



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1189875
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

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

1189875

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

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

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR: _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Tyler Fabrizio 1-20
Doc ID	1189875

Tops

Name	Top	Datum
Top Anhydrite	1823'	+592
Base Anhydrite	1865'	+550
Topeka	3418'	-1003
Heebner	3636'	-1221
Toronto	3654'	-1239
LKC	3670'	-1255
BKC	3908'	-1493
Marmaton	4002'	-1587
Arbuckle	4118'	-1703

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. 7285

Date	Sec.	Twp.	Range	County	State	On Location	Finish
8-8-13	20	12	22	Trego	KS		7:30PM
				Location Ogallah 2W SInto			

Lease	Well No.	Owner	
Tyler Fabrizio	1-20	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	Type Job	Charge To	
Discovery #4	Surface	Downing Nelson	
Hole Size	T.D.	Street	
12 1/4	220'		
Csg.	Depth	City	
8 5/8	220'	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Depth	Cement Amount Ordered 150 3 + 2	
Cement Left in Csg.	Shoe Joint		
30'			

Meas Line	Displace	Common
	12 3/4 bbl	150
EQUIPMENT		Poz. Mix
Pumptrk	No.	Driver
5		Nick
Bulktrk	No.	Driver
1		Lannie M
Bulktrk	No.	Driver
Pu		Brett
		Calcium
		5

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling 158
		Mileage

Cement		FLOAT EQUIPMENT
Circulated!!!		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

Pumptrk Charge		Tax
Surface		Discount
Mileage		Total Charge
28		
Signature Mike Smith		

JOB LOG

SWIFT Services, Inc.

DATE 15 AUG 13 PAGE NO.

CUSTOMER EXXONING & NELSON

WELL NO. 1-20

LEASE TYLER FABRIZIUS

JOB TYPE 52 LONGSTRING

TICKET NO. 24599

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							ON LOCATION
	2115							START PIPE 5 1/2-14 # RID @ 4180 SET @ 4178 SHOE JT. 21.33' CENTRALIZERS 1, 3, 5, 7, 9, 11, 57 BASKETS. 5, 58 DV TOOL @ 1815 # 58
	2255							DROP BALL - CIRCULATE
	2318	6	12				300	Pump 500 gal MUD FLUSH
		6	20				300	Pump 20 BBL KCL FLUSH
	2325	4	36					MIX 1.50 SX EA-2
	2336							WASH OUT PUMP & LINES
	2339	6						START DISPLACING PLUG
	2356	Ø	10 1/2				1500	PLUG DOWN LATCH PLUG IN
	2358							RELEASE PSI - DRY
	2359							DROP DV OPENING TOOL
	0020						1100	OPEN DV
	0021	6	20					Pump 20 BBL KCL FLUSH
	0029		7.5					PLUG RH - 30SX, MH - 20SX
	0035	6	97					MIX 1.75 SX SMD
	0059							WASH OUT PUMP & LINES
	0101	6						START DISPLACING CLOSING PLUG
	0110	Ø	44				1500	PLUG DOWN - CLOSE DV
	0112							RELEASE PSI - DRY
	0120							WASH TRUCK
	0200							JOB COMPLETE
								THANKS # 115
								JASON JEFF ISAAC



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

20-12s-22wTrego,KS

Tyler Fabrizius #1-20

Start Date: 2013.08.12 @ 20:10:00

End Date: 2013.08.13 @ 02:45:30

Job Ticket #: 54755 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 08:21:12

Downing Nelson Oil Co.

Tyler Fabrizius #1-20

20-12s-22wTrego,KS

DST # 1

KC "C-D"

2013.08.12



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54755

DST#: 1

Test Start: 2013.08.12 @ 20:10:00

GENERAL INFORMATION:

Formation: **KC "C-D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:07:30

Time Test Ended: 02:45:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Brett Dickinson

Unit No: 59

Interval: 3698.00 ft (KB) To 3744.00 ft (KB) (TVD)

Reference Elevations: 2417.00 ft (KB)

Total Depth: 3744.00 ft (KB) (TVD)

2409.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6753

Inside

Press @ Run Depth: 74.89 psig @ 3708.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.12

End Date: 2013.08.13

Last Calib.: 2013.08.13

Start Time: 20:10:05

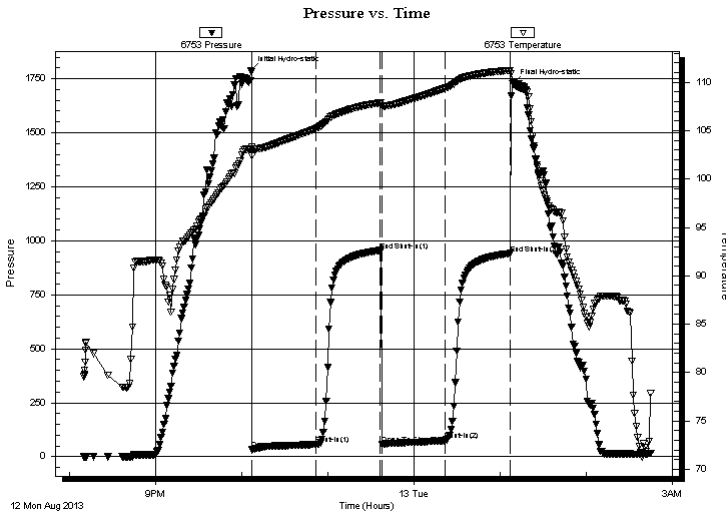
End Time: 02:45:29

Time On Btm: 2013.08.12 @ 22:06:30

Time Off Btm: 2013.08.13 @ 01:09:30

TEST COMMENT: IF-4" blow
ISI-No blow
FF-4" blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.64	103.03	Initial Hydro-static
1	33.41	102.40	Open To Flow (1)
46	56.84	105.21	Shut-In(1)
90	955.22	107.88	End Shut-In(1)
92	58.32	107.56	Open To Flow (2)
136	74.89	109.38	Shut-In(2)
181	941.29	111.22	End Shut-In(2)
183	1727.46	109.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
89.00	Oil spotted MCW 20%M 80%W	0.98
1.00	Free Oil	0.01

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co.
 PO Box 1019
 Hays KS 67601
 ATTN: Marc Downing

Tyler Fabrzius #1-20
20-12s-22w Trego, KS
 Job Ticket: 54755 **DST#: 1**
 Test Start: 2013.08.12 @ 20:10:00

GENERAL INFORMATION:

Formation: **KC "C-D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:07:30
 Time Test Ended: 02:45:30
Interval: 3698.00 ft (KB) To 3744.00 ft (KB) (TVD)
 Total Depth: 3744.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

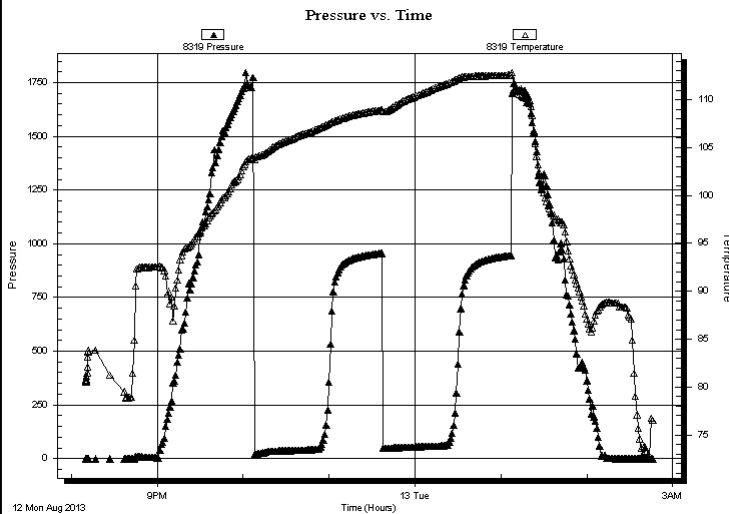
Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2417.00 ft (KB)
 2409.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8319

Outside

Press @ Run Depth: psig @ 3708.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.08.12 End Date: 2013.08.13 Last Calib.: 2013.08.13
 Start Time: 20:10:05 End Time: 02:45:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-4" blow
 IS- No blow
 FF-4" blow
 FS- No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
89.00	Oil spotted MCW 20%M 80%W	0.98
1.00	Free Oil	0.01

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54755

DST#: 1

Test Start: 2013.08.12 @ 20:10:00

Tool Information

Drill Pipe:	Length: 3666.00 ft	Diameter: 3.80 inches	Volume: 51.42 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3698.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	46.00 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			3678.00	
Shut In Tool	5.00			3683.00	
Hydraulic tool	5.00			3688.00	
Packer	5.00			3693.00	21.00 Bottom Of Top Packer
Packer	5.00			3698.00	
Stubb	1.00			3699.00	
Perforations	9.00			3708.00	
Recorder	0.00	6753	Inside	3708.00	
Recorder	0.00	8319	Outside	3708.00	
Change Over Sub	1.00			3709.00	
Drill Pipe	31.00			3740.00	
Change Over Sub	1.00			3741.00	
Bullnose	3.00			3744.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22wTrego,KS

Job Ticket: 54755

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.08.12 @ 20:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
89.00	Oil spotted MCW 20%M 80%W	0.975
1.00	Free Oil	0.014

Total Length: 90.00 ft Total Volume: 0.989 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

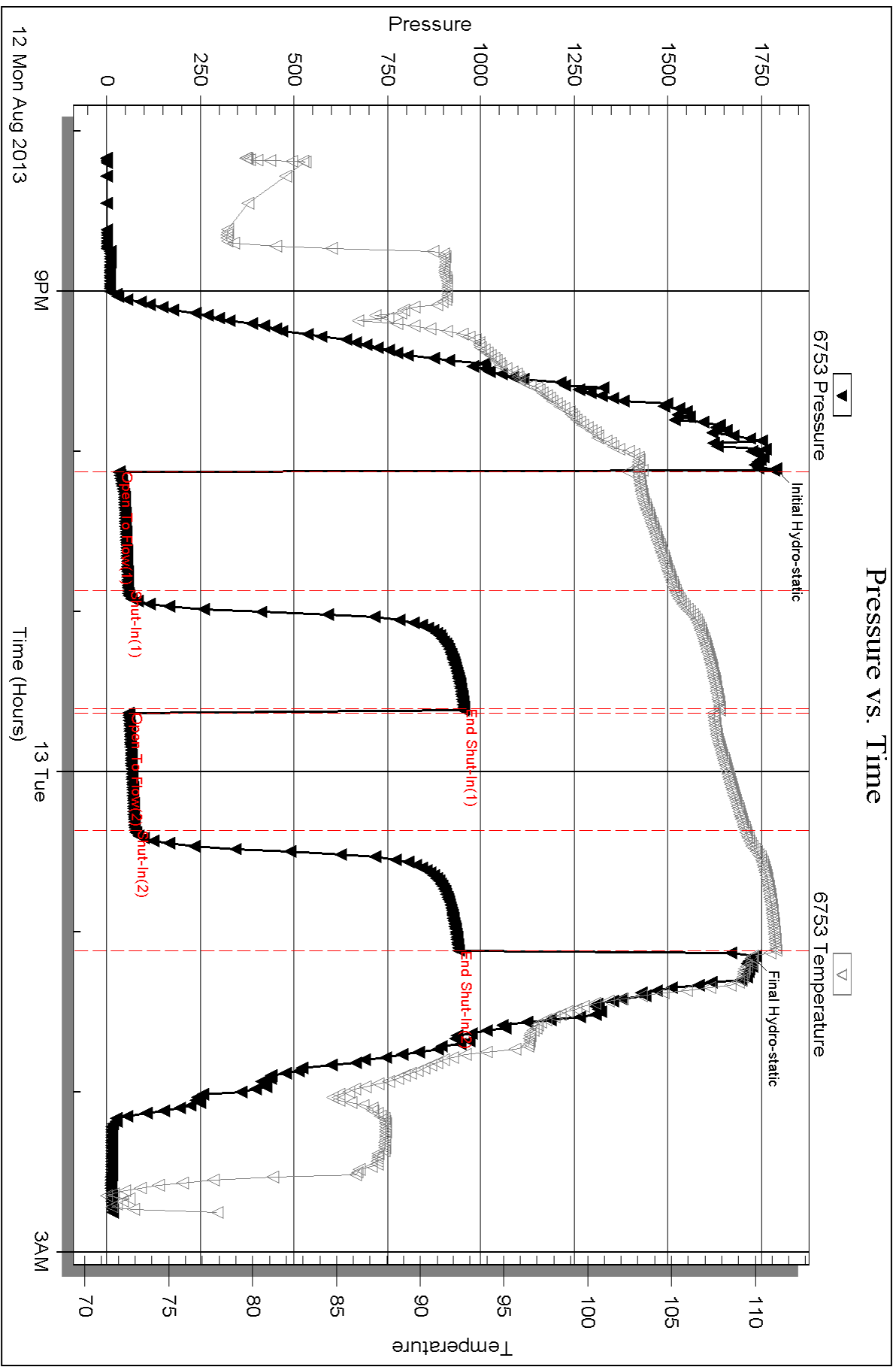
Serial #: 6753

Inside

Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 54755

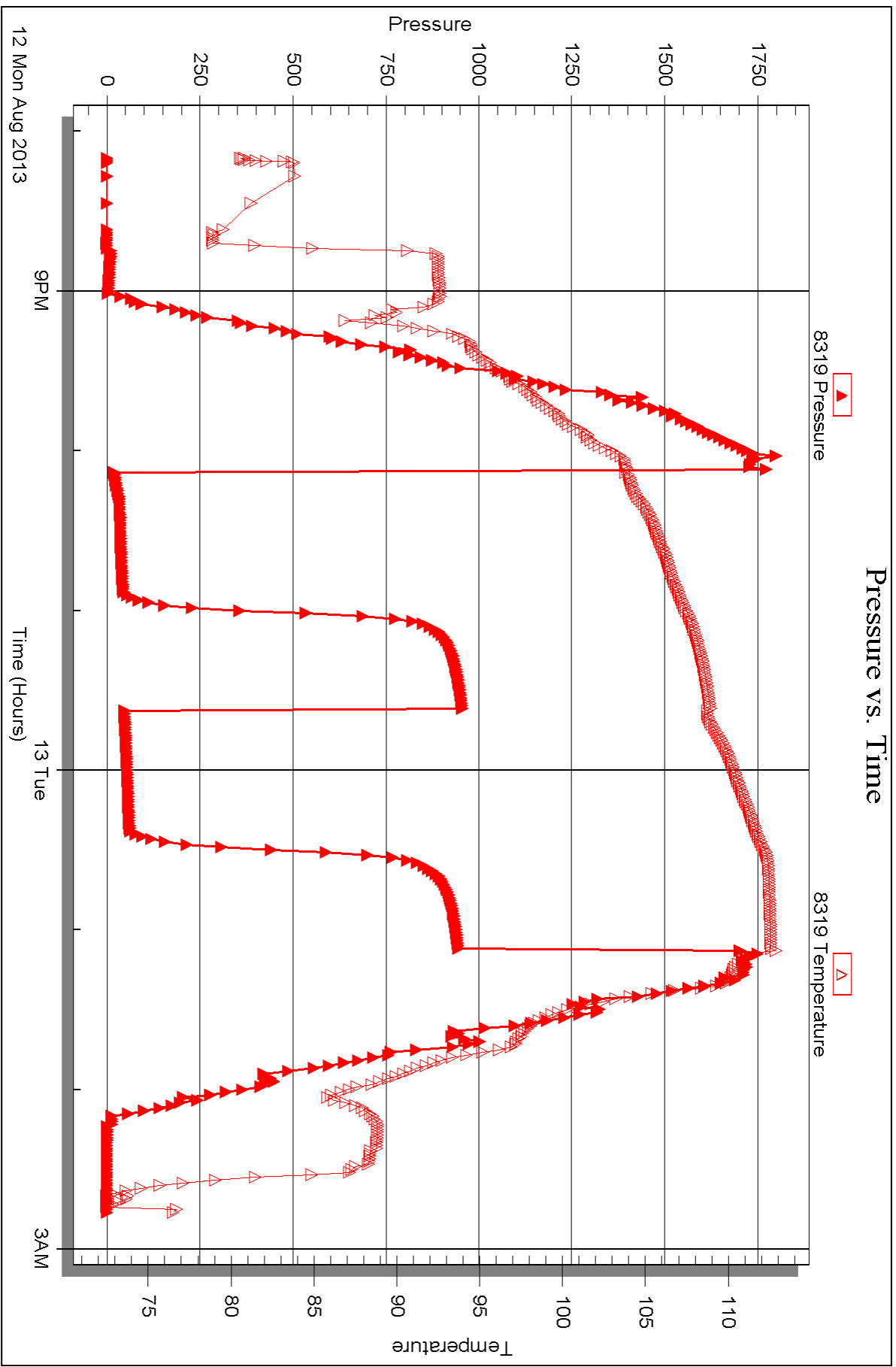
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Serial #: 8319

Outside Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

20-12s-22wTrego,KS

Tyler Fabrizio #1-20

Start Date: 2013.08.13 @ 08:35:00

End Date: 2013.08.13 @ 14:37:00

Job Ticket #: 54756 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 08:20:36



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.
PO Box 1019
Hays KS 67601
ATTN: Marc Dow ning

Tyler Fabrizius #1-20
20-12s-22wTrego,KS
Job Ticket: 54756 **DST#: 2**
Test Start: 2013.08.13 @ 08:35:00

GENERAL INFORMATION:

Formation: **KC"E"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:27:30
Time Test Ended: 14:37:00
Interval: **3737.00 ft (KB) To 3755.00 ft (KB) (TVD)**
Total Depth: 3755.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2417.00 ft (KB)
2409.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Brett Dickinson
Unit No: 59

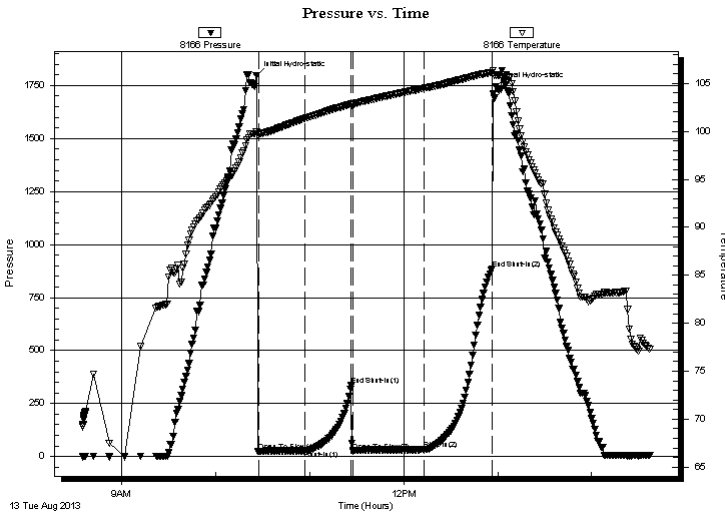
Serial #: 8166

Outside

Press @ Run Depth: 32.42 psig @ 3752.00 ft (KB)
Start Date: 2013.08.13 End Date: 2013.08.13
Start Time: 08:35:05 End Time: 14:36:59
Capacity: 8000.00 psig
Last Calib.: 2013.08.13
Time On Btm: 2013.08.13 @ 10:26:00
Time Off Btm: 2013.08.13 @ 12:59:00

TEST COMMENT: IF-2 1/2" blow
ISI-No blow
FF- 2 1/2" blow built to 5 1/2"
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1796.28	100.00	Initial Hydro-static
2	25.33	99.76	Open To Flow (1)
31	27.84	101.34	Shut-In(1)
61	336.65	102.84	End Shut-In(1)
62	24.77	102.81	Open To Flow (2)
107	32.42	104.49	Shut-In(2)
151	883.82	106.14	End Shut-In(2)
153	1745.90	105.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	SOCM 15%O 85%M	0.10
20.00	SGO 10%G 90%O	0.19
0.00	80ft GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54756

DST#: 2

Test Start: 2013.08.13 @ 08:35:00

Tool Information

Drill Pipe:	Length: 3696.00 ft	Diameter: 3.80 inches	Volume: 51.85 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3737.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	18.00 ft				
Tool Length:	39.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3717.00	
Shut In Tool	5.00			3722.00	
Hydraulic tool	5.00			3727.00	
Packer	5.00			3732.00	21.00 Bottom Of Top Packer
Packer	5.00			3737.00	
Stubb	1.00			3738.00	
Perforations	14.00			3752.00	
Recorder	0.00	6753	Inside	3752.00	
Recorder	0.00	8166	Outside	3752.00	
Bullnose	3.00			3755.00	18.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co.

Tyler Fabrzius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

Job Ticket: 54756

DST#: 2

ATTN: Marc Downing

Test Start: 2013.08.13 @ 08:35:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 57.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	SOCM 15%O 85%M	0.098
20.00	SGO 10%G 90%O	0.189
0.00	80ft GIP	0.000

Total Length: 40.00 ft Total Volume: 0.287 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

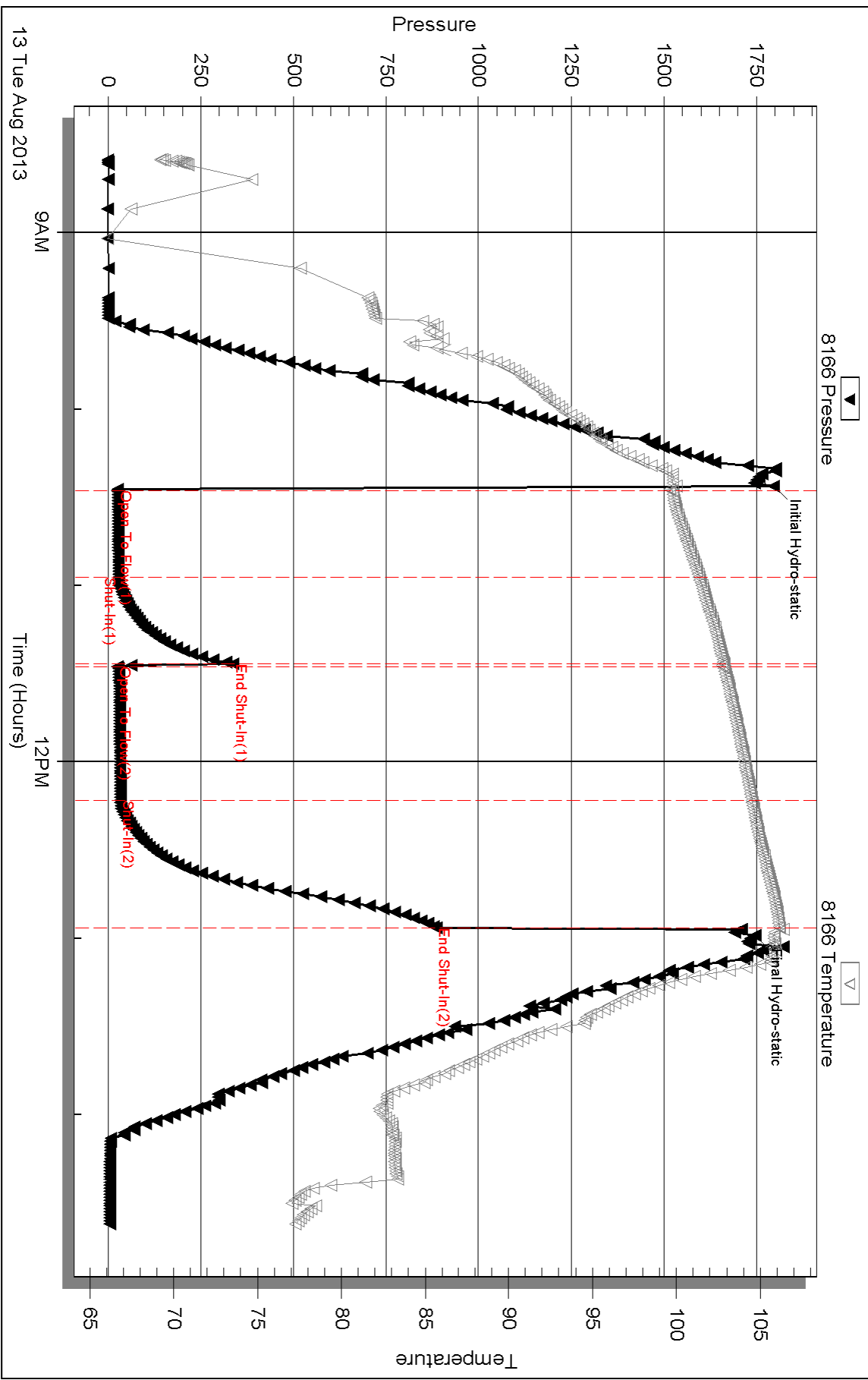
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



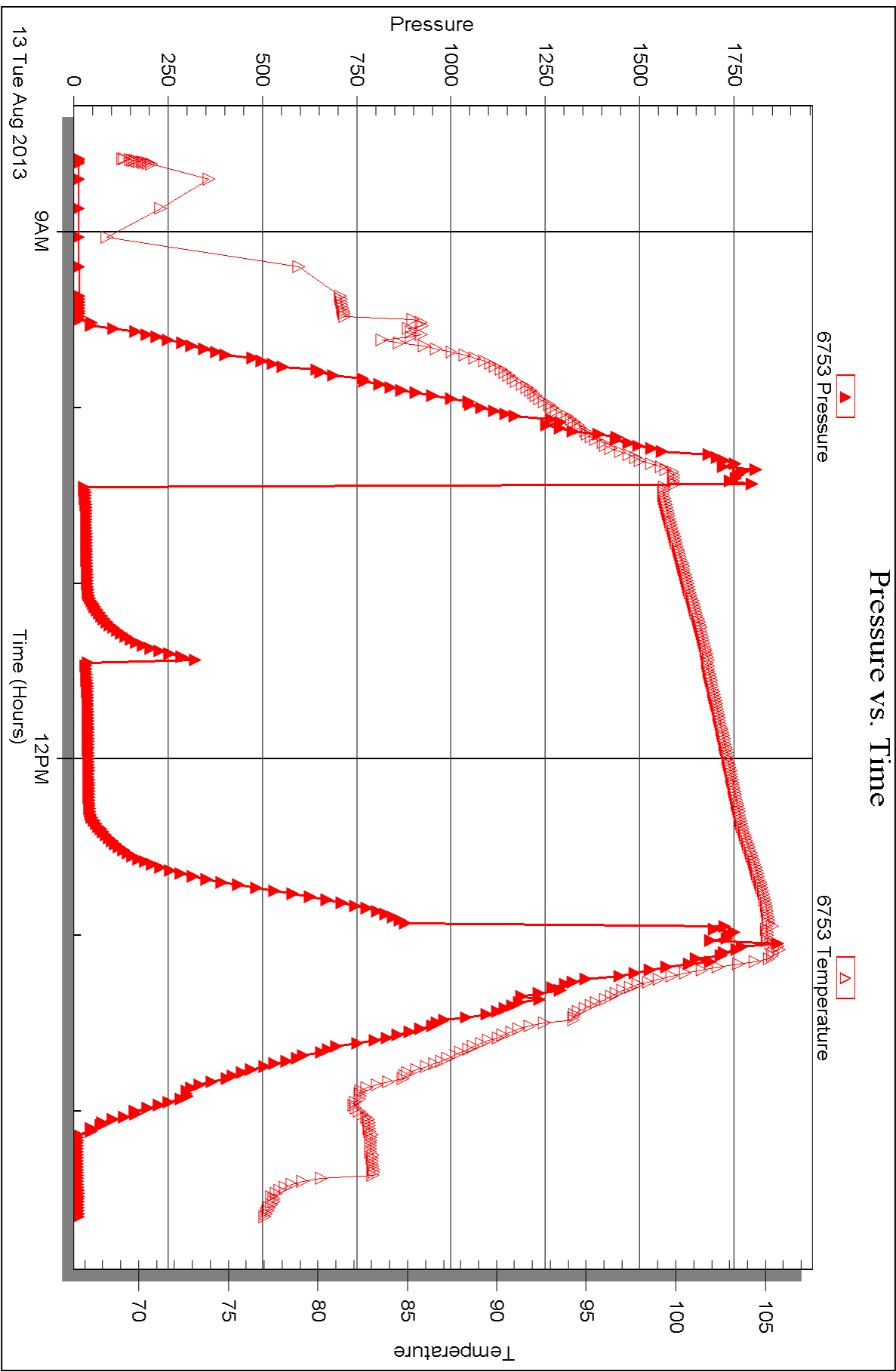
Serial #: 6753

Inside

Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

20-12s-22wTrego,KS

Tyler Fabrizio #1-20

Start Date: 2013.08.14 @ 11:57:00

End Date: 2013.08.14 @ 17:21:30

Job Ticket #: 54757 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 08:19:56

Downing Nelson Oil Co.

Tyler Fabrizio #1-20

20-12s-22wTrego,KS

DST # 3

Marmaton

2013.08.14



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22wTrego,KS

ATTN: Marc Dow ning

Job Ticket: 54757

DST#: 3

Test Start: 2013.08.14 @ 11:57:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:54:30

Time Test Ended: 17:21:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4010.00 ft (KB) To 4055.00 ft (KB) (TVD)

Reference Elevations: 2417.00 ft (KB)

Total Depth: 4055.00 ft (KB) (TVD)

2409.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8166 Outside

Press @ Run Depth: 29.01 psig @ 4019.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.08.14

End Date:

2013.08.14

Last Calib.: 2013.08.14

Start Time: 11:57:05

End Time:

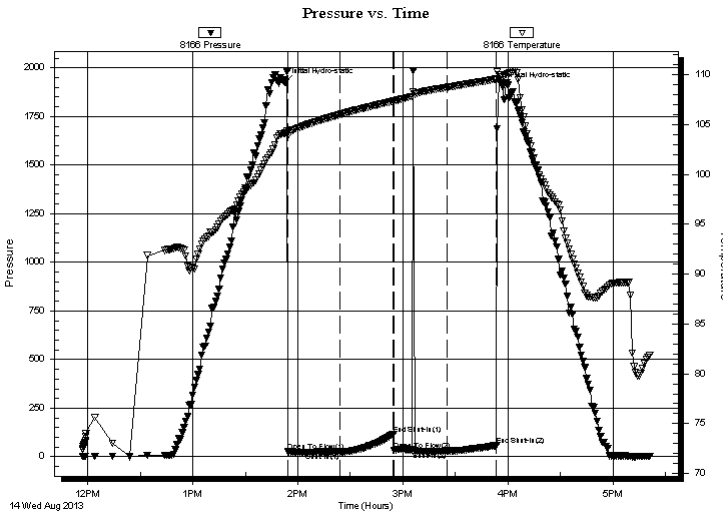
17:21:29

Time On Btm: 2013.08.14 @ 13:52:30

Time Off Btm: 2013.08.14 @ 15:57:00

TEST COMMENT: IF-3/4" blow
ISI-No blow
FF-No blow Flush tool No blow
FSI-No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1925.33	104.13	Initial Hydro-static
2	25.52	103.87	Open To Flow (1)
32	25.07	106.01	Shut-In(1)
62	117.15	107.36	End Shut-In(1)
63	33.46	107.37	Open To Flow (2)
93	29.01	108.74	Shut-In(2)
121	58.21	109.57	End Shut-In(2)
125	1904.92	109.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 2%O 98%M	0.02

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54757

DST#: 3

Test Start: 2013.08.14 @ 11:57:00

Tool Information

Drill Pipe:	Length: 3976.00 ft	Diameter: 3.80 inches	Volume: 55.77 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	4010.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	45.00 ft				
Tool Length:	66.00 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			3990.00	
Shut In Tool	5.00			3995.00	
Hydraulic tool	5.00			4000.00	
Packer	5.00			4005.00	21.00 Bottom Of Top Packer
Packer	5.00			4010.00	
Stubb	1.00			4011.00	
Perforations	8.00			4019.00	
Recorder	0.00	6753	Inside	4019.00	
Recorder	0.00	8166	Outside	4019.00	
Change Over Sub	1.00			4020.00	
Drill Pipe	31.00			4051.00	
Change Over Sub	1.00			4052.00	
Bullnose	3.00			4055.00	45.00 Bottom Packers & Anchor

Total Tool Length: 66.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22wTrego,KS

Job Ticket: 54757

DST#: 3

ATTN: Marc Dow ning

Test Start: 2013.08.14 @ 11:57:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
5.00	VSOCM 2%O 98%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

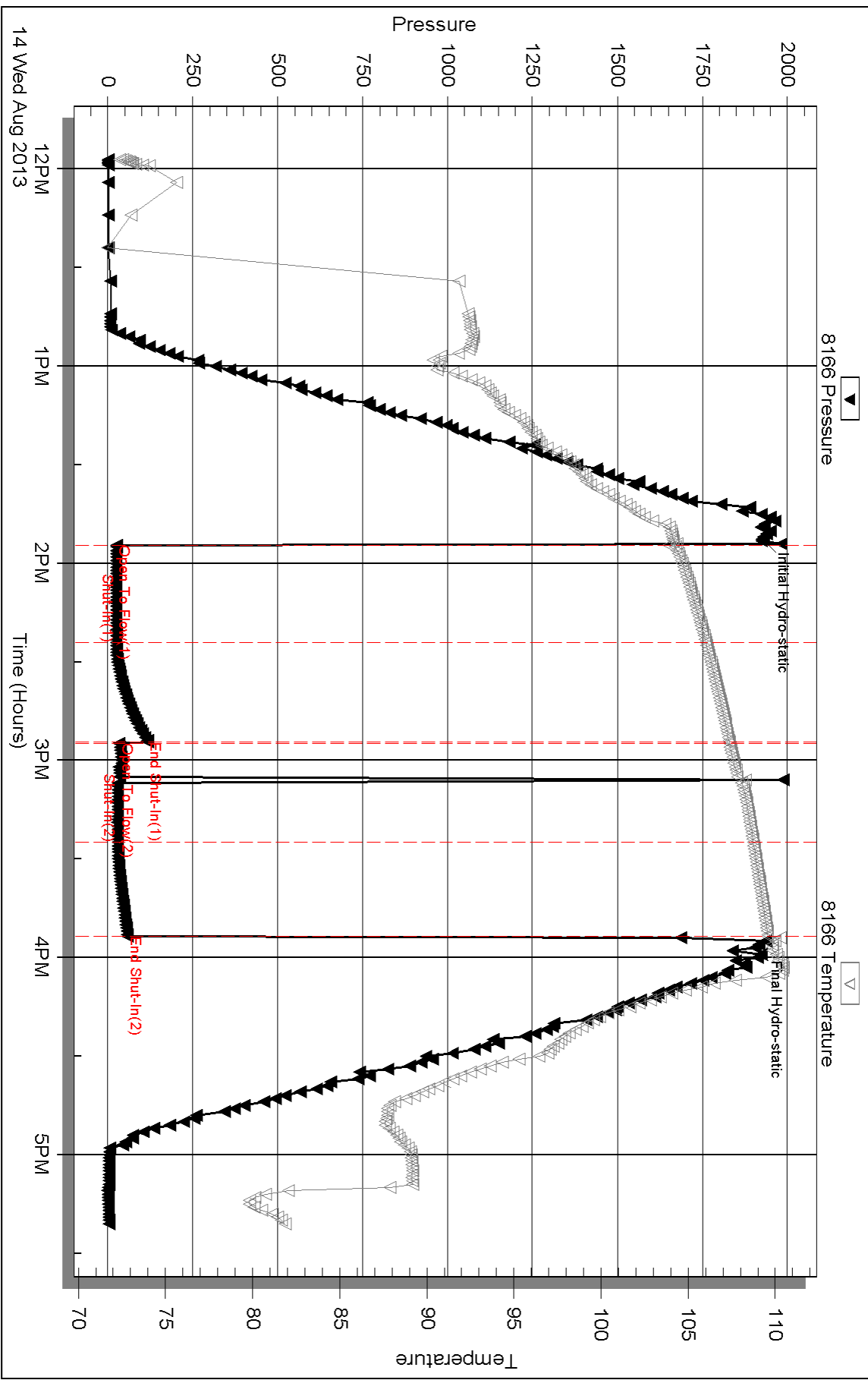
Serial #: 8166

Outside Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 3

Pressure vs. Time



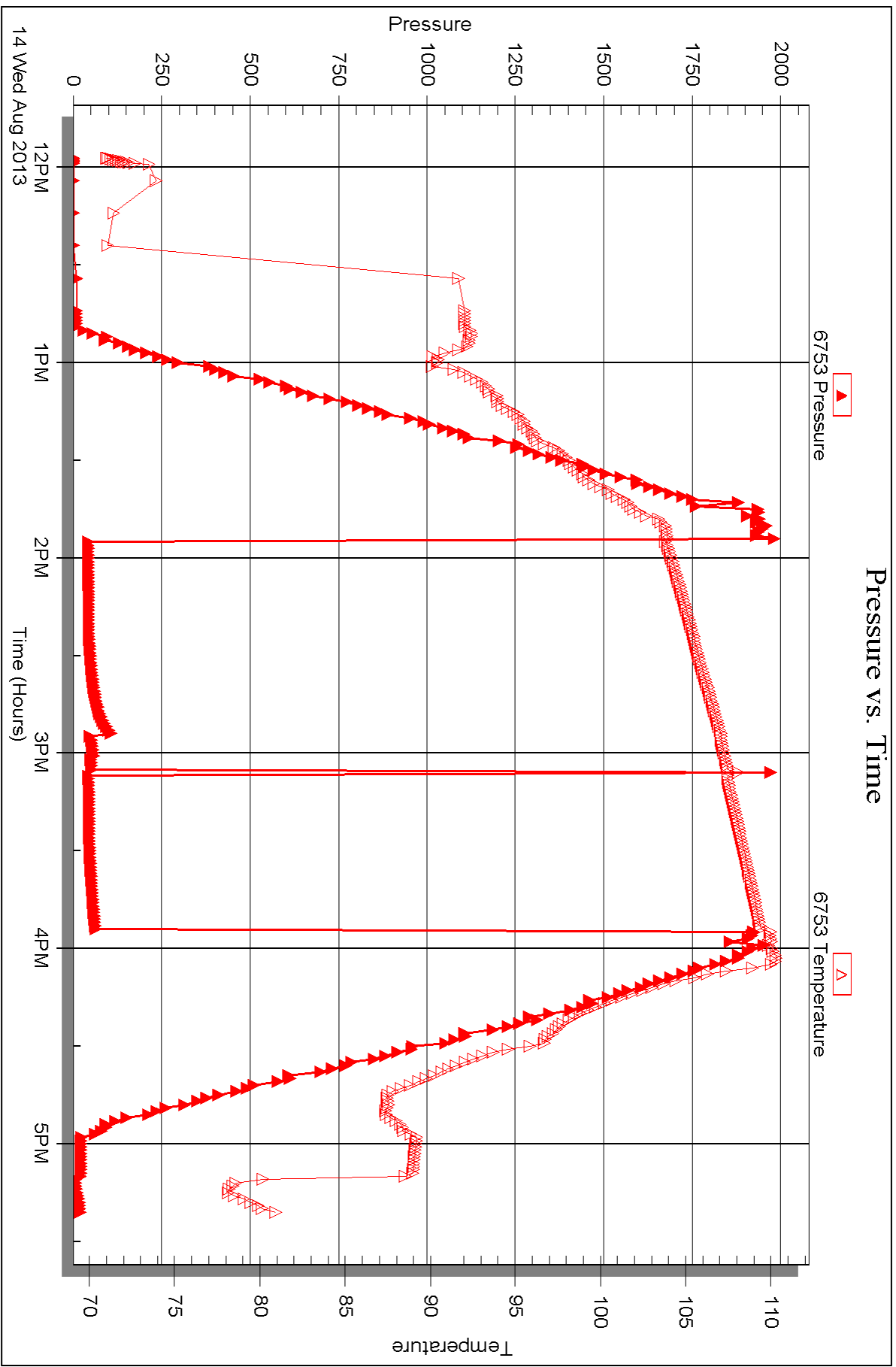
Serial #: 6753

Inside

Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 54757

Printed: 2013.08.16 @ 08:20:00



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

20-12s-22wTrego,KS

Tyler Fabrizius #1-20

Start Date: 2013.08.15 @ 07:25:00

End Date: 2013.08.15 @ 14:04:00

Job Ticket #: 54758 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.08.16 @ 08:11:19

Downing Nelson Oil Co.

Tyler Fabrizius #1-20

20-12s-22wTrego,KS

DST # 4

Arbuckle

2013.08.15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co.
PO Box 1019
Hays KS 67601
ATTN: Marc Dow ning

Tyler Fabrizius #1-20
20-12s-22w Trego, KS
Job Ticket: 54758 **DST#: 4**
Test Start: 2013.08.15 @ 07:25:00

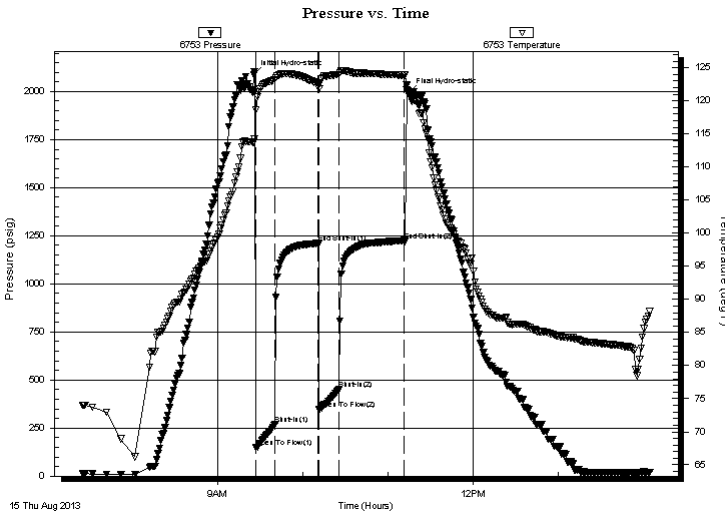
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:27:00
Time Test Ended: 14:04:00
Interval: **4122.00 ft (KB) To 4132.00 ft (KB) (TVD)**
Total Depth: 4180.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2417.00 ft (KB)
2409.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Straddle (Reset)
Tester: Brett Dickinson
Unit No: 59

Serial #: 6753 Outside
Press @ Run Depth: 452.95 psig @ 4128.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2013.08.15 End Date: 2013.08.15 Last Calib.: 2013.08.15
Start Time: 07:25:05 End Time: 14:03:59 Time On Btm: 2013.08.15 @ 09:25:30
Time Off Btm: 2013.08.15 @ 11:14:30

TEST COMMENT: IF-BOB in 1 1/2 min
ISI-1" blow
FF-BOB in 2 min
FSI-Weak Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2085.80	113.78	Initial Hydro-static
2	148.73	118.59	Open To Flow (1)
15	271.10	123.22	Shut-In(1)
45	1211.86	122.74	End Shut-In(1)
46	346.93	121.87	Open To Flow (2)
60	452.95	124.01	Shut-In(2)
106	1225.31	123.91	End Shut-In(2)
109	1994.92	120.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGMCO 10%G 15%M 75%O	0.15
1145.00	GO 20%G 80%O	16.06
0.00	60ft GIP	0.00

* 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 Co.
PO Box 1019
Hays KS 67601
ATTN: Marc Dow ning

Tyler Fabr izius #1-20
20-12s-22w Trego, KS
Job Ticket: 54758 **DST#: 4**
Test Start: 2013.08.15 @ 07:25:00

GENERAL INFORMATION:

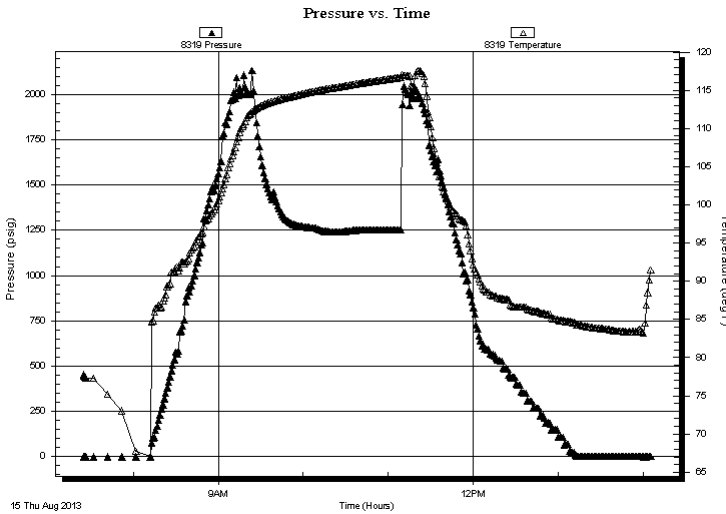
Formation: Arbuckle				
Deviated: No Whipstock:	ft (KB)	Test Type: Conventional Straddle (Reset)		
Time Tool Opened: 09:27:00		Tester: Brett Dickinson		
Time Test Ended: 14:04:00		Unit No: 59		
Interval: 4122.00 ft (KB) To 4132.00 ft (KB) (TVD)		Reference Elevations: 2417.00 ft (KB)		
Total Depth: 4180.00 ft (KB) (TVD)		2409.00 ft (CF)		
Hole Diameter: 7.88 inches Hole Condition: Fair		KB to GR/CF: 8.00 ft		

Serial #: 8319 Below (Straddle)

Press @ Run Depth: psig @ 4137.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.08.15 End Date: 2013.08.15	Last Calib.: 2013.08.15
Start Time: 07:25:05 End Time: 14:04:59	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF-BOB in 1 1/2 min
ISI-1" blow
FF-BOB in 2 min
FSI-Weak Surface blow

PRESSURE SUMMARY



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

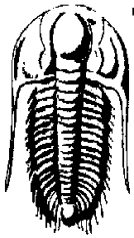
Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGMCO 10%G 15%M 75%O	0.15
1145.00	GO 20%G 80%O	16.06
0.00	60ft GIP	0.00

* 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 Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54758

DST#: 4

Test Start: 2013.08.15 @ 07:25:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:27:00

Time Test Ended: 14:04:00

Interval: 4122.00 ft (KB) To 4132.00 ft (KB) (TVD)

Total Depth: 4180.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Reset)

Tester: Brett Dickinson

Unit No: 59

Reference Elevations: 2417.00 ft (KB)

2409.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8166 Inside

Press @ Run Depth: psig @ 4128.00 ft (KB)

Start Date: 2013.08.15

End Date:

2013.08.15

Start Time: 07:25:05

End Time:

14:05:59

Capacity: 8000.00 psig

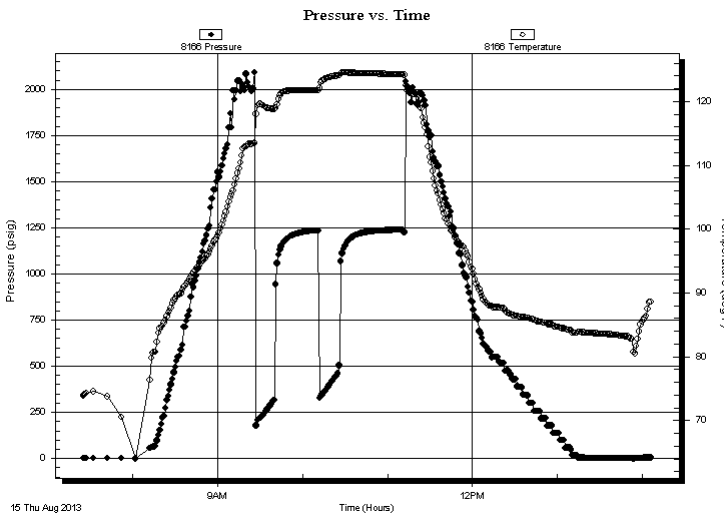
Last Calib.: 2013.08.15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-BOB in 1 1/2 min
ISI-1" blow
FF-BOB in 2 min
FSI-Weak Surface blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SGMCO 10%G 15%M 75%O	0.15
1145.00	GO 20%G 80%O	16.06
0.00	60ft GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22w Trego, KS

ATTN: Marc Dow ning

Job Ticket: 54758

DST#: 4

Test Start: 2013.08.15 @ 07:25:00

Tool Information

Drill Pipe:	Length: 4100.00 ft	Diameter: 3.80 inches	Volume: 57.51 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	4122.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	4132.00 ft			
Interval betw een Packers:	10.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	3	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			4103.00	
Shut In Tool	5.00			4108.00	
Hydraulic tool	5.00			4113.00	
Packer	4.00			4117.00	20.00 Bottom Of Top Packer
Packer	5.00			4122.00	
Stubb	1.00			4123.00	
Perforations	5.00			4128.00	
Recorder	0.00	8166	Inside	4128.00	
Recorder	0.00	6753	Outside	4128.00	
Blank Off Sub	4.00			4132.00	10.00 Tool Interval
Packer	4.00			4136.00	
Stubb	1.00			4137.00	
Recorder	0.00	8319	Below	4137.00	
perforations	10.00			4147.00	
Change Over Sub	1.00			4148.00	
Blank Spacing	31.00			4179.00	
Change Over Sub	1.00			4180.00	
Bullnose	3.00			4183.00	51.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co.

Tyler Fabrizius #1-20

PO Box 1019
Hays KS 67601

20-12s-22wTrego,KS

Job Ticket: 54758

DST#: 4

ATTN: Marc Dow ning

Test Start: 2013.08.15 @ 07:25:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	SGMCO 10%G 15%M 75%O	0.148
1145.00	GO 20%G 80%O	16.061
0.00	60ft GIP	0.000

Total Length: 1175.00 ft Total Volume: 16.209 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

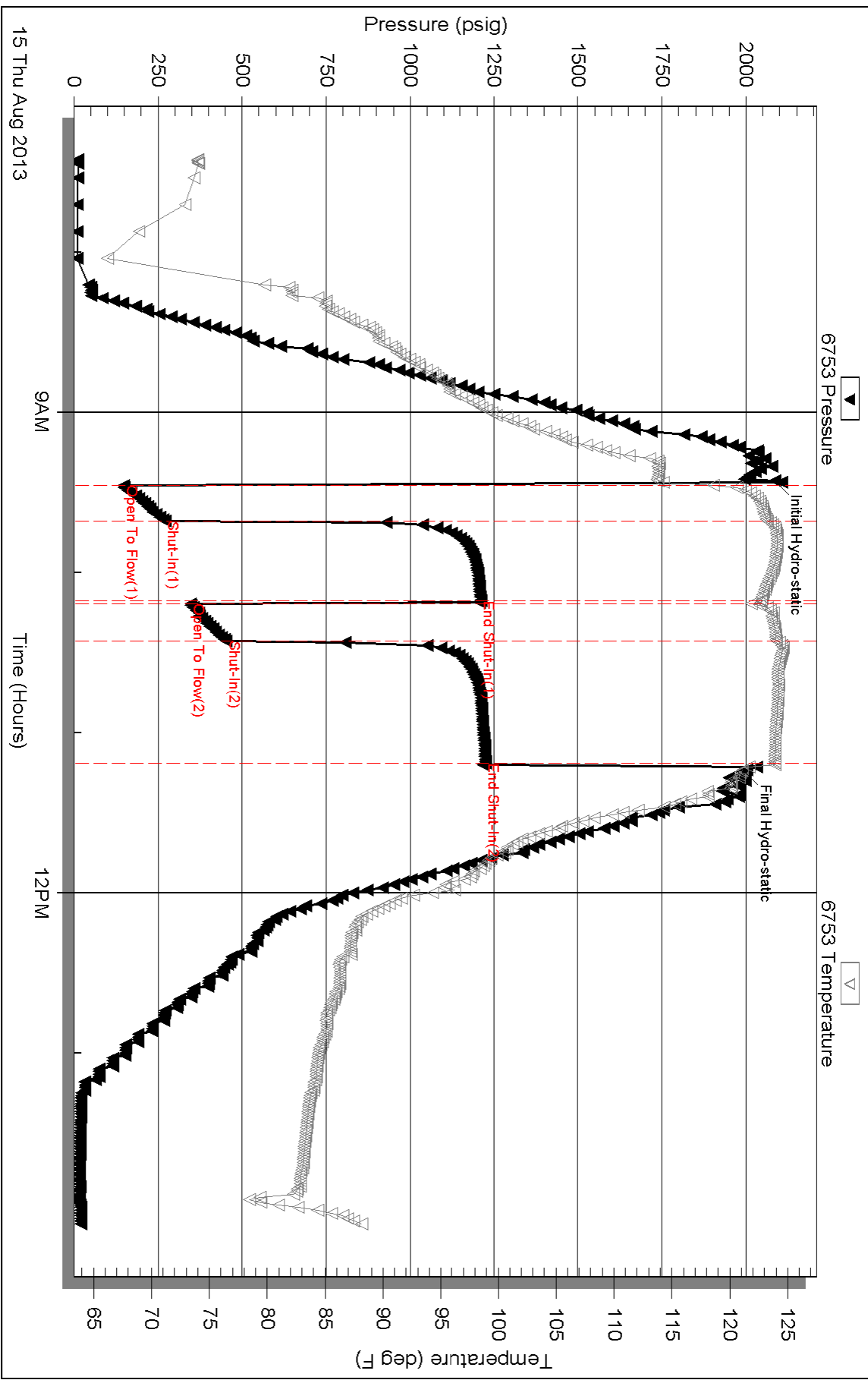
Serial #:

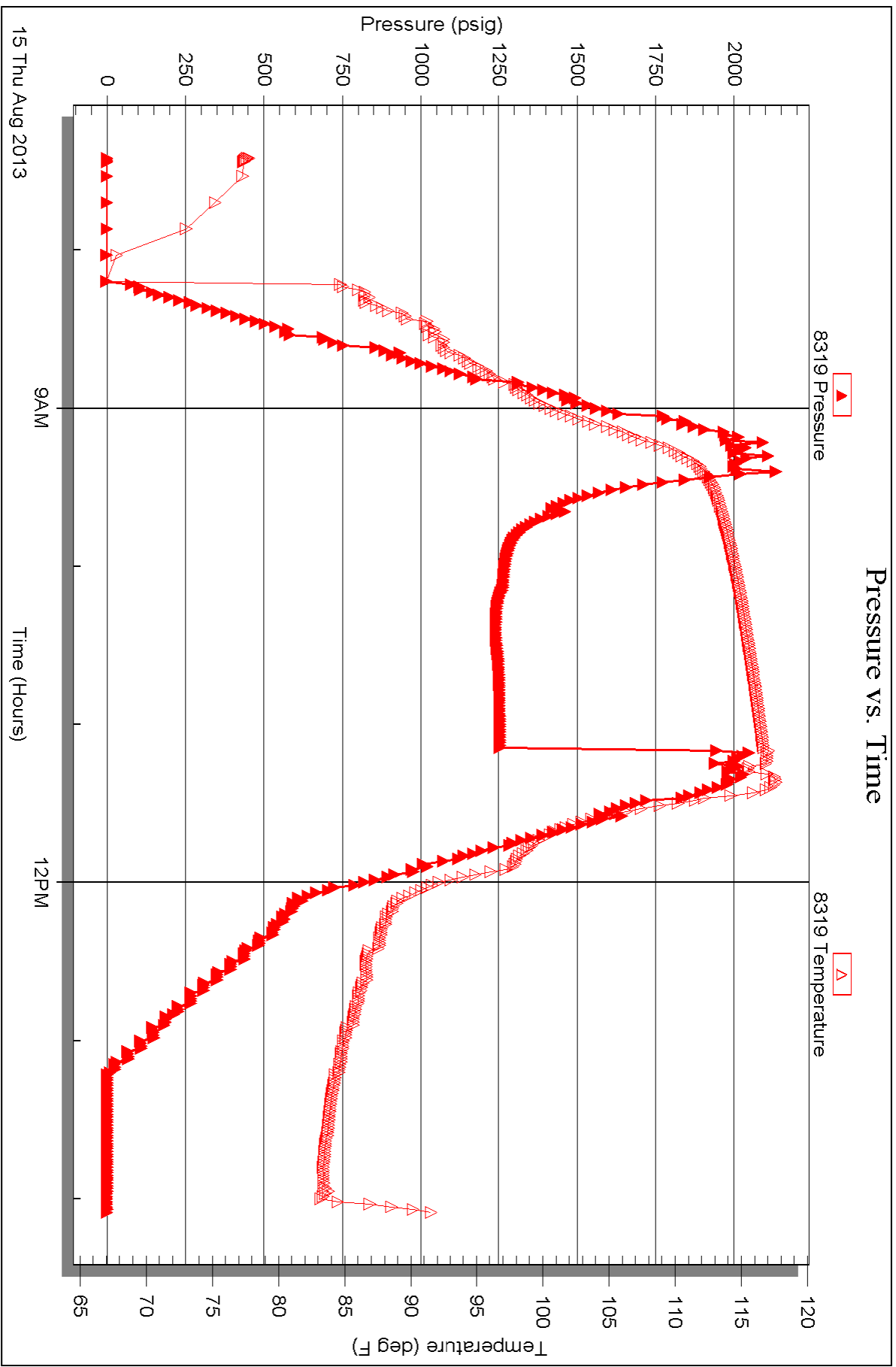
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





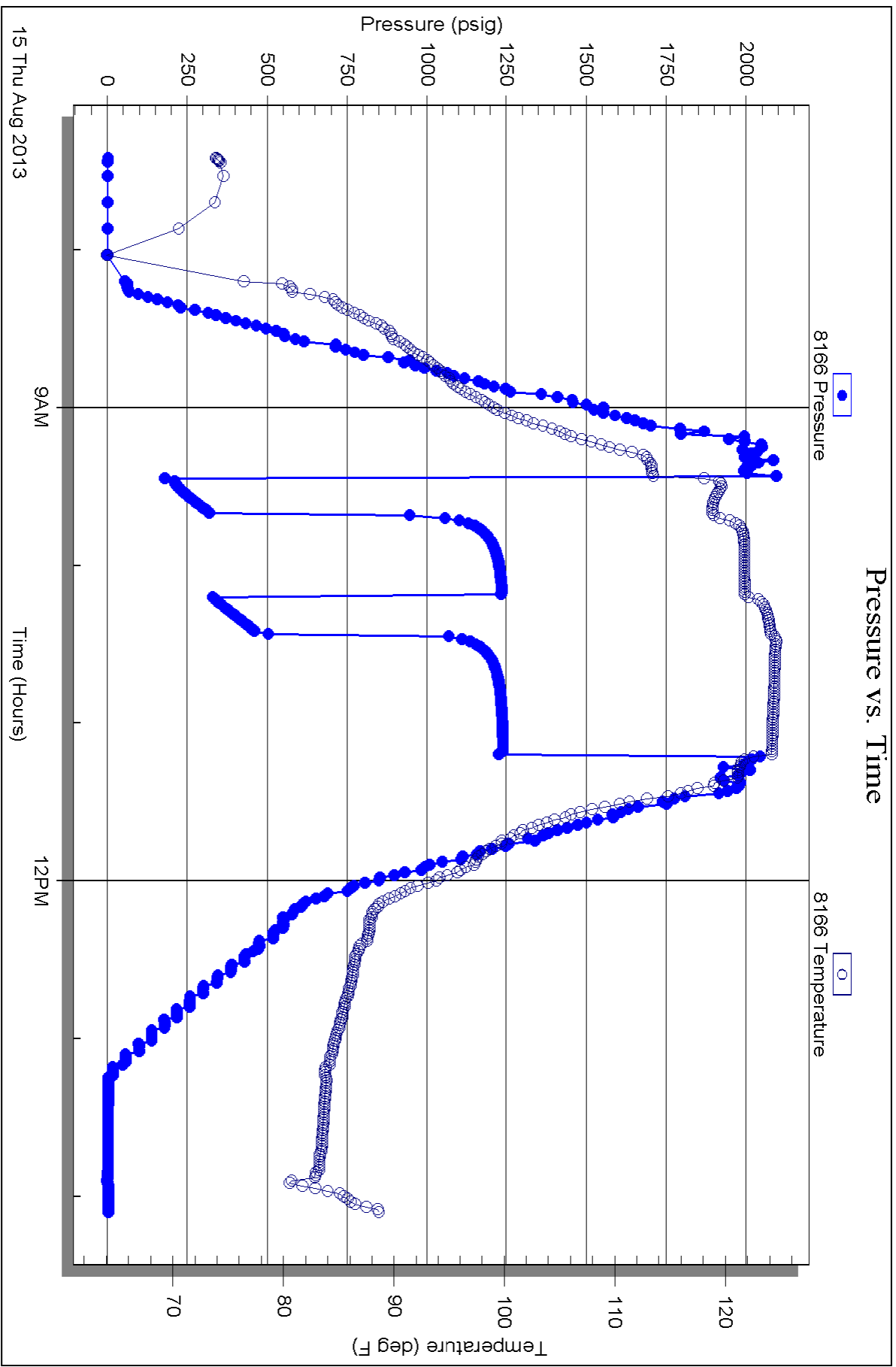
Serial #: 8166

Inside

Downing Nelson Oil Co.

20-12s-22w Trego, KS

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54755

Well Name & No. Tyler Fabrizzius #1-20 Test No. 1 Date 8/13/03
 Company Downing-Nelson Oil Co. Elevation 2417 KB 2409 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 20 Twp. 12 Rge. 22 Co. Trego State KS

Interval Tested 3698-3744 Zone Tested KC¹ C+D¹¹
 Anchor Length 46 Drill Pipe Run 3666 Mud Wt. 8.1
 Top Packer Depth 3693 Drill Collars Run 30 Vis 57
 Bottom Packer Depth 3698 Wt. Pipe Run — WL 8.8
 Total Depth 3744 Chlorides 1,500 ppm System LCM 2
 Blow Description IF - 4in blow
ISI - No blow
FF - 4in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>Free Oil</u>				
<u>89</u>	<u>oil spotted MCDW</u>		<u>80</u>	<u>20</u>	

Rec Total 90 BHT 111 Gravity — API RW .19 @ 60 °F Chlorides 46000 ppm
 (A) Initial Hydrostatic 1,789 Test 1150 T-On Location 18:45
 (B) First Initial Flow 33 Jars T-Started 20:10
 (C) First Final Flow 57 Safety Joint T-Open 22:07
 (D) Initial Shut-In 955 Circ Sub T-Pulled 1:07
 (E) Second Initial Flow 58 Hourly Standby T-Out 2:45
 (F) Second Final Flow 75 Mileage 6501 100.75 Comments _____
 (G) Final Shut-In 941 Sampler _____
 (H) Final Hydrostatic 1,727 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Extra Packer _____
 Final Flow 45 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Accessibility _____
 Sub Total 1250.75 MP/DST Disc't _____

Approved By _____ Our Representative Burd

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. **54756**

Well Name & No. Tyler Fabrizius #1-20 Test No. 2 Date 8/13/13
 Company Downing-Nelson Oil Co. Elevation 2417 KB 2409 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. AI Downing Rig Discovery #4
 Location: Sec. 20 Twp. 12 Rge. 22 Co. Trego State KS

Interval Tested 3737 - 3755 Zone Tested KC"E"
 Anchor Length 18 Drill Pipe Run 3696 Mud Wt. 8.1
 Top Packer Depth 3732 Drill Collars Run 30 Vis 57
 Bottom Packer Depth 3737 Wt. Pipe Run - WL 8.8
 Total Depth 3755 Chlorides 1,500 ppm System LCM 2

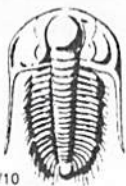
Blow Description IF - 2 1/2 in blow
ISF - No blow
FF - 2 1/2 in blow built to 5 1/2 in
FSF - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>560</u>	<u>10</u>	<u>90</u>		
<u>20</u>	<u>50CM</u>		<u>15</u>		<u>85</u>
Rec Total	<u>40</u>				

BHT 106 Gravity 37 API RW @ ° F Chlorides ppm
 (A) Initial Hydrostatic 1,796 Test 1150 T-On Location 7:55
 (B) First Initial Flow 25 Jars T-Started 8:35
 (C) First Final Flow 28 Safety Joint T-Open 10:27
 (D) Initial Shut-In 337 Circ Sub T-Pulled 12:57
 (E) Second Initial Flow 25 Hourly Standby T-Out 14:35
 (F) Second Final Flow 32 Mileage 65 rt 100.75 Comments
 (G) Final Shut-In 884 Sampler
 (H) Final Hydrostatic 1,746 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 1250.75
 Final Flow 45 Accessibility MP/DST Disc't
 Final Shut-In 45 Sub Total 1250.75

Approved By _____ Our Representative Bett Dickinson

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. 54757

Well Name & No. Tyler Fabricius #1-20 Test No. 3 Date 8/14/13
 Company Downing-Nelson Oil Co Elevation 2417 KB 2409 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. AI Downing Rig Discovery #4
 Location: Sec. 20 Twp. 12 Rge. 22 Co. Trego State KS

Interval Tested 4010-4055 Zone Tested Marmaton
 Anchor Length 45 Drill Pipe Run 3976 Mud Wt. 8.7
 Top Packer Depth 4005 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4010 Wt. Pipe Run — WL 8.8
 Total Depth 4055 Chlorides 5,000 ppm System LCM 1 1/2 #
 Blow Description FF - 3/4" blow
ISF - No blow
FF - No blow flush tool No blow
FST - No blow

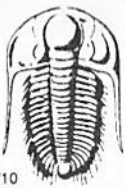
Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>vsocm</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 110 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,925 Test 1250 T-On Location 11:40
 (B) First Initial Flow 26 Jars T-Started 11:57
 (C) First Final Flow 25 Safety Joint T-Open 13:55
 (D) Initial Shut-In 117 Circ Sub T-Pulled 15:55
 (E) Second Initial Flow 33 Hourly Standby T-Out 17:20
 (F) Second Final Flow 29 Mileage 65 RT 100.75 Comments _____
 (G) Final Shut-In 58 Sampler _____
 (H) Final Hydrostatic 1,905 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 1350.75
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1350.75

Approved By _____ Our Representative Beth Dyer

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. 54758

Well Name & No. Tyler Fabrizio #1-20 Test No. 4 Date 8/15/13
 Company Downing-Nelson Oil Co Elevation 2417 KB 2409 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 20 Twp. 12 Rge. 22 Co. Trego State KS

Interval Tested 4122 - 4132 Zone Tested Arb.
 Anchor Length 10 Drill Pipe Run _____ Mud Wt. 8.7
 Top Packer Depth 4117, 4122 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4132 Wt. Pipe Run _____ WL 8.8
 Total Depth 4180 Chlorides 5,000 ppm System LCM 1 1/2 #

Blow Description IF - BOB in 1 1/2 mi -
ISE - 1 in blow
FF - BOB in 2 mi
FSE - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SGMCO</u>	<u>10</u>	<u>75</u>	<u>15</u>	
<u>1145</u>	<u>60</u>	<u>20</u>	<u>80</u>		
	<u>6000 GIP</u>				

Rec Total 1175 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 2,086 Test 1250 T-On Location 7:05
 (B) First Initial Flow 149 Jars _____ T-Started 7:25
 (C) First Final Flow 271 Safety Joint _____ T-Open 9:21
 (D) Initial Shut-In 1,212 Circ Sub _____ T-Pulled 11:07
 (E) Second Initial Flow 347 Hourly Standby _____ T-Out 14:00
 (F) Second Final Flow 453 Mileage 65 RT 100.75
 (G) Final Shut-In 1,225 Sampler _____
 (H) Final Hydrostatic 1,995 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1950.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1950.75

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 45
 Approved By _____ Our Representative Burt

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