



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1182776
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: _____

1182776

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

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 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> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Sharon Walker 2-13
Doc ID	1182776

Tops

Name	Top	Datum
Top Anhydrite	1856'	+586
Base Anhydrite	1900'	+542
Topkea	3446'	-1004
Heebner	3662'	-1220
Toronto	3684'	-1242
LKC	3696'	-1254
BKC	3968'	-1496
Marmaton	4038'	-1596
Cherokee Shale	4095'	-1653

QUALITY OILWELL CEMENTING, INC.

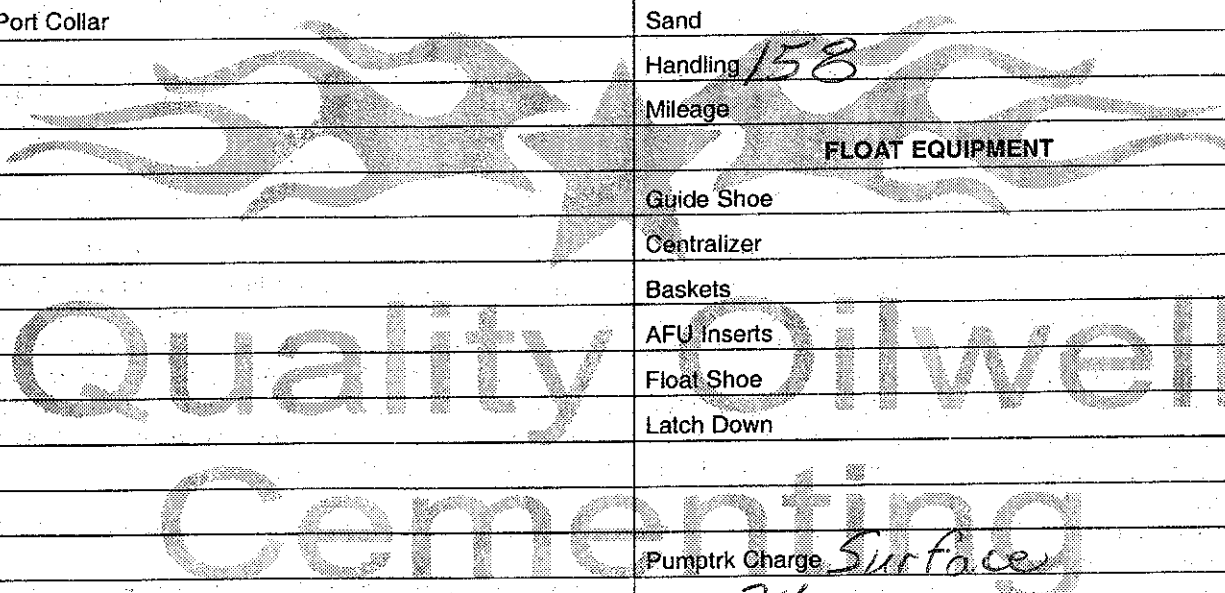
Federal Tax I.D.# 20-2886107

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

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

No. 7236

Date	11-11-13	Sec.	7	Twp.	10	Range	16	County	Trego	State	KS	On Location		Finish	12:15 PM
			13		12		23		Location Ogallah won old 40 to 280 th Rd, NW						
Lease	Sharon walker			Well No.	2-13			Owner	h2						
Contractor	Discovery #1							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.							
Type Job	Surface														
Hole Size	12 1/4			T.D.	223			Charge To	Downing - Nelson						
Csg.	8 5/8			Depth	222			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.	20			Shoe Joint	20			Cement Amount Ordered 150 sx com 3 1/2 cc 2 1/2 gel							
Meas Line				Displace	12 3/4 bbl										
EQUIPMENT								Common 150							
Pumptrk	5	No.		Cementer	Helper Lonnie w.			Poz. Mix							
Bulktrk	8	No.		Driver	Clayton			Gel. 3							
Bulktrk	PU	No.		Driver	Travis			Calcium 5							
JOB SERVICES & REMARKS								Hulls							
Remarks:	Cement did circulate							Salt							
Rat Hole								Flowseal							
Mouse Hole								Kol-Seal							
Centralizers								Mud CLR 48							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
								Handling 158							
								Mileage							
FLOAT EQUIPMENT															
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surfaces							
								Mileage 34							
												Tax			
												Discount			
												Total Charge			
X Signature Cliff Mashie															



JOB LOG

SWIFT Services, Inc.

DATE 11-18-13 PAGE NO.

CUSTOMER Dwain Nelson WELL NO. 2-13 LEASE Sharon Walker JOB TYPE 5 1/2 Two Stage TICKET NO. 25233

CHART NO.	TIME	RATE (BPM)	VOLUME (BBLS (GAL))	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							on location TD 4230 LTO 4234 SS 21 TP 4230 Insert 4209 DV 1836 top 58 5 1/2 x 14# Centralizers 1,3,5,8,10,12,14,57 Baskets, 2, 58
	1215							Start pipe
	1400							Drop Ball Break circulation Rotate
	1430	5	12		✓	300		Start Mud flush
		5	20		✓	300		Start KLL flush
		5	36		✓	300		Start Cement 150 SKS EA-2
	1452							Drop Plug wash out Pump Lines
	1454	6			✓	200		Start Displacement
		6	60		✓	200		Start mud
		6	82		✓			start KLL flush
	1515	6	102.6		✓	600 1500		land Plug Release Dry
	1515							Drop opening Plug
	1520		7/5					Plug All 30 SKS MH 15 SKS
	1530					1000		open DV
		5	86		✓	200		Start Cement 155 SKS SMD
	1600	5						Drop Plug wash out Pump + lines
	1602	5			✓	200		Start Displacement
		5	30		✓	400		Circulate Cement <u>25 SKS to pit</u>
	1615		44.7		✓	400 1500		land Plug Close DV
								wash up Mack up
	1645							Job Complete Thank You

Josh, David



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Sharon Walker #2-13

13-12s-23w-Trego,KS

Start Date: 2013.11.15 @ 06:28:11

End Date: 2013.11.15 @ 12:48:11

Job Ticket #: 55832 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.19 @ 12:00:43



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

ATTN: Ron Nelson

Job Ticket: 55832

DST#: 1

Test Start: 2013.11.15 @ 06:28:11

GENERAL INFORMATION:

Formation: **LKC C-D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:16:01

Time Test Ended: 12:48:11

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3717.00 ft (KB) To 3760.00 ft (KB) (TVD)

Reference Elevations: 2442.00 ft (KB)

Total Depth: 3760.00 ft (KB) (TVD)

2433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8897

Inside

Press@RunDepth: 50.59 psig @ 3723.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.15

End Date:

2013.11.15

Last Calib.:

2013.11.15

Start Time: 06:28:12

End Time:

12:48:11

Time On Btm:

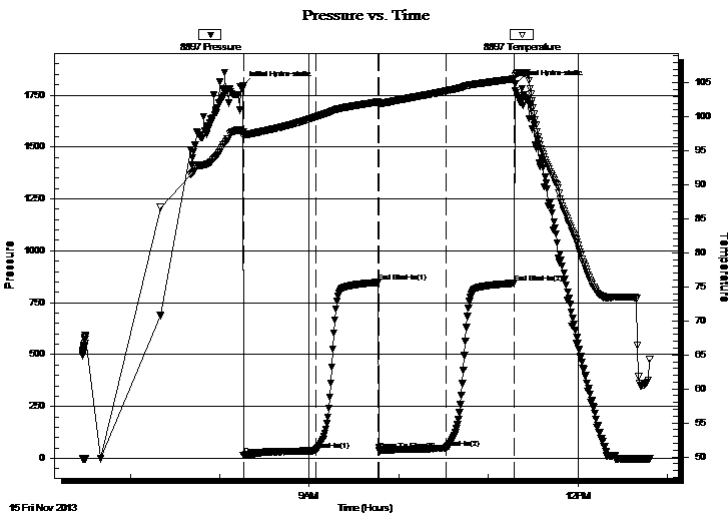
2013.11.15 @ 08:15:41

Time Off Btm:

2013.11.15 @ 11:17:41

TEST COMMENT: Fair surface blow built to 5"
Dead no blow back
Fair surface blow built to 5"
Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1793.57	97.81	Initial Hydro-static
1	13.90	97.37	Open To Flow (1)
49	37.30	99.96	Shut-In(1)
91	847.83	102.20	End Shut-In(1)
91	39.57	101.98	Open To Flow (2)
137	50.59	103.80	Shut-In(2)
182	843.79	105.59	End Shut-In(2)
182	1802.60	106.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	10%O 90%M	0.86
0.00	40 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

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55832

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.11.15 @ 06:28:11

Tool Information

Drill Pipe:	Length: 3694.00 ft	Diameter: 3.80 inches	Volume: 51.82 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 66000.00 lb
			<u>Total Volume: 51.96 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3717.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	43.00 ft			
Tool Length:	63.00 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			3702.00	
Hydraulic tool	5.00			3707.00	
Packer	5.00			3712.00	20.00 Bottom Of Top Packer
Packer	5.00			3717.00	
Stubb	1.00			3718.00	
Perforations	5.00			3723.00	
Recorder	0.00	8897	Inside	3723.00	
Recorder	0.00	8898	Outside	3723.00	
Change Over Sub	1.00			3724.00	
Drill Pipe	32.00			3756.00	
Change Over Sub	1.00			3757.00	
Bullnose	3.00			3760.00	43.00 Bottom Packers & Anchor

Total Tool Length: 63.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55832

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.11.15 @ 06:28:11

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: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1250.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
80.00	10%O 90%M	0.858
0.00	40 GIP	0.000

Total Length: 80.00 ft Total Volume: 0.858 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

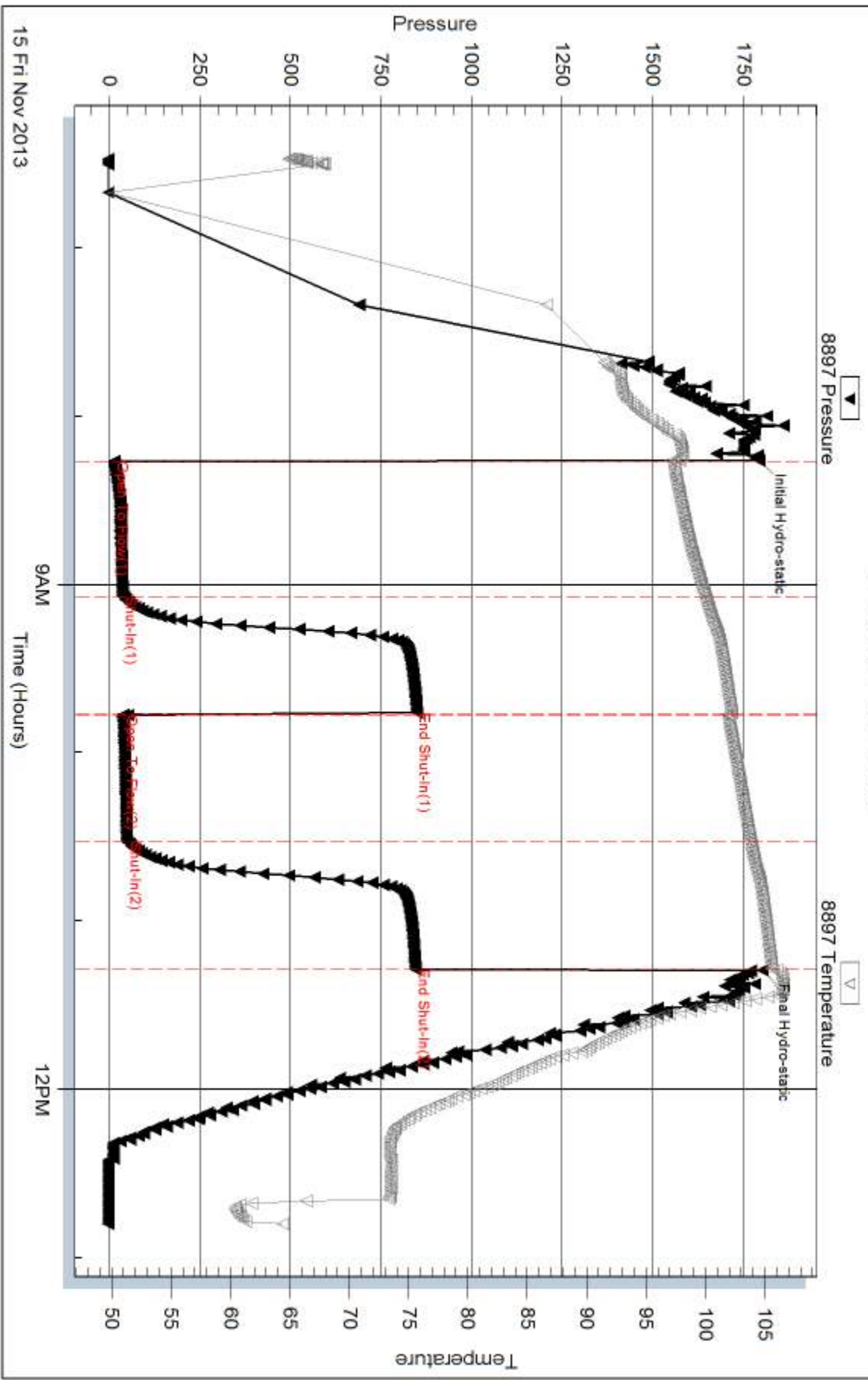
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

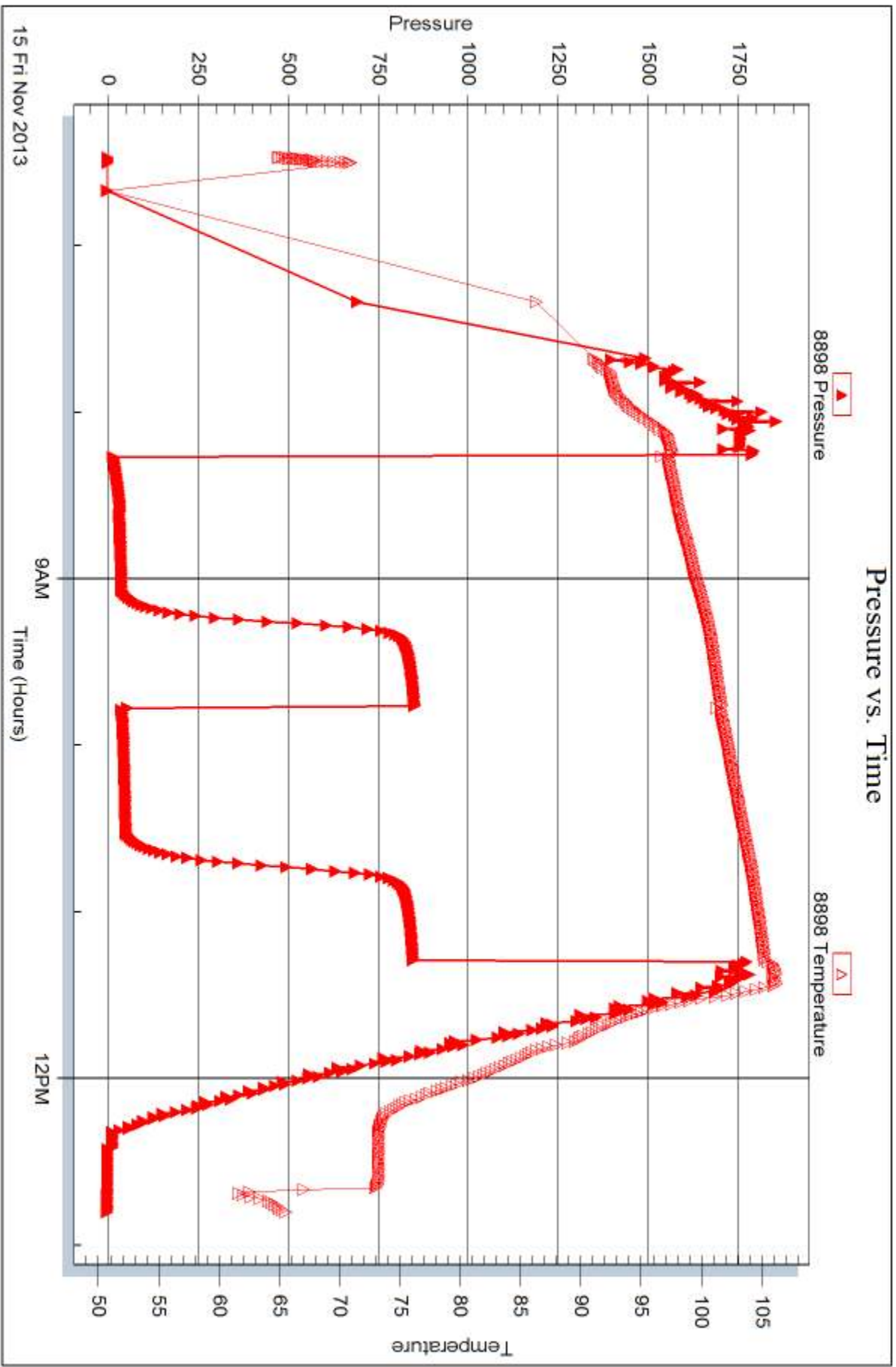


Serial #: 8898

Outside Dow nting Nelson Oil Co Inc

Sharon Walker #2-13

DST Test Number: 1



15 Fri Nov 2013

9AM

Time (Hours)

12PM



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Sharon Walker #2-13

13-12s-23w-Trego,KS

Start Date: 2013.10.15 @ 18:42:55

End Date: 2013.10.16 @ 01:08:25

Job Ticket #: 55833 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.11.19 @ 12:00:09



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

ATTN: Ron Nelson

Job Ticket: 55833

DST#: 2

Test Start: 2013.10.15 @ 18:42:55

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:41:05

Time Test Ended: 01:08:25

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3756.00 ft (KB) To 3775.00 ft (KB) (TVD)

Reference Elevations: 2442.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8897

Inside

Press@RunDepth: 23.30 psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.15

End Date:

2013.10.16

Last Calib.:

2013.11.16

Start Time:

18:42:56

End Time:

01:08:25

Time On Btm:

2013.10.15 @ 20:40:55

Time Off Btm:

2013.10.15 @ 23:41:15

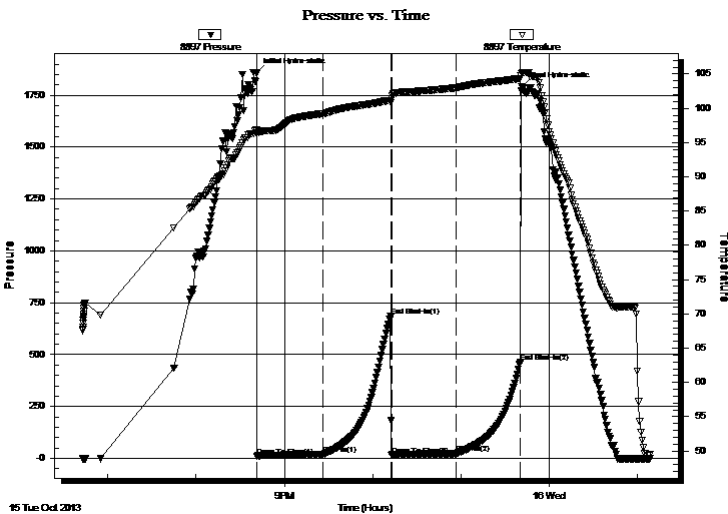
TEST COMMENT: Fair surface blow built to 4 1/2"

Dead no blow back

Fair surface blow built to 6"

Dead no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1857.40	96.92	Initial Hydro-static
1	10.59	96.29	Open To Flow (1)
45	19.51	99.20	Shut-In(1)
92	683.96	101.13	End Shut-In(1)
92	13.76	101.44	Open To Flow (2)
136	23.30	103.00	Shut-In(2)
180	461.64	104.37	End Shut-In(2)
181	1789.92	105.12	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	2%G 50%O 48%M	0.30
0.00	80 GIP	0.00

* 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

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55833

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.10.15 @ 18:42:55

Tool Information

Drill Pipe:	Length: 3719.00 ft	Diameter: 3.80 inches	Volume: 52.17 bbl	Tool Weight: 2000.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 68000.00 lb
			<u>Total Volume: 52.31 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3756.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	39.00 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			3741.00	
Hydraulic tool	5.00			3746.00	
Packer	5.00			3751.00	20.00 Bottom Of Top Packer
Packer	5.00			3756.00	
Stubb	1.00			3757.00	
Recorder	0.00	8897	Inside	3757.00	
Recorder	0.00	8898	Outside	3757.00	
Perforations	15.00			3772.00	
Bullnose	3.00			3775.00	19.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55833

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.10.15 @ 18:42:55

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: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

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
40.00	2%G 50%O 48%M	0.297
0.00	80 GIP	0.000

Total Length: 40.00 ft Total Volume: 0.297 bbl

Num Fluid Samples: 0

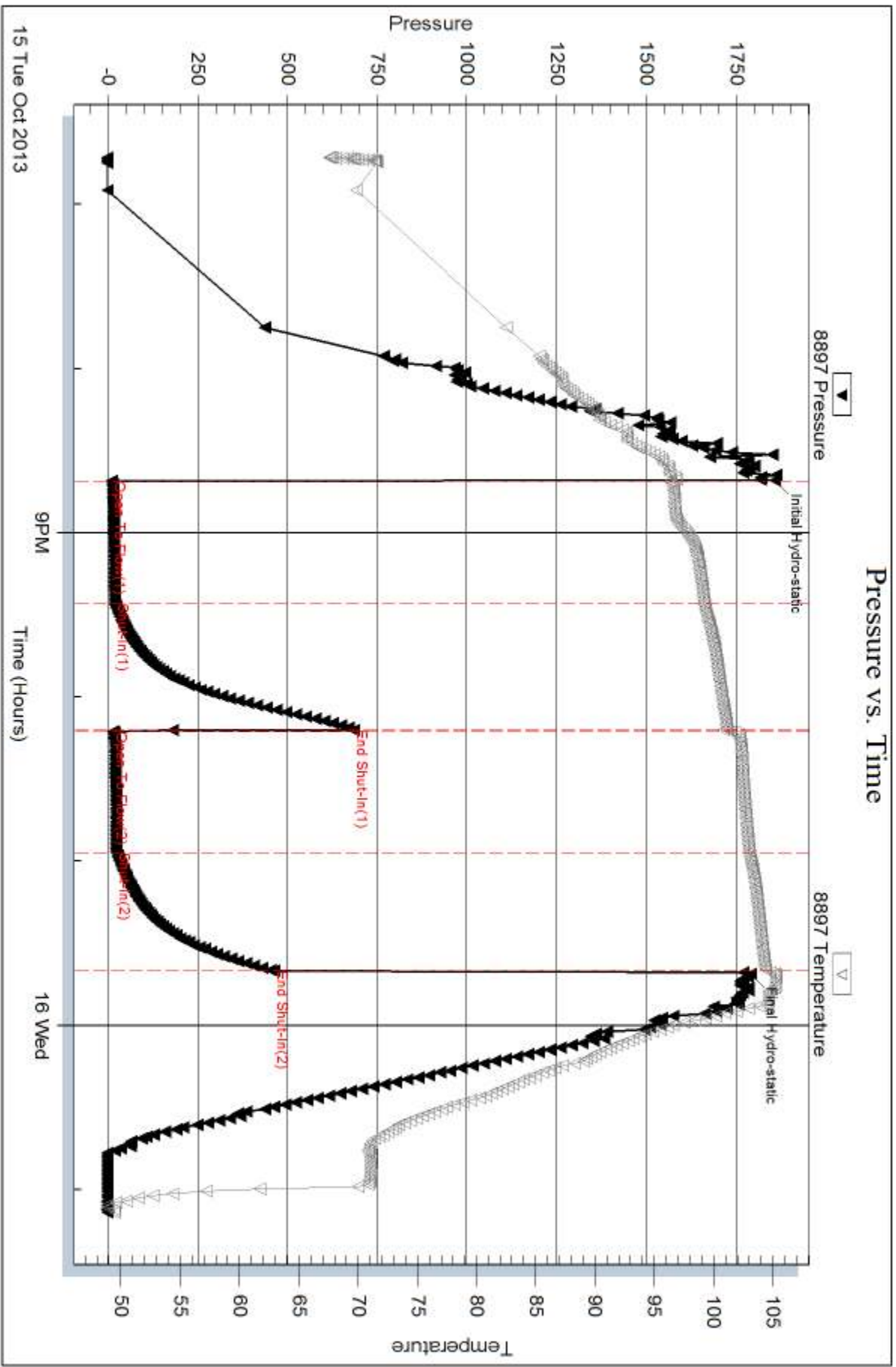
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

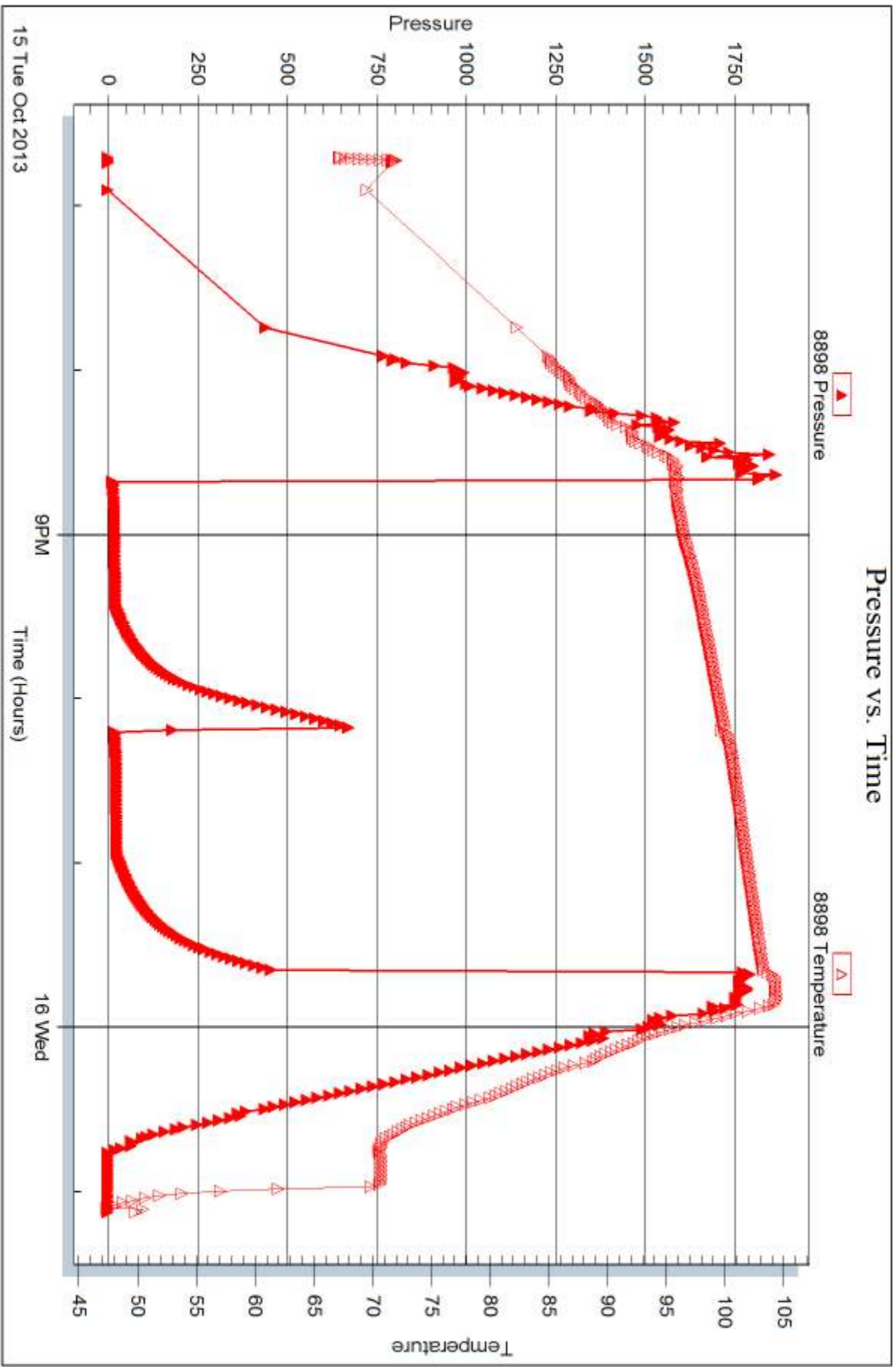


Serial #: 8898

Outside Dow n ing Nelson Oil Co Inc

Sharon Walker #2-13

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Sharon Walker #2-13

13-12s-23w-Trego,KS

Start Date: 2013.11.16 @ 12:20:55

End Date: 2013.11.16 @ 18:59:04

Job Ticket #: 55834 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.11.19 @ 11:59:32



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

ATTN: Ron Nelson

Job Ticket: 55834

DST#: 3

Test Start: 2013.11.16 @ 12:20:55

GENERAL INFORMATION:

Formation: **LKC E-F**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:03:55

Time Test Ended: 18:59:04

Test Type: Conventional Straddle (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3756.00 ft (KB) To 3786.00 ft (KB) (TVD)

Reference Elevations: 2442.00 ft (KB)

Total Depth: 3890.00 ft (KB) (TVD)

2433.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: 8897

Inside

Press@RunDepth: 140.51 psig @ 3757.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.16

End Date:

2013.11.16

Last Calib.:

2013.11.16

Start Time: 12:20:56

End Time:

18:59:05

Time On Btm:

2013.11.16 @ 14:03:35

Time Off Btm:

2013.11.16 @ 16:34:45

TEST COMMENT:

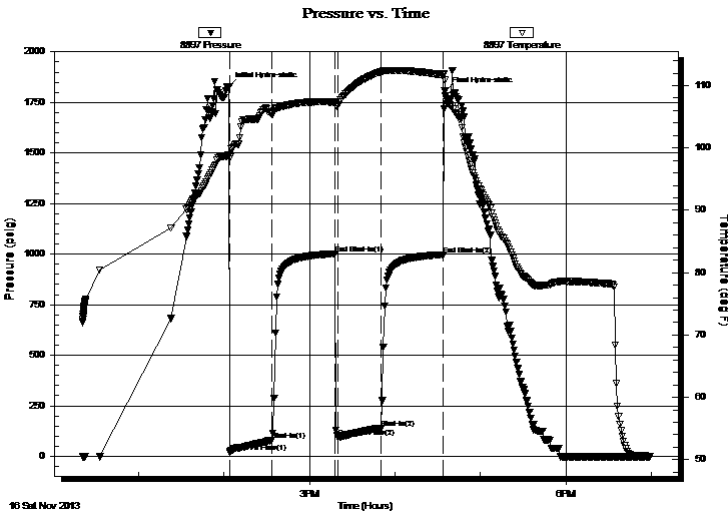
BOB in 10 mins

Fair surface blow back built to 5" died back to 4 1/2"

BOB 15 mins

Fair surface blow built to 5"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1829.20	98.90	Initial Hydro-static
1	19.59	98.31	Open To Flow (1)
31	80.33	105.38	Shut-In(1)
75	1001.97	107.35	End Shut-In(1)
77	95.54	106.78	Open To Flow (2)
107	140.51	112.23	Shut-In(2)
151	997.39	111.68	End Shut-In(2)
152	1805.60	110.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	5%G 5%O 80%W 10%M	0.58
60.00	10%G 15%O 55%W 20%M	0.84
120.00	15%G 30%O 25%W 30%M	1.68
35.00	30%G 50%O 10%W 10%M	0.49
5.00	10%G 90%O	0.07
0.00	500 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55834

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.11.16 @ 12:20:55

Tool Information

Drill Pipe:	Length: 3718.00 ft	Diameter: 3.80 inches	Volume: 52.15 bbl	Tool Weight: 2000.00 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 52.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3756.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	3786.00 ft			
Interval betw een Packers:	30.00 ft			
Tool Length:	166.00 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			3734.00	
Hydraulic tool	5.00			3739.00	
Jars	5.00			3744.00	
Safety Joint	2.00			3746.00	
Packer	5.00			3751.00	27.00 Bottom Of Top Packer
Packer	5.00			3756.00	
Stubb	1.00			3757.00	
Recorder	0.00	8897	Inside	3757.00	
Recorder	0.00	8898	Outside	3757.00	
Perforations	24.00			3781.00	
Blank Off Sub	1.00			3782.00	
Blank Spacing	4.00			3786.00	30.00 Tool Interval
Packer	5.00			3791.00	
Stubb	1.00			3792.00	
Perforations	2.00			3794.00	
Recorder	0.00	8354	Below	3794.00	
Change Over Sub	1.00			3795.00	
Blank Spacing	96.00			3891.00	
Change Over Sub	1.00			3892.00	
Bullnose	3.00			3895.00	109.00 Bottom Packers & Anchor

Total Tool Length: 166.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co Inc

13-12s-23w-Trego,KS

PO Box 1019
Hays KS 67601

Sharon Walker #2-13

Job Ticket: 55834 **DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.11.16 @ 12:20:55

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: 21000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in³

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
60.00	5%G 5%O 80%W 10%M	0.577
60.00	10%G 15%O 55%W 20%M	0.842
120.00	15%G 30%O 25%W 30%M	1.683
35.00	30%G 50%O 10%W 10%M	0.491
5.00	10%G 90%O	0.070
0.00	500 GIP	0.000

Total Length: 280.00 ft Total Volume: 3.663 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

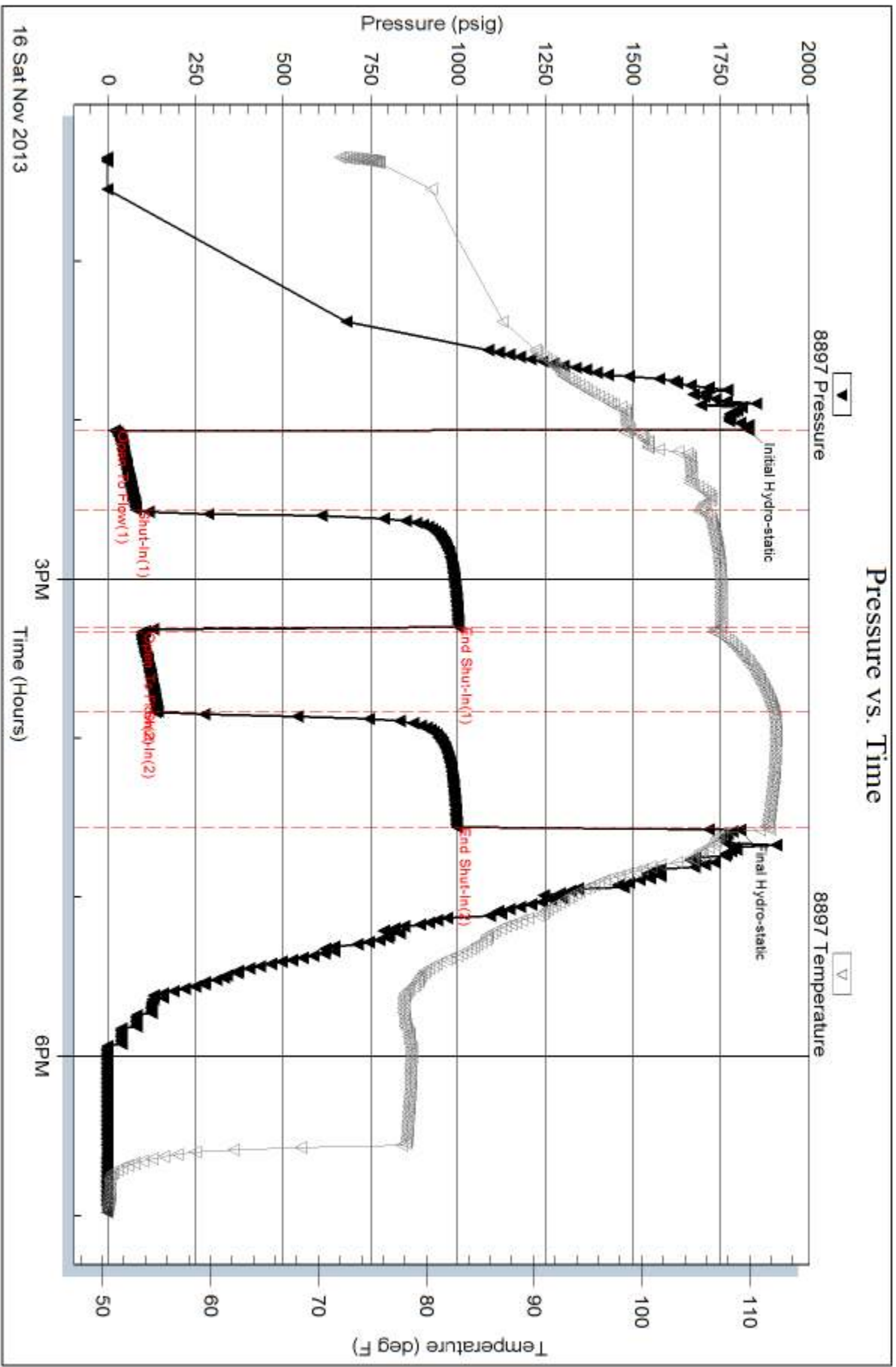
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Inside

Downing Nelson Oil Co Inc

Sharon Walker #2-13

DST Test Number: 3

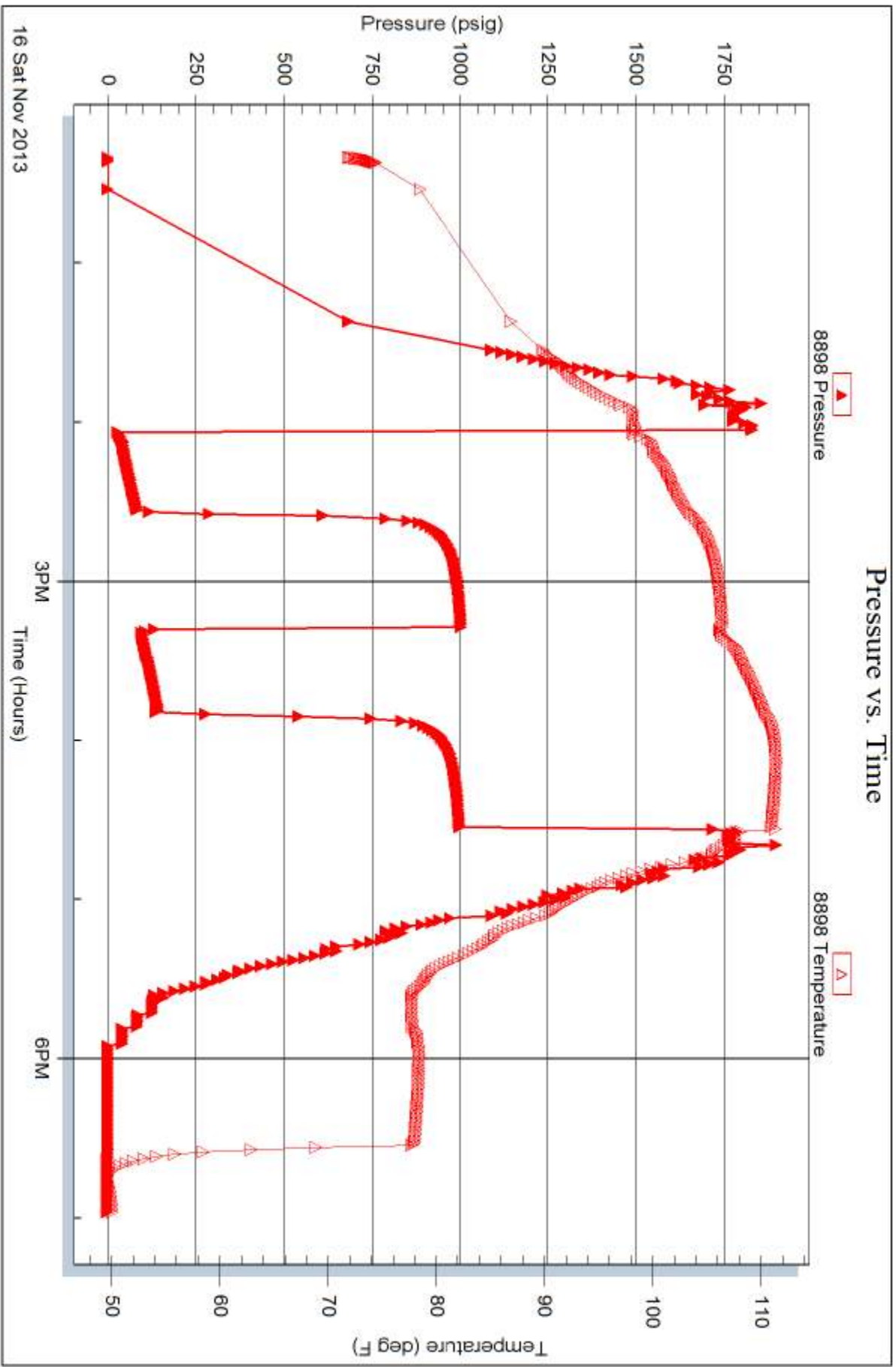


Serial #: 8898

Outside Dow n/ing Nelson Oil Co Inc

Sharon Walker #2-13

DST Test Number: 3



Tribble Testing, Inc

Ref. No: 55834

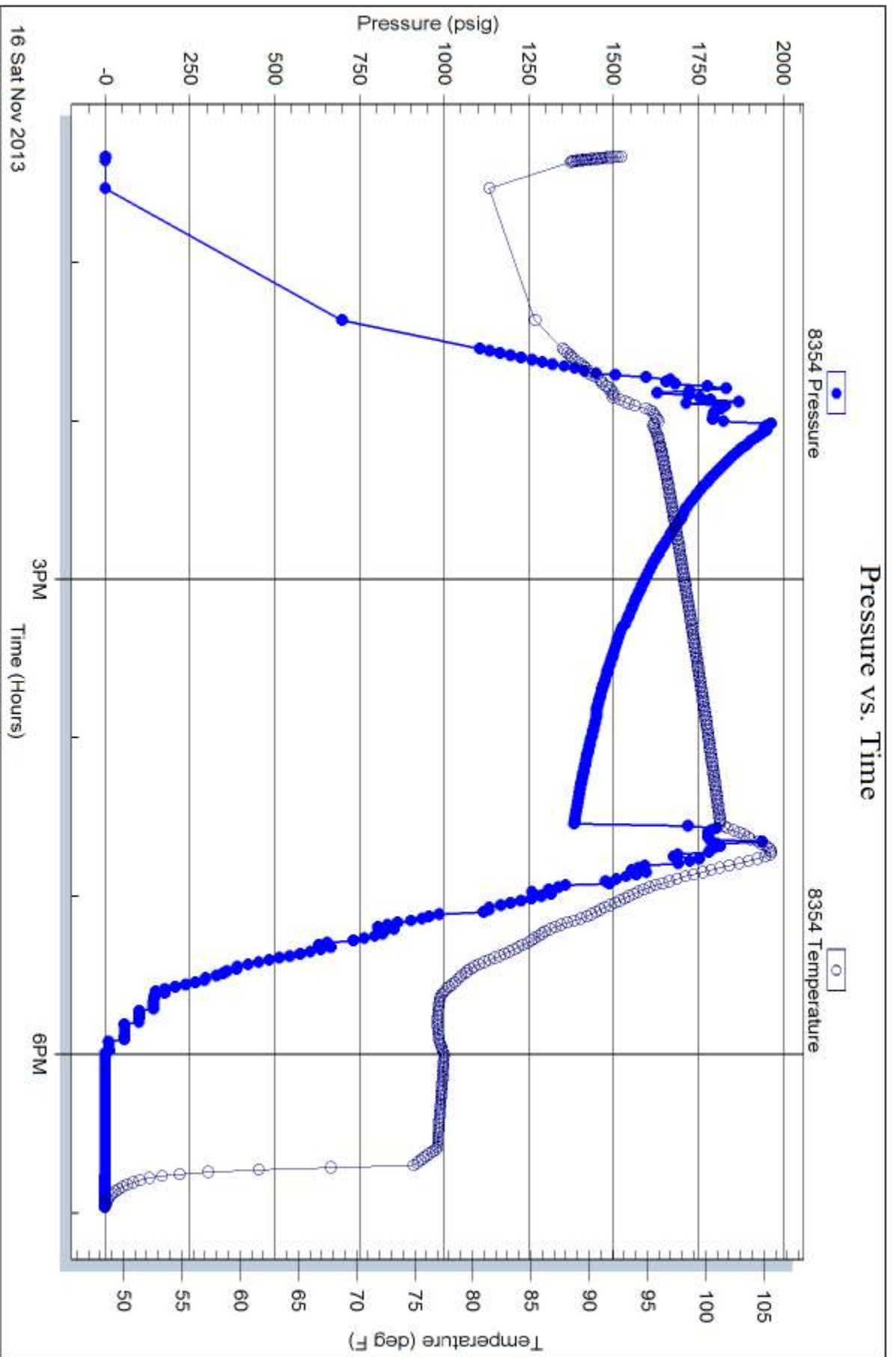
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Serial #: 8354

Below (Stratton)ing Nelson Oil Co Inc

Sharon Walker #2-13

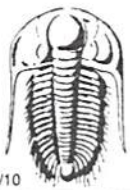
DST Test Number: 3



Triobite Testing, Inc

Ref. No: 55834

Printed: 2013.11.19 @ 11:59:35



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55832**

Well Name & No. Sharon Walker #2-12 Test No. 1 Date 11-15-13
 Company Downing-Nelson Oil Co TUC Elevation 2442 KB 2433 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Gator Rig Discovery #1
 Location: Sec. 13 Twp. 12S Rge. 23W Co. Trego State KS

Interval Tested 3717 3760 Zone Tested 2MC C+D
 Anchor Length 43 Drill Pipe Run 3094 Mud Wt. 8.6
 Top Packer Depth 3713 Drill Collars Run 29 Vis 58
 Bottom Packer Depth 3717 Wt. Pipe Run 0 WL 8.0
 Total Depth 3760 Chlorides 1250 ppm System LCM 3 1/2 #

Blow Description Fair surface blow built to 5 in
Dead no blow back
Fair surface blow built to 5 in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>0CM</u>		<u>10</u>		<u>90</u>
<u>0</u>	<u>40 GIP</u>	<u>100</u>			

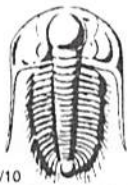
Rec Total 80 BHT 106 Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1794 Test 1150 T-On Location 04:53
 (B) First Initial Flow 14 Jars _____ T-Started 06:28
 (C) First Final Flow 37 Safety Joint _____ T-Open 08:16
 (D) Initial Shut-In 848 Circ Sub _____ T-Pulled 11:16
 (E) Second Initial Flow 40 Hourly Standby _____ T-Out 12:48
 (F) Second Final Flow 51 Mileage 60 R/T 93 Comments _____
 (G) Final Shut-In 844 Sampler _____
 (H) Final Hydrostatic 1803 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 45 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1243
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1243

Approved By _____ Our Representative [Signature]

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. 55833

Well Name & No. Sharon Walker #2-13 Test No. 2 Date 11-15-13
 Company Downing-Nelson Oil Co TXC Elevation 2442 KB 2433 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Cantor Rig Discovery #1
 Location: Sec. B Twp. 12S Rge. 23W Co. Trego State KS

Interval Tested 3756 ~~3775~~ Zone Tested LHC F Zone
 Anchor Length 19 Drill Pipe Run 3719 Mud Wt. 8.9
 Top Packer Depth 3752 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3756 Wt. Pipe Run 0 WL 8.0
 Total Depth 3775 Chlorides 2000 ppm System LCM 2 1/2*

Blow Description Fair surface blow built to 4 1/2 in
Dead No blow back
Fair surface blow built to 6 in
Dead No blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>40</u>	Feet of <u>156 MCO</u>	<u>2</u>	<u>50</u>	<u>48</u>	
Rec <u>0</u>	Feet of <u>80 GIP</u>	<u>100</u>			
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 40 BHT 105 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1857 Test 1150 T-On Location 18:45
 (B) First Initial Flow 11 Jars _____ T-Started 19:42
 (C) First Final Flow 20 Safety Joint _____ T-Open 20:40
 (D) Initial Shut-In 684 Circ Sub _____ T-Pulled 23:40
 (E) Second Initial Flow 14 Hourly Standby _____ T-Out 01:06
 (F) Second Final Flow 23 Mileage 60RH 93 Comments _____
 (G) Final Shut-In 462 Sampler _____
 (H) Final Hydrostatic 1790 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 45 Extra Packer _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 45 Day Standby _____
 Final Shut-In 45 Accessibility _____
 Sub Total 1243

Sub Total 1243 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 55834

Well Name & No. Sharon Walker #2-13 Test No. 3 Date 11-16-13
 Company Downing-Nelson Oil Co INC Elevation 2442 KB 2433 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Gutar Rig Discovery #1
 Location: Sec. 13 Twp. 12.5 Rge. 27W Co. Trego State KS

Interval Tested 3756 3786 Zone Tested Lansing E&F
 Anchor Length 30' 104 Tail Drill Pipe Run 3718 Mud Wt. 8.9
 Top Packer Depth 3752 Drill Collars Run 29 Vis 57
 Bottom Packer Depth 3756 Wt. Pipe Run 0 WL 81.0
 Total Depth 3890 Chlorides 2000 ppm System LCM 2 1/2

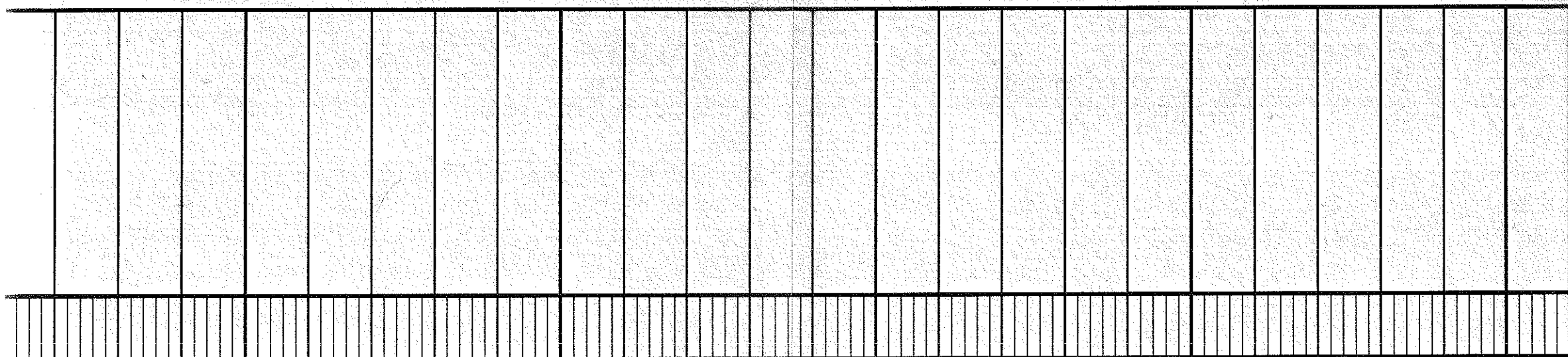
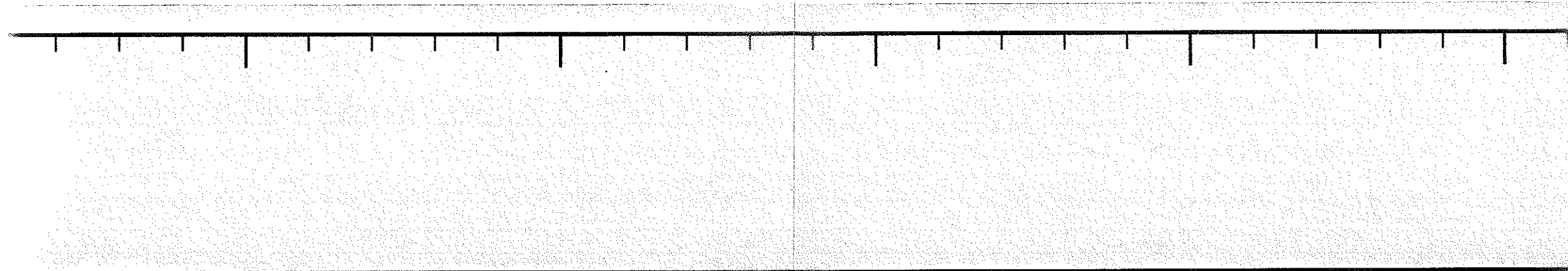
Blow Description B.O. in 10 mins
Fair surface blow back built to 5 1/2 in died back to 4 in
B.O. in 15 mins
Fair surface blow built to 5 in.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>GO</u>	<u>10</u>	<u>90</u>		
<u>35</u>	<u>GW MCO</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>10</u>
<u>120</u>	<u>VSMWLGO</u>	<u>15</u>	<u>30</u>	<u>25</u>	<u>30</u>
<u>60</u>	<u>MGOCW</u>	<u>10</u>	<u>15</u>	<u>55</u>	<u>20</u>
<u>60</u>	<u>VSMGOCW / 500 GP</u>	<u>5</u>	<u>5</u>	<u>80</u>	<u>50</u>
Rec Total	<u>280</u>	BHT <u>112</u>	Gravity <u>1.02</u>	API RW <u>501 @ 55° F</u>	Chlorides <u>2000</u> ppm

(A) Initial Hydrostatic 1829 Test 1150 T-On Location 11:30
 (B) First Initial Flow 20 Jars _____ T-Started 12:20
 (C) First Final Flow 80 Safety Joint _____ T-Open 14:04
 (D) Initial Shut-In 1002 Circ Sub _____ T-Pulled 16:34
 (E) Second Initial Flow 96 Hourly Standby _____ T-Out 18:58
 (F) Second Final Flow 141 Mileage 60 R/T X2 144.15 Comments Loaded @
 (G) Final Shut-In 2997 Sampler _____ 06:30 on 11-18-13
 (H) Final Hydrostatic 1806 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 800
 Final Flow 30 Day Standby +1 1/2 hrs Total 2694.15
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1894.15

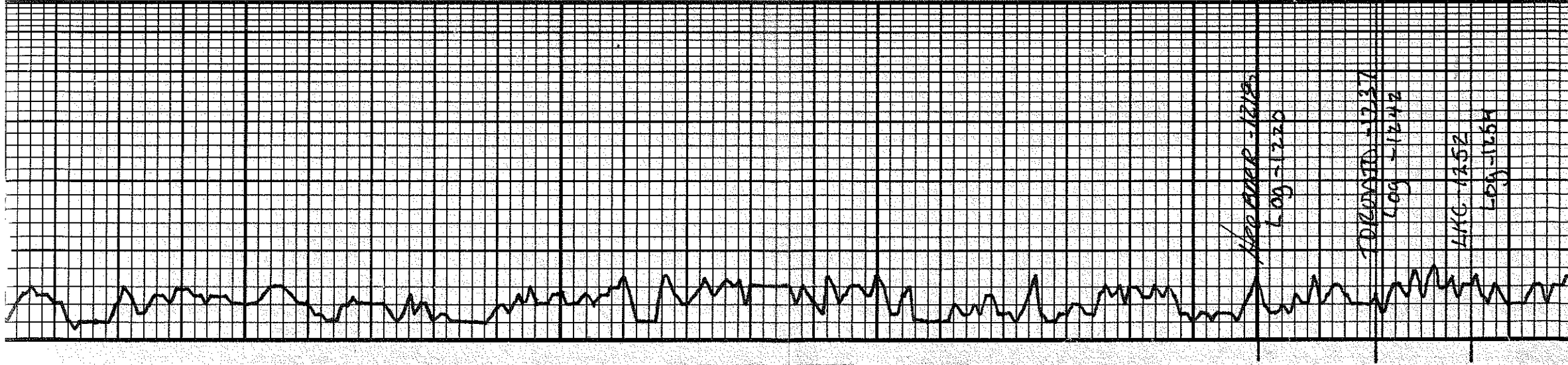
Approved By _____ Our Representative [Signature]
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3300 50 3400 50



DP 6 SA - 1003
Log - 1004



3500

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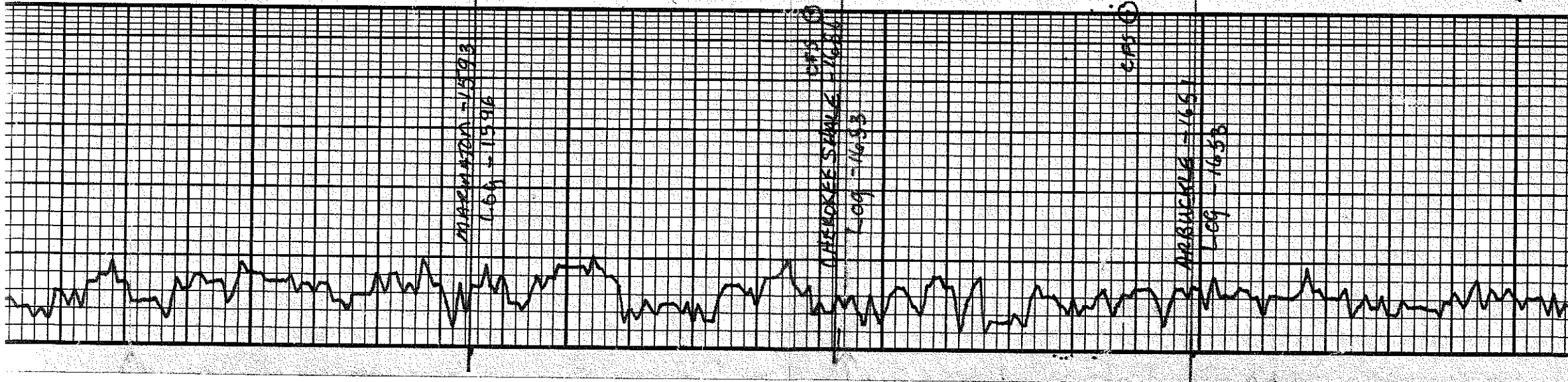
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LSWA-tan 1.00 - chytanc 1.20

1000000-1118
 LOG-1120

1000000-1121
 LOG-1120

AKC-1152
 LOG-1164



MARION - 1593
 Leg - 1596

CHARLES SANK - 1651
 Leg - 1653

ARBUCKLE - 1651
 Leg - 1653

shdrgy brn	micryla vchd's - am - wh 25 v for mglp no w/ sh pres hmo chd	RD & Ben v gummy stream sh of gey. pep. p. a hct h/ shs	DNS - am micryla RD & Ben sh	orange ct DNS - am v no app	ns w/ hawls	sh dgrm LS - am - wh sh xyls for vugp sm to pp. sm to 2000. sh 00, spid brn stn v v dns micryla hawls w/ haw. wh. op. wh no app p. a	hca - ad for sw. xyls chd sh, for ad. for pp & xyls. sh f. iable sm. hle. p. 55. h. ad. w/ sh haw. wh. op. wh no app p. a	DNES & haw. wh. all haw. brn DNS vpr b. ns. aa	sh & RD & vdegr sh gummy	DNS 94 am DNS w/ b - am	DRPMS w/ haw. wh. op. wh no app p. a	sh & RD & vdegr RD sh	vug. wh. ch. y. w. am. p. d. wh. sh h. ad.	var. color ch. x. aa US w/ haw. wh. op. wh no app p. a	sh y. w. Ben gm	DDO w/ haw. wh. op. wh no app p. a sh y. w. dns no app p. a	tot haw. wh. op. wh no app p. a v. h. ch. am. xyls. h. ad. no app p. a	DDO aa	DDO aa	DDO aa	DDO aa	DDO v DNS a.s. aboy
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400

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4100

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DID NOT TEST
 LOSING CIRCULATION
 IN MAR MATDM

