



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1179040  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
August 2013

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

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

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

Datum:  NAD27       NAD83       WGS84

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

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

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

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

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

Total Vertical 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

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

1179040

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

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

**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. 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<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 <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

<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> <i>(Submit ACO-4)</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	Wilma Schoendaller 2-24
Doc ID	1179040

Tops

Name	Top	Datum
Top Anhydrite	1373'	+754
Base Anhydrite	1416'	+711
Topeka	3147'	-1023
Heebner	3398'	-1271
Tornoto	3418'	-1291
LKC	3446'	-1319
BKC	3688'	-1561
Arbuckle	3794'	-1667

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 7396

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-5-13	24	14	19	ELI.S	KS		6:30 p.m.

Location *W.1ma* *Schoendaller* *Well No. 2-24* *Hays S.M.T. Pleasant 3w to 220R 1/3*

Lease *Schoendaller* Well No. *2-24* Owner To Quality Oilwell Cementing, Inc.  
 Contractor *Disaveno #3* You are hereby requested to rent cementing equipment and furnish  
 Type Job *Surface* cementer and helper to assist owner or contractor to do work as listed.

Hole Size *12 1/4* T.D. *224* Charge To *Downing/Nelson*

Csg. *8 5/8* Depth *223* 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. *15* Shoe Joint Cement Amount Ordered *150 com 3' / CC 2' / GEL*

Meas Line Displace *133L* Common *150*

EQUIPMENT			
Pumptrk	No.	Cementer	
<i>15</i>		<i>Craig</i>	
		Helper	
Bulktrk	No.	Driver	
		<i>Brett</i>	
		Driver	
Bulktrk	No.	Driver	
<i>8</i>		<i>Heath</i>	
		Driver	

POZ. MIX

Gel. *3*

Calcium *5*

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling *158*

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge *Surface*

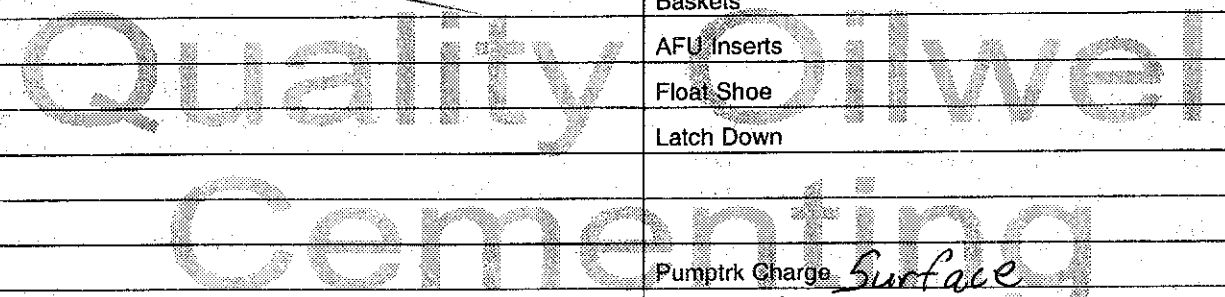
Mileage *7*

Tax

Discount

Total Charge

Signature *John Duche*



Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

*8 5/8 on bottom Est Circulation -*

*Mix 150 com & Displace.*

*Cement Circulated.*

# 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. 7794

Date	10-11-13	Sec.	24	Twp.	14	Range	19	County	Ellis	State	Ks	On Location		Finish	4:15 PM
Lease								Location							
Wilma-schoendallas								Haw's Ks - S to Mt. Pleasant, 3W							
Well No. 2-24								Owner of Hwy 183, 1/2 S, W/4 into							
Contractor Discovery 3								To Quality Oilwell Cementing, Inc.							
Type Job Plug								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 7 7/8"								Charge To Downing - Nelson							
Csg.								Depth							
Tbg. Size 4 1/2" D.P.								Depth 3775'							
Tool								Depth							
Cement Left in Csg.								Shoe Joint							
Meas Line								Displace H2O / mud							
<b>EQUIPMENT</b>															
Pumptrk 16 No. Cementer Billy								Common 162							
Bulktrk 8 No. Driver Chad								Poz. Mix 108							
Bulktrk p.u. No. Driver Rick								Gel. 10							
								Calcium							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks: 3775' - 50 SX								Hulls							
Rat Hole 1410' - 25 SX								Salt							
Mouse Hole 670' - 100 SX								Flowseal 67#							
Centralizers 275' - 40 SX								Kol-Seal							
Baskets 40' - 10 SX								Mud CLR 48							
D/V or Port Collar Rathole - 30 SX								CFL-117 or CD110 CAF 38							
Mousethole - 15 SX								Sand							
270 SX 60/40 4% Gel 1/4# Flt								Handling 280							
Cement did Circulate								Mileage							
<b>FLOAT EQUIPMENT</b>															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								1 - Dry hole plug							
								Pumptrk Charge plug							
								Mileage 7							
<b>QUALITY OILWELL CEMENTING</b>															
Signature <i>Alan Jacobson</i>												Tax			
												Discount			
												Total Charge			



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays KS 67601

ATTN: Al Downing

**24-14s-19w Ellis,KS**

**Wilma Shoendaller #2-24**

Start Date: 2013.10.09 @ 08:10:00

End Date: 2013.10.09 @ 15:19:00

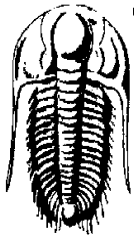
Job Ticket #: 54863                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.16 @ 09:42:27



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

ATTN: Al Dow ning

Job Ticket: 54863

**DST#: 1**

Test Start: 2013.10.09 @ 08:10:00

## GENERAL INFORMATION:

Formation: " D "

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:10:45

Time Test Ended: 15:19:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bob Hamel

Unit No: 44

**Interval: 3476.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 2127.00 ft (KB)

Total Depth: 3500.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8875 Outside**

Press @RunDepth: 653.31 psig @ 3477.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.09 End Date: 2013.10.09

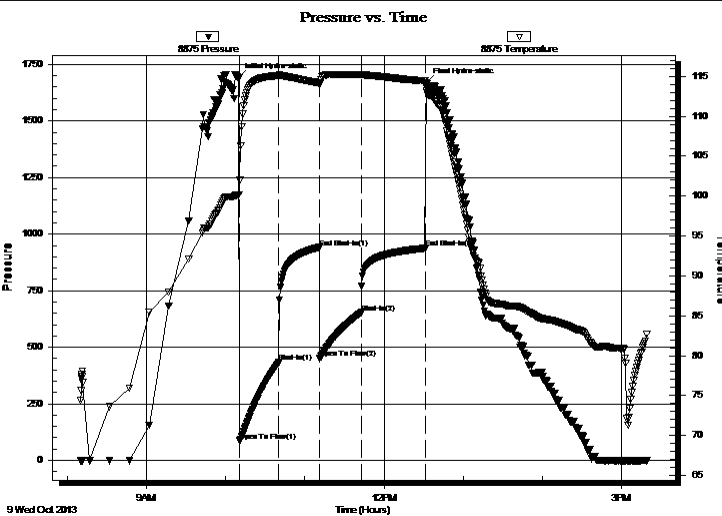
Last Calib.: 2013.10.09

Start Time: 08:10:05 End Time: 15:18:59

Time On Btm: 2013.10.09 @ 10:10:00

Time Off Btm: 2013.10.09 @ 12:32:00

**TEST COMMENT:** I.F. - 30 - B.O.B. in 19 min  
I.S.I - 30 - W.S.B.B. @ 8 min  
F.F. - 30 - B.O.B. in 3 min  
F.S.I. 45 - No B.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1689.41	100.12	Initial Hydro-static
1	86.49	101.99	Open To Flow (1)
31	432.62	115.10	Shut-In(1)
61	940.82	114.20	End Shut-In(1)
62	450.13	114.01	Open To Flow (2)
93	653.31	115.21	Shut-In(2)
141	937.20	114.40	End Shut-In(2)
142	1669.65	113.27	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1335.00	Water 100%	18.44
5.00	Clean Oil 100%	0.07

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

Job Ticket: 54863

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2013.10.09 @ 08:10:00

## Tool Information

Drill Pipe:	Length: 3455.00 ft	Diameter: 3.80 inches	Volume: 48.46 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	22000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.62 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3476.00 ft			Final	58000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	24.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3462.00	
Hydraulic tool	5.00			3467.00	
Packer	5.00			3472.00	19.00 Bottom Of Top Packer
Packer	4.00			3476.00	
Stubb	1.00			3477.00	
Recorder	0.00	6669	Inside	3477.00	
Recorder	0.00	8875	Outside	3477.00	
Perforations	20.00			3497.00	
Bullnose	3.00			3500.00	24.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>43.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

Job Ticket: 54863

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2013.10.09 @ 08:10:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
1335.00	Water 100%	18.435
5.00	Clean Oil 100%	0.070

Total Length: 1340.00 ft      Total Volume: 18.505 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: R.W. .055 @ 82.3 DEG. WTR. SAL. 135,000

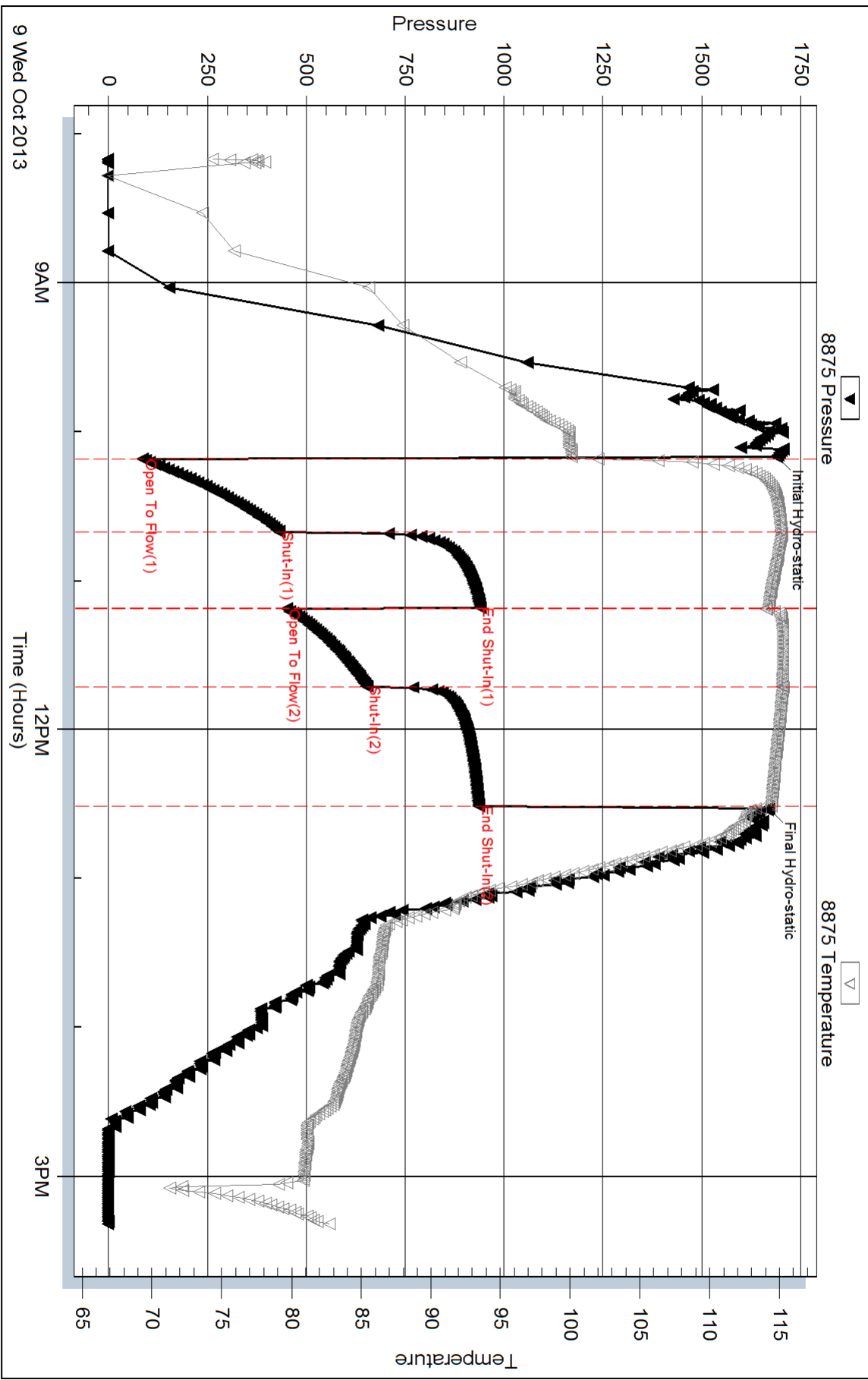
Serial #: 8875

Outside Dow nting-Nelson Oil Company

24-14s-19w Ellis, KS

DST Test Number: 1

# Pressure vs. Time



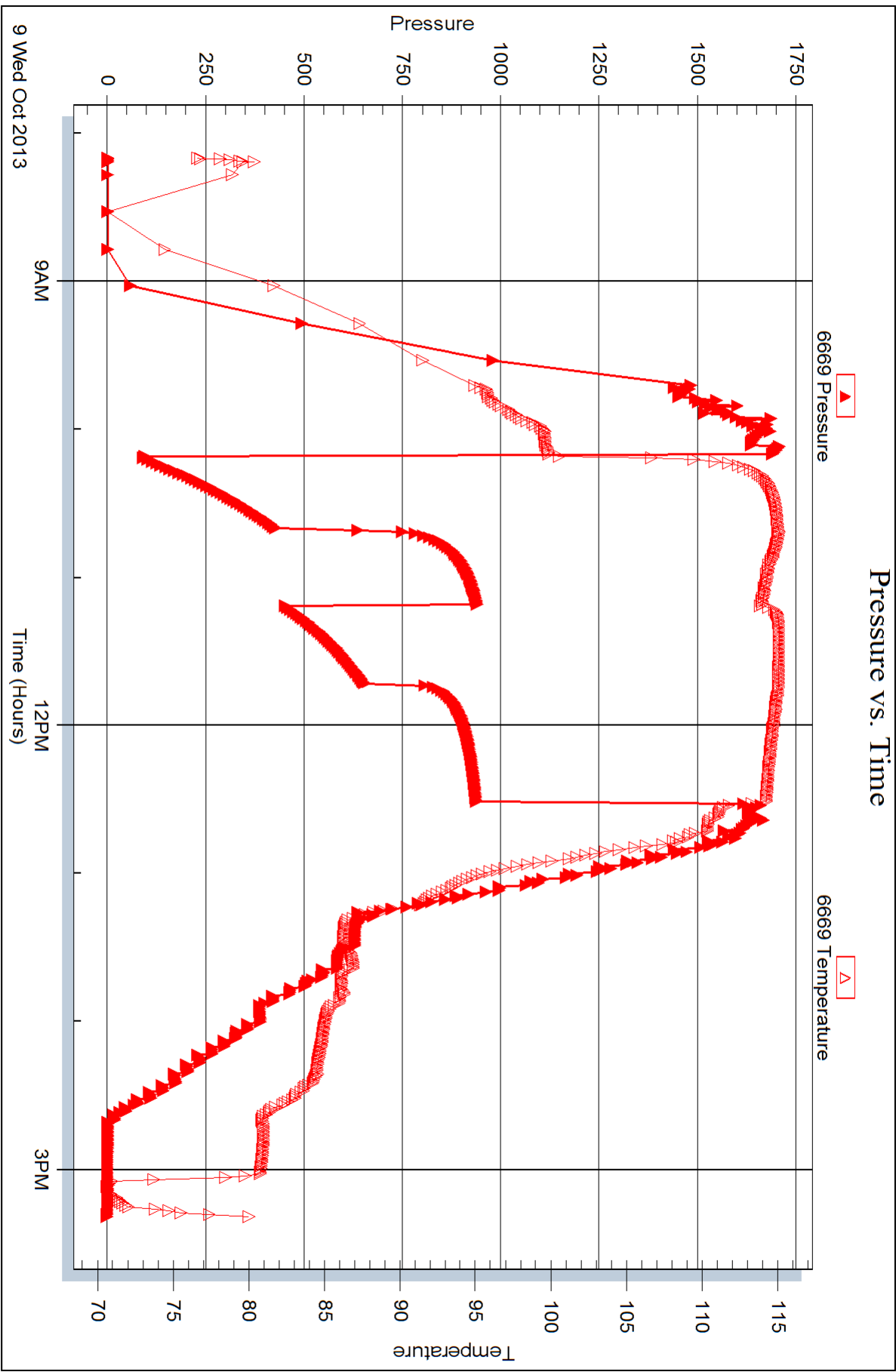
Serial #: 6669

Inside

Dow n/mg-Nelson Oil Company

24-14s-19w Ellis, KS

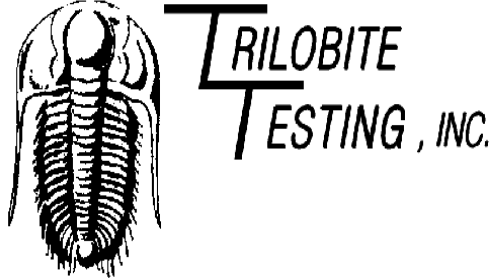
DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54863

Printed: 2013.10.16 @ 09:42:29



## DRILL STEM TEST REPORT

Prepared For: **Downing-Nelson Oil Company**

PO Box 1019  
Hays KS 67601

ATTN: Al Downing

**24-14s-19w Ellis,KS**

**Wilma Shoendaller #2-24**

Start Date: 2013.10.10 @ 05:05:05

End Date: 2013.10.10 @ 10:02:29

Job Ticket #: 54864                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.16 @ 09:40:55



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

Job Ticket: 54864

**DST#: 2**

ATTN: Al Dow ning

Test Start: 2013.10.10 @ 05:05:05

## GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:32:00

Time Test Ended: 10:02:29

Test Type: Conventional Bottom Hole (Reset)

Tester: BOB Hamel

Unit No: 44

**Interval: 3587.00 ft (KB) To 3630.00 ft (KB) (TVD)**

Reference Elevations: 2127.00 ft (KB)

Total Depth: 3630.00 ft (KB) (TVD)

2119.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 6669**

**Inside**

Press @ Run Depth: 15.65 psig @ 3591.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.10

End Date:

2013.10.10

Last Calib.:

2013.10.10

Start Time: 05:05:05

End Time:

10:02:29

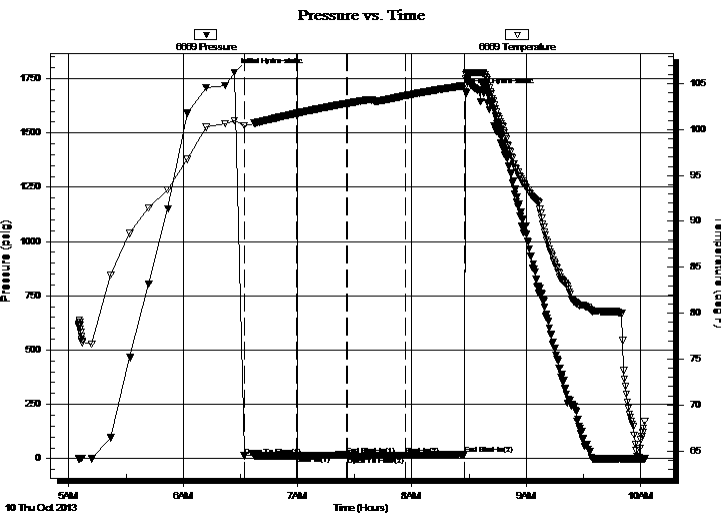
Time On Btm:

2013.10.10 @ 06:27:00

Time Off Btm:

2013.10.10 @ 08:28:30

**TEST COMMENT:** I.F. - 30 - 1/4 " blow built to 1/2 " in 30 min  
I.S.I - 30 - No B.B.  
F.F. - 30 - No blow @ 10 min flushed tool-no blow  
F.S.I. - 30 - No B.B.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1778.57	100.95	Initial Hydro-static
5	13.26	100.46	Open To Flow (1)
33	13.54	101.76	Shut-In(1)
59	17.73	102.85	End Shut-In(1)
60	11.28	102.86	Open To Flow (2)
90	15.65	103.69	Shut-In(2)
121	20.81	104.79	End Shut-In(2)
122	1686.95	106.00	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD / WITH A SCUM OF OIL	0.02

## Gas Rates

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

Job Ticket: 54864

**DST#: 2**

ATTN: Al Dow ning

Test Start: 2013.10.10 @ 05:05:05

## Tool Information

Drill Pipe:	Length: 3565.00 ft	Diameter: 3.80 inches	Volume: 50.01 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 50.17 bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3587.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	43.00 ft			
Tool Length:	62.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3573.00	
Hydraulic tool	5.00			3578.00	
Packer	5.00			3583.00	19.00 Bottom Of Top Packer
Packer	4.00			3587.00	
Stubb	1.00			3588.00	
Perforations	2.00			3590.00	
Change Over Sub	1.00			3591.00	
Recorder	0.00	6669	Inside	3591.00	
Recorder	0.00	8875	Outside	3591.00	
Drill Pipe	31.00			3622.00	
Change Over Sub	1.00			3623.00	
Perforations	4.00			3627.00	
Bullnose	3.00			3630.00	43.00 Bottom Packers & Anchor

**Total Tool Length: 62.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Company

**Wilma Shoendaller #2-24**

PO Box 1019  
Hays KS 67601

**24-14s-19w Ellis,KS**

Job Ticket: 54864

**DST#: 2**

ATTN: Al Dow ning

Test Start: 2013.10.10 @ 05:05:05

## 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: 47.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD / WITH A SCUM OF OIL	0.025

Total Length: 5.00 ft      Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

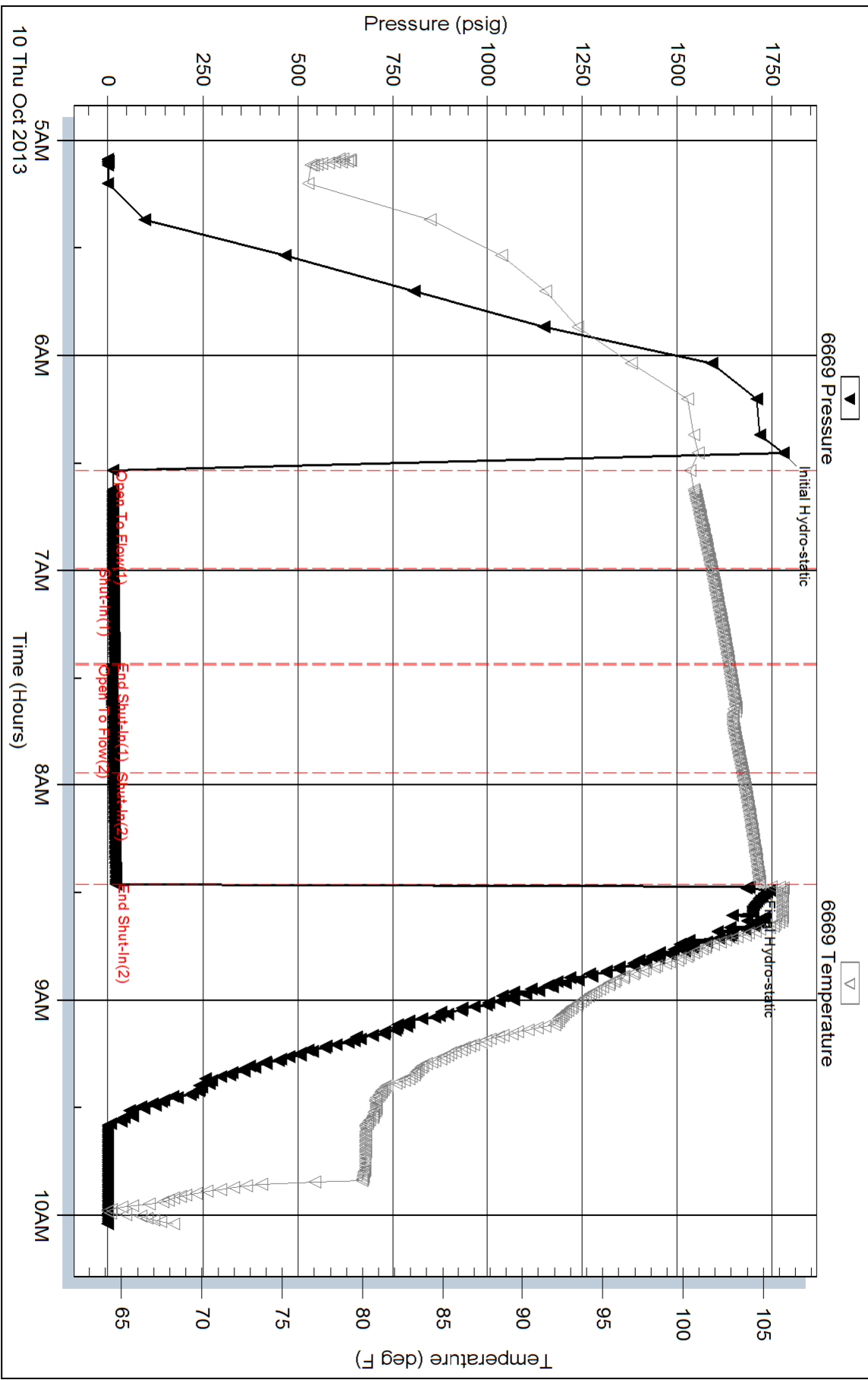
Laboratory Name:

Laboratory Location:

Recovery Comments:



# Pressure vs. Time





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **54863**

Well Name & No. Wilma Schoendatter #2-24 Test No. 1 Date 10-9-13  
 Company Downing Nelson Elevation 2127 KB 2119 GL  
 Address P.O. Box 1019 / 111 West 10<sup>th</sup> Street Hays, 67601  
 Co. Rep / Geo. AL Downing Rig Discovery Rig 4  
 Location: Sec. 24 Twp. 14s Rge. 19w Co. Ellis State Ks.

Interval Tested 3476-3500 Zone Tested "D"  
 Anchor Length 24 Drill Pipe Run 3455 Mud Wt. 9  
 Top Packer Depth 3471 Drill Collars Run 32 Vis 54  
 Bottom Packer Depth 3476 Wt. Pipe Run \_\_\_\_\_ WL 8.0  
 Total Depth 3500 Chlorides 1000 ppm System LCM 1.1/2

Blow Description I.F. - 30 - 1/4 INT. Blow Bu.H to B.O.B. in 19 min.  
I.S.I - 30 - Weak Surface B.B. @ 8 min  
E.F. - 30 - 1/2 INT. Blow. Bu.H to B.O.B. in 3 min.  
E.S.I - 45 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>C/O</u>		<u>100</u>		
<u>1335</u>	<u>water</u>			<u>100</u>	
_____	_____				
_____	_____				
_____	_____				

Rec Total 1340 BHT 113 Gravity \_\_\_\_\_ API RW .055 @ 82.03 F Chlorides 135,000 ppm  
 (A) Initial Hydrostatic 1,689  Test 1150 T-On Location 07:00:00  
 (B) First Initial Flow 86  Jars T-Started 08:10:00  
 (C) First Final Flow 433  Safety Joint T-Open 10:12:00  
 (D) Initial Shut-In 941  Circ Sub T-Pulled 12:27:00  
 (E) Second Initial Flow 450  Hourly Standby T-Out 15:20:00  
 (F) Second Final Flow 653  Mileage 10 R.T. 15.50 Comments \_\_\_\_\_  
 (G) Final Shut-In 937  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,670  Straddle \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Packer \_\_\_\_\_  
 Final Shut-In 45  Extra Recorder \_\_\_\_\_  
 Sub Total 0  
 Total 1165.50  
 MP/DST Disc't \_\_\_\_\_  
 Sub Total 1165.50

Approved By \_\_\_\_\_ Our Representative Butt Name

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. 54864

Well Name & No. Wilma Schoendaller #2-24 Test No. 2 Date 10-10-13  
 Company Downing Nelson Elevation 2440 KB 2432 GL  
 Address P.O. Box 1019 / West 10<sup>th</sup> Street Hays 67601  
 Co. Rep / Geo. Al Downing Rig D. Discovery Rig 3  
 Location: Sec. 24 Twp. 14S Rge. 19W Co. Ellis State Ks.

Interval Tested 3587-3630 Zone Tested Lans "I-J"  
 Anchor Length 43 Drill Pipe Run 3565 Mud Wt. 9.0  
 Top Packer Depth 3582 Drill Collars Run 32 Vis 47  
 Bottom Packer Depth 3587 Wt. Pipe Run --- WL 8.8  
 Total Depth 3630 Chlorides 5000 ppm System LCM 1

Blow Description I.F. - 30 - 1/4 IN. Initial Blow Built to 1/2 in. 30 min.  
I.S.I - 30 - No B.B.  
F.F. - 30 - No Blow @ 10 min. flushed tool / surge / no blow  
F.S.I - 30 - No B.B.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud w/Scum of oil</u>				
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 105 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1779  Test 1150 T-On Location 04:12:00  
 (B) First Initial Flow 13  Jars \_\_\_\_\_ T-Started 05:05:00  
 (C) First Final Flow 14  Safety Joint \_\_\_\_\_ T-Open 06:27:00  
 (D) Initial Shut-In 12  Circ Sub \_\_\_\_\_ T-Pulled 08:27:00  
 (E) Second Initial Flow 11  Hourly Standby \_\_\_\_\_ T-Out 10:02:29  
 (F) Second Final Flow 16  Mileage 10 RT 31.00 Comments \_\_\_\_\_  
 (G) Final Shut-In 21  Sampler \_\_\_\_\_ loaded tools 10/11 9:32  
 (H) Final Hydrostatic 1748  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 30  Day Standby \_\_\_\_\_ Total 1181  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 30 Sub Total 1181

Approved By \_\_\_\_\_ Our Representative B. H. Hume

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