



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
- Conv. to GSW
- Plug Back: _____ Plug Back Total Depth _____
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

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

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total 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

- Letter of Confidentiality Received
Date: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1100028

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ Plug Off Zone				

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
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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> _____ <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	Holland 1-24
Doc ID	1100028

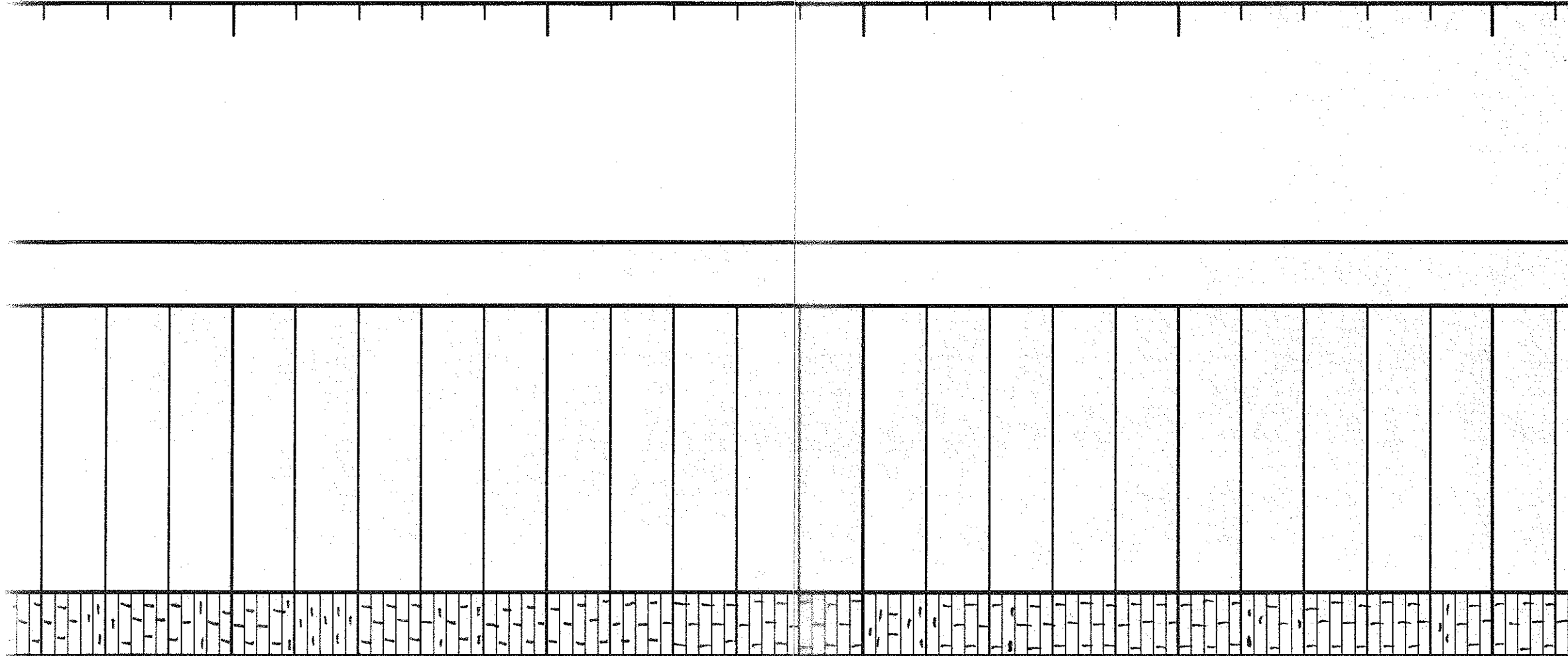
All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density / Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Holland 1-24
Doc ID	1100028

Tops

Name	Top	Datum
Top Anhydrite	1126'	+886
Base Anhydrite	1164'	+848
Topeka	3020'	-1008
Heebner	3246'	-1234
Toronto	3265'	-1253
LKC	3301'	-1289
BKC	3522'	-1510
Arbuckle	3548'	-1536



3000

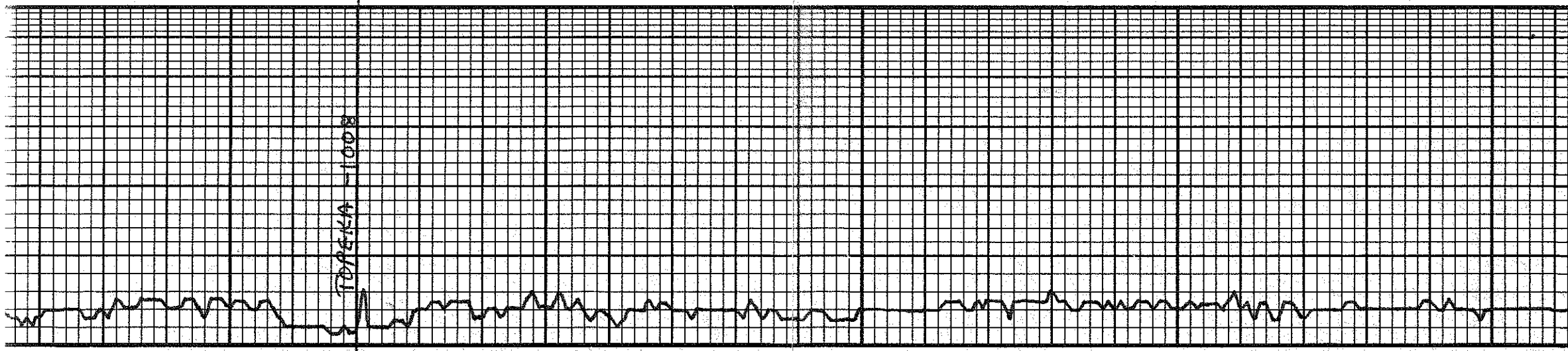
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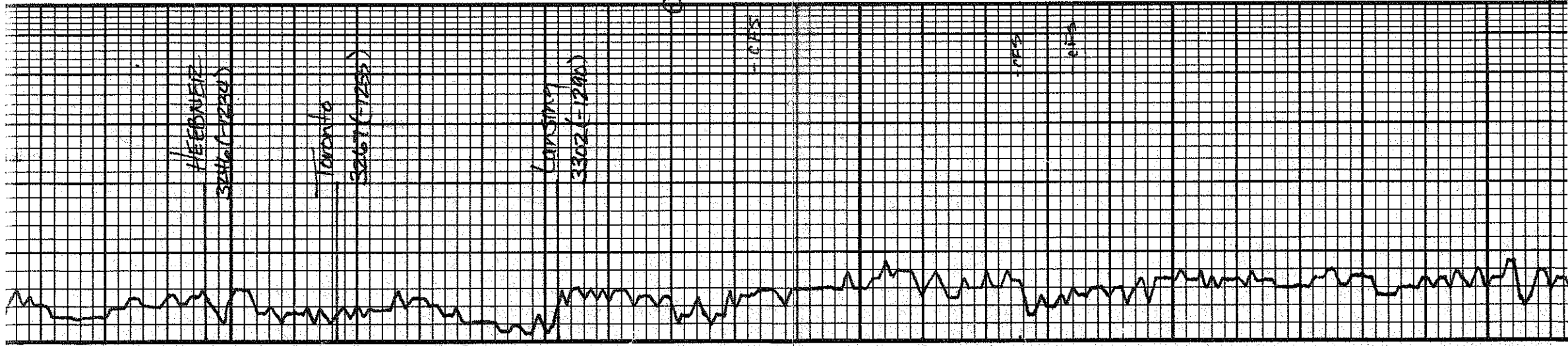
3100

50

3200

POZIKA - 1008





HEBNER
3267 (1225)

TORONTO
3267 (1225)

CONSUMEY
3302 (1200)

1000

1000

1000

50

3300

50

3400

50

Sh: Black - carb
LS: Whit - 1/2 in V. DSE

Sh: gm

LS: Whit fin to subm
cyan in 1/2 in scatt
interw. of Nr -

Sh: gm - Brown

LS: Whit Bone Whit fin w
scatt interw. of sh. chky Ns
No od.

Sh: gm

LS: Whit Lt Tan fin w
ool - ood V. SPT str 1-2 R's
Ran sfo - No odor

Sh: gm

LS: Whit 1/2 in w
No app of Ns - fco

scatt oolitic R's au
titr.

Sh: Black - carb

LS: Whit fin - ool w
V. SPT str Ns fo - No od

Sh: gm

LS: Whit Tan fin w
ool of. Lt. sfo w faint odor

Sh: V. dark gm

LS: Whit fin 100 w scatt
ood - Ns - fo - No

LS: Whit - Brown w
V. fin w No vis of Ns fo

No odor - scatt whit Lt.

Tan scatt -

Sh: Whit - Brown, spt
phtic

LS: Whit - 1/2 in w
interw. of Ns fo - No odor
au dse

Sh: gm - Brown

Vis 55
wt 8.8
wl 8.8
Ln 2 #

DST #1
3312 - 3335
30-30-30-30

Rec: 76' mud
IHP: 1611 #
IIP: 54-51 #
FIP: 52-51 #
SIP: 864-854 #
FHP: 1600 #
Temp: 99.0 F

DST #2
3354 - 3386
30-45-30-45

Rec: 270' MW
IHP: 1653 #
IIP: 27-88 #
FIP: 98-140 #
SIP: 870-814 #
FHP: 1606 #
Temp: 108.0

Vis 51
wt 8.8
wl 8.8
Ln 2 #



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

Holland #1-24

24-16s-17w Rush,KS

Start Date: 2012.10.26 @ 22:03:30

End Date: 2012.10.27 @ 03:45:30

Job Ticket #: 48601 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.01 @ 14:25:09



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48601

DST#: 1

ATTN: Al Dow ning

Test Start: 2012.10.26 @ 22:03:30

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:06:30

Time Test Ended: 03:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3312.00 ft (KB) To 3335.00 ft (KB) (TVD)

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3335.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 51.47 psig @ 3315.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.26

End Date: 2012.10.27

Last Calib.: 2012.10.27

Start Time: 22:13:30

End Time: 03:45:30

Time On Btm: 2012.10.27 @ 00:05:30

Time Off Btm: 2012.10.27 @ 02:12:30

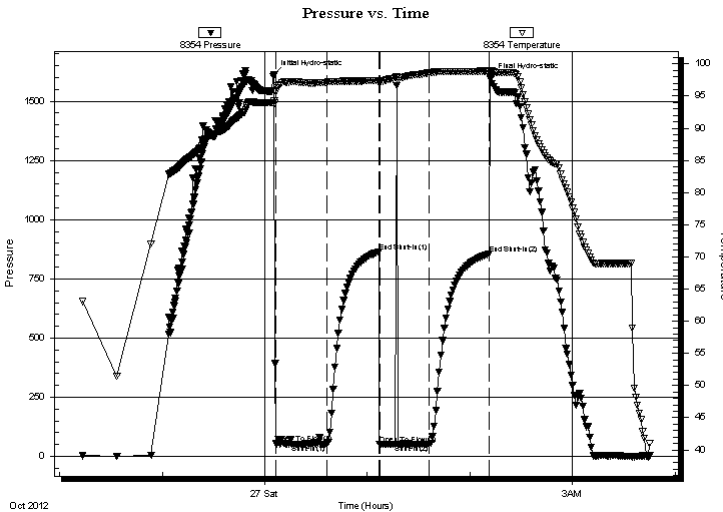
TEST COMMENT: IF-Weak blow . Built to 3 inches. Died off to surface. Slid 12'-15' after tool opening.

ISI-No Return.

FF-No Blow . Flushed Tool. Weak surface blow . Died @ 12 minutes.

FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.71	94.23	Initial Hydro-static
1	54.12	95.59	Open To Flow (1)
31	51.21	97.13	Shut-In(1)
61	863.95	97.40	End Shut-In(1)
62	51.68	97.04	Open To Flow (2)
91	51.47	98.65	Shut-In(2)
126	854.49	98.89	End Shut-In(2)
127	1600.48	98.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	100%Mud	0.71

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.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48601

DST#: 1

ATTN: Al Dow ning

Test Start: 2012.10.26 @ 22:03:30

Tool Information

Drill Pipe:	Length: 3290.00 ft	Diameter: 3.80 inches	Volume: 46.15 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:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	15000.00 lb
			<u>Total Volume: 46.30 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3312.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	23.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Packer	5.00			3308.00	20.00 Bottom Of Top Packer
Packer	4.00			3312.00	
Stubb	1.00			3313.00	
Perforations	2.00			3315.00	
Recorder	0.00	8354	Inside	3315.00	
Recorder	0.00	8520	Outside	3315.00	
Perforations	17.00			3332.00	
Bullnose	3.00			3335.00	23.00 Bottom Packers & Anchor

Total Tool Length: 43.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48601

DST#: 1

ATTN: Al Dow ning

Test Start: 2012.10.26 @ 22:03:30

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	100%Mud	0.709

Total Length: 70.00 ft Total Volume: 0.709 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8354

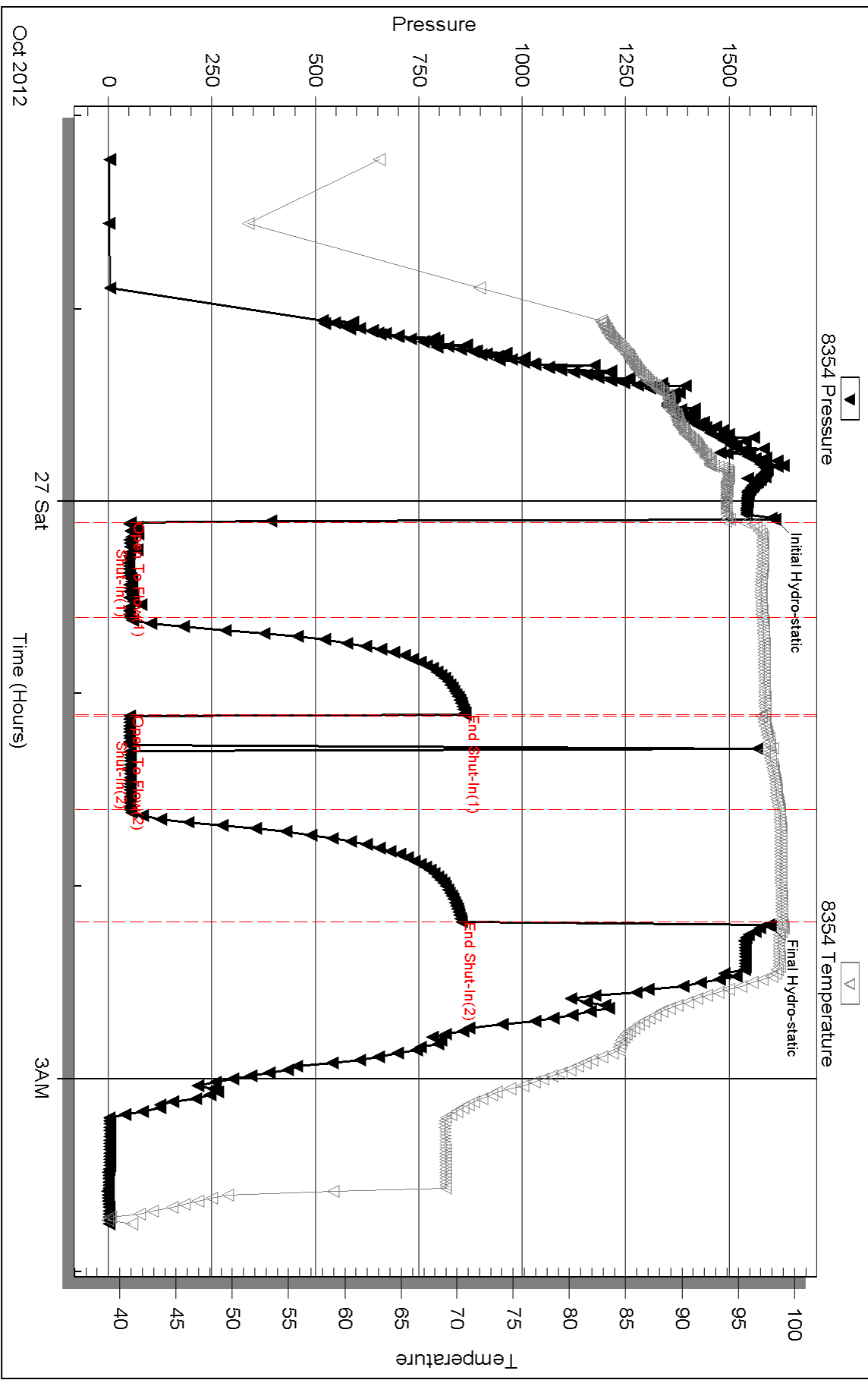
Inside

Downing-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 48601

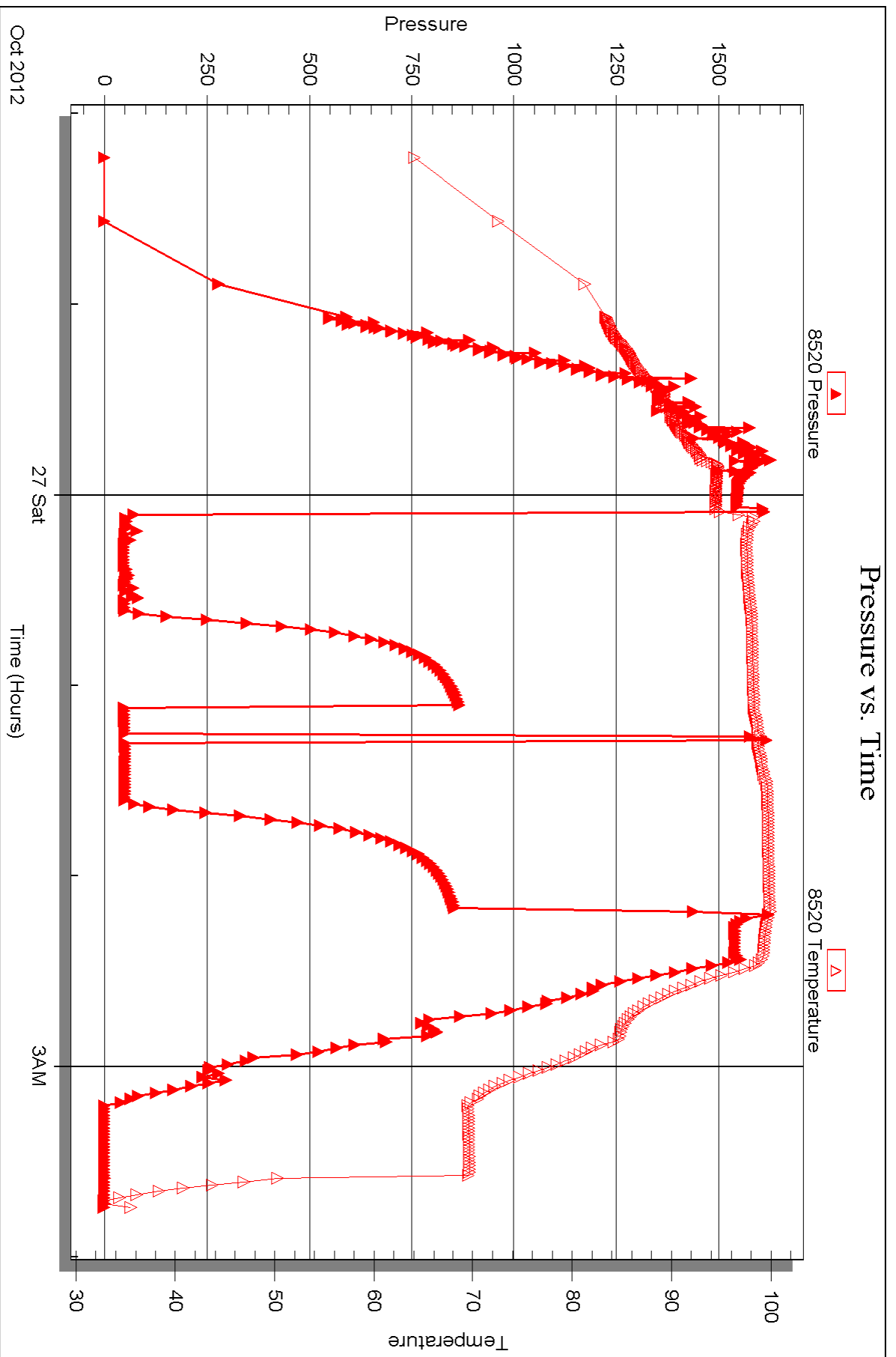
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Serial #: 8520

Outside Dow nting-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 48601

Printed: 2012.11.01 @ 14:25:14



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

Holland #1-24

24-16s-17w Rush,KS

Start Date: 2012.10.27 @ 13:18:30

End Date: 2012.10.27 @ 19:06:30

Job Ticket #: 48602 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.01 @ 14:24:23



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48602

DST#: 2

ATTN: Al Dow ning

Test Start: 2012.10.27 @ 13:18:30

GENERAL INFORMATION:

Formation: **LKC "E-F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:55:30

Time Test Ended: 19:06:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3354.00 ft (KB) To 3386.00 ft (KB) (TVD)

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3386.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 139.76 psig @ 3357.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.27

End Date:

2012.10.27

Last Calib.: 2012.10.27

Start Time: 13:28:30

End Time:

19:06:30

Time On Btm: 2012.10.27 @ 14:55:20

Time Off Btm: 2012.10.27 @ 17:31:30

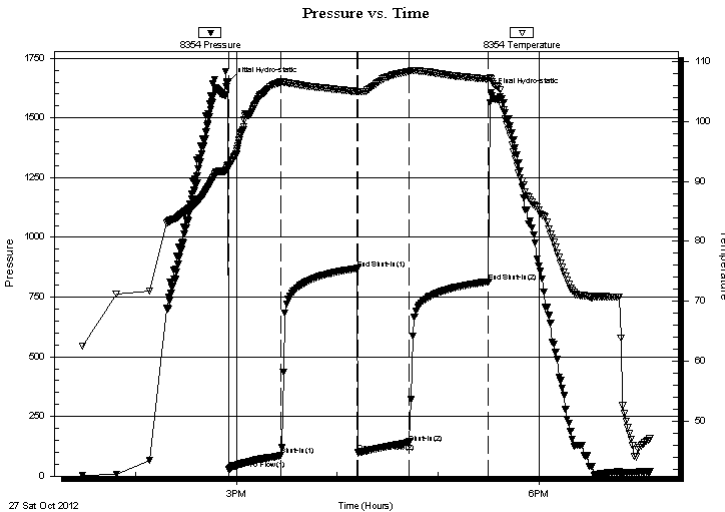
TEST COMMENT: IF-Weak building blow . BOB in 19 minutes 45 seconds.

ISI-No Return.

FF-Weak building blow . BOB in 30 minutes.

FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1653.00	92.73	Initial Hydro-static
1	27.36	92.24	Open To Flow (1)
32	87.51	106.58	Shut-In(1)
77	869.54	104.95	End Shut-In(1)
78	98.31	104.90	Open To Flow (2)
108	139.76	108.31	Shut-In(2)
155	814.05	107.05	End Shut-In(2)
157	1606.34	107.02	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
270.00	80%Water/20%Mud	3.51

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48602

DST#: 2

ATTN: Al Dow ning

Test Start: 2012.10.27 @ 13:18:30

Tool Information

Drill Pipe:	Length: 3322.00 ft	Diameter: 3.80 inches	Volume: 46.60 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:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	10000.00 lb
			<u>Total Volume: 46.75 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3354.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	32.00 ft				
Tool Length:	52.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3335.00	
Shut In Tool	5.00			3340.00	
Hydraulic tool	5.00			3345.00	
Packer	5.00			3350.00	20.00 Bottom Of Top Packer
Packer	4.00			3354.00	
Stubb	1.00			3355.00	
Perforations	2.00			3357.00	
Recorder	0.00	8354	Inside	3357.00	
Recorder	0.00	8520	Outside	3357.00	
Perforations	26.00			3383.00	
Bullnose	3.00			3386.00	32.00 Bottom Packers & Anchor

Total Tool Length: 52.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48602

DST#: 2

ATTN: Al Dow ning

Test Start: 2012.10.27 @ 13:18:30

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:

13500 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: 0.81 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
270.00	80%Water/20%Mud	3.514

Total Length: 270.00 ft Total Volume: 3.514 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

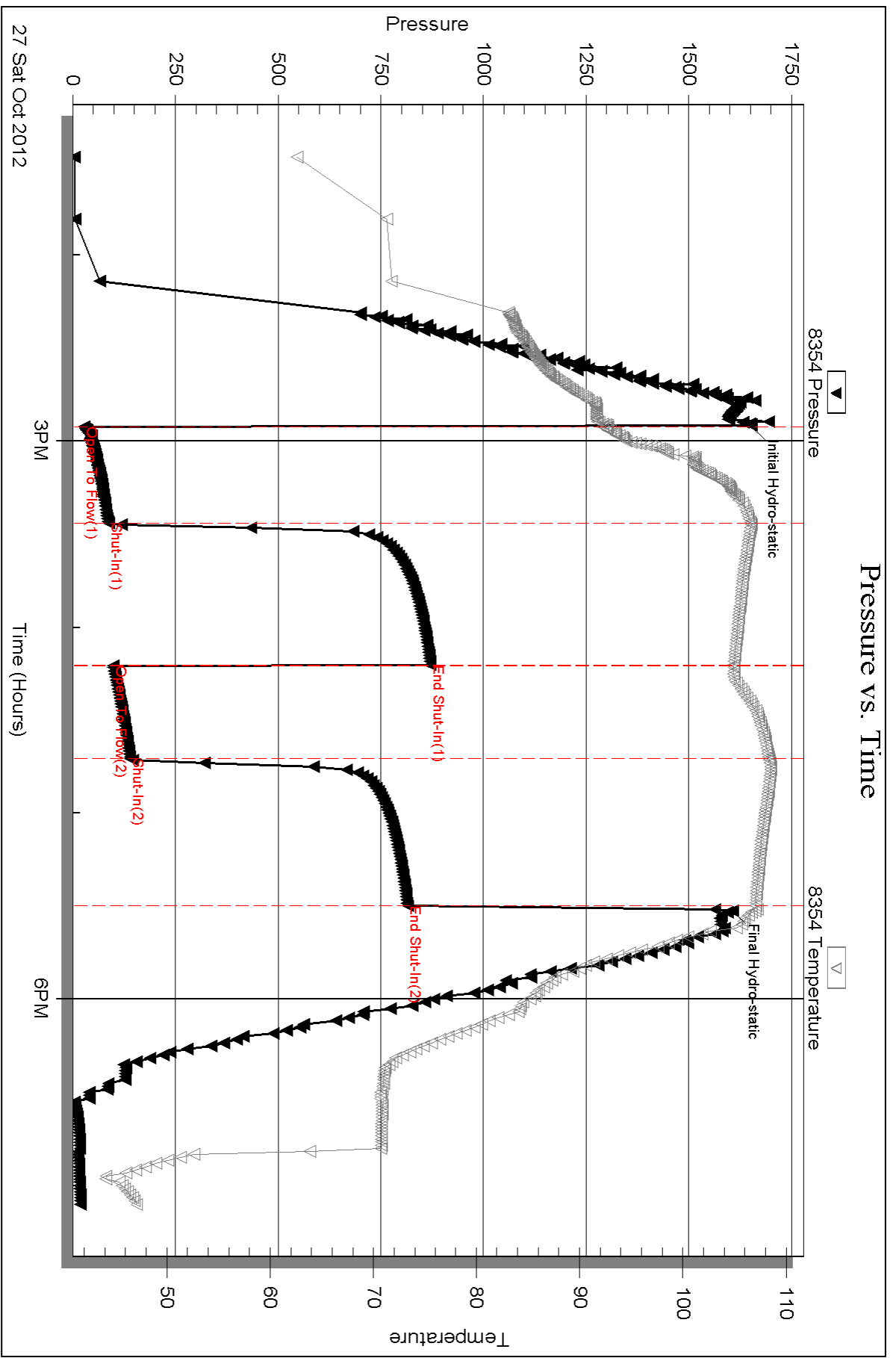
Serial #: 8354

Inside

Dow nting-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48602

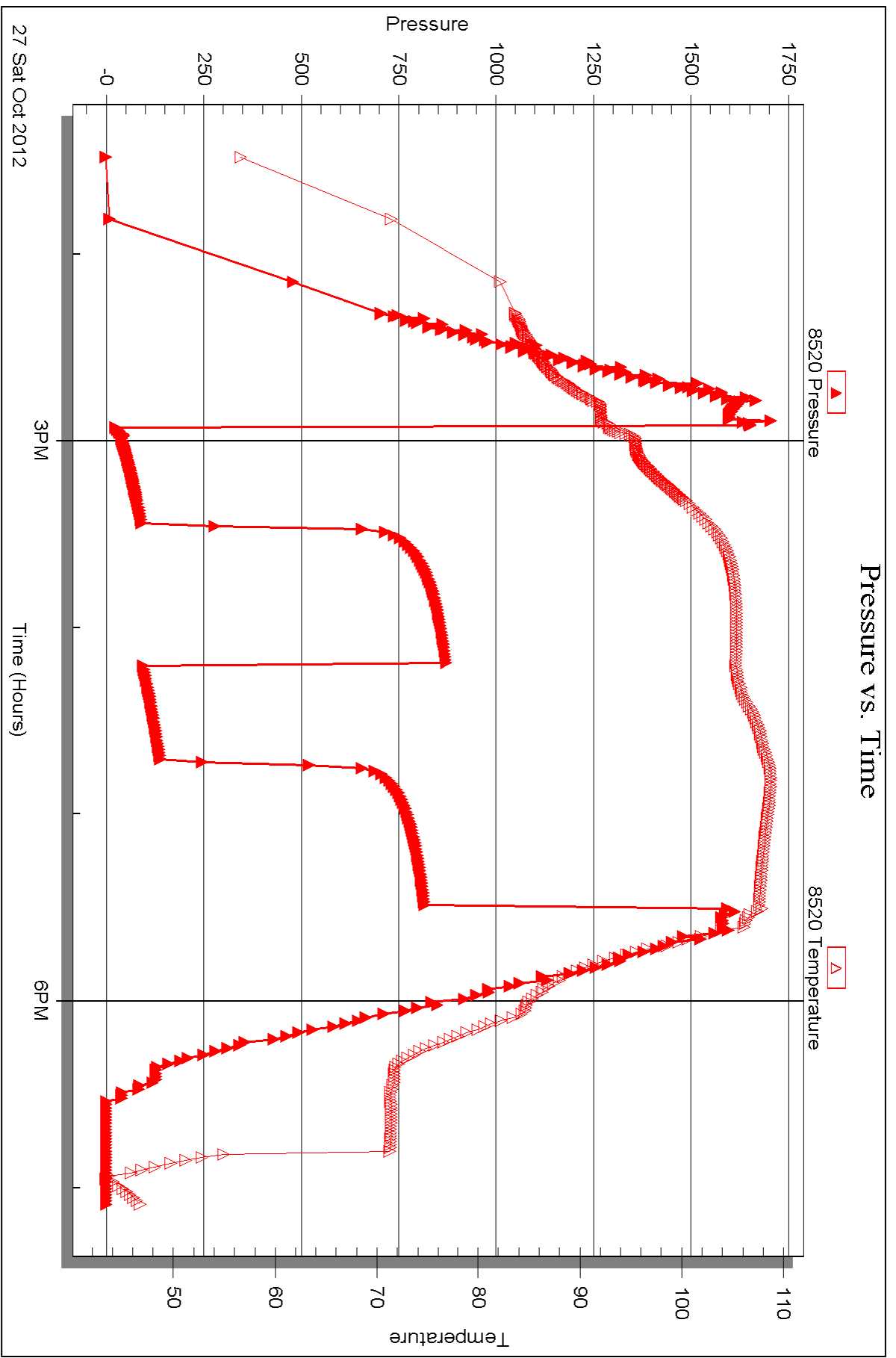
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Serial #: 8520

Outside Dow nging-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 48602

Printed: 2012.11.01 @ 14:24:28



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

Holland #1-24

24-16s-17w Rush,KS

Start Date: 2012.10.28 @ 09:46:30

End Date: 2012.10.28 @ 15:16:30

Job Ticket #: 48603 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.01 @ 14:23:35



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48603

DST#: 3

ATTN: Al Dow ning

Test Start: 2012.10.28 @ 09:46:30

GENERAL INFORMATION:

Formation: **LKC "K&L"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:31:30

Time Test Ended: 15:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3485.00 ft (KB) To 3525.00 ft (KB) (TVD)

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3525.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 19.62 psig @ 3488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.28

End Date:

2012.10.28

Last Calib.:

2012.10.28

Start Time:

09:46:30

End Time:

15:16:30

Time On Btm:

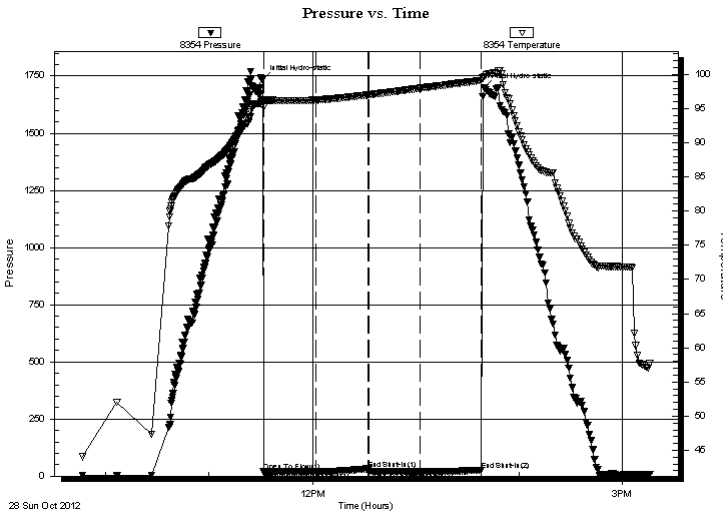
2012.10.28 @ 11:31:20

Time Off Btm:

2012.10.28 @ 13:40:00

TEST COMMENT: IF-Weak surface blow . Surging @ 25 minutes.
IS- No Return.
FF-Weak surface blow . Surging @ 21 minutes.
FS- No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1735.66	96.30	Initial Hydro-static
1	18.80	95.21	Open To Flow (1)
31	19.55	96.25	Shut-In(1)
62	32.07	97.02	End Shut-In(1)
62	21.55	97.03	Open To Flow (2)
92	19.62	97.98	Shut-In(2)
127	25.69	99.12	End Shut-In(2)
129	1699.93	99.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	10%Oil/90%Mud	0.01
1.00	100%Oil	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.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48603

DST#: 3

ATTN: Al Dow ning

Test Start: 2012.10.28 @ 09:46:30

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.80 inches	Volume: 48.34 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:	24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	5000.00 lb
			<u>Total Volume: 48.49 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3485.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	40.00 ft				
Tool Length:	60.00 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			3466.00	
Shut In Tool	5.00			3471.00	
Hydraulic tool	5.00			3476.00	
Packer	5.00			3481.00	20.00 Bottom Of Top Packer
Packer	4.00			3485.00	
Stubb	1.00			3486.00	
Perforations	2.00			3488.00	
Recorder	0.00	8354	Inside	3488.00	
Recorder	0.00	8520	Outside	3488.00	
Perforations	34.00			3522.00	
Bullnose	3.00			3525.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48603

DST#: 3

ATTN: Al Dow ning

Test Start: 2012.10.28 @ 09:46:30

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.76 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
3.00	10%Oil/90%Mud	0.015
1.00	100%Oil	0.005

Total Length: 4.00 ft Total Volume: 0.020 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

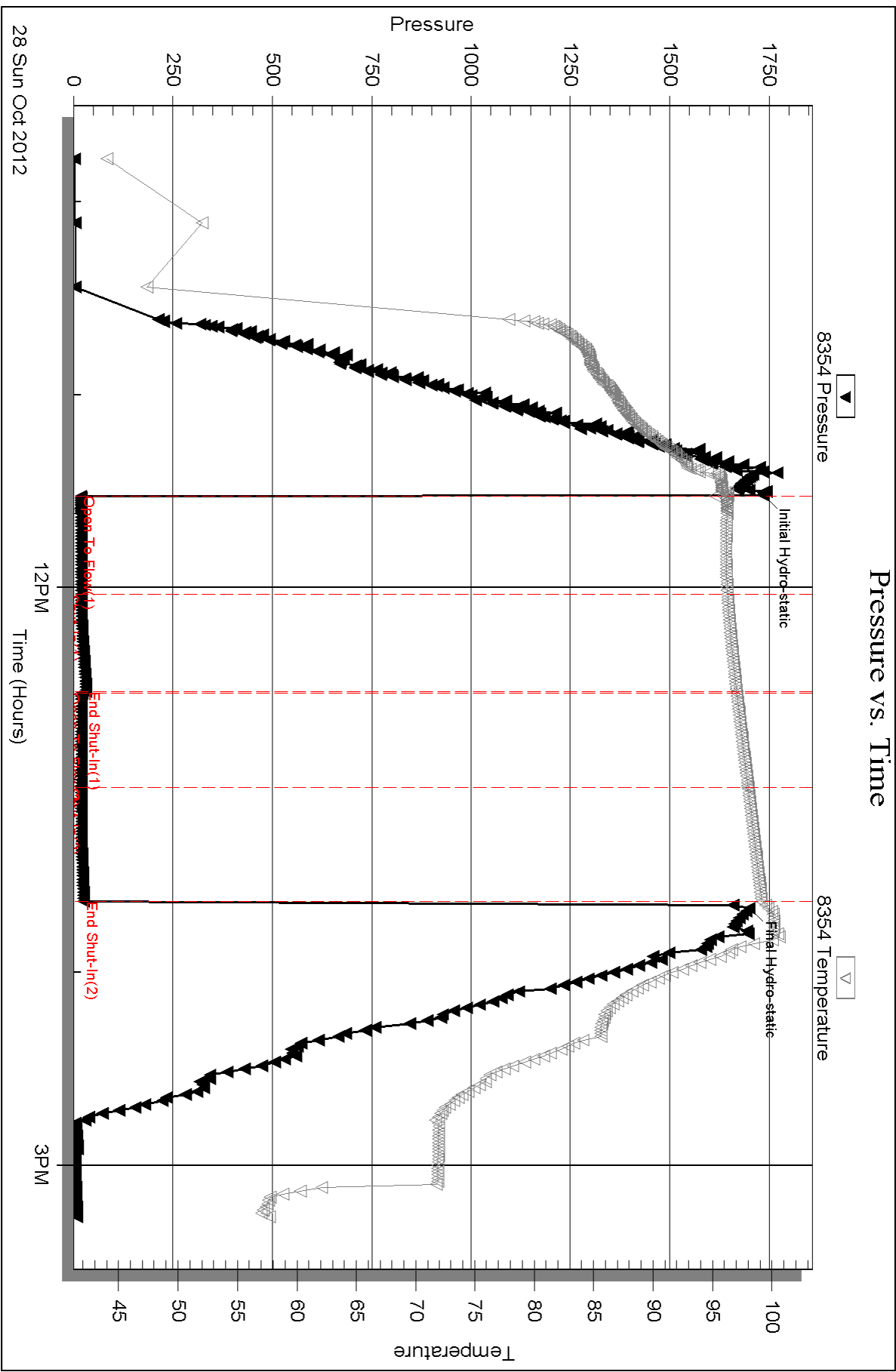
Serial #: 8354

Inside

Dow n/g-nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 3

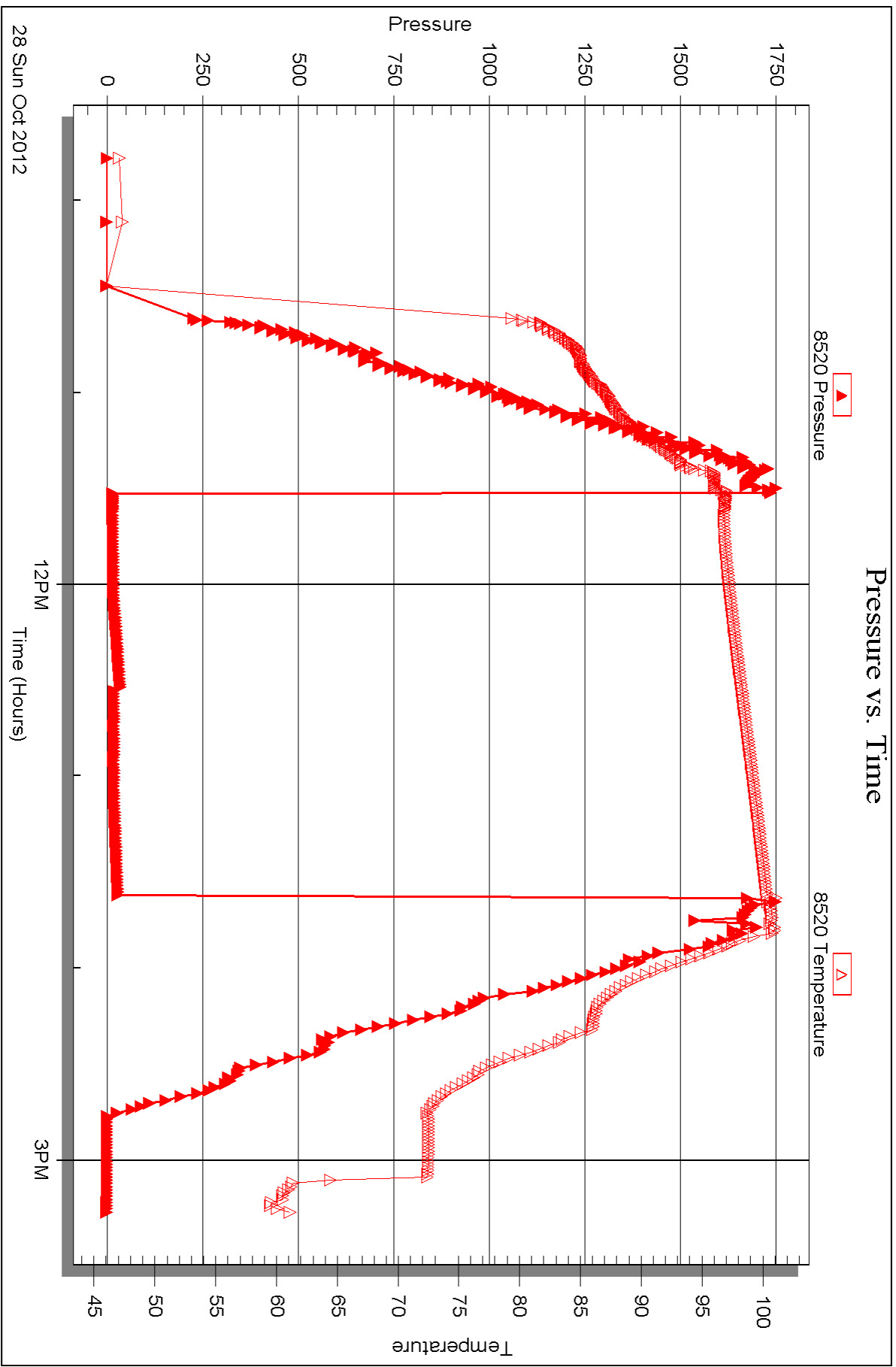


Serial #: 8520

Outside Dow nging-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 48603

Printed: 2012.11.01 @ 14:23:40



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

Holland #1-24

24-16s-17w Rush,KS

Start Date: 2012.10.28 @ 21:53:30

End Date: 2012.10.29 @ 04:27:00

Job Ticket #: 48604 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.01 @ 14:22:42



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48604

DST#: 4

ATTN: Al Dow ning

Test Start: 2012.10.28 @ 21:53:30

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:30:40

Time Test Ended: 04:27:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

Interval: 3520.00 ft (KB) To 3560.00 ft (KB) (TVD)

Reference Elevations: 2009.00 ft (KB)

Total Depth: 3560.00 ft (KB) (TVD)

2004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 1057.84 psig @ 3523.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.10.28

End Date:

2012.10.29

Last Calib.:

2012.10.29

Start Time: 21:53:30

End Time:

04:27:00

Time On Btm:

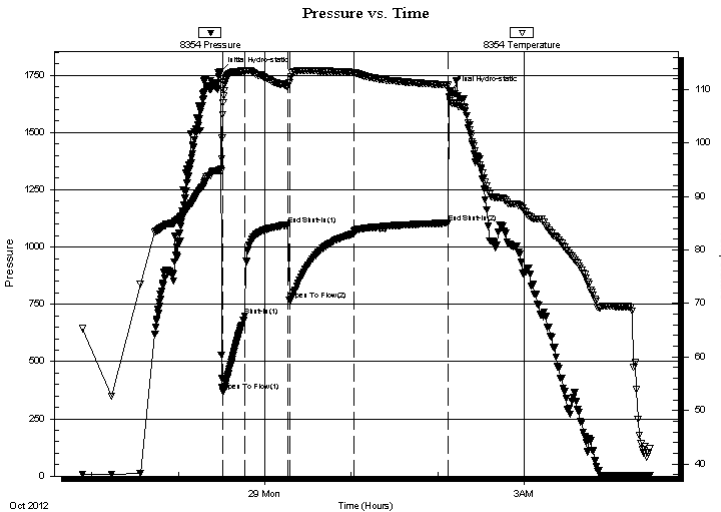
2012.10.28 @ 23:29:30

Time Off Btm:

2012.10.29 @ 02:08:30

TEST COMMENT: IF-Strong building blow . BOB in 30 seconds.
ISI-Return @ 1 minute. Built to 1 & 1/2 inches.
FF-Strong building blow . BOB in 30 seconds.
FSI-No Return.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.75	95.11	Initial Hydro-static
2	370.61	105.28	Open To Flow (1)
17	698.71	113.43	Shut-In(1)
47	1095.36	110.55	End Shut-In(1)
48	768.66	111.30	Open To Flow (2)
92	1057.84	113.19	Shut-In(2)
158	1104.49	110.82	End Shut-In(2)
159	1682.10	107.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2079.00	95%Water/5%Mud	28.89
504.00	90%Water/10%Mud	7.07

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.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48604

DST#: 4

ATTN: Al Dow ning

Test Start: 2012.10.28 @ 21:53:30

Tool Information

Drill Pipe:	Length: 3477.00 ft	Diameter: 3.80 inches	Volume: 48.77 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: 24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 48.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3520.00 ft			Final lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	40.00 ft			
Tool Length:	60.00 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			3501.00	
Shut In Tool	5.00			3506.00	
Hydraulic tool	5.00			3511.00	
Packer	5.00			3516.00	20.00 Bottom Of Top Packer
Packer	4.00			3520.00	
Stubb	1.00			3521.00	
Perforations	2.00			3523.00	
Recorder	0.00	8354	Inside	3523.00	
Recorder	0.00	8520	Outside	3523.00	
Perforations	34.00			3557.00	
Bullnose	3.00			3560.00	40.00 Bottom Packers & Anchor

Total Tool Length: 60.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co., Inc.

24-16s-17w Rush, KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48604

DST#: 4

ATTN: Al Downing

Test Start: 2012.10.28 @ 21:53:30

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:

20000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.17 in³

Gas Cushion Type:

Resistivity: 0.56 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
2079.00	95%Water/5%Mud	28.890
504.00	90%Water/10%Mud	7.070

Total Length: 2583.00 ft Total Volume: 35.960 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

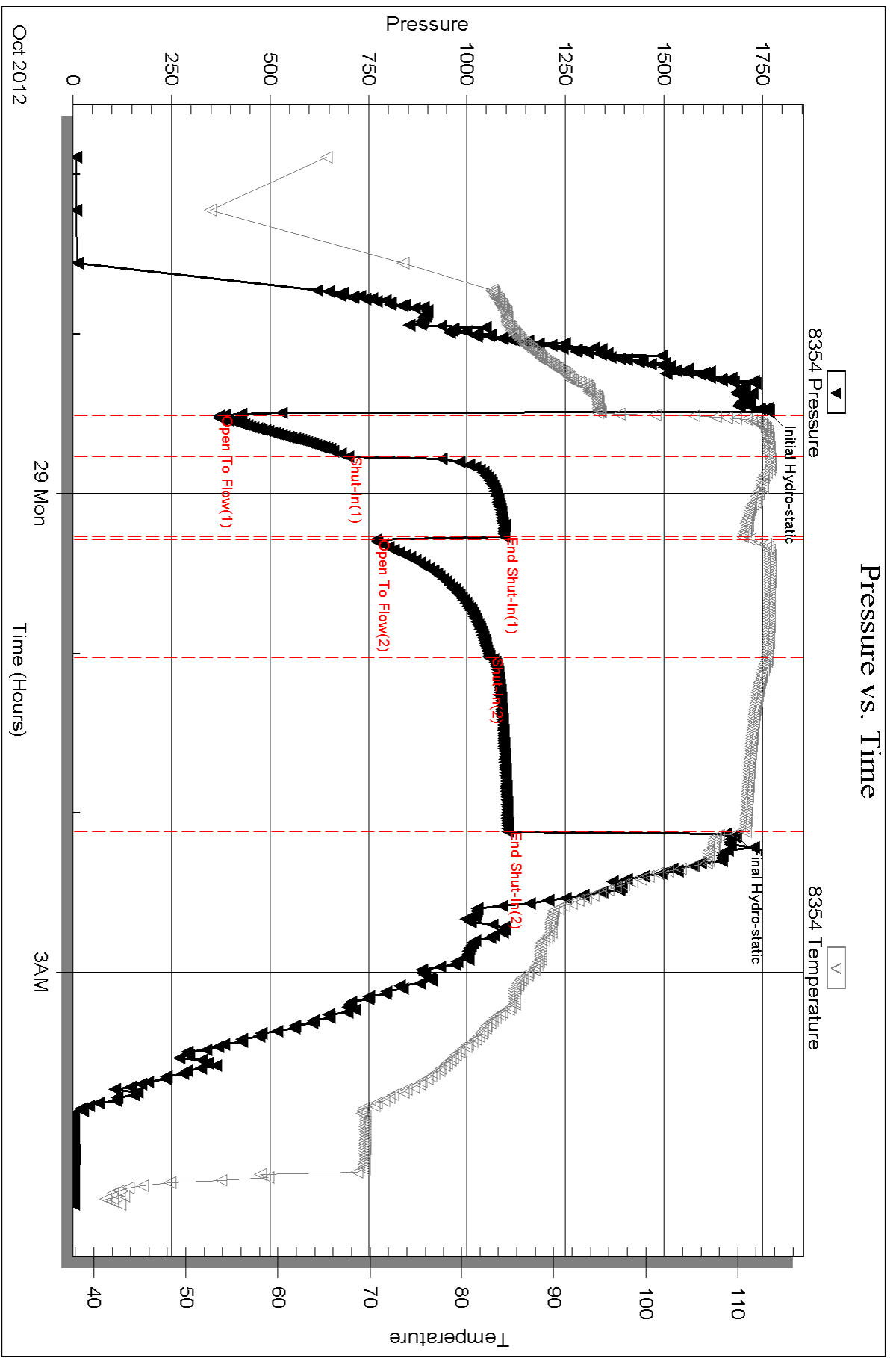
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Inside

Downing-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 4

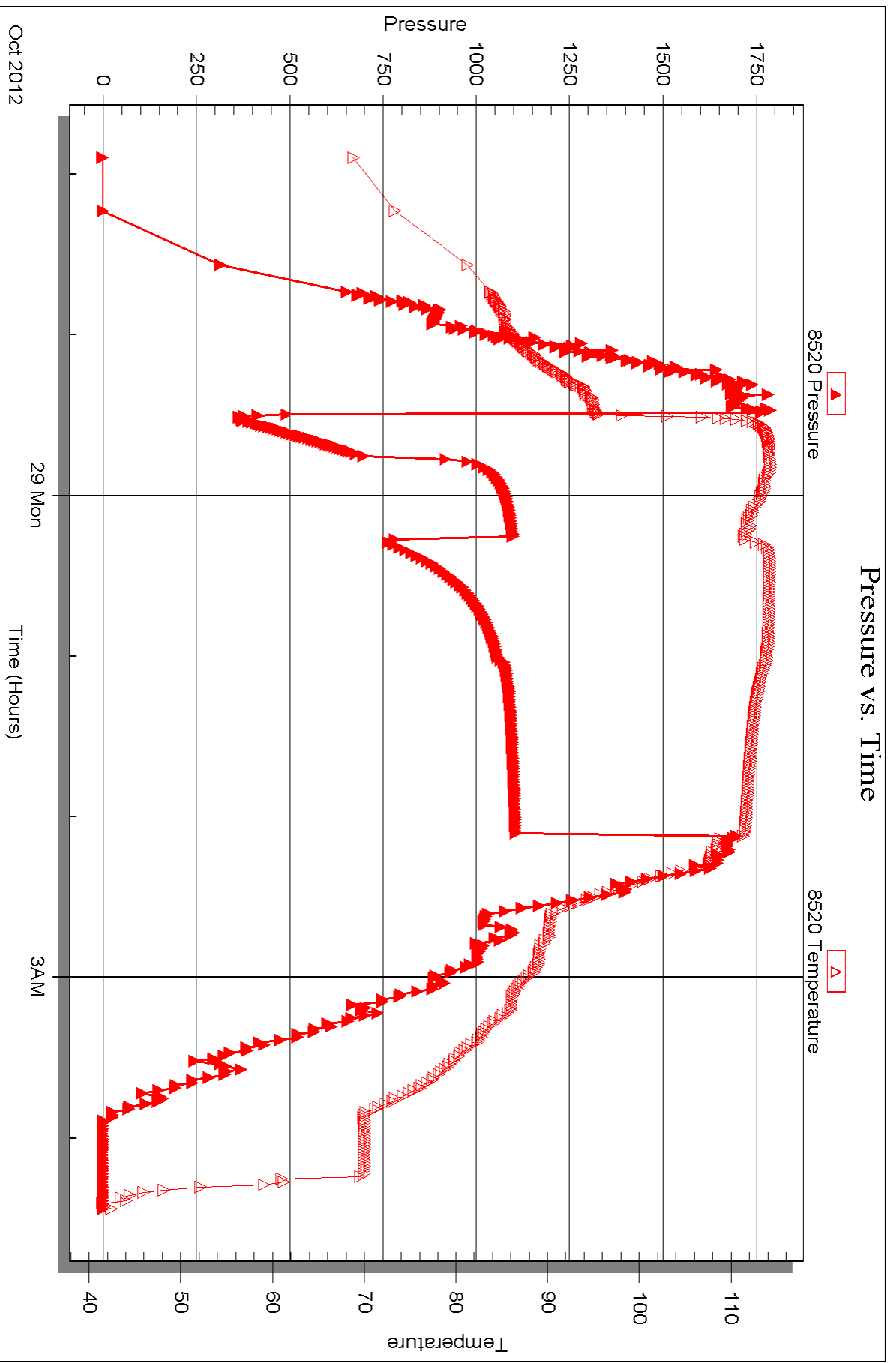


Serial #: 8520

Outside Dow nting-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 4





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

Holland #1-24

24-16s-17w Rush,KS

Start Date: 2012.10.29 @ 18:12:15

End Date: 2012.10.29 @ 23:54:45

Job Ticket #: 48605 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2012.11.01 @ 14:21:07

Downing-Nelson Oil Co., Inc.
24-16s-17w Rush,KS
Holland #1-24
DST # 5
Arbuckle
2012.10.29



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48605

DST#: 5

ATTN: Al Dow ning

Test Start: 2012.10.29 @ 18:12:15

GENERAL INFORMATION:

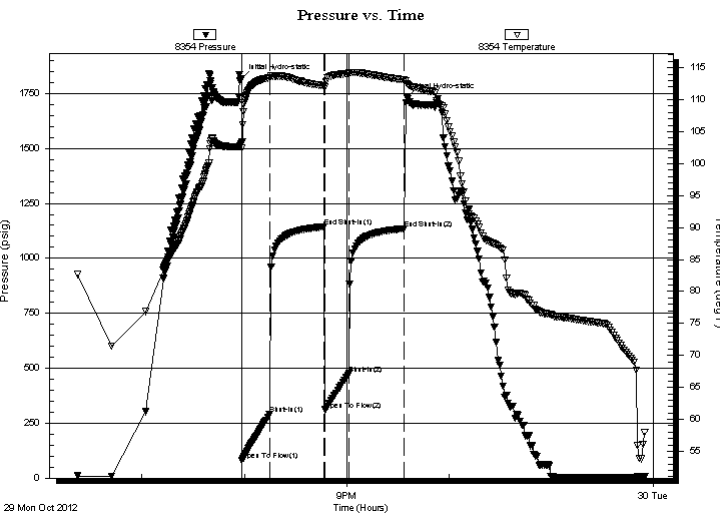
Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:58:35
 Time Test Ended: 23:54:45
 Interval: **3586.00 ft (KB) To 3593.00 ft (KB) (TVD)**
 Total Depth: 3660.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Rash
 Unit No: 38
 Reference Elevations: 2009.00 ft (KB)
 2004.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8354

Inside

Press @ Run Depth: 475.29 psig @ 3587.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.10.29 End Date: 2012.10.29 Last Calib.: 2012.10.29
 Start Time: 18:22:15 End Time: 23:54:45 Time On Btm: 2012.10.29 @ 19:58:25
 Time Off Btm: 2012.10.29 @ 21:35:15

TEST COMMENT: IF-Strong building blow . BOB in 1 minute 45 seconds.
 ISI-Return @ 1 minute. Built to 1&1/2 inches.
 FF-Strong building blow . BOB in 1 minute 45 seconds.
 FSI-No Return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1816.82	103.19	Initial Hydro-static
1	81.87	102.39	Open To Flow (1)
17	289.47	113.46	Shut-In(1)
49	1143.48	112.19	End Shut-In(1)
49	311.13	111.99	Open To Flow (2)
63	475.29	114.10	Shut-In(2)
96	1135.02	113.06	End Shut-In(2)
97	1730.03	112.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
960.00	95%Water/5%Mud	13.19

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing-Nelson Oil Co., Inc.

24-16s-17w Rush, KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48605

DST#: 5

ATTN: Al Downing

Test Start: 2012.10.29 @ 18:12:15

Tool Information

Drill Pipe:	Length: 3543.00 ft	Diameter: 3.80 inches	Volume: 49.70 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: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 5000.00 lb
			<u>Total Volume: 49.85 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3586.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	20.00 Bottom Of Top Packer
Packer	4.00			3586.00	
Stubb	1.00			3587.00	
Recorder	0.00	8354	Inside	3587.00	
Recorder	0.00	8520	Outside	3587.00	
Perforations	3.00			3590.00	
Blank Off Sub	1.00			3591.00	75.00 Tool Interval
Packer	4.00			3595.00	
Stubb	1.00			3596.00	
Change Over Sub	1.00			3597.00	
Recorder	0.00	8653	Below	3597.00	
Drill Pipe	31.00			3628.00	
Change Over Sub	1.00			3629.00	
Perforations	29.00			3658.00	
Bullnose	3.00			3661.00	1000094.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

24-16s-17w Rush,KS

PO Box 1019
Hays, KS 67601

Holland #1-24

Job Ticket: 48605

DST#: 5

ATTN: Al Dow ning

Test Start: 2012.10.29 @ 18:12:15

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:

22000 ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: 0.45 ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
960.00	95%Water/5%Mud	13.193

Total Length: 960.00 ft Total Volume: 13.193 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

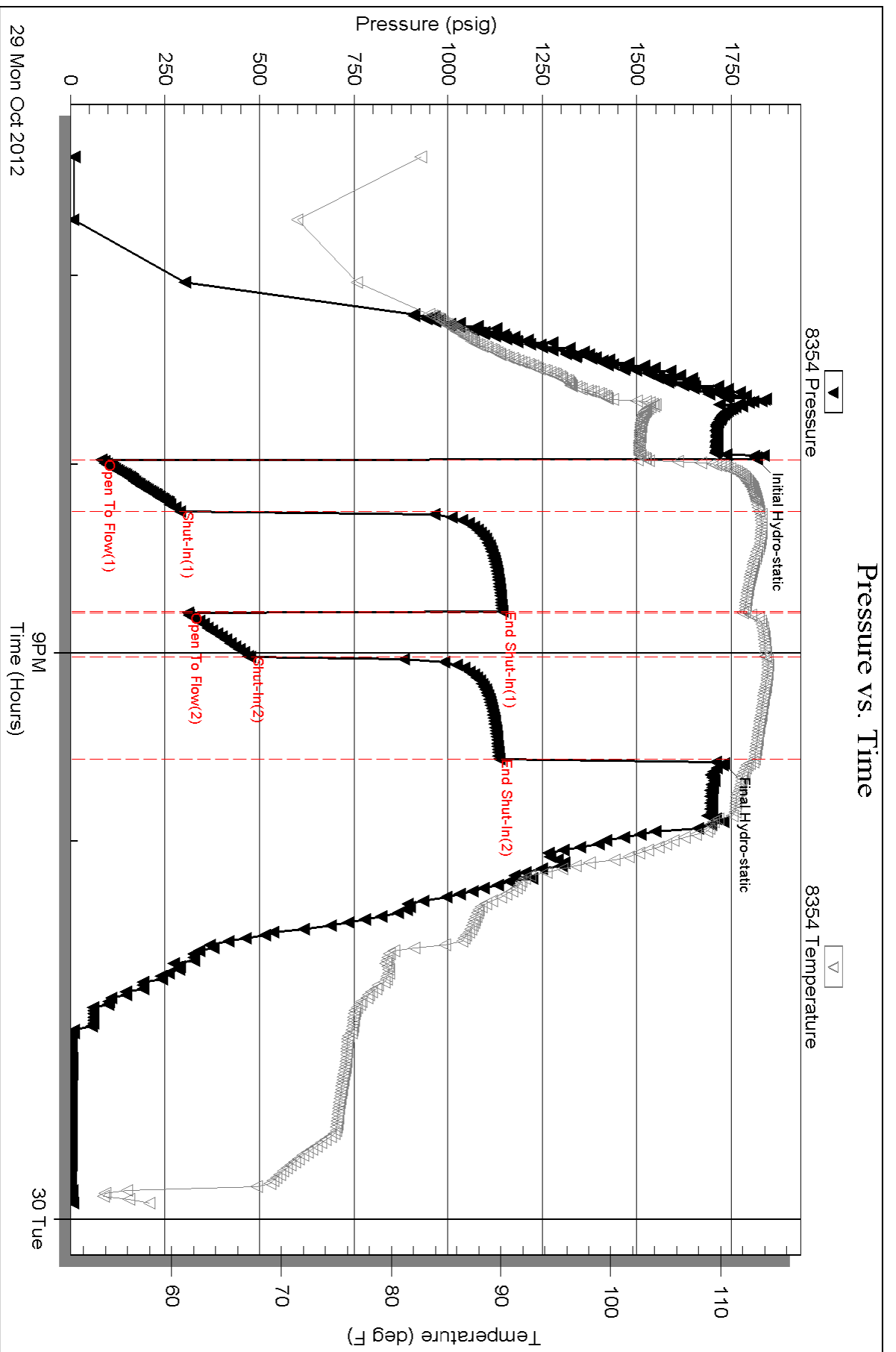
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Inside

Dow nung-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 5

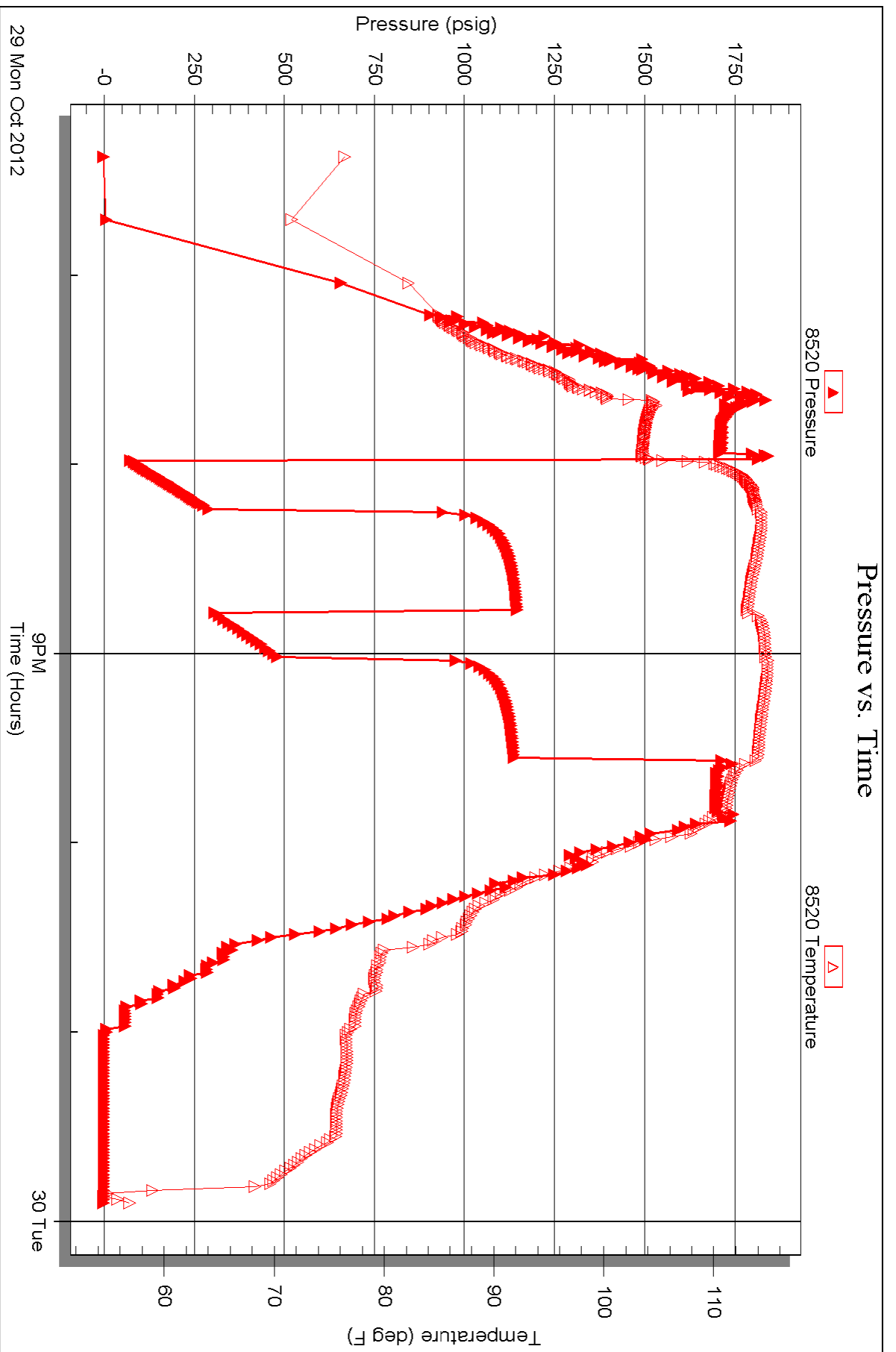


Serial #: 8520

Outside Dow nging-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 48605

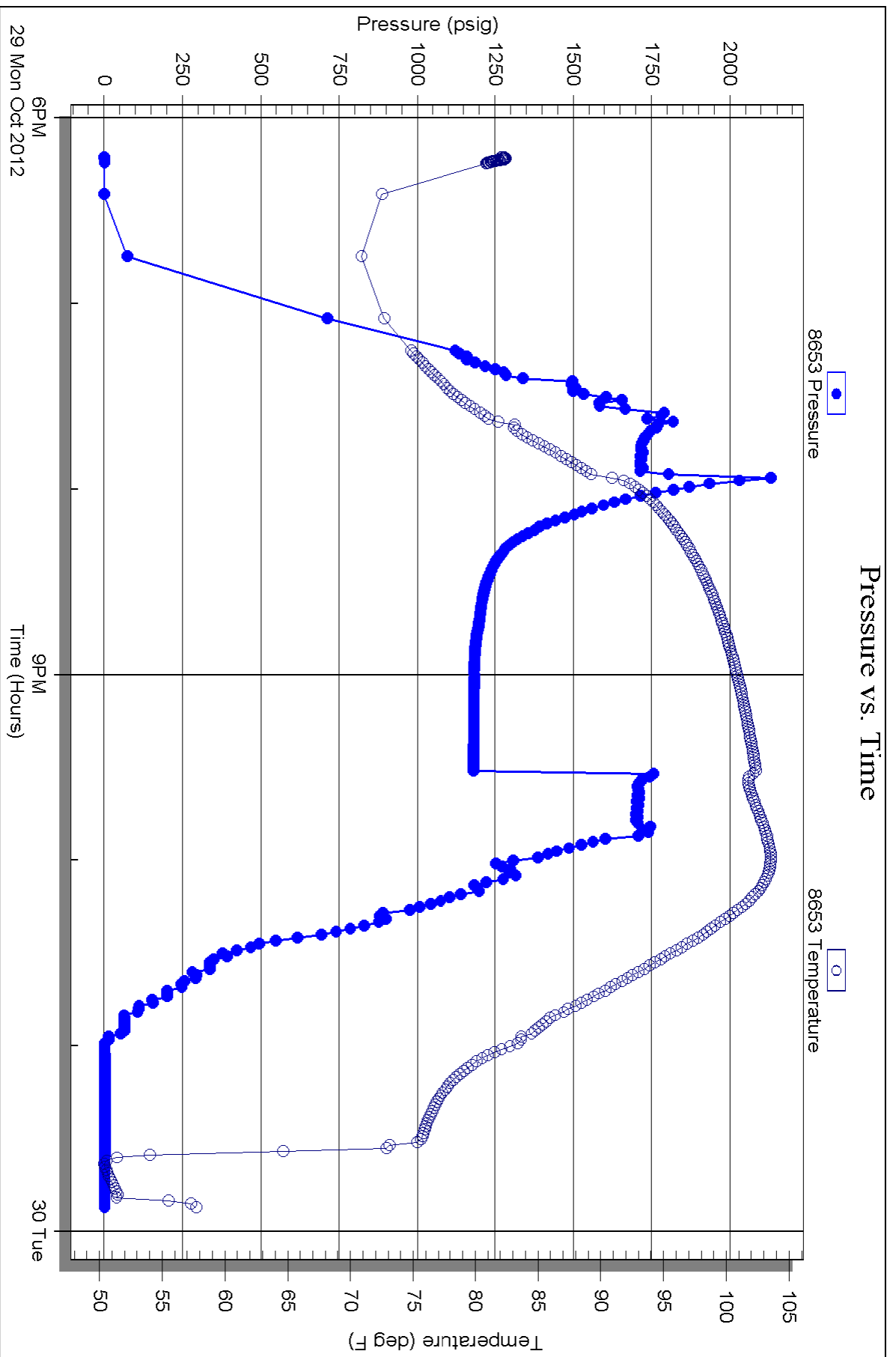
Printed: 2012.11.01 @ 14:21:12

Serial #: 8653

Below (Stratton)ng-Nelson Oil Co., Inc.

Holland #1-24

DST Test Number: 5





TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48601

Well Name & No. Holland #1-24 Test No. 1 Date 10-26-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2009 KB 2004 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery 4
 Location: Sec. 24 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3312-3335 Zone Tested LKC "C"
 Anchor Length 23' Drill Pipe Run 3290 Mud Wt. 8.8
 Top Packer Depth 3307 Drill Collars Run 30.47 Vis 55
 Bottom Packer Depth 3312 Wt. Pipe Run 0 WL 8.8
 Total Depth 3335 Chlorides 3000 ppm System LCM 2#

Blow Description IF - Weak blow. Built to 3 inches. Died to surface. Slid 12'-15'
~~ISL - No Return.~~
FF - No Blow. Flushed tool. Weak surface blow. Died @ 12 minutes.
~~FSL - No Return.~~

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>Mud</u>			<u>100</u>	

Rec Total 70 BHT 99 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1611 Test 1150 T-On Location 2100
 (B) First Initial Flow 54 Jars T-Started 2230
 (C) First Final Flow 51 Safety Joint T-Open 0006
 (D) Initial Shut-In 864 Circ Sub T-Pulled 0210
 (E) Second Initial Flow 52 Hourly Standby T-Out 0345
 (F) Second Final Flow 51 Mileage 25X2 77.50 Comments BHT-2203
 (G) Final Shut-In 854 Sampler Slid 12'-15'
 (H) Final Hydrostatic 1600 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 1227.50
 Final Flow 30 Accessibility MP/DST Disc't
 Final Shut-In 30 Sub Total 1227.50

Approved By _____ Our Representative D. Rash

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48602

Well Name & No. Holland #1-24 Test No. 2 Date 10-27-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2009 KB 2004 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery 4
 Location: Sec. 24 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3354-3386 Zone Tested LKC "E-F"
 Anchor Length 32' Drill Pipe Run 3322 Mud Wt. 8.8
 Top Packer Depth 3349 Drill Collars Run 30.47 Vis 51
 Bottom Packer Depth 3354 Wt. Pipe Run 0 WL 8.8
 Total Depth 3386 Chlorides 4000 ppm System LCM 2#

Blow Description IF- Weak building blow, BOB in 19 minutes 45 seconds.
IST- No Return.
FF- Weak building blow. BOB in 30 minutes.
FSE- No Return.

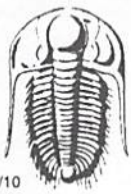
Rec	Feet of	%gas	%oil	%water	%mud
<u>270</u>	<u>Muddy water</u>		<u>80</u>	<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 270 BHT 108 Gravity 1.150 API RW 1814 @ 42 °F Chlorides 13500 ppm

(A) Initial Hydrostatic 1653 Test 1150 T-On Location 1245
 (B) First Initial Flow 27 Jars _____ T-Started 1330
 (C) First Final Flow 88 Safety Joint _____ T-Open 1455
 (D) Initial Shut-In 870 Circ Sub _____ T-Pulled 1730
 (E) Second Initial Flow 98 Hourly Standby _____ T-Out 1900
 (F) Second Final Flow 140 Mileage 25X2 77.50 Comments BATT-1318
 (G) Final Shut-In 814 Sampler _____
 (H) Final Hydrostatic 1606 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1227.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1227.50

Approved By _____ Our Representative

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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48603

Well Name & No. Holland #1-24 Test No. 3 Date 10-28-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2009 KB 2004 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery 4
 Location: Sec. 24 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3485-3525 Zone Tested LKC "K-L"
 Anchor Length 40' Drill Pipe Run 3446 Mud Wt. 8.8
 Top Packer Depth 3480 Drill Collars Run 30.47 Vis 51
 Bottom Packer Depth ~~3480~~ 3485 Wt. Pipe Run 0 WL 8.8
 Total Depth 3525 Chlorides 4000 ppm System LCM 2#

Blow Description IF-Weak surface blow, Surging @ 25 minutes,
ISI- No Return.
FF- Weak surface blow, Surging @ 21 minutes,
FBI- No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>0.1</u>	<u>100</u>			
<u>3</u>	<u>SOCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 4 BHT 100 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1736 Test 1150 T-On Location 0845
 (B) First Initial Flow 19 Jars _____ T-Started 0945
 (C) First Final Flow 20 Safety Joint _____ T-Open 1132
 (D) Initial Shut-In 32 Circ Sub _____ T-Pulled 1335
 (E) Second Initial Flow 22 Hourly Standby _____ T-Out 1515
 (F) Second Final Flow 20 Mileage 25X2 77.50 Comments BHT-0936
 (G) Final Shut-In 26 Sampler _____
 (H) Final Hydrostatic 1700 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 1227.50
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1227.50

Approved By _____ Our Representative D. Rash
 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.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48604

Well Name & No. Holland #1-24 Test No. 4 Date 10-28-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2009 KB 2004 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery 4
 Location: Sec. 24 Twp. 18S Rge. 17W Co. Rush State KS

Interval Tested 3520-3560 Zone Tested Arbuckle
 Anchor Length 40' Drill Pipe Run 3477 Mud Wt. 9.3
 Top Packer Depth 3515 Drill Collars Run 30.47 Vis 44
 Bottom Packer Depth 3520 Wt. Pipe Run 0 WL 10.2
 Total Depth 3560 Chlorides 4000 ppm System LCM 2#

Blow Description IF - Strong building blow, BOB in 30 seconds.
IF - Return @ 1 minute. Built to 1 1/2 inches.
FF - Strong building blow, BOB in 30 seconds.
FST - No Return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>504</u>	<u>Muddy water</u>			<u>90%</u>	<u>10%</u>
<u>2079</u>	<u>Muddy water</u>			<u>95%</u>	<u>5%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 2583 BHT 113 Gravity 1150 API RW 1562 @ 41 °F Chlorides 20,000 ppm

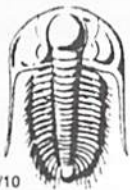
(A) Initial Hydrostatic 1767 Test 1150 T-On Location 2130
 (B) First Initial Flow 371 Jars _____ T-Started 2200
 (C) First Final Flow 699 Safety Joint _____ T-Open 2330
 (D) Initial Shut-In 1095 Circ Sub _____ T-Pulled 0205
 (E) Second Initial Flow 769 Hourly Standby _____ T-Out 0430
 (F) Second Final Flow 1058 Mileage 25X2 77.50 Comments Best-2143
 (G) Final Shut-In 1104 Sampler _____
 (H) Final Hydrostatic 1682 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 45
 Final Shut-In 60

Sub Total 1227.50 Total 1227.50 MP/DST Disc't _____

Approved By _____ Our Representative

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TRILOBITE TESTING INC.

P.O. Box 1733 • Hays, Kansas 67601

Test Ticket

NO. 48605

Well Name & No. Holland #1-24 Test No. 5 Date 10-29-12
 Company Downing-Nelson Oil Co., Inc. Elevation 2009 KB 2004 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Al Downing Rig Discovery 4
 Location: Sec. 24 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3586-3593 Zone Tested Ambuckle
 Anchor Length 7' 66' TP Drill Pipe Run 3543 Mud Wt. 9.3
 Top Packer Depth 3581 Drill Collars Run 30.47 Vis 44
 Bottom Packer Depth 3586 Wt. Pipe Run 0 WL 10.2
 Total Depth 3659 Chlorides 4000 ppm System LCM 2#

Blow Description IF- Spring building blow. BOB in 1 minute 45 seconds,
IST- Return @ 1 minute, Built to 1 1/2 inches,
FF- Spring building blow. BOB in 1 minute 45 seconds,
FST- No Return,

Rec	Feet of	%gas	%oil	%water	%mud
<u>960</u>	<u>Muddy water</u>			<u>95%</u>	<u>5%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 960 BHT 114 Gravity API RW 454 @ 48 ° F Chlorides 22000 ppm

(A) Initial Hydrostatic 1817 Test 1150 T-On Location 1715
 (B) First Initial Flow 82 Jars _____ T-Started 1815
 (C) First Final Flow 289 Safety Joint _____ T-Open 1959
 (D) Initial Shut-In 1143 Circ Sub _____ T-Pulled 2130
 (E) Second Initial Flow 311 Hourly Standby _____ T-Out 2400
 (F) Second Final Flow 475 Mileage 25X2 77.50 Comments Batt-1812
 (G) Final Shut-In 1135 Sampler _____
 (H) Final Hydrostatic 1730 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 15 Sub Total 0
 Initial Shut-In 30 Total 1827.50
 Final Flow 15 MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1827.50

Approved By _____ Our Representative [Signature]

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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 6131

Date	10/23/12	Sec.	24	Twp.	16	Range	17	County	Rush	State	KS	On Location		Finish	7:30 p.m.
Lease								Well No.		Owner					
Holland								1-24		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.					
Contractor										Charge To					
D. Sporey #4										Downing/Wilson					
Type Job										Street					
Surface										City					
Hole Size								T.D.		State					
12 1/4								1132		The above was done to satisfaction and supervision of owner agent or contractor.					
Csg.								Depth		Cement Amount Ordered					
8 5/8								1127		425 cu m 30/100 20/60/1					
Tbg. Size								Depth		Cement					
										Left in Csg. 37					
Tool								Depth		Shoe Joint 37					
										Meas Line Displace 70 RC					
										EQUIPMENT					
										Common 425					
Pumptrk 9								No. Cementer		Poz. Mix					
								Helper		8					
Bulktrk								No. Driver		Gel.					
								Driver		15					
Bulktrk 4								No. Driver		Calcium					
								Driver		15					
										JOB SERVICES & REMARKS					
Remarks:										Hulls					
Rat Hole										Salt					
Mouse Hole										Flowseal					
Centralizers										Kol-Seal					
Baskets										Mud CLR 48					
D/V or Port Collar										CFL-117 or CD110 CAF 38					
8 5/8 on bottom Best Circulation										Sand					
Mix 425 SK + Displace Plug										Handling 448					
Plug landed 800th Cement										Mileage					
Circulated!										FLOAT EQUIPMENT					
										Guide Shoe					
										Centralizer 8 5/8 Baffle Plate					
										Baskets Rubber Plug					
										AFU Inserts					
										Float Shoe					
										Latch Down					
										Pumptrk Charge Long Surface					
										Mileage 26					
										Tax					
										Discount					
										Total Charge					
Signature										Mike Swallen					

