



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Al Downing

Diana Pfeifer #1-14

14-13s-19w Ellis,KS

Start Date: 2013.04.06 @ 07:30:20

End Date: 2013.04.06 @ 13:05:14

Job Ticket #: 52557 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 09:28:17



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

ATTN: Al Dow ning

Job Ticket: 52557

DST#: 1

Test Start: 2013.04.06 @ 07:30:20

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:34:00

Time Test Ended: 13:05:14

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schw ager

Unit No: 42

Interval: 3404.00 ft (KB) To 3450.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3450.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @RunDepth: 24.99 psig @ 3414.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.06

End Date:

2013.04.06

Last Calib.:

2013.04.06

Start Time:

07:30:20

End Time:

13:05:14

Time On Btm:

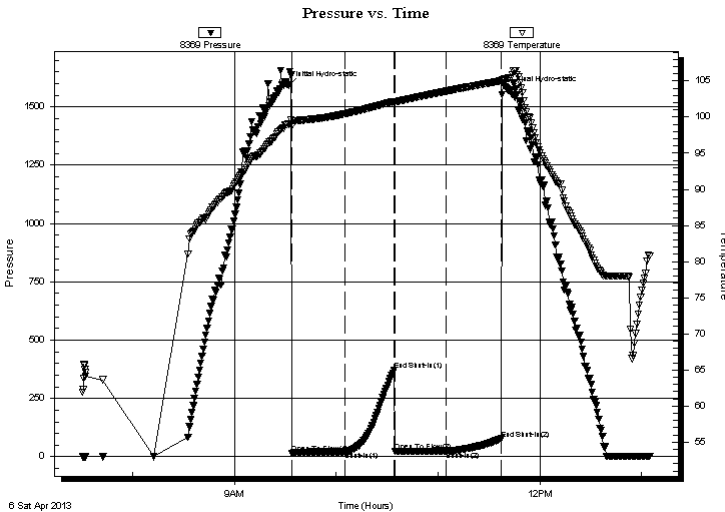
2013.04.06 @ 09:31:45

Time Off Btm:

2013.04.06 @ 11:42:00

TEST COMMENT: 30-IFP-w k surface bl thru-out
30-ISIP-no bl
30-FFP-w k surface bl thru-out
30-FSIP-no bl

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1591.30	99.02	Initial Hydro-static
3	15.60	98.83	Open To Flow (1)
33	22.12	100.45	Shut-In(1)
63	371.24	102.19	End Shut-In(1)
63	23.05	102.11	Open To Flow (2)
93	24.99	103.59	Shut-In(2)
126	76.74	105.02	End Shut-In(2)
131	1570.68	105.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w /show of oil	0.10

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

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52557

DST#: 1

ATTN: Al Dow ning

Test Start: 2013.04.06 @ 07:30:20

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 47.28 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3404.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	46.00 ft				
Tool Length:	67.00 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			3384.00	
Shut In Tool	5.00			3389.00	
Hydraulic tool	5.00			3394.00	
Packer	5.00			3399.00	21.00 Bottom Of Top Packer
Packer	5.00			3404.00	
Stubb	1.00			3405.00	
Perforations	9.00			3414.00	
Recorder	0.00	8369	Inside	3414.00	
Recorder	0.00	8700	Outside	3414.00	
Blank Spacing	33.00			3447.00	
Bullnose	3.00			3450.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52557

DST#: 1

ATTN: Al Dow ning

Test Start: 2013.04.06 @ 07:30:20

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.93 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud w/show of oil	0.098

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

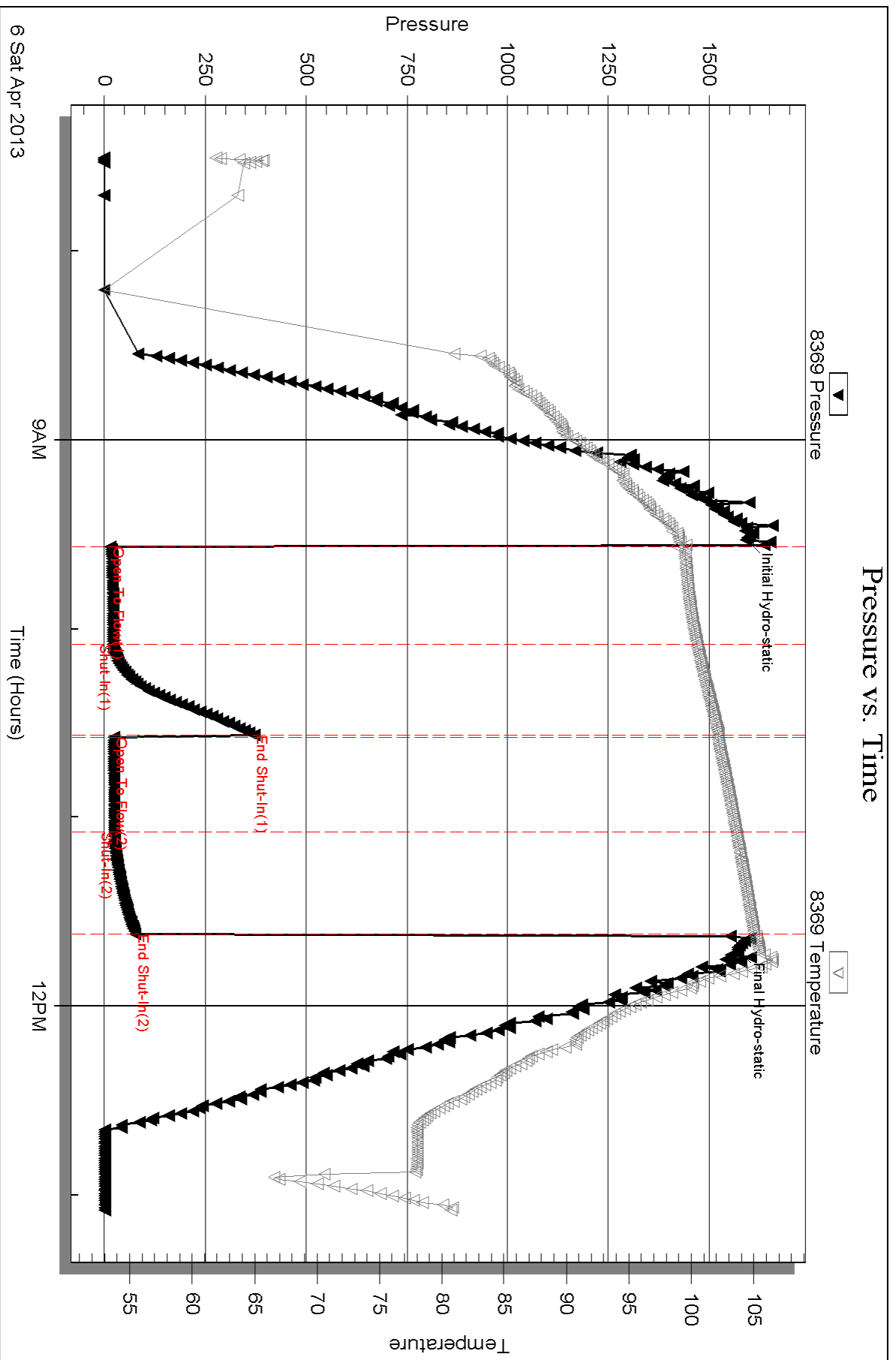
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

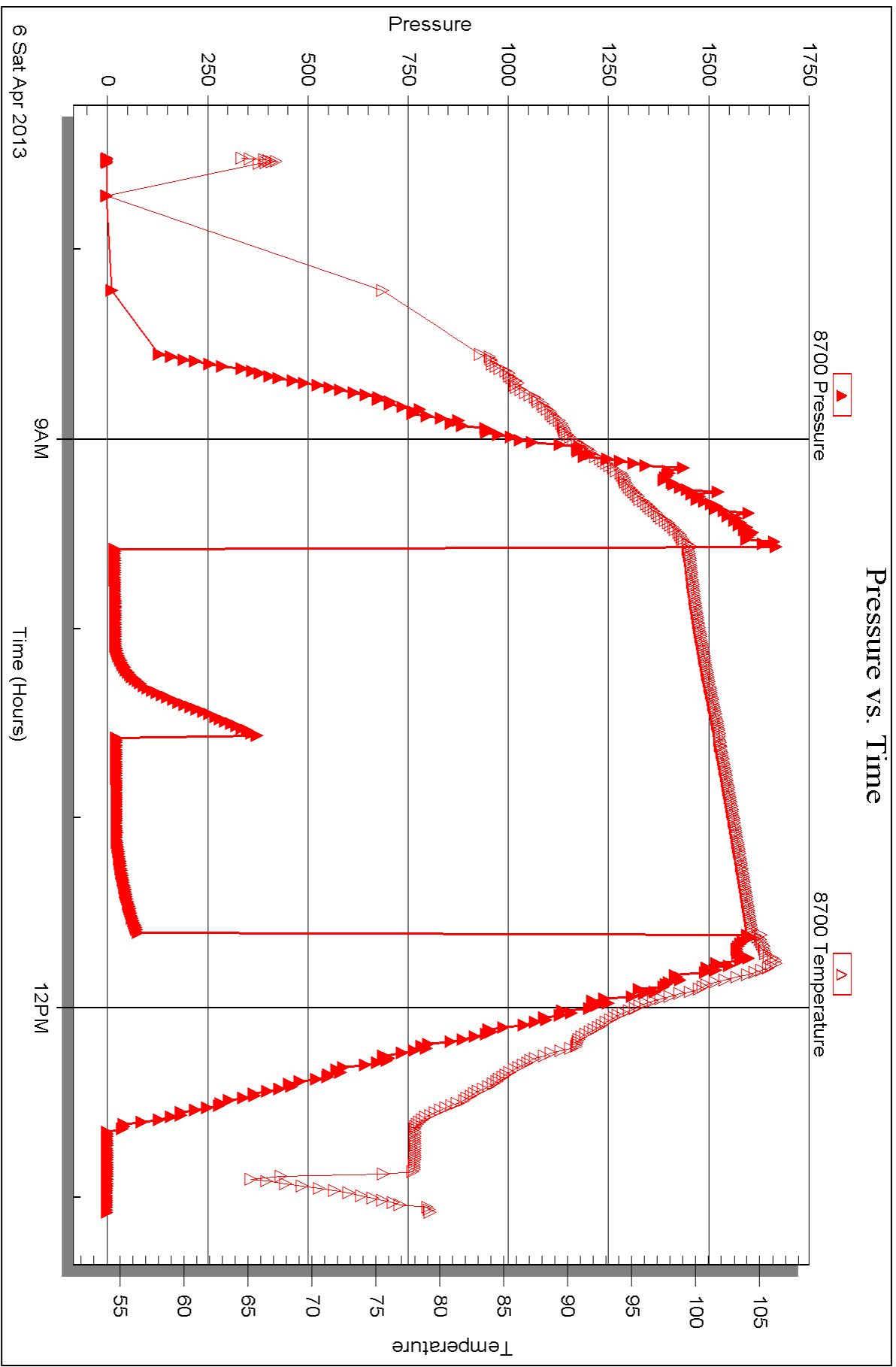


Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

Dana Pfeifer #1-14

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Al Downing

Diana Pfeifer #1-14

14-13s-19w Ellis,KS

Start Date: 2013.04.07 @ 01:45:05

End Date: 2013.04.07 @ 06:33:14

Job Ticket #: 52558 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 09:26:28



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52558

DST#: 2

ATTN: Al Dow ning

Test Start: 2013.04.07 @ 01:45:05

GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:42:45

Time Test Ended: 06:33:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: 3502.00 ft (KB) To 3582.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3482.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369

Inside

Press @RunDepth: 21.45 psig @ 3514.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.07

End Date:

2013.04.07

Last Calib.:

2013.04.07

Start Time:

01:45:05

End Time:

06:33:14

Time On Btm:

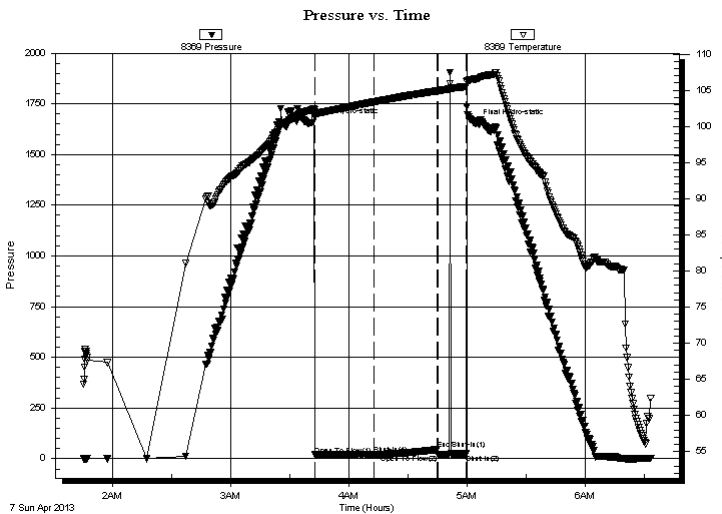
2013.04.07 @ 03:40:00

Time Off Btm:

2013.04.07 @ 05:04:30

TEST COMMENT: 30-IFP-w k surface bl thru-out
30-ISIP-no bl
15-FFP-no bl flushed tool
pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.96	102.19	Initial Hydro-static
3	18.69	101.39	Open To Flow (1)
33	21.45	103.39	Shut-In(1)
65	45.16	104.92	End Shut-In(1)
65	21.42	104.92	Open To Flow (2)
80	23.94	105.53	Shut-In(2)
85	1652.17	106.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud w /show of oil	0.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52558

DST#: 2

ATTN: Al Dow ning

Test Start: 2013.04.07 @ 01:45:05

Tool Information

Drill Pipe:	Length: 3482.00 ft	Diameter: 3.80 inches	Volume: 48.84 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.99 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3502.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	80.00 ft			
Tool Length:	101.00 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			3482.00	
Shut In Tool	5.00			3487.00	
Hydraulic tool	5.00			3492.00	
Packer	5.00			3497.00	21.00 Bottom Of Top Packer
Packer	5.00			3502.00	
Stubb	1.00			3503.00	
Perforations	11.00			3514.00	
Recorder	0.00	8369	Inside	3514.00	
Recorder	0.00	8700	Outside	3514.00	
Blank Spacing	65.00			3579.00	
Bullnose	3.00			3582.00	80.00 Bottom Packers & Anchor

Total Tool Length: 101.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52558

DST#: 2

ATTN: Al Dow ning

Test Start: 2013.04.07 @ 01:45:05

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: 63.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.94 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud w/show of oil	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

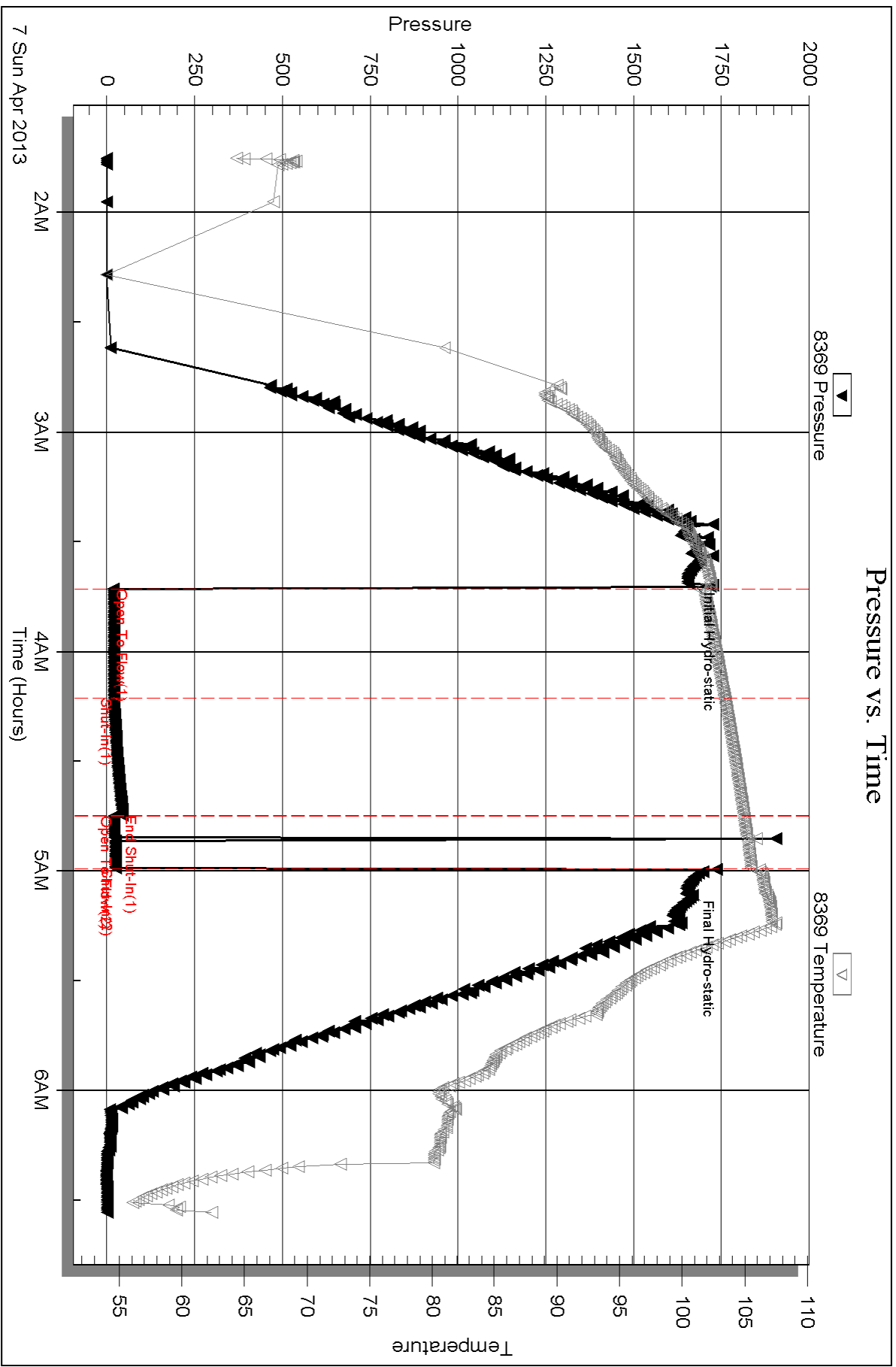
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

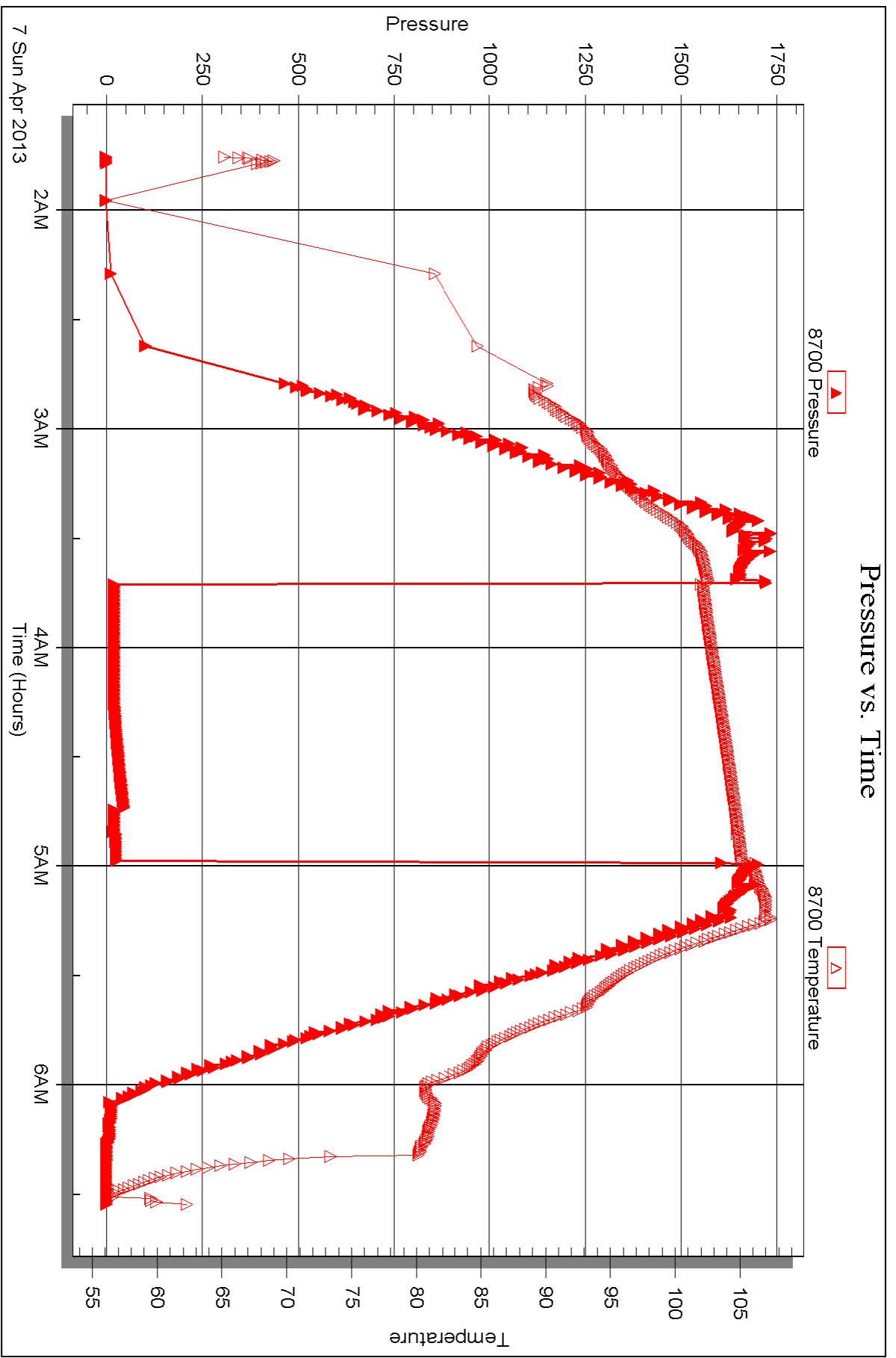


Serial #: 8700

Outside Dow nung-Nelson Oil Co Inc

Diana Pfeifer #1-14

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52558

Printed: 2013.04.12 @ 09:26:31



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Al Downing

Diana Pfeifer #1-14

14-13s-19w Ellis,KS

Start Date: 2013.04.08 @ 04:55:39

End Date: 2013.04.08 @ 09:13:03

Job Ticket #: 52559 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.12 @ 09:27:16



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

ATTN: Al Dow ning

Job Ticket: 52559

DST#: 3

Test Start: 2013.04.08 @ 04:55:39

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:19

Time Test Ended: 09:13:03

Test Type: Conventional Straddle (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: 3707.00 ft (KB) To 3727.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3793.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8369 Inside

Press @ RunDepth: 16.53 psig @ 3708.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08

End Date:

2013.04.08

Last Calib.:

2013.04.08

Start Time: 04:55:39

End Time:

09:13:03

Time On Btm:

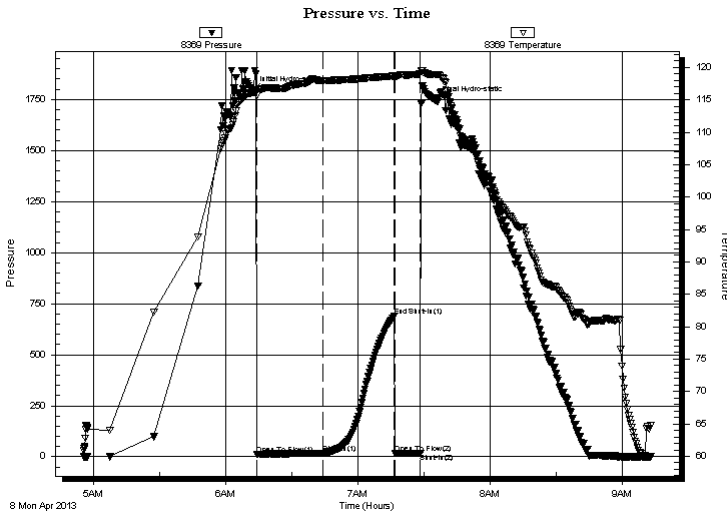
2013.04.08 @ 06:12:19

Time Off Btm:

2013.04.08 @ 07:35:04

TEST COMMENT: 30-IFP-w k bl 1/4" bl
30-ISIP-no bl
15-FFP-no bl
pulled tool

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1791.98	116.07	Initial Hydro-static
2	11.16	115.69	Open To Flow (1)
32	16.53	117.93	Shut-In(1)
64	687.34	118.66	End Shut-In(1)
65	17.96	118.47	Open To Flow (2)
76	18.46	119.02	Shut-In(2)
83	1746.54	118.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	SOCM 1%O99%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52559

DST#: 3

ATTN: Al Dow ning

Test Start: 2013.04.08 @ 04:55:39

Tool Information

Drill Pipe:	Length: 3675.00 ft	Diameter: 3.80 inches	Volume: 51.55 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.70 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	3707.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3727.00 ft			
Interval betw een Packers:	20.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

Tool Description

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

Change Over Sub	1.00			3687.00		
Shut In Tool	5.00			3692.00		
Hydraulic tool	5.00			3697.00		
Packer	5.00			3702.00	21.00	Bottom Of Top Packer
Packer	5.00			3707.00		
Stubb	1.00			3708.00		
Recorder	0.00	8369	Inside	3708.00		
Recorder	0.00	8700	Outside	3708.00		
Perforations	15.00			3723.00		
Blank Off Sub	1.00			3724.00		
Blank Spacing	3.00			3727.00	20.00	Tool Interval
Packer	5.00			3732.00		
Stubb	1.00			3733.00		
Perforations	1.00			3734.00		
Recorder	0.00	8374	Below	3734.00		
Blank Spacing	63.00			3797.00	70.00	Bottom Packers & Anchor
Total Tool Length:	111.00					



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

14-13s-19w Ellis,KS

PO Box 1019
Hays KS 67601

Diana Pfeifer #1-14

Job Ticket: 52559

DST#: 3

ATTN: Al Dow ning

Test Start: 2013.04.08 @ 04:55:39

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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	SOCM 1%O99%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

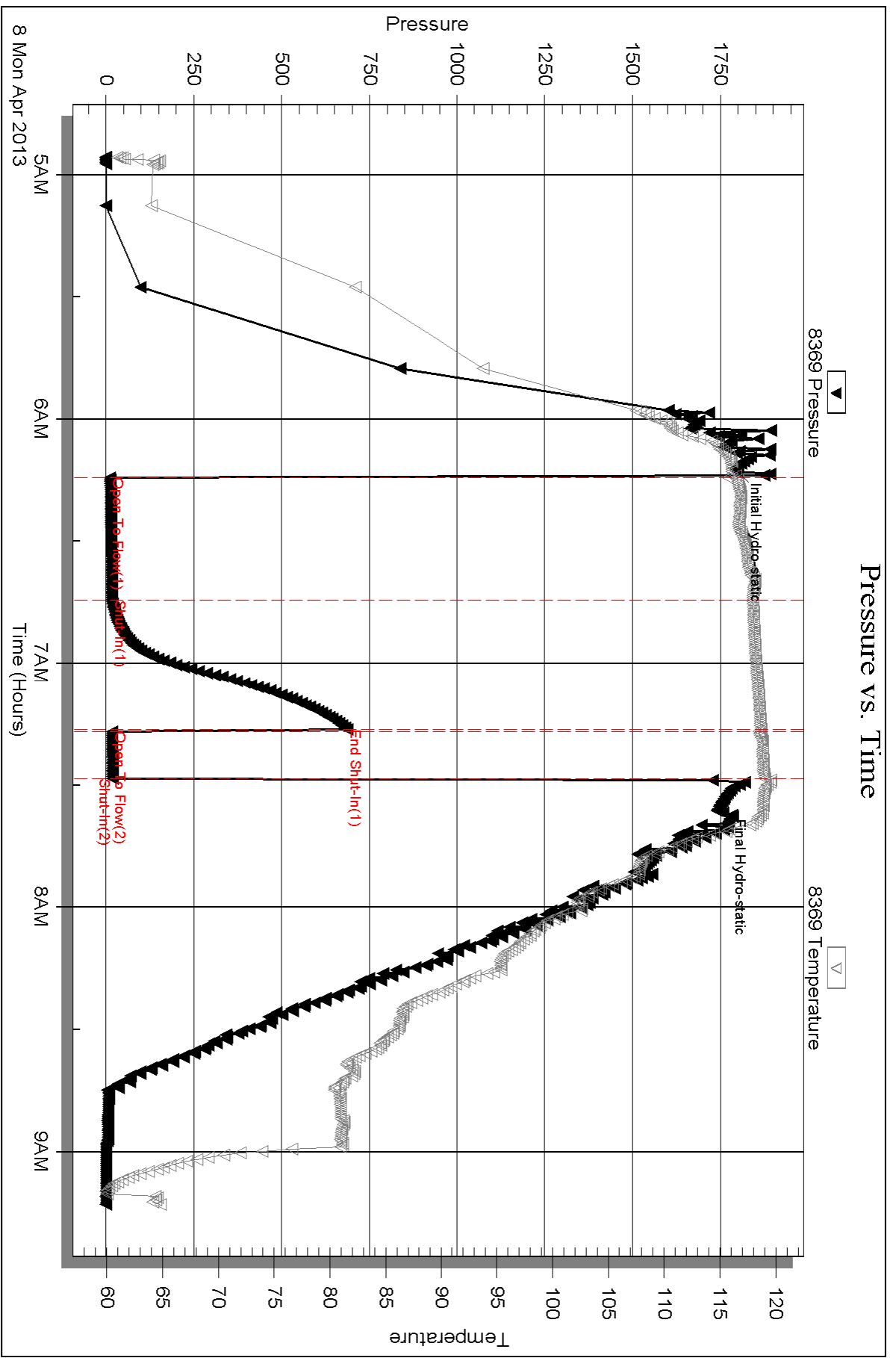
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

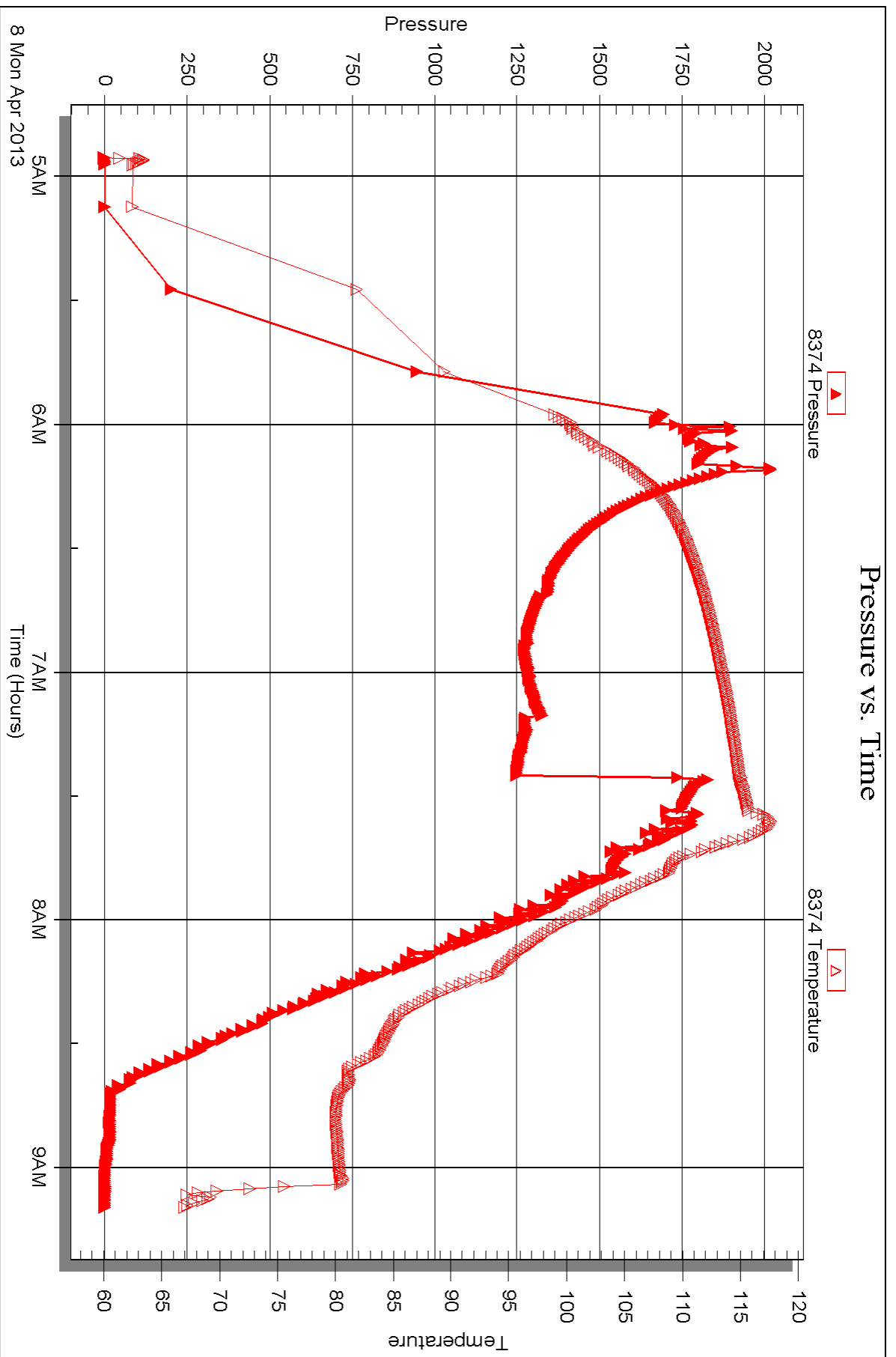


Serial #: 8374

Below (Stratton)ng-Nelson Oil Co Inc

Diana Feifer #1-14

DST Test Number: 3

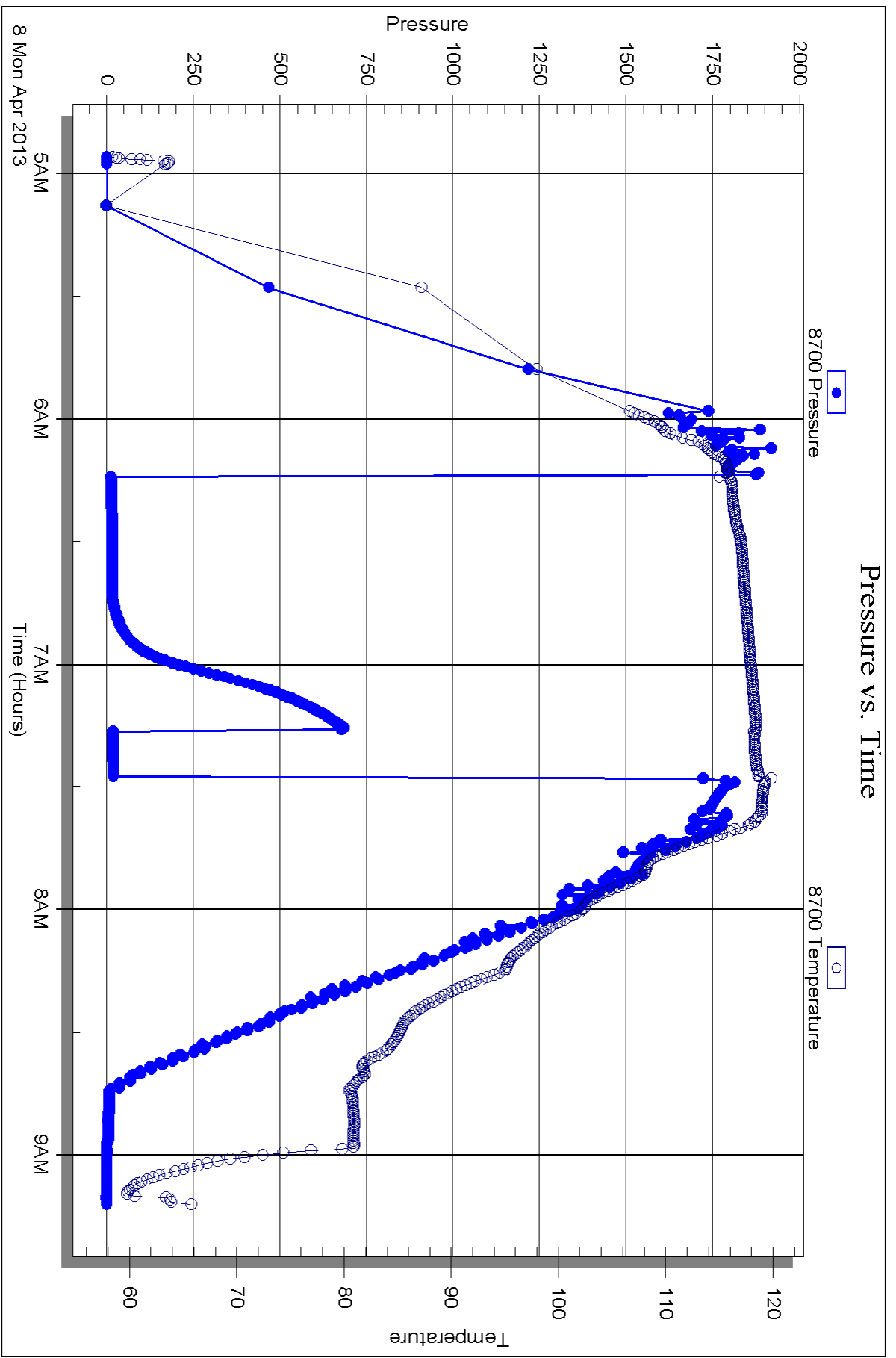


Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

Dana Freiler #1-14

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52557

Well Name & No. DIANA Pfeifer #1-14 Test No. 1 Date 4-6-13
 Company Downing-Nelson Oil Co Inc Elevation 2085 KB 2077 GL
 Address Po Box 1019 Hays, Ks 67601
 Co. Rep / Geo. AL Downing Rig Discovery rig 3
 Location: Sec. 14 Twp. 13^s Rge. 19^w Co. ELLIS State Ks

Interval Tested 3404-3450 Zone Tested LKC C-0
 Anchor Length 46 Drill Pipe Run 3360 Mud Wt. 8.8
 Top Packer Depth 3399 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3404 Wt. Pipe Run - WL 8
 Total Depth 3450 Chlorides 2000 ppm System LCM 1 1/2 #

Blow Description IFP - WEAK SURFACE BLOW THRU-OUT
ISTP - NO BLOW
FFP - WEAK SURFACE BLOW THRU-OUT
FSTP - NO BLOW

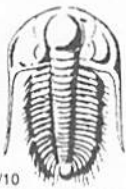
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Mud w/show of oil</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 20 BHT 105 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1591 Test 1150 T-On Location 0620
 (B) First Initial Flow 15 Jars T-Started 0730
 (C) First Final Flow 22 Safety Joint T-Open 0935
 (D) Initial Shut-In 371 Circ Sub T-Pulled 1135
 (E) Second Initial Flow 23 Hourly Standby T-Out 1305
 (F) Second Final Flow 24 Mileage 20 RT 31 Comments _____
 (G) Final Shut-In 76 Sampler _____
 (H) Final Hydrostatic 1570 Straddle _____
 Shale Packer _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____

Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 30 Accessibility _____
 Sub Total 1181

Approved By _____ Our Representative Ray Schwager *Thank you*
 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. 52558

Well Name & No. Diana Pfeiffer #1-14 Test No. 2 Date 4-7-13
 Company Downing-Nelson Oil Co Inc Elevation 2085 KB 2077 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. AL Downing Rig Discovery rig 3
 Location: Sec. 14 Twp. 13^s Rge. 19^w Co. ELLIS State K

Interval Tested 3502-3582 Zone Tested LKC H-5
 Anchor Length 80 Drill Pipe Run 3482 Mud Wt. 8.8
 Top Packer Depth 3497 Drill Collars Run 30 Vis 63
 Bottom Packer Depth 3502 Wt. Pipe Run — WL 8
 Total Depth 3582 Chlorides 2000 ppm System LCM 1/2#

Blow Description IFP - WEAK SURFACE BLOW THRU-OUT
ISIP - NO BLOW
FFP - NO BLOW, FLUSHED TOOL, SURGED
PULLED TOOL

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud w/shallow loc</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

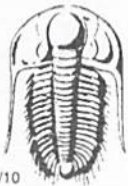
Rec Total 10 BHT 105 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1655 Test 1150 T-On Location 0115
 (B) First Initial Flow 18 Jars — T-Started 0145
 (C) First Final Flow 21 Safety Joint — T-Open 0345
 (D) Initial Shut-In 45 Circ Sub — T-Pulled 0500
 (E) Second Initial Flow 21 Hourly Standby — T-Out 0633
 (F) Second Final Flow 23 Mileage 20RT 31 Comments —
 (G) Final Shut-In — Sampler —
 (H) Final Hydrostatic 1652 Straddle —
 Shale Packer —
 Ruined Shale Packer —
 Ruined Packer —

Initial Open 30 Extra Packer —
 Initial Shut-In 30 Extra Recorder —
 Final Flow 15 Day Standby —
 Final Shut-In — Accessibility —
 Sub Total 1181

Approved By _____ Our Representative Ray Schwager *Thank you*

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. 52559

Well Name & No. DIANA Pfeifer #1-14 Test No. 3 Date 4-8-13
 Company Downing-Nelson Oil Co Inc Elevation 2085 KB 2077 GL
 Address PO Box 1019 Hays, Ko 67601
 Co. Rep / Geo. AL Downing Rig Discovery rig 3
 Location: Sec. 14 Twp. 13^s Rge. 19^w Co. Ellis State Ko

Interval Tested 3707-3727 Zone Tested Arbuckle
 Anchor Length 20 Drill Pipe Run 3675 Mud Wt. 9
 Top Packer Depth 3707-3702 Drill Collars Run 30 Vis 62
 Bottom Packer Depth 3727 Wt. Pipe Run - WL 8
 Total Depth 3793 Chlorides 6000 ppm System LCM 1 1/2 #
 Blow Description IIFP - Weak Blow 1/4" Blow
ISIP - NO Blow
FFP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>50cm</u>		<u>1</u>		<u>99</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total _____ BHT 1 Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic <u>1791</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0430</u>
(B) First Initial Flow <u>11</u>	<input type="checkbox"/> Jars _____	T-Started <u>0455</u>
(C) First Final Flow <u>16</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>0615</u>
(D) Initial Shut-In <u>687</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0730</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0913</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>20 RT</u> 31	Comments _____
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1746</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In _____	<input type="checkbox"/> Day Standby _____	Total <u>1781</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1781</u>	

Approved By _____ Our Representative RAY Schwager *Thank you*

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.