



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Ron Nelson

### **Kramer Unit #2-24**

#### **24-5s-37w Cheyenne KS**

Start Date: 2014.07.27 @ 06:55:00

End Date: 2014.07.27 @ 13:40:15

Job Ticket #: 56949                      DST #: 1

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.02 @ 14:08:04

Downing - Nelson Oil Co., Inc.  
24-5s-37w Cheyenne KS  
Kramer Unit #2-24  
DST # 1  
LKC "I" - "J"  
2014.07.27



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56949

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 06:55:00

## GENERAL INFORMATION:

Formation: **LKC "I - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:50:30

Time Test Ended: 13:40:15

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 57

**Interval: 4361.00 ft (KB) To 4405.00 ft (KB) (TVD)**

Reference Elevations: 3289.00 ft (KB)

Total Depth: 4405.00 ft (KB) (TVD)

3275.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 62.31 psig @ 4362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.27

End Date:

2014.07.27

Last Calib.:

2014.07.27

Start Time:

06:55:05

End Time:

13:40:14

Time On Btm:

2014.07.27 @ 08:50:15

Time Off Btm:

2014.07.27 @ 11:53:30

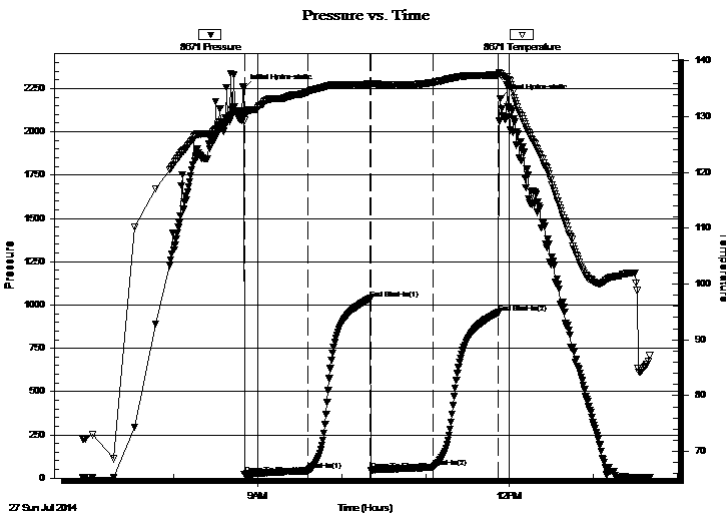
TEST COMMENT: 45 - IF: Blow built to 10 1/4"

45 - IS: No blow back

45 - FF: Blow built to 9 1/4"

45 - FS: No blow back

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2249.49	130.71	Initial Hydro-static
1	22.98	129.39	Open To Flow (1)
46	43.27	134.36	Shut-In(1)
91	1037.65	135.83	End Shut-In(1)
91	42.78	135.71	Open To Flow (2)
136	62.31	136.11	Shut-In(2)
182	956.35	137.47	End Shut-In(2)
184	2193.35	137.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	GMO 43%o, 37%m, 20%g	0.88
47.00	GOCM 65%m, 20%o, 15%g	0.66
0.00	GIP = 140'	0.00

## 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.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56949

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 06:55:00

## Tool Information

Drill Pipe:	Length: 4361.00 ft	Diameter: 3.80 inches	Volume: 61.17 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 62000.00 lb
			<u>Total Volume: 61.17 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4361.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			4346.00	
Hydraulic tool	5.00			4351.00	
Packer	5.00			4356.00	20.00 Bottom Of Top Packer
Packer	5.00			4361.00	
Stubb	1.00			4362.00	
Recorder	0.00	8671	Inside	4362.00	
Recorder	0.00	8320	Outside	4362.00	
Perforations	7.00			4369.00	
Blank Spacing	33.00			4402.00	
Bullnose	3.00			4405.00	44.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>64.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56949

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 06:55:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 51.00 sec/qt  
Water Loss: 15.95 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 500.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	GMO 43%o, 37%m, 20%g	0.884
47.00	GOCM 65%m, 20%o, 15%g	0.659
0.00	GIP = 140'	0.000

Total Length: 110.00 ft      Total Volume: 1.543 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

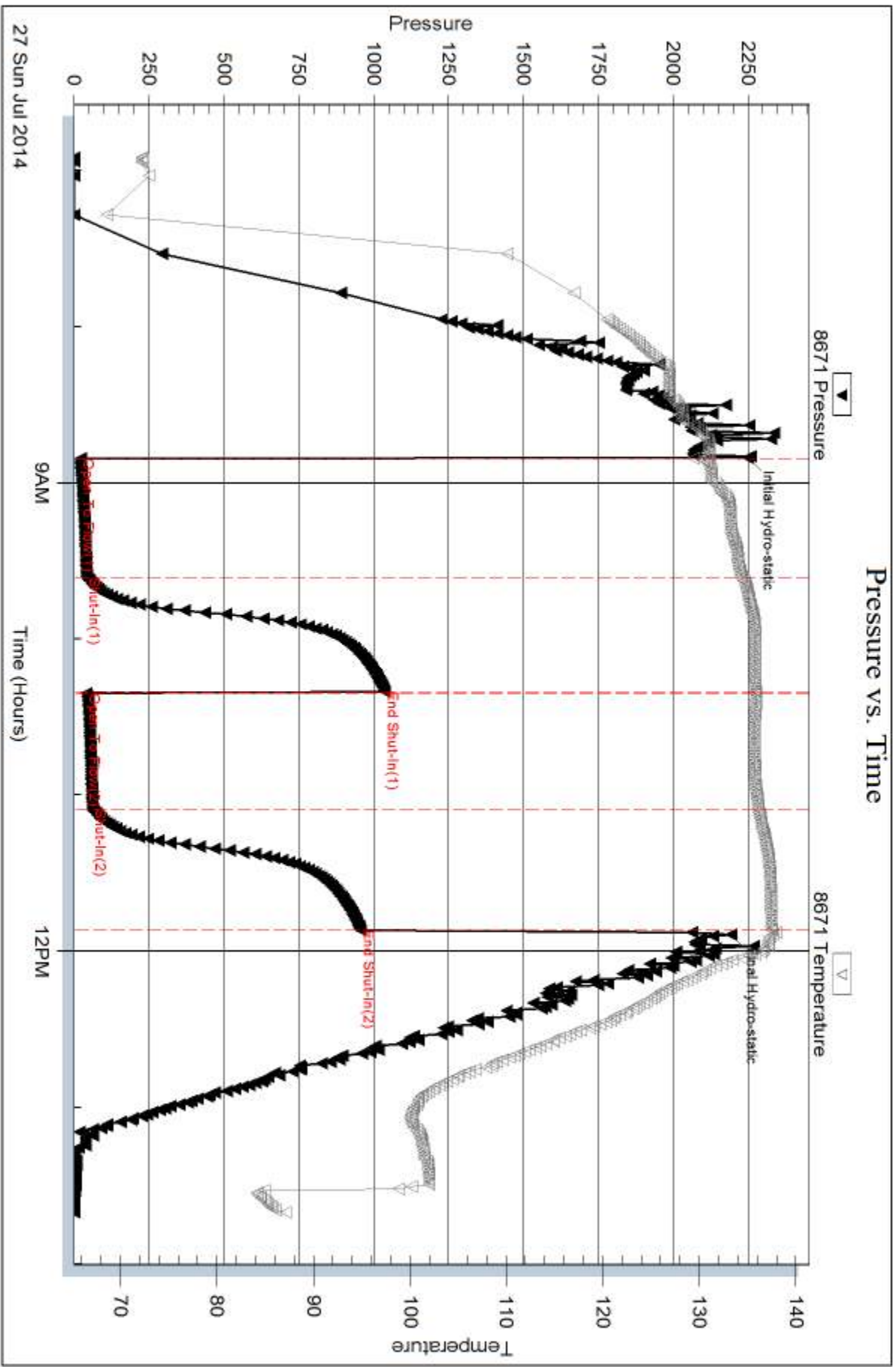
Serial #: 8671

Inside

Downing - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 1

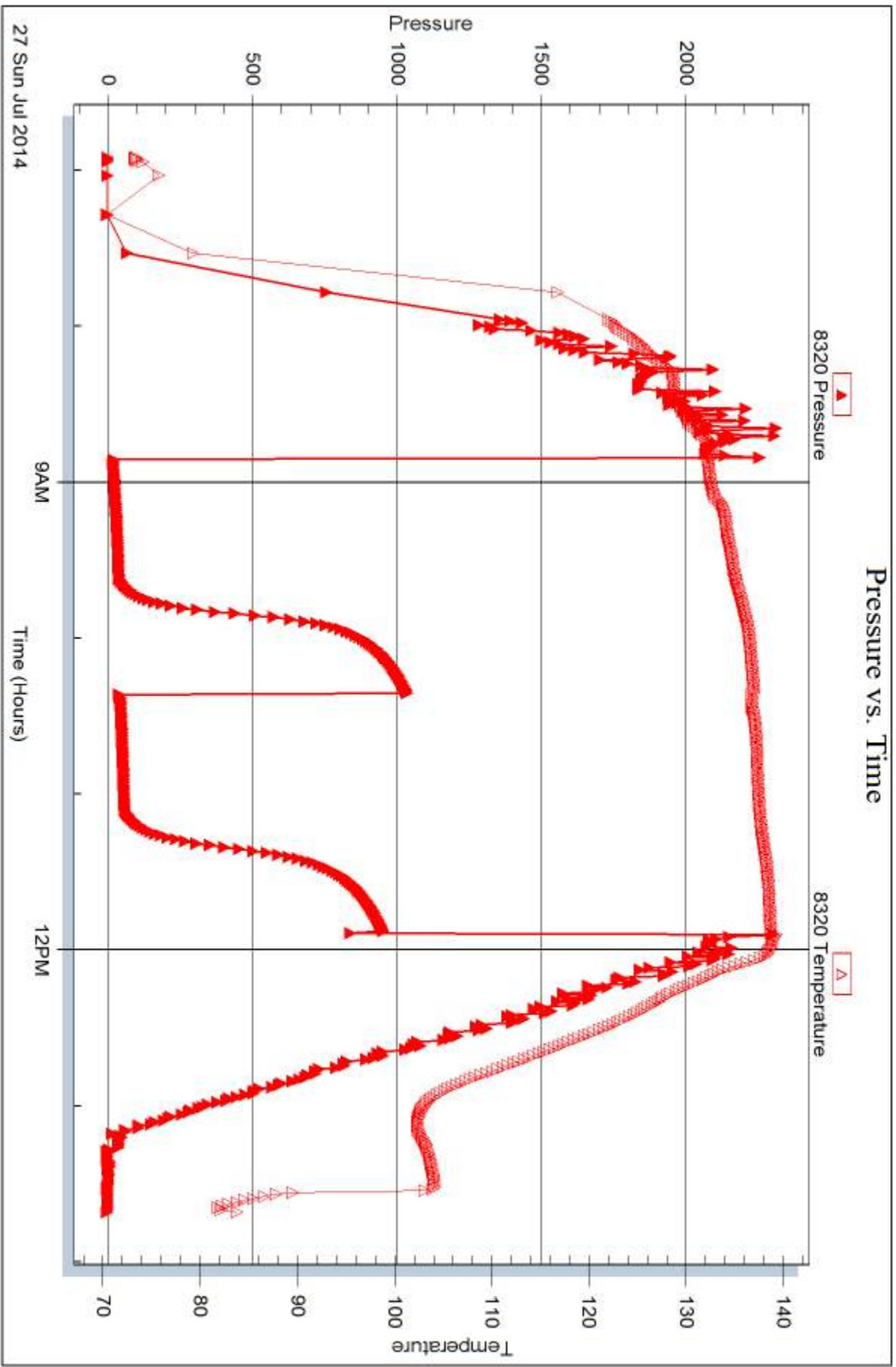


Serial #: 8320

Outside Downing - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 56949

Printed: 2014.08.02 @ 14:08:05



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Ron Nelson

### **Kramer Unit #2-24**

#### **24-5s-37w Cheyenne KS**

Start Date: 2014.07.27 @ 14:12:00

End Date: 2014.07.27 @ 19:07:45

Job Ticket #: 56950                      DST #: 2

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.02 @ 14:06:07





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56950

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 14:12:00

## GENERAL INFORMATION:

Formation: **LKC "H"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:57:00

Time Test Ended: 19:07:45

Test Type: Conventional Straddle (Reset)

Tester: James Winder

Unit No: 57

**Interval: 4324.00 ft (KB) To 4360.00 ft (KB) (TVD)**

Reference Elevations: 3289.00 ft (KB)

Total Depth: 4405.00 ft (KB) (TVD)

3275.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

**Serial #: 8671**

**Inside**

Press@RunDepth: 20.12 psig @ 4361.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.27

End Date:

2014.07.27

Last Calib.:

2014.07.27

Start Time:

14:12:05

End Time:

19:07:44

Time On Btm:

2014.07.27 @ 15:56:45

Time Off Btm:

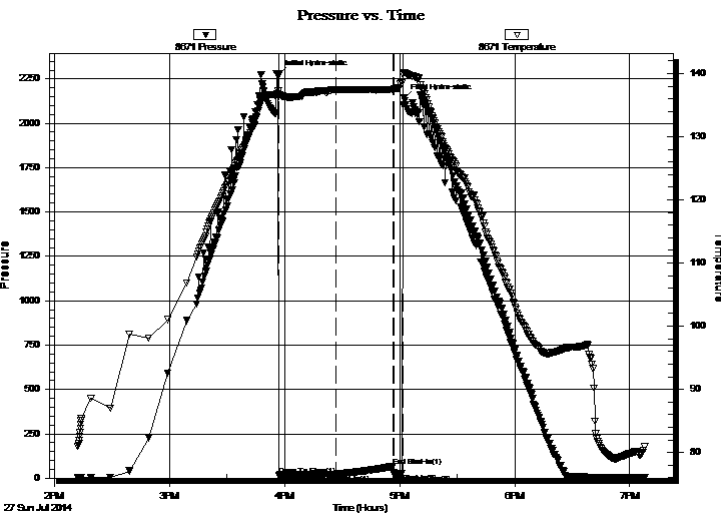
2014.07.27 @ 17:02:15

TEST COMMENT: 30 - IF: Blow built to almost 1/2"

30 - IS: No blow back

5 - FF: No blow, flushed tool, No blow

Pulled tool



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2272.66	137.20	Initial Hydro-static
1	17.70	136.30	Open To Flow (1)
30	20.12	137.41	Shut-In(1)
60	66.12	137.42	End Shut-In(1)
61	21.89	137.48	Open To Flow (2)
65	26.55	138.44	Shut-In(2)
66	2141.55	140.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 95% m, 3% o, 2% g	0.42

## 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.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56950

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 14:12:00

## Tool Information

Drill Pipe:	Length: 4328.00 ft	Diameter: 3.80 inches	Volume: 60.71 bbl	Tool Weight: 2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	4324.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	4360.00 ft			
Interval between Packers:	36.00 ft			
Tool Length:	101.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			4309.00		
Hydraulic tool	5.00			4314.00		
Packer	5.00			4319.00	20.00	Bottom Of Top Packer
Packer	5.00			4324.00		
Stubb	1.00			4325.00		
Recorder	0.00	6719	Inside	4325.00		
Recorder	0.00	8320	Outside	4325.00		
Perforations	30.00			4355.00		
Blank Off Sub	1.00			4356.00		
Blank Spacing	4.00			4360.00	36.00	Tool Interval
Packer	0.00			4360.00		
Packer - Shale	0.00			4360.00		
Stubb	1.00			4361.00		
Recorder	0.00	8366	Below	4361.00		
Perforations	8.00			4369.00		
Blank Spacing	33.00			4402.00		
Bullnose	3.00			4405.00	45.00	Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>101.00</b>					



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 56950

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2014.07.27 @ 14:12:00

## 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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 15.94 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	SOCM 95% m, 3% o, 2% g	0.421

Total Length: 30.00 ft      Total Volume: 0.421 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

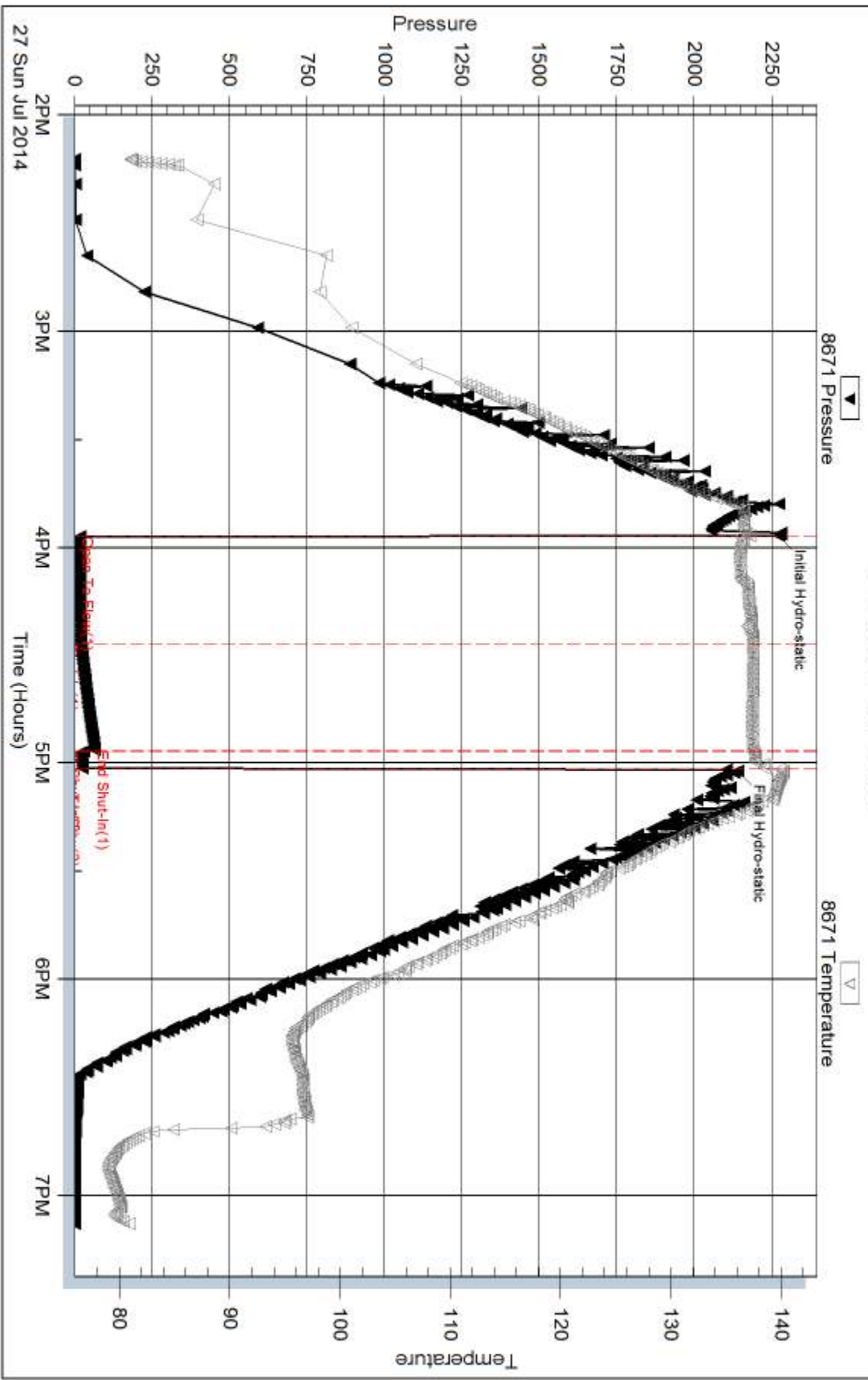
Inside

Downing - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 2

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 56950

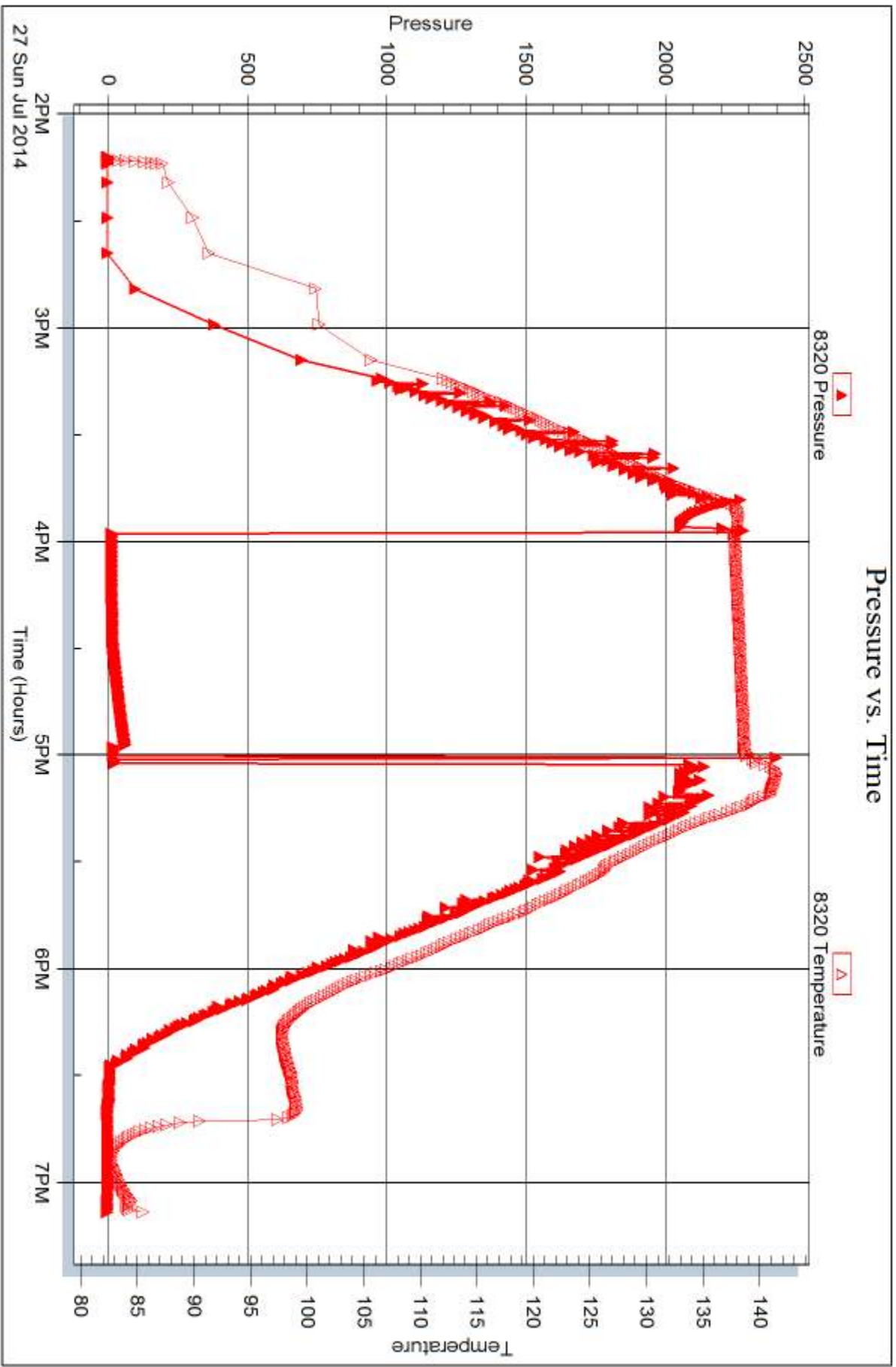
Printed: 2014.08.02 @ 14:06:09

Serial #: 8320

Outside Dowling - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56950

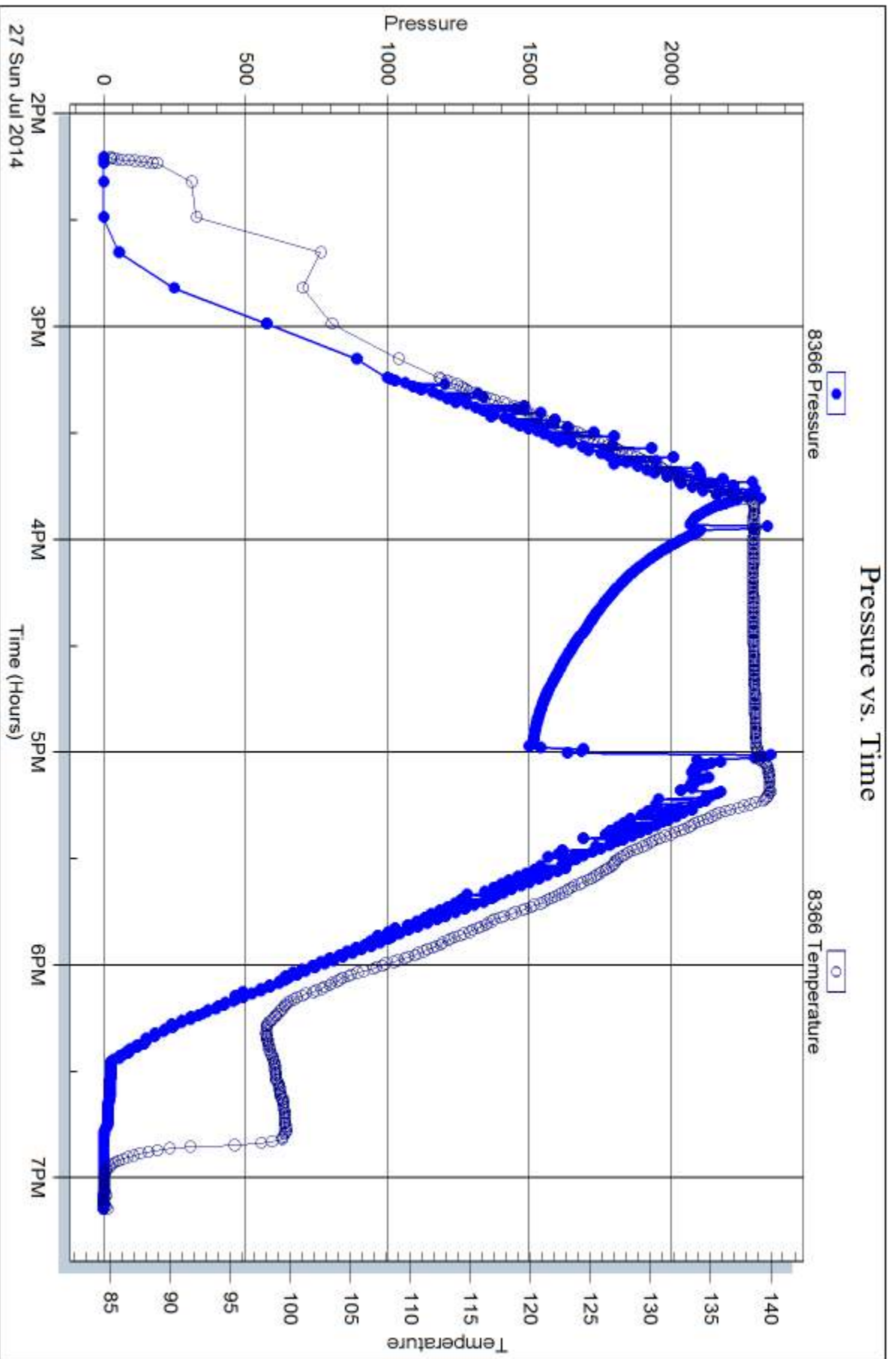
Printed: 2014.08.02 @ 14:06:09

Serial #: 8366

Below (Stratton) - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 56950

Printed: 2014.08.02 @ 14:06:09





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Ron Nelson

### **Kramer Unit #2-24**

#### **24-5s-37w Cheyenne KS**

Start Date: 2014.07.28 @ 14:50:00

End Date: 2014.07.28 @ 19:49:30

Job Ticket #: 60051                      DST #: 3

Trilobite Testing, Inc  
1515 Commerce Parkway Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.08.02 @ 14:04:14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 60051

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2014.07.28 @ 14:50:00

## GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:54:30

Time Test Ended: 19:49:30

Test Type: Conventional Bottom Hole (Reset)

Tester: James Winder

Unit No: 57

**Interval: 4580.00 ft (KB) To 4610.00 ft (KB) (TVD)**

Reference Elevations: 3289.00 ft (KB)

Total Depth: 4610.00 ft (KB) (TVD)

3275.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 14.00 ft

**Serial #: 8671 Inside**

Press@RunDepth: 18.87 psig @ 4581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.07.28 End Date: 2014.07.28

Last Calib.: 2014.07.28

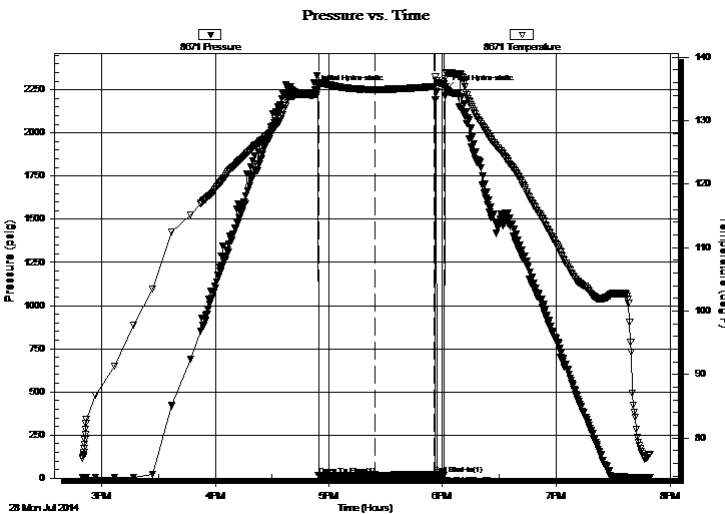
Start Time: 14:50:05 End Time: 19:49:29

Time On Btm: 2014.07.28 @ 16:52:45

Time Off Btm: 2014.07.28 @ 18:02:00

**TEST COMMENT:** 30 - IF: Blow built to 1/8", died back, dead at 15 min.  
30 - IS: No blow back  
5 - FF: No blow, flushed tool, no blow  
Pulled tool

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2253.33	134.18	Initial Hydro-static
2	14.86	135.33	Open To Flow (1)
32	18.87	134.93	Shut-In(1)
63	21.67	135.40	End Shut-In(1)
64	16.54	135.40	Open To Flow (2)
68	18.31	135.77	Shut-In(2)
70	2252.45	137.62	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%	0.01
0.00	Oil spots in tool	0.00

\* 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.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 60051

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2014.07.28 @ 14:50:00

## Tool Information

Drill Pipe:	Length: 4584.00 ft	Diameter: 3.80 inches	Volume: 64.30 bbl	Tool Weight:	2500.00 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	66000.00 lb
			<u>Total Volume: 64.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	4580.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	50.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments: tool slid 12' to bottom before open, no mud loss

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			4565.00	
Hydraulic tool	5.00			4570.00	
Packer	5.00			4575.00	20.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Stubb	1.00			4581.00	
Recorder	0.00	8671	Inside	4581.00	
Recorder	0.00	8320	Outside	4581.00	
Perforations	26.00			4607.00	
Bullnose	3.00			4610.00	30.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>50.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing - Nelson Oil Co., Inc.

**24-5s-37w Cheyenne KS**

PO Box 1019  
Hays, KS 67601

**Kramer Unit #2-24**

Job Ticket: 60051

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2014.07.28 @ 14:50:00

## 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: 55.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%	0.014
0.00	Oil spots in tool	0.000

Total Length: 1.00 ft      Total Volume: 0.014 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8671

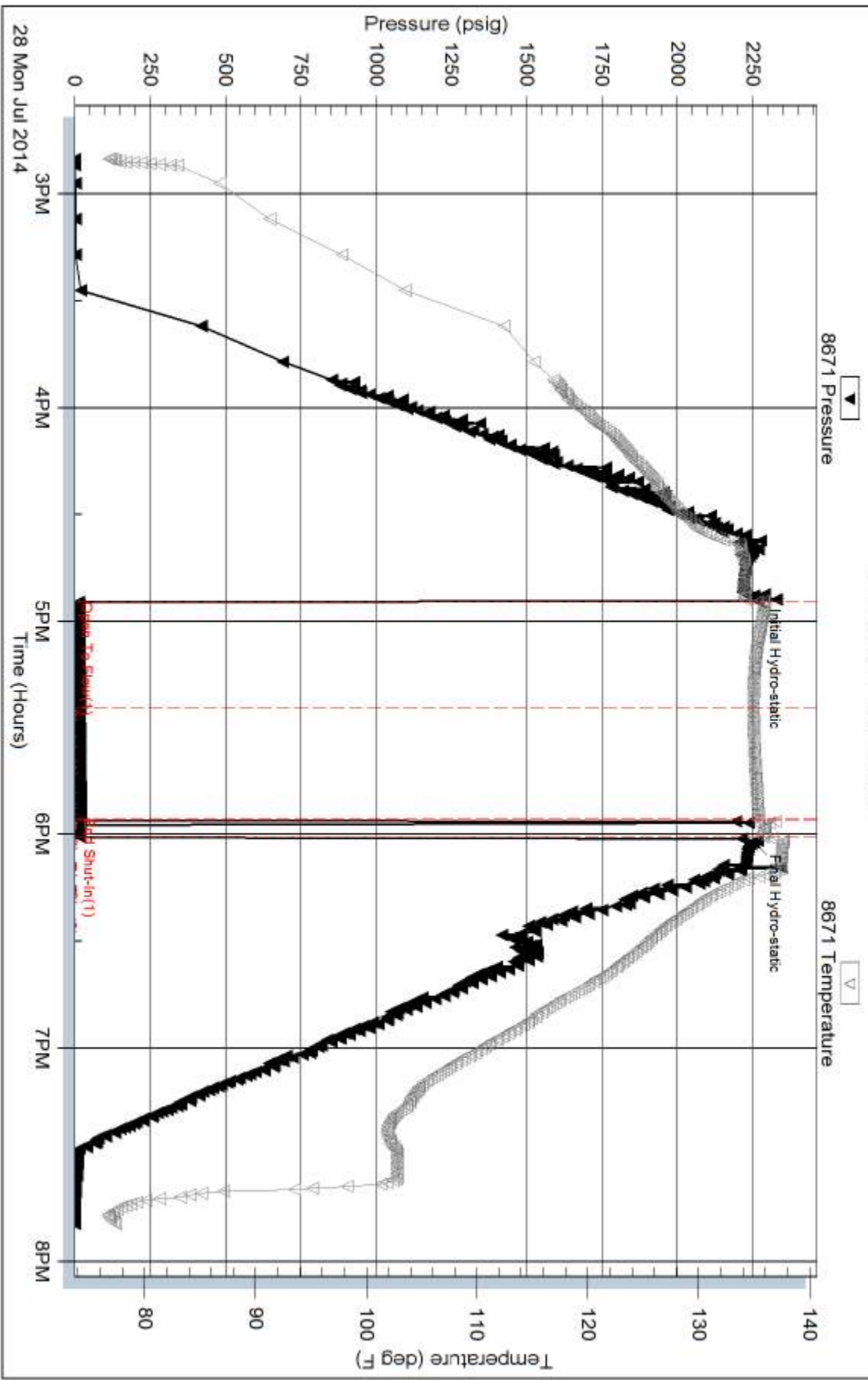
Inside

Downing - Nelson Oil Co., Inc.

Kramer Unit #2-24

DST Test Number: 3

### Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 60051

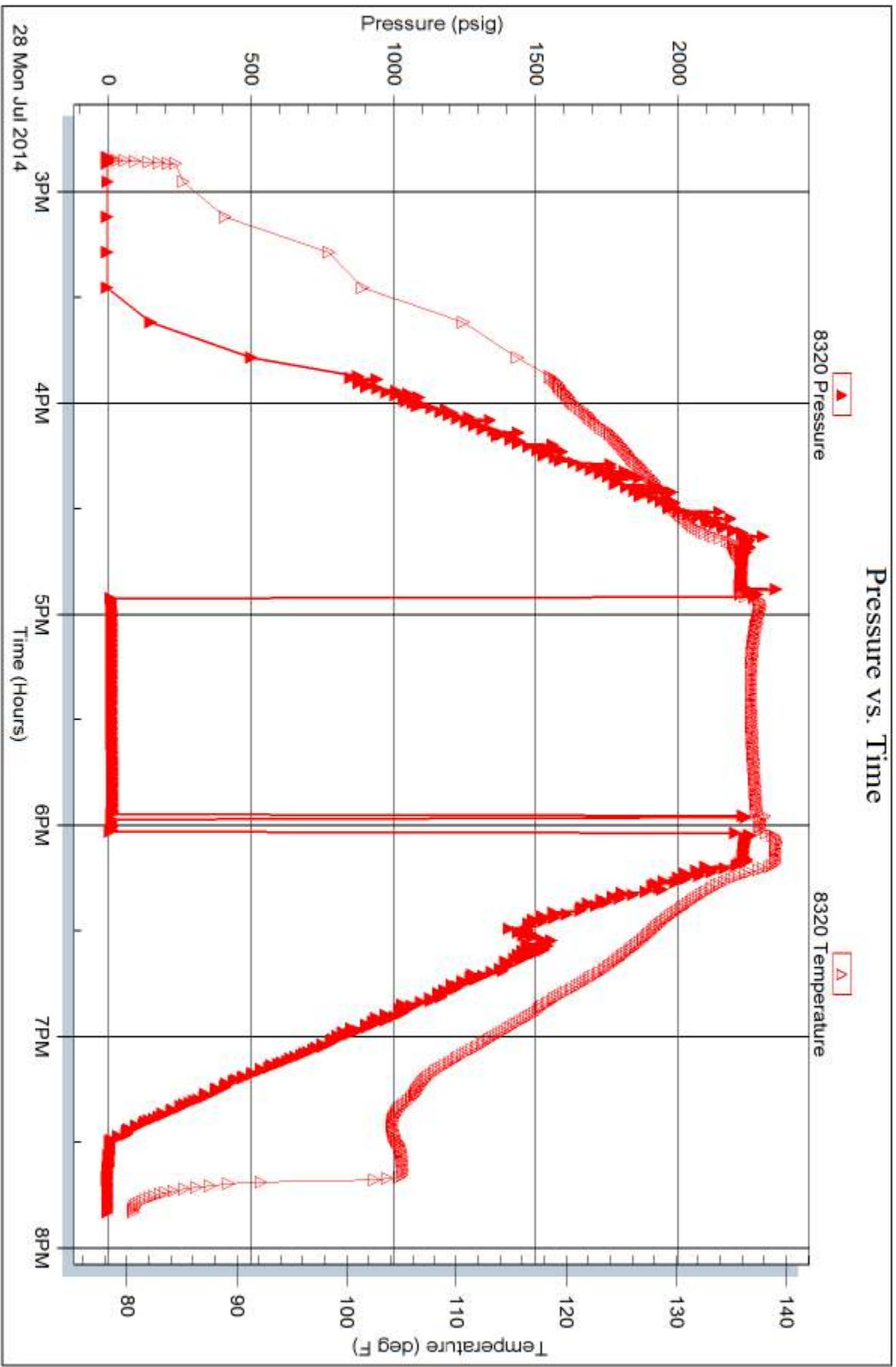
Printed: 2014.08.02 @ 14:04:15

Serial #: 8320

Outside Downing - Nelson Oil Co., Inc.

Kramer Unit #2-24

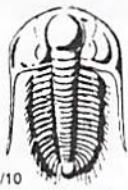
DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 60051

Printed: 2014.08.02 @ 14:04:16



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **56949**

4/10

Well Name & No. Kramer Unit #2-24 Test No. 1 Date 7-27-14  
 Company Downing-Nelson Oil Co. Inc Elevation 3289 KB 3275 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Ninnescah #101  
 Location: Sec. 24 Twp. 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4361 - 4405 Zone Tested LKC "I-J"  
 Anchor Length 44 Drill Pipe Run 4361 Mud Wt. 9.0  
 Top Packer Depth 4356 Drill Collars Run - Vis 51  
 Bottom Packer Depth 4361 Wt. Pipe Run - WL 16  
 Total Depth 4405 Chlorides 500 ppm System LCM 500 -  
 Blow Description IF: Blow built to 10 1/4"  
ISI: No blowback  
FF: Blow built to 9 1/4"  
FSI: No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>47</u>	<u>60cm</u>	<u>15</u>	<u>20</u>	<u>-</u>	<u>65</u>
<u>63</u>	<u>6m0</u>	<u>20</u>	<u>43</u>	<u>-</u>	<u>37</u>
	<u>GIP = 140'</u>				

Rec Total 110 BHT 138 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2249  Test 1250 T-On Location 6:20  
 (B) First Initial Flow 23  Jars \_\_\_\_\_ T-Started 6:55  
 (C) First Final Flow 43  Safety Joint \_\_\_\_\_ T-Open 8:50  
 (D) Initial Shut-In 1038  Circ Sub \_\_\_\_\_ T-Pulled 11:52  
 (E) Second Initial Flow 43  Hourly Standby \_\_\_\_\_ T-Out 13:40  
 (F) Second Final Flow 62  Mileage 130RT 201.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 956  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2193  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 45  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1451.50  
 Final Flow 45  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1451.50

Approved By \_\_\_\_\_ Our Representative James Winder

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. 56950

Well Name & No. Kramer Unit #2-24 Test No. 2 Date 7-27-14  
 Company Downing - Nelson Oil Co. Inc Elevation 3289 KB 3275 GL  
 Address PO Box 1019 Hays, KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Ninnescah #101  
 Location: Sec. 24 Twp. 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4324-4360 Zone Tested LKC "H"  
 Anchor Length 36 Anchor 45 tail Drill Pipe Run 4328 Mud Wt. 9.0  
 Top Packer Depth 4319 - 4324 Drill Collars Run - Vis 51  
 Bottom Packer Depth 4360 Wt. Pipe Run - WL 16  
 Total Depth 4405 Chlorides 500 ppm System LCM -  
 Blow Description IF: Blow built to almost 1/2"  
ISI: No blowback  
FF: No blow, Flushed tool No blow  
Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>50cm</u>	<u>2</u>	<u>3</u>	<u>-</u>	<u>95</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 30 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 2273  Test 1250 T-On Location 14:00  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 14:12  
 (C) First Final Flow 20  Safety Joint \_\_\_\_\_ T-Open 15:57  
 (D) Initial Shut-In 66  Circ Sub \_\_\_\_\_ T-Pulled 17:01  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 19:00  
 (F) Second Final Flow 27  Mileage \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 8  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2142  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer / 320  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 2170  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 2170

Approved By \_\_\_\_\_ Our Representative James Winkler

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 60051

Well Name & No. Kramer Unit #2-24 Test No. 3 Date 7-28-14  
 Company Downing-Nelson Oil Co. Inc Elevation 3289 KB 3275 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Ninnescah  
 Location: Sec. 24 Twp. 5s Rge. 37w Co. Cheyenne State KS

Interval Tested 4580 - 4610 Zone Tested Pawnee  
 Anchor Length 30 Drill Pipe Run 4584 Mud Wt. 9.1  
 Top Packer Depth 4575 Drill Collars Run - Vis 55  
 Bottom Packer Depth 4580 Wt. Pipe Run - WL 10  
 Total Depth 4610 Chlorides 500 ppm System LCM -  
 Blow Description IF: Blow built to 1/8", died back, dead at 15 min.  
ISI: No blowback  
FF: No blow, Flushed tool, No blow  
Pulled tool

Rec	Feet of	%gas	%oil	%water	%mud
1	mud				100
	Oil spots in tool				

Rec Total 1 BHT 138 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>2253</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>14:35</u>
(B) First Initial Flow <u>15</u>	<input type="checkbox"/> Jars _____	T-Started <u>14:50</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>16:54</u>
(D) Initial Shut-In <u>22</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:00</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:45</u>
(F) Second Final Flow <u>18</u>	<input checked="" type="checkbox"/> Mileage <u>130RTX2</u> 403	Comments <u>tool slid 12" to</u>
(G) Final Shut-In <u>-</u>	<input type="checkbox"/> Sampler _____	<u>bottom before open.</u>
(H) Final Hydrostatic <u>2252</u>	<input type="checkbox"/> Straddle _____	<u>No mud loss</u>
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>800</u>
	<input checked="" type="checkbox"/> Day Standby <u>Tools loaded 19:30</u>	Total <u>2453</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1653</u>	

Approved By \_\_\_\_\_ Our Representative James Winkler

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