



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1182805  
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: \_\_\_\_\_

1182805

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	DeWald 1-13
Doc ID	1182805

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density/ Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	DeWald 1-13
Doc ID	1182805

Tops

Name	Top	Datum
Top Anhydrite	1358'	+804
Base Anhydrite	1392'	+770
Topeka	3198'	-1036
Heebner	3488'	-1326
LKC	3533'	-1371
BKC	3803'	-1641
Marmaton	3848'	-1686
Conglomerate Sand	3886'	-1724
Arbuckle	3911'	-1749
Conglomerate Fill	3932'	-1770
Arb	3978'	-1816





# 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. 7463

Date	10-30-13	Sec.	13	Twp.	17	Range	19	County	Rush	State	KS	On Location		Finish	10:30pm				
Lease								Well No.		Owner									
Dewald								1-13		To Quality Oilwell Cementing, Inc.									
Contractor								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
D'Sweeney #3																			
Type Job								Charge To											
Surface								Downing/Olson											
Hole Size				T.D.				Street				City				State			
12 1/4				1365															
Csg.				Depth				Cement Amount Ordered											
8 5/8				1363				475 com 3/CC 2/62											
Tbg. Size				Depth				Cement Left in Csg.				Shoe Joint							
								41.44				41.44							
Tool				Depth				Meas Line				Displace							
												843L							
EQUIPMENT								Common											
Pumptrk 17 No. Cementer								475											
Helper Craig								Poz. Mix											
Bulktrk No. Driver								Gel. 9											
Eddy								Calcium 17											
Bulktrk 19 No. Driver								Hulls											
Driver Chad								Salt											
JOB SERVICES & REMARKS								Flowseal											
Remarks:								Kol-Seal											
Rat Hole								Mud CLR 48											
Mouse Hole Cement Circulated!								CFL-117 or CD110 CAF 38											
Centralizers								Sand											
Baskets								Handling 501											
D/V or Port Collar								Mileage											
8 5/8 on bottom Etc Circulation								FLOAT EQUIPMENT											
Mix 4255ic + Displace Plus								Guide Shoe 8 5/8											
*Cement Circulated*								Centralizer 2											
Phg lands @ 900ft Shut in @ 700ft								Baskets Rubber Plug											
LBS+ Circulation a Total of 132L								AFU Inserts Rubber Plate											
								Float Shoe											
								Latch Down											
								Pumptrk Charge Long Surface											
								Mileage 33											
								Tax											
								Discount											
								Total Charge											
Signature John D. Miller																			

JOB LOG

SWIFT Services, Inc.

DATE 4/NOV/13 PAGE NO.

CUSTOMER DOWNING & NELSON WELL NO. LEASE DEWALD 1-13 JOB TYPE 5' OHONG STRING TICKET NO. 25782

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							ON LOCATION
								START PIPE - 5 1/2 - 14 1/2
								RIDE 4000 SET @ 3999
								SHOET. 19.85'
								CENTRALIZERS 1,3,5,7,9,11
	2100							DROP BALL - CIRCULATE
	2130	6	12		✓	300		Pump 500 gal MUD FLUSH
		6	20		✓	300		Pump 20 Bbl HCL FLUSH
	2134		7.5					PLUG RH - 30sx, MH - 20sx
	2140	4	30		✓			MIX 125sx EA-2
	2151							WASH OUT Pump & LINES
	2152	6			✓			START DISPLACING PLUG
	2210	0	97		✓	1500		PLUG DOWN LATCH PLUG IN.
	2213				✓			RELEASE PSI - DRY
	2217							WASH TRUCK
	2245							JOB COMPLETE
								THANKS #115
								JASON DAVE ISAAC



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays, KS 67601

ATTN: Al Downing

### **DeWald #1-13**

### **13-17s-19w Rush,KS**

Start Date: 2013.11.04 @ 03:27:16

End Date: 2013.11.04 @ 11:37:46

Job Ticket #: 55769                      DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.06 @ 15:44:39



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning- Nelson Oil Co., Inc.

**13-17s-19w Rush,KS**

PO Box 1019  
Hays, KS 67601

**DeWald #1-13**

Job Ticket: 55769

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2013.11.04 @ 03:27:16

## GENERAL INFORMATION:

Formation: **Reagan**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:50:46

Time Test Ended: 11:37:46

Test Type: Conventional Straddle (Initial)

Tester: Brannan L

Unit No: 70

**Interval: 3870.00 ft (KB) To 3915.00 ft (KB) (TVD)**

Reference Elevations: 2163.00 ft (KB)

Total Depth: 4003.00 ft (KB) (TVD)

2155.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8700 Outside**

Press @RunDepth: 634.99 psig @ 3906.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.04

End Date:

2013.11.04

Last Calib.:

2013.11.04

Start Time: 03:27:21

End Time:

11:37:45

Time On Btm:

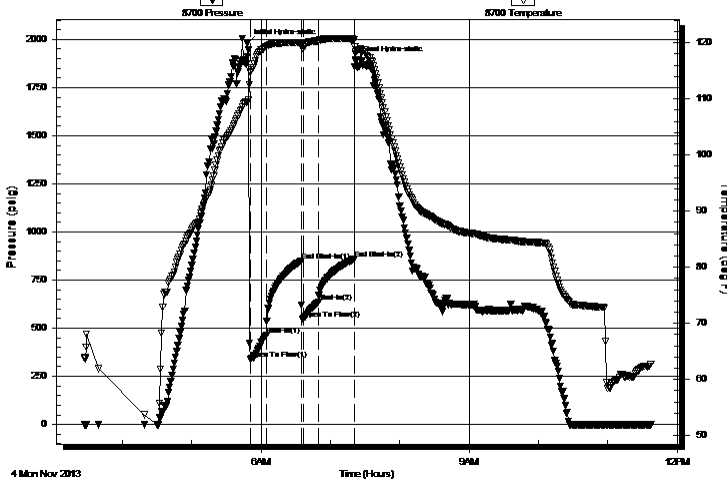
2013.11.04 @ 05:48:16

Time Off Btm:

2013.11.04 @ 07:21:31

**TEST COMMENT:** 15- IF- BOB 5 secs  
30- IS- Surface Blow  
15- FF- BOB 15 secs  
30- FSI- Surface blow

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1979.34	109.59	Initial Hydro-static
3	339.34	114.72	Open To Flow (1)
17	463.75	119.33	Shut-In(1)
47	850.85	119.97	End Shut-In(1)
48	548.17	118.96	Open To Flow (2)
62	634.99	120.34	Shut-In(2)
93	858.38	120.62	End Shut-In(2)
94	1892.56	118.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
1615.00	GWMCO, 5%W 10%G 10%M 75%O	21.80
0.00	35' GIP	0.00

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning- Nelson Oil Co., Inc.

**13-17s-19w Rush,KS**

PO Box 1019  
Hays, KS 67601

**DeWald #1-13**

Job Ticket: 55769

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2013.11.04 @ 03:27:16

## Tool Information

Drill Pipe:	Length: 3835.00 ft	Diameter: 3.75 inches	Volume: 52.39 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - 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:	65000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	54000.00 lb
Drill Pipe Above KB:	15.00 ft			Final	62000.00 lb
Depth to Top Packer:	3870.00 ft				
Depth to Bottom Packer:	3915.00 ft				
Interval betw een Packers:	45.00 ft				
Tool Length:	153.00 ft				
Number of Packers:	3	Diameter:	6.75 inches		
Tool Comments:					

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3851.00	
Shut In Tool	5.00			3856.00	
Hydraulic tool	5.00			3861.00	
Packer	5.00			3866.00	20.00 Bottom Of Top Packer
Packer	4.00			3870.00	
Stubb	1.00			3871.00	
Perforations	1.00			3872.00	
Change Over Sub	1.00			3873.00	
Drill Pipe	32.00			3905.00	
Change Over Sub	1.00			3906.00	
Recorder	0.00	8369	Inside	3906.00	
Recorder	0.00	8700	Outside	3906.00	
Perforations	5.00			3911.00	
Blank Off Sub	1.00			3912.00	
Blank Spacing	3.00			3915.00	45.00 Tool Interval
Packer	1.00			3916.00	
Stubb	1.00			3917.00	
Recorder	0.00	8374	Below	3917.00	
Perforations	17.00			3934.00	
Change Over Sub	1.00			3935.00	
Drill Pipe	64.00			3999.00	
Change Over Sub	1.00			4000.00	
Bullnose	3.00			4003.00	88.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>153.00</b>				





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning- Nelson Oil Co., Inc.

**13-17s-19w Rush,KS**

PO Box 1019  
Hays, KS 67601

**DeWald #1-13**

Job Ticket: 55769

**DST#: 1**

ATTN: Al Dow ning

Test Start: 2013.11.04 @ 03:27:16

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1615.00	GWMCO, 5%W 10%G 10%M 75%O	21.800
0.00	35' GIP	0.000

Total Length: 1615.00 ft      Total Volume: 21.800 bbl

Num Fluid Samples: 0

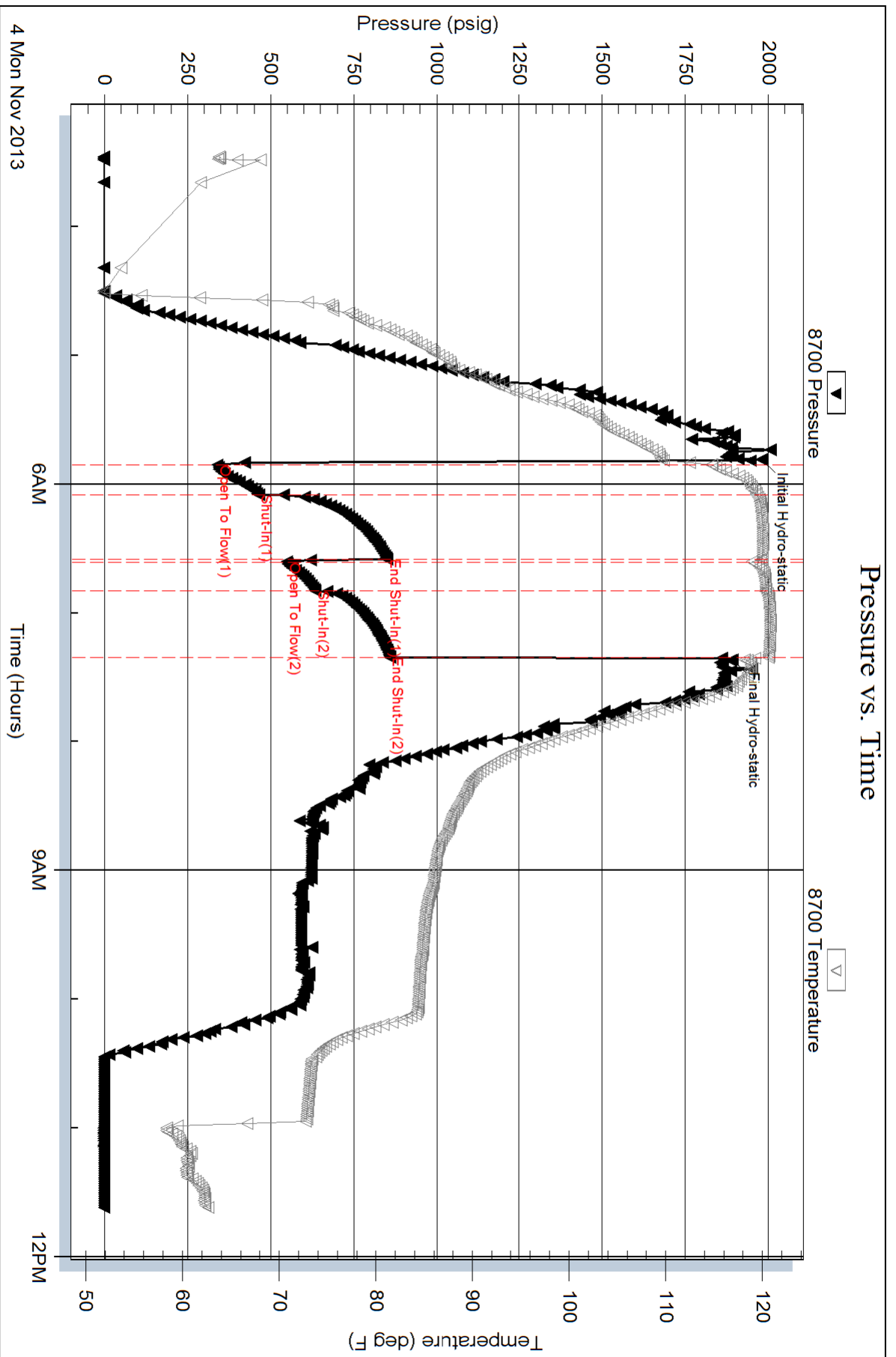
Num Gas Bombs: 0

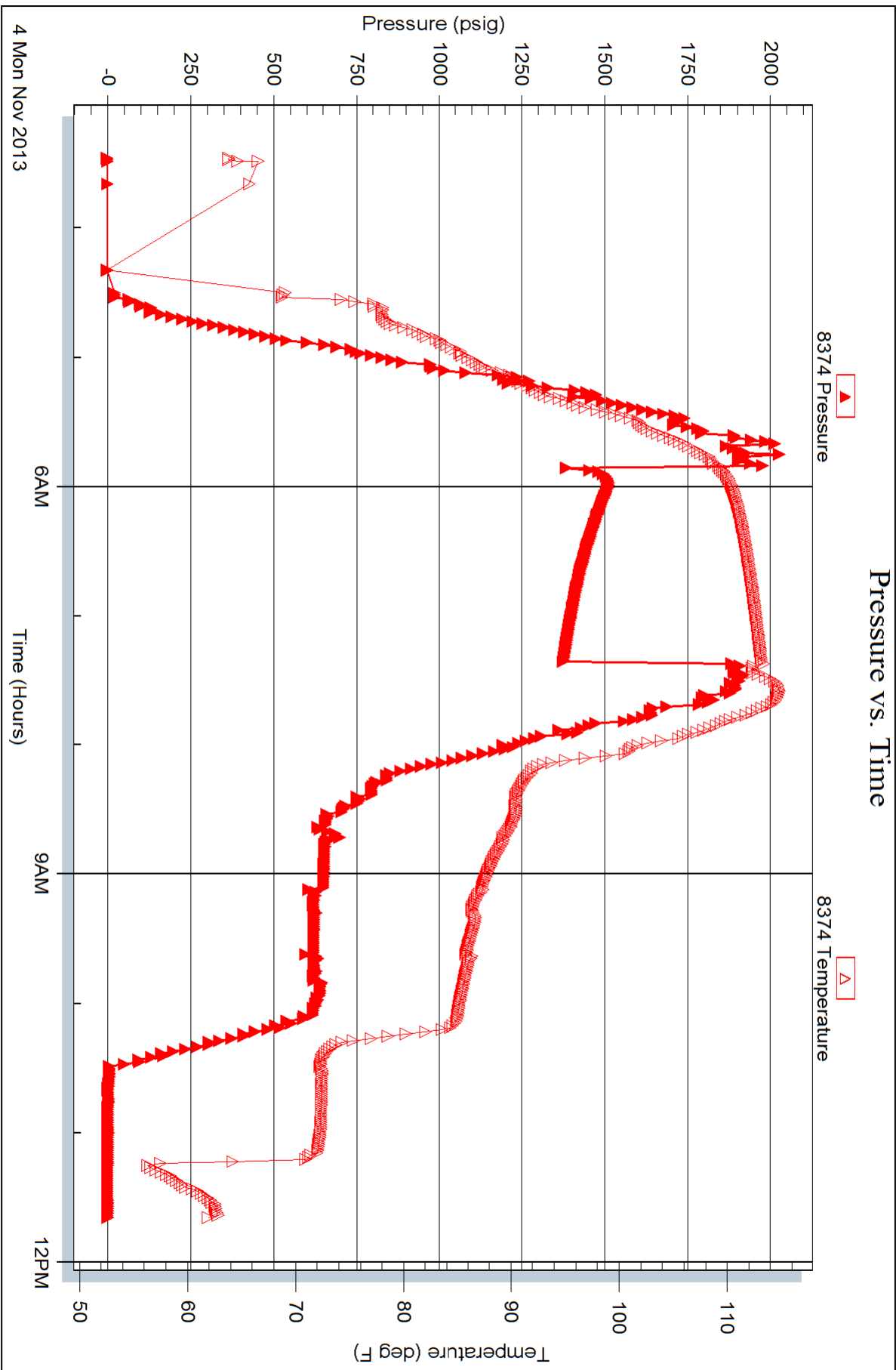
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





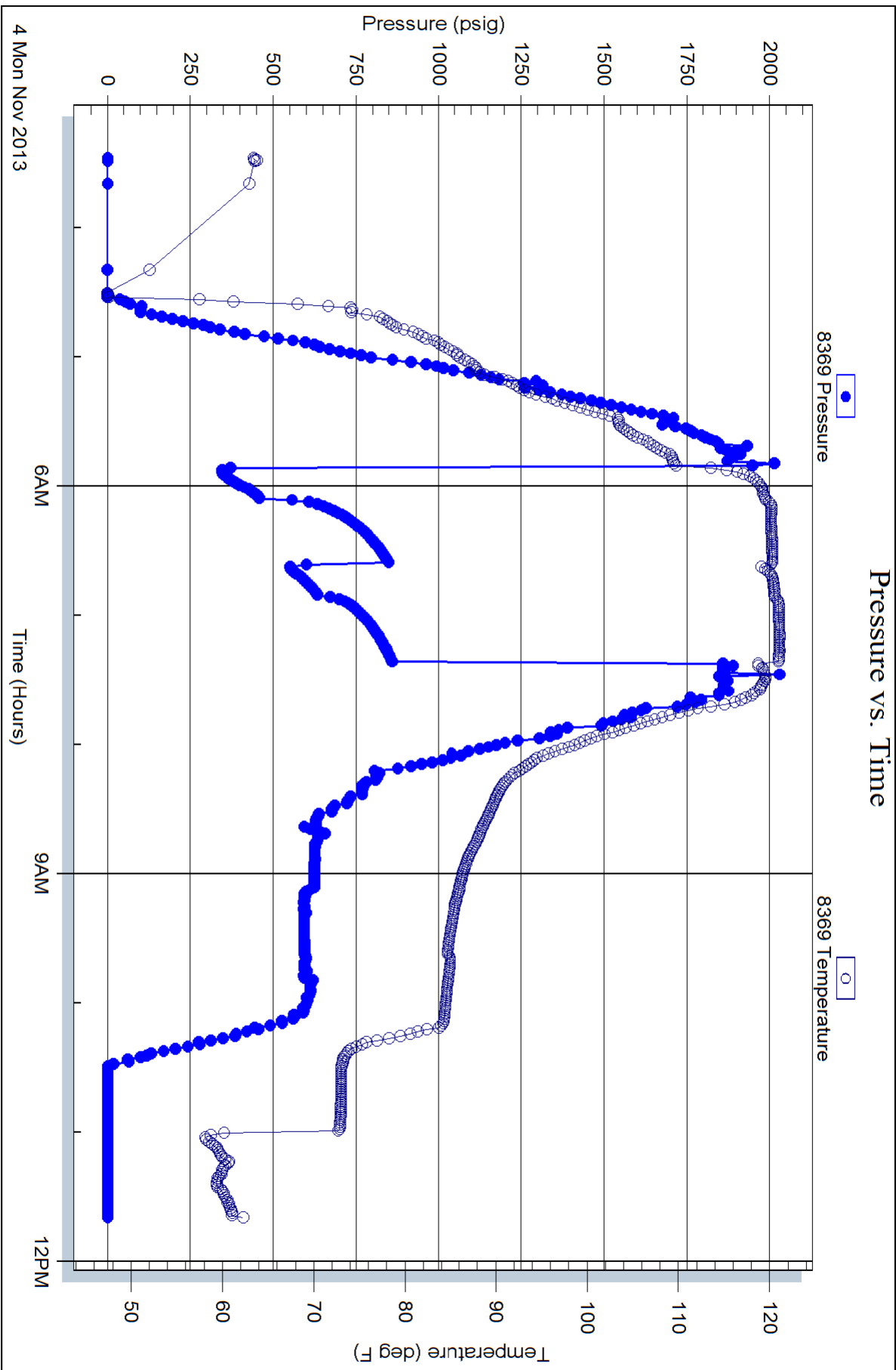
Serial #: 8369

Inside

Dow nings- Nelson Oil Co., Inc.

DeWald #1-13

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 55769

Well Name & No. DeWald #1-13 Test No. 1 Date 11/4/13  
 Company Powning-Nelson Oil Co. Inc Elevation 2163 KB 2155 GL  
 Address PO Box 1019 111 W. 10th St. Hays, KS 67601  
 Co. Rep / Geo. AI Downing Rig Discovery #3  
 Location: Sec. 13 Twp. 17S Rge. 19W Co. Rush State KS

Interval Tested 3870-3915 Zone Tested ~~3835~~ Reagan  
 Anchor Length 45' 88' Tail Drill Pipe Run 3835 Mud Wt. 9.2  
 Top Packer Depth 3865-3870 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 3915 Wt. Pipe Run --- WL 10.4  
 Total Depth 4003 Chlorides 5000 ppm System LCM 1.5#

Blow Description IF-BOB 5secs.  
ISI-Weak surface blow  
FF-BOB 15secs  
FSI-Surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1615</u>	<u>GWMCO</u>	<u>10</u>	<u>75</u>	<u>5</u>	<u>10</u>
	<u>35' GIP</u>	<u>100</u>			

Rec Total 1615 BHT 121° Gravity 40 API RW --- @ --- ° F Chlorides --- ppm

(A) Initial Hydrostatic <u>1979</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>0249</u>
(B) First Initial Flow <u>339</u>	<input type="checkbox"/> Jars	T-Started <u>0327</u>
(C) First Final Flow <u>464</u>	<input type="checkbox"/> Safety Joint	T-Open <u>0550</u>
(D) Initial Shut-In <u>851</u>	<input checked="" type="checkbox"/> Circ Sub <u>50</u>	T-Pulled <u>0720</u>
(E) Second Initial Flow <u>548</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1139</u>
(F) Second Final Flow <u>635</u>	<input checked="" type="checkbox"/> Mileage <u>54 RT</u> 83.70	Comments
(G) Final Shut-In <u>858</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1893</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	

Initial Open 15  
 Initial Shut-In 30  
 Final Flow 15  
 Final Shut-In 30

Ruined Shale Packer  
 Ruined Packer  
 Extra Packer  
 Extra Copies  
 Sub Total 0  
 Total 1983.70  
 MP/DST Disc't  
 Sub Total 1983.70

Approved By \_\_\_\_\_ Our Representative Branhan L

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.



