

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1322437
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: _____

1322437

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

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

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

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

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

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	GERBER 1-35
Doc ID	1322437

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	GERBER 1-35
Doc ID	1322437

Tops

Name	Top	Datum
Top Anhydrite	1676'	+642
Base Anhydrite	1722'	+596
Topeka	3380'	-1062
Heebner	3616'	-1298
Toronto	3638'	-1320
LKC	3655'	-1337
BKC	3907'	-1589
Marmaton	3988'	-1670
Cherokee Shale	4030'	-1712
Arbuckle	4058'	-1740

SWIFT Services, Inc.

DATE 10-8-16 PAGE NO. 1

WELL NO. 1-35 LEASE GERBER JOB TYPE 8 5/8" SURFACE TICKET NO. 29681

START NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1830							ON LOCATION
								TD-212 SET-212 TP-212 8 5/8" - 23 # 15' CEMENT LEFT IN CASING
	1940							BREAK CIRCULATION
	2005	6	36.3		✓	100		MIX CEMENT - 150 SKS STANDARD 2% GEL, 3% CC
	2012	6	0		✓	150		DISPLACE CEMENT
	2015		12 3/4			100		CEMENT DISPLACED - SHUT IN
								CIRCULATED 15 SKS CEMENT TO PER
								WASH TRUCK
	2100							JOB COMPLETE
								THANK YOU WAYNE, DAVE K., PRISTON

JOB LOG

SWIFT Services, Inc.

DATE 16 Oct 16 PAGE NO. 1

CUSTOMER Dannig & Nelson WELL NO. 1-35 LEASE Gerber JOB TYPE concrete long string - 2 stage TICKET NO. 29752

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								150 sk SA-2 cement w/ 1/2" flocc 200 sk SMD cement w/ 1/2" flocc 5 1/2" x 14" casing 98 joints TOTAL PIPE ⁴¹⁵³ 4233' shoe, + 4121' Centrolizer 1, 3, 5, 7, 9, 11, 59 Basket #60 DV tool #60 1634.56'
	0530							on loc TRK 114
	0615							start 5 1/2" x 14" casing in well
	0728							Drop ball - circulate - ROTATE
	0838	4 1/2	12				100	Pump 50 gal mud flush
		4 1/2	20				100	Pump 20 bbl KCL flush
	0845	5	36				200	Mix SA-2 cement 150 sk @ 15.3 PPG ^{500 mixed} Drop 1st stage latch down plug wash out pup & line
	0857	5 3/4					100	Displace plug
		5 3/4	93				830	
	0915	5 3/4	99				1500	Land plug Release pressure to truck - dried up Drop bomb
	0918	5	20				200	Pump 20 bbl KCL flush
							1000	open DV tool
			7					Plug RH - MH 30sk - 20sk {50sk}
	0945	5 3/4	111				200	Mix SMD cement 150 sk @ 11.2 PPG wash out pup & line Displace + Drop 2nd stage plug
	1023	6					100	Displace plug
		6	29				1000	concrete to surface
	1030	6	40				1400	Land plug Release pressure to truck - dried up
	1035							wash truck {300sk total}
	1105							Rack up Job complete y tracks Fred Blaine, 4/15/16



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.13 @ 03:26:00

End Date: 2016.10.13 @ 09:19:45

Job Ticket #: 63487 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:44:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

GENERAL INFORMATION:

Formation: **LKC 'E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:00

Time Test Ended: 09:19:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3714.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @RunDepth: 157.42 psig @ 3715.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.13

Last Calib.:

2016.10.13

Start Time: 03:26:15

End Time:

09:19:45

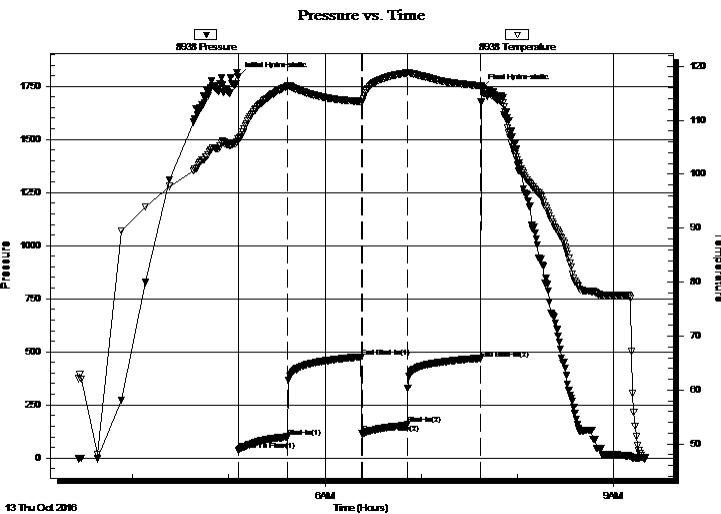
Time On Btm:

2016.10.13 @ 05:05:45

Time Off Btm:

2016.10.13 @ 07:37:30

TEST COMMENT: 30-IF-BOB in 13 minutes
45-ISI- Weak surface blow ; built to 1/4"
30-FF- Strong Blow ; Built to 8"
45-FSI-Very weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.32	106.51	Initial Hydro-static
1	38.05	106.17	Open To Flow (1)
31	99.59	116.32	Shut-In(1)
77	475.71	113.45	End Shut-In(1)
78	114.84	113.42	Open To Flow (2)
106	157.42	118.78	Shut-In(2)
151	467.15	116.35	End Shut-In(2)
152	1738.04	116.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MW 30%M 70% W	4.13

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

Tool Information

Drill Pipe:	Length: 3669.00 ft	Diameter: 3.80 inches	Volume: 51.47 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3714.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3695.00	
Shut In Tool	5.00			3700.00	
Hydraulic tool	5.00			3705.00	
Packer	5.00			3710.00	20.00 Bottom Of Top Packer
Packer	4.00			3714.00	
Stubb	1.00			3715.00	
Recorder	0.00	8353	Outside	3715.00	
Recorder	0.00	8938	Inside	3715.00	
Perforations	11.00			3726.00	
Perforations	4.00			3730.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

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:

12000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MW 30%M 70% W	4.127

Total Length: 315.00 ft Total Volume: 4.127 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

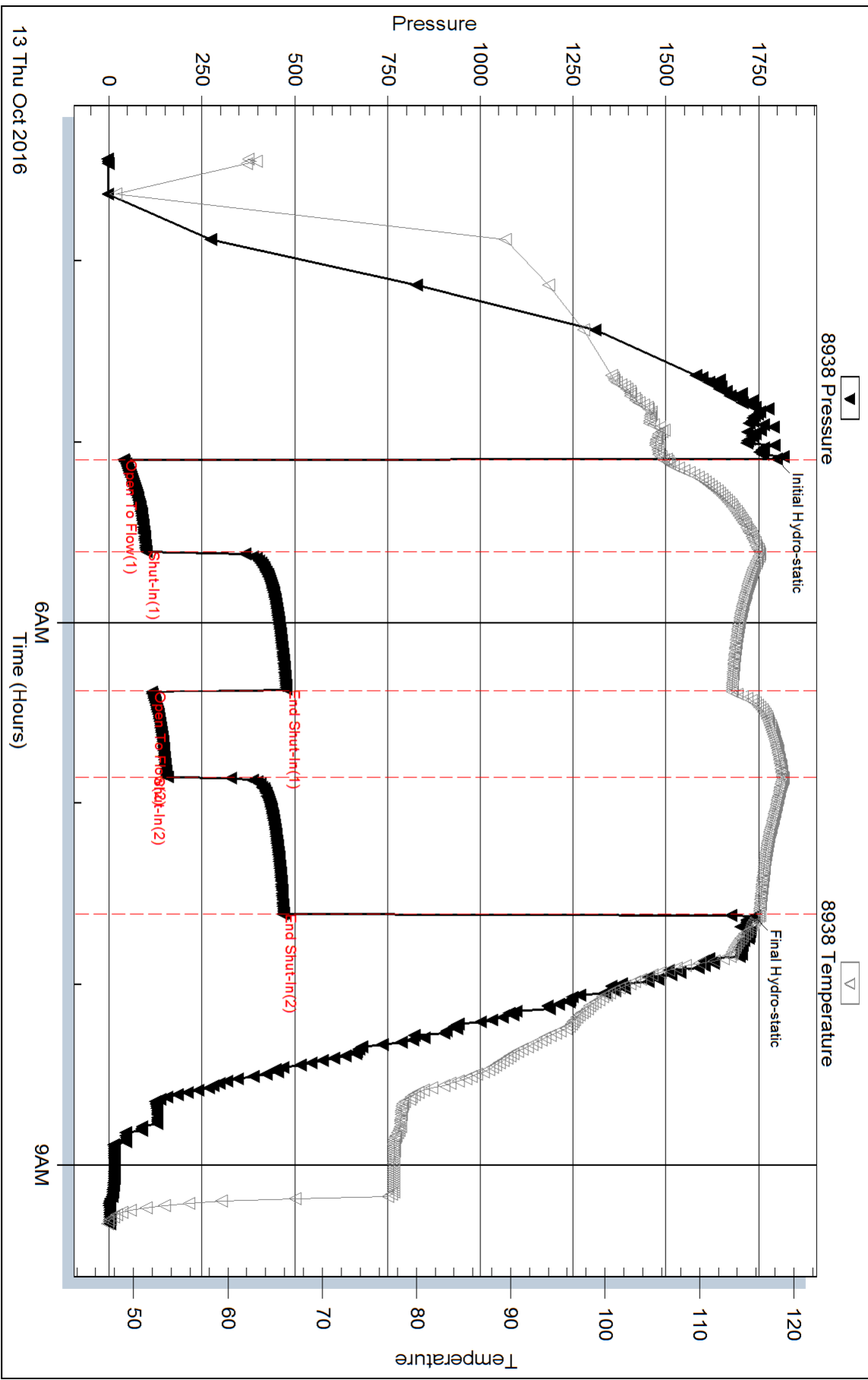
Serial #:

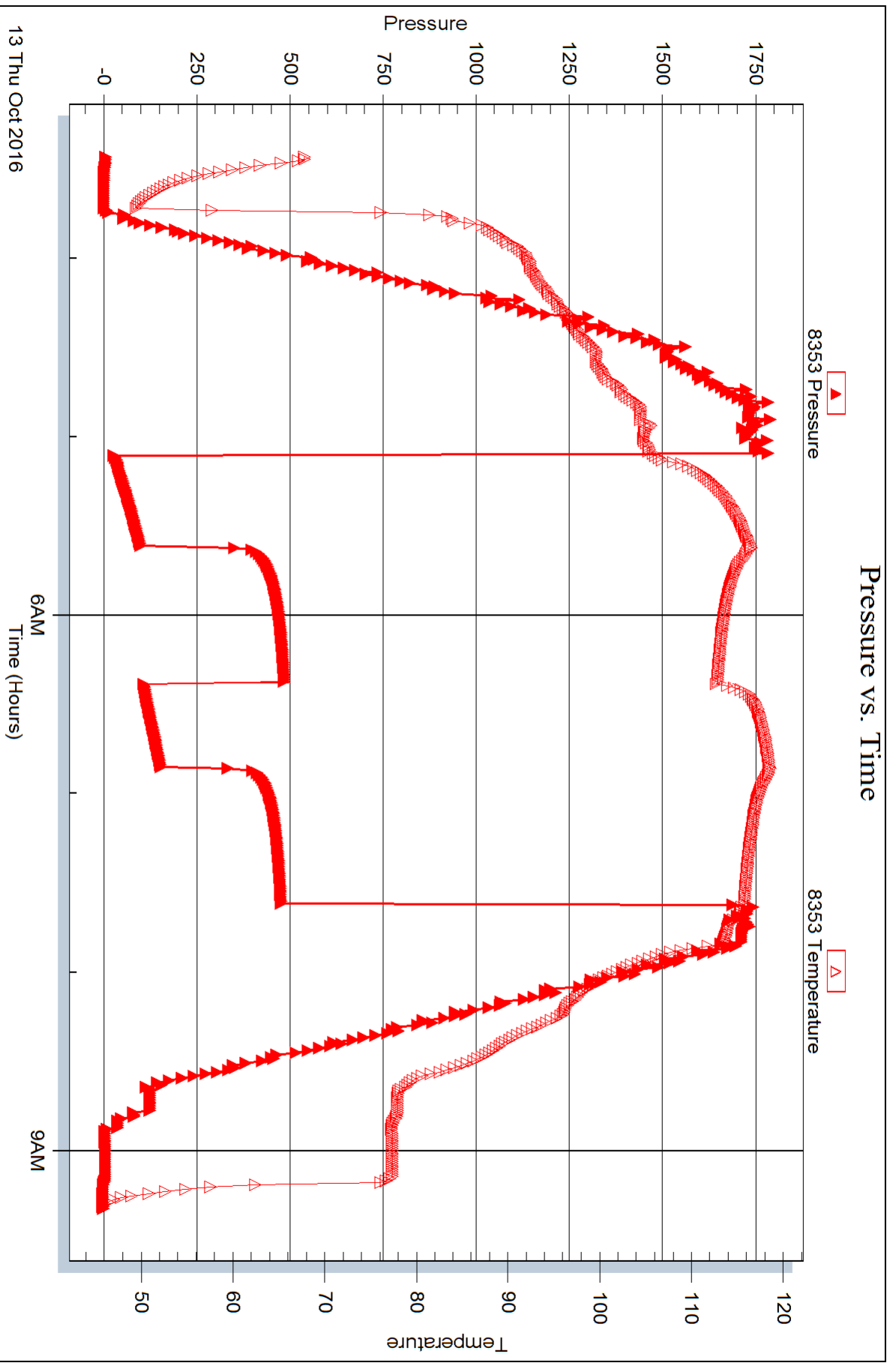
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.13 @ 19:11:00

End Date: 2016.10.14 @ 00:43:45

Job Ticket #: 63488 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:44:01



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:00

Time Test Ended: 00:43:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3772.00 ft (KB) To 3805.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @ Run Depth: 25.93 psig @ 3773.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.14

Last Calib.:

2016.10.14

Start Time: 19:11:15

End Time:

00:43:45

Time On Btm:

2016.10.13 @ 21:02:45

Time Off Btm:

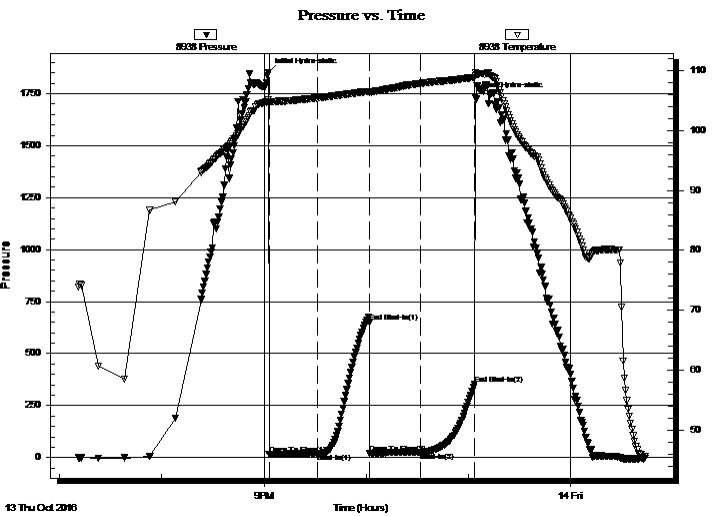
2016.10.13 @ 23:04:00

TEST COMMENT: 30-IF-Very Weak Surface Blow ; built to 1/2"

30-ISI-No Blow

30-FF-No Blow

30-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.06	105.14	Initial Hydro-static
1	15.62	104.68	Open To Flow (1)
29	20.09	105.44	Shut-In(1)
59	649.92	106.53	End Shut-In(1)
60	21.82	106.33	Open To Flow (2)
90	25.93	107.88	Shut-In(2)
121	354.85	108.85	End Shut-In(2)
122	1736.20	109.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w / oil specs	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

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.80 inches	Volume: 52.45 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3772.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	33.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3753.00	
Shut In Tool	5.00			3758.00	
Hydraulic tool	5.00			3763.00	
Packer	5.00			3768.00	20.00 Bottom Of Top Packer
Packer	4.00			3772.00	
Stubb	1.00			3773.00	
Recorder	0.00	8353	Outside	3773.00	
Recorder	0.00	8938	Inside	3773.00	
Perforations	28.00			3801.00	
Bullnose	4.00			3805.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud w / oil specs	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

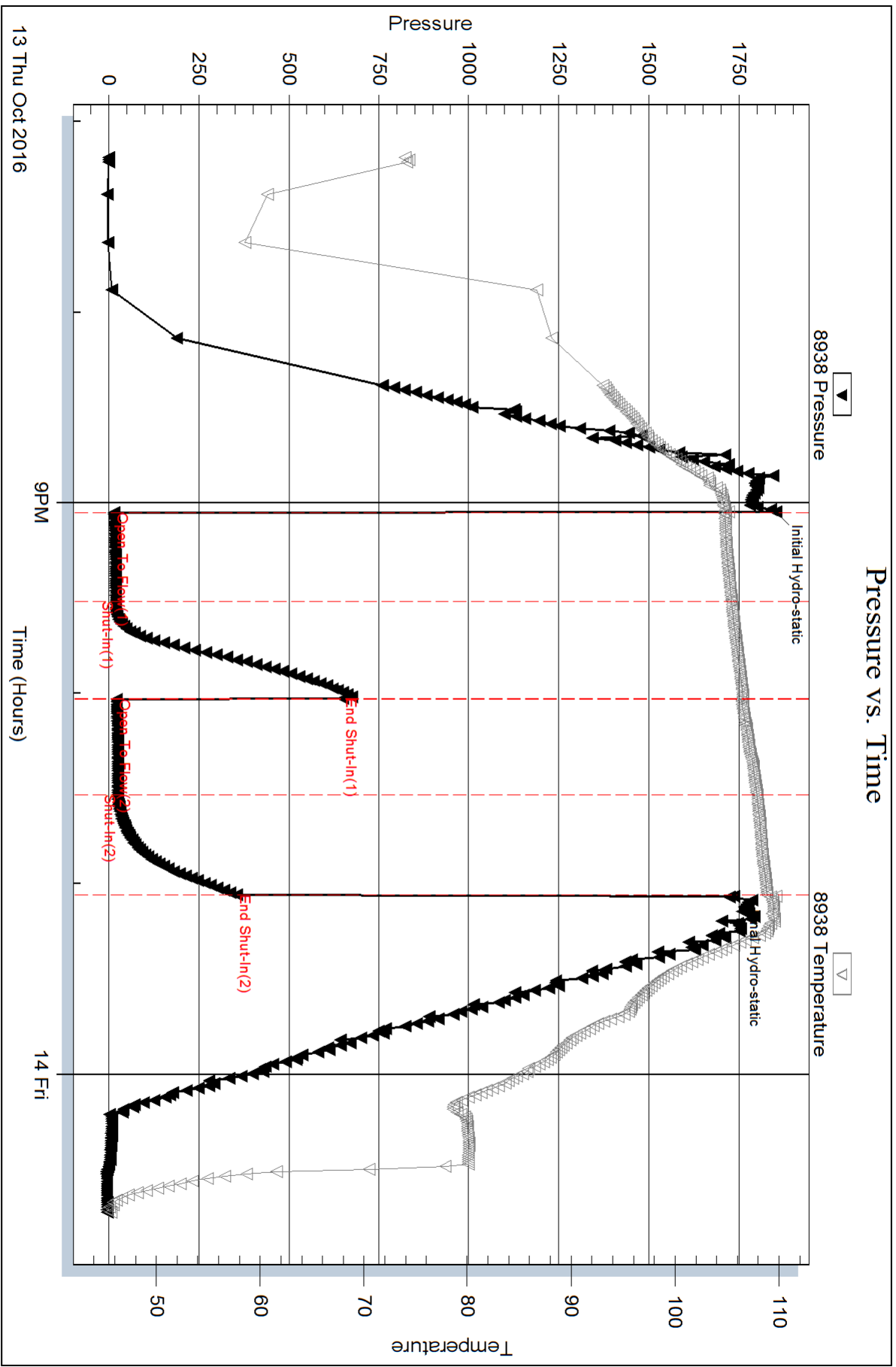
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



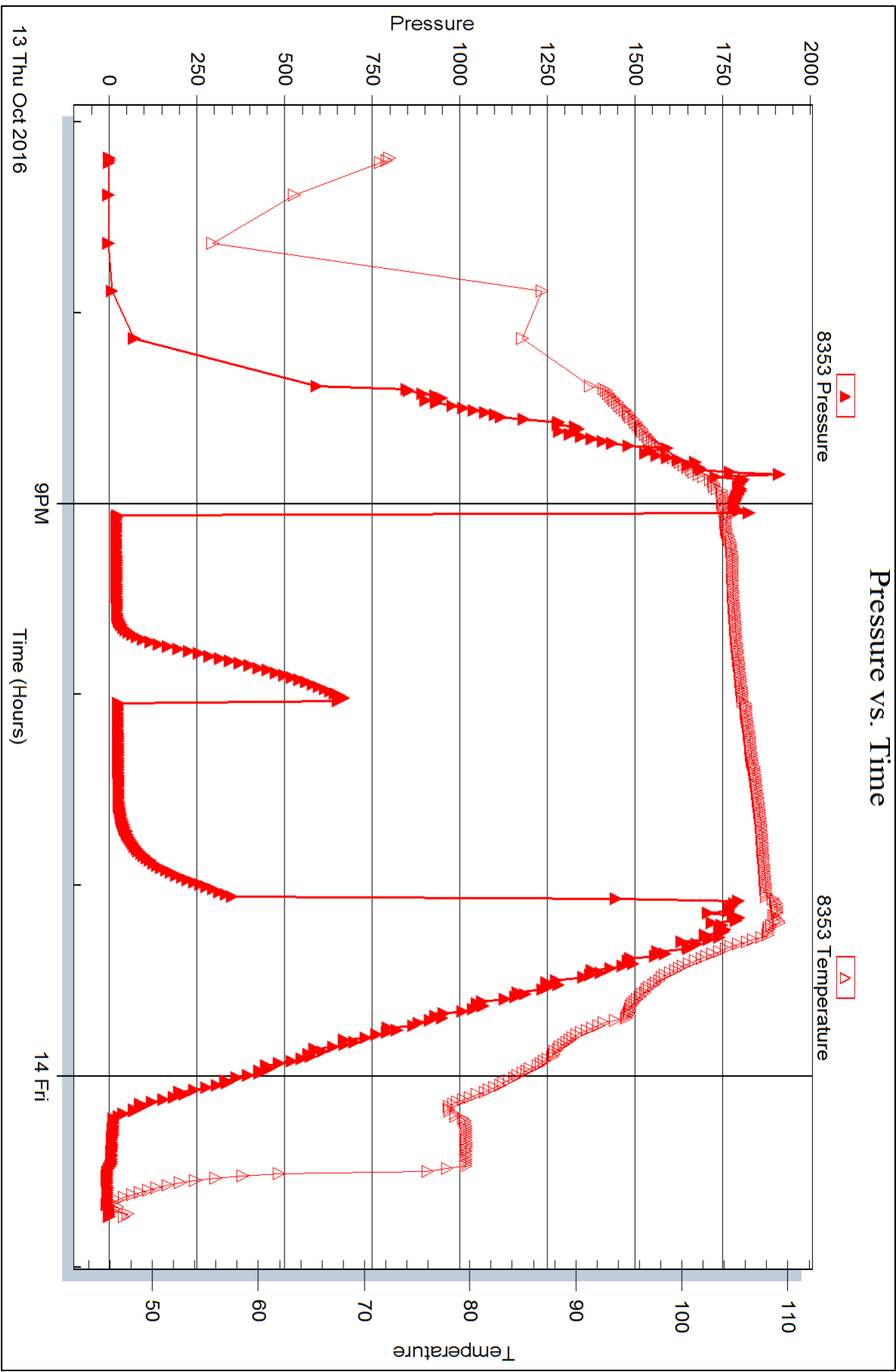
Serial #: 8353

Outside

Dow n/n-g-Nelson Oil Co

Gerber #1-35

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 63488

Printed: 2016.10.17 @ 10:44:03



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.14 @ 20:54:00

End Date: 2016.10.15 @ 04:14:30

Job Ticket #: 63489 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:43:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:45

Time Test Ended: 04:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3993.00 ft (KB) To 4033.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @RunDepth: 175.74 psig @ 3994.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.14

End Date:

2016.10.15

Last Calib.:

2016.10.15

Start Time: 20:54:15

End Time:

04:14:30

Time On Btm:

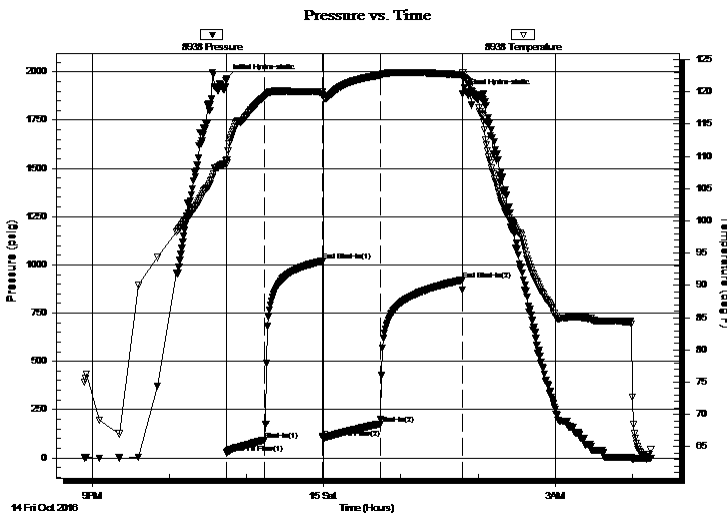
2016.10.14 @ 22:44:30

Time Off Btm:

2016.10.15 @ 01:48:15

TEST COMMENT: 30-IF-BOB in 8 minutes
45-ISI-Fair Blow ; built to 2"
45-FF-BOB in 6 minutes
60-FSI-Fair Blow ; built to 1 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.03	109.35	Initial Hydro-static
1	25.84	108.94	Open To Flow (1)
30	92.53	119.26	Shut-In(1)
75	1018.30	119.99	End Shut-In(1)
75	101.84	119.45	Open To Flow (2)
120	175.74	122.58	Shut-In(2)
184	921.44	122.64	End Shut-In(2)
184	1886.80	122.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMO 10%G 15%M 75%O	0.97
350.00	GO 15% G 85% O	4.91
0.00	380 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

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:45

Time Test Ended: 04:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3993.00 ft (KB) To 4033.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8353 Outside

Press @RunDepth: psig @ 3994.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.14

End Date:

2016.10.15

Last Calib.:

2016.10.15

Start Time: 20:54:15

End Time:

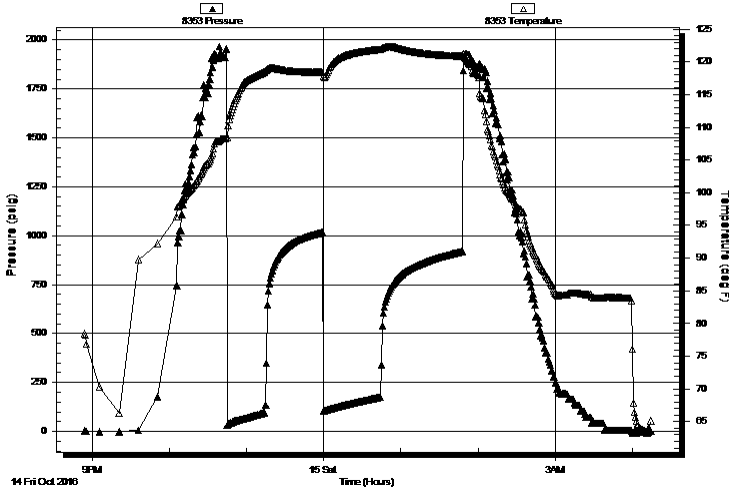
04:14:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB in 8 minutes
45-ISI-Fair Blow ; built to 2"
45-FF-BOB in 6 minutes
60-FSI-Fair Blow ; built to 1 1/2"

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
90.00	GMO 10%G 15%M 75%O	0.97
350.00	GO 15% G 85% O	4.91
0.00	380 GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3993.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Packer	5.00			3989.00	20.00 Bottom Of Top Packer
Packer	4.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	8353	Outside	3994.00	
Recorder	0.00	8938	Inside	3994.00	
Perforations	35.00			4029.00	
Perforations	4.00			4033.00	40.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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
90.00	GMO 10%G 15%M 75%O	0.971
350.00	GO 15% G 85% O	4.910
0.00	380 GIP	0.000

Total Length: 440.00 ft Total Volume: 5.881 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

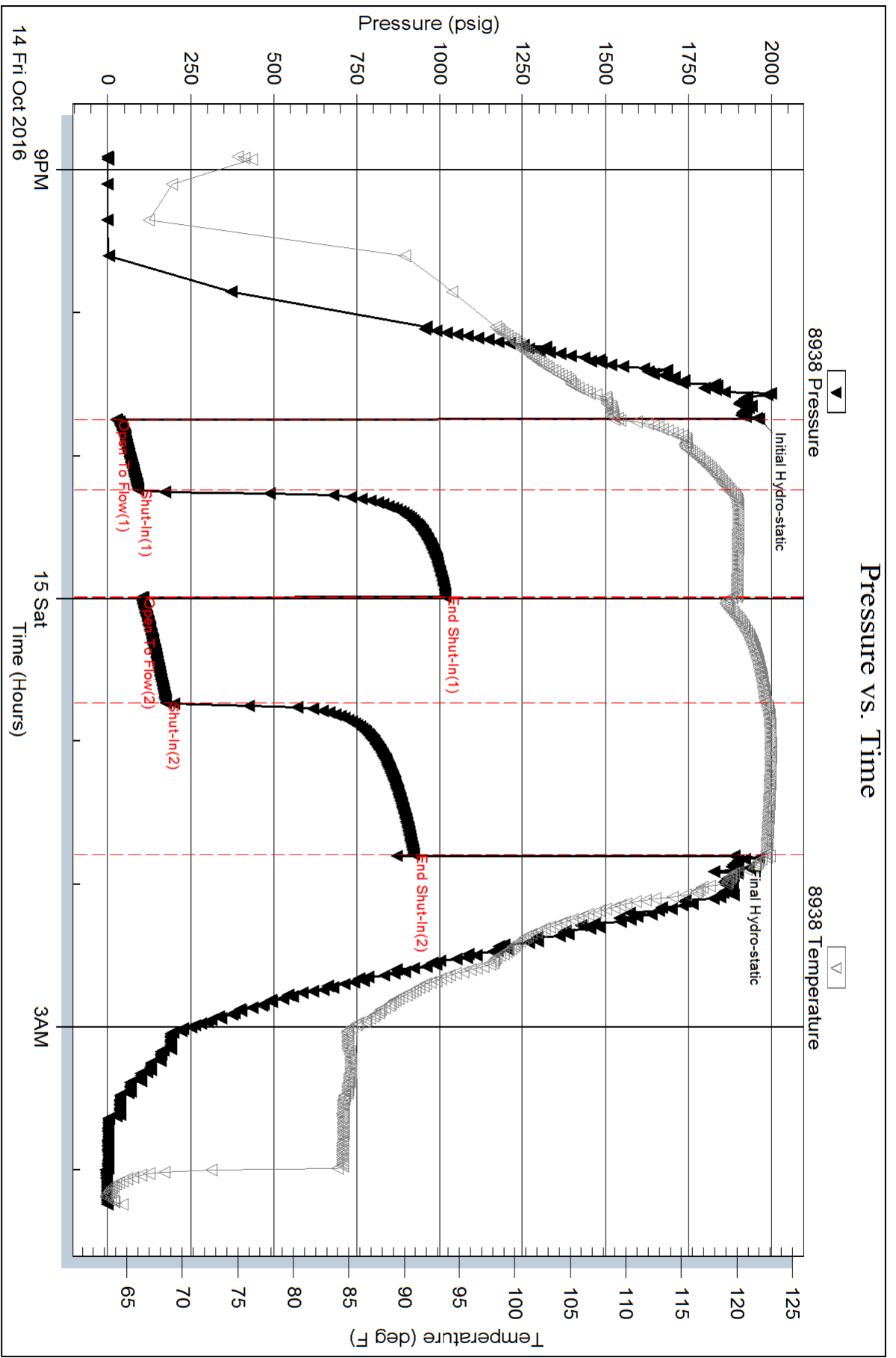
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Inside

Dow nging-Nelson Oil Co

Gerber #1-35

DST Test Number: 3

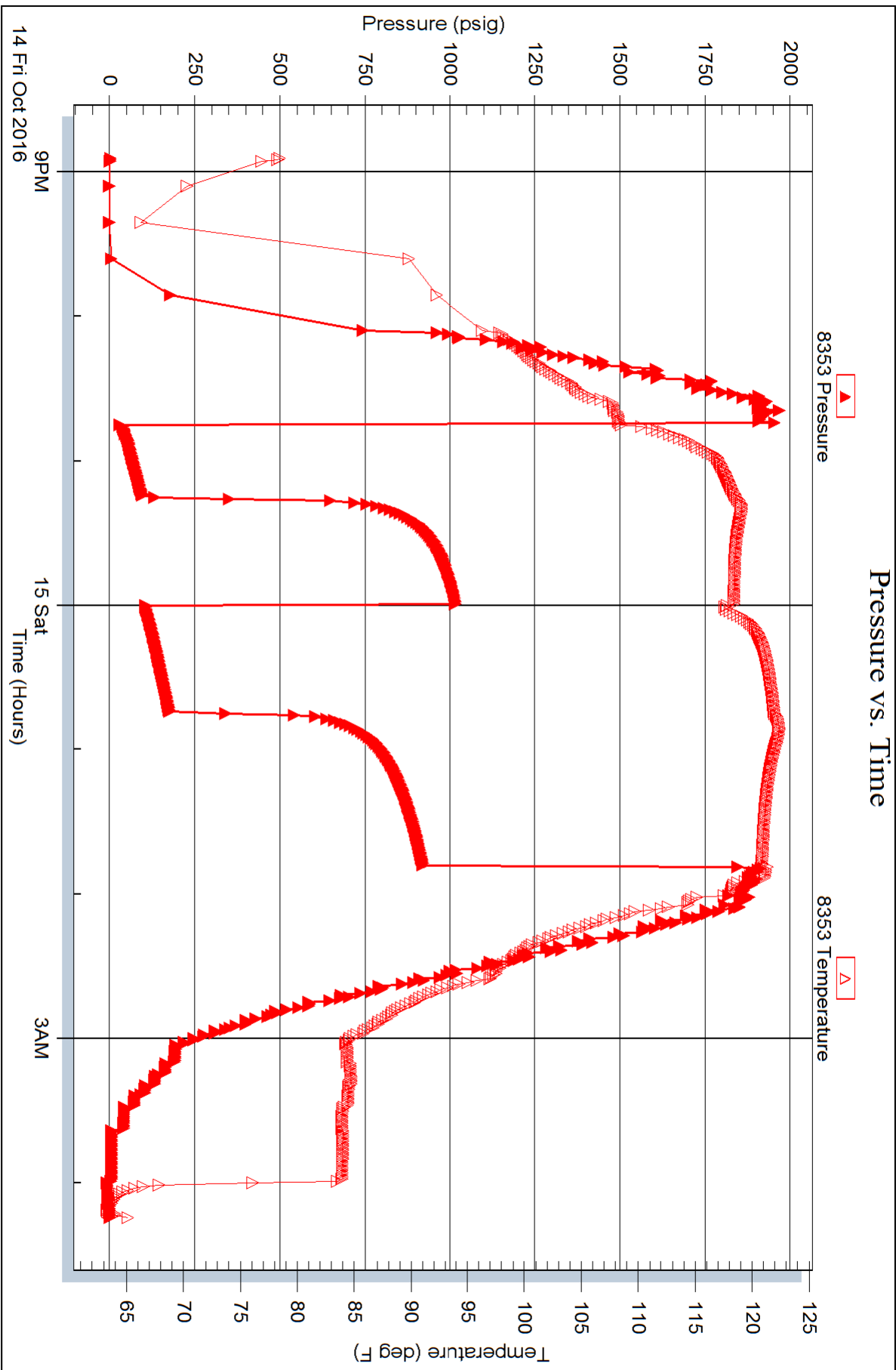


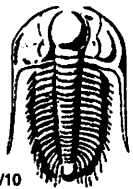
Serial #: 8353

Outside Dow nting-Nelson Oil Co

Gerber #1-35

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63487

Well Name & No. Gerber #1-35 Test No. 1 Date 10/13/2014
 Company DNOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Drlg #3
 Location: Sec. 35 Twp. 13S Rge. 21W Co. Trego State KS

Interval Tested 3714-3780 Zone Tested LKC 'E'
 Anchor Length 16 Drill Pipe Run 3669 Mud Wt. 9
 Top Packer Depth 3709 Drill Collars Run 32 Vis 46
 Bottom Packer Depth 3714 Wt. Pipe Run - WL 8
 Total Depth 3780 Chlorides 4000 ppm System LCM 2 1/2#

Blow Description IF - BOB in 13 mins
ISI - Weak surface Blow; built to 1/4 inch
FE - Strong Blow; Built to 8 inches
FST - Very weak surface Blow

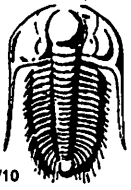
Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Mud</u>		<u>70%</u>	<u>30</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 315 BHT 115 Gravity - API RW .75 @ 48 °F Chlorides 12,000 ppm
 Test 1050 T-On Location 2:20
 Jars _____ T-Started 3:26
 Safety Joint _____ T-Open 5:07
 Circ Sub _____ T-Pulled 7:37
 Hourly Standby _____ T-Out 9:20
 Mileage 56 RT ⁴² Comments _____
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1092

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

Sub Total 0
 Total 1092
 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Jacob
 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. 63488

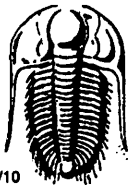
Well Name & No. Gerber # 1-35 Test No. 2 Date 10/13/2016
 Company DNOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Drily #3
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Trego State KS

Interval Tested 3772 - 3805 Zone Tested LKC 'H'
 Anchor Length 33 Drill Pipe Run 3739 Mud Wt. 8.9
 Top Packer Depth 3767 Drill Collars Run 32 Vis 53
 Bottom Packer Depth 3772 Wt. Pipe Run - WL 7.6
 Total Depth 3805 Chlorides 4000 ppm System LCM 2#
 Blow Description IF - Very Weak Surface Blow, built to 1/2 inch
ISI - No Blow
FF - No Blow
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mod w/oil specs</u>			<u>100</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 15 BHT 109⁶ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1852 Test 1050 T-On Location 18:22
 (B) First Initial Flow 15 Jars _____ T-Started 19:11
 (C) First Final Flow 20 Safety Joint _____ T-Open 21:03
 (D) Initial Shut-In 650 Circ Sub _____ T-Pulled 23:04
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 00:44 10/14/2016
 (F) Second Final Flow 25 Mileage 56 RT ⁴² Comments _____
 (G) Final Shut-In 355 Sampler _____
 (H) Final Hydrostatic 1736 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 1092
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 30 Sub Total 1092

Approved By _____ Our Representative Spencer J. Stahl
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 Thank you!



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63489

Well Name & No. Gerber # 1-35 Test No. 3 Date 10/14/2016
 Company DNOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Rig #3
 Location: Sec. 35 Twp. 13 Rge. 21 Co. Trego State KS

Interval Tested 3993 - 4033 Zone Tested Macmston
 Anchor Length 40 Drill Pipe Run 3961 Mud Wt. 9.2
 Top Packer Depth 3988 Drill Collars Run 32 Vis 49
 Bottom Packer Depth 3993 Wt. Pipe Run - WL 8
 Total Depth 4033 Chlorides 4500 ppm System LCM 2#

Blow Description IE - BOB in 8 minutes
ISI - Fair Blow, built to 2 inches
FF - BOB in 6 minutes
FSI - Fair Blow, built to 1 1/2 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>380</u>	<u>GIP</u>				
<u>350</u>	<u>GO</u>	<u>15</u>	<u>85</u>		
<u>90</u>	<u>GMO</u>	<u>10</u>	<u>75</u>	<u>15</u>	

Rec Total 440 BHT 122 Gravity 33 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1963 Test 1150 T-On Location 20:20
 (B) First Initial Flow 25 Jars _____ T-Started 20:54
 (C) First Final Flow 92 Safety Joint _____ T-Open 22:45
 (D) Initial Shut-In 1018 Circ Sub _____ T-Pulled 01:45 10/15/2016
 (E) Second Initial Flow 101 Hourly Standby _____ T-Out 04:15
 (F) Second Final Flow 175 Mileage 56 RT ⁴² Comments _____
 (G) Final Shut-In 921 Sampler _____
 (H) Final Hydrostatic 1886 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1192
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1192

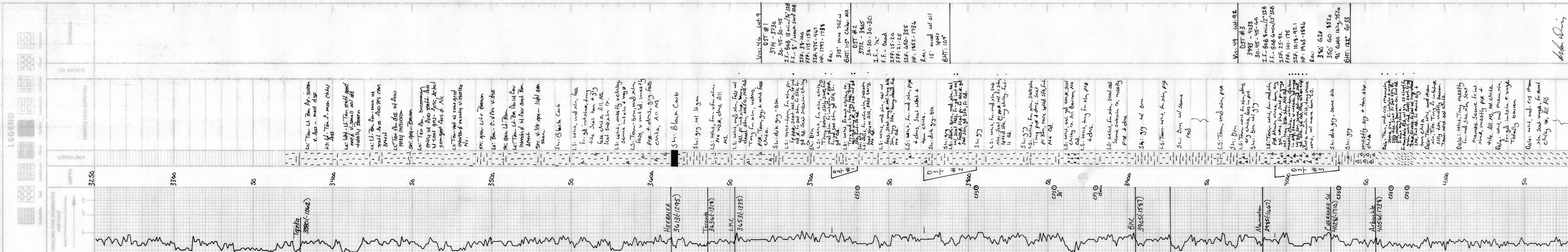
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Thank you!

Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Downing-Nelson Oil Co., Inc.		Elevation	
Lease Gerber No. 1-35		KB	2318
API # 15-195-23010-0000		DF	2316
Field Agmar		GL	2310
Location 1025' FSL & 465' FWL		Casing Record	
Sec. 35 Twp. 13s Rge. 21w		Surface	
County Trego State Kansas		Production	
Formation		Electrical Surveys	
Top Anhydrite	Sample tops	Log Tops	Datum
Base Anhydrite			Struct Comp
Topoka	3380	3380	-1062
Heebner	3613	3616	-1298
Toronto	3636	3638	-1320
LKC	3653	3655	-1337
BKC	3905	3907	-1589
Marmaton	3985	3988	-1670
Cherokee Sh	4028	4030	-1712
Arbuckle	4056	4058	-1740
Total Depth	4180	4181	-1863
Reference Well For Structural Comparison		Dakota Resources, Inc.	
Pflannstiel #2		NE-SW-SW	
		Sec. 35-13s-21w	

Drilling Contractor	Discovery Drilling, Rig #3	
Commenced	10-8-16	Completed
Samples Saved From	3350	To
Drilling Time Kept From	3250	To
Samples Examined From	3350	To
Geological Supervision From	3350	To

Summary and Recommendations
 Due to DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Respectfully Submitted,
 Marc A. Downing



M.A. Downing