



KANSAS CORPORATION COMMISSION 1116357  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Urban Brothers 1-24
Doc ID	1116357

Tops

Name	Top	Datum
Top Anhydrite	1126'	+881
Base Anhydrite	1165'	+842
Topeka	3007'	-1010
Heebner	3245'	-1238
Toronto	3265'	-1258
LKC	3298'	-1291
BKC	3520'	-1513
Arbuckle	3579'	-1572



# ALLIED OIL & GAS SERVICES, LLC 059286

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Great Bend, KS

DATE <u>2-8-13</u>	SEC. <u>24</u>	TWP. <u>16S</u>	RANGE <u>17W</u>	CALLED OUT <u>6:00 AM</u>	ON LOCATION <u>7:50 AM</u>	JOB START <u>12:00 PM</u>	JOB FINISH <u>1:00 PM</u>
LEASE <u>Urban Brothers</u>		WELL# <u>1-24</u>	LOCATION <u>Loretta East 1/2 miles. South into location (4.3 miles)</u>	COUNTY <u>Rush</u>	STATE <u>KS</u>		
OLD OR <u>NEW</u> (Circle one)						<u>1.03</u>	

CONTRACTOR Discovery 4  
 TYPE OF JOB PTA  
 HOLE SIZE 7 7/8" T.D. 3993ft  
 CASING SIZE 8 7/8" 23" DEPTH 1138ft  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE 4 1/2" 16.6" DEPTH 3559ft  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_  
 CEMENT LEFT IN CSG. \_\_\_\_\_  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT WBM + FW

OWNER Downing & Nelson Oil Co. Inc  
 CEMENT AMOUNT ORDERED 205 sk 60/40 + 4% Gel  
+ 7.5% Flo-Spool

EQUIPMENT  
 PUMP TRUCK CEMENTER Charles Elkins  
 # 348 HELPER Josh Isaac (Wayne Bands)  
 BULK TRUCK  
 # 341 DRIVER Dan Casper  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>123</u>	@ <u>17.90</u>	<u>2,201.70</u>
POZMIX	<u>82</u>	@ <u>9.35</u>	<u>766.70</u>
GEL	<u>7</u>	@ <u>23.40</u>	<u>163.80</u>
CHLORIDE		@	
ASC		@	
	<u>1100001</u>	<u>52</u>	@ <u>2.97</u> <u>154.14</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>220.12</u>	@ <u>2.48</u>	<u>545.89</u>
MILEAGE	<u>9.19 x 34</u>	@ <u>2.60</u>	<u>238.26</u>
			<u>TOTAL 4,645.10</u>

REMARKS:  
Set Plug 2 @ 3559ft: 6FW, 12.5cm, 2FW, 40WBM (60sk)  
Set Plug 2 @ 1170ft: 6FW, 12.5cm, 10FW (50sk)  
Set Plug 3 @ 480ft: 6FW, 10cm, 3FW (40sk)  
Set Plug 4 @ 60ft: 5cm (20sk)  
Plug Ret Hole with 7.5cm (30sk)  
Plug Mouse Hole with 3.75cm (15sk)  
Push Down Wooden Plug To 60ft

312.49

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE	<u>2600.41</u>	
EXTRA FOOTAGE	@	
MILEAGE	<u>Hum 34</u>	@ <u>7.70</u> <u>261.80</u>
MANIFOLD	@	
	<u>Hum 34</u>	@ <u>4.40</u> <u>149.60</u>
	@	
<u>TOTAL 3,011.87</u>		

CHARGE TO: Downing & Nelson Oil Co. Inc.  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>1 3/8" Wooden Plug</u>	@ <u>107.64</u>	<u>107.64</u>
	@	
	@	
	@	
	@	
<u>TOTAL 107.64</u>		

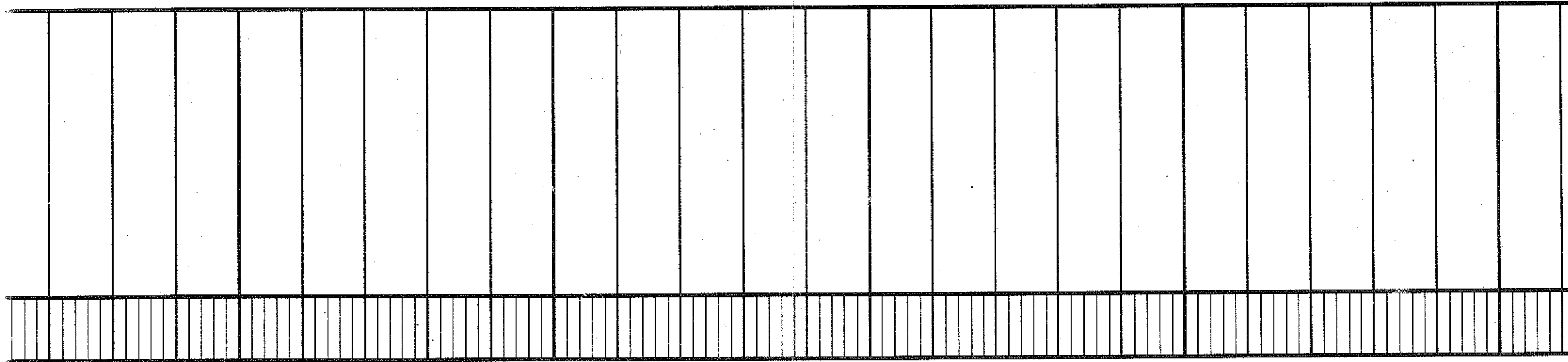
To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) 489.16  
 TOTAL CHARGES 7,764.52  
 DISCOUNT 1,941.13 IF PAID IN 30 DAYS  
5,823.39

PRINTED NAME \_\_\_\_\_  
 SIGNATURE Nike [Signature]







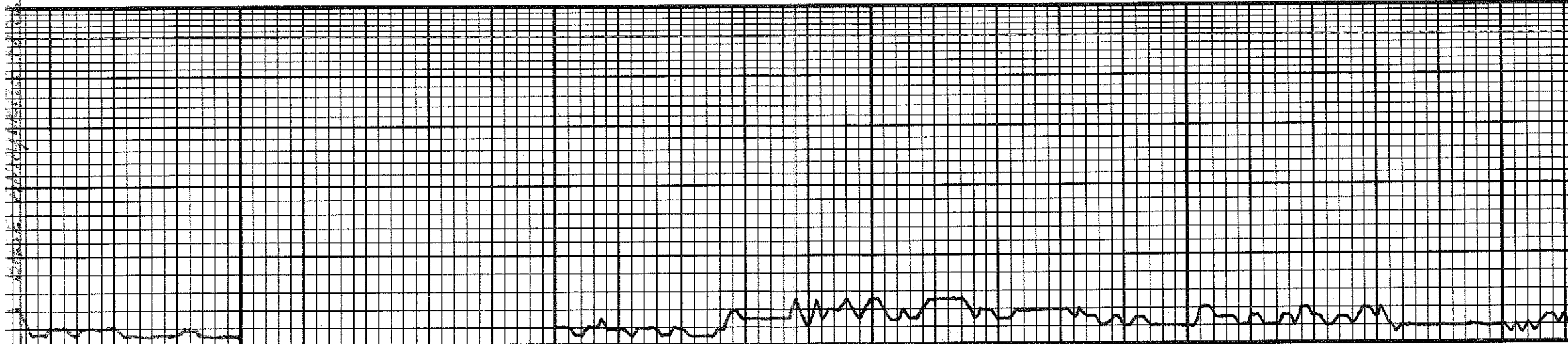
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2800

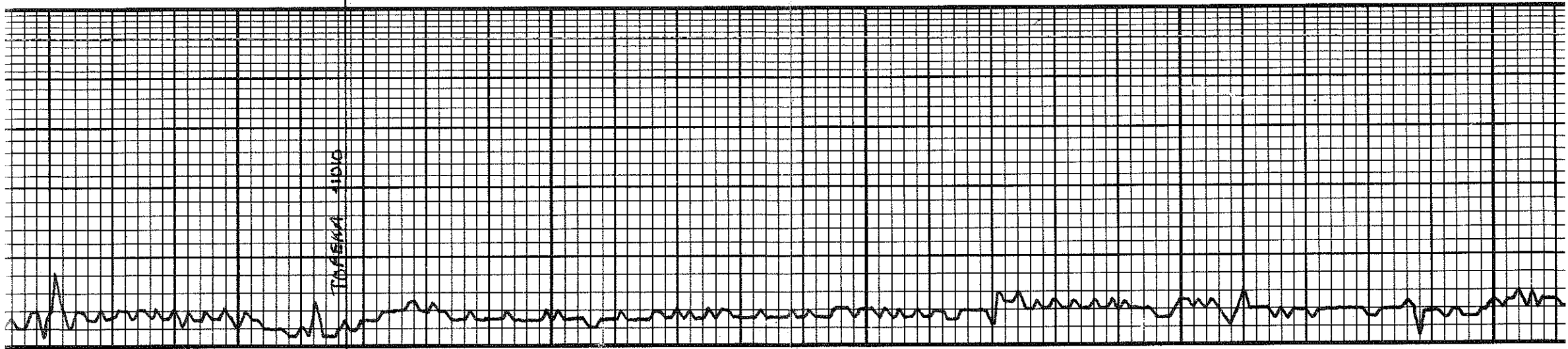
50

2900

50







3000

50

3100

50

3200

SAS grey degeny	LS from a xylw pt. nearly pr. xylw. for m. xylw LS AS	unpaired	BRN 04	LS from a xylw pt. nearly w/ solid m. xylw LS.	LS from grey m. xylw xylw in pt. AS	LS 04	LS from - stain m. xylw 5 m solid pp. 0.5 m. LS ALL. BRN 04	SA BLK 04	SA 04	LS from - BRN m. xylw AS.	LS with f. xylw pr. xylw ALL. w/ V for pcs. AS	PRIS - m. xylw LS LS 04	9904	m. xylw LS AS SA BLK 04	LS from xylw in pt. m. xylw xylw in pt. AS	LS from xylw m. xylw AS 9904	LS from xylw m. xylw AS	LS from xylw m. xylw AS	LS from xylw m. xylw AS
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## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Urban Brothers #1-24**

### **24-16s-17w Rush,KS**

Start Date: 2013.02.06 @ 11:30:23

End Date: 2013.02.06 @ 18:12:02

Job Ticket #: 51646                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.11 @ 12:02:50



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

ATTN: Ron Nelson

Job Ticket: 51646

**DST#: 1**

Test Start: 2013.02.06 @ 11:30:23

## GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:58:03

Time Test Ended: 18:12:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 42

**Interval: 3356.00 ft (KB) To 3397.00 ft (KB) (TVD)**

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3397.00 ft (KB) (TVD)

1999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369**

**Inside**

Press @ RunDepth: 141.88 psig @ 3362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.06

End Date:

2013.02.06

Last Calib.:

2013.02.06

Start Time:

11:30:23

End Time:

18:12:02

Time On Btm:

2013.02.06 @ 13:55:48

Time Off Btm:

2013.02.06 @ 16:35:17

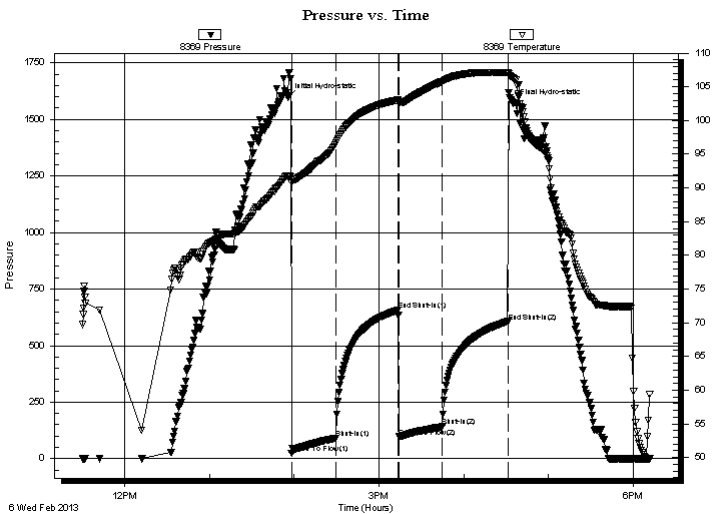
**TEST COMMENT:** 30-IFP-w k to strg in 25 min

45-ISIP-no bl bk

30-FFP-w k to a fr bl 1/2" to 5" bl

45-FSIP-no bl bk

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.13	91.80	Initial Hydro-static
3	23.73	90.75	Open To Flow (1)
34	90.65	96.62	Shut-In(1)
78	656.48	103.03	End Shut-In(1)
79	96.40	102.83	Open To Flow (2)
110	141.88	105.79	Shut-In(2)
156	605.75	107.08	End Shut-In(2)
160	1570.42	106.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	Water	2.25
70.00	MW 15%M85%W	0.98

## 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

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51646

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.02.06 @ 11:30:23

## Tool Information

Drill Pipe:	Length: 3318.00 ft	Diameter: 3.80 inches	Volume: 46.54 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: 55000.00 lb
			<u>Total Volume: 46.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3356.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	41.00 ft			
Tool Length:	61.00 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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Change Over Sub	0.00			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	5.00			3351.00	20.00 Bottom Of Top Packer
Packer	5.00			3356.00	
Stubb	1.00			3357.00	
Perforations	5.00			3362.00	
Recorder	0.00	8369	Inside	3362.00	
Recorder	0.00	8700	Outside	3362.00	
Blank Spacing	32.00			3394.00	
Bullnose	3.00			3397.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 61.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

**24-16s-17w Rush, KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51646

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.02.06 @ 11:30:23

## 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:

93000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.33 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	Water	2.252
70.00	MW 15%M85%W	0.982

Total Length: 250.00 ft      Total Volume: 3.234 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .09@65F



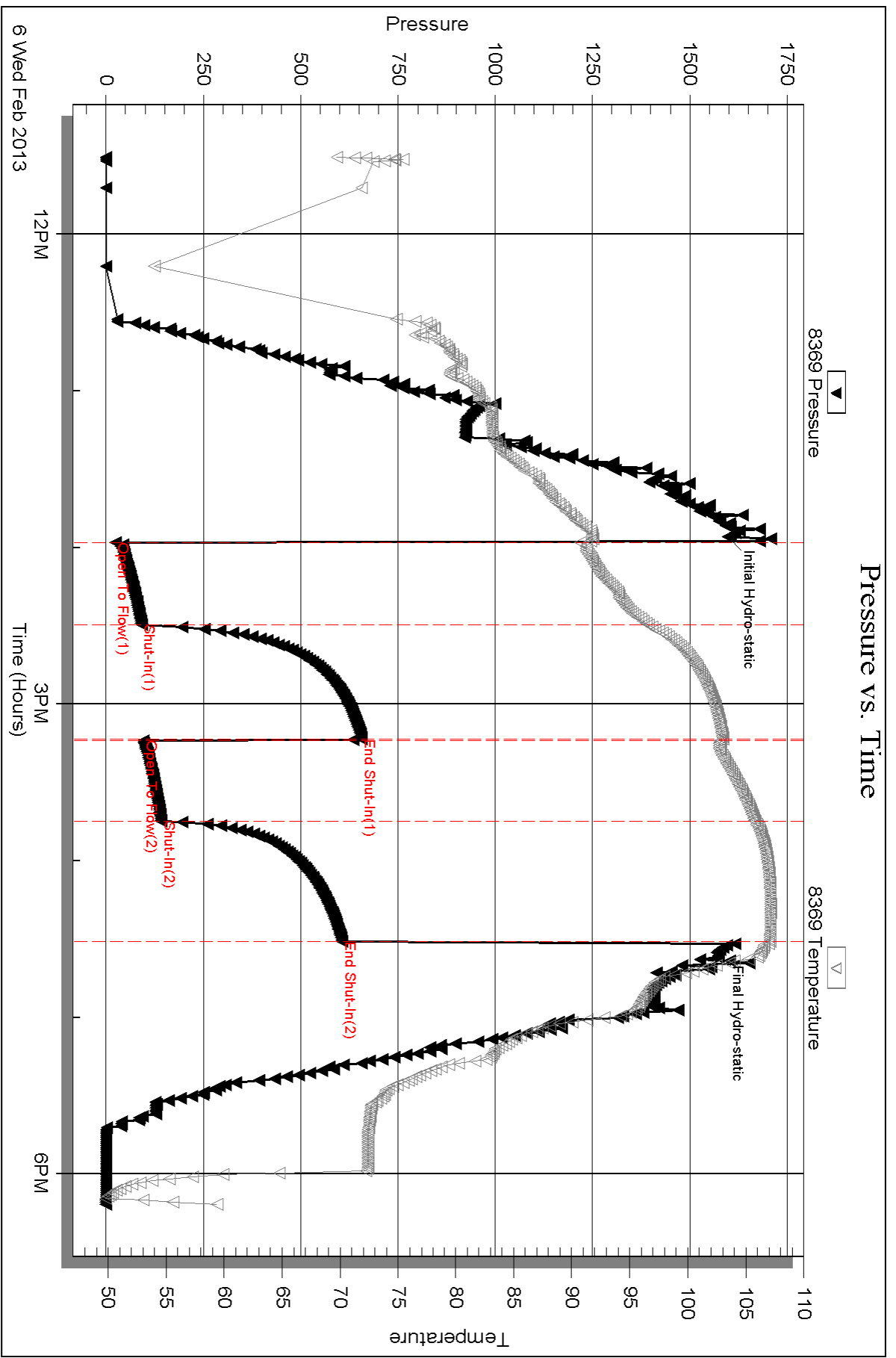
Serial #: 8369

Inside

Dow nting-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51646

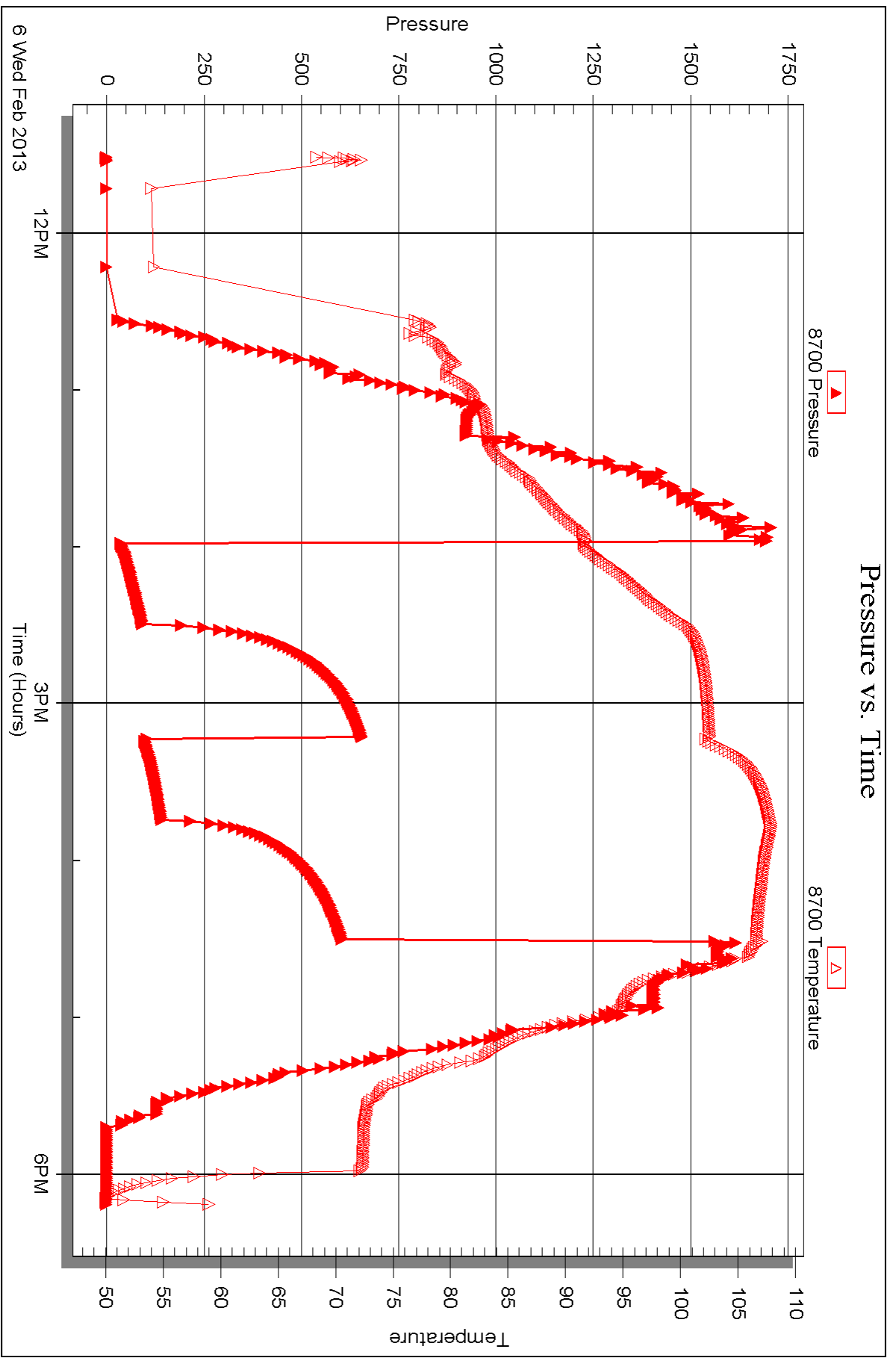
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Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 51646

Printed: 2013.02.11 @ 12:02:53



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Urban Brothers #1-24**

### **24-16s-17w Rush,KS**

Start Date: 2013.02.07 @ 03:46:01

End Date: 2013.02.07 @ 09:37:40

Job Ticket #: 51647                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.11 @ 12:02:11



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

ATTN: Ron Nelson

Job Ticket: 51647

**DST#: 2**

Test Start: 2013.02.07 @ 03:46:01

## GENERAL INFORMATION:

Formation: **LKC I-K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:31:56

Time Test Ended: 09:37:40

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

**Interval: 3446.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

1999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369**

**Inside**

Press @ Run Depth: 20.40 psig @ 3448.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.07

End Date:

2013.02.07

Last Calib.: 2013.02.07

Start Time: 03:46:01

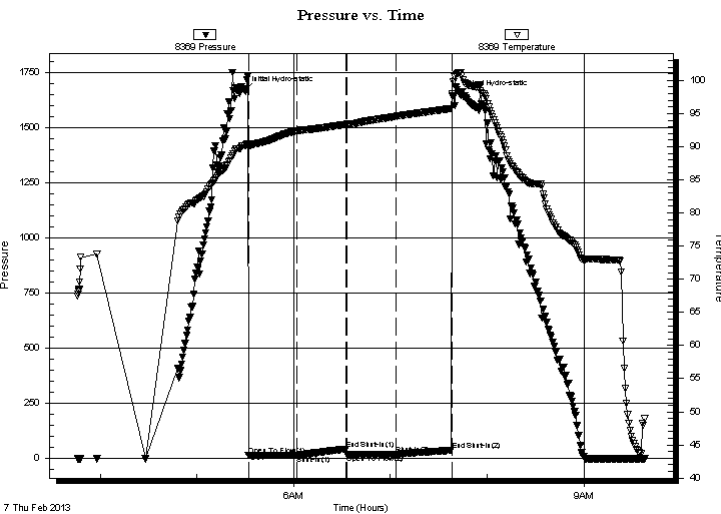
End Time:

09:37:40

Time On Btm: 2013.02.07 @ 05:29:41

Time Off Btm: 2013.02.07 @ 07:43:26

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/4" bl  
30-ISIP-no bl  
30-FFP-surface bl thru-out  
30-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1667.33	90.19	Initial Hydro-static
3	14.38	89.85	Open To Flow (1)
32	15.10	92.35	Shut-In(1)
63	43.98	93.36	End Shut-In(1)
64	18.64	93.40	Open To Flow (2)
94	20.40	94.56	Shut-In(2)
129	37.39	95.77	End Shut-In(2)
134	1649.21	101.20	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 6%O94%M	0.05

\* 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

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51647

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.02.07 @ 03:46:01

## Tool Information

Drill Pipe:	Length: 3413.00 ft	Diameter: 3.80 inches	Volume: 47.88 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: 55000.00 lb
			<u>Total Volume: 48.03 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3446.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	54.00 ft			
Tool Length:	74.00 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	0.00			3426.00	
Shut In Tool	5.00			3431.00	
Hydraulic tool	5.00			3436.00	
Packer	5.00			3441.00	20.00 Bottom Of Top Packer
Packer	5.00			3446.00	
Stubb	1.00			3447.00	
Perforations	1.00			3448.00	
Recorder	0.00	8369	Inside	3448.00	
Recorder	0.00	8700	Outside	3448.00	
Blank Spacing	32.00			3480.00	
Perforations	17.00			3497.00	
Bullnose	3.00			3500.00	54.00 Bottom Packers & Anchor

**Total Tool Length: 74.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51647

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.02.07 @ 03:46:01

## 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: 80.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.31 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbf
10.00	OCM 6%O94%M	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8369

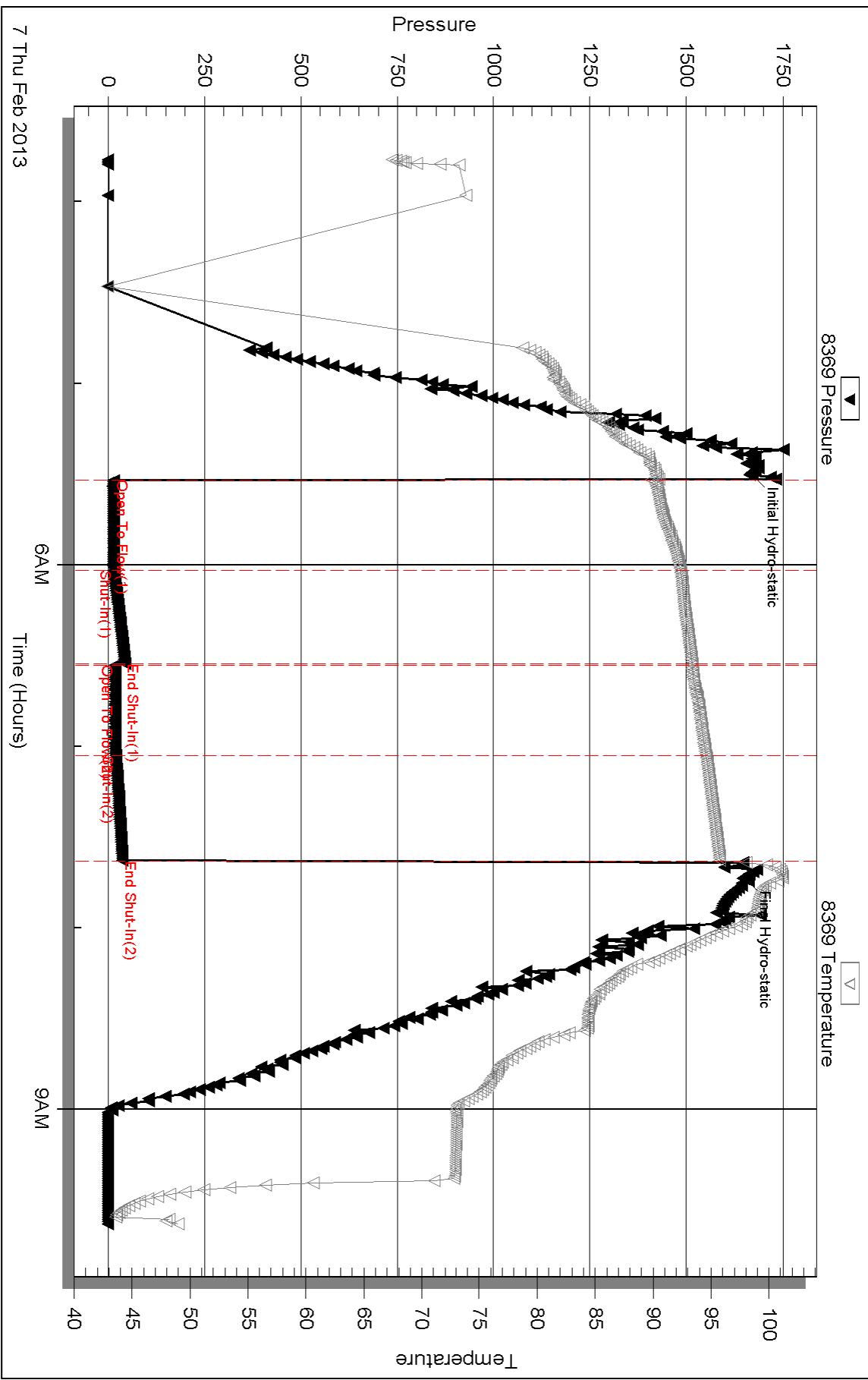
Inside

Dow nung-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 2

### Pressure vs. Time



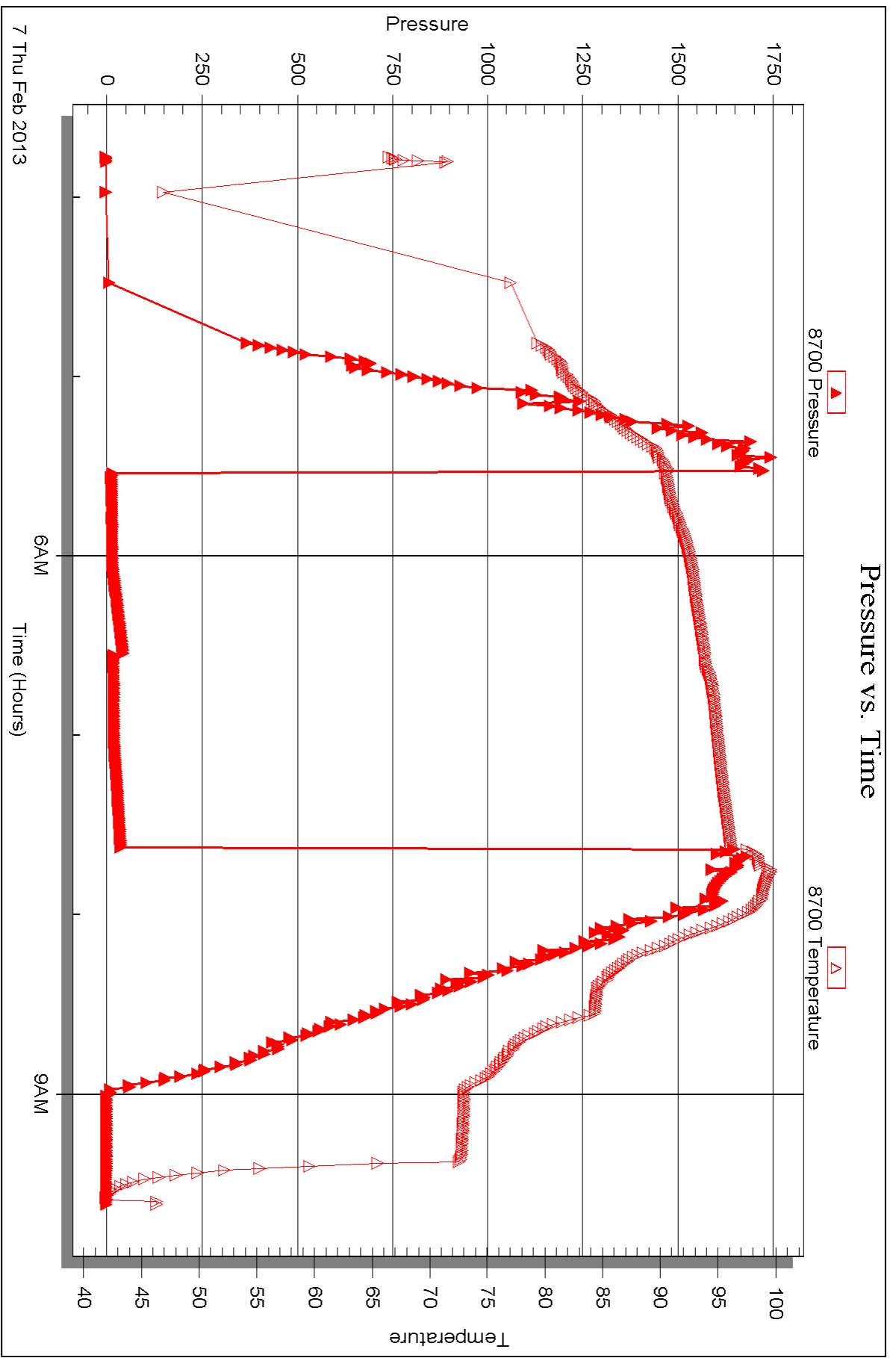


Serial #: 8700

Outside Dow nting-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 51647

Printed: 2013.02.11 @ 12:02:14



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

### **Urban Brothers #1-24**

### **24-16s-17w Rush,KS**

Start Date: 2013.02.07 @ 20:00:05

End Date: 2013.02.08 @ 00:46:14

Job Ticket #: 51648                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.02.11 @ 11:33:52



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

ATTN: Ron Nelson

Job Ticket: 51648

**DST#: 3**

Test Start: 2013.02.07 @ 20:00:05

## GENERAL INFORMATION:

Formation: **Congl Sd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:13:30

Time Test Ended: 00:46:14

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

**Interval: 3484.00 ft (KB) To 3553.00 ft (KB) (TVD)**

Reference Elevations: 2007.00 ft (KB)

Total Depth: 3553.00 ft (KB) (TVD)

1999.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8369**

**Inside**

Press @ Run Depth: 25.15 psig @ 3490.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.07

End Date:

2013.02.08

Last Calib.:

2013.02.08

Start Time: 20:00:05

End Time:

00:46:14

Time On Btm:

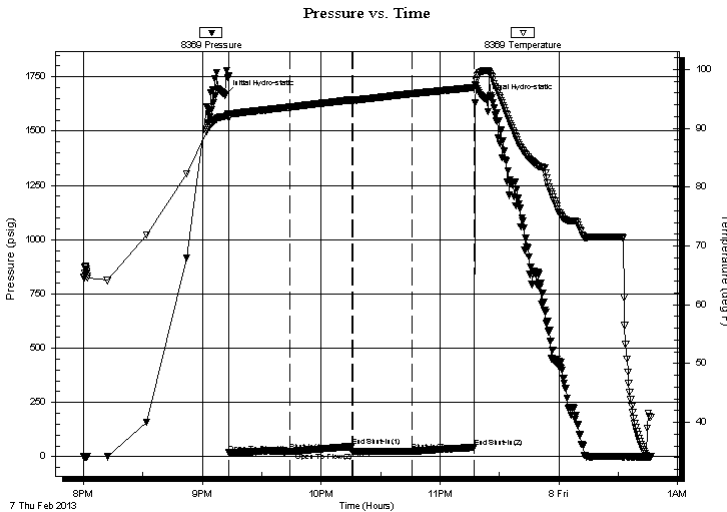
2013.02.07 @ 21:11:30

Time Off Btm:

2013.02.07 @ 23:22:45

**TEST COMMENT:** 30-IFP-w k bl thru-out 1/4" to 3/4" bl  
30-ISIP-no bl  
30-FFP-w k bl thru-out 3/4" bl  
30-FSIP-no bl

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.93	92.04	Initial Hydro-static
2	17.73	91.86	Open To Flow (1)
33	23.31	93.59	Shut-In(1)
64	47.52	94.82	End Shut-In(1)
65	21.28	94.78	Open To Flow (2)
95	25.15	95.87	Shut-In(2)
126	42.86	96.97	End Shut-In(2)
132	1648.76	99.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SOCM 5% O95%M	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

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51648

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.02.07 @ 20:00:05

## Tool Information

Drill Pipe:	Length: 3444.00 ft	Diameter: 3.80 inches	Volume: 48.31 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: 55000.00 lb
			<u>Total Volume: 48.46 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3484.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.00 ft			
Tool Length:	89.00 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	0.00			3464.00	
Shut In Tool	5.00			3469.00	
Hydraulic tool	5.00			3474.00	
Packer	5.00			3479.00	20.00 Bottom Of Top Packer
Packer	5.00			3484.00	
Stubb	1.00			3485.00	
Perforations	5.00			3490.00	
Recorder	0.00	8369	Inside	3490.00	
Recorder	0.00	8700	Outside	3490.00	
Blank Spacing	33.00			3523.00	
Perforations	27.00			3550.00	
Bullnose	3.00			3553.00	69.00 Bottom Packers & Anchor

**Total Tool Length: 89.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc

**24-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban Brothers #1-24**

Job Ticket: 51648

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.02.07 @ 20:00:05

## 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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
10.00	SOCM 5% O95% M	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:

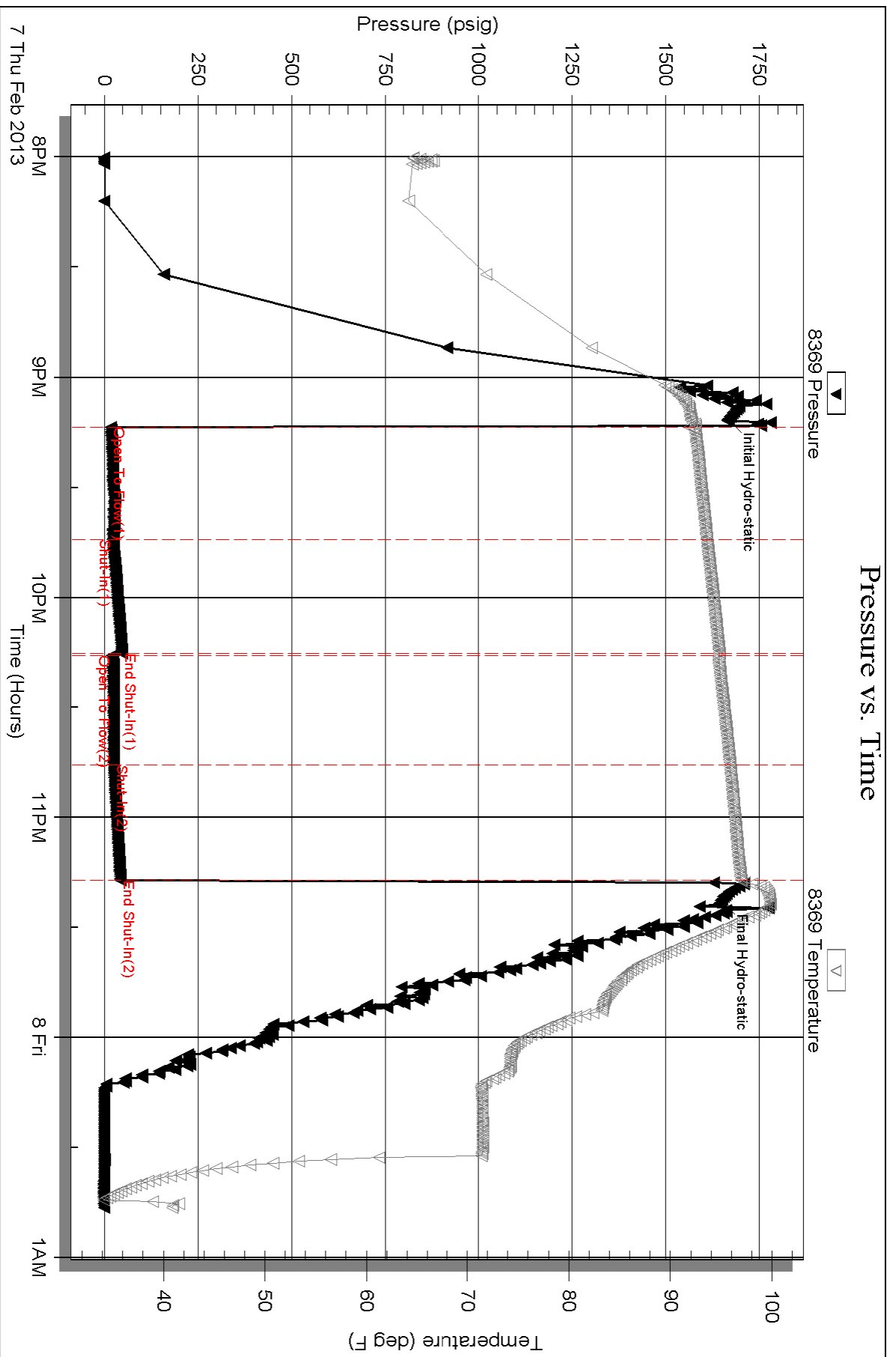
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Inside

Downing-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 3

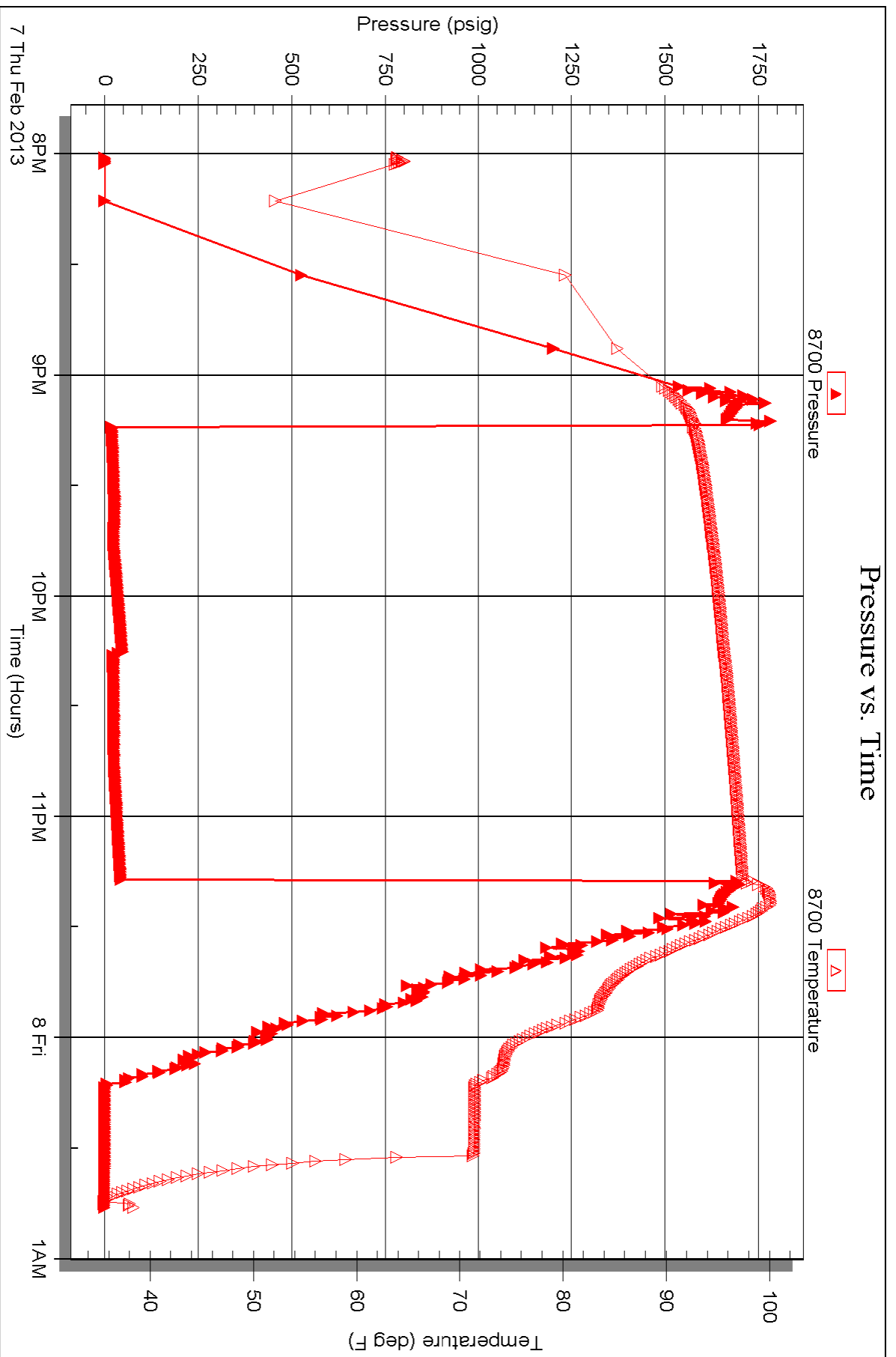


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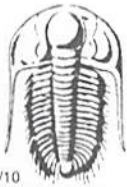
Outside Dow nting-Nelson Oil Co Inc

Urban Brothers #1-24

DST Test Number: 3







# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51646

4/10

Well Name & No. Urban Brothers #1-24 Test No. 1 Date 2-6-13  
 Company Downing-Nelson Oil Co Inc Elevation 2007 KB 1999 GL  
 Address PO Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery rig 4  
 Location: Sec. 24 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ks

Interval Tested 3356-3397 Zone Tested LKC E-F  
 Anchor Length 41 Drill Pipe Run 3318 Mud Wt. 8.9  
 Top Packer Depth 3351 Drill Collars Run 30 Vis 55  
 Bottom Packer Depth 3356 Wt. Pipe Run - WL 8.4  
 Total Depth 3397 Chlorides 3000 ppm System LCM 1#

Blow Description IFP - WEAK TO A STRONG BLOW IN 25 min  
ISIP - NO BLOW  
FFP - WEAK TO A FAIR BLOW 1/2" TO 5" BLOW  
FSIP - NO BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>MW</u>				
<u>180</u>	<u>WATER</u>				

Rec Total 250 BHT 107 Gravity - API RW .09 @ 65 °F Chlorides 93000 ppm

(A) Initial Hydrostatic 1598  Test 1150 T-On Location 1030  
 (B) First Initial Flow 23  Jars - T-Started 1130  
 (C) First Final Flow 90  Safety Joint - T-Open 1400  
 (D) Initial Shut-In 656  Circ Sub - T-Pulled 1630  
 (E) Second Initial Flow 96  Hourly Standby - T-Out 1812  
 (F) Second Final Flow 141  Mileage 53RT 82.15 Comments -  
 (G) Final Shut-In 605  Sampler -  
 (H) Final Hydrostatic 1570  Straddle -  
 Ruined Shale Packer -

Initial Open 30  Shale Packer -  Ruined Packer -  
 Initial Shut-In 45  Extra Packer -  Extra Copies -  
 Final Flow 30  Extra Recorder - Sub Total 0  
 Final Shut-In 45  Day Standby - Total 1232.15  
 Accessibility - MP/DST Disc't -  
 Sub Total 1232.15

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGN *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. 51647

Well Name & No. URBAN BROTHERS # 1-24 Test No. 2 Date 2-7-13  
 Company Downing-Nelson Oil Co, Inc Elevation 2007 KB 1999 GL  
 Address PO Box 1019 Hays, Ko 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery rig 4  
 Location: Sec. 24 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ko

Interval Tested 3446-3500 Zone Tested LKC I,J,K  
 Anchor Length 54 Drill Pipe Run 3413 Mud Wt. 8.7  
 Top Packer Depth 3441 Drill Collars Run 30 Vis 80  
 Bottom Packer Depth 3446 Wt. Pipe Run - WL 8.4  
 Total Depth 3500 Chlorides 3000 ppm System LCM 1#  
 Blow Description I FP - Weak Blow thru-out 1/4" Blow  
I SIP - NO Blow  
F FP - surface Blow thru-out  
F SIP - NO Blow

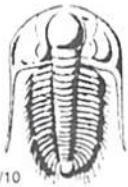
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>0 CM</u>	<u>6</u>		<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 96 Gravity - API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic <u>1667</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0315</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>0345</u>
(C) First Final Flow <u>15</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0530</u>
(D) Initial Shut-In <u>43</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>0730</u>
(E) Second Initial Flow <u>18</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0937</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>82.15</u>	Comments
(G) Final Shut-In <u>37</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1649</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1232.15</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1232.15</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.



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51648

4/10

Well Name & No. Urban Brothers #1-24 Test No. 3 Date 2-7-13  
 Company Downing-Nelson Oil Co Inc Elevation 2007 KB 1999 GL  
 Address PO Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery rig 4  
 Location: Sec. 24 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ks

Interval Tested 3484-3553 Zone Tested Comp. sd.  
 Anchor Length 69 Drill Pipe Run 3444 Mud Wt. 8.9  
 Top Packer Depth 3479 Drill Collars Run 30 Vis 70  
 Bottom Packer Depth 3484 Wt. Pipe Run — WL 8  
 Total Depth 3553 Chlorides 3200 ppm System LCM 1#  
 Blow Description IFP - Weak Blow thru-out 1/4" To 3/4" Blow  
ISIP - NO Blow  
FFP - Weak Blow thru-out 3/4" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>50CM</u>	<u>5</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 10 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1666</u>	<input checked="" type="checkbox"/> Test 1150	T-On Location <u>1945</u>
(B) First Initial Flow <u>17</u>	<input type="checkbox"/> Jars _____	T-Started <u>2000</u>
(C) First Final Flow <u>23</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>2115</u>
(D) Initial Shut-In <u>47</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>2315</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0046</u>
(F) Second Final Flow <u>25</u>	<input checked="" type="checkbox"/> Mileage <u>82.15</u>	Comments _____
(G) Final Shut-In <u>42</u>	<input type="checkbox"/> Sampler _____	_____
(H) Final Hydrostatic <u>1648</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1232.15</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1232.15</u>	

Approved By \_\_\_\_\_ Our Representative RAY Schwager *Thank you*

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