



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: _____



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 Bbbs.	Gas Mcf	Water Bbbs.	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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Scott 1-15
Doc ID	1135583

Tops

Name	Top	Datum
Top Anhydrite	1225'	+881
Base Anhydrite	1250	+856
Heebner	3586'	-1478
LKC	3640'	-1534
Stark Shale	3888'	-1782
BKC	3960'	-1854
Fort Scott	4128'	-2022
Cherokee Shale	4144'	-2039
Cherokee Sand	4150'	-2044
Mississippi	4204'	-2098

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. 6644

Date	4-3-13	Sec.	15	Twp.	21	Range	20	County	Pawnee	State	Ks	On Location		Finish	3:45 AM
------	--------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	---------

Lease **Scott** Location **Rush Center, Ks - S to County line, S to**
Well No. **1-15** Owner **T Rd, 11 W to 340 Rd, 25; 1/2 E, S into**

Contractor **Discovery #4** To Quality Oilwell Cementing, Inc.
Type Job **Surface** You are hereby requested to rent cementing equipment and furnish
cementer and helper to assist owner or contractor to do work as listed.

Hole Size **12 1/4"** T.D. **1191'** Charge To **Downing-Nelson**

Csg. **8 5/8"** Depth **1191'** Street _____ State _____

Tbg. Size _____ Depth _____ City _____ State _____

Tool _____ Depth _____ The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. **42'** Shoe Joint **42'** Cement Amount Ordered **450 sx Common 3% CC**

Meas Line _____ Displace **73 BLS 2% Gel** Common **450**

EQUIPMENT

Pumptrk 15 No.	Cementer Nick	Helper	Poz. Mix
Bulktrk 12 No.	Driver Doug	Driver	Gel. 9
Bulktrk Plu. No.	Driver Rick	Driver	Calcium 16

JOB SERVICES & REMARKS

Remarks: **Cement did Circulate**

Rat Hole _____ Salt _____

Mouse Hole _____ Flowseal _____

Centralizers _____ Kol-Seal _____

Baskets _____ Mud CLR 48 _____

D/V or Port Collar _____ CFL-117 or CD110 CAF 38 _____

_____ Sand _____

_____ Handling **475** _____

_____ Mileage _____

FLOAT EQUIPMENT

Guide Shoe _____

Centralizer _____

Baskets _____

AFU Inserts _____

Float Shoe _____

Latch Down _____

1- Baffle plate

1- Rubber plug

Pumptrk Charge **Long Surface**

Mileage **34**

Thanks

Signature Mike Sandler	Tax _____
	Discount _____
	Total Charge _____

JOB LOG

SWIFT Services, Inc.

DATE 11 APR 13 PAGE NO.

CUSTOMER Downing & Nelson WELL NO. LEASE SCOTT 1-15 JOB TYPE 5 1/2 LONGSTRING TICKET NO. 24658

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1430							ON LOCATION
	1540							START PIPE 5 1/2-14# RTD @ 4243 SET @ SHOE JT. 42,12 CENTRALIZERS 1,3,5,7,9,11 BASKET- 6
	1730				✓			CIRCULATE
	1809	6	12		✓	400		Pump 500 gal MUD FLUSH
		6	20		✓	400		Pump 20 Bbl KCL FLUSH
	1814		7.5					PLUG RH-MA (30sx-20sx)
	1819	4	30		✓			MIX 125sx EA-2
	1829							WASH OUT Pump & LINES.
	1832							START DISPLACING PLUG.
	1847		102 1/2		✓	1500		PLUG DOWN- PSI up LATCH PLUG IN
								RELEASE PSI- DRY
	1850							WASH TRUCK
	1920							JOB COMPLETE
								THANKS #115
								JASON JEFF ISAAC



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company, Inc.**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Scott #1-15

15-21s-20w Pawnee,KS

Start Date: 2013.04.07 @ 20:48:02

End Date: 2013.04.08 @ 03:27:32

Job Ticket #: 52214 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 10:07:24

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

Scott #1-15

DST # 1

Cherokee Sand

2013.04.07



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52214

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.04.07 @ 20:48:02

GENERAL INFORMATION:

Formation: **Cherokee Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 23:01:47
 Time Test Ended: 03:27:32
 Interval: **4128.00 ft (KB) To 4158.00 ft (KB) (TVD)**
 Total Depth: 4158.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54
 Reference Elevations: 2099.00 ft (KB)
 2091.00 ft (CF)
 KB to GR/CF: 8.00 ft

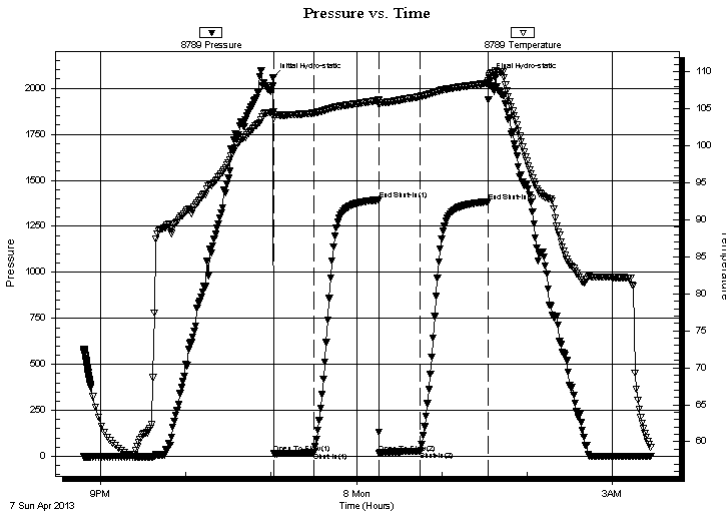
Serial #: 8789

Inside

Press @ Run Depth: 28.64 psig @ 4130.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.07 End Date: 2013.04.08 Last Calib.: 2013.04.08
 Start Time: 20:48:04 End Time: 03:27:32 Time On Btm: 2013.04.07 @ 23:01:17
 Time Off Btm: 2013.04.08 @ 01:33:17

TEST COMMENT: IFP-Good Blow , BOB in 7 min.
 ISI-Dead
 FFP-Strong, BOB on open
 FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2059.42	104.54	Initial Hydro-static
1	18.42	103.75	Open To Flow (1)
29	19.81	104.44	Shut-In(1)
75	1393.44	106.16	End Shut-In(1)
75	15.19	105.75	Open To Flow (2)
104	28.64	106.65	Shut-In(2)
152	1383.17	108.47	End Shut-In(2)
152	2055.96	109.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM-40%O-60%M	0.15
20.00	Free Oil	0.28
0.00	840' Gas In Pipe	0.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52214

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.04.07 @ 20:48:02

GENERAL INFORMATION:

Formation: **Cherokee Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:01:47

Time Test Ended: 03:27:32

Test Type: Conventional Bottom Hole (Initial)

Tester: Jason McLemore

Unit No: 54

Interval: **4128.00 ft (KB) To 4158.00 ft (KB) (TVD)**

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4158.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press @ Run Depth: psig @ 4130.00 ft (KB)

Start Date: 2013.04.07 End Date: 2013.04.08

Start Time: 20:47:34 End Time: 03:27:47

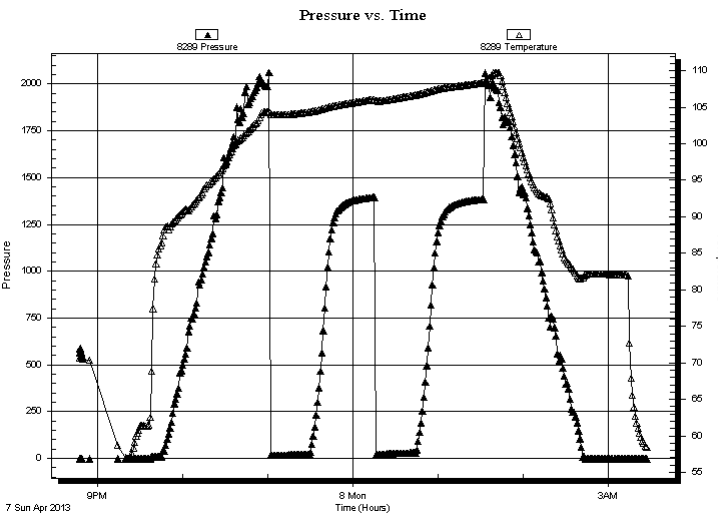
Capacity: 8000.00 psig

Last Calib.: 2013.04.08

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Good Blow , BOB in 7 min.
ISI-Dead
FFP-Strong, BOB on open
FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
30.00	HOCM-40%O-60%M	0.15
20.00	Free Oil	0.28
0.00	840' Gas In Pipe	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 Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52214

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.04.07 @ 20:48:02

Tool Information

Drill Pipe:	Length: 4102.00 ft	Diameter: 3.80 inches	Volume: 57.54 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: 65000.00 lb
			<u>Total Volume: 57.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 61000.00 lb
Depth to Top Packer:	4128.00 ft			Final 63000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	30.00 ft			
Tool Length:	58.00 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			4101.00	
Shut In Tool	5.00			4106.00	
Hydraulic tool	5.00			4111.00	
Jars	5.00			4116.00	
Safety Joint	2.00			4118.00	
Packer	5.00			4123.00	28.00 Bottom Of Top Packer
Packer	5.00			4128.00	
Stubb	1.00			4129.00	
Perforations	1.00			4130.00	
Recorder	0.00	8789	Inside	4130.00	
Recorder	0.00	8289	Outside	4130.00	
Perforations	25.00			4155.00	
Bullnose	3.00			4158.00	30.00 Bottom Packers & Anchor

Total Tool Length: 58.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52214

DST#: 1

ATTN: Marc Downing

Test Start: 2013.04.07 @ 20:48:02

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	HOCM-40%O-60%M	0.148
20.00	Free Oil	0.281
0.00	840' Gas In Pipe	0.000

Total Length: 50.00 ft Total Volume: 0.429 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8789

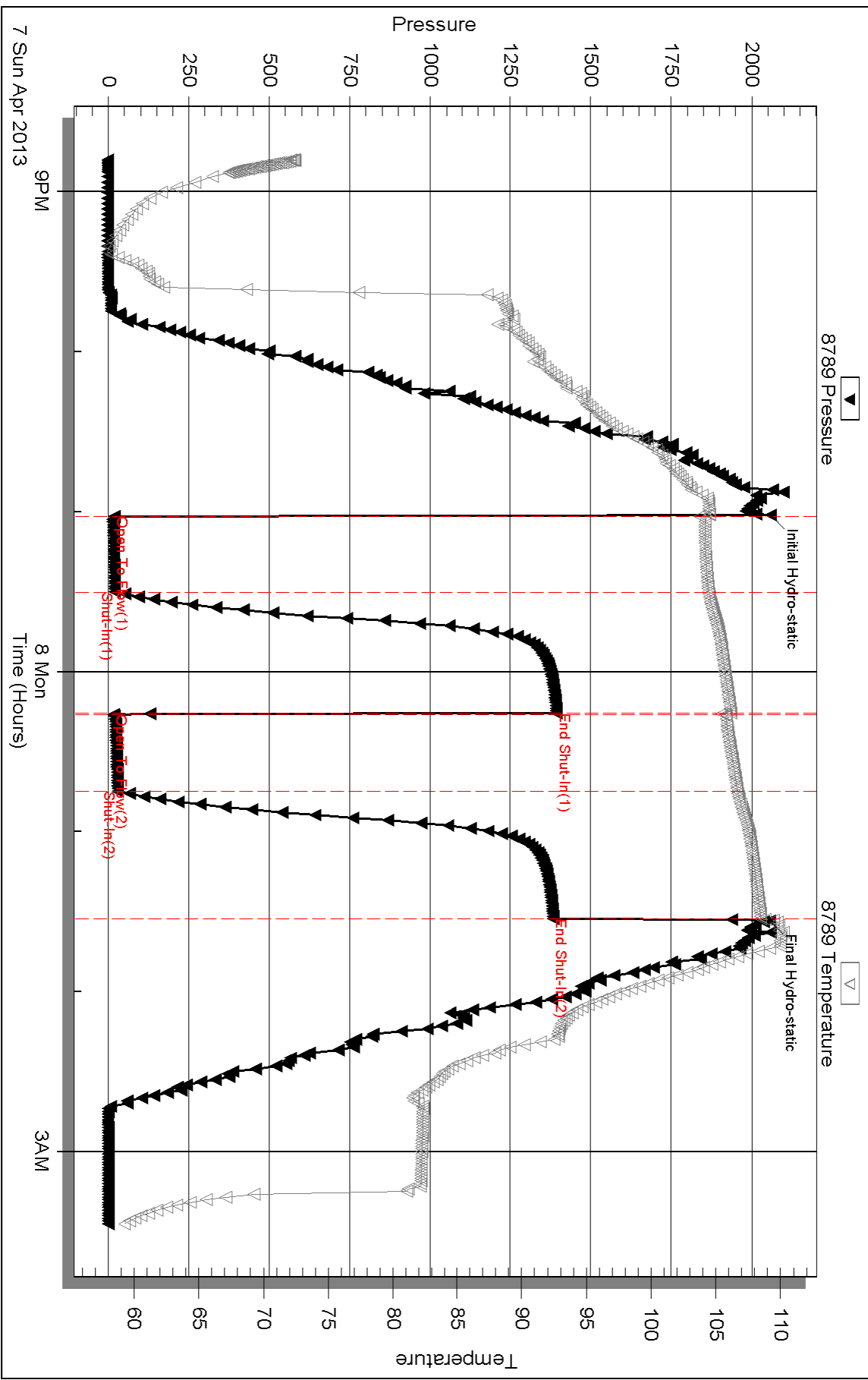
Inside

Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52214

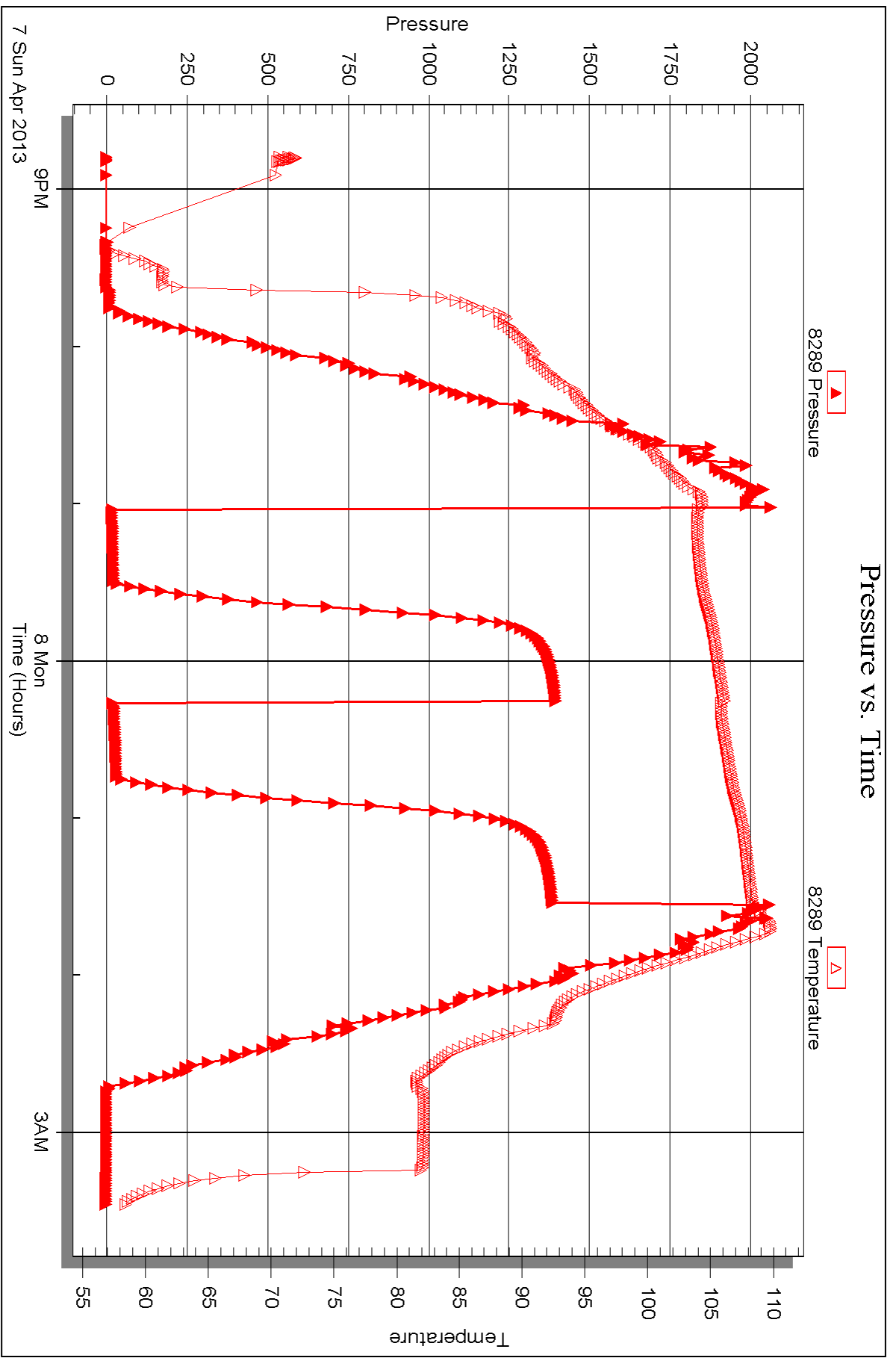
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Serial #: 8289

Outside Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52214

Printed: 2013.04.16 @ 10:07:27



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company, Inc.**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Scott #1-15

15-21s-20w Pawnee,KS

Start Date: 2013.04.08 @ 12:49:05

End Date: 2013.04.08 @ 20:45:20

Job Ticket #: 52215 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 10:02:33



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52215

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.08 @ 12:49:05

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:05

Time Test Ended: 20:45:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4171.00 ft (KB) To 4210.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4210.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 20.85 psig @ 4177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08

End Date:

2013.04.08

Last Calib.:

2013.04.08

Start Time:

12:49:07

End Time:

20:45:20

Time On Btm:

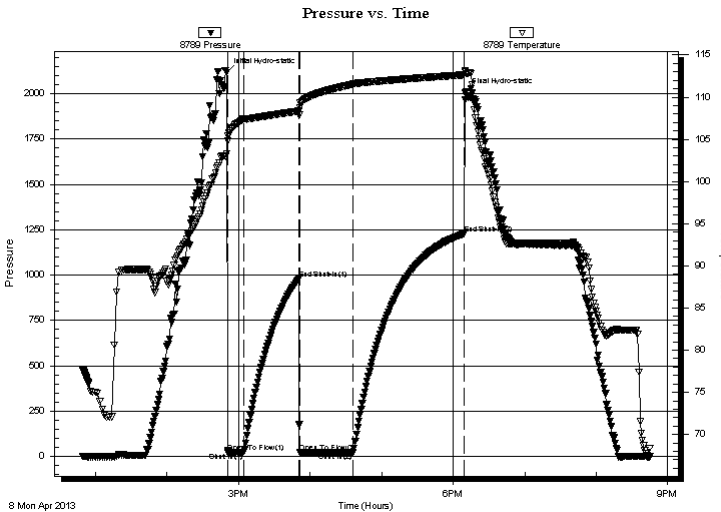
2013.04.08 @ 14:49:50

Time Off Btm:

2013.04.08 @ 18:10:05

TEST COMMENT: IFP-Strong, BOB in 30 sec
ISI-Blow back Built to 3"
FFP-Strong, BOB on open
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2117.01	103.33	Initial Hydro-static
2	21.50	105.38	Open To Flow (1)
15	21.37	107.41	Shut-In (1)
61	979.75	108.35	End Shut-In (1)
62	23.00	108.75	Open To Flow (2)
107	20.85	111.55	Shut-In (2)
200	1227.69	112.66	End Shut-In (2)
201	2007.12	113.18	Final Hydro-static

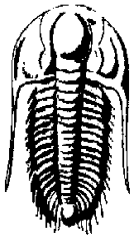
Recovery

Length (ft)	Description	Volume (bbl)
31.00	Drilling Mud	0.16

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52215

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.08 @ 12:49:05

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:51:05

Time Test Ended: 20:45:20

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4171.00 ft (KB) To 4210.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4210.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press @ RunDepth: psig @ 4177.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.08 End Date: 2013.04.08

Last Calib.: 2013.04.08

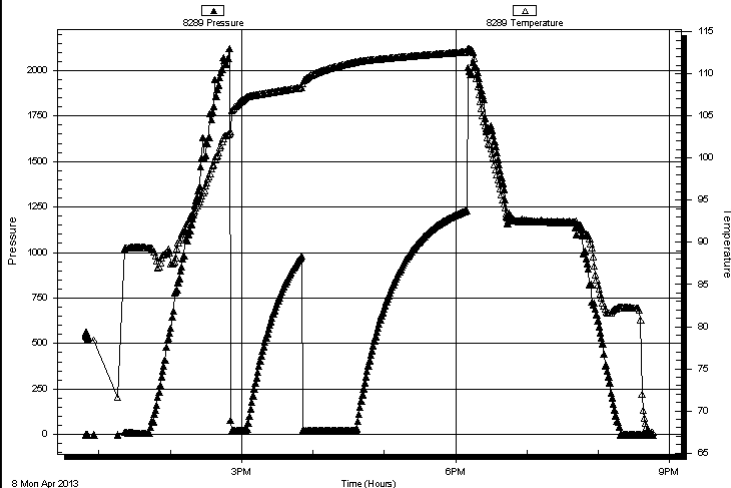
Start Time: 12:48:52 End Time: 20:45:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong,BOB in 30 sec
ISI-Blow back Built to 3"
FFP-Strong,BOB on open
FSI-Dead

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
31.00	Drilling Mud	0.16

* 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 Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52215

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.08 @ 12:49:05

Tool Information

Drill Pipe:	Length: 4133.00 ft	Diameter: 3.80 inches	Volume: 57.98 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: 66000.00 lb
			<u>Total Volume: 58.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4171.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	67.00 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			4144.00	
Shut In Tool	5.00			4149.00	
Hydraulic tool	5.00			4154.00	
Jars	5.00			4159.00	
Safety Joint	2.00			4161.00	
Packer	5.00			4166.00	28.00 Bottom Of Top Packer
Packer	5.00			4171.00	
Stubb	1.00			4172.00	
Perforations	5.00			4177.00	
Recorder	0.00	8789	Inside	4177.00	
Recorder	0.00	8289	Outside	4177.00	
Perforations	30.00			4207.00	
Bullnose	3.00			4210.00	39.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52215

DST#: 2

ATTN: Marc Downing

Test Start: 2013.04.08 @ 12:49:05

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
31.00	Drilling Mud	0.162

Total Length: 31.00 ft Total Volume: 0.162 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8789

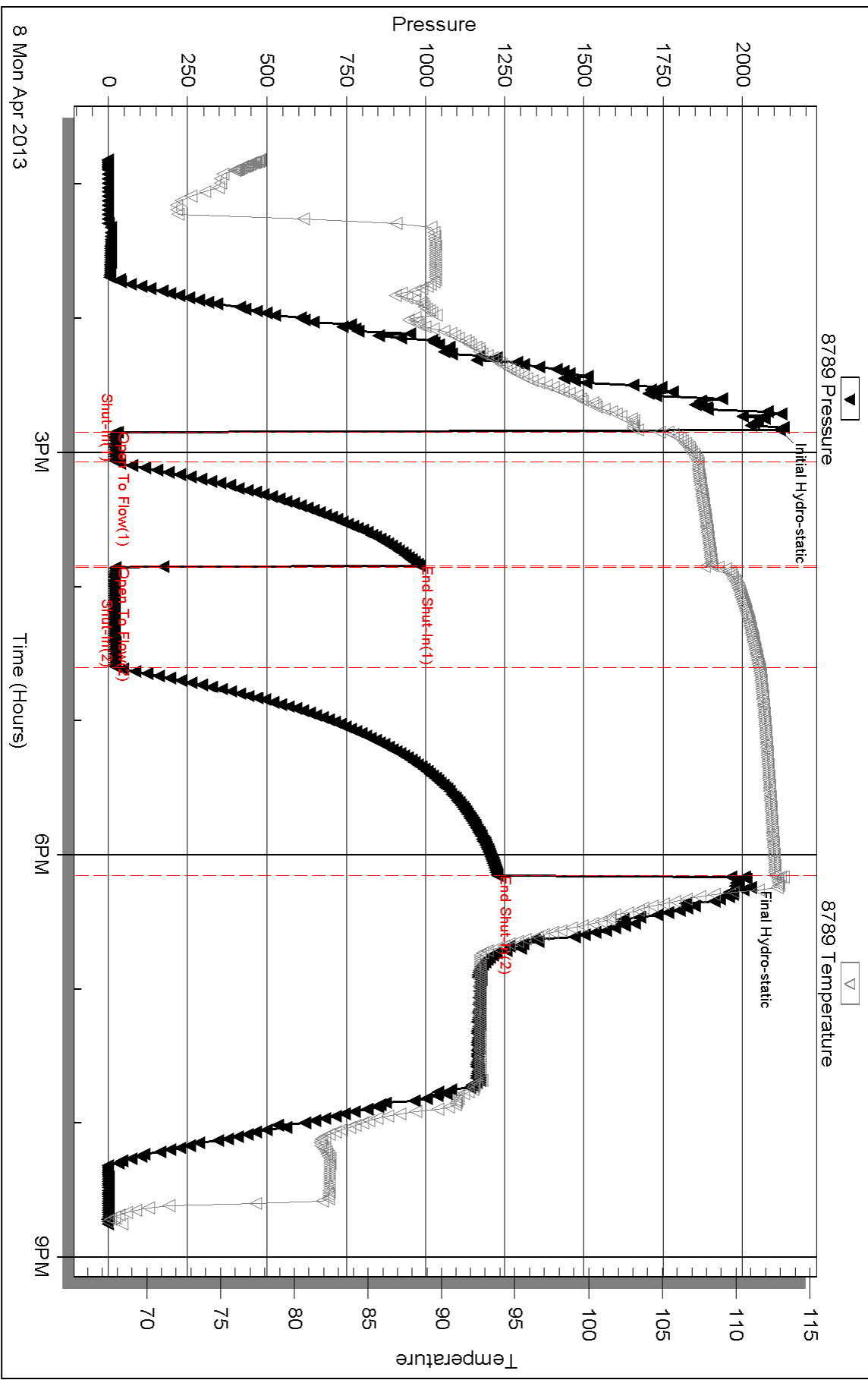
Inside

Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52215

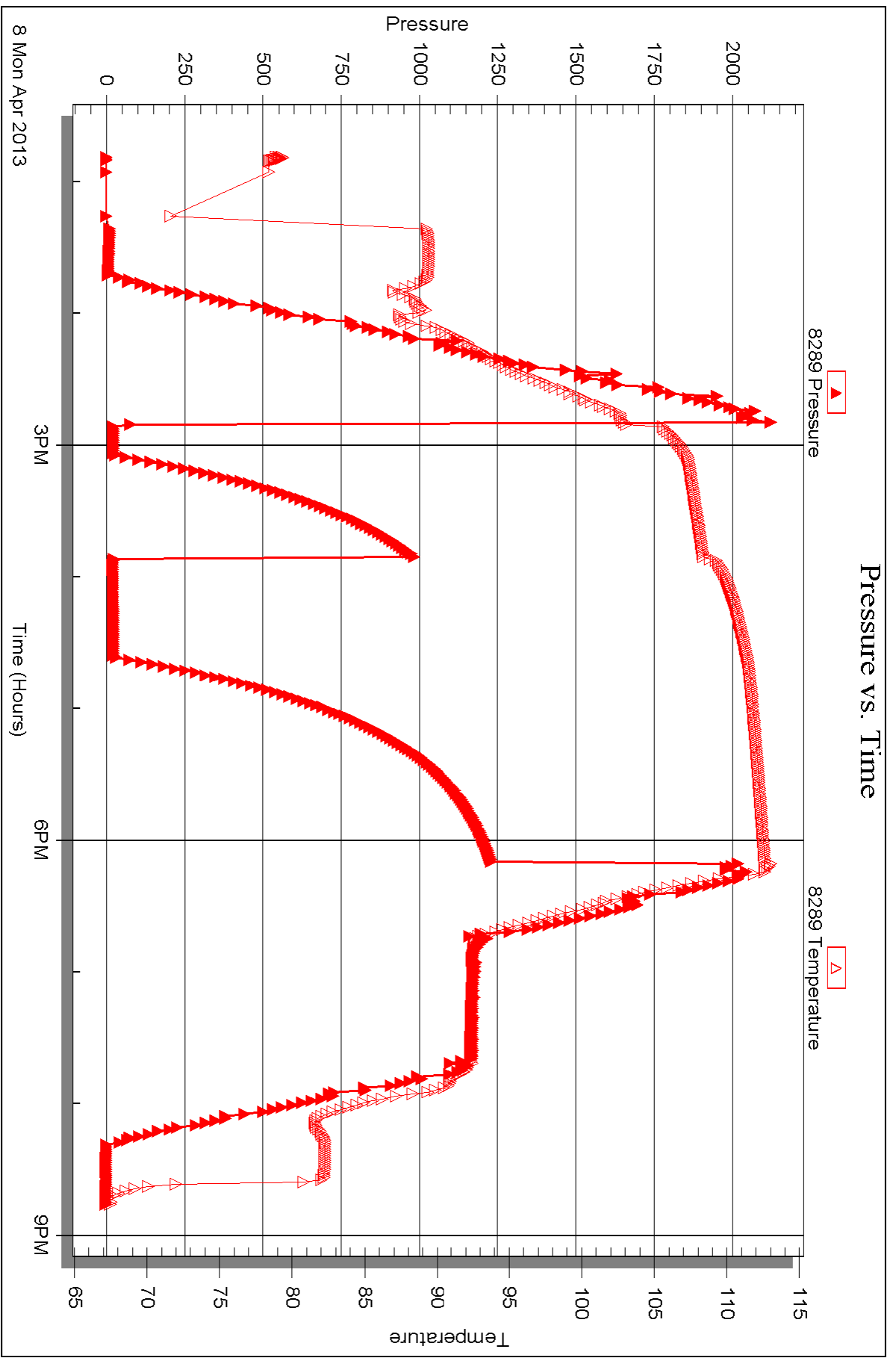
Printed: 2013.04.16 @ 10:02:36

Serial #: 8289

Outside Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52215

Printed: 2013.04.16 @ 10:02:36



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company, Inc.**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Scott #1-15

15-21s-20w Pawnee,KS

Start Date: 2013.04.09 @ 03:02:27

End Date: 2013.04.09 @ 11:10:42

Job Ticket #: 52216 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 10:01:46



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52216

DST#: 3

ATTN: Marc Dow ning

Test Start: 2013.04.09 @ 03:02:27

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:25:12

Time Test Ended: 11:10:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4210.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 57.42 psig @ 4213.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.09

End Date:

2013.04.09

Last Calib.:

2013.04.09

Start Time:

03:02:29

End Time:

11:10:42

Time On Btm:

2013.04.09 @ 05:24:27

Time Off Btm:

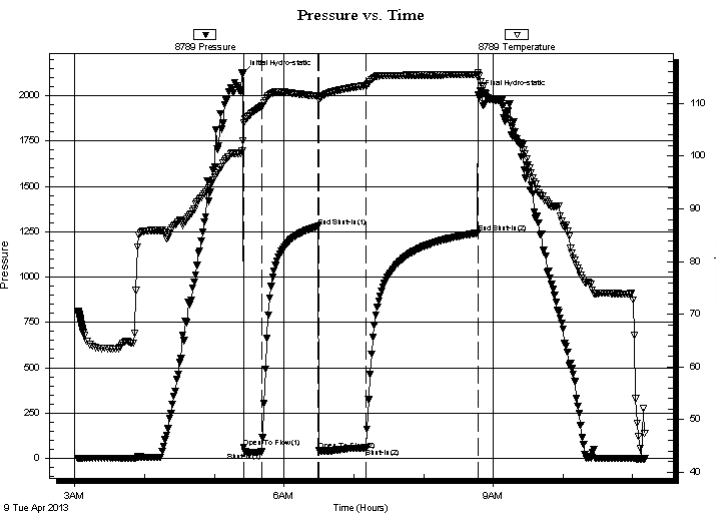
2013.04.09 @ 08:47:12

TEST COMMENT: IFP-Strong, BOB in 1 min.

ISI-Dead

FFP-BOB on open, GTS in 35 min.

FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2118.77	102.84	Initial Hydro-static
1	60.18	106.28	Open To Flow (1)
17	36.36	109.46	Shut-In(1)
65	1279.12	111.43	End Shut-In(1)
66	42.87	110.67	Open To Flow (2)
107	57.42	113.40	Shut-In(2)
203	1242.50	115.53	End Shut-In(2)
203	2003.69	115.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM-20%G-20%O-60%M	1.48
5.00	Free Oil	0.07

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52216

DST#: 3

ATTN: Marc Dow ning

Test Start: 2013.04.09 @ 03:02:27

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:25:12

Time Test Ended: 11:10:42

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4210.00 ft (KB) To 4226.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4226.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press @ RunDepth: psig @ 4213.00 ft (KB)

Start Date: 2013.04.09 End Date: 2013.04.09

Start Time: 03:01:57 End Time: 11:10:55

Capacity: 8000.00 psig

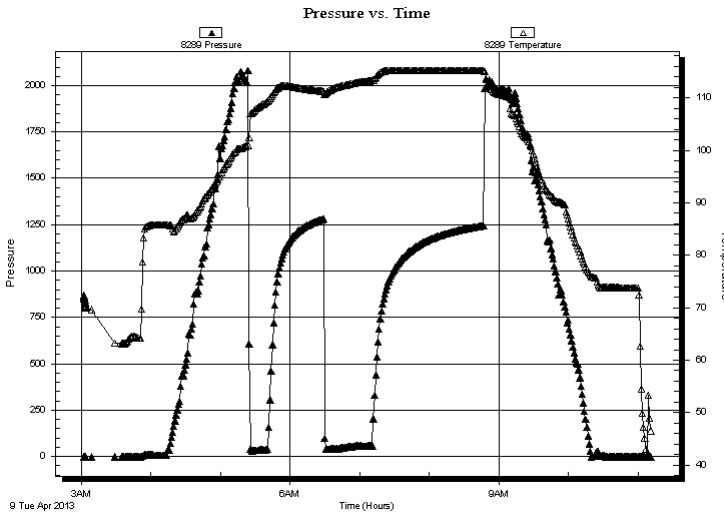
Last Calib.: 2013.04.09

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Strong, BOB in 1 min.
ISI-Dead
FFP-BOB on open, GTS in 35 min.
FSI-Dead

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
125.00	GOCM-20%G-20%O-60%M	1.48
5.00	Free Oil	0.07

* 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 Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52216

DST#: 3

ATTN: Marc Downing

Test Start: 2013.04.09 @ 03:02:27

Tool Information

Drill Pipe:	Length: 4164.00 ft	Diameter: 3.80 inches	Volume: 58.41 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: 65000.00 lb
			<u>Total Volume: 58.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4210.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	44.00 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			4183.00	
Shut In Tool	5.00			4188.00	
Hydraulic tool	5.00			4193.00	
Jars	5.00			4198.00	
Safety Joint	2.00			4200.00	
Packer	5.00			4205.00	28.00 Bottom Of Top Packer
Packer	5.00			4210.00	
Stubb	1.00			4211.00	
Perforations	2.00			4213.00	
Recorder	0.00	8789	Inside	4213.00	
Recorder	0.00	8289	Outside	4213.00	
Perforations	10.00			4223.00	
Bullnose	3.00			4226.00	16.00 Bottom Packers & Anchor

Total Tool Length: 44.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52216

DST#: 3

ATTN: Marc Downing

Test Start: 2013.04.09 @ 03:02:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
125.00	GOCM-20%G-20%O-60%M	1.480
5.00	Free Oil	0.070

Total Length: 130.00 ft

Total Volume: 1.550 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

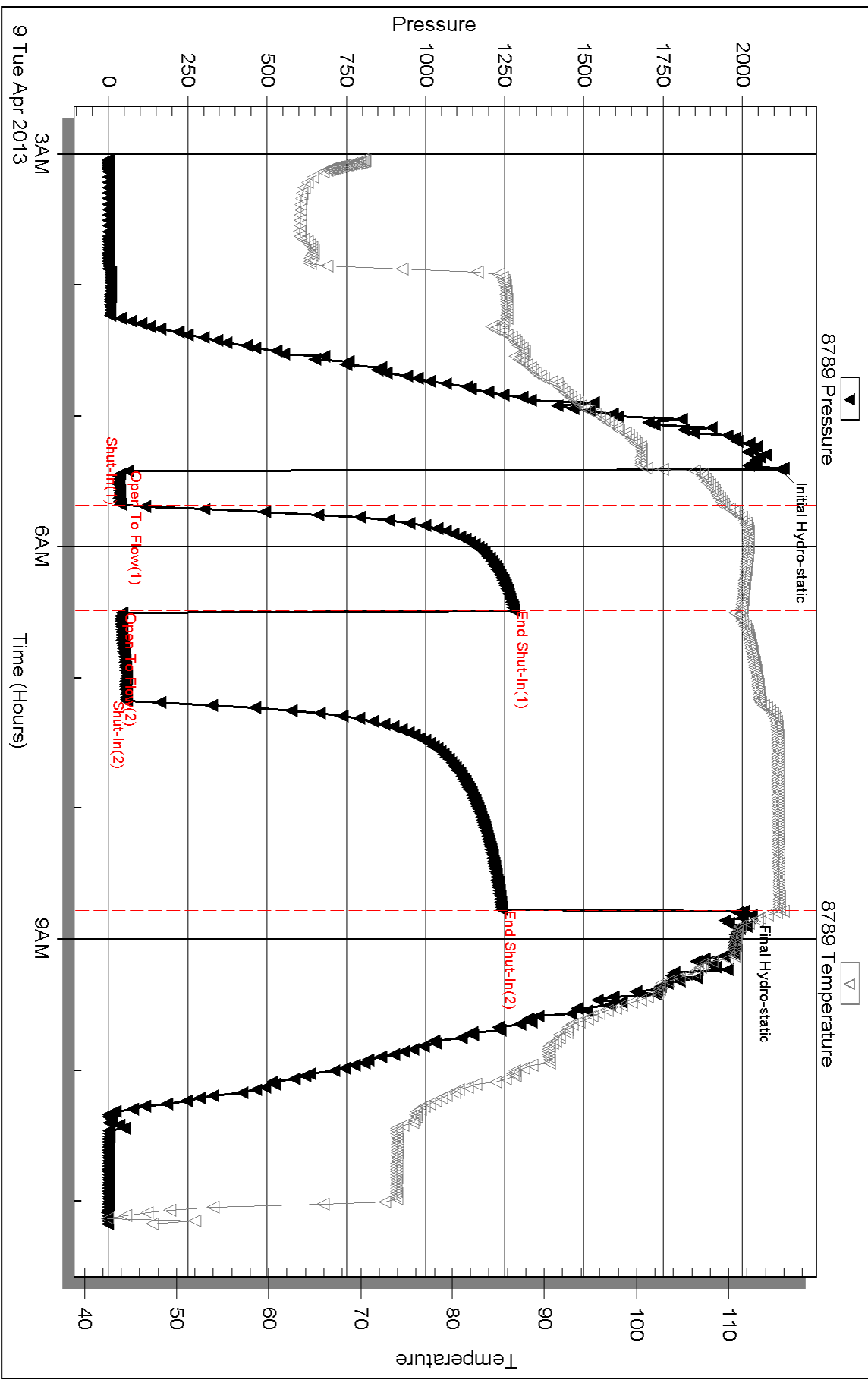
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time

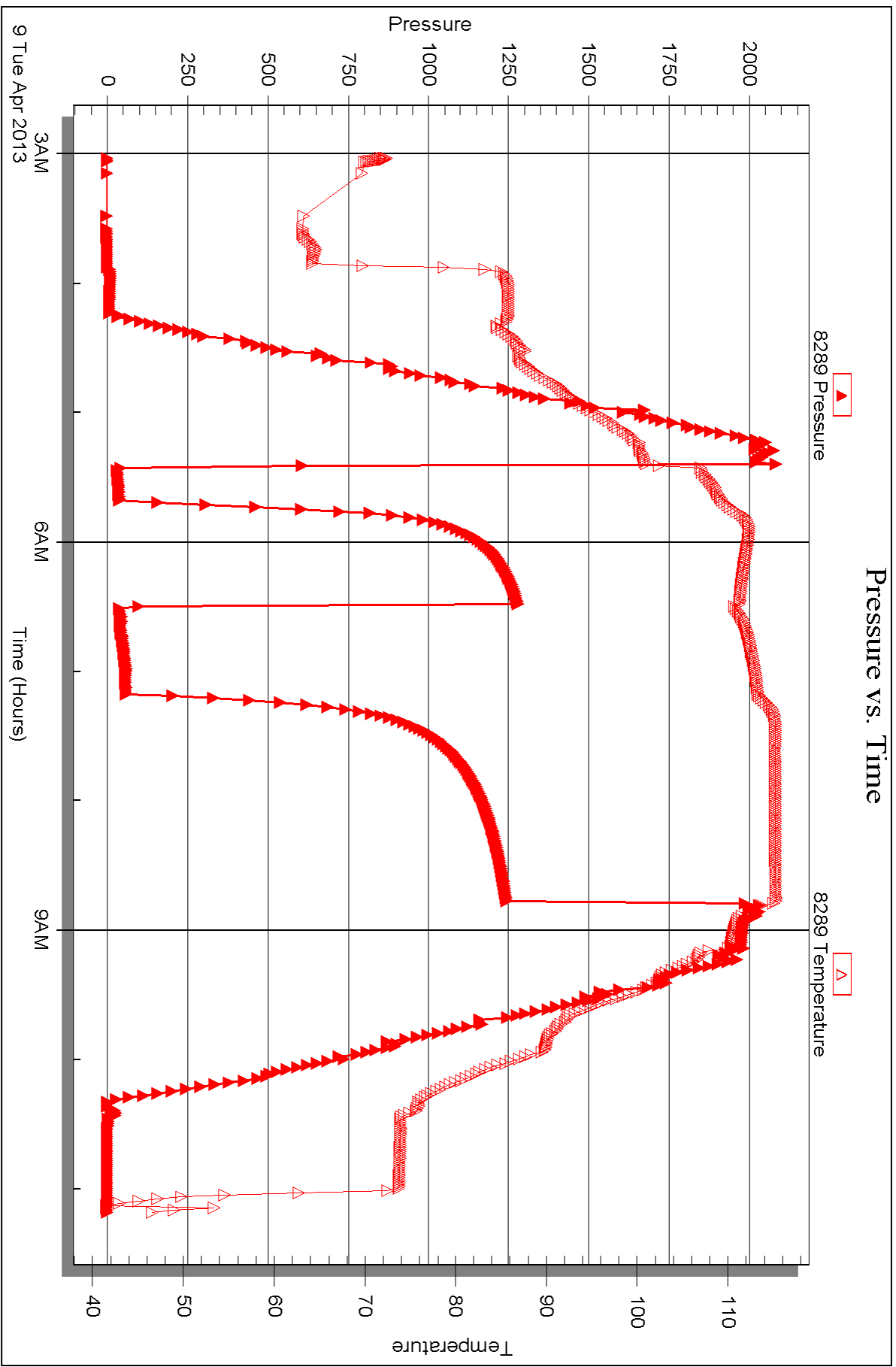


Serial #: 8289

Outside Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 3





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company, Inc.**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Scott #1-15

15-21s-20w Pawnee,KS

Start Date: 2013.04.09 @ 17:47:49

End Date: 2013.04.10 @ 01:51:04

Job Ticket #: 52217 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 10:01:14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52217

DST#: 4

ATTN: Marc Dow ning

Test Start: 2013.04.09 @ 17:47:49

GENERAL INFORMATION:

Formation: **Mississippi**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:24:49
 Time Test Ended: 01:51:04
 Interval: **4220.00 ft (KB) To 4232.00 ft (KB) (TVD)**
 Total Depth: 4232.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason MxcLemore
 Unit No: 54
 Reference Elevations: 2099.00 ft (KB)
 2091.00 ft (CF)
 KB to GR/CF: 8.00 ft

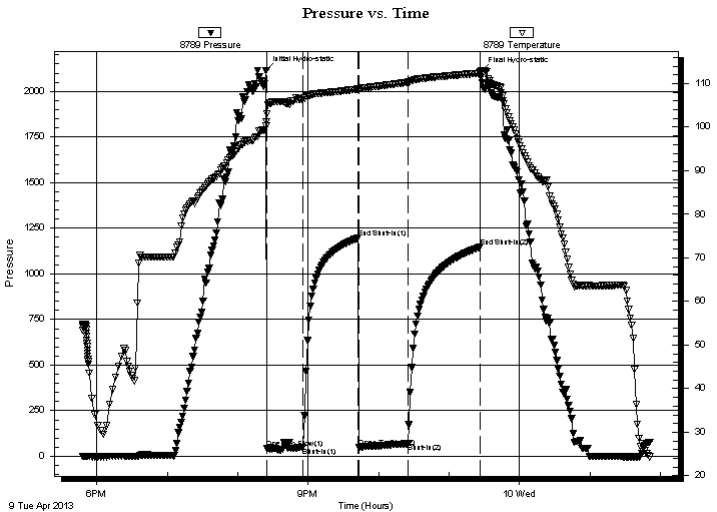
Serial #: 8789

Inside

Press @ Run Depth: 69.41 psig @ 4224.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.04.09 End Date: 2013.04.10 Last Calib.: 2013.04.10
 Start Time: 17:47:51 End Time: 01:51:04 Time On Btm: 2013.04.09 @ 20:24:04
 Time Off Btm: 2013.04.09 @ 23:27:04

TEST COMMENT: IFP-Strong, BOB in 30 Seconds
 ISI-Blow back Built to 2-3/4"
 FFP-BOB on Open, Gas To Surface in 30 Min.
 FSI-Blow back Built to 1-1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2113.17	100.26	Initial Hydro-static
1	43.68	102.99	Open To Flow (1)
32	49.79	106.38	Shut-In(1)
79	1196.18	108.75	End Shut-In(1)
79	47.63	108.50	Open To Flow (2)
121	69.41	110.29	Shut-In(2)
183	1146.02	112.41	End Shut-In(2)
183	2107.47	112.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GOCM-20%G-20%O-60%M	1.41
30.00	Free Oil	0.42

* 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 Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52217

DST#: 4

ATTN: Marc Downing

Test Start: 2013.04.09 @ 17:47:49

Tool Information

Drill Pipe:	Length: 4194.00 ft	Diameter: 3.80 inches	Volume: 58.83 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: 65000.00 lb
			<u>Total Volume: 58.98 bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	4220.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			4193.00	
Shut In Tool	5.00			4198.00	
Hydraulic tool	5.00			4203.00	
Jars	5.00			4208.00	
Safety Joint	2.00			4210.00	
Packer	5.00			4215.00	28.00 Bottom Of Top Packer
Packer	5.00			4220.00	
Stubb	1.00			4221.00	
Perforations	3.00			4224.00	
Recorder	0.00	8789	Inside	4224.00	
Recorder	0.00	8289	Outside	4224.00	
Perforations	5.00			4229.00	
Bullnose	3.00			4232.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52217

DST#: 4

ATTN: Marc Downing

Test Start: 2013.04.09 @ 17:47:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	GOCM-20%G-20%O-60%M	1.410
30.00	Free Oil	0.421

Total Length: 150.00 ft

Total Volume: 1.831 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

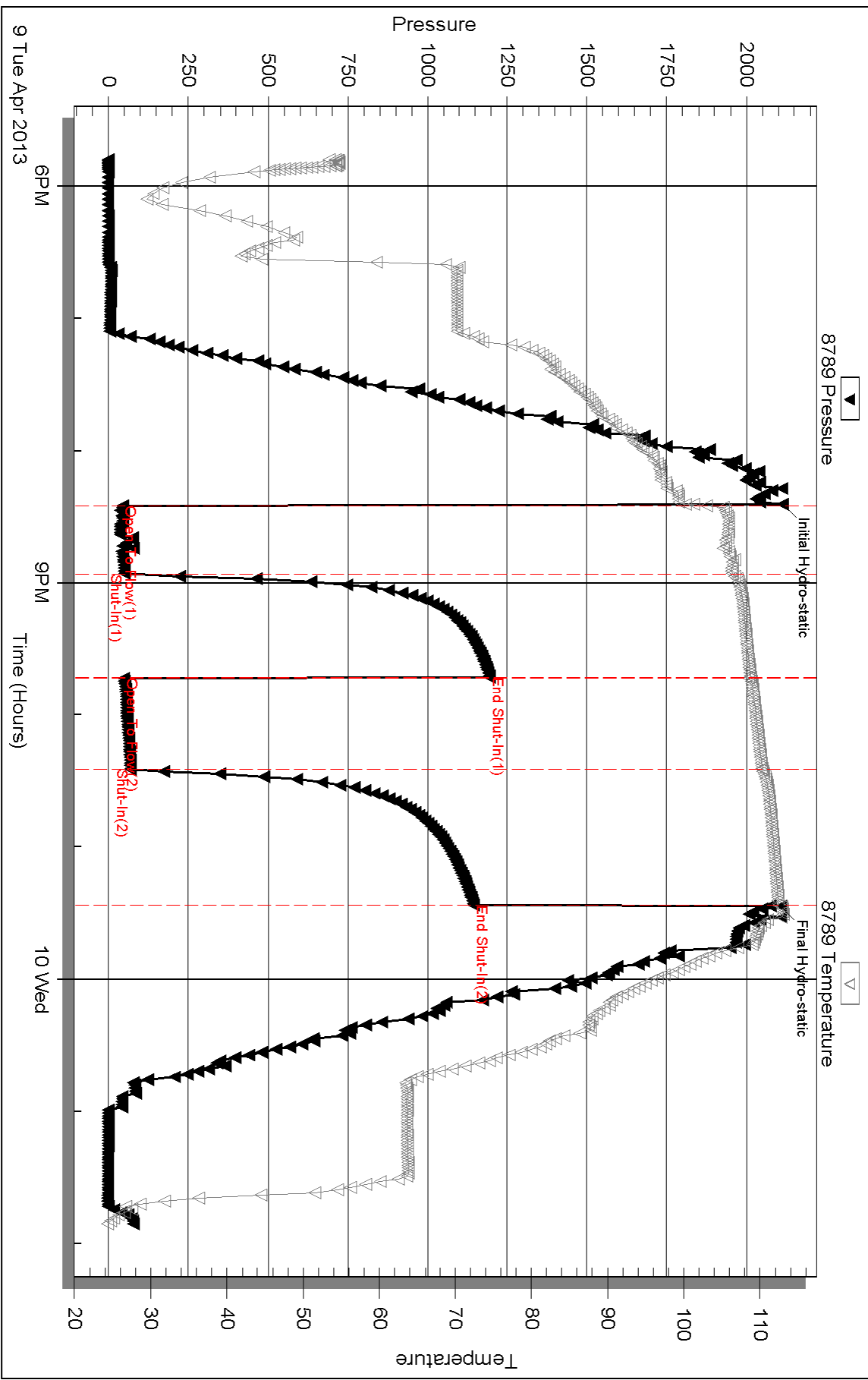
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Company, Inc.**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Scott #1-15

15-21s-20w Pawnee,KS

Start Date: 2013.04.10 @ 08:16:49

End Date: 2013.04.10 @ 17:30:19

Job Ticket #: 52218 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.04.16 @ 10:00:34



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52218

DST#: 5

ATTN: Marc Downing

Test Start: 2013.04.10 @ 08:16:49

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:43:19

Time Test Ended: 17:30:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4231.00 ft (KB) To 4243.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4243.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press @ Run Depth: 75.04 psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10

End Date:

2013.04.10

Last Calib.:

2013.04.10

Start Time: 08:16:51

End Time:

17:30:19

Time On Btm:

2013.04.10 @ 11:04:34

Time Off Btm:

2013.04.10 @ 15:14:34

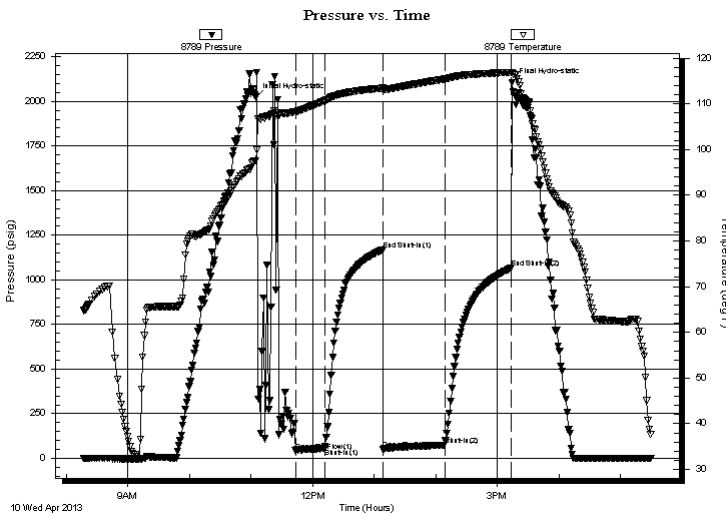
TEST COMMENT: IFP-Slid Tool, Plugging Action, Flush Tool, BOB in 30 min. Still Some Plugging Action

ISI-Blow back Built to 1/2", Died in 30 min.

FFP-BOB in 3 min. Still have Plugging Action

FSI-Surface Blow back For 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2023.83	97.57	Initial Hydro-static
39	41.97	108.29	Open To Flow (1)
68	55.06	110.66	Shut-In(1)
124	1168.95	113.44	End Shut-In(1)
125	52.29	113.08	Open To Flow (2)
185	75.04	115.43	Shut-In(2)
249	1067.75	116.89	End Shut-In(2)
250	2105.53	116.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM-5%O-95%M	1.41
5.00	Free Oil	0.07

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52218

DST#: 5

ATTN: Marc Dow ning

Test Start: 2013.04.10 @ 08:16:49

GENERAL INFORMATION:

Formation: **Mississippi**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:43:19

Time Test Ended: 17:30:19

Test Type: Conventional Bottom Hole (Reset)

Tester: Jason McLemore

Unit No: 54

Interval: 4231.00 ft (KB) To 4243.00 ft (KB) (TVD)

Reference Elevations: 2099.00 ft (KB)

Total Depth: 4243.00 ft (KB) (TVD)

2091.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press @ Run Depth: psig @ 4235.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.04.10

End Date:

2013.04.10

Last Calib.:

2013.04.10

Start Time: 08:16:21

End Time:

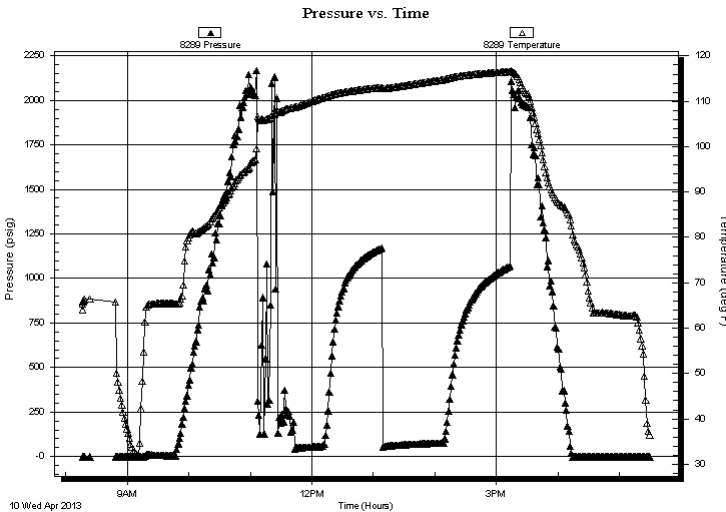
17:30:34

Time On Btm:

Time Off Btm:

TEST COMMENT: IFP-Slid Tool, Plugging Action, Flush Tool, BOB in 30 min. Still Some Plugging Action
ISI-Blow back Built to 1/2", Died in 30 min.
FFP-BOB in 3 min. Still have Plugging Action
FSI-Surface Blow back For 15 min.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
120.00	SOCM-5%O-95%M	1.41
5.00	Free Oil	0.07

* 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 Company, Inc.

15-21s-20w Pawnee, KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52218

DST#: 5

ATTN: Marc Downing

Test Start: 2013.04.10 @ 08:16:49

Tool Information

Drill Pipe:	Length: 4194.00 ft	Diameter: 3.80 inches	Volume: 58.83 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: 65000.00 lb
			<u>Total Volume: 58.98 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4231.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	40.00 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			4204.00	
Shut In Tool	5.00			4209.00	
Hydraulic tool	5.00			4214.00	
Jars	5.00			4219.00	
Safety Joint	2.00			4221.00	
Packer	5.00			4226.00	28.00 Bottom Of Top Packer
Packer	5.00			4231.00	
Stubb	1.00			4232.00	
Perforations	3.00			4235.00	
Recorder	0.00	8789	Inside	4235.00	
Recorder	0.00	8289	Outside	4235.00	
Perforations	5.00			4240.00	
Bullnose	3.00			4243.00	12.00 Bottom Packers & Anchor

Total Tool Length: 40.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Company, Inc.

15-21s-20w Pawnee,KS

PO Box 1019
Hays, KS 67601

Scott #1-15

Job Ticket: 52218

DST#: 5

ATTN: Marc Downing

Test Start: 2013.04.10 @ 08:16:49

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
120.00	SOCM-5%O-95%M	1.410
5.00	Free Oil	0.070

Total Length: 125.00 ft

Total Volume: 1.480 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

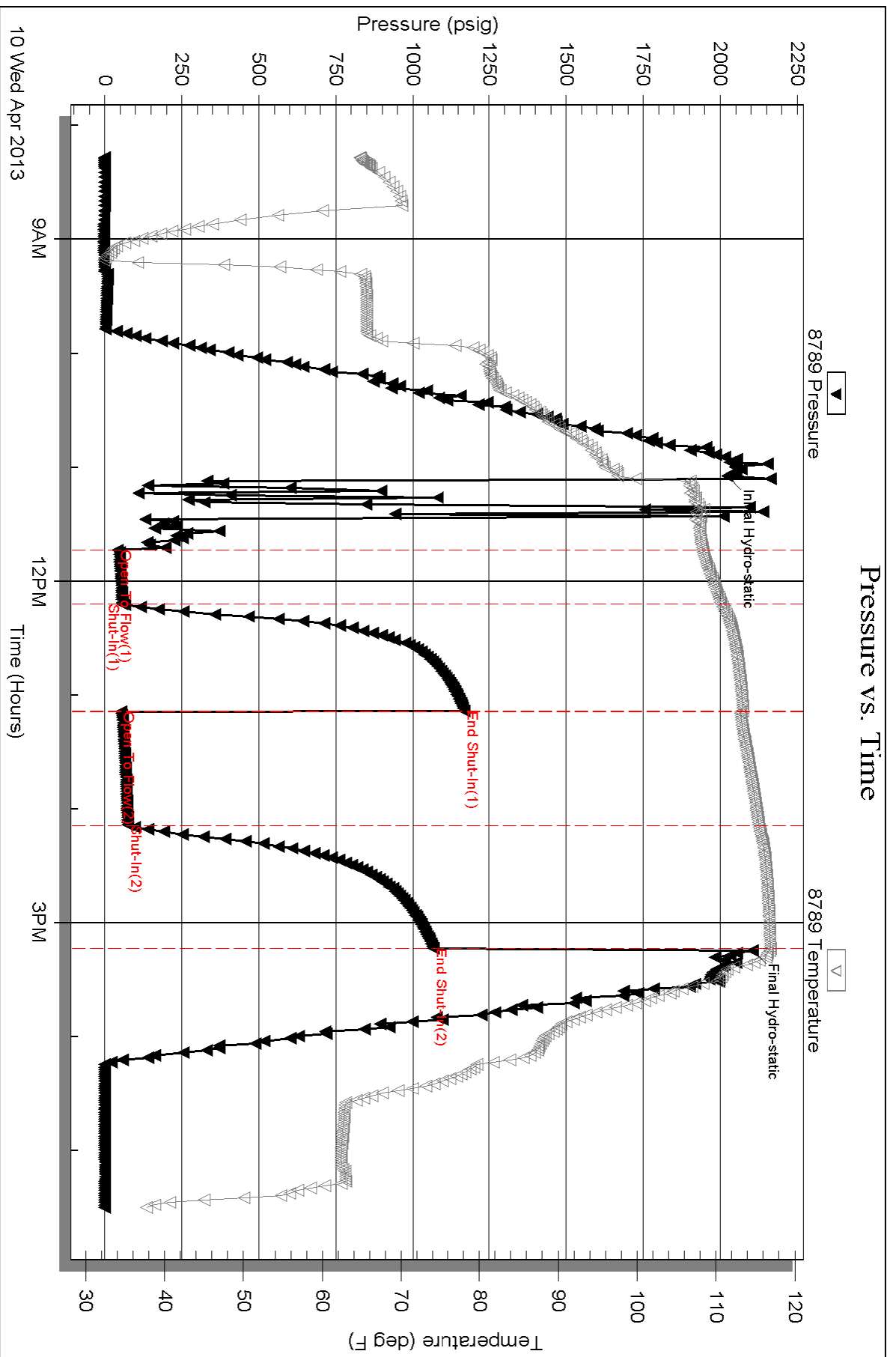
Serial #: 8789

Inside

Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 5

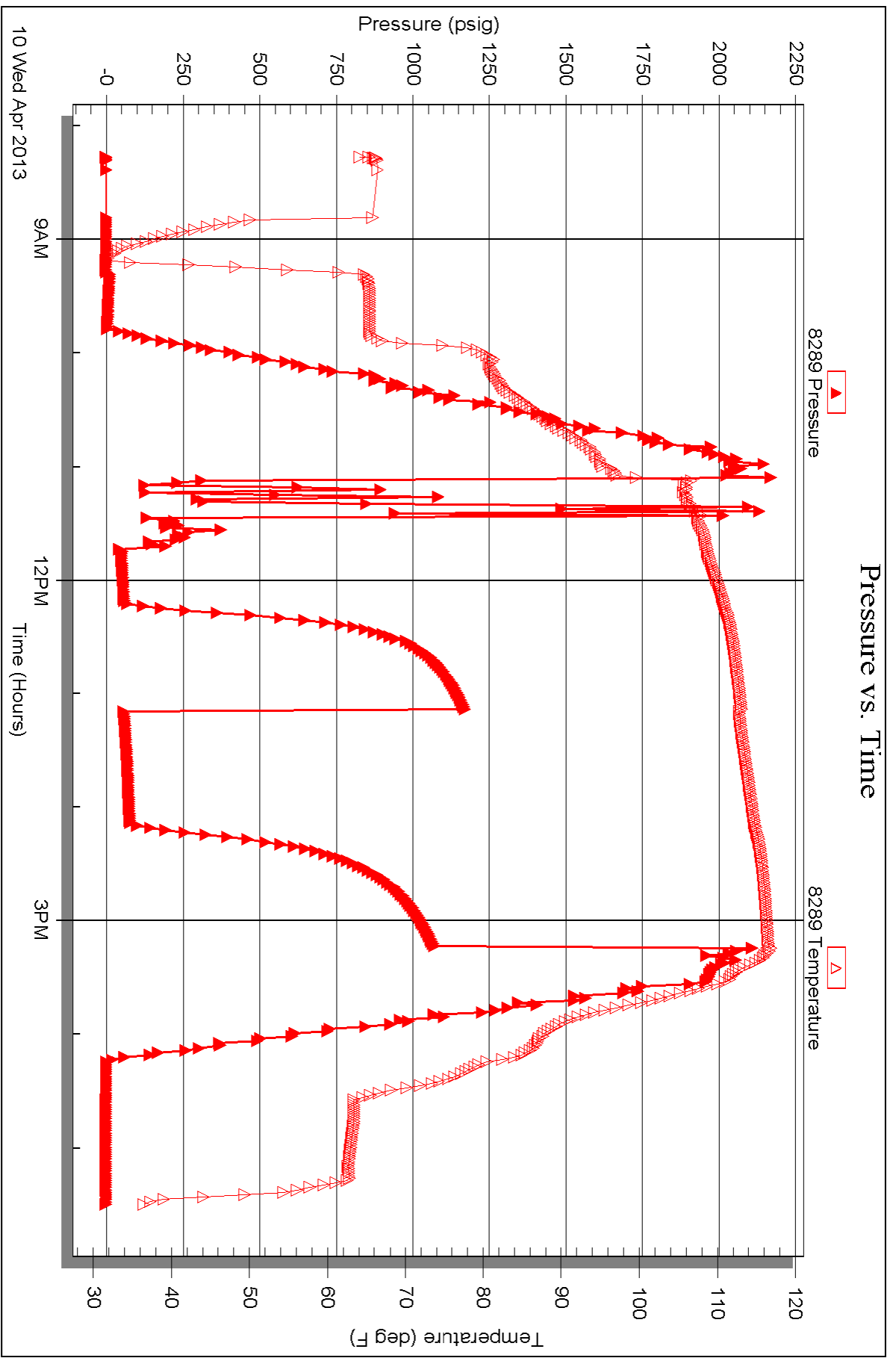


Serial #: 8289

Outside Downing Nelson Oil Company, Inc.

Scott #1-15

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52214

Well Name & No. Scott #1-15 Test No. 1 Date 4-7-13
 Company Downing Nelson Oil Company, Inc. Elevation 2099 KB 2091 GL
 Address PO Box 1019, Hays, Ks. 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 15 Twp. 21 S Rge. 20 W Co. Pawnee State Ks

Interval Tested 4128-4158 Zone Tested Cherokee Sand
 Anchor Length 30 Drill Pipe Run 4102 Mud Wt. 9.0
 Top Packer Depth 4123 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 4128 Wt. Pipe Run 0 WL 9.2
 Total Depth 4158 Chlorides 4500 ppm System LCM 1#
 Blow Description FFP - Good Blow BOB in 7 min.
ISI - Dead
FFP - BOB on Open
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>Free Oil</u>				
<u>30</u>	<u>Hocen</u>		<u>40</u>		<u>60</u>
	<u>840' GIP</u>				

Rec Total 50 BHT _____ Gravity 36 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2059</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>19:26</u>
(B) First Initial Flow <u>18</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>20:46</u>
(C) First Final Flow <u>20</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>23:02</u>
(D) Initial Shut-In <u>1393</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1:32</u>
(E) Second Initial Flow <u>15</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>3:28</u>
(F) Second Final Flow <u>29</u>	<input checked="" type="checkbox"/> Mileage <u>116 FT</u> 179.80	Comments _____
(G) Final Shut-In <u>1383</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2056</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1754.80</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative Jara McJenna Thank you

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. 52215

Well Name & No. Scott # 1-15 Test No. 2 Date 4-8-13
 Company Downing Nelson Oil Company, Inc Elevation 2099 KB 2091 GL
 Address PO Box 1019, Hays, KS. 67601
 Co. Rep / Geo. Marc Downing Rig Discovery # 4
 Location: Sec. 15 Twp. 21s Rge. 20w Co. Pawnee State KS

Interval Tested 4171-4210 Zone Tested Mississippi
 Anchor Length 39' Drill Pipe Run _____ Mud Wt. 8.9
 Top Packer Depth 4166 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 4171 Wt. Pipe Run 0 WL 9.2
 Total Depth 4210 Chlorides 6500 ppm System LCM 1/2 #
 Blow Description IFF- Strong, BOB in 30 sec.
ISI- Blowback Built to 3"
FFP- BOB on Open, Gas to surface at shut In.
FSI- Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>31</u>	<u>Drilling Mud</u>				
____	____				
____	____				
____	____				
____	____				

Rec Total 31 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2117</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>12:28</u>
(B) First Initial Flow <u>22</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>12:47</u>
(C) First Final Flow <u>21</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>14:49</u>
(D) Initial Shut-In <u>680</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>18:04</u>
(E) Second Initial Flow <u>23</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>20:45</u>
(F) Second Final Flow <u>21</u>	<input checked="" type="checkbox"/> Mileage <u>179.80</u>	Comments _____
(G) Final Shut-In <u>1228</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2007</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>NO 45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1754.80</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative Jason McFarmer Thank you

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52216

Well Name & No. Scott # 1-15 Test No. 3 Date 4-9-13
 Company Downing Nelson Oil Company, Inc. Elevation 2099 KB 2091 GL
 Address PO Box 1019, Hays, Ks. 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 15 Twp. 21s Rge. 20w Co. Pawnee State Ks

Interval Tested 4210 - 4226 Zone Tested Mississippi
 Anchor Length 16 Drill Pipe Run 4164 Mud Wt. 8.9
 Top Packer Depth 4205 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4210 Wt. Pipe Run 0 WL 9.2
 Total Depth 4226 Chlorides 6500 ppm System LCM 1/2"
 Blow Description IFP - Strong BOB in 1 min
ISI - Dead
FFA BOB on Open, Gas to Surface in 35 min.
FSI - Dead

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>				
<u>125</u>	<u>GOCM</u>	<u>20</u>	<u>20</u>	<u>60</u>	

Rec Total 130 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2119 Test 1250 T-On Location 2:37
 (B) First Initial Flow 60 Jars 250 T-Started 3:00
 (C) First Final Flow 36 Safety Joint 75 T-Open 5:24
 (D) Initial Shut-In 1279 Circ Sub _____ T-Pulled 8:39
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 11:10
 (F) Second Final Flow 57 Mileage 179.80 Comments _____
 (G) Final Shut-In 1243 Sampler _____
 (H) Final Hydrostatic 2004 Straddle _____
 Shale Packer _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 15
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 90

Sub Total 1754.80

Sub Total 1754.80

Approved By _____ Our Representative Jason McLean Thank you

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52217

Well Name & No. Scott #1-15 Test No. 4 Date 4-9-13
 Company Downing Nelson Oil Company, Inc. Elevation 2099 KB 2091 GL
 Address PO Box 1019, Hays, KS. 67601
 Co. Rep / Geo. Al Downing Rig Discovery #4
 Location: Sec. 15 Twp. 21s Rge. 20w Co. Pawnee State Ks

Interval Tested 4220-4232 Zone Tested Mississippi
 Anchor Length 12 Drill Pipe Run 4194 Mud Wt. 9.3
 Top Packer Depth 4215 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 4220 Wt. Pipe Run 0 WL 9.2
 Total Depth 4232 Chlorides 6,000 ppm System LCM 2nd
 Blow Description IFP - Strong, BOB in 30 seconds
ISI - Blowback Built to 2 3/4"
FIP - BOB on open, Gas to surface in 30 min.
FSI - Blowback Built to 1 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>Free Oil</u>				
<u>120</u>	<u>60cm</u>	<u>20</u>	<u>20</u>		<u>60</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

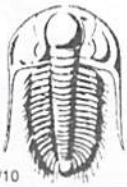
Rec Total 150 BHT _____ Gravity 36 API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2113</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>17:36</u>
(B) First Initial Flow <u>44</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>17:45</u>
(C) First Final Flow <u>50</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>20:24</u>
(D) Initial Shut-In <u>1196</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>23:24</u>
(E) Second Initial Flow <u>48</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1:50</u>
(F) Second Final Flow <u>69</u>	<input checked="" type="checkbox"/> Mileage <u>179.80</u>	Comments _____
(G) Final Shut-In <u>1146</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> Ruined Shale Packer _____
(H) Final Hydrostatic <u>2107</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Total <u>1754.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Day Standby _____	MP/DST Disc't _____
	<input type="checkbox"/> Accessibility _____	
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative Jason McJannet

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Thank You



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52218

Well Name & No. Scott # 1-15 Test No. 5 Date 4-10-13
 Company Downing Nelson Oil Company, Inc. Elevation 2099 KB 2091 GL
 Address PO Box 1019, Hays, Ks. 67601
 Co. Rep / Geo. Al Downing Rig Discovery #4
 Location: Sec. 15 Twp. 21s Rge. 20w Co. Pawnee State KS

Interval Tested 4231-4243 Zone Tested Mississippi
 Anchor Length 12' Drill Pipe Run 4194 Mud Wt. 9.3
 Top Packer Depth 4226 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 4231 Wt. Pipe Run 0 WL 9.2
 Total Depth 4243 Chlorides 6,000 ppm System LCM 2#
 Blow Description IFF- Slid Tool, Plugging Action, Flush Tool, BOB in 30 min.
ISI- Blowback Built to 1/2", Died in 30 min.
FFP- BOB in 3 min. some Plugging Action
FST- Surface Blowback For 15 min.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Free Oil</u>				
<u>120</u>	<u>SOCM</u>		<u>5</u>		<u>95</u>
	<u>(Bottom Collar Full of Sand)</u>				

Rec Total 125 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2024</u>	<input checked="" type="checkbox"/> Test <u>1250</u>	T-On Location <u>8:05</u>
(B) First Initial Flow <u>42</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>8:14</u>
(C) First Final Flow <u>55</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>11:05</u>
(D) Initial Shut-In <u>1169</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:05</u>
(E) Second Initial Flow <u>52</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:28</u>
(F) Second Final Flow <u>75</u>	<input checked="" type="checkbox"/> Mileage <u>179.80</u>	Comments _____
(G) Final Shut-In <u>1068</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>2106</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>60</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>60</u>	<input type="checkbox"/> Day Standby _____	Total <u>1754.80</u>
Final Shut-In <u>60</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1754.80</u>	

Approved By _____ Our Representative Jason M. Lomon *Thank you*

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COMPANY: Downing-Nelson Oil Co., Inc.
 WELL: Scott #1-15
 FIELD: Wildcat

LOCATION: T15S, R1E, E15E, Sec 20A
 COUNTY: Pawnee
 STATE: Kansas

OPERATOR: DINOI
 CONTRACTOR: Discovery Drilling, Inc. #4
 COMM: 4-01-13
 Casing Record: 8 5/8" - 19 1/2" PROD 6 1/2" - 4240'

FORMATION TOPS AND STRUCTURAL POSITION	SAMPLE TOP	ELECTRICAL LOG DURATION	SUB-SEA POSITION	STRUCTURAL POSITION
Top Anhydrite base Anhydrite	1229	1285	+880	+19
Heersner	1252	1250	+880	+17
Heersner	3582	3580	-1524	+29
Leaning shale	3587	3608	-1524	+30
Fort Scott	3975	3975	-1762	+31
Overlake sand	4125	4125	-2022	+36
Overlake sand	4145	4145	-2038	+31
Overlake sand	4170	4170	-2044	+34
MISS	4200	4200	-2098	+30

REFERENCE WELL FOR STRUCTURE: Schreiner Johnson
 Recorder #1 SE-SE-SE Sec 10-21s-20A

DRILL STEM TESTS

No.	Interval	SP/Time	IS/Time	FP/Time	SS/Time	IR-SP	RECOVER

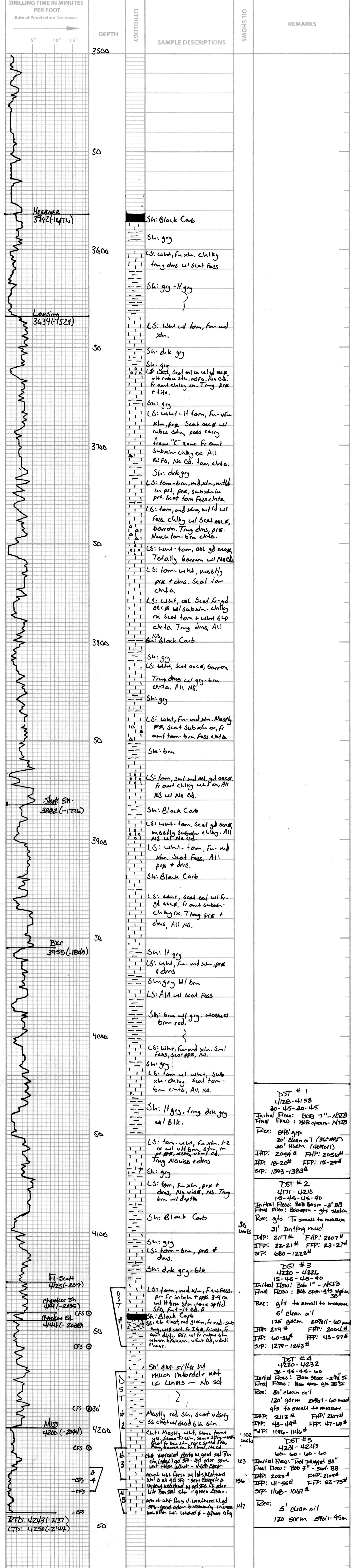
REMARKS AND RECOMMENDATIONS
 IF WAS DECIDED TO RUN 6 1/2 INCH AND
 produce the MISS & Overlake sand

FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRICAL LOG DURATION	SUB-SEA POSITION	STRUCTURAL POSITION
Top Anhydrite base Anhydrite	1229	1285	+880	+19
Heersner	1252	1250	+880	+17
Heersner	3582	3580	-1524	+29
Leaning shale	3587	3608	-1524	+30
Fort Scott	3975	3975	-1762	+31
Overlake sand	4125	4125	-2022	+36
Overlake sand	4145	4145	-2038	+31
Overlake sand	4170	4170	-2044	+34
MISS	4200	4200	-2098	+30

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Ool.Lime	Chert	Dolomite



Marc Downing