



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1171741
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: _____

1171741

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
--	---

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____
---	--

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> <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	Hockersmith-Robben 2-29
Doc ID	1171741

Tops

Name	Top	Datum
Anhydrite	2618	+428
Base	2653	+393
Topeka	3828	-782
Heebner	4042	-996
Lansing	4080	-1034
BKC	4352	-1306
Pawnee	4472	-1426
Ft. Scott	4543	-1497
Johnson	4604	-1560
Mississippi	4646	-1600



DRILL STEM TEST REPORT

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

PO Box 1017
Hays, KS 67601

ATTN: Mark Downing

29 9s 31w Thomas, KS

Hockersmith-Robben #2-29

Start Date: 2013.09.25 @ 03:40:00

End Date: 2013.09.25 @ 10:54:00

Job Ticket #: 55501 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.01 @ 16:09:03



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

ATTN: Mark Dow ning

Job Ticket: 55501

DST#: 1

Test Start: 2013.09.25 @ 03:40:00

GENERAL INFORMATION:

Formation: **LKC - H, I, & J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:04:00

Time Test Ended: 10:54:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 69

Interval: 4204.00 ft (KB) To 4295.00 ft (KB) (TVD)

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4295.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 67.76 psig @ 4205.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.25

End Date: 2013.09.25

Last Calib.: 2013.09.25

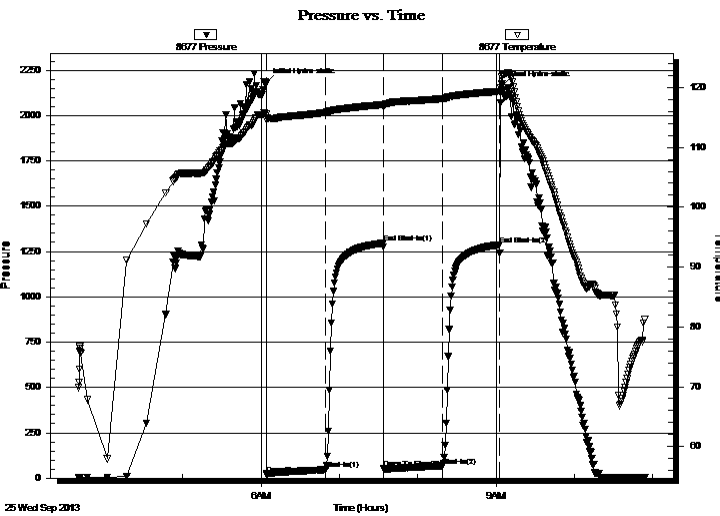
Start Time: 03:40:05

End Time: 10:53:59

Time On Btm: 2013.09.25 @ 06:03:45

Time Off Btm: 2013.09.25 @ 09:04:45

TEST COMMENT: IF: 3 1/2" blow .
IS: No return.
FF: 3" blow .
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2179.31	115.54	Initial Hydro-static
1	21.61	114.68	Open To Flow (1)
46	47.23	115.84	Shut-In(1)
90	1296.08	117.14	End Shut-In(1)
91	51.77	116.77	Open To Flow (2)
136	67.76	118.13	Shut-In(2)
179	1288.01	119.36	End Shut-In(2)
181	2164.92	121.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	mcw 30m 70w (oil spots)	0.99
0.00	6 inches oil on top	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

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

ATTN: Mark Dow ning

Job Ticket: 55501

DST#: 1

Test Start: 2013.09.25 @ 03:40:00

Tool Information

Drill Pipe:	Length: 4172.00 ft	Diameter: 3.80 inches	Volume: 58.52 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 58.67 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	4204.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	91.00 ft			
Tool Length:	111.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4185.00	
Shut In Tool	5.00			4190.00	
Hydraulic tool	5.00			4195.00	
Packer	5.00			4200.00	20.00 Bottom Of Top Packer
Packer	4.00			4204.00	
Stubb	1.00			4205.00	
Recorder	0.00	8677	Inside	4205.00	
Recorder	0.00	8522	Outside	4205.00	
Perforations	22.00			4227.00	
Change Over Sub	1.00			4228.00	
Drill Pipe	63.00			4291.00	
Change Over Sub	1.00			4292.00	
Bullnose	3.00			4295.00	91.00 Bottom Packers & Anchor

Total Tool Length: 111.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

Job Ticket: 55501

DST#: 1

ATTN: Mark Dow ning

Test Start: 2013.09.25 @ 03:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

70000 ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	mcw 30m 70w (oil spots)	0.989
0.00	6 inches oil on top	0.000

Total Length: 90.00 ft Total Volume: 0.989 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .116 @ 64F = 70,000ppm

Serial #: 8677

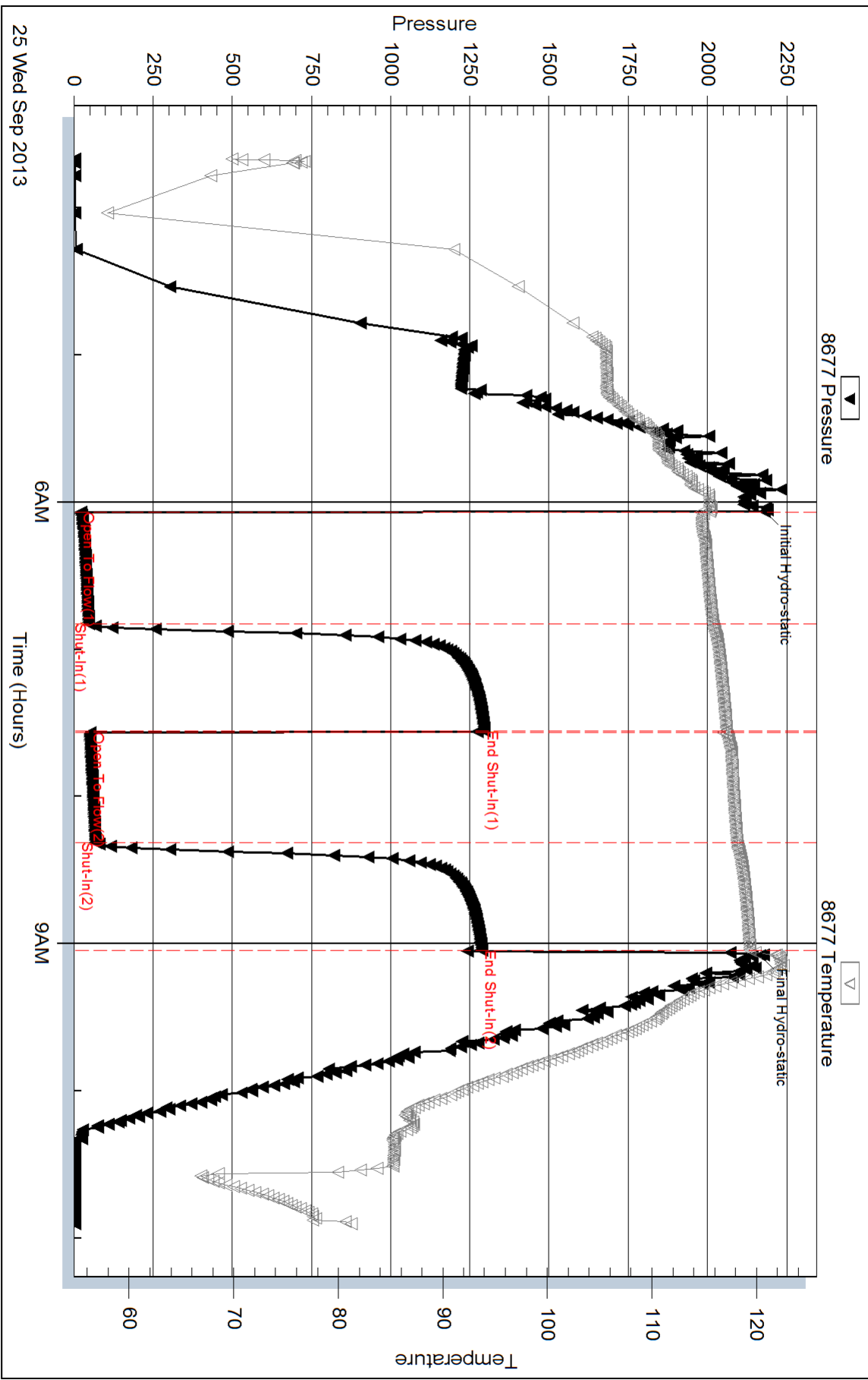
Inside

Dow nting-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55501

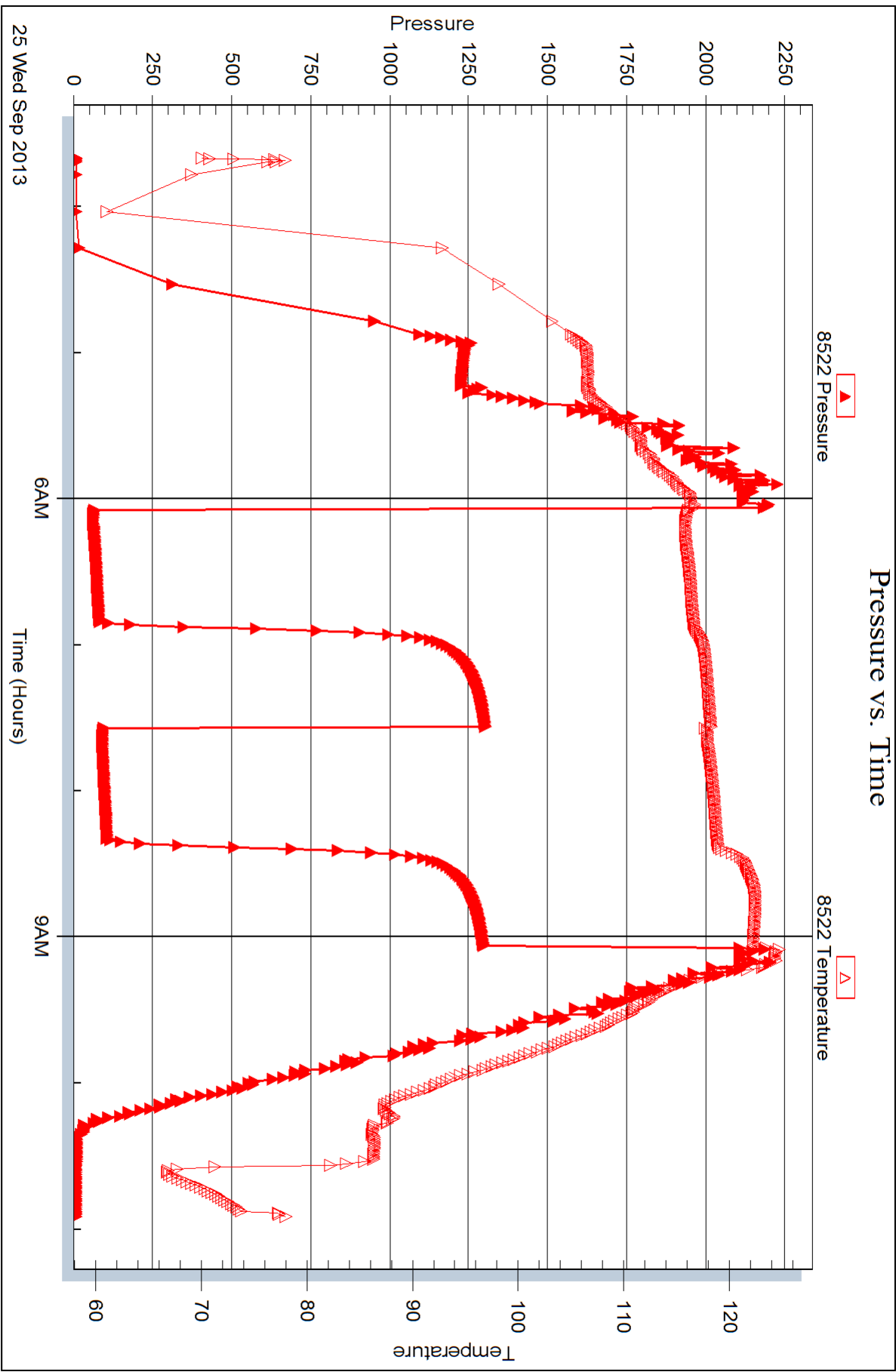
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Serial #: 8522

Outside Dow nting-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1017
Hays, KS 67601

ATTN: Mark Downing

29 9s 31w Thomas, KS

Hockersmith-Robben #2-29

Start Date: 2013.09.25 @ 21:17:00

End Date: 2013.09.26 @ 03:00:45

Job Ticket #: 55502 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.01 @ 16:05:16

Downing-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

29 9s 31w Thomas, KS

DST # 2

LKC - L

2013.09.25



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

ATTN: Mark Dow ning

Job Ticket: 55502

DST#: 2

Test Start: 2013.09.25 @ 21:17:00

GENERAL INFORMATION:

Formation: **LKC - L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:17:15

Time Test Ended: 03:00:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4324.00 ft (KB) To 4354.00 ft (KB) (TVD)

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4354.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8677

Inside

Press @ Run Depth: 23.50 psig @ 4325.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.25

End Date:

2013.09.26

Last Calib.:

2013.09.26

Start Time: 21:17:05

End Time:

03:00:44

Time On Btm:

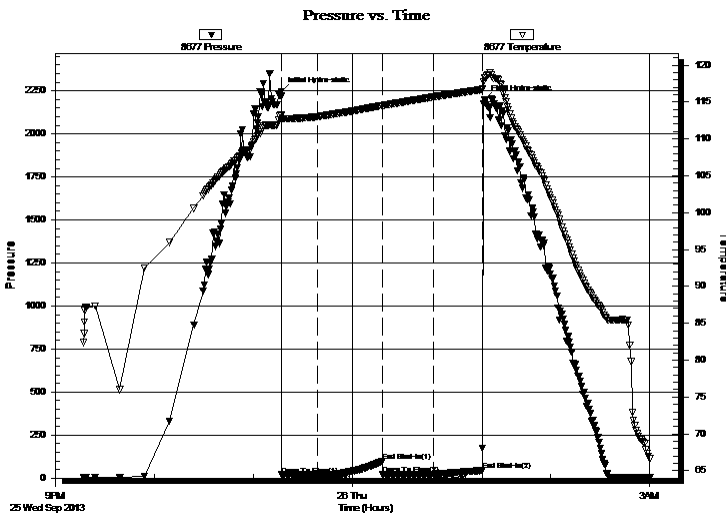
2013.09.25 @ 23:17:00

Time Off Btm:

2013.09.26 @ 01:20:15

TEST COMMENT: IF: Surface blow .
IS: No return.
FF: Surface blow .
FS: No return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2243.76	113.27	Initial Hydro-static
1	19.16	112.61	Open To Flow (1)
22	19.44	113.01	Shut-In(1)
61	97.52	114.50	End Shut-In(1)
62	20.89	114.48	Open To Flow (2)
93	23.50	115.67	Shut-In(2)
122	43.43	116.69	End Shut-In(2)
124	2198.77	118.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	socm 2o 98m	0.07

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

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

Job Ticket: 55502

DST#: 2

ATTN: Mark Dow ning

Test Start: 2013.09.25 @ 21:17:00

Tool Information

Drill Pipe:	Length: 4299.00 ft	Diameter: 3.80 inches	Volume: 60.30 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 60.45 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	4324.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	30.00 ft			
Tool Length:	50.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4305.00	
Shut In Tool	5.00			4310.00	
Hydraulic tool	5.00			4315.00	
Packer	5.00			4320.00	20.00 Bottom Of Top Packer
Packer	4.00			4324.00	
Stubb	1.00			4325.00	
Recorder	0.00	8677	Inside	4325.00	
Recorder	0.00	8522	Outside	4325.00	
Perforations	26.00			4351.00	
Bullnose	3.00			4354.00	30.00 Bottom Packers & Anchor
Total Tool Length:	50.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

Job Ticket: 55502

DST#: 2

ATTN: Mark Dow ning

Test Start: 2013.09.25 @ 21:17:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 72.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
15.00	socm 2o 98m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

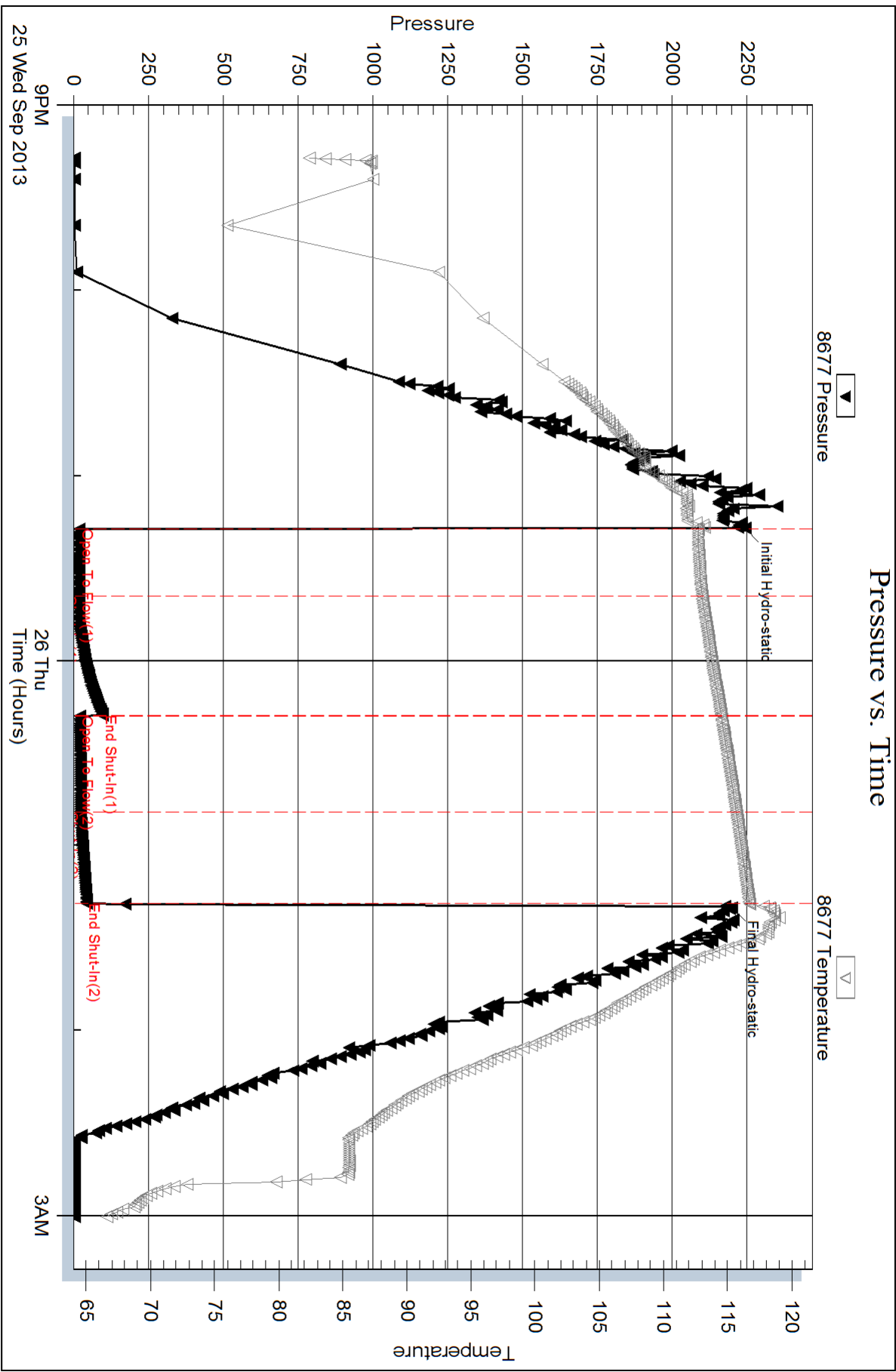
Serial #: 8677

Inside

Dow nting-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 2

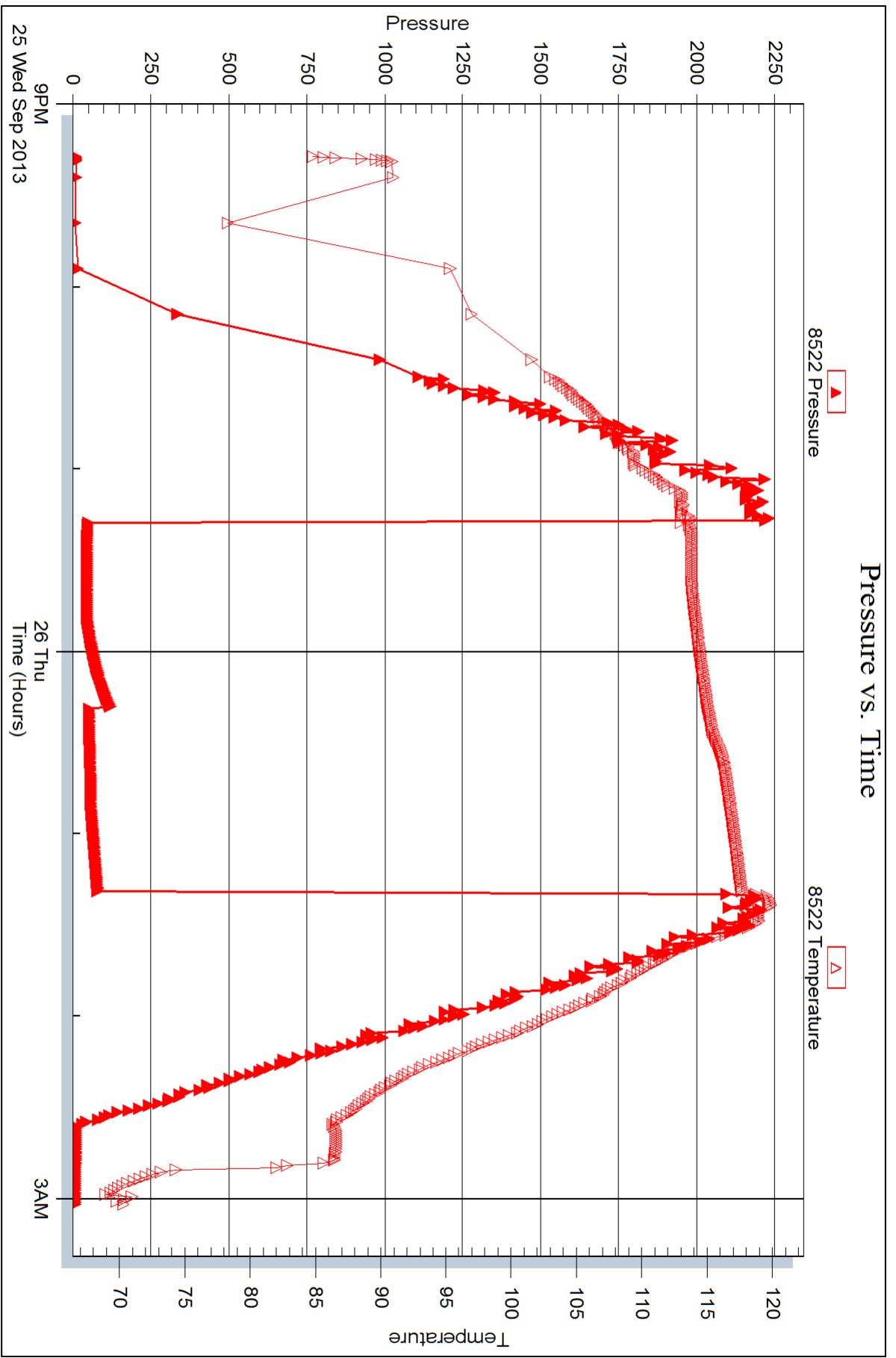


Serial #: 8522

Outside Dow nting-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55502

Printed: 2013.10.01 @ 16:05:17



DRILL STEM TEST REPORT

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

PO Box 1017
Hays, KS 67601

ATTN: Mark Downing

29 9s 31w Thomas, KS

Hockersmith-Robben #2-29

Start Date: 2013.09.27 @ 18:16:00

End Date: 2013.09.28 @ 02:45:00

Job Ticket #: 55503 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.10.01 @ 16:04:34

Downing-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

29 9s 31w Thomas, KS

DST # 3

Pawnee Marmaton

2013.09.27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

ATTN: Mark Dow ning

Job Ticket: 55503

DST#: 3

Test Start: 2013.09.27 @ 18:16:00

GENERAL INFORMATION:

Formation: **Pawnee Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:28:00

Time Test Ended: 02:45:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 69

Interval: 4320.00 ft (KB) To 4528.00 ft (KB) (TVD)

Reference Elevations: 3048.00 ft (KB)

Total Depth: 4710.00 ft (KB) (TVD)

3040.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8677

Inside

Press @RunDepth: 431.43 psig @ 4321.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.27

End Date:

2013.09.28

Last Calib.:

2013.09.28

Start Time: 18:16:05

End Time:

02:44:59

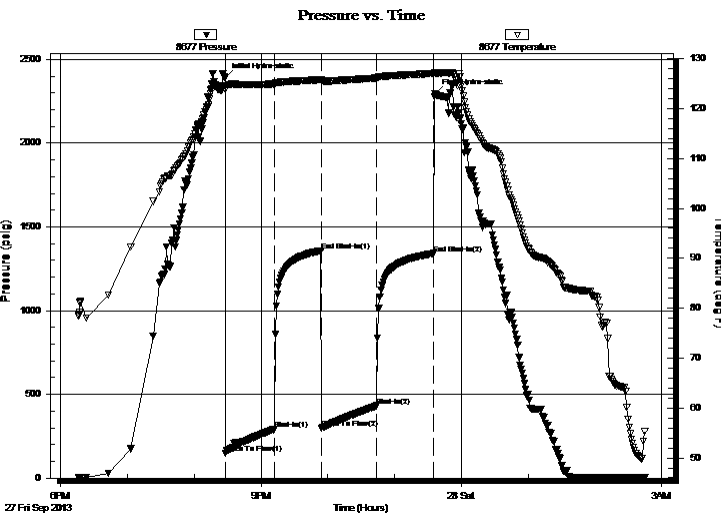
Time On Btm:

2013.09.27 @ 20:27:45

Time Off Btm:

2013.09.27 @ 23:36:30

TEST COMMENT: IF: BOB @ 12 min.
IS: No return.
FF: BOB @ 16 min.
FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2389.58	124.56	Initial Hydro-static
1	148.59	123.76	Open To Flow (1)
44	292.87	124.94	Shut-In(1)
87	1358.64	125.80	End Shut-In(1)
87	299.58	125.48	Open To Flow (2)
136	431.43	126.12	Shut-In(2)
188	1340.99	127.03	End Shut-In(2)
189	2293.80	127.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
510.00	mcw 15m 85w (oil spots in tool)	6.88
140.00	w cm 30w 70m	1.96

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

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

ATTN: Mark Dow ning

Job Ticket: 55503

DST#: 3

Test Start: 2013.09.27 @ 18:16:00

Tool Information

Drill Pipe:	Length: 4270.00 ft	Diameter: 3.80 inches	Volume: 59.90 bbl	Tool Weight: 2500.00 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: 72000.00 lb
			Total Volume: 60.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4320.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	390.00 ft			
Tool Length:	417.00 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			4294.00	
Shut In Tool	5.00			4299.00	
Hydraulic tool	5.00			4304.00	
Jars	5.00			4309.00	
Safety Joint	2.00			4311.00	
Packer	5.00			4316.00	27.00 Bottom Of Top Packer
Packer	4.00			4320.00	
Stubb	1.00			4321.00	
Recorder	0.00	8677	Inside	4321.00	
Recorder	0.00	8522	Outside	4321.00	
Perforations	6.00			4327.00	
Change Over Sub	1.00			4328.00	
Drill Pipe	190.00			4518.00	
Change Over Sub	1.00			4519.00	
Perforations	5.00			4524.00	
Blank Off Sub	1.00			4525.00	390.00 Tool Interval
Packer	3.00			4528.00	
Blank Spacing	1.00			4529.00	
Perforations	18.00			4547.00	
Change Over Sub	1.00			4548.00	
Recorder	0.00	8678	Below	4548.00	
Drill Pipe	158.00			4706.00	
Change Over Sub	1.00			4707.00	
Bullnose	3.00			4710.00	1000416.00 Bottom Packers & Anchor
Total Tool Length:	417.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co, Inc

Hockersmith-Robben #2-29

PO Box 1017
Hays, KS 67601

29 9s 31w Thomas, KS

Job Ticket: 55503

DST#: 3

ATTN: Mark Dow ning

Test Start: 2013.09.27 @ 18:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

60000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
510.00	mcw 15m 85w (oil spots in tool)	6.881
140.00	w cm 30w 70m	1.964

Total Length: 650.00 ft Total Volume: 8.845 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .180 @ 49F = 60,000ppm

Serial #: 8677

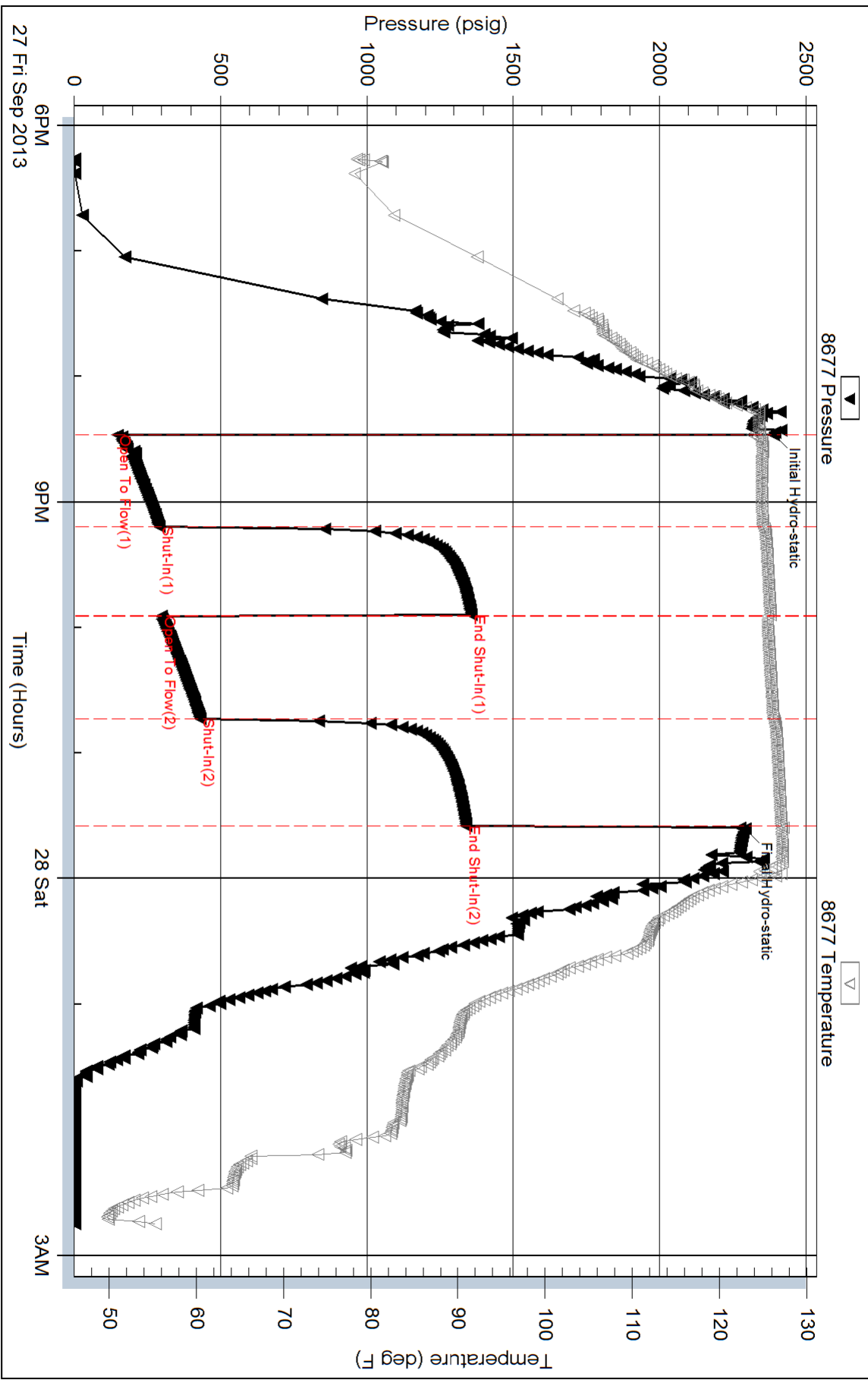
Inside

Dow n/g-nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 3

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 55503

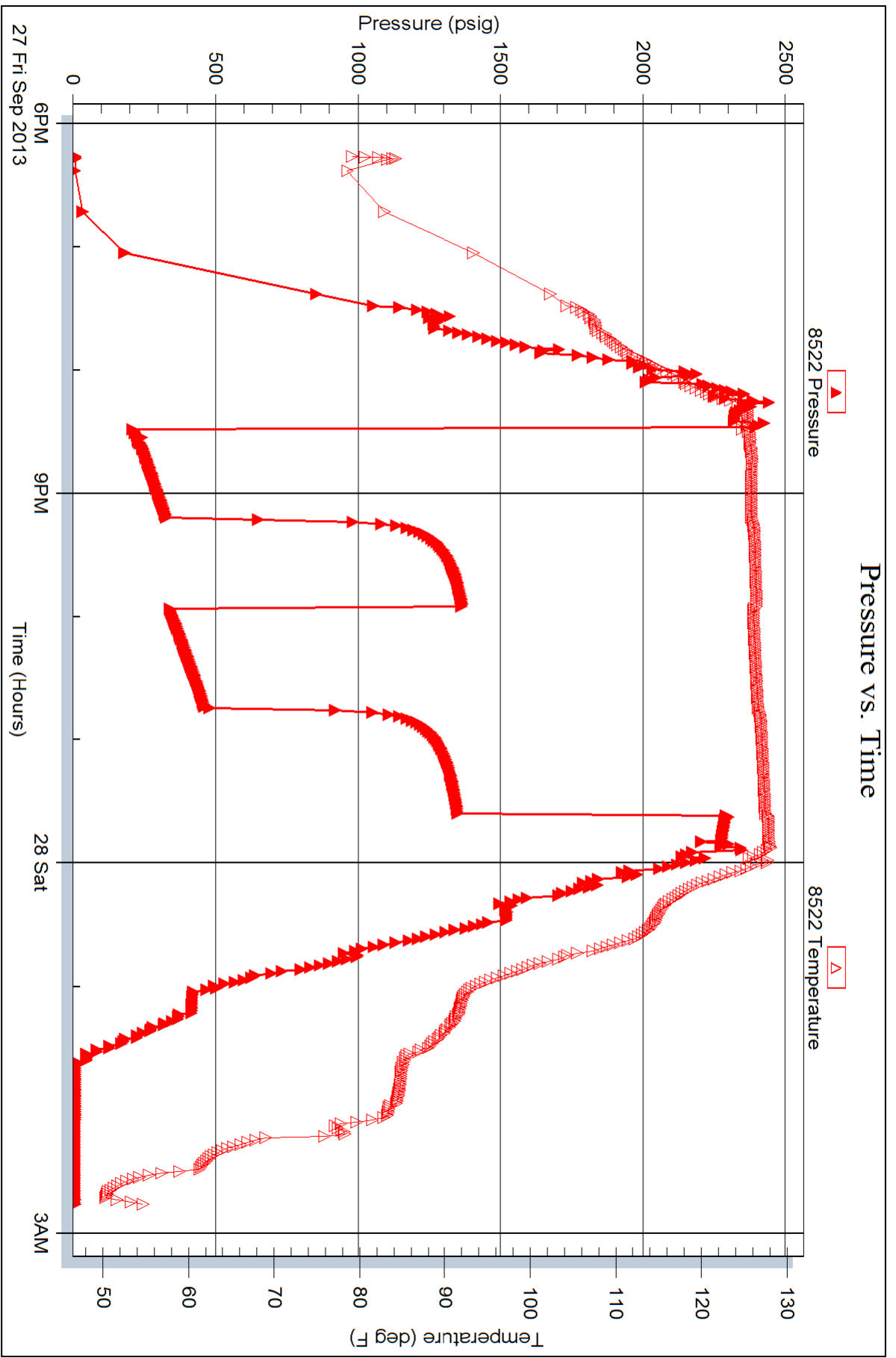
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Serial #: 8522

Outside Dow nting-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 3

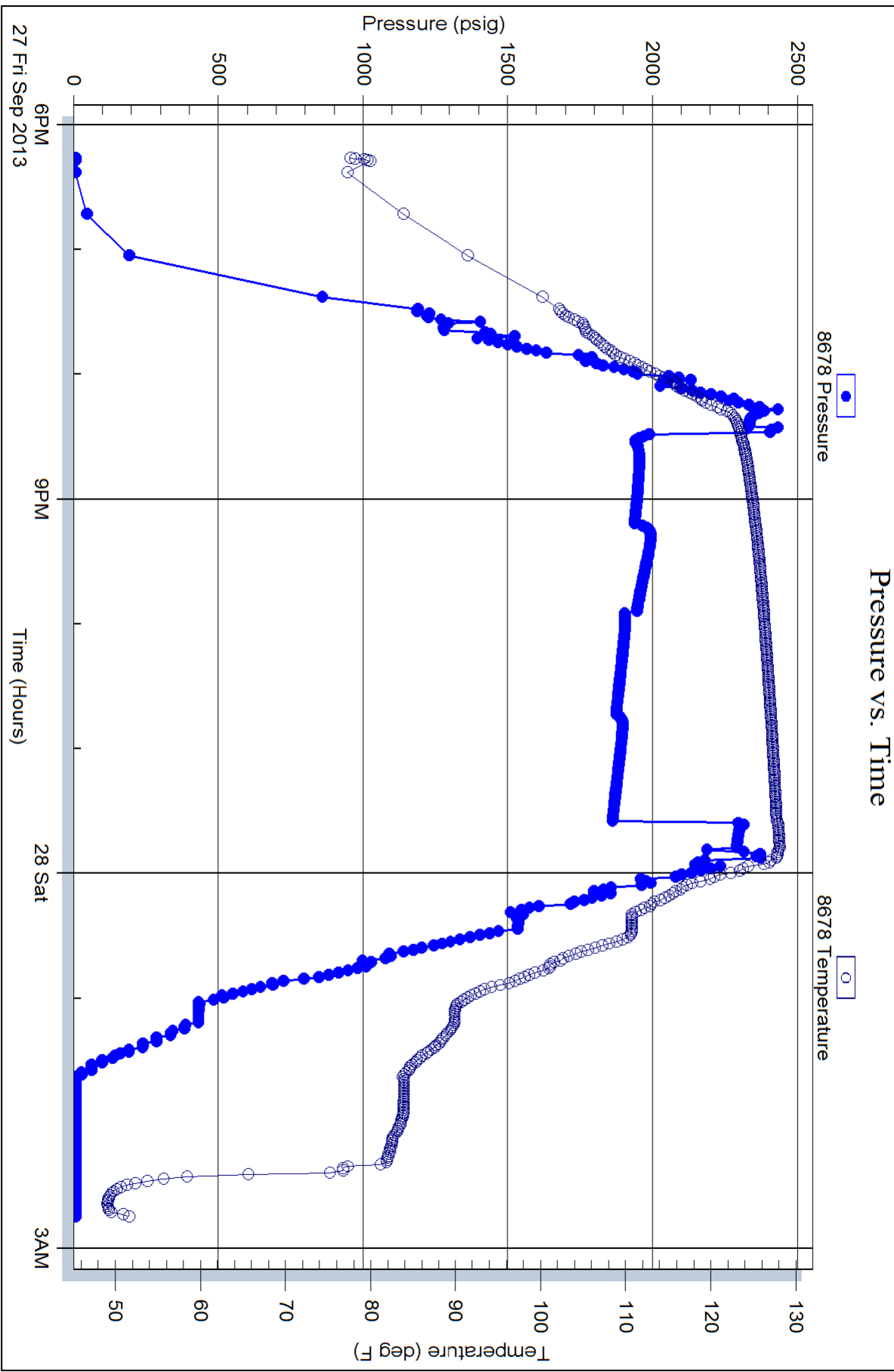


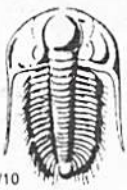
Serial #: 8678

Below (Stratton)ng-Nelson Oil Co, Inc

29 9s 31w Thomas, KS

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55501**

Well Name & No. Hockersmith - Robben 2-29 Test No. 1 Date 9/25/13
 Company Downing - Nelson Oil Co, Inc Elevation 3048 KB 3048 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 29 Twp. 9S Rge. 31W Co. Thomas State Ks

Interval Tested 4204 - 4295 Zone Tested LKC H-5
 Anchor Length 91 Drill Pipe Run 4172 Mud Wt. 9.8
 Top Packer Depth 4199 Drill Collars Run 30 Vis 5:5
 Bottom Packer Depth 4204 Wt. Pipe Run _____ WL 8.8
 Total Depth 4295 Chlorides 500 ppm System LCM 1.5

Blow Description IF: 3 1/2" blow
TSI: No return
FF: 3" blow
FI: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>90</u>	<u>MCW (oil spots)</u>		<u>70</u>	<u>30</u>	
	<u>6 inches oil on top</u>				

Rec Total 90 BHT 119 Gravity _____ API RW 116 @ 64 °F Chlorides 70,000 ppm
 (A) Initial Hydrostatic 2179 Test 1250 T-On Location 0230
 (B) First Initial Flow 22 Jars _____ T-Started 0340
 (C) First Final Flow 47 Safety Joint _____ T-Open 0604
 (D) Initial Shut-In 1296 Circ Sub AVC T-Pulled 0904
 (E) Second Initial Flow 52 Hourly Standby _____ T-Out 1055
 (F) Second Final Flow 68 Mileage 119 RT 184.45
 (G) Final Shut-In 1288 Sampler _____
 (H) Final Hydrostatic 2165 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Sub Total 0
 Total 1434.45
 MP/DST Disc't _____
 Sub Total 1434.45

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.

785 623 1407



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55502**

Well Name & No. Hockersmith - Robben 2-29 Test No. 2 Date 9-26-13
 Company Downing - Nelson Oil Co Elevation 3048 KB 3040 GL
 Address P.O. Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 29 Twp. 9s Rge. 31w Co. Thomas State Ks

Interval Tested 4324 - 4354 Zone Tested LKC - L
 Anchor Length 30 Drill Pipe Run 4299 Mud Wt. 9.2
 Top Packer Depth 4319 Drill Collars Run 30 Vis ??
 Bottom Packer Depth 4324 Wt. Pipe Run 8 WL 8.8
 Total Depth 4354 Chlorides 800 ppm System LCM 1.5

Blow Description TF: Surface blow
TSJ: No return.
FF: Surface blow
FST: No return.

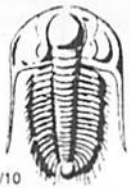
Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>50 cm</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2244</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>2020</u>
(B) First Initial Flow <u>19</u>	<input type="checkbox"/> Jars	T-Started <u>2117</u>
(C) First Final Flow <u>19</u>	<input type="checkbox"/> Safety Joint	T-Open <u>2319</u>
(D) Initial Shut-In <u>98</u>	<input checked="" type="checkbox"/> Circ Sub <u>14c</u>	T-Pulled <u>0119</u>
(E) Second Initial Flow <u>21</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0301</u>
(F) Second Final Flow <u>24</u>	<input checked="" type="checkbox"/> Mileage <u>119 RT</u> 184.45	Comments
(G) Final Shut-In <u>43</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2199</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1434.45</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1434.45</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **55503**

Well Name & No. Hockersmith - Robben 2-29 Test No. 3 Date 9/28/13
 Company Downing - Nelson Oil Co, Inc Elevation 3048 KB 3040 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 29 Twp. 9S Rge. SW Co. Thomas State Ks

Interval Tested 4320 4528 Zone Tested Pawnee Marmaton
 Anchor Length 208 Tail - 182 Drill Pipe Run 4270 Mud Wt. 9.4
 Top Packer Depth 4315 Drill Collars Run 30 Vis 69
 Bottom Packer Depth 4320 str-4528 Wt. Pipe Run 8 WL 8.0
 Total Depth 4710 Chlorides 800 ppm System LCM 1.5
 Blow Description IFI: BOB @ 12 min
ISI: No return
FF: BOB @ 16 min.
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>140</u>	<u>WCM</u>		<u>30</u>	<u>70</u>	
<u>510</u>	<u>MCW</u>		<u>85</u>	<u>15</u>	

Rec Total 650 BHT 127 Gravity — API RW 180 @ 49 °F Chlorides 60,000 ppm

(A) Initial Hydrostatic <u>2390</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>1730</u>
(B) First Initial Flow <u>149</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1816</u>
(C) First Final Flow <u>293</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2028</u>
(D) Initial Shut-In <u>1359</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2328</u>
(E) Second Initial Flow <u>300</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0245 9/28</u>
(F) Second Final Flow <u>1341 431</u>	<input checked="" type="checkbox"/> Mileage <u>119 RT 184.45</u>	Comments <u>Inc & S-Joint were requested on this test.</u>
(G) Final Shut-In <u>1341</u>	<input type="checkbox"/> Sampler	<input type="checkbox"/> Ruined Shale Packer
(H) Final Hydrostatic <u>2294</u>	<input checked="" type="checkbox"/> Straddle <u>600</u>	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Extra Copies
Initial Open <u>45</u>	<input type="checkbox"/> Extra Packer	Sub Total <u>483.33</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	Total <u>2842.78</u>
Final Flow <u>45</u>	<input checked="" type="checkbox"/> Day Standby <u>1d 14.5h</u>	MP/DST Disc't
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility	
	Sub Total <u>2359.45</u>	

Approved By _____ Our Representative [Signature]
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ALLIED OIL & GAS SERVICES, LLC 061903

Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE <u>9-20-13</u>	SEC. <u>29</u>	TWP. <u>9</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>6pm</u>	JOB FINISH <u>6:30pm</u>
Flocke Smith LEASE Robben		WELL# <u>2-29</u>		LOCATION <u>Oakley N to Rd H 3E</u>		COUNTY <u>Woods</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR <u>Discovery #1</u>	
TYPE OF JOB <u>Surface</u>	
HOLE SIZE <u>12 1/2</u>	T.D.
CASING SIZE <u>8 5/8</u>	DEPTH <u>307.24</u>
TUBING SIZE	DEPTH
DRILL PIPE <u>4 1/2</u>	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15 FT</u>	
PERFS.	
DISPLACEMENT <u>18.61 bbls freshwater</u>	
EQUIPMENT	
PUMP TRUCK # <u>398</u>	CEMENTER <u>Justin Isaac</u>
	HELPER <u>Ben Maxwell</u>
BULK TRUCK # <u>3417</u>	DRIVER <u>David Scariano</u>
BULK TRUCK #	DRIVER

OWNER	
CEMENT AMOUNT ORDERED <u>225 SKS class A</u>	
<u>3.46 cc 2% gel</u>	
COMMON	<u>225 @ 17.90 = 4,027.50</u>
POZMIX	@
GEL	<u>84 @ 23.40 = 93.60</u>
CHLORIDE	<u>8 @ 69.00 = 512.00</u>
ASC	@
	@
	@
	@
	@
	@
	@
	@
HANDLING	<u>242.91 @ 2.48 = 602.41</u>
MILEAGE	<u>11.09 x 5 x 2.60 = 144.19</u>
TOTAL <u>5,379.74</u>	

REMARKS:

Run 8 5/8 casing
Break circulation with big mud
Dump 5 bbls freshwater ahead
mix 225 SKS class A 3.46 cc 2% gel
Displace 18.61 bbls freshwater
Shot in
Cement did circulate 6:30pm
Rig down

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	<u>1512.25</u>
EXTRA FOOTAGE	@
MILEAGE <u>Hum 5</u>	<u>@ 7.70 = 38.50</u>
MANIFOLD	@
<u>Hum 5</u>	<u>@ 4.40 = 22.00</u>
	@
TOTAL <u>1,572.75</u>	

CHARGE TO: Dawning Nelson Oil Co
STREET _____
CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
_____	@	_____
TOTAL _____		

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)	_____
TOTAL CHARGES	<u>6,952.75</u>
DISCOUNT	<u>1,390.79</u>
	IF PAID IN 30 DAYS
	<u>5,561.96</u>

PRINTED NAME STIFF MAYFIELD
SIGNATURE [Signature]
Thank you!

