	0.701

Total Length: 146.00 ft

Total Volume: 1.756 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

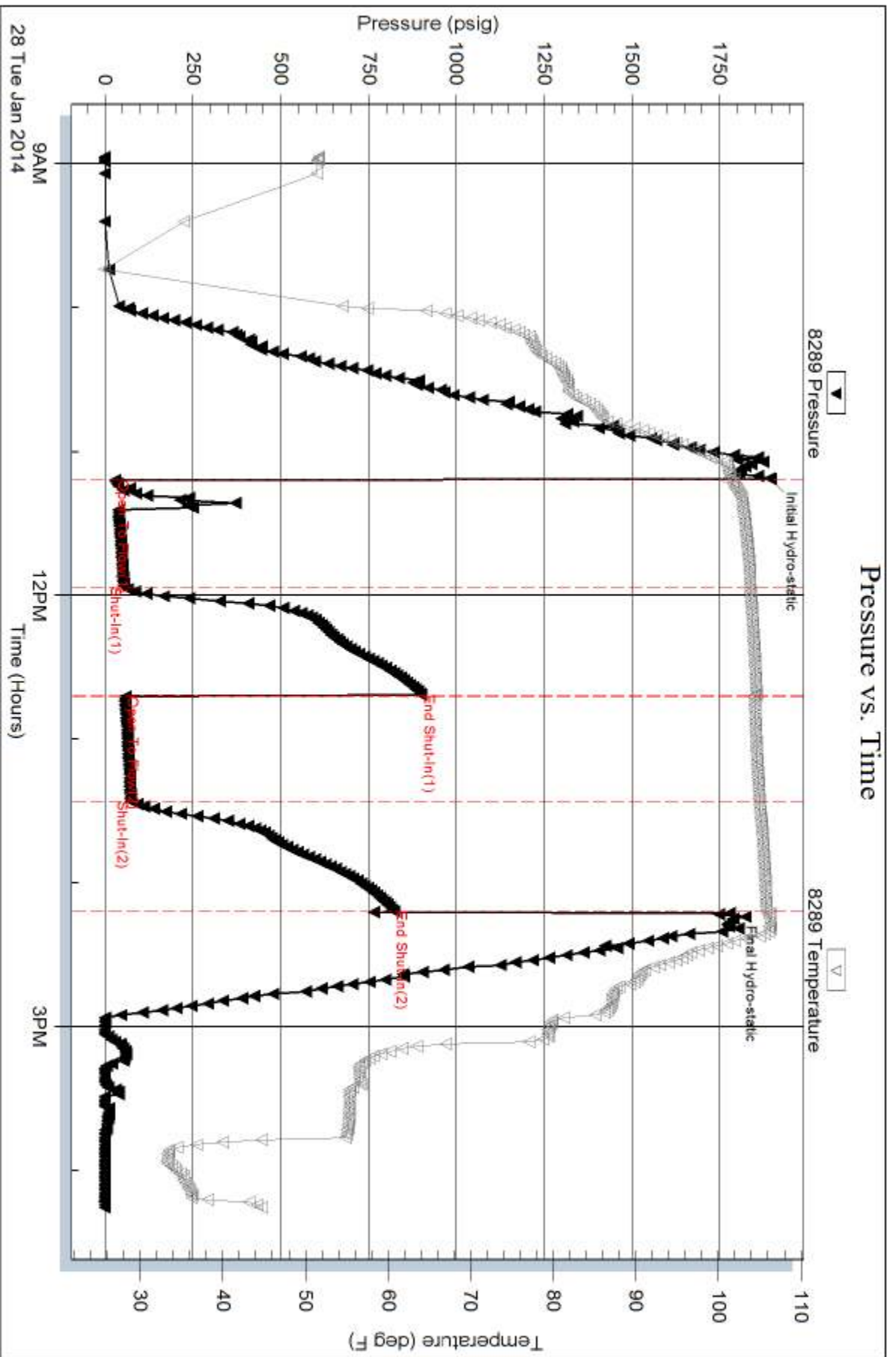
Recovery Comments:

Serial #: 8289

Outside Dow nting-Nelson Oil Co Inc

Army #1-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 50421

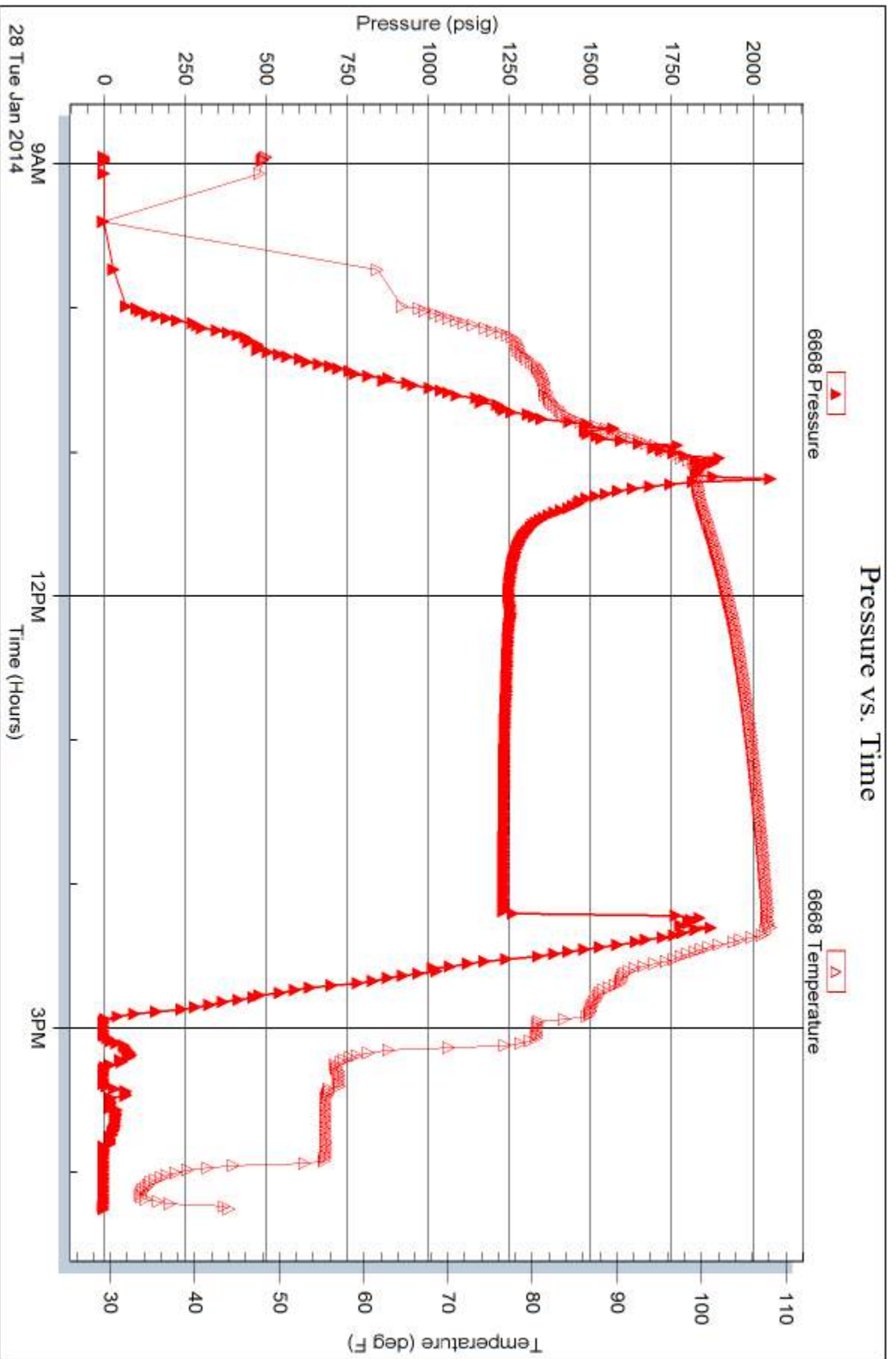
Printed: 2014.01.30 @ 10:58:03

Serial #: 6668

Below (Stratton)ng-Nelson Oil Co Inc

Army #1-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 50421

Printed: 2014.01.30 @ 10:58:03

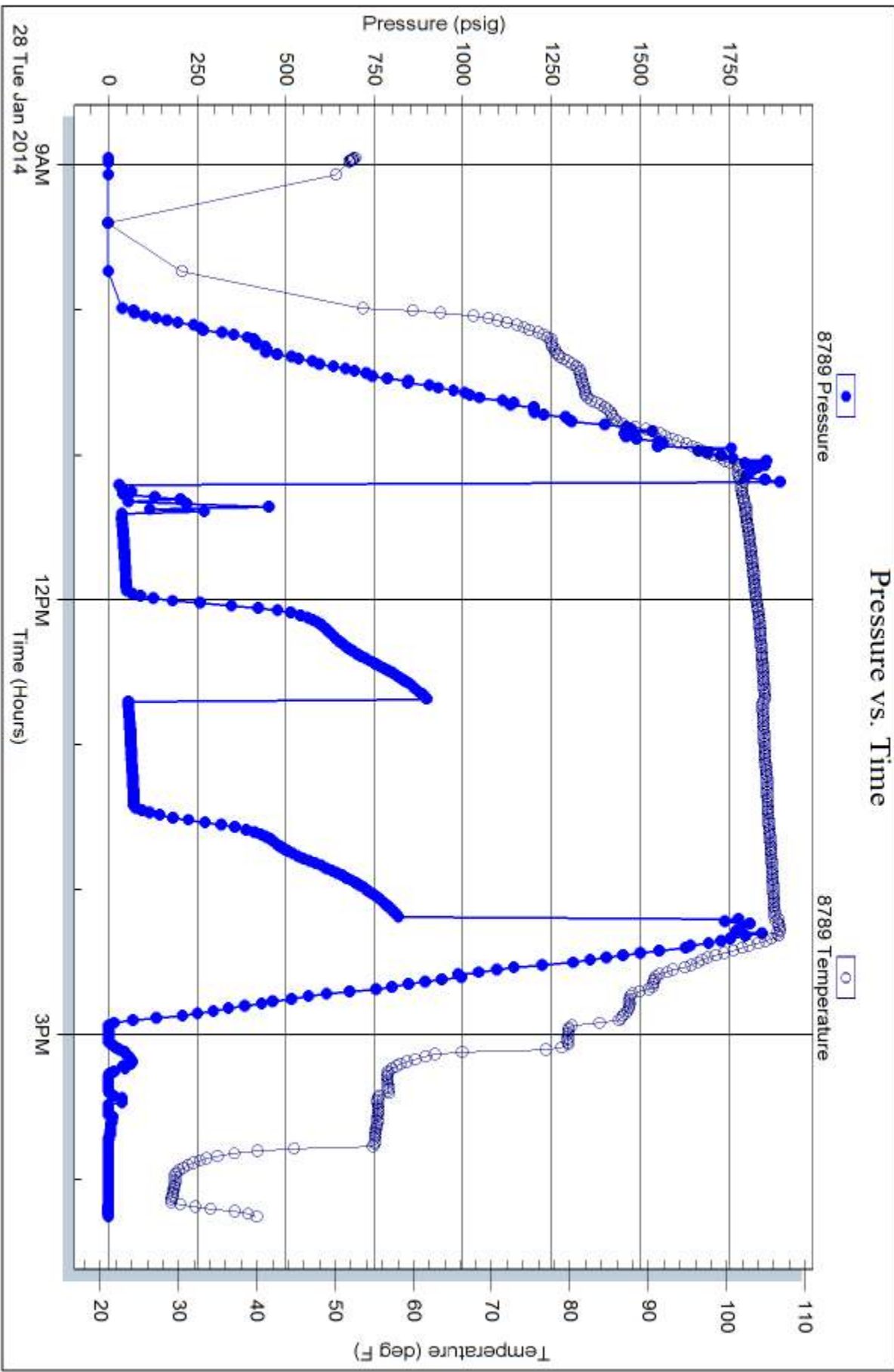
Serial #: 8789

Inside

Dow n/ring-Nelson Oil Co Inc

Army #1-30

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 50421

Printed: 2014.01.30 @ 10:58:04



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50419

4/10

Well Name & No. Army 1-30 Test No. 1 Date 1-25-14
 Company Downing-Nelson Oil Co. Inc. Elevation 2066 KB 2059 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 30 Twp. 14^S Rge. 18^W Co. Ellis State KS

Interval Tested 3297-3316 Zone Tested Plattsouth
 Anchor Length 19 Drill Pipe Run 3250 Mud Wt. 8.5
 Top Packer Depth 3292 Drill Collars Run 32 Vis 61
 Bottom Packer Depth 3297 Wt. Pipe Run 0 WL 8.0
 Total Depth 3316 Chlorides 3500 ppm System LCM 2

Blow Description IIFP- Weak 1/8 in Blow
ISIP- No Blow
FFP- Weak Surface Blow
FSIP- pulled

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</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 2 BHT 94 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1604 Test 1150 T-On Location 04:38 PM
 (B) First Initial Flow 10 Jars _____ T-Started 07:01 PM
 (C) First Final Flow 12 Safety Joint _____ T-Open 21:05
 (D) Initial Shut-In 118 Circ Sub _____ T-Pulled 22:20
 (E) Second Initial Flow 11 Hourly Standby _____ T-Out 23:50
 (F) Second Final Flow _____ Mileage 18 RT 27.90 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 1524 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In pulled

Sub Total 1177.90

Sub Total 1177.90

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50420

Well Name & No. Amy 1-30 Test No. 2 Date 1-27-14
 Company Downing-Nelson Oil Co. Inc. Elevation 2066 KB 2059 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 30 Twp. 14^S Rge. 18^W Co. Ellis State KS

Interval Tested 3672-3722 Zone Tested Arbuckle
 Anchor Length 50 Drill Pipe Run 3626 Mud Wt. 8.9
 Top Packer Depth 3667 Drill Collars Run 32 Vis 49
 Bottom Packer Depth 3672 Wt. Pipe Run 0 WL 9.2
 Total Depth 3722 Chlorides 7000 ppm System LCM 1.5

Blow Description IFP- BOB in 22min.
ISIP- Surface Blow in 2min.
FFP- BOB in 47min
FSIP- Surface Blow in 3min

Rec	Feet of	%gas	%oil	%water	%mud
<u>83</u>	<u>mco</u>	<u>30</u>		<u>70</u>	
<u>106</u>	<u>CO</u>	<u>100</u>			

Rec Total 189 BHT 105 Gravity 30 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1871</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:50</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:34</u>
(C) First Final Flow <u>60</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>13:52</u>
(D) Initial Shut-In <u>839</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>16:55</u>
(E) Second Initial Flow <u>66</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:09</u>
(F) Second Final Flow <u>84</u>	<input checked="" type="checkbox"/> Mileage <u>27.90</u>	Comments <u>Check Stand By?</u>
(G) Final Shut-In <u>690</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1779</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____

Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>48</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1177.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1177.90</u>	

Approved By _____ Our Representative

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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 50421

Well Name & No. Amy 1-30 Test No. 3 Date 1-28-14
 Company Downing-Nelson Oil Co Inc Elevation 2066 KB 2059 ct
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 30 Twp. 14⁵ Rge. 18^w Co. Ellis State KS

Interval Tested 3673-3730 Zone Tested Arbuckle
 Anchor Length 57 Drill Pipe Run 3625 Mud Wt. 8.9
 Top Packer Depth 3668 Drill Collars Run 32 Vis 55
 Bottom Packer Depth 3673 Wt. Pipe Run 0 WL 8.8
 Total Depth 3730 Chlorides 5000 ppm System LCM 3

Blow Description IFP- BOB in 32min
ISIP- Surface Blow in 1 1/2min
FFP- Surface Blow Building to 8 1/4in.
FSIP- Surface Blow in 3min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>96</u>	<u>OCM</u>	<u>35</u>		<u>65</u>	
<u>50</u>	<u>CO</u>	<u>100</u>			

Rec Total 146 BHT 106 Gravity 30 API RW @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1894</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>08:22</u>
(B) First Initial Flow <u>28</u>	<input type="checkbox"/> Jars _____	T-Started <u>08:57</u>
(C) First Final Flow <u>53</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>11:12</u>
(D) Initial Shut-In <u>899</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>14:12</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>16:16</u>
(F) Second Final Flow <u>73</u>	<input checked="" type="checkbox"/> Mileage <u>27.90</u>	Comments _____
(G) Final Shut-In <u>821</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1778</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1777.90</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1777.90</u>	

Approved By _____ Our Representative [Signature]

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