



KANSAS CORPORATION COMMISSION 1075109  
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 # 30717  
Name: Downing-Nelson Oil Co Inc  
Address 1: PO BOX 1019  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: Ron Nelson  
Phone: ( 785 ) 621-2610  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Ron Nelson  
Purchaser: Coffleyville Resources

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SLOW  
 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 #: \_\_\_\_\_

02/06/2012	02/13/2012	02/14/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-21959-00-00  
Spot Description: \_\_\_\_\_  
W2 NW SE NW Sec. 9 Twp. 16 S. R. 17  East  West  
1650 Feet from  North /  South Line of Section  
1530 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rush  
Lease Name: Urban Well #: 1-9  
Field Name: Wildcat  
Producing Formation: LKC  
Elevation: Ground: 1945 Kelly Bushing: 1953  
Total Depth: 3640 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 1076 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: 18000 ppm Fluid volume: 400 bbls  
Dewatering method used: Evaporated  
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: Deanna Gerrits Date: 06/28/2012



1075109

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Urban Well #: 1-9  
 Sec. 9 Twp. 16 S. R. 17  East  West County: Rush

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Surface Pipe	12.25	8.625	23	1076	Common	400	2% Gel & 3% CC
Production Pipe	7.875	5.50	14	3639.35	EA/2	125	

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 (Amount and Kind of Material Used)	Depth
4	3540' to 3546'		

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3565.52</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. <u>04/21/2012</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>30</u>	Gas Mcf <u>10</u>	Water Bbls. <u>10</u> Gas-Oil Ratio <u>33</u> Gravity <u>33</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input checked="" type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Urban 1-9
Doc ID	1075109

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Urban 1-9
Doc ID	1075109

Tops

Name	Top	Datum
Top Anhydrite	1078'	+875
Base Anhydrite	1117'	+836
Topeka	2962'	-1009
Heebner	3192'	-1239
Toronto	3210'	-1257
LKC	3241'	-1255
BKC	3466'	-1513
Conglomerate Sand	3494'	-1544
Arbuckle	3529'	-1577

# QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 580

Date	Sec.	Twp.	Range	County	State	On Location	Finish
2-8-12	9	16	17	Rush	KS		5:15 AM
Lease	Urban	Well No.	1-9	Location: Loretta, KS - 2N to Ave. B, 1W to 30R			
Contractor	Discovery # 3			Owner: M/S W/S			
Type Job	Surface			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			
Hole Size	12 1/4"	T.D.	1078'	Charge To: Downing - Nelson			
Csg.	8 5/8"	Depth	1076.10'	Street			
Tbg. Size		Depth		City			
Tool		Depth		State			
Cement Left in Csg.	42.53'	Shoe Joint	42.53'	The above was done to satisfaction and supervision of owner agent or contractor.			
Meas Line		Displace	65 7/8 BLS	Cement Amount Ordered 400 SX Common 3% CC			
<b>EQUIPMENT</b>				2% Gel			
Pumptrk	15	No.	Cementor	Common 400			
			Helper	MATT			
Bulktrk	13	No.	Driver	Poz. Mix			
			Driver	JASON			
Bulktrk	14	No.	Driver	Gel. 8			
			Driver	RICK			
<b>JOB SERVICES &amp; REMARKS</b>				Calcium 14			
Remarks:	Cement did Circulate.			Hulls			
Rat Hole				Salt			
Mouse Hole				Flowseal			
Centralizers				Kol-Seal			
Baskets				Mud CLR 48			
D/V or Port Collar				CFL-117 or CD110 CAF 38			
				Sand			
				Handling 422			
				Mileage			
<b>QUALITY OILWELL CEMENTING</b>				<b>FLOAT EQUIPMENT</b>			
				Guide Shoe			
				Centralizer			
				Baskets			
				AFU Inserts			
				Float Shoe			
				Latch Down			
				1- Baffle plate			
				Rubber plug			
				Pumptrk Charge 1 day Surface			
				Mileage 27			
Signature: John Kachler				Tax			
				Discount			
				Total Charge			

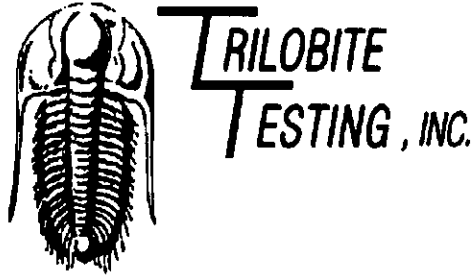
# SWIFT Services, Inc.

DATE 2-15-12 PAGE NO.

WELL NO. # 1-9 LEASE Urban JOB TYPE Longstring TICKET NO. 21406  
 - Nelson

TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
			T	C	TUBING	CASING	
0030							on loc w/FE
							RTD 5640'
							5 1/2" x 14# x 3639' x 19'
							Cent 1, 3, 5, 7, 9, 11, 62
							Back 4
0230							Start FE
0410							Break Circ.
0435	2.5	7/5					Plug RV+MH 30/20 sks EA-2
0445	5	0				200	Start Mud Flush 12 bbl
	5	12/0				200	Start KCL Flush 20 bbl
	6	20/0				250	Start Cement 125 sks EA-2
0455		30					End Cement + Wash P+h Drop LD Plug
0500	6	0				200	Start Displacement
	5	61				250	Catch Cement
		88.5				700/1400	Land Plug
							Release Pressure Float Hold

Thank you  
 Nick, Josh F, & Doug



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing

**Urban #1-9**

**9-16s-17w Rush,KS**

Start Date: 2012.02.11 @ 10:10:53

End Date: 2012.02.11 @ 16:58:47

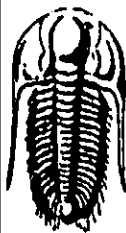
Job Ticket #: 46841                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.20 @ 14:27:19



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46841

DST#: 1

ATTN: Al Dow ning

Test Start: 2012.02.11 @ 10:10:53

## GENERAL INFORMATION:

Formation: **Plattsmouth**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 12:30:18

Time Test Ended: 16:58:47

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3123.00 ft (KB) To 3140.00 ft (KB) (TVD)**

Total Depth: **3140.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **1953.00 ft (KB)**

**1945.00 ft (CF)**

KB to GR/CF: **8.00 ft**

Serial #: **6625**

Inside

Press@RunDepth: **34.49 psig @ 3124.00 ft (KB)**

Start Date: **2012.02.11**

End Date:

2012.02.11

Capacity: **8000.00 psig**

Last Calib.: **2012.02.11**

Start Time: **10:10:53**

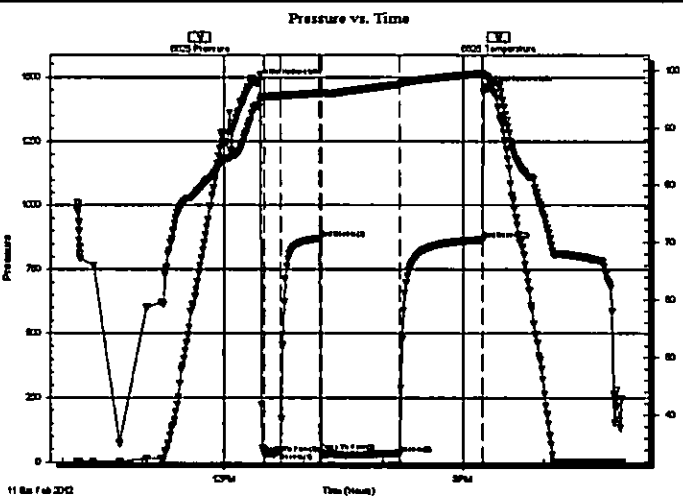
End Time:

16:58:47

Time On Btrr: **2012.02.11 @ 12:24:18**

Time Off Btrr: **2012.02.11 @ 15:17:47**

TEST COMMENT: 15-IFP-strg bl , GTS in 12 min  
30-ISIP-no bl  
60-FFP-strg bl GTS  
60-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1477.30	93.75	Initial Hydro-static
6	32.99	95.45	Open To Flow (1)
19	36.32	95.51	Shut-In(1)
48	871.17	96.03	End Shut-In(1)
49	38.63	96.02	Open To Flow (2)
108	34.49	97.57	Shut-In(2)
170	865.63	99.46	End Shut-In(2)
174	1452.36	98.83	Final Hydro-static

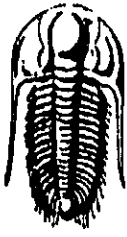
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MGO 10%G20%M70%O	0.14
60.00	MGO 10%G10%M80%O	0.84

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	5.00	30.78





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46841

DST#: 1

ATTN: Al Downing

Test Start: 2012.02.11 @ 10:10:53

### GENERAL INFORMATION:

Formation: **Plattsmouth**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:30:18  
Time Test Ended: 16:58:47

Test Type: Conventional Bottom Hole (Initial)  
Tester: Ray Schwager  
Unit No: 42

Interval: **3123.00 ft (KB) To 3140.00 ft (KB) (TVD)**  
Total Depth: 3140.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1953.00 ft (KB)  
1945.00 ft (CF)  
KB to GR/CF: 8.00 ft

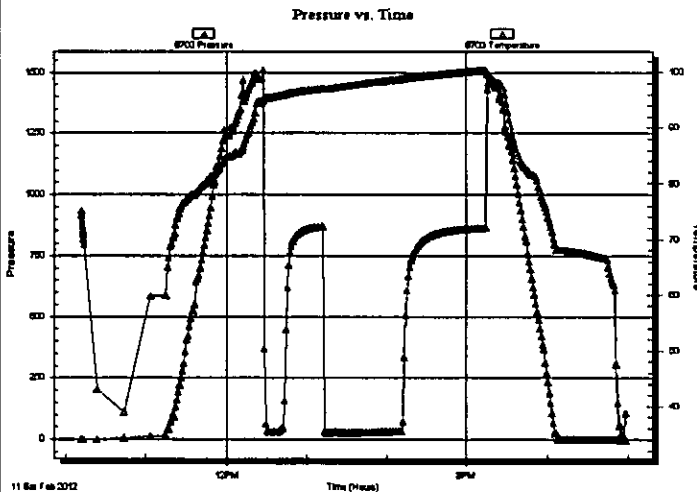
Serial #: 8700

Outside

Press@RunDepth: psig @ 3124.00 ft (KB)  
Start Date: 2012.02.11 End Date:  
Start Time: 10:11:51 End Time:

Capacity: 8000.00 psig  
Last Calib.: 2012.02.11  
Time On Btm:  
Time Off Btm:

**TEST COMMENT:** 15-IFP-strg bl , GTS in 12 min  
30-ISIP-no bl  
60-FFP-strg bl GTS  
60-FSIP-no bl



### PRESSURE SUMMARY

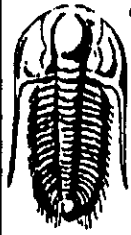
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
10.00	MGO 10%G20%M70%O	0.14
60.00	MGO 10%G10%M80%O	0.84

### Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.25	5.00	30.78
Last Gas Rate	0.25	1.00	24.43
Max. Gas Rate	0.25	5.00	30.78



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46841

**DST#: 1**

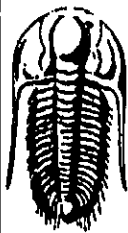
ATTN: Al Downing

Test Start: 2012.02.11 @ 10:10:53

### Tool Information

Drill Pipe:	Length: 3133.00 ft	Diameter: 3.80 inches	Volume: 43.95 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 43.95 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3123.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	17.00 ft			
Tool Length:	38.00 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			3103.00	
Shut In Tool	5.00			3108.00	
Hydraulic tool	5.00			3113.00	
Packer	5.00			3118.00	21.00 Bottom Of Top Packer
Packer	5.00			3123.00	
Stubb	1.00			3124.00	
Recorder	0.00	6625	Inside	3124.00	
Recorder	0.00	8700	Outside	3124.00	
Perforations	13.00			3137.00	
Bullnose	3.00			3140.00	17.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46841

DST#: 1

ATTN: Al Downing

Test Start: 2012.02.11 @ 10:10:53

**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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.06 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2800.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
10.00	MGO 10%G20%M70%O	0.140
60.00	MGO 10%G10%M80%O	0.842

Total Length: 70.00 ft      Total Volume: 0.982 bbl

Num Fluid Samples: 0

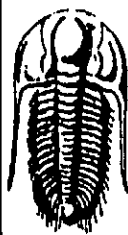
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**GAS RATES**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46841

DST#: 1

ATTN: Al Downing

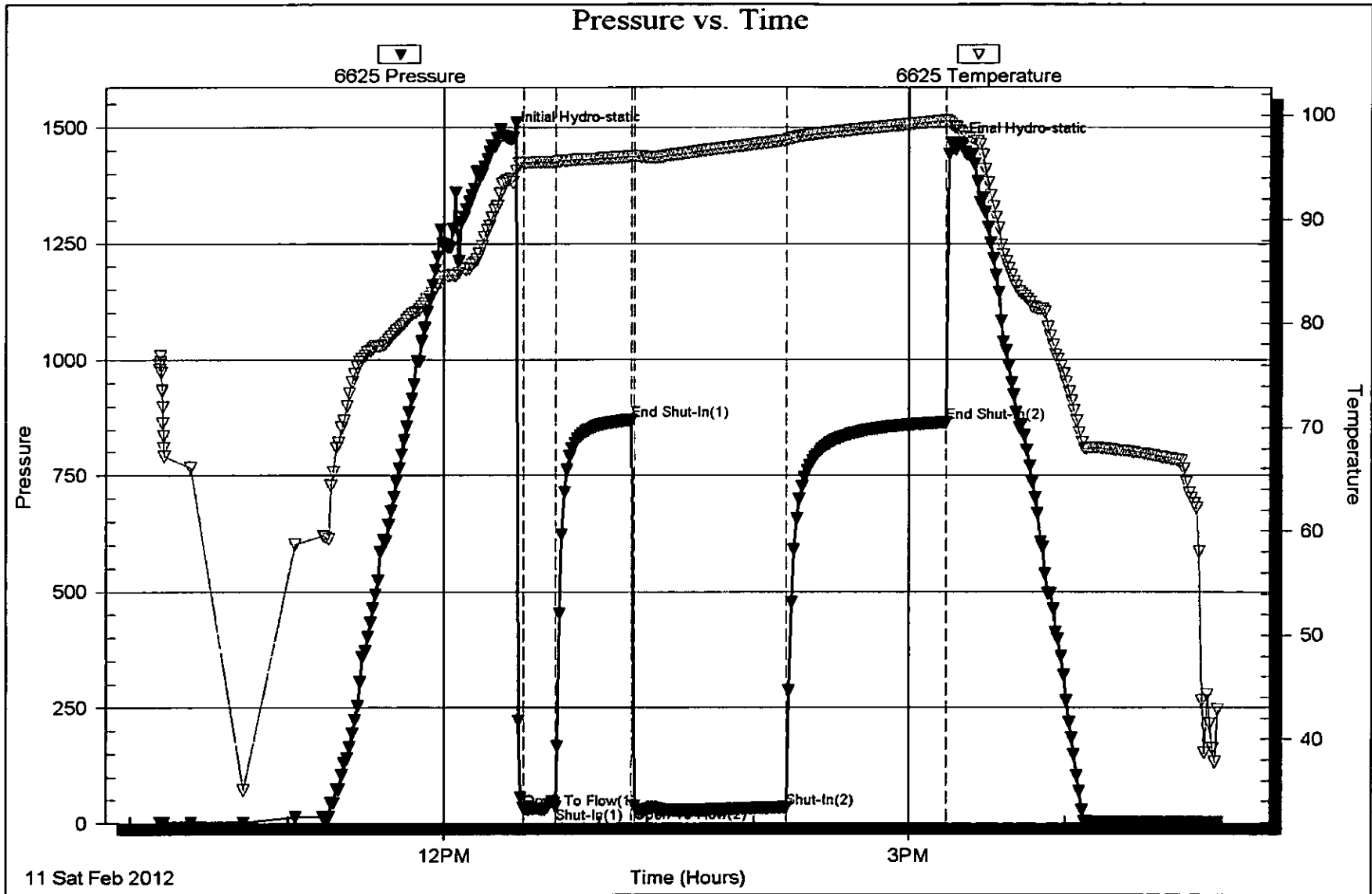
Test Start: 2012.02.11 @ 10:10:53

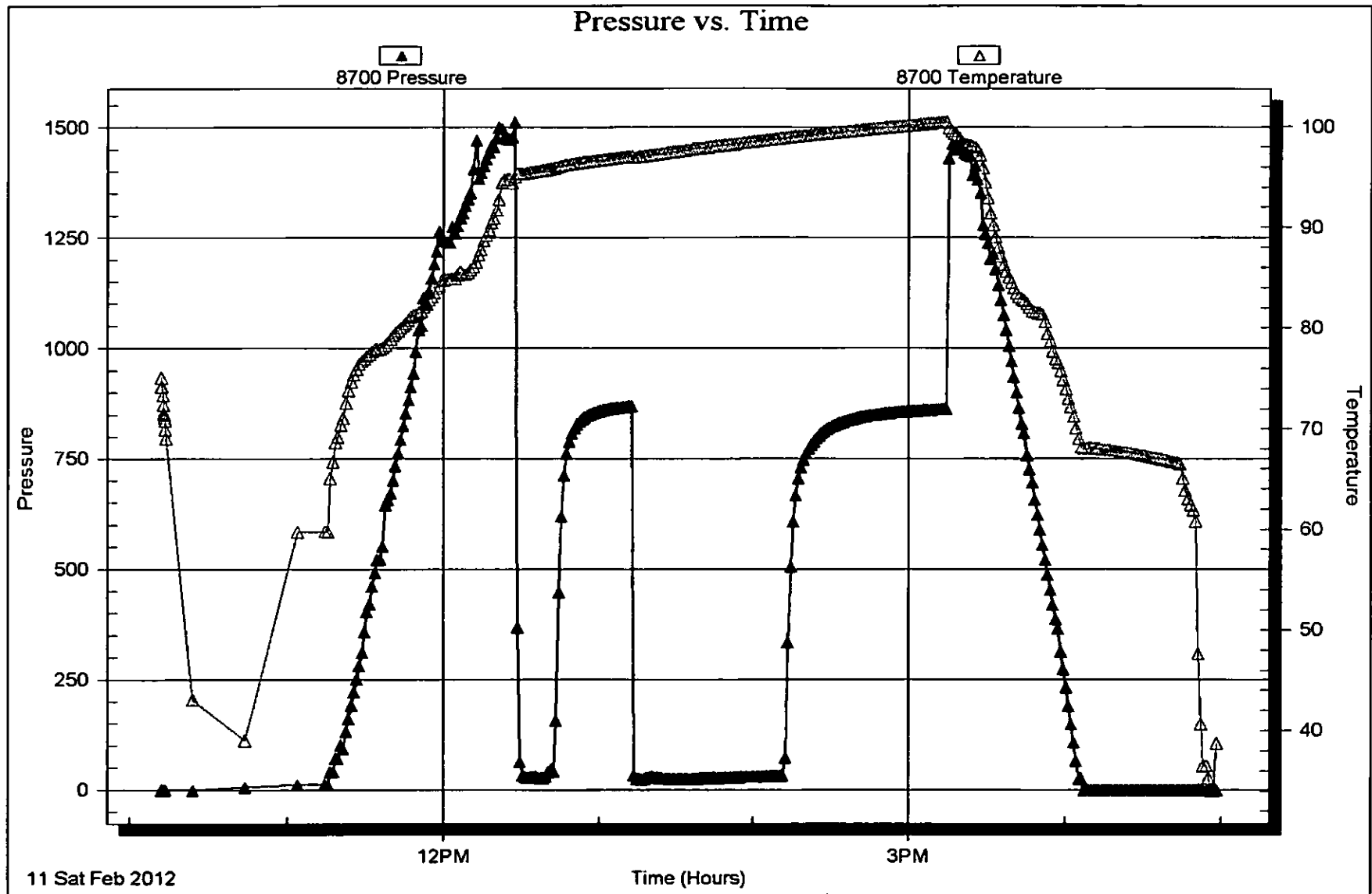
## Gas Rates Information

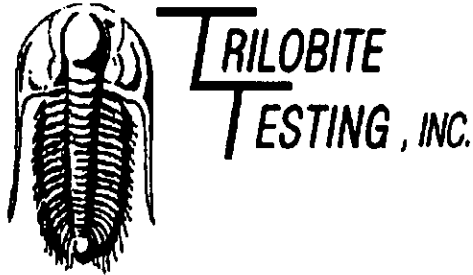
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	10	0.25	5.00	30.78
2	20	0.25	3.00	27.60
2	30	0.25	1.00	24.43
2	40	0.25	1.00	24.43







## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing

**Urban #1-9**

**9-16s-17w Rush,KS**

Start Date: 2012.02.12 @ 16:05:11

End Date: 2012.02.12 @ 21:45:05

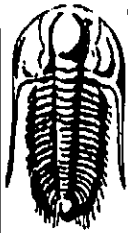
Job Ticket #: 46842                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Downing-Nelson Oil Co Inc    9-16s-17w Rush,KS    Urban #1-9    DST # 2    LKC H-J    2012.02.12



**TRILOBITE TESTING, INC**

**DRILL STEM TEST REPORT**

Dow ning-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46842

**DST#: 2**

ATTN: Al Dow ning

Test Start: 2012.02.12 @ 16:05:11

**GENERAL INFORMATION:**

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:36

Time Test Ended: 21:45:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: **3356.00 ft (KB) To 3430.00 ft (KB) (TVD)**

Total Depth: **3430.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1953.00 ft (KB)

1945.00 ft (CF)

KB to GR/CF: 8.00 ft

**Serial #: 6625** Inside

Press@RunDepth: 24.17 psig @ 3362.00 ft (KB)

Start Date: 2012.02.12

End Date: 2012.02.12

Capacity: 8000.00 psig

Last Calib.: 2012.02.12

Start Time: 16:05:11

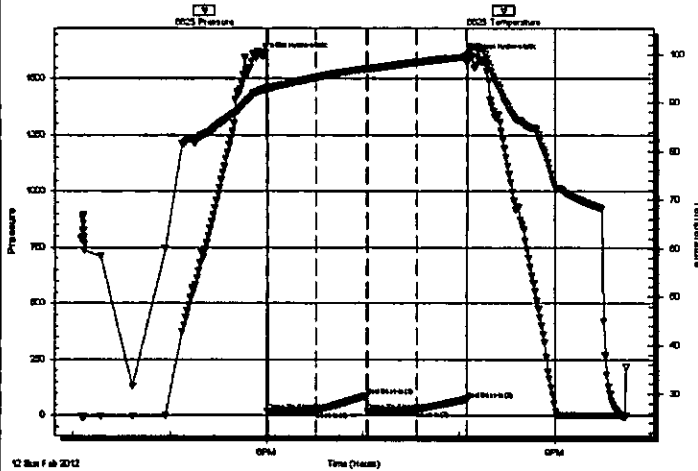
End Time: 21:45:05

Time On Btm: 2012.02.12 @ 17:57:36

Time Off Btm: 2012.02.12 @ 20:08:36

**TEST COMMENT:** 30-IFP-w k bl 1/4"to3/4"bl  
30-ISIP-no bl  
30-FFP-w k bl 1/4"to 3/4"bl  
30-FSIP-no bl

**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1600.22	92.61	Initial Hydro-static
3	17.28	92.81	Open To Flow (1)
33	18.94	95.16	Shut-in(1)
65	87.84	96.93	End Shut-in(1)
66	17.89	96.94	Open To Flow (2)
96	24.17	98.29	Shut-in(2)
128	72.18	99.49	End Shut-in(2)
131	1594.52	101.58	Final Hydro-static

**Recovery**

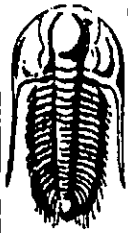
Length (ft)	Description	Volume (bbl)
0.00	110'GIP	0.00
10.00	SO&GCM 5%G4%O91%M	0.14

\* Recovery from multiple tests

**Gas Rates**

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





# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

9-16s-17w Rush, KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46842

DST#: 2

ATTN: Al Downing

Test Start: 2012.02.12 @ 16:05:11

### GENERAL INFORMATION:

Formation: LKC H-J

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:00:36

Time Test Ended: 21:45:05

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Interval: 3356.00 ft (KB) To 3430.00 ft (KB) (TVD)

Reference Elevations: 1953.00 ft (KB)

Total Depth: 3430.00 ft (KB) (TVD)

1945.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8700

Outside

Press@RunDepth: psig @ 3362.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.12 End Date: 2012.02.12

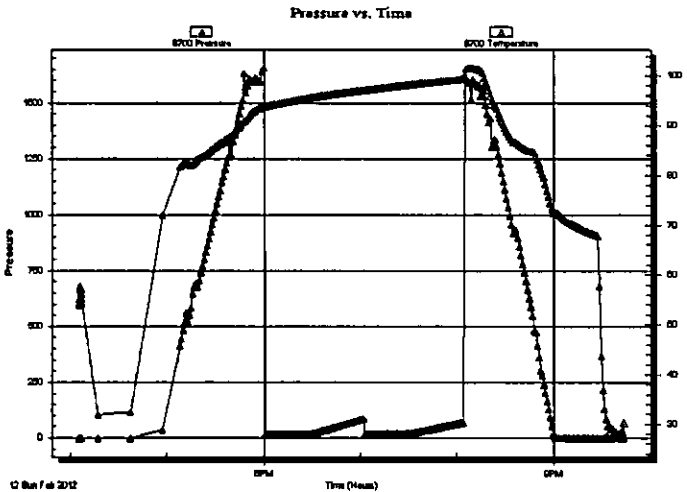
Last Calib.: 2012.02.12

Start Time: 16:05:37 End Time: 21:44:01

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k bl 1/4"to3/4"bl  
30-ISIP-no bl  
30-FFP-w k bl 1/4"to 3/4"bl  
30-FSIP-no bl



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

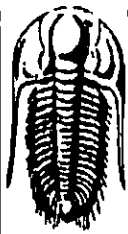
### Recovery

Length (ft)	Description	Volume (bbl)
0.00	110'GIP	0.00
10.00	SO&GCM 5%G4%O91%M	0.14

\* Recovery from multiple tests

### Gas Rates

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



**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46842

DST#: 2

ATTN: Al Downing

Test Start: 2012.02.12 @ 16:05:11

### Tool Information

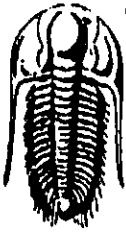
Drill Pipe:	Length: 3357.00 ft	Diameter: 3.80 inches	Volume: 47.09 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 47.09 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3356.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	74.00 ft			
Tool Length:	95.00 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			3336.00	
Shut In Tool	5.00			3341.00	
Hydraulic tool	5.00			3346.00	
Packer	5.00			3351.00	21.00 Bottom Of Top Packer
Packer	5.00			3356.00	
Stubb	1.00			3357.00	
Perforations	5.00			3362.00	
Recorder	0.00	6625	Inside	3362.00	
Recorder	0.00	8700	Outside	3362.00	
Blank Spacing	65.00			3427.00	
Bullnose	3.00			3430.00	74.00 Bottom Packers & Anchor

**Total Tool Length: 95.00**



**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46842

DST#: 2

ATTN: Al Downing

Test Start: 2012.02.12 @ 16:05:11

**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: 52.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.10 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
0.00	110'GIP	0.000
10.00	SO&GCM 5%G4%O91%M	0.140

Total Length: 10.00 ft Total Volume: 0.140 bbl

Num Fluid Samples: 0

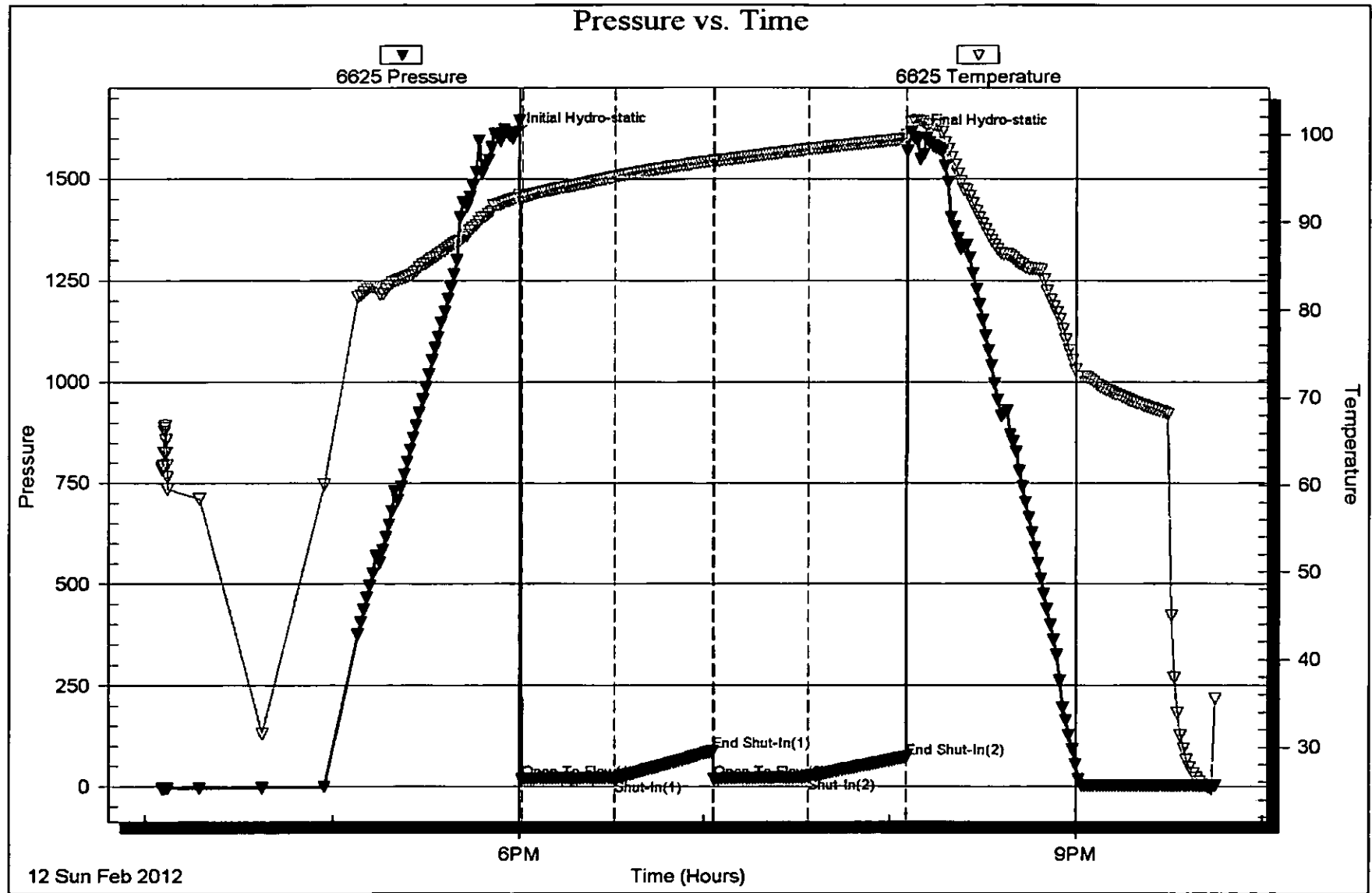
Num Gas Bombs: 0

Serial #:

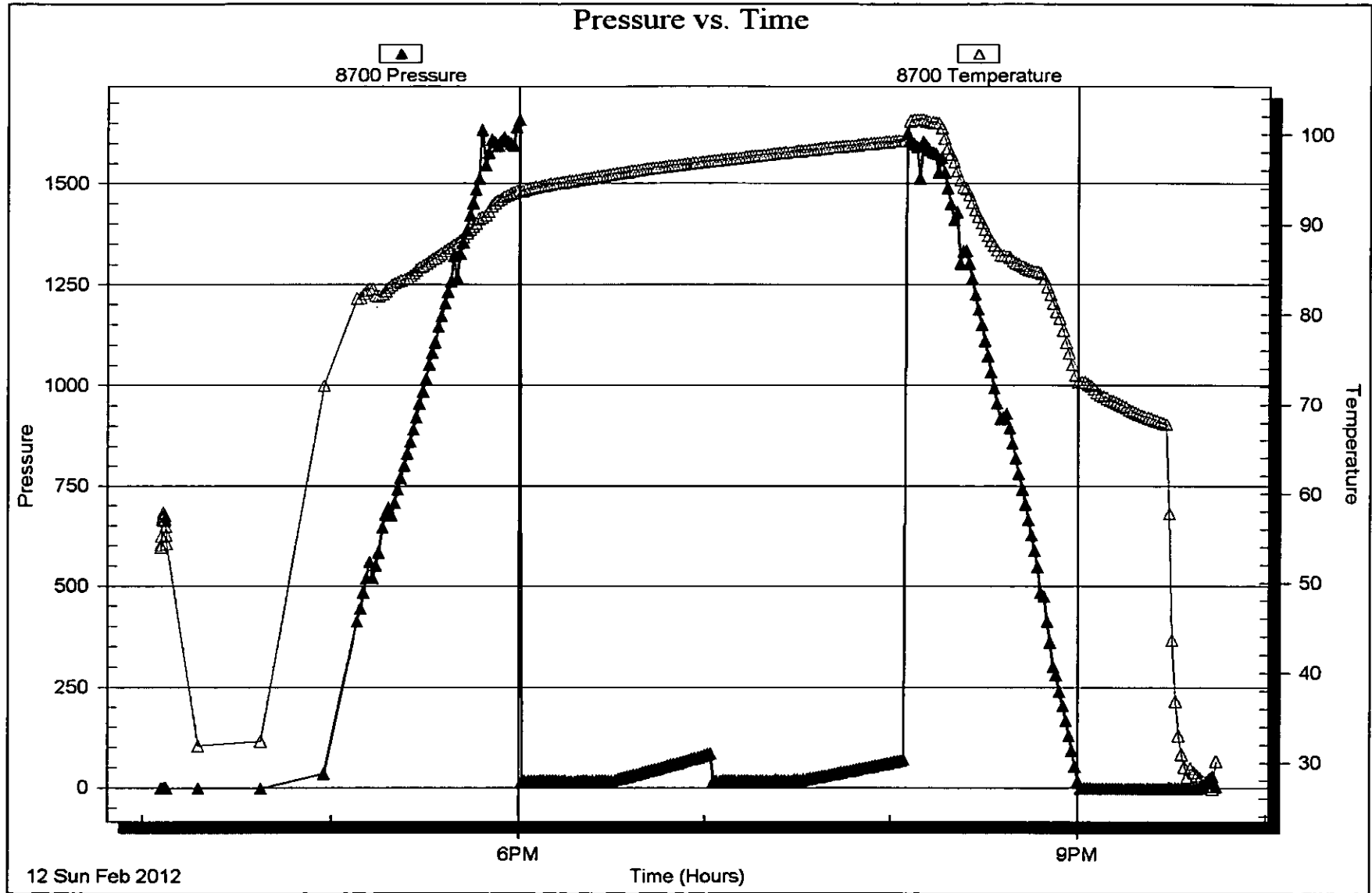
Laboratory Name:

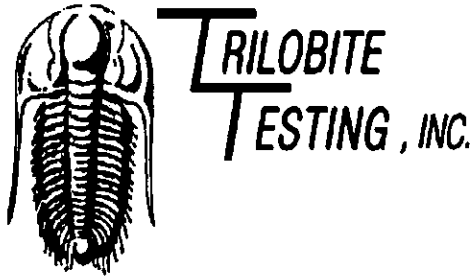
Laboratory Location:

Recovery Comments:



12 Sun Feb 2012





## DRILL STEM TEST REPORT

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

PO Box1019  
Hays KS 67601

ATTN: Al Downing

**Urban #1-9**

**9-16s-17w Rush,KS**

Start Date: 2012.02.13 @ 09:00:50

End Date: 2012.02.13 @ 16:32:14

Job Ticket #: 46843                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.20 @ 14:26:37

Downing-Nelson Oil Co Inc    9-16s-17w Rush,KS    Urban #1-9    DST # 3    Congl Sd    2012.02.13



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

9-16s-17w Rush, KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46843

DST#: 3

ATTN: Al Downing

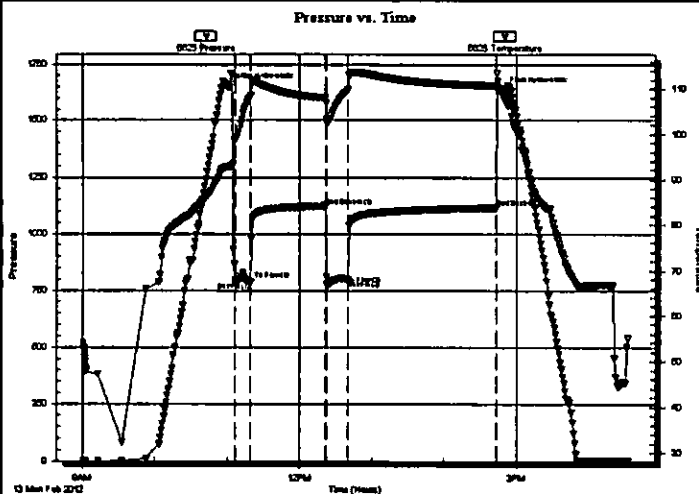
Test Start: 2012.02.13 @ 09:00:50

## GENERAL INFORMATION:

Formation: **Congl Sd**  
 Deviated: **No** Whipstock: **ft (KB)** Test Type: **Conventional Bottom Hole (Reset)**  
 Time Tool Opened: **11:06:45** Tester: **Ray Schwager**  
 Time Test Ended: **16:32:14** Unit No: **42**  
 Interval: **3460.00 ft (KB) To 3525.00 ft (KB) (TVD)** Reference Elevations: **1953.00 ft (KB)**  
 Total Depth: **3525.00 ft (KB) (TVD)** **1945.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **8.00 ft**

Serial #: **6625** Inside  
 Press@RunDepth: **797.16 psig @ 3466.00 ft (KB)** Capacity: **8000.00 psig**  
 Start Date: **2012.02.13** End Date: **2012.02.13** Last Calib.: **2012.02.13**  
 Start Time: **09:00:50** End Time: **16:32:14** Time On Btm: **2012.02.13 @ 11:01:15**  
 Time Off Btm: **2012.02.13 @ 14:48:44**

TEST COMMENT: 15-IFP-strg bl GTS in 2 min  
 60-ISIP-1" bl bk  
 20-FFP-GTS  
 120-FSIP-1" bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1648.99	92.76	Initial Hydro-static
6	798.50	98.97	Open To Flow (1)
19	786.99	108.32	Shut-in (1)
81	1122.53	108.02	End Shut-in (1)
82	776.95	103.08	Open To Flow (2)
99	797.16	109.71	Shut-in (2)
222	1115.55	110.67	End Shut-in (2)
228	1632.76	108.81	Final Hydro-static

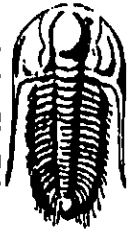
## Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud	0.70

\* Recovery from multiple tests

## Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	240.00	3973.69
Last Gas Rate	0.75	280.00	4598.49
Max. Gas Rate	0.75	280.00	4598.49



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

9-16s-17w Rush, KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46843

DST#: 3

ATTN: Al Downing

Test Start: 2012.02.13 @ 09:00:50

## GENERAL INFORMATION:

Formation: **Congl Sd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:06:45

Time Test Ended: 16:32:14

Interval: **3460.00 ft (KB) To 3525.00 ft (KB) (TVD)**

Total Depth: **3525.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schwager

Unit No: 42

Reference Elevations: 1953.00 ft (KB)

1945.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: **8700** Outside

Press@RunDepth: psig @ 3466.00 ft (KB)

Start Date: 2012.02.13

End Date:

2012.02.13

Capacity: 8000.00 psig

Last Calib.:

2012.02.13

Start Time: 09:01:19

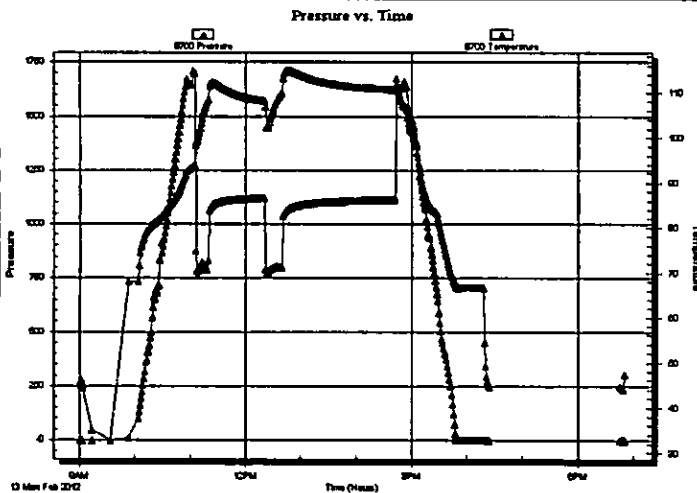
End Time:

18:51:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IFP-strg bl GTS in 2 min  
60-ISIP-1" bl bk  
20-FFP-GTS  
120-FSIP-1" bl bk



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)
50.00	mud	0.70

\* Recovery from multiple tests

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.75	240.00	3973.69
Last Gas Rate	0.75	280.00	4598.49
Max. Gas Rate	0.75	280.00	4598.49





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46843

**DST#: 3**

ATTN: Al Dow ning

Test Start: 2012.02.13 @ 09:00:50

### Tool Information

Drill Pipe:	Length: 3452.00 ft	Diameter: 3.80 inches	Volume: 48.42 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 48.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3460.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3440.00	
Shut in Tool	5.00			3445.00	
Hydraulic tool	5.00			3450.00	
Packer	5.00			3455.00	21.00 Bottom Of Top Packer
Packer	5.00			3460.00	
Stubb	1.00			3461.00	
Perforations	5.00			3466.00	
Recorder	0.00	6625	Inside	3466.00	
Recorder	0.00	8700	Outside	3466.00	
Blank Spacing	33.00			3499.00	
Perforations	23.00			3522.00	
Bullnose	3.00			3525.00	65.00 Bottom Packers & Anchor

**Total Tool Length: 86.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46843

**DST#: 3**

ATTN: Al Downing

Test Start: 2012.02.13 @ 09:00:50

## 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: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.11 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5800.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
50.00	mud	0.701

Total Length: 50.00 ft

Total Volume: 0.701 bbl

Num Fluid Samples: 0

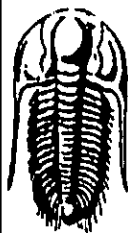
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**GAS RATES**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46843

DST#: 3

ATTN: Al Downing

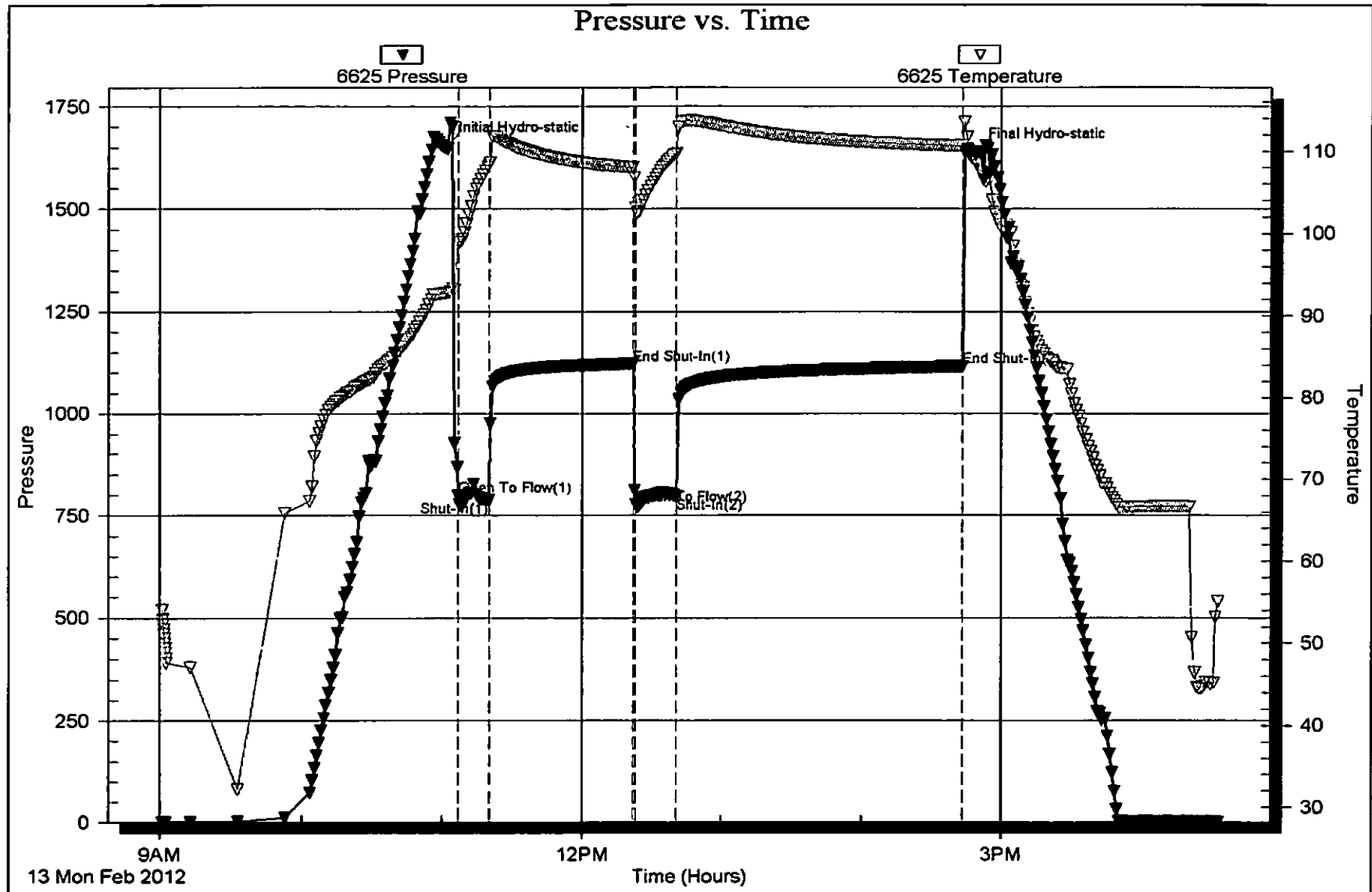
Test Start: 2012.02.13 @ 09:00:50

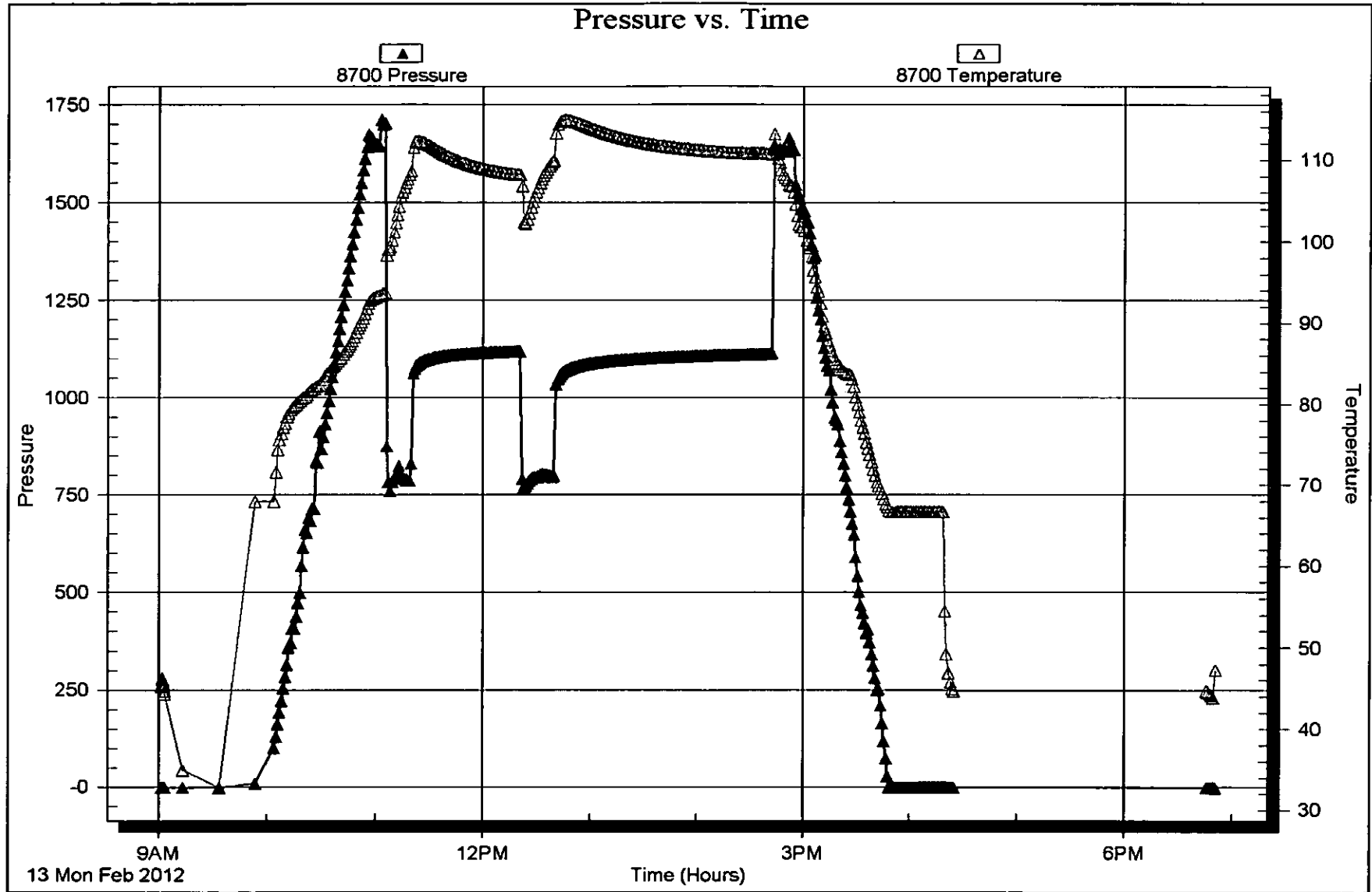
### Gas Rates Information

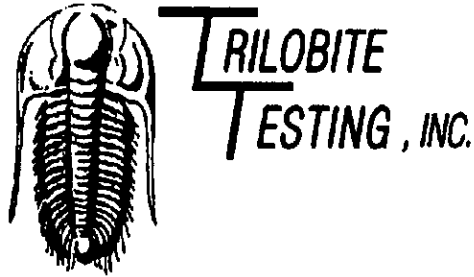
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
1	5	0.75	240.00	3973.69
1	5	0.75	240.00	3973.69
1	5	0.75	240.00	3973.69
1	15	0.75	250.00	4129.89
2	5	0.75	250.00	4129.89
2	10	0.75	250.00	4129.89
2	15	0.75	280.00	4598.49







## DRILL STEM TEST REPORT

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

PO Box1019  
Hays KS 67601

ATTN: Al Downing

**Urban #1-9**

**9-16s-17w Rush,KS**

Start Date: 2012.02.13 @ 23:15:07

End Date: 2012.02.14 @ 06:30:01

Job Ticket #: 46844                      DST #: 4

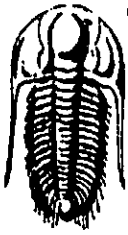
Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.02.20 @ 14:23:10

Downing-Nelson Oil Co Inc    9-16s-17w Rush,KS    Urban #1-9    DST # 4    Arbuckle    2012.02.13



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box 1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46844

**DST#: 4**

ATTN: Al Dow ning

Test Start: 2012.02.13 @ 23:15:07

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 01:18:32

Time Test Ended: 06:30:01

Test Type: **Conventional Bottom Hole (Reset)**

Tester: **Ray Schwager**

Unit No: **42**

Interval: **3538.00 ft (KB) To 3544.00 ft (KB) (TVD)**

Reference Elevations: **1953.00 ft (KB)**

Total Depth: **3544.00 ft (KB) (TVD)**

**1945.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

**KB to GR/CF: 8.00 ft**

**Serial #: 6625**

**Inside**

Press@RunDepth: **50.43 psig @ 3539.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.02.13**

End Date: **2012.02.14**

Last Calib.: **2012.02.14**

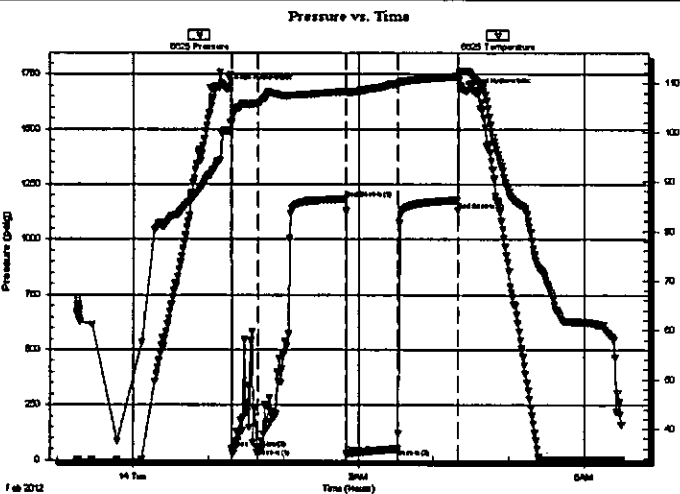
Start Time: **23:15:07**

End Time: **06:30:01**

Time On Btm: **2012.02.14 @ 01:14:32**

Time Off Btm: **2012.02.14 @ 04:25:31**

**TEST COMMENT:** 45-IFP-w k to a gd bl 1/2" to 8" bl  
45-ISIP-no bl 1st 20 min, then surface bl  
45-FFP-w k to strg in 10 min  
45-FSIP-surface bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.64	100.20	Initial Hydro-static
4	49.97	101.98	Open To Flow (1)
25	52.05	105.83	Shut-In(1)
95	1184.18	108.32	End Shut-In(1)
96	29.27	108.06	Open To Flow (2)
137	50.43	109.72	Shut-In(2)
185	1131.96	111.34	End Shut-In(2)
191	1674.47	112.39	Final Hydro-static

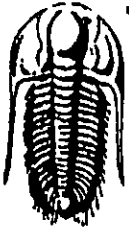
## Recovery

Length (ft)	Description	Volume (bbl)
0.00	650'GIP	0.00
70.00	CO	0.98
20.00	GMO 20%G15%M65%O	0.28

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**9-16s-17w Rush, KS**

PO Box1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46844

DST#: 4

ATTN: Al Dow ning

Test Start: 2012.02.13 @ 23:15:07

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:18:32

Time Test Ended: 06:30:01

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 42

Interval: **3538.00 ft (KB) To 3544.00 ft (KB) (TVD)**

Total Depth: 3544.00 ft (KB) (TVD)

Reference Elevations: 1953.00 ft (KB)

1945.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8700**

**Outside**

Press@RunDepth: psig @ 3539.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.02.13

End Date:

2012.02.14

Last Calib.:

2012.02.14

Start Time: 23:15:37

End Time:

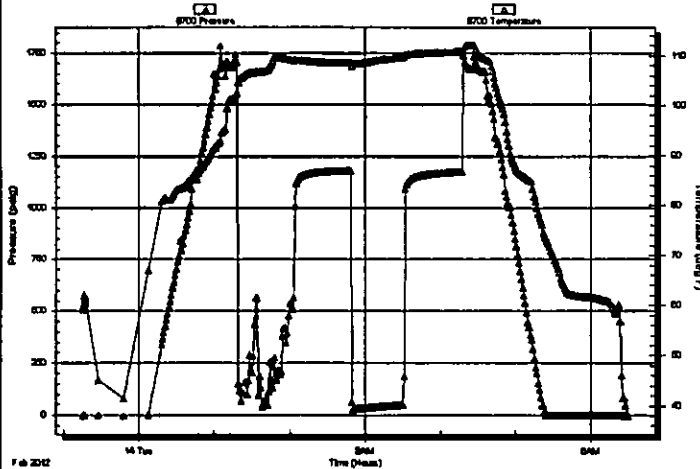
06:29:01

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-FF-w k to a gd bl 1/2" to 8" bl  
45-ISIP-no bl 1st 20 min,then surface bl  
45-FF-w k to strg in 10 min  
45-FSIP-surface bl bk

Pressure vs. Time



### PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation

### Recovery

Length (ft)	Description	Volume (bbl)
0.00	650'GIP	0.00
70.00	CO	0.98
20.00	GMO 20%G15%M65%O	0.28

\* Recovery from multiple tests

### Gas Rates

	Choke (Inches)	Pressure (psig)	Gas Rate (Mc/d)





**TRILOBITE  
TESTING, INC**

## DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co Inc

**9-16s-17w Rush,KS**

PO Box1019  
Hays KS 67601

**Urban #1-9**

Job Ticket: 46844

**DST#: 4**

ATTN: Al Dow ning

Test Start: 2012.02.13 @ 23:15:07

### Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 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: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.77 bbl</u>	Tool Chased 6.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3538.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	6.00 ft			
Tool Length:	27.00 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			3518.00	
Shut in Tool	5.00			3523.00	
Hydraulic tool	5.00			3528.00	
Packer	5.00			3533.00	21.00 Bottom Of Top Packer
Packer	5.00			3538.00	
Stubb	1.00			3539.00	
Recorder	0.00	6625	Inside	3539.00	
Recorder	0.00	8700	Outside	3539.00	
Perforations	2.00			3541.00	
Bullnose	3.00			3544.00	6.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>27.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

9-16s-17w Rush,KS

PO Box 1019  
Hays KS 67601

Urban #1-9

Job Ticket: 46844

DST#: 4

ATTN: Al Downing

Test Start: 2012.02.13 @ 23:15:07

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 25 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.16 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 5800.00 ppm		
Filter Cake: 1.00 inches		

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	650'GIP	0.000
70.00	CO	0.982
20.00	GMO 20%G15%M65%O	0.281

Total Length: 90.00 ft      Total Volume: 1.263 bbl

Num Fluid Samples: 0

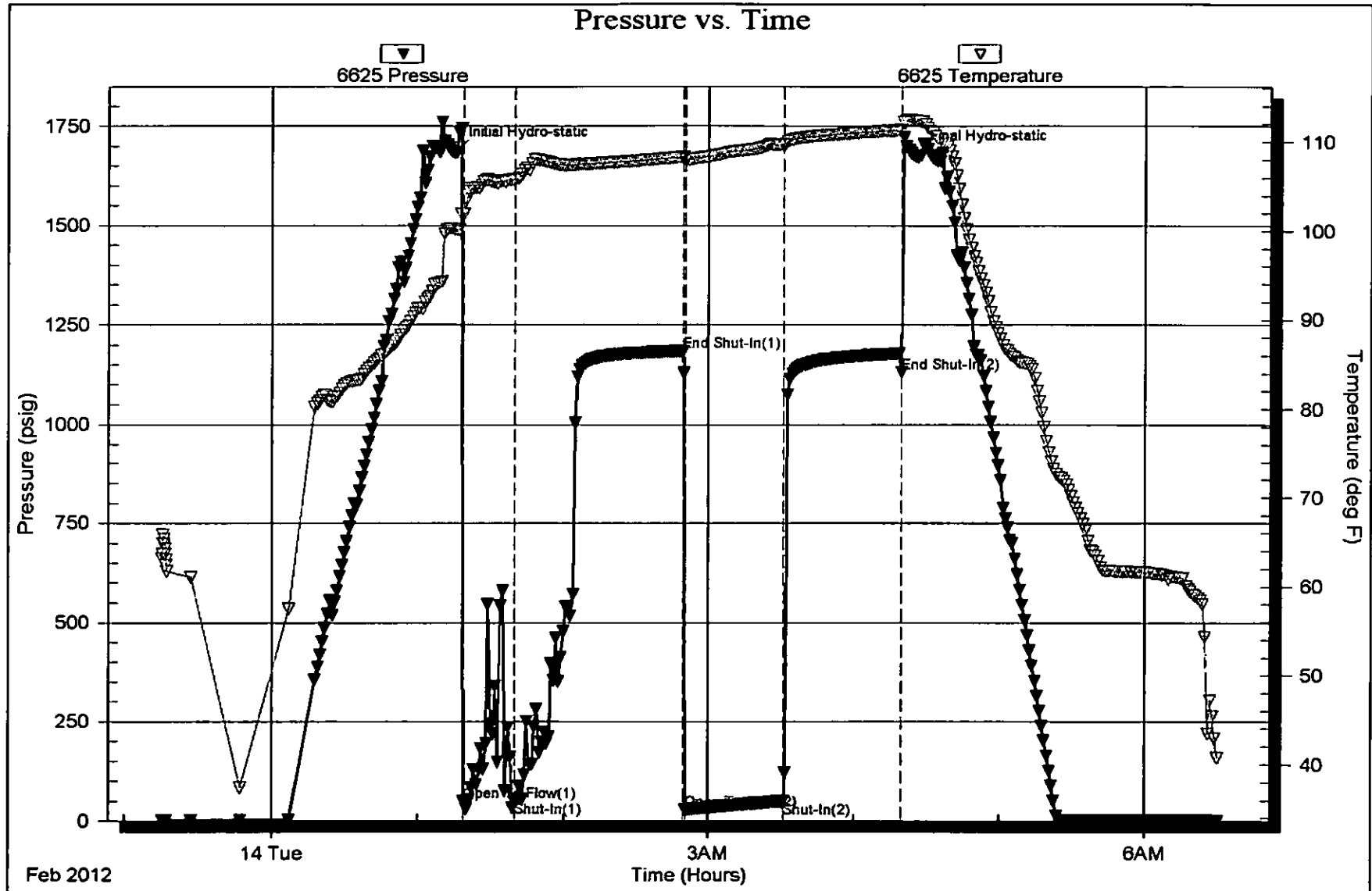
Num Gas Bombs: 0

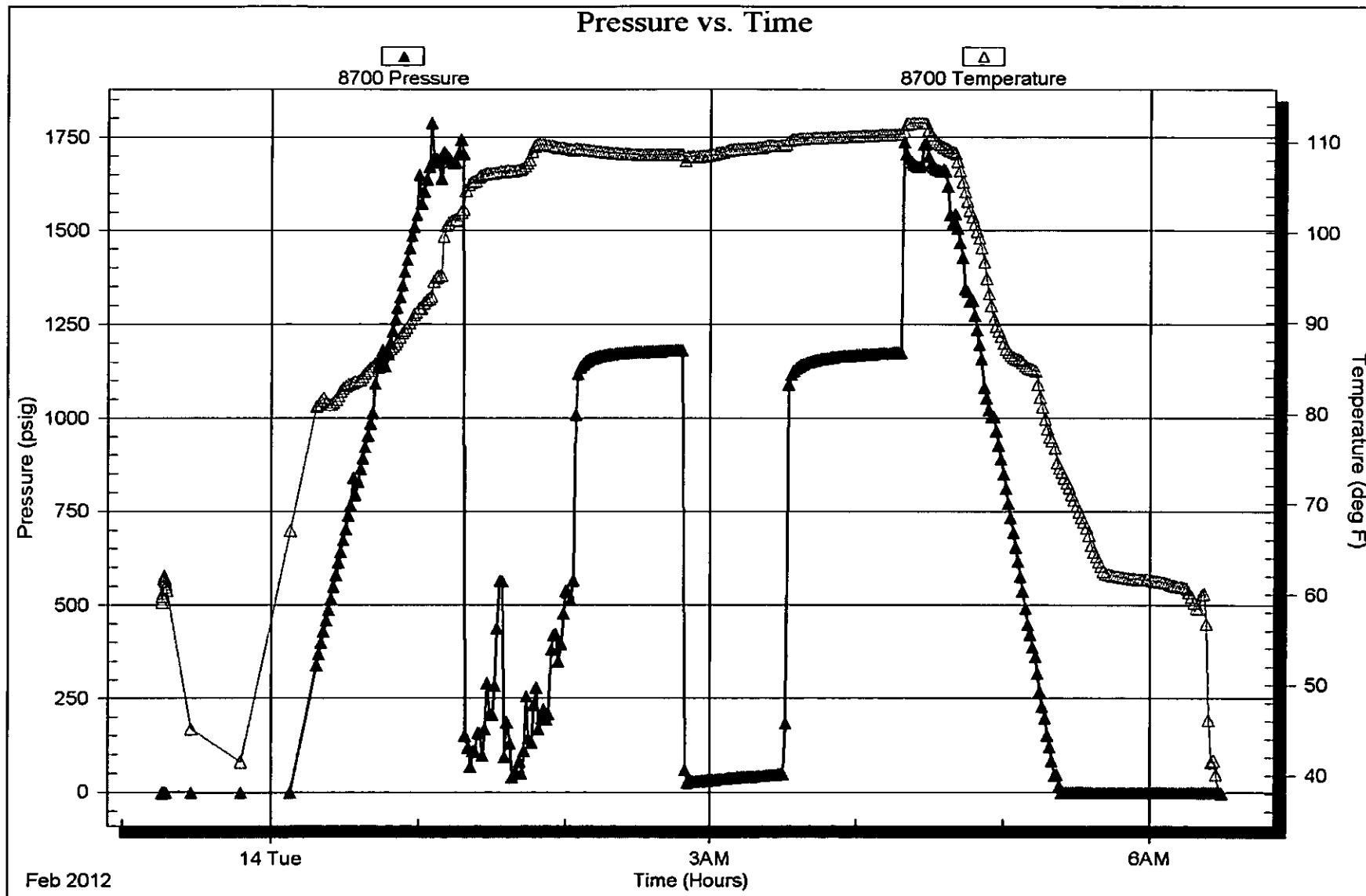
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: slid tool 6'to bottom







# TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 15 2012

## Test Ticket

NO. 46841

Well Name & No. Urban #1-9 Test No. 1 Date 2-11-12  
 Company Downing-Nelson Oil Co Inc Elevation 1953 KB 1945 GL  
 Address P.O. Box 1019 Hays Ko 67601  
 Co. Rep / Geo. AL Downing Rig Discovery 1193  
 Location: Sec. 9 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ko

Interval Tested 3123-3140 Zone Tested PLATTSMOUTH  
 Anchor Length 17 Drill Pipe Run 3133 Mud Wt. 9  
 Top Packer Depth 3118 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3123 Wt. Pipe Run - WL 8.2  
 Total Depth 3140 Chlorides 2800 ppm System LCM 2#

Blow Description IFP - STRONG BLOW GTS IN 12 MIN TO WALK TO GAUGE  
ISTP - NO BLOW  
FFP - GTS  
FSTP - NO BLOW

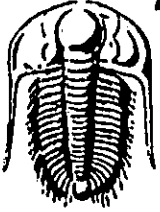
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>M60</u>	<u>10</u>	<u>70</u>	<u>20</u>	<u>0</u>
<u>60</u>	<u>M60</u>	<u>10</u>	<u>80</u>	<u>10</u>	<u>0</u>
<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>
<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>	<u>  </u>

Rec Total 70 BHT 99 Gravity 1125 API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic 1477  Test 1125 T-On Location 0900  
 (B) First Initial Flow 32  Jars    T-Started 1010  
 (C) First Final Flow 36  Safety Joint    T-Open 1225  
 (D) Initial Shut-In 871  Circ Sub    T-Pulled 1510  
 (E) Second Initial Flow 38  Hourly Standby    T-Out 1658  
 (F) Second Final Flow 34  Mileage 52 RT 72.80 Comments     
 (G) Final Shut-In 865  Sampler     
 (H) Final Hydrostatic 1452  Straddle     Ruined Shale Packer     
 Shale Packer     Ruined Packer     
 Extra Packer     Extra Copies     
 Extra Recorder    Sub Total 0  
 Day Standby    Total 1197.80  
 Accessibility    MP/DST Disc't     
 Sub Total 1197.80

Approved By    Our Representative Ray Schuman 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.

P.O. Box 362 • Hays, Kansas 67601 • (785) 625-4778

## GAS VOLUME REPORT

DNOc

Uehar #1-9

1

OPERATOR

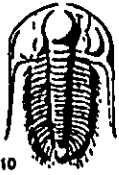
WELL NAME AND NO.

DST NO.

6TS, IN 12 MIN 2<sup>ND</sup> FLOW

Min.	Inch. of Water <u>PSIG</u>	Orifice Size	CF/D	Min.	Inch. of Water PSIG	Orifice Size	CF/D
10	5	1/4"	30,776				
20	3	1/4"	27,603				
30	1	1/4"	24,431				
40	1	1/4"	24,431				
50	1	1/4"	24,431				
60	1	1/4"	24,431				

Remarks:



# TRIOBITE TESTING INC.

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RECEIVED  
FEB 15 2012

## Test Ticket

NO. 46842

Well Name & No. Urban # 1-9 BY: \_\_\_\_\_ Test No. 2 Date 2-12-12  
 Company Downing-Nelson Oil Co Inc Elevation 1953 KB 1945 GL \_\_\_\_\_  
 Address PO Box 1019 Hays, Mo. 67601  
 Co. Rep / Geo. AL Downing Rig DISCOVERY 1193  
 Location: Sec. 9 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Mo

Interval Tested 3356-3430 Zone Tested LKC H-J  
 Anchor Length 74 Drill Pipe Run 3357 Mud Wt. 8.9  
 Top Packer Depth 3351 Drill Collars Run - Vis 52  
 Bottom Packer Depth 3356 Wt. Pipe Run - WL 8.2  
 Total Depth 3430 Chlorides 4000 ppm System LCM 1 1/2 #

Blow Description TEP - WEAK Blow 1/4" To 3/4" Blow  
ISIP - NO Blow  
FFP - WEAK Blow 1/4" To 3/4" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>110</u>	<u>6IP</u>				
<u>10</u>	<u>50 + 6CM</u>	<u>5</u>	<u>4</u>		<u>91</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

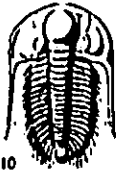
Rec Total 10 BHT 99 Gravity - API RW - @ - F Chlorides - ppm

(A) Initial Hydrostatic 1600  Test 1125' T-On Location 1545  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 1605  
 (C) First Final Flow 18  Safety Joint \_\_\_\_\_ T-Open 1800  
 (D) Initial Shut-In 87  Circ Sub \_\_\_\_\_ T-Pulled 2000  
 (E) Second Initial Flow 17  Hourly Standby \_\_\_\_\_ T-Out 2145  
 (F) Second Final Flow 24  Mileage 52 RT 72<sup>80</sup> Comments \_\_\_\_\_  
 (G) Final Shut-In 72  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1594  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_

Initial Open 30  
 Initial Shut-In 30  
 Final Flow 30  
 Final Shut-In 30  
 Sub Total 1197.80  
 Total 1197.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

Triobite 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.

P.O. Box 1733 • Hays, Kansas 67601

RECEIVED  
FEB 15 2012  
BY:

## Test Ticket

NO. 46843

Well Name & No. URBAN #1-9 Test No. 3 Date 2-13-12  
 Company Downing-Nelson Oil Co Inc Elevation 1953 KB 1945 GL  
 Address P.O. Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. AL Downing Rig DISCOVERY rig 3  
 Location: Sec. 9 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ks

Interval Tested 3460-3525 Zone Tested Coagl sd.  
 Anchor Length 65 Drill Pipe Run 3452 Mud Wt. 9.2  
 Top Packer Depth 3455 Drill Collars Run - Vis 50  
 Bottom Packer Depth 3460 Wt. Pipe Run - WL 9.2  
 Total Depth 3525 Chlorides 5800 ppm System LCM 2#

Blow Description IFP - STRONG Blow GTS IN 2min  
TSTP - 1" Blow Back  
FFP - GTS  
FSIP - 1" Blow Back

Rec	Feet of	%gas	%oil	%water	%mud
<u>50</u>	<u>Mud</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 110 Gravity - API RW - @ - °F Chlorides - ppm

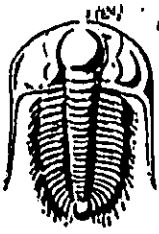
(A) Initial Hydrostatic 1648  Test 1125 T-On Location 0840  
 (B) First Initial Flow 798  Jars \_\_\_\_\_ T-Started 0900  
 (C) First Final Flow 786  Safety Joint \_\_\_\_\_ T-Open 1105  
 (D) Initial Shut-In 1122  Circ Sub \_\_\_\_\_ T-Pulled 1340  
 (E) Second Initial Flow 776  Hourly Standby \_\_\_\_\_ T-Out 1632  
 (F) Second Final Flow 797  Mileage 52RT 72.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 1115  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1632  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 15  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 60  Day Standby \_\_\_\_\_ Total 1197.80  
 Final Flow 20  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 120 Sub Total 1197.80

Approved By \_\_\_\_\_

Our Representative RAY SCHWAGER *thank you*

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BY: \_\_\_\_\_

## GAS VOLUME REPORT

DNOC

OPERATOR

URBAN 1-9

WELL NAME AND NO.

3

DST NO.

GTS IN 2 MIN

1<sup>st</sup> flow

2<sup>nd</sup> flow

Min.	In. of Water (PSIG)	Orifice Size	CF/D	Min.	In. of Water (PSIG)	Orifice Size	CF/D
5	240	3/4	3973691	5	250	3/4	4129890
15	250	3/4	4129890	10	250	3/4	4129890
				15	280	3/4	4598486
				20	280	3/4	4598486

Remarks:



# TRILOBITE TESTING INC.

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RECEIVED  
FEB 15 2012  
BY: \_\_\_\_\_

## Test Ticket

NO. 46844

Well Name & No. URBAN # 1-9 Test No. 4 Date 2-13-12  
 Company Downing-Nelson Oil Co Inc Elevation 1953 KB 1945 GL  
 Address P.O. Box 1019 Hays, Ko 67601  
 Co. Rep / Geo. AL Downing Rig DISCOVERY R193  
 Location: Sec. 9 Twp. 16<sup>s</sup> Rge. 17<sup>w</sup> Co. Rush State Ks

Interval Tested 3538-3544 Zone Tested Arbuckle  
 Anchor Length 6 Drill Pipe Run 3548 Mud Wt. 9  
 Top Packer Depth 3533 Drill Collars Run - Vis 53  
 Bottom Packer Depth 3538 Wt. Pipe Run - WL 9.2  
 Total Depth 3544 Chlorides 5800 ppm System LCM 2#

Blow Description IFP - WEAK TO A GOOD BLOW 1/2" TO 8" BLOW  
ISIP - NO BLOW 20 MIN, THEN SURFACE BLOW  
FFP - WEAK TO STRONG IN 10 MIN  
FSTP - SURFACE BLOW

Rec	Feet of	%gas	%oil	%water	%mud
<u>650</u>	<u>GIP</u>				
<u>70</u>	<u>CO</u>				
<u>20</u>	<u>GMO</u>	<u>20</u>	<u>65</u>		<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 90 BHT 1 Gravity 25 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1683  Test 1125' T-On Location 2250  
 (B) First Initial Flow 49  Jars \_\_\_\_\_ T-Started 2315  
 (C) First Final Flow 52  Safety Joint \_\_\_\_\_ T-Open 0120  
 (D) Initial Shut-In 1184  Circ Sub \_\_\_\_\_ T-Pulled 0420  
 (E) Second Initial Flow 29  Hourly Standby \_\_\_\_\_ T-Out 0630  
 (F) Second Final Flow 50  Mileage 52 RT 72.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 1131  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1674  Straddle \_\_\_\_\_

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Initial Open 45  
 Initial Shut-In 45  
 Final Flow 45  
 Final Shut-In 45  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1197.80  
 Total 1197.80  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_

Our Representative RAY SCHWAGER THANK YOU

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DRILL STEM TESTS

No.	Interval	IPF/10m	ISIP/10m	IPF/10m	ISIP/10m	IPF/10m	ISIP/10m	NOBODY

REMARKS AND RECOMMENDATIONS THIS WELL HAD A VERY STRONG CONK SOME GAS TEST BUT A VERY LOW BTU - LOTS OF NITROGEN BUT ALSO 2% HELIUM - PRODUCTION ALTHOUGH IN THE NEARBY INTERVAL @ 3540'-46'

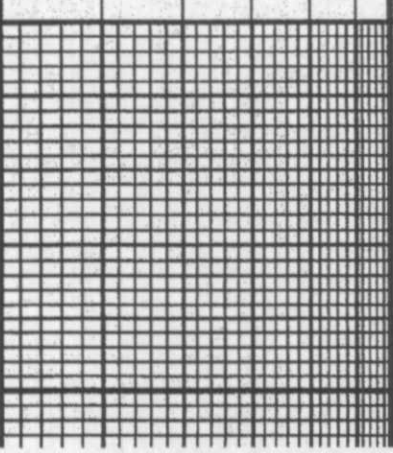
SEA LEVEL

LEGEND



DRILLING TIME IN MINUTES PER FOOT  
Rate of Penetration Decreases

5" 10" 15" 20" 25"



DEPTH

LITHOLOGY

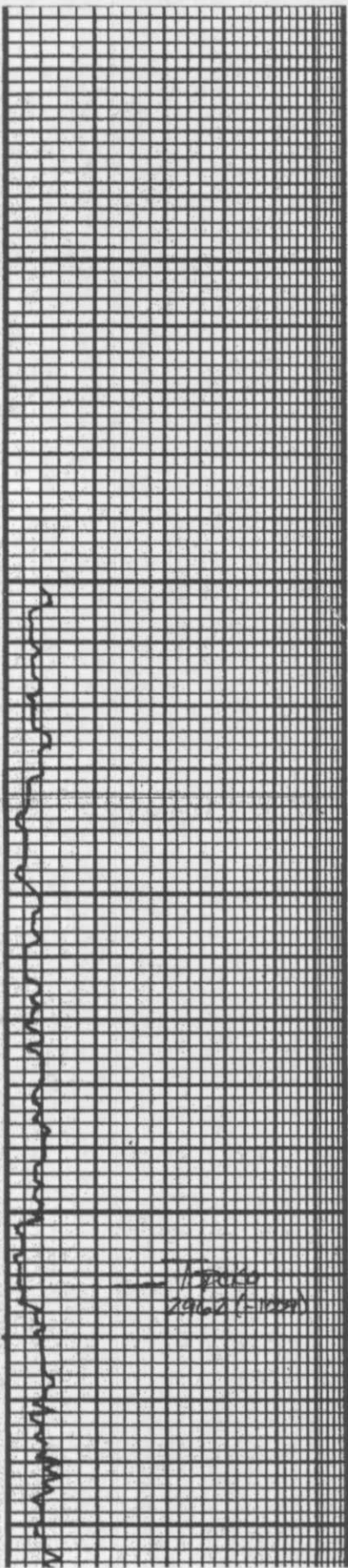
SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

7615

LOG 7710



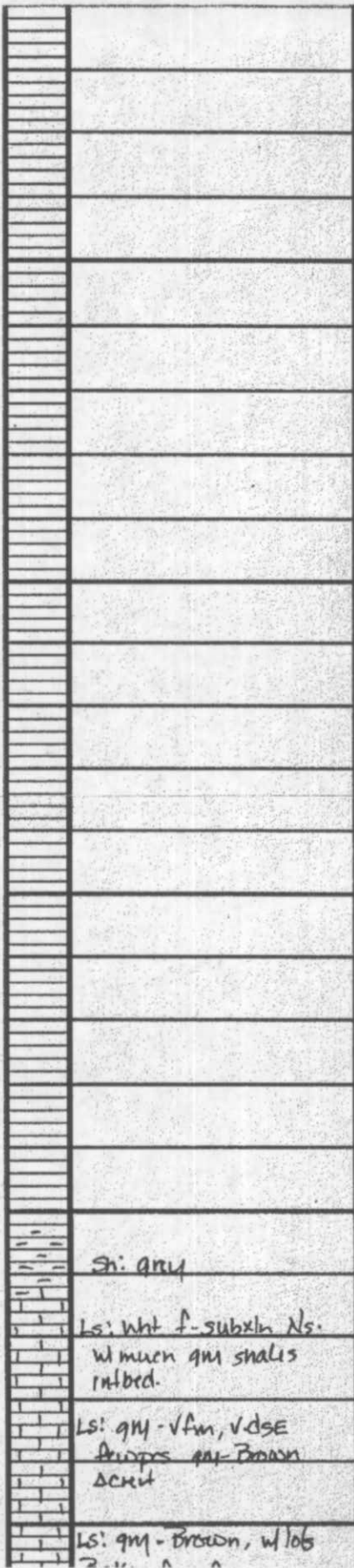
2850

2950

30

Fracture  
zone (1-1000)

3050



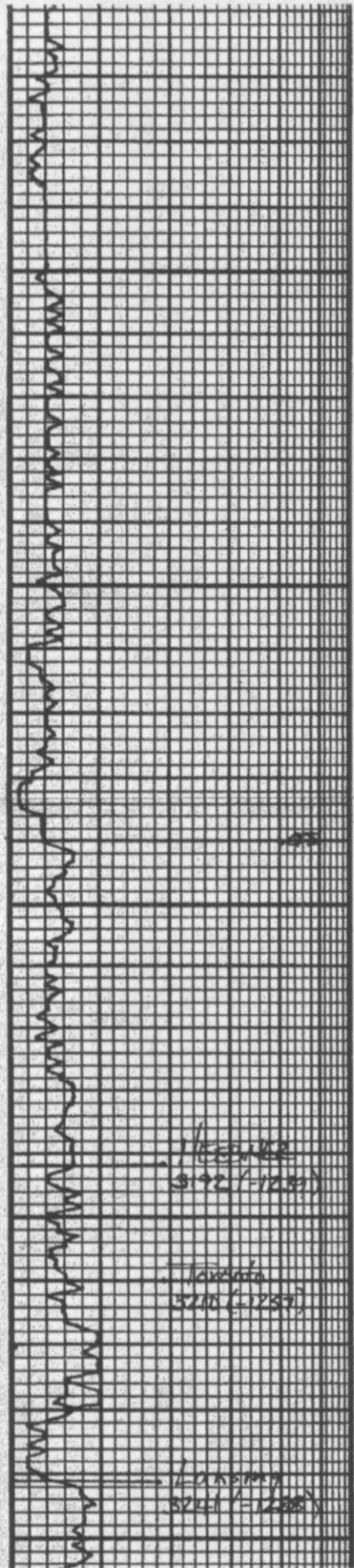
Sh: gray

Ls: wht f-subxln Ns.  
w much qm shales  
intbed.

Ls: gray - vfm, v dse  
fractures gray - brown  
dscrit

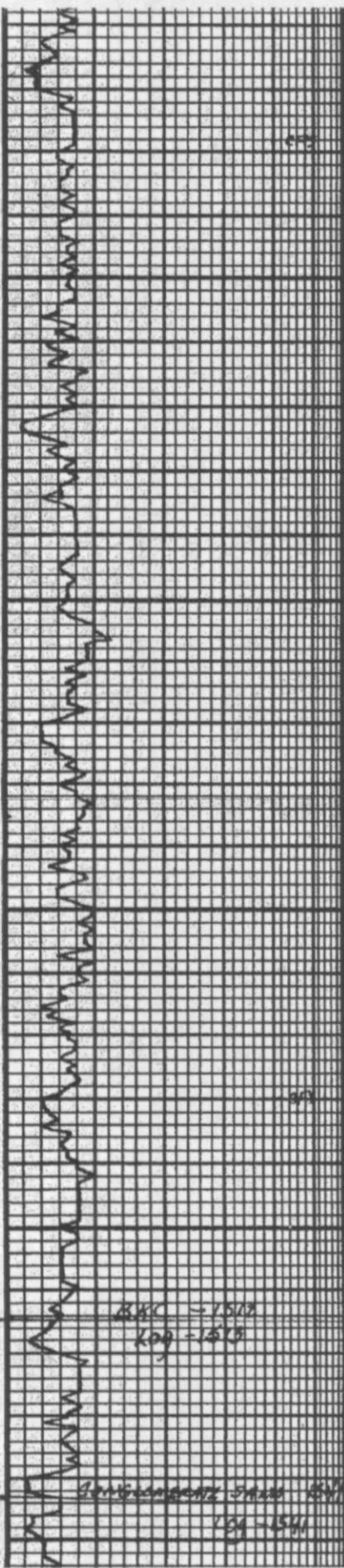
Ls: gray - brown, w lob  
2-4" A A





	Ls: Com fin. Lss w/ small spt str. NSE No odor
50	Ls: Tan - wht v. fm v. dse w/ fucoides wnt & chert
	Ls: Tan - off wht v. coal Poor d. Ns.
	Ls: Tan fin. silt dolomite w/ small spt str. Ns.
3100	sh: Black - carb
	sh: qnz Brown
	Ls: wht fin. silt dolomite <del>fairly indurated Ns. No odor</del>
	Ls: wht - Tan fin. Lss dse
	Ls: Tan fin. v. dse + ool w/ good d. v. good spt. v. strong odor gassy when broken
50	Ls: wht subm - cherty w/ few brachiopod fossil & chert - Ns
	Ls: wht subm - cherty Lss w/ No show - some v. cherty
	sh: Black - carb
3200	Ls: wht v. fm v. dse
	sh: qnz - Brown
	Ls: wht Bone wht v. fm No appd - Ns all v. dse
	sh: Red - qnz - w/ sh Red - Brown
60	Ls: wht fin. all v. fm v. dse. No Appd Ns No od.

VIS 50 WT 9.0 WL 0.2 LEM 2#
DST # 1 15-30-60-60
Intral Flow BTS - 12mm Tstm
Final:
10" - 30,776 csg
20" - 27,603 "
30" - 24,431 "
+ stab till 60"
Rec:
76' mgs
IHP: 1477#
IFP: 32-36#
FFP: 38-34#
SIP: 871-865#
Temp: 99°F



Sh. gray - Brown

LS: Whit fine, somewhat in fine  
interven d - No show no odor  
all totally barren - become  
dise

3300

LS: Whit fin. w/ small v. lig. +  
occ of - No show - No odor  
lots of fin v. dse n. of

LS: Tan fine, w/ good  
NSF, w/ sp. str. No od mostly  
all dse

LS: Tan H. gm fin ad v. lig  
w/ tiny tan. a. - No odor  
v. strong

LS: Tan com. fin. dse some  
CATH LENSES

50

LS: Tan com. fin. v. lig. and  
sp. str. NSF No od

LS: Tan H. gm v. fin. all v. dse  
w/ gray d. chert

D  
S  
T

Sh. gray -

LS: Tan fine w/ small interven  
ent v. lig. v. sp. str. NSF  
some lit. sp. with broken 1-2  
pc. mostly all dse

3400

LS: Whit fin. w/ fine v. lig. d  
w/ tiny show. act - some  
v. faint odor - most dse

H  
2

LS: Whit Tan fin. v. dse w/ good  
foss of in fin. sp. faint odor, some  
grass when broken

50

LS: Tan fine w/ 1-2 solid pp. of  
the fossil v. fine sp. str. d. str.

LS: Whit fine w/ v. fine dse  
in mic. xylem w/ LS all red

UDMS barren LS aa, a few pcs  
frag. tan - H. gm all barren  
ans

Sh. gray

UDMS w/ mic. xylem 2 v. pr  
tiny B.M.S. 1-2 pcs blue oo  
laterally str. nod

Sh. gray

LS

Sh. gray

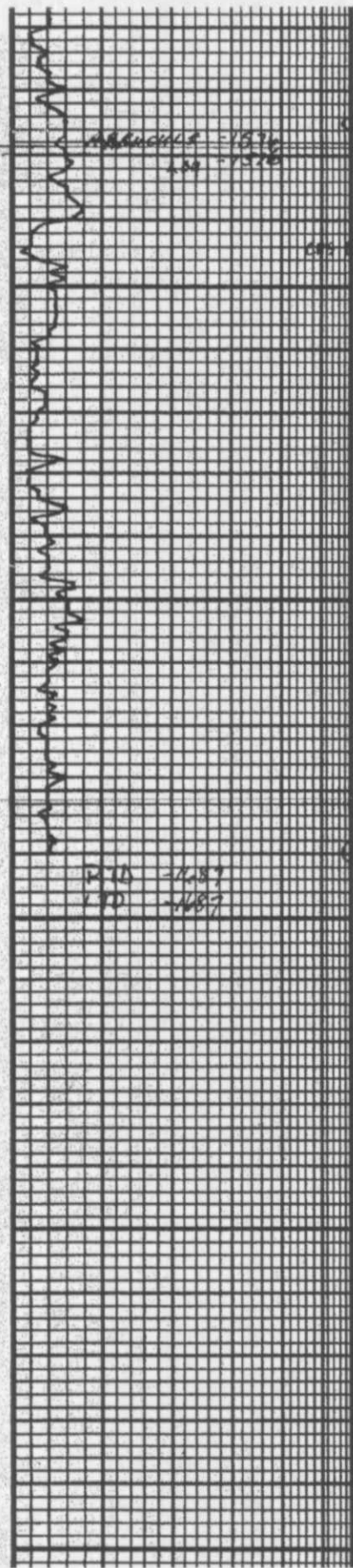
sandy sh. 1-2 v. fine sp. B.M. w/  
sm. cl. and grass and blue to  
blue red NSF no od

3500

vs 52  
wt 8.2  
hl 8.9  
cm 1/2#

DST #2  
3356-3430  
30-30-30-30  
Rec  
110' gip  
10' so gcm  
IHP: 1600#  
IFP: 18-87#  
FFP: 17-24#  
SIP: 87-72#  
FHP: 1594#

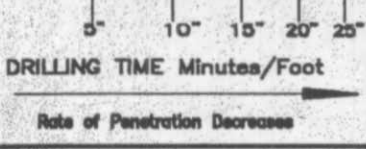
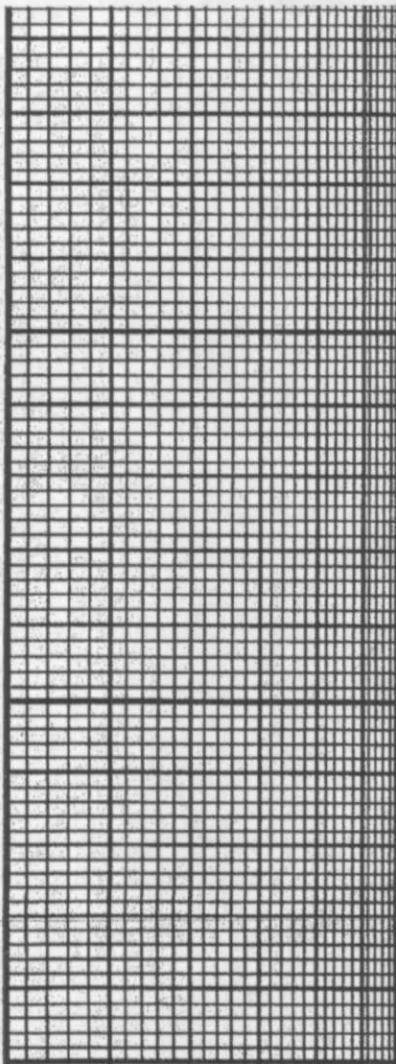
DST #8  
3460-3525'  
15"-60"-20"-120"  
1st op 675 2"  
3,973,000 1st op  
4,598,000 2nd op  
Rec 50'm  
IHP 799-786  
FFP 776-799  
SIP 1122-1115  
IHP 1698-1632  
6H7 110°



thin ss plates c/c and etc. on top  
 red. to white, sm. to med. w/ 5 to 5/8"  
 w/ past & pocket  
 sm. to med. ss. clean, no ppt, med.  
 sm. to med. ss. to ad  
 50  
 Dolo. wh. - Hagen chert  
 sm. to med. ss. v. gd. sat. s. side.  
 sm. to med. ss.  
 Dolo. wh. chert v. gd. sat. s. side  
 v. gd. sat. s. side. v. gd. sat. s. side.  
 sm. to med. ss. v. gd. sat. s. side.  
 Broken  
 Dolo. wh. - cl. sm. to med. ss.  
 sm. to med. ss. v. gd. sat. s. side.  
 frac. p. to ad, much less ss.  
 more wh. barren  
 Dolo. as above sm. to med. ss.  
 frac. p. to ad, much less ss.  
 pr. to ad, much less ss.  
 sm. to med. ss. porous dolo. sm.  
 wh. to ad, much less ss.  
 only all light barren  
 wh. - med. dolo.  
 3600  
 Dolo. aa  
 aa  
 Dolo. wh. - Hagen dolo.  
 K.S.  
 50  
 K.S. Nelson

DST #4  
 3538-3544  
 45" 45" - 45" - 45"  
 1st of 8" Blow  
 (Pressure)  
 1st SI surf blow @ 20"  
 2nd of 8" 10"  
 2nd SI surface blow  
 IFF 49-52  
 FFP 29-50  
 SIP 1184-1191  
 HP 1683-1674  
 Rec 650' gas  
 70' clean oil  
 20' G.M.O  
 Gravity 25

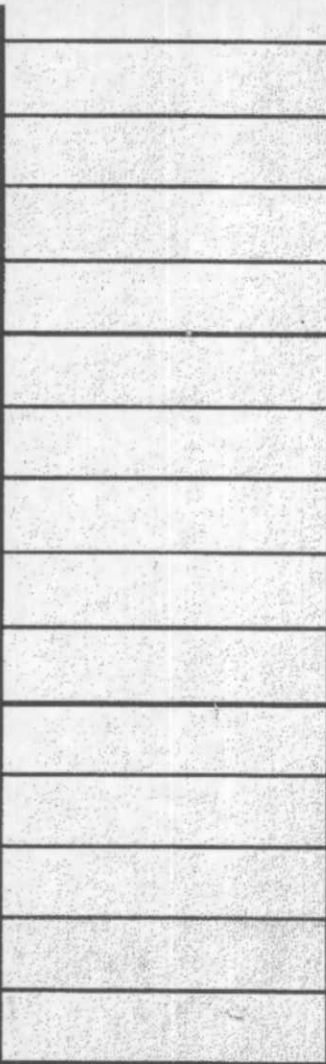




DEPTH



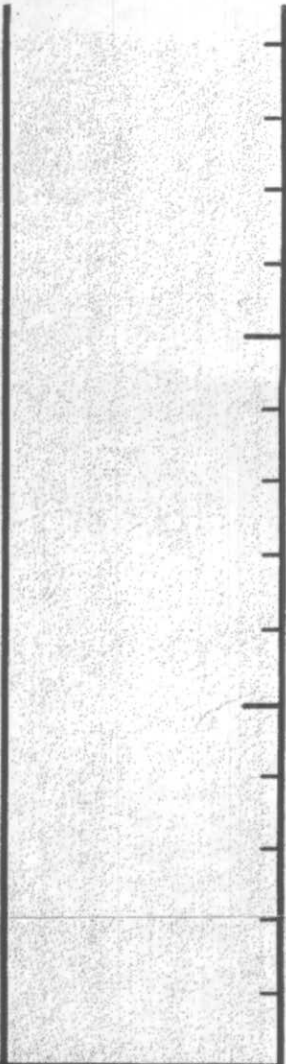
LITHOLOGY



SAMPLE DESCRIPTIONS



OIL SHOWS



REMARKS

CONTRACTOR <u>DISCOVERY DRILLING Rig # 3</u>	LOCATION <u>1723' ENC &amp; 1581' ENC</u>
LEASE <u>URGENT-9</u> IP <u>AAA</u>	SEC <u>9</u> TWP <u>16s</u> RNG <u>1740</u>
ELEVATION <u>1953' KA</u> RTD <u>3140'</u>	COUNTY <u>Rush</u> STATE <u>KANSAS</u>