

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

July 2014

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 Co., Inc.

Wellsite Geologist: Marc Downing

Purchaser: Coffeyville 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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

<u>04/17/2017</u>	<u>04/22/2017</u>	<u>07/17/2017</u>
Spud Date or	Date Reached TD	Completion Date or
Recompletion Date		Recompletion Date

API No. 15 - 065-24,126-00-00

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

SE SE NW NW Sec. 26 Twp. 9 S. R. 24  East  West

1,065 Feet from  North /  South Line of Section

1,040 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: Graham

Lease Name: Loyd Well #: 2-26

Field Name: Glen Dale South

Producing Formation: LKC

Elevation: Ground: 2452 Kelly Bushing: 2500

Total Vertical Depth: 4140 Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 221 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: 2116 Feet

If Alternate II completion, cement circulated from: 2116

feet depth to: 0 w/ 195 sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: 28,000 ppm Fluid volume: 400 bbls

Dewatering method used: Evaporation

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

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

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

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

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

**INSTRUCTIONS:** The original form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. If confidentiality is requested and approved, side two of this form will be held confidential for a period of 2 years. Rules 82-3-130, 82-3-106 and 82-3-107 apply. Drill Stem Test, Cement Tickets and Geological Well Report must be attached.

**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.

Signature: Michelle Meien

Title: Office Manager Date: 09/26/2017

**KCC Office Use ONLY**

- Confidentiality Requested
- Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: KJR Date: 10-10-2017

Operator Name: Downing Nelson Oil Co., Inc. Lease Name: Loyd Well #: 2-26  
 Sec. 26 Twp. 9 S. R. 24  East  West County: Graham

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No

List All E. Logs Run:  
 Micro, Compensated Density Neutron, Dual Induction

<input checked="" type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Name	Top	Datum
Top Anhydrite	2143'	+358
Base Anhydrite	2184'	+322
Topeka	3583'	-1083
Heebner	3800'	-1300
Toronto	3825'	-1325
LKC	3842'	-1342
BKC	4067'	-1567

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	221	80/20 Poz	150	2% Gel & 3% CC
Production Casing	7.875	5.5	17	4140	EA2	150	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No (If No, skip questions 2 and 3)

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No (If No, skip question 3)

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No (If No, fill out Page Three of the ACO-1)

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	4018'-4022'	500 gallons 20% Mud Acid	4018-4022
4	3995'-3999'	750 gallons 15% NE	4018-4022
		250 gallons 20% Mud Acid	3995'-3999'
		750 gallons 15% Retarded Acid	3995'-3999'

TUBING RECORD: Size: 2.375 Set At: 4108 Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. 07/17/2017 Producing Method:  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6	0	10		

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-1B.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 204

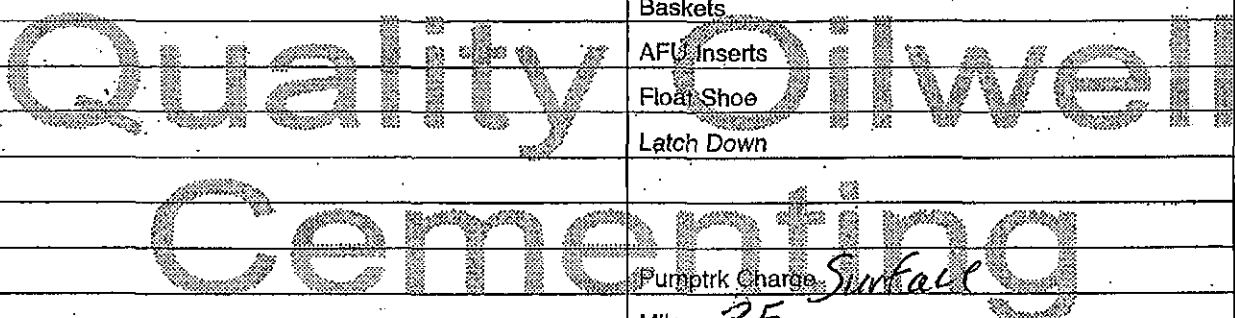
Date	4-17-17	Sec.	26	Twp.	9	Range	24	County	Cochran	State	KS	On Location		Finish	7:00PM
								Location							
								Wakeney V Redline Low 200.1 N 1/4 E S into							

Lease	Loyd	Well No.	226	Owner	To Quality Oilwell Cementing, Inc.
Contractor	D. Swanson #3				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job	Surface				Charge To
Hole Size	12 1/4	T.D.	221	Downing/Wilson	
Csg.	8 5/8	Depth	221	Street	
Tbg. Size		Depth		City State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	10'	Shoe Joint		Cement Amount Ordered 150 8 5/8 3/16 2.1 GEL	
Meas Line		Displace	133L		

EQUIPMENT				Common	
Pumptrk	20	No.	Cement	120	
			Helper		
Bulktrk		No.	Driver	Poz. Mix	30
			Driver	Gel.	3
Bulktrk	14	No.	Driver	Calcium	6
			Driver		

JOB SERVICES & REMARKS		Hulls	
Remarks:		Salt	
Rat Hole		Flowseal	
Mouse Hole		Kol-Seal	
Centralizers		Mud CLR 48	Received KANSAS CORPORATION COMMISSION
Baskets		CFL-117 or CD110 CAF 38	OCT 06 2011
D/V or Port Collar		Sand	CONSERVATION DIVISION WICHITA, KS
8 5/8 on bottom Port Circulation. Mix 150 8 5/8 x Displace. Cement Circulated!		Handling	159
		Mileage	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	35
Tax	
Discount	
Total Charge	



X  
Signature

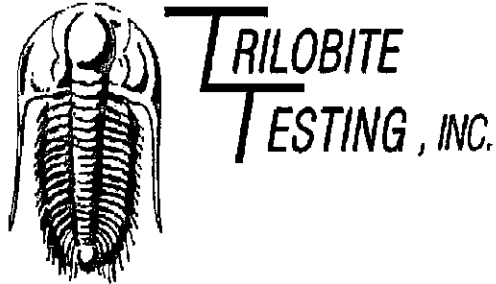
JOB LOG

SWIFT Services, Inc.

DATE 4-23-17	PAGE NO. 1
TICKET NO. 30308	

CUSTOMER Deringer & Nelson	WELL NO. # 2-26	LEASE Level	JOB TYPE 5 1/2" Two-Stage
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1315							on location 5 1/2" 17" RTD-4140' LTD-4142' TP-4139' SS- #1 19.69' D.U.- #48 2116' out- #81 cent- #1 #3 #5 #7 #9 #11 #47 Basket- #48
	1400							Start 5 1/2" 17" casing in well
	1545							Drop Ball Circulate * Rotate *
	1625	6 1/2	12		✓	300		Pump 500 gal Mud Flush
		6 1/2	20		✓	300		Pump 20 bbl HCL Flush
	1635	4 1/2	35		✓	200		Mix 150 sks FA-2 @ 15.5 ppg Wash out Pump/Lines - Release Plug
	1650	6 1/2	∅		✓	1000		Start Displacement
		6 1/2	74		✓	300		Lift Pressure
	1705	6 1/2	95.5		✓	1400		Land Latch Down Plug - *Release Plug Hold*
								Drop Bomb Received KANSAS CORPORATION COMMISSION
	1715	∅	∅		✓	1400		Open D.U. Tool OCT 05 2017
								CONSERVATION DIVISION WICHITA, KS
	1720	6 1/2	20		✓	200		Pump 20 bbl HCL Flush
			16-11		✓			Plug RH-MH (30-20)
	1725	6 1/2	105		✓	100		mix 190 sks SMD @ 11.2 ppg Wash out Pump/Lines - Release Top Plug
	1750	6 1/2	∅		✓	200		Start Displacement
		6 1/2	15		✓	300		Lift Pressure
		6 1/2	38		✓	400		circulate cement to surface *20 sks*
	1800	6 1/2	49		✓	2000		land Top Plug close D.U. Tool Release Pressure *Top Plug Hold* Wash up trucks
	1830							Job Complete Thank You Dave Preston Kribby Wayne



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Marc Downing

**Loyd #2-26**

**26-9s-24w Graham,KS**

Start Date: 2017.04.21 @ 11:45:14

End Date: 2017.04.21 @ 18:35:23

Job Ticket #: 64139                      DST #: 1

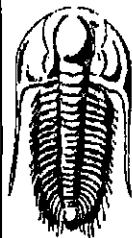
Received  
KANSAS CORPORATION COMMISSION  
**OCT 06 2017**  
CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.24 @ 10:29:30



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**26-9s-24w Graham,KS**

PO Box 1019  
Hays KS 67601

**Loyd #2-26**

Job Ticket: 64139

**DST#: 1**

ATTN: Marc Dow ning

Test Start: 2017.04.21 @ 11:45:14

## GENERAL INFORMATION:

Formation: **LKC C-D**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:50:24  
 Time Test Ended: 18:35:23

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Ray Schw ager  
 Unit No: 77

Interval: **3857.00 ft (KB) To 3900.00 ft (KB) (TVD)**  
 Total Depth: 3900.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2500.00 ft (KB)  
 2492.00 ft (CF)  
 KB to GR/CF: 8.00 ft

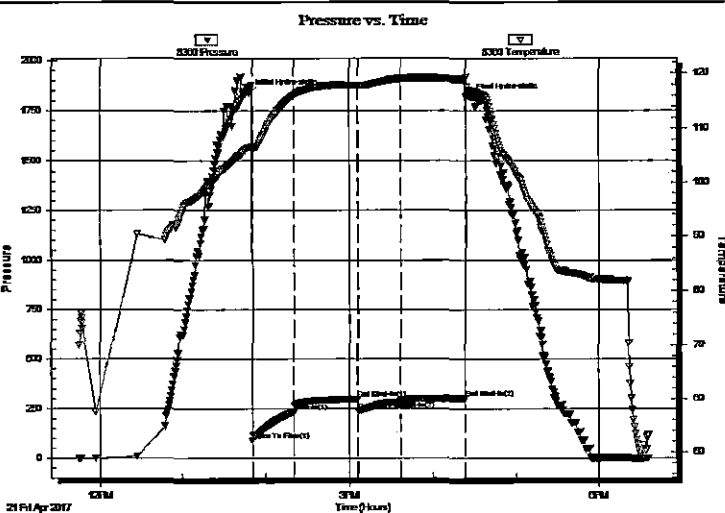
## Serial #: 8360

Inside

Press@RunDepth: 289.88 psig @ 3864.00 ft (KB)  
 Start Date: 2017.04.21 End Date: 2017.04.21  
 Start Time: 11:45:14 End Time: 18:35:23

Capacity: 8000.00 psig  
 Last Calib.: 2017.04.21  
 Time On Btm: 2017.04.21 @ 13:48:09  
 Time Off Btm: 2017.04.21 @ 16:27:08

TEST COMMENT: 30-IFP-BOB in 5 min  
 45-ISIP-surface bl bk in 20-min  
 30-FFP-BOB in 20 min  
 45-FSIP-surface bl bk



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1837.10	106.49	Initial Hydro-static
3	87.80	105.88	Open To Flow (1)
33	232.40	116.00	Shut-In(1)
78	298.36	117.78	End Shut-In(1)
79	237.96	117.77	Open To Flow (2)
109	289.88	119.01	Shut-In(2)
156	300.64	118.88	End Shut-In(2)
159	1817.58	116.91	Final Hydro-static

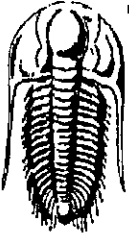
## Recovery

Length (ft)	Description	Volume (bbl)
310.00	Water	4.08
124.00	O&GCMW 10%G10%O20%M60%W	1.74
117.00	O&GCMW 10%G10%O30%M50%W	1.64
10.00	CO	0.14
0.00	60'GIP	0.00

## Gas Rates

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

Received  
 KANSAS CORPORATION COMMISSION  
 OCT 06 2017  
 CONSERVATION DIVISION  
 WICHITA, KS



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

26-9s-24w Graham,KS

PO Box 1019  
Hays KS 67601

Loyd #2-26

Job Ticket: 64139

DST#: 1

ATTN: Marc Dow ning

Test Start: 2017.04.21 @ 11:45:14

## GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:24

Time Test Ended: 18:35:23

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schwager

Unit No: 77

Interval: **3857.00 ft (KB) To 3900.00 ft (KB) (TVD)**

Reference Elevations: 2500.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2492.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 6751** Outside

Press@RunDepth: psig @ 3864.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.04.21

End Date:

2017.04.21

Last Calib.:

2017.04.21

Start Time: 11:45:39

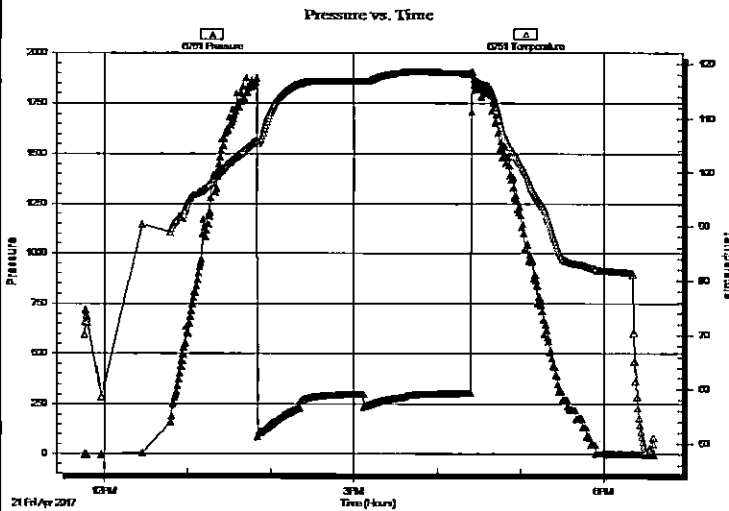
End Time:

18:35:48

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IFP-BOB in 5 min  
45-ISIP-surface bl bk in 20-min  
30-FFP-BOB in 20 min  
45-FSIP-surface bl bk



## PRESSURE SUMMARY

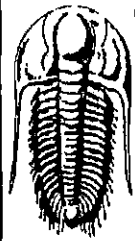
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
<p>Received KANSAS CORPORATION COMMISSION <b>OCT 06 2017</b> CONSERVATION DIVISION WICHITA, KS</p>			

## Recovery

Length (ft)	Description	Volume (bbt)
310.00	Water	4.08
124.00	O&GCMW 10%G10%O20%M60%W	1.74
117.00	O&GCMW 10%G10%O30%M50%W	1.64
10.00	CO	0.14
0.00	60'GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Downing-Nelson Oil Co Inc

**26-9s-24w Graham,KS**

PO Box 1019  
Hays KS 67601

**Loyd #2-26**

Job Ticket: 64139

DST#: 1

ATTN: Marc Downing

Test Start: 2017.04.21 @ 11:45:14

**Tool Information**

Drill Pipe:	Length: 3832.00 ft	Diameter: 3.80 inches	Volume: 53.75 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: 85000.00 lb
		<u>Total Volume:</u>	<u>53.90 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3857.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	64.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

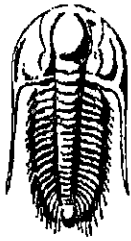
Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3837.00	
Shut In Tool	5.00			3842.00	
Hydraulic tool	5.00			3847.00	
Packer	5.00			3852.00	21.00 Bottom Of Top Packer
Packer	5.00			3857.00	
Stubb	1.00			3858.00	
Perforations	6.00			3864.00	
Recorder	0.00	8360	Inside	3864.00	
Recorder	0.00	6751	Outside	3864.00	
Blank Spacing	33.00			3897.00	
Bullnose	3.00			3900.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 64.00**

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**OCT 06 2017**  
CONSERVATION DIVISION  
WICHITA, KS





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

**26-9s-24w Graham,KS**

PO Box 1019  
Hays KS 67601

**Loyd #2-26**

Job Ticket: 64139

**DST#: 1**

ATTN: Marc Downing

Test Start: 2017.04.21 @ 11:45:14

**Mud and Cushion Information**

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 52.00 sec/qt  
Water Loss: 7.58 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 2000.00 ppm  
Filter Cake: 1.00 inches

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

Oil API: 34 deg API  
Water Salinity: 63000 ppm

**Recovery Information**

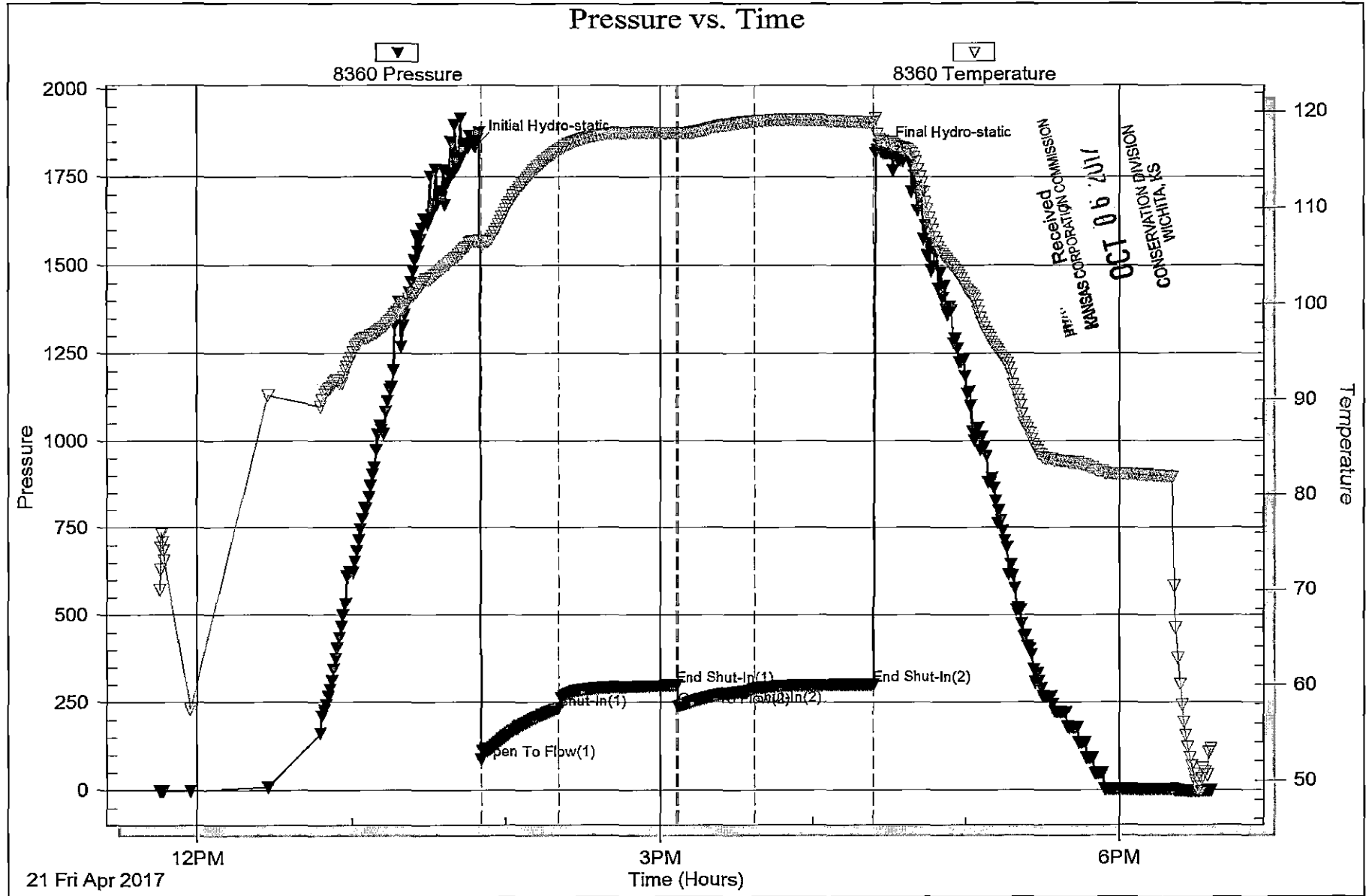
Recovery Table

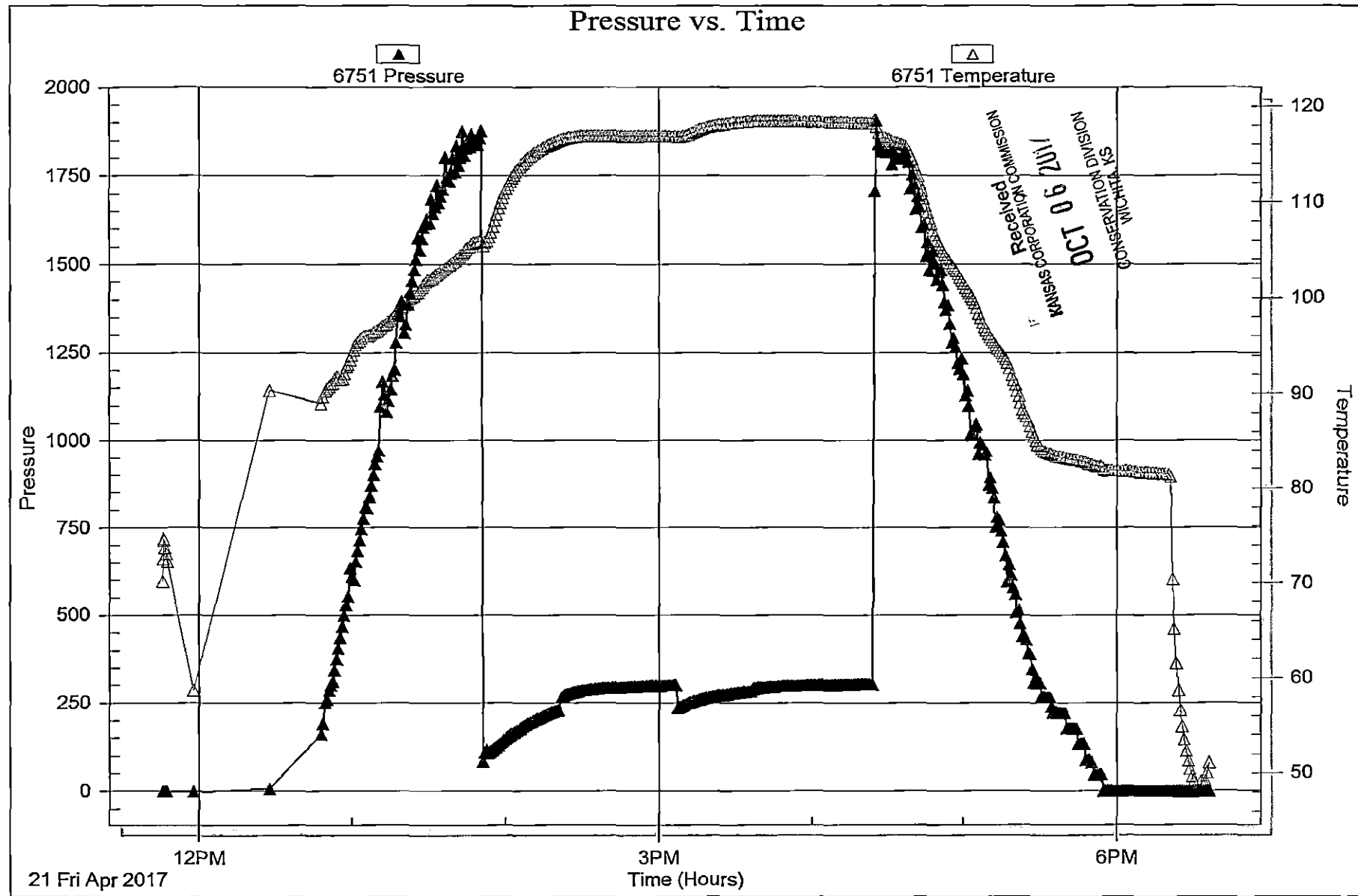
Length ft	Description	Volume bbl
310.00	Water	4.075
124.00	O&GCMW 10%G10%O20%M60%W	1.739
117.00	O&GCMW 10%G10%O30%M50%W	1.641
10.00	CO	0.140
0.00	60'GIP	0.000

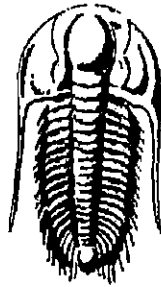
Total Length: 561.00 ft      Total Volume: 7.595 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments: RW.15@65F

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WICHITA, KS







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Marc Downing

**Loyd #2-26**

**26-9s-24w Graham,KS**

Start Date: 2017.04.22 @ 06:50:24

End Date: 2017.04.22 @ 13:18:48

Job Ticket #: 64140                      DST #: 2

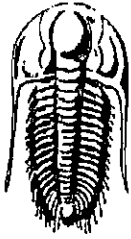
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OCT 06 2017  
CONSERVATION DIVISION  
WICHITA, KS

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.04.24 @ 10:27:32



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

26-9s-24w Graham,KS

PO Box 1019  
Hays KS 67601

Loyd #2-26

Job Ticket: 64140

DST#: 2

ATTN: Marc Downing

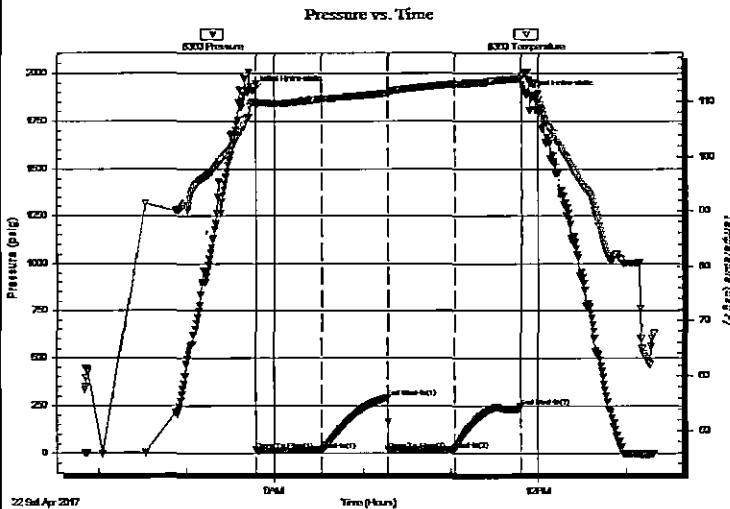
Test Start: 2017.04.22 @ 06:50:24

## GENERAL INFORMATION:

Formation: LKC "I"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:47:49  
 Time Test Ended: 13:18:48  
 Interval: 3979.00 ft (KB) To 3997.00 ft (KB) (TVD)  
 Total Depth: 3997.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2500.00 ft (KB)  
 2492.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8360** Inside  
 Press@RunDepth: 23.57 psig @ 3980.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.04.22 End Date: 2017.04.22 Last Calib.: 2017.04.22  
 Start Time: 06:50:24 End Time: 13:18:48 Time On Btm: 2017.04.22 @ 08:46:04  
 Time Off Btm: 2017.04.22 @ 11:51:33

TEST COMMENT: 45-IFP-wk bl thru-out 1/4" to 2 1/2" bl  
 45-ISIP-no bl  
 45-FFP-wk to a fr bl 1" to 5" bl  
 45-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1909.94	110.01	Initial Hydro-static
2	19.82	109.34	Open To Flow (1)
47	19.82	110.60	Shut-In(1)
91	291.93	111.52	End Shut-In(1)
92	19.66	111.51	Open To Flow (2)
137	23.57	113.27	Shut-In(2)
182	248.83	114.22	End Shut-In(2)
186	1888.37	115.30	Final Hydro-static

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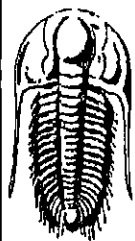
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	O&GCM 5%G20%O75%M	0.05
0.00	210' GIP	0.00

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Downing-Nelson Oil Co Inc

26-9s-24w Graham, KS

PO Box 1019  
Hays KS 67601

Loyd #2-26

Job Ticket: 64140

DST#: 2

ATTN: Marc Downing

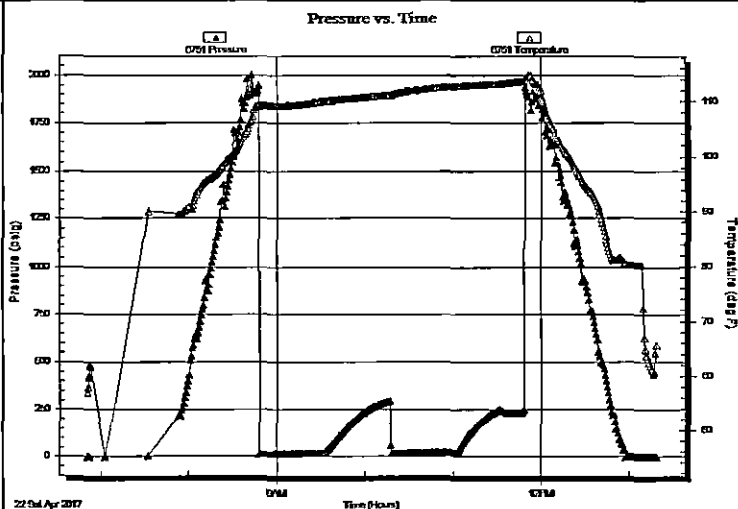
Test Start: 2017.04.22 @ 06:50:24

## GENERAL INFORMATION:

Formation: LKC "I"  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 08:47:49  
 Time Test Ended: 13:18:48  
 Interval: 3979.00 ft (KB) To 3997.00 ft (KB) (TVD)  
 Total Depth: 3997.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Ray Schwager  
 Unit No: 77  
 Reference Elevations: 2500.00 ft (KB)  
 2492.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: 6751 Outside  
 Press@RunDepth: psig @ 3980.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.04.22 End Date: 2017.04.22 Last Calib.: 2017.04.22  
 Start Time: 06:50:32 End Time: 13:18:56 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 45-IFP-wk bl thru-out 1/4" to 2 1/2" bl  
 45-ISIP-no bl  
 45-FFP-wk to a fr bl 1" to 5" bl  
 45-FSIP-no bl



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
<p>Received KANSAS CORPORATION COMMISSION OCT 06 2017 CONSERVATION DIVISION WICHITA, KS</p>			

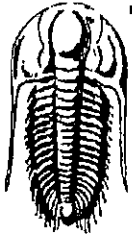
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	O&GCM 5%G20%O75%M	0.05
0.00	210' GIP	0.00

## 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

**26-9s-24w Graham,KS**

PO Box 1019  
Hays KS 67601

**Loyd #2-26**

Job Ticket: 64140

**DST#: 2**

ATTN: Marc Dow ning

Test Start: 2017.04.22 @ 06:50:24

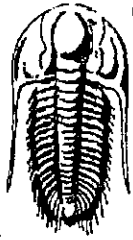
**Tool Information**

Drill Pipe:	Length: 3958.00 ft	Diameter: 3.80 inches	Volume: 55.52 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:	80000.00 lb
		<u>Total Volume: 55.67 bbl</u>		Tool Chased	4.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3979.00 ft			Final	61000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	18.00 ft				
Tool Length:	39.00 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			3959.00	
Shut In Tool	5.00			3964.00	
Hydraulic tool	5.00			3969.00	
Packer	5.00			3974.00	21.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Recorder	0.00	3360	Inside	3980.00	
Recorder	0.00	5751	Outside	3980.00	
Perforations	14.00			3994.00	
Bullnose	3.00			3997.00	18.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>39.00</b>				

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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Downing-Nelson Oil Co Inc

**26-9s-24w Graham,KS**

PO Box 1019  
Hays KS 67601

**Loyd #2-26**

Job Ticket: 64140

**DST#: 2**

ATTN: Marc Downing

Test Start: 2017.04.22 @ 06:50:24

## 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: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	O&GCM 5%G20%O75%M	0.049
0.00	210' SIP	0.000

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

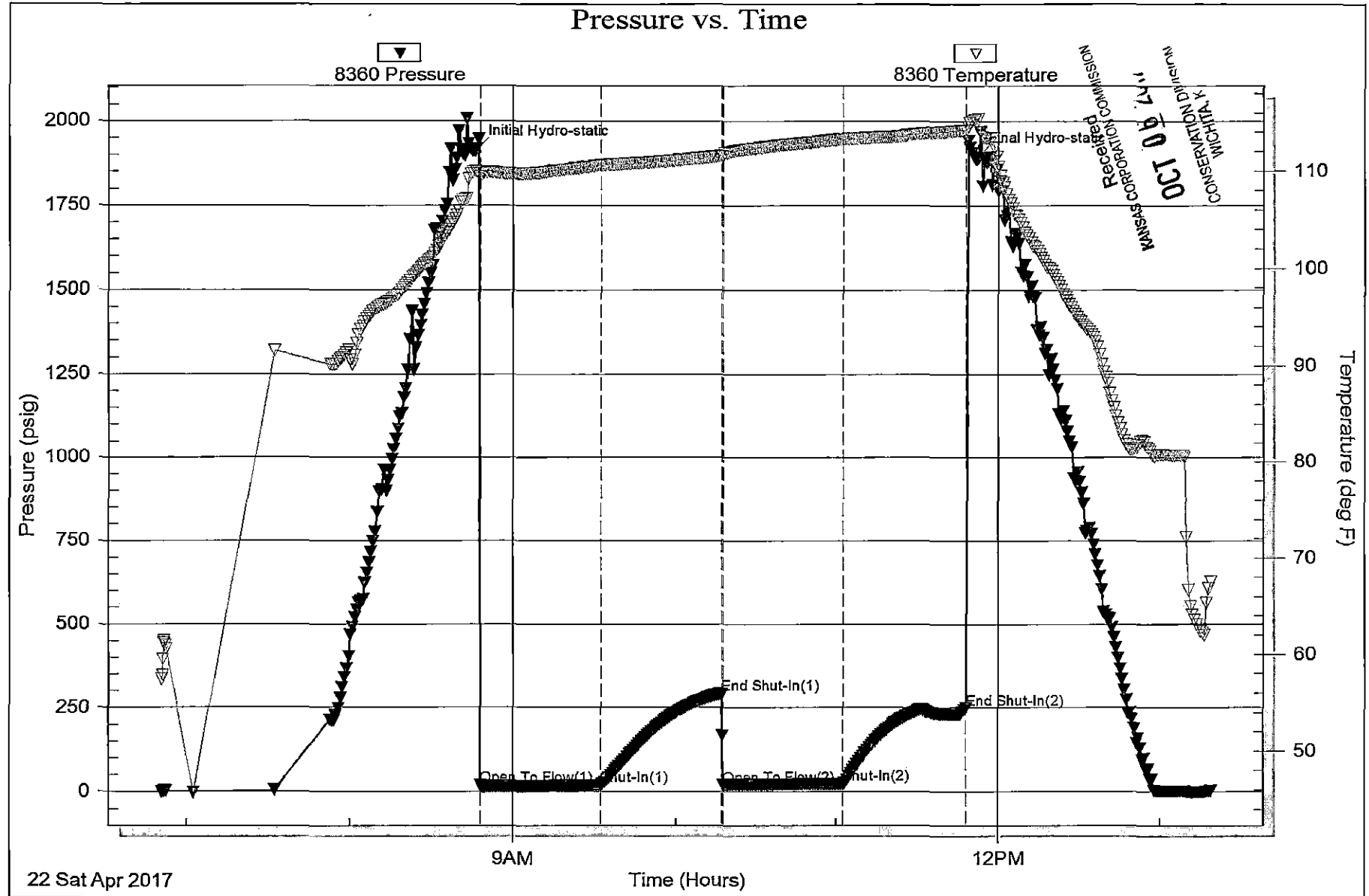
Laboratory Name:

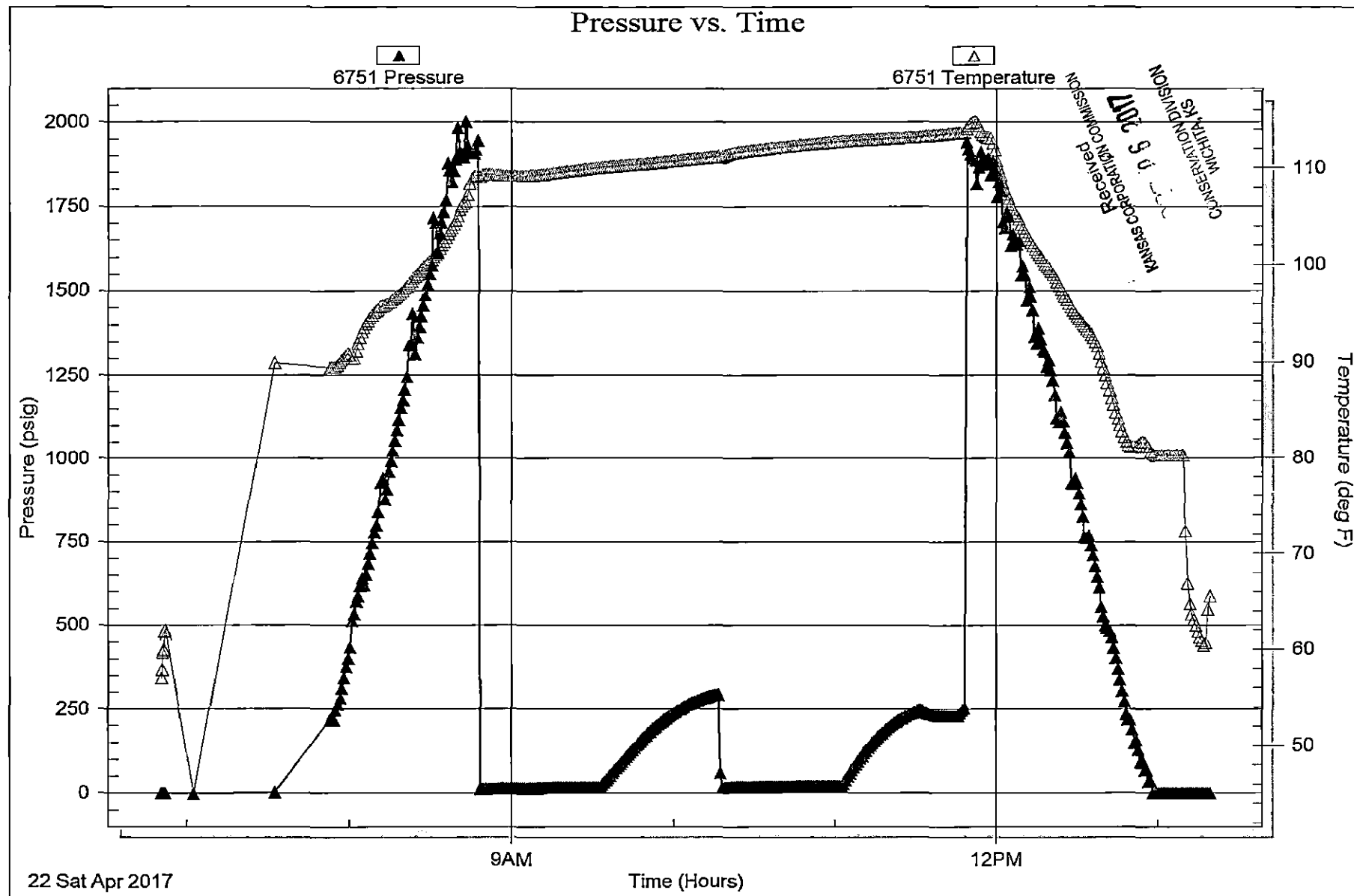
Laboratory Location:

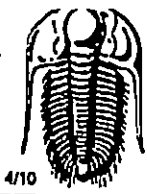
Recovery Comments:

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64139

Well Name & No. Loyd #2-26 Test No. 1 Date 4-21-17  
 Company Downing-Nelson Oil Co Inc Elevation 2500 KB 2492 GL  
 Address Po Box 1019 Hays, Ka 67601  
 Co. Rep / Geo. MARC DOWNING Rig DISCOVERY RIG 3  
 Location: Sec. 26 Twp. 9<sup>th</sup> Rge. 24<sup>th</sup> Co. GRAHAM State Ks

Interval Tested 3857-3900 Zone Tested LKC C-0  
 Anchor Length 43 Drill Pipe Run 3832 Mud Wt. 9.1  
 Top Packer Depth 3852 Drill Collars Run 30 Vls 52  
 Bottom Packer Depth 3857 Wt. Pipe Run - WL 2.6  
 Total Depth 3900 Chlorides 2000 ppm System LCM 2#  
 Blow Description IFP - BOB IN 5 MIN  
ISIP - SURFACE BLOW BACK AFTER 20 MIN  
FFP - BOB IN 20 MIN  
FSIP - SURFACE BLOW BACK

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>GTP</u>				
<u>110</u>	<u>CO</u>				
<u>117</u>	<u>D+6 CMW</u>	<u>10</u>	<u>10</u>	<u>50</u>	<u>30</u>
<u>126</u>	<u>D+6 CMW</u>	<u>10</u>	<u>10</u>	<u>60</u>	<u>20</u>
<u>310</u>	<u>WATER</u>				

Rec Total 561 BHT 1 Gravity 34 API RW .15 @ 65 °F Chlorides 63000 ppm  
 Test 1050 T-On Location 1010  
 Jars \_\_\_\_\_ T-Started 1145  
 Safety Joint \_\_\_\_\_ T-Open 1345  
 Circ Sub \_\_\_\_\_ T-Pulled 1615  
 Hourly Standby \_\_\_\_\_ T-Out 1835  
 Mileage 115 RT 86.25 Comments \_\_\_\_\_  
 Sampler \_\_\_\_\_  
 Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1136.25

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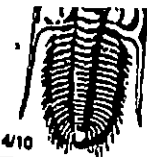
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 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1136.25  
 MP/DST Disc't \_\_\_\_\_

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

Our Representative RAY SCHWAGER

Thank you

TriLOBite Testing Inc. shall not be liable for damaged or 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. 64140

Well Name & No. Loyd #2-26 Test No. 2 Date 4-22-17  
 Company Downing-Nelson O.L.Co. Inc Elevation 2500 KB 2492 GL  
 Address PO Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. MARC Downing Rig Discovery rig 3  
 Location: Sec. 26 Twp. 9<sup>s</sup> Rge. 24<sup>w</sup> Co. GRAHAM State Ks

Interval Tested 3979-3997 Zone Tested LKC I  
 Anchor Length 18 Drill Pipe Run 3958 Mud Wt. 9.1  
 Top Packer Depth 3974 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 3979 Wt. Pipe Run - WL 7.6  
 Total Depth 3997 Chlorides 2000 ppm System LCM 2#  
 Blow Description IFP - Weak Blow thru-out 1/4" to 2 1/2" Blow  
TSIP - NO Blow  
FFP - Weak to a Fair Blow 1" to 5" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
210	GTP				
10	D & GCM	5	20		25

Rec Total 10 BHT 114 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1909  Test 1050 T-On Location 0615  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 0650  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 0850  
 (D) Initial Shut-In 291  Circ Sub \_\_\_\_\_ T-Pulled 1150  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 1318  
 (F) Second Final Flow 23  Mileage 86.25 Comments \_\_\_\_\_  
 (G) Final Shut-In 248  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1888  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1136.25

Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1136.25  
 MP/DST Disc't \_\_\_\_\_

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, tool's lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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