



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1293167
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: _____

1293167

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

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

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

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

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Lisa 1-25
Doc ID	1293167

Tops

Name	Top	Datum
Top Anhydrite	1322'	+760
Base Anhydrite	1368'	+714
Topeka	3098'	-1016
Heebner	3356'	-1274
Toronto	3374'	-1292
LKC	3402'	-1320
BKC	3641'	-1559
Arbuckle	3710'	-1628



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Lisa #1-25

25 14s 19w Ellis,KS

Start Date: 2016.02.27 @ 01:11:00

End Date: 2016.02.27 @ 08:32:00

Job Ticket #: 64761 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.03.01 @ 11:28:37



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.02.27 @ 01:11:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:51:15

Time Test Ended: 08:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: 3407.00 ft (KB) To 3441.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3441.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289

Outside

Press@RunDepth: 252.88 psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.27

End Date:

2016.02.27

Last Calib.:

2016.02.27

Start Time: 01:11:02

End Time:

08:32:00

Time On Btm:

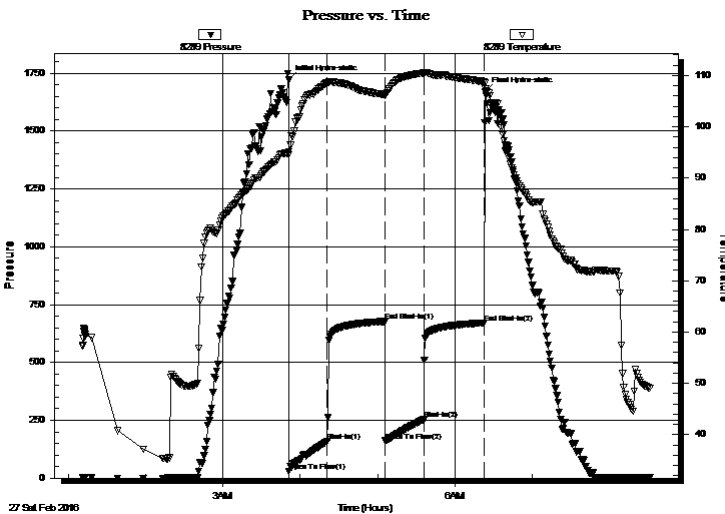
2016.02.27 @ 03:51:00

Time Off Btm:

2016.02.27 @ 06:23:45

TEST COMMENT: 30-IF- BOB in 12 min.
45-ISI- No Blow
30-FF- BOB in 12 1/2 min.
45-FSI- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.91	95.07	Initial Hydro-static
1	29.84	94.55	Open To Flow (1)
30	158.39	108.57	Shut-In(1)
75	677.23	106.27	End Shut-In(1)
75	161.27	106.01	Open To Flow (2)
105	252.88	110.46	Shut-In(2)
152	671.00	108.76	End Shut-In(2)
153	1668.52	107.48	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
490.00	MCW 10% m 90% w	6.59

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis, KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.02.27 @ 01:11:00

GENERAL INFORMATION:

Formation: **LKC " C "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:51:15

Time Test Ended: 08:32:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jim Svaty

Unit No: 76

Interval: **3407.00 ft (KB) To 3441.00 ft (KB) (TVD)**

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3441.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: psig @ 3409.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.27 End Date: 2016.02.27

Last Calib.: 2016.02.27

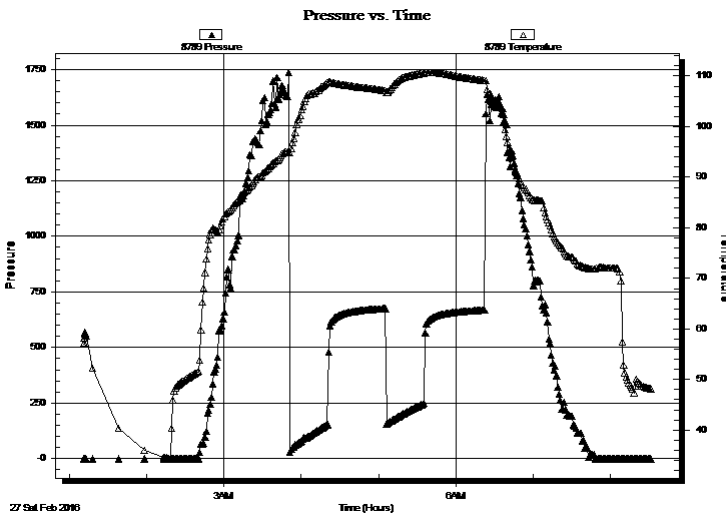
Start Time: 01:11:02 End Time: 08:32:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF- BOB in 12 min.
45-ISI- No Blow
30-FF- BOB in 12 1/2 min.
45-FSI- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
490.00	MCW 10% m 90% w	6.59

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.02.27 @ 01:11:00

Tool Information

Drill Pipe:	Length: 3360.00 ft	Diameter: 3.80 inches	Volume: 47.13 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 47.28 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	3407.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	34.00 ft				
Tool Length:	55.00 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			3387.00	
Shut In Tool	5.00			3392.00	
Hydraulic tool	5.00			3397.00	
Packer	5.00			3402.00	21.00 Bottom Of Top Packer
Packer	5.00			3407.00	
Stubb	1.00			3408.00	
Perforations	1.00			3409.00	
Recorder	0.00	8789	Inside	3409.00	
Recorder	0.00	8289	Outside	3409.00	
Blank Spacing	29.00			3438.00	
Bullnose	3.00			3441.00	34.00 Bottom Packers & Anchor

Total Tool Length: 55.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64761

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.02.27 @ 01:11:00

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:

150000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.56 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2750.00 ppm

Filter Cake: 2.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
490.00	MCW 10%m 90%w	6.591

Total Length: 490.00 ft Total Volume: 6.591 bbl

Num Fluid Samples: 0

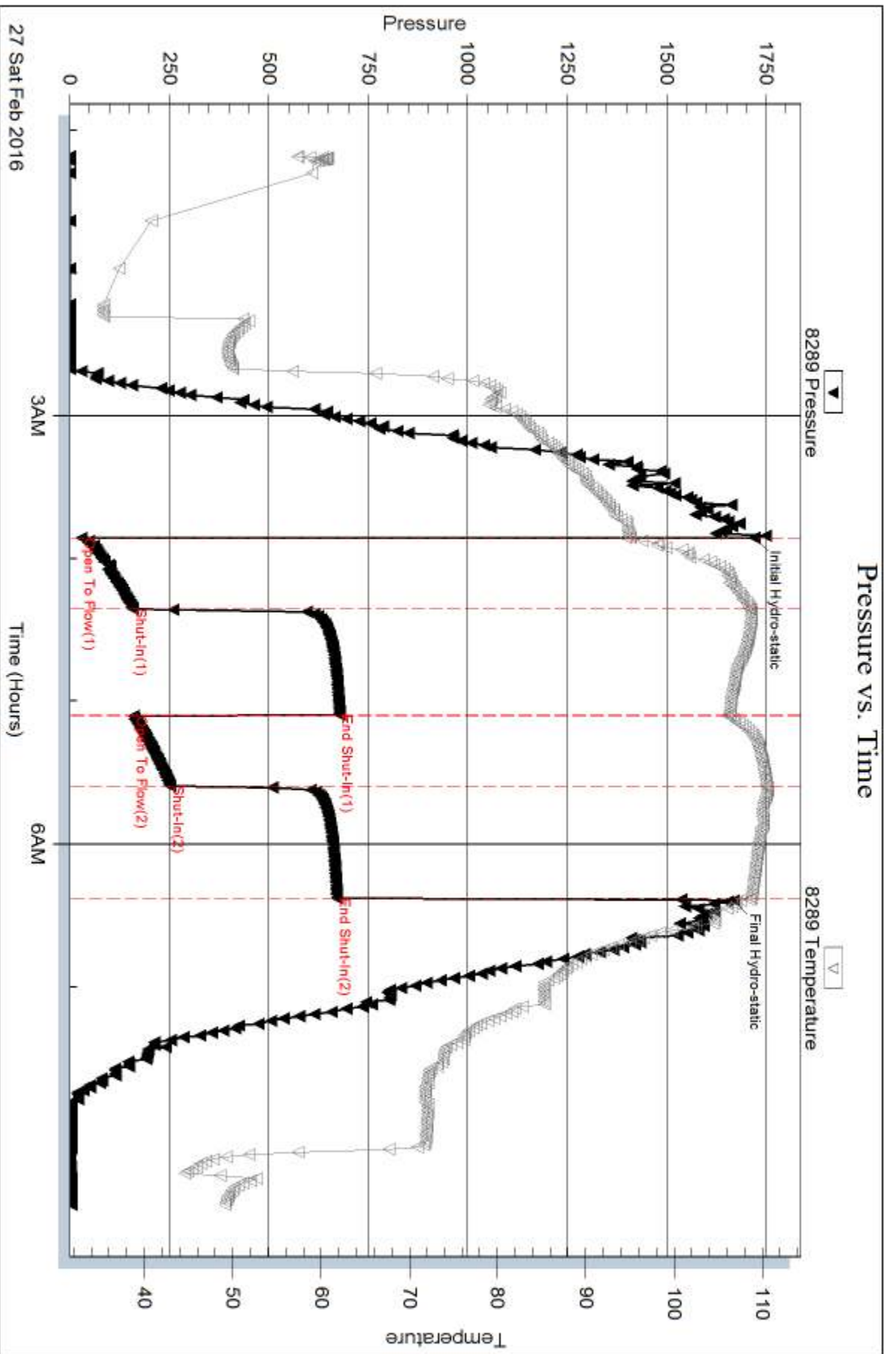
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .100 @ 43



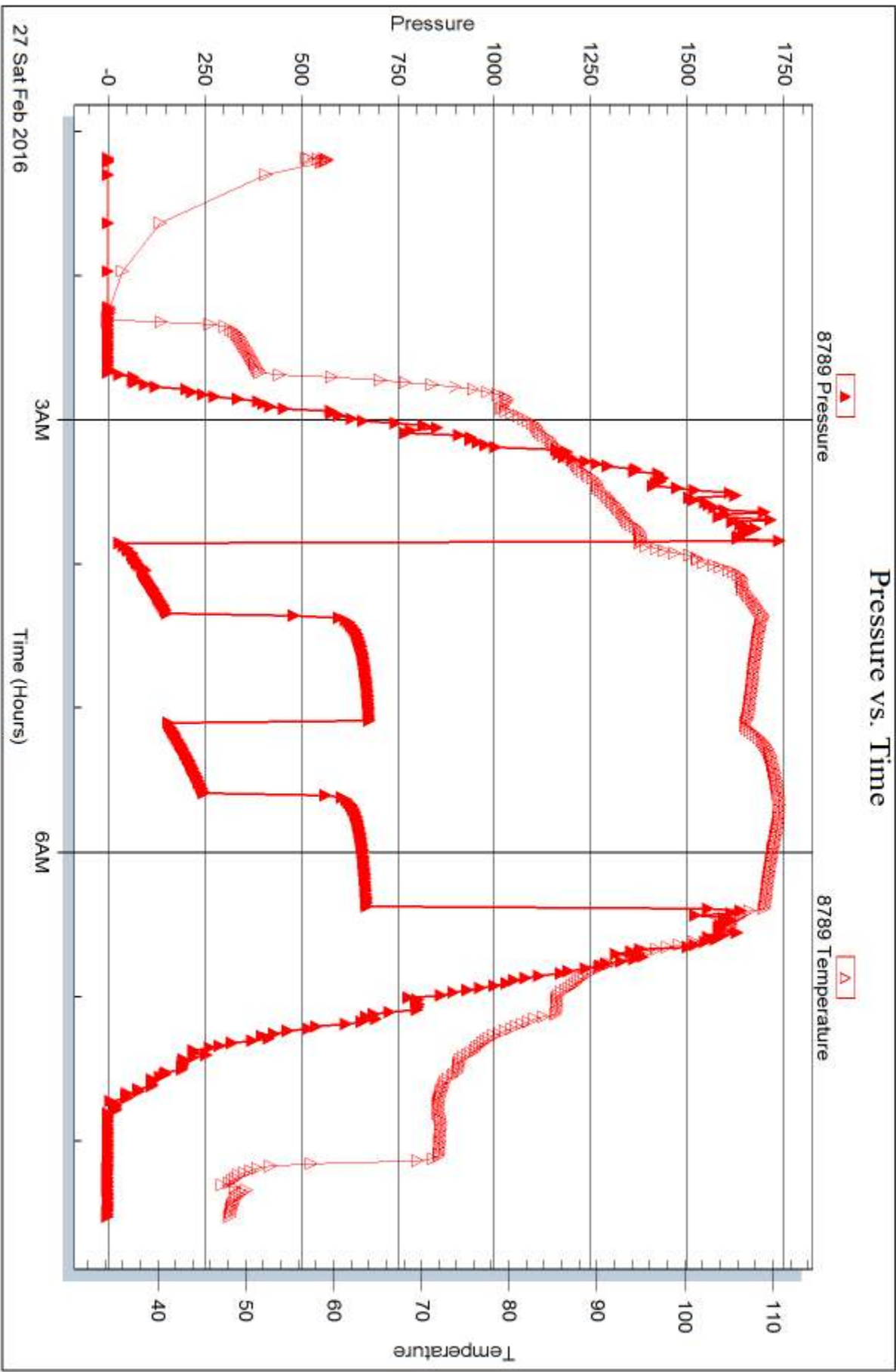
Serial #: 8789

Inside

Dow n/g-Nelson Oil Co Inc

Lisa #1-25

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64761

Printed: 2016.03.01 @ 11:28:39



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Lisa #1-25

25 14s 19w Ellis,KS

Start Date: 2016.02.28 @ 06:16:00

End Date: 2016.02.28 @ 13:20:00

Job Ticket #: 64762 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.01 @ 11:28:12



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64762

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 06:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:14:30

Time Test Ended: 13:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3687.00 ft (KB) To 3731.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3731.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789

Inside

Press@RunDepth: 98.70 psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.28

End Date:

2016.02.28

Last Calib.:

2016.02.28

Start Time: 06:16:02

End Time:

13:20:00

Time On Btm:

2016.02.28 @ 08:14:00

Time Off Btm:

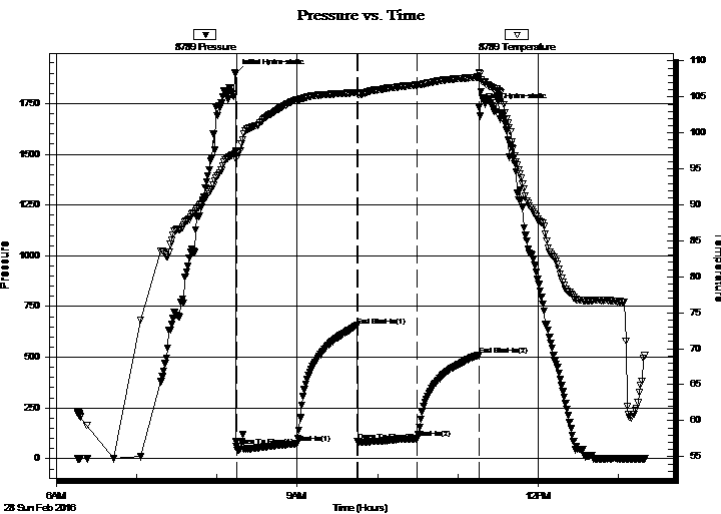
2016.02.28 @ 11:15:45

TEST COMMENT: 45-IF- BOB in 21 min.

45-ISI- No Blow

45-FF- Surface Blow Building to 3/4" In 4 min. Died Back in 8 min. Flushed FF-Surface Blow for 5 min. Then Died.

45-FSI- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1899.28	97.51	Initial Hydro-static
1	59.74	97.17	Open To Flow (1)
46	73.98	104.59	Shut-In(1)
91	655.91	105.62	End Shut-In(1)
91	83.55	105.39	Open To Flow (2)
136	98.70	106.67	Shut-In(2)
182	509.60	107.77	End Shut-In(2)
182	1729.97	108.42	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	CO 100%	1.54
75.00	OCM 5%o 95%m	1.05

* 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 Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64762

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 06:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:14:30

Time Test Ended: 13:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3687.00 ft (KB) To 3731.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3731.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 **Outside**

Press@RunDepth: psig @ 3695.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.28

End Date:

2016.02.28

Last Calib.:

2016.02.28

Start Time: 06:16:02

End Time:

13:20:00

Time On Btm:

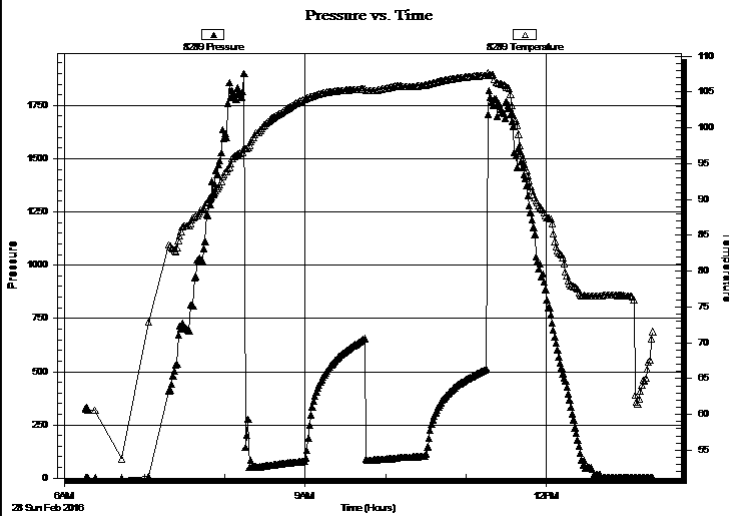
Time Off Btm:

TEST COMMENT: 45-IF- BOB in 21 min.

45-ISI- No Blow

45-FF- Surface Blow Building to 3/4" In 4 min. Died Back in 8 min. Flushed FF-Surface Blow for 5 min. Then Died.

45-FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
130.00	CO 100%	1.54
75.00	OCM 5%o 95%m	1.05

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64762

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 06:16:00

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.80 inches	Volume: 51.13 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3687.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	44.00 ft			
Tool Length:	65.00 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			3667.00	
Shut In Tool	5.00			3672.00	
Hydraulic tool	5.00			3677.00	
Packer	5.00			3682.00	21.00 Bottom Of Top Packer
Packer	5.00			3687.00	
Stubb	1.00			3688.00	
Perforations	6.00			3694.00	
Change Over Sub	1.00			3695.00	
Recorder	0.00	8789	Inside	3695.00	
Recorder	0.00	8289	Outside	3695.00	
Blank Spacing	32.00			3727.00	
Change Over Sub	1.00			3728.00	
Bullnose	3.00			3731.00	44.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64762

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 06:16:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.95 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 2.50 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
130.00	CO 100%	1.541
75.00	OCM 5%o 95%m	1.052

Total Length: 205.00 ft

Total Volume: 2.593 bbl

Num Fluid Samples: 0

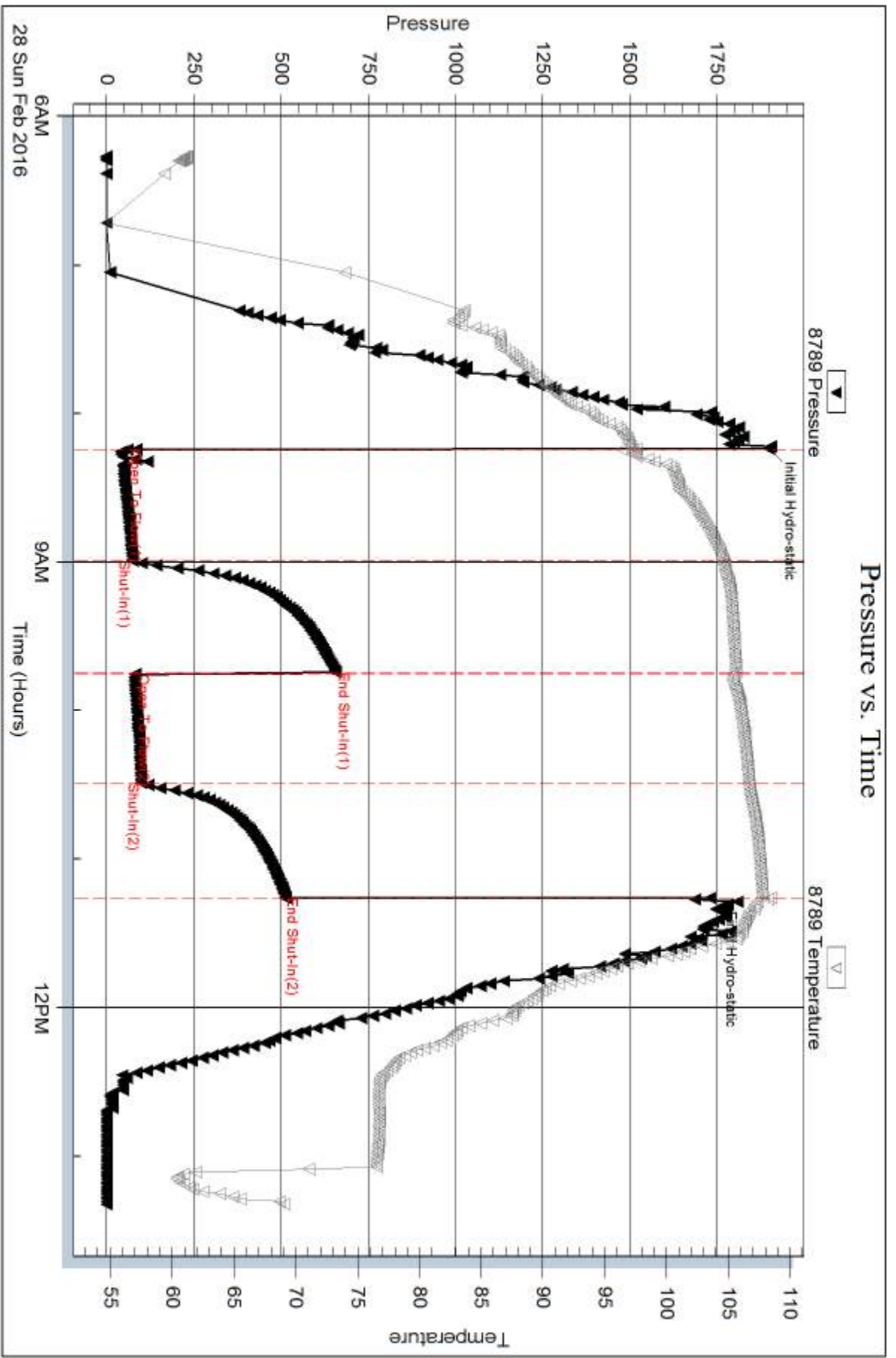
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

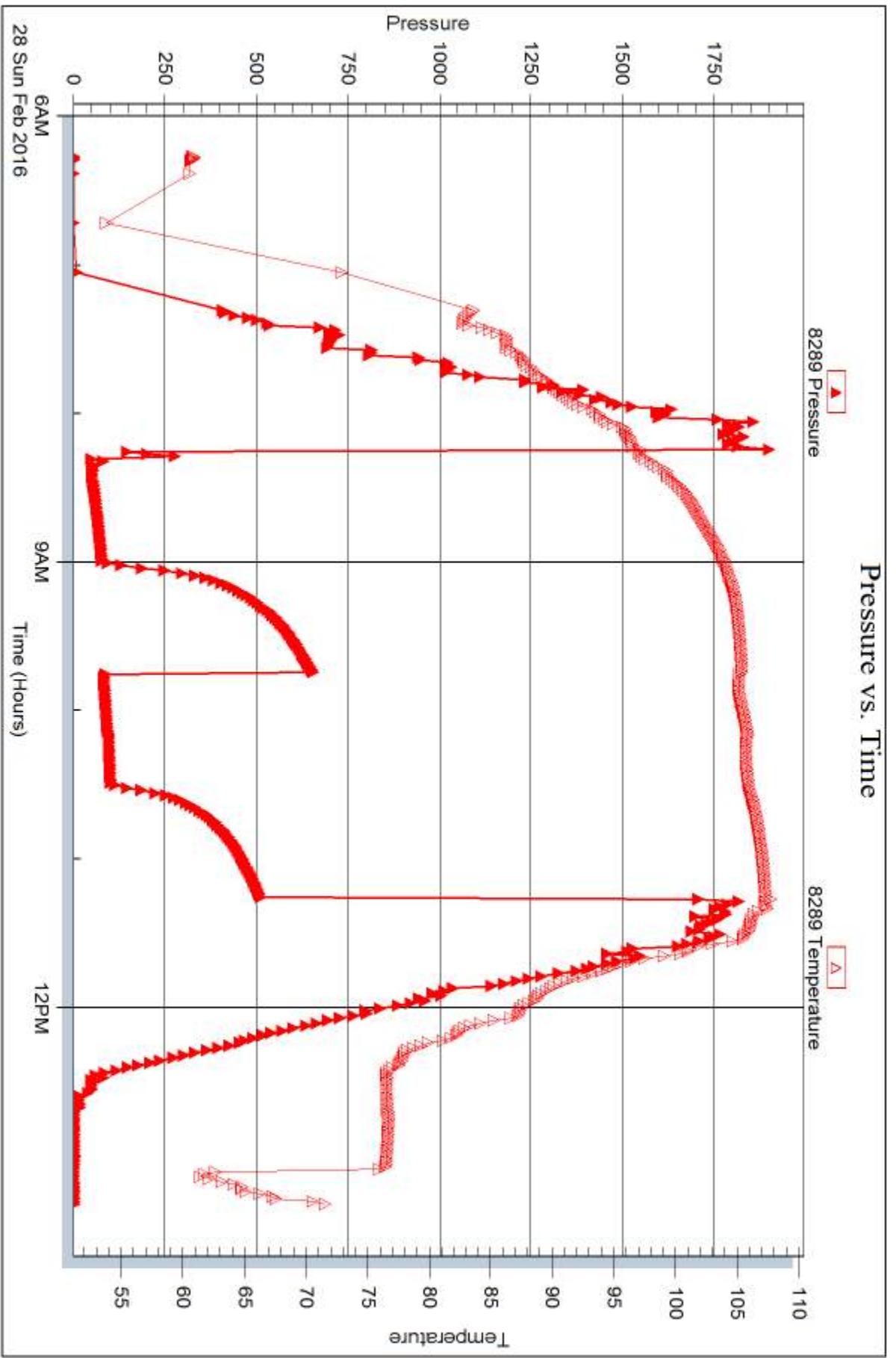


Serial #: 8289

Outside Dow nng-Nelson Oil Co Inc

Lisa #1-25

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Lisa #1-25

25 14s 19w Ellis,KS

Start Date: 2016.02.28 @ 18:50:00

End Date: 2016.02.29 @ 02:43:00

Job Ticket #: 64763 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.03.01 @ 11:27:45



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 18:50:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:15

Time Test Ended: 02:43:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3731.00 ft (KB) To 3739.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3739.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 535.32 psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.28

End Date:

2016.02.29

Last Calib.:

2016.02.29

Start Time: 18:50:02

End Time:

02:43:00

Time On Btm:

2016.02.28 @ 21:01:00

Time Off Btm:

2016.02.29 @ 00:02:00

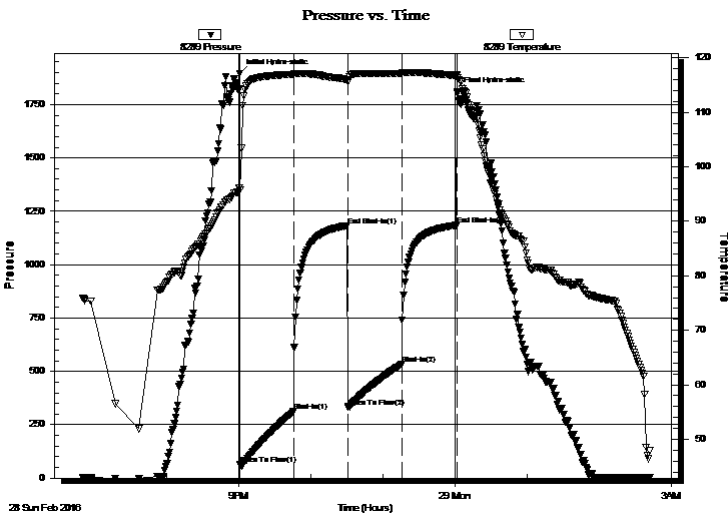
TEST COMMENT: 45-IF- BOB in 8 1/2 min Died Back in 31 min. Final Blow 7"

45-ISI- No Blow

45-FF- Surface Blow Building to 9 1/4" In 16 min. Died Back in 22 min. Final Blow 2"

45-FSI- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1896.50	96.11	Initial Hydro-static
1	64.55	95.84	Open To Flow (1)
45	312.93	116.95	Shut-In(1)
90	1183.38	115.98	End Shut-In(1)
90	334.47	115.58	Open To Flow (2)
135	535.32	117.14	Shut-In(2)
181	1184.93	116.77	End Shut-In(2)
181	1810.86	116.85	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
800.00	Water 100%	10.94
320.00	Oil Speck Water 100%	4.49
40.00	CO 100%	0.56

* 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 Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 18:50:00

Tool Information

Drill Pipe:	Length: 3709.00 ft	Diameter: 3.80 inches	Volume: 52.03 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 52.18 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3731.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	8.00 ft				
Tool Length:	29.00 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			3711.00	
Shut In Tool	5.00			3716.00	
Hydraulic tool	5.00			3721.00	
Packer	5.00			3726.00	21.00 Bottom Of Top Packer
Packer	5.00			3731.00	
Stubb	1.00			3732.00	
Recorder	0.00	8789	Inside	3732.00	
Recorder	0.00	8289	Outside	3732.00	
Perforations	4.00			3736.00	
Bullnose	3.00			3739.00	8.00 Bottom Packers & Anchor
Total Tool Length:	29.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64763

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.02.28 @ 18:50:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

46000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
800.00	Water 100%	10.940
320.00	Oil Speck Water 100%	4.489
40.00	CO 100%	0.561

Total Length: 1160.00 ft Total Volume: 15.990 bbl

Num Fluid Samples: 0

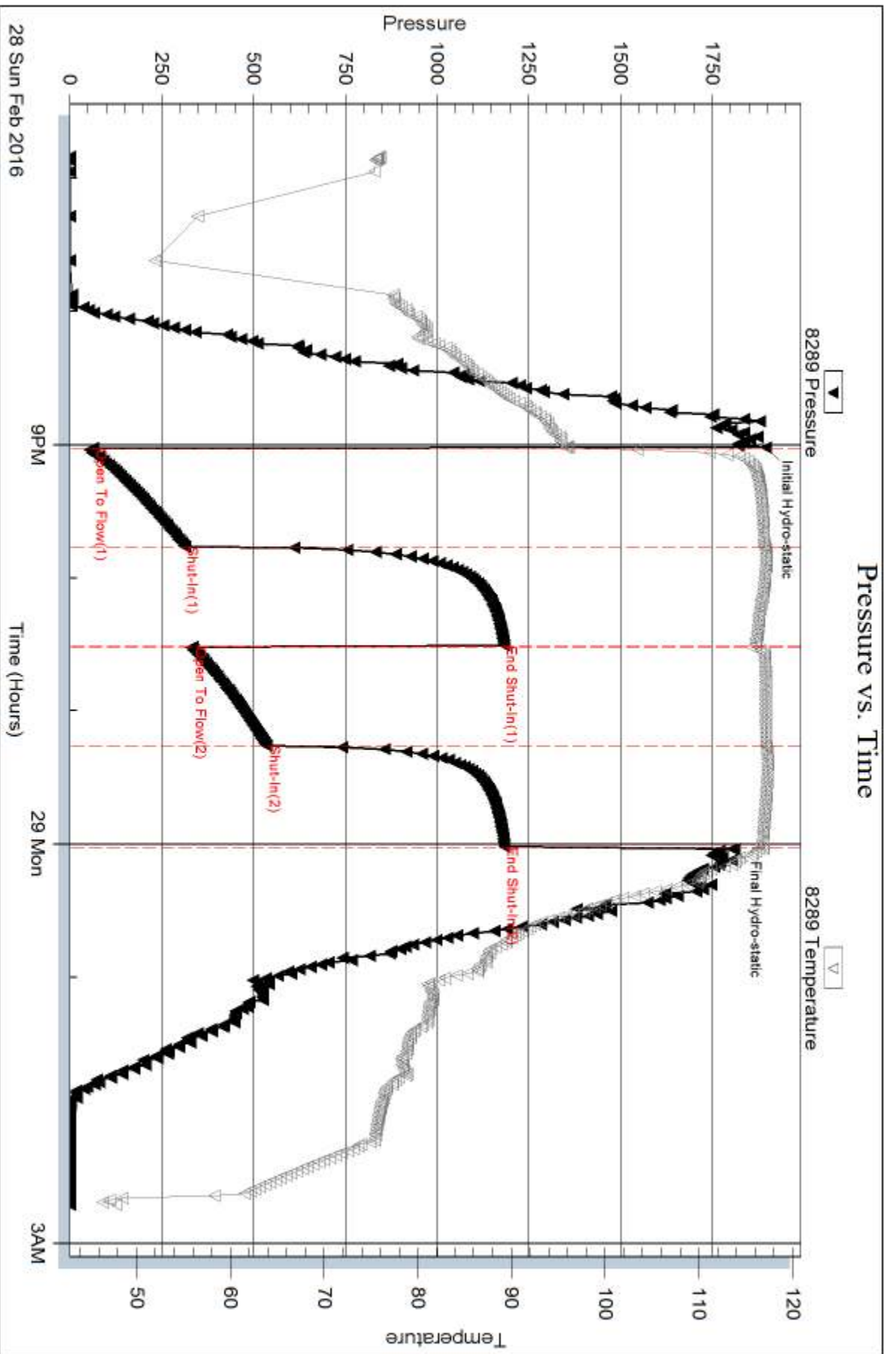
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .275 @ 41



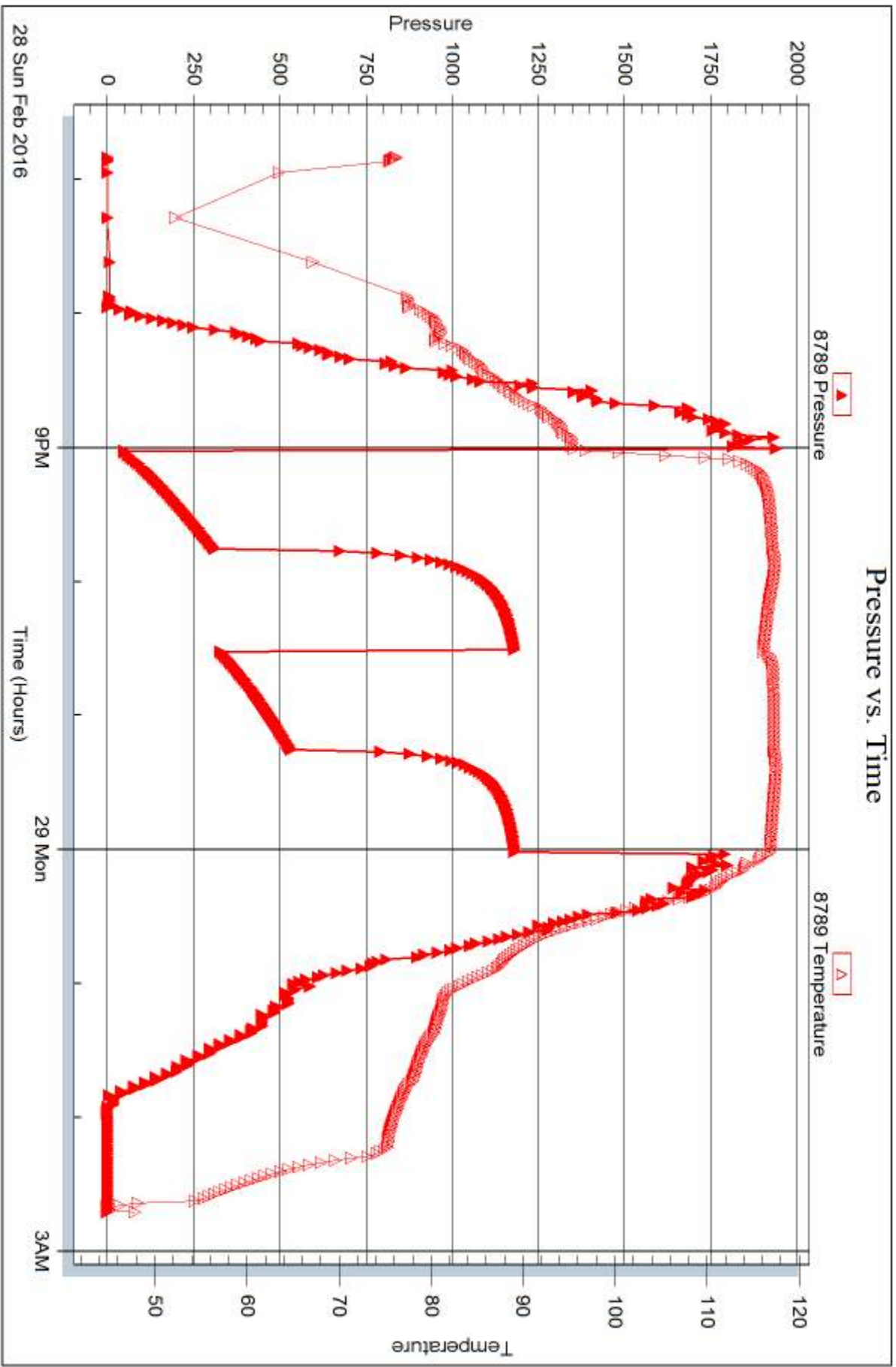
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Inside

Dow nging-Nelson Oil Co Inc

Lisa #1-25

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64763

Printed: 2016.03.01 @ 11:27:47



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Lisa #1-25

25 14s 19w Ellis,KS

Start Date: 2016.02.29 @ 13:30:00

End Date: 2016.02.29 @ 20:30:00

Job Ticket #: 64764 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.03.01 @ 11:26:51



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64764

DST#: 4

ATTN: Marc Dow ning

Test Start: 2016.02.29 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:00

Time Test Ended: 20:30:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3689.00 ft (KB) To 3734.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3789.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8289 Outside

Press@RunDepth: 94.48 psig @ 3692.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.29 End Date: 2016.02.29

Last Calib.: 2016.02.29

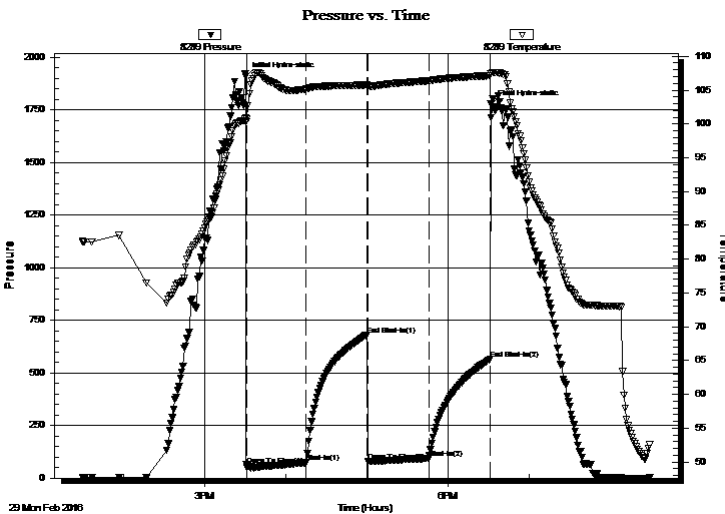
Start Time: 13:30:02 End Time: 20:30:00

Time On Btm: 2016.02.29 @ 15:30:45

Time Off Btm: 2016.02.29 @ 18:31:45

TEST COMMENT: 45-IF- Surface Blow Building to 2 1/2in. In 3min. Died Back in 8min.
45-ISI- No Blow
45-FF- 3/4in Blow in 2min. Died Back in 7min.
45-FSI- No Blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1910.68	100.90	Initial Hydro-static
1	63.02	100.36	Open To Flow (1)
45	73.31	105.16	Shut-In(1)
90	681.23	105.77	End Shut-In(1)
90	80.51	105.59	Open To Flow (2)
135	94.48	106.38	Shut-In(2)
181	564.08	107.13	End Shut-In(2)
181	1777.14	107.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OWCM 20%o 20%w 60%m	1.49
10.00	CO 100%	0.14

* 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 Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64764

DST#: 4

ATTN: Marc Dow ning

Test Start: 2016.02.29 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:00

Time Test Ended: 20:30:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3689.00 ft (KB) To 3734.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3789.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6668 Below (Straddle)

Press@RunDepth: psig @ 3753.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.29

End Date:

2016.02.29

Last Calib.:

2016.02.29

Start Time: 13:30:02

End Time:

20:29:45

Time On Btm:

Time Off Btm:

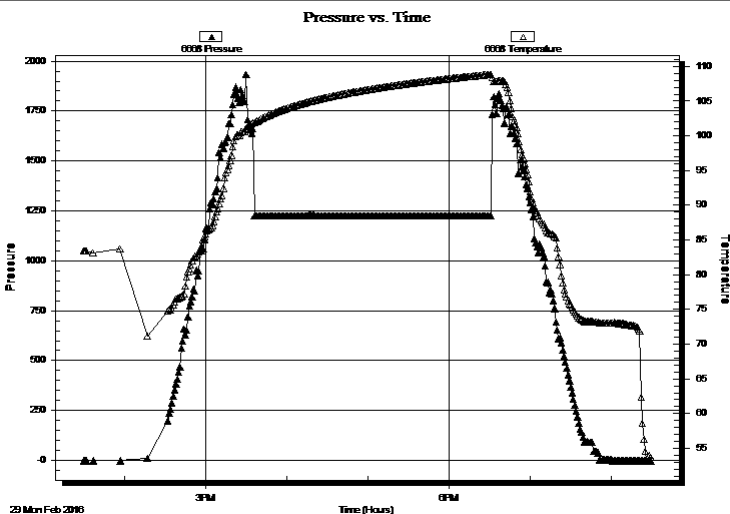
TEST COMMENT: 45-IF- Surface Blow Building to 2 1/2in. In 3min. Died Back in 8min.

45-ISI- No Blow

45-FF- 3/4in Blow in 2min. Died Back in 7min.

45-FSI- No Blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OWCM 20%o 20%w 60%m	1.49
10.00	CO 100%	0.14

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 Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64764

DST#: 4

ATTN: Marc Dow ning

Test Start: 2016.02.29 @ 13:30:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:31:00

Time Test Ended: 20:30:00

Test Type: Conventional Straddle (Reset)

Tester: Jim Svaty

Unit No: 76

Interval: 3689.00 ft (KB) To 3734.00 ft (KB) (TVD)

Reference Elevations: 2087.00 ft (KB)

Total Depth: 3789.00 ft (KB) (TVD)

2079.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: psig @ 3692.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.02.29

End Date: 2016.02.29

Last Calib.: 2016.02.29

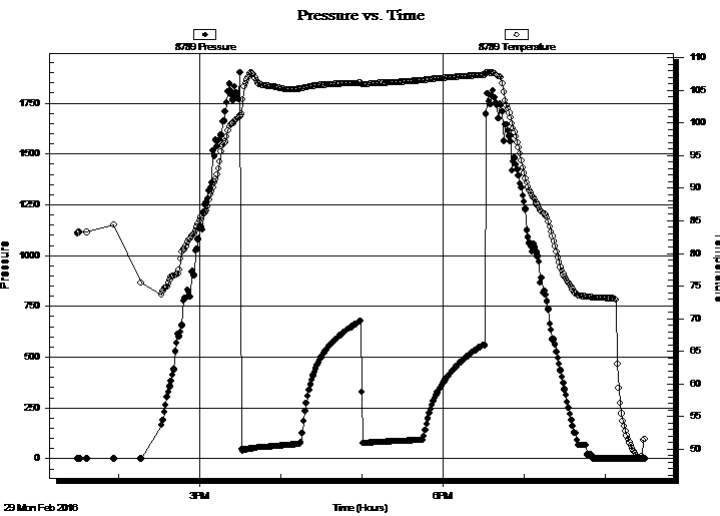
Start Time: 13:30:02

End Time: 20:29:45

Time On Btm:

Time Off Btm:

TEST COMMENT: 45-IF- Surface Blow Building to 2 1/2in. In 3min. Died Back in 8min.
45-ISI- No Blow
45-FF- 3/4in Blow in 2min. Died Back in 7min.
45-FSI- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
126.00	OWCM 20%o 20%w 60%m	1.49
10.00	CO 100%	0.14

* 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 Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64764

DST#: 4

ATTN: Marc Dow ning

Test Start: 2016.02.29 @ 13:30:00

Tool Information

Drill Pipe:	Length: 3643.00 ft	Diameter: 3.80 inches	Volume: 51.10 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 52000.00 lb
			<u>Total Volume: 51.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3689.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	3734.00 ft			
Interval betw een Packers:	45.00 ft			
Tool Length:	121.00 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			3669.00	
Shut In Tool	5.00			3674.00	
Hydraulic tool	5.00			3679.00	
Packer	5.00			3684.00	21.00 Bottom Of Top Packer
Packer	5.00			3689.00	
Stubb	1.00			3690.00	
Perforations	1.00			3691.00	
Change Over Sub	1.00			3692.00	
Recorder	0.00	8789	Inside	3692.00	
Recorder	0.00	8289	Outside	3692.00	
Blank Spacing	32.00			3724.00	
Change Over Sub	1.00			3725.00	
Perforations	5.00			3730.00	
Blank Off Sub	1.00			3731.00	
Blank Spacing	3.00			3734.00	45.00 Tool Interval
Packer	2.00			3736.00	
Perforations	16.00			3752.00	
Change Over Sub	1.00			3753.00	
Recorder	0.00	6668	Below	3753.00	
Blank Spacing	32.00			3785.00	
Change Over Sub	1.00			3786.00	
Bullnose	3.00			3789.00	55.00 Bottom Packers & Anchor

Total Tool Length: 121.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

25 14s 19w Ellis,KS

PO Box 1019
Hays KS 67601

Lisa #1-25

Job Ticket: 64764

DST#: 4

ATTN: Marc Dow ning

Test Start: 2016.02.29 @ 13:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

24 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

45000 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.57 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10500.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
126.00	OWCM 20%o 20%w 60%m	1.485
10.00	CO 100%	0.140

Total Length: 136.00 ft

Total Volume: 1.625 bbf

Num Fluid Samples: 0

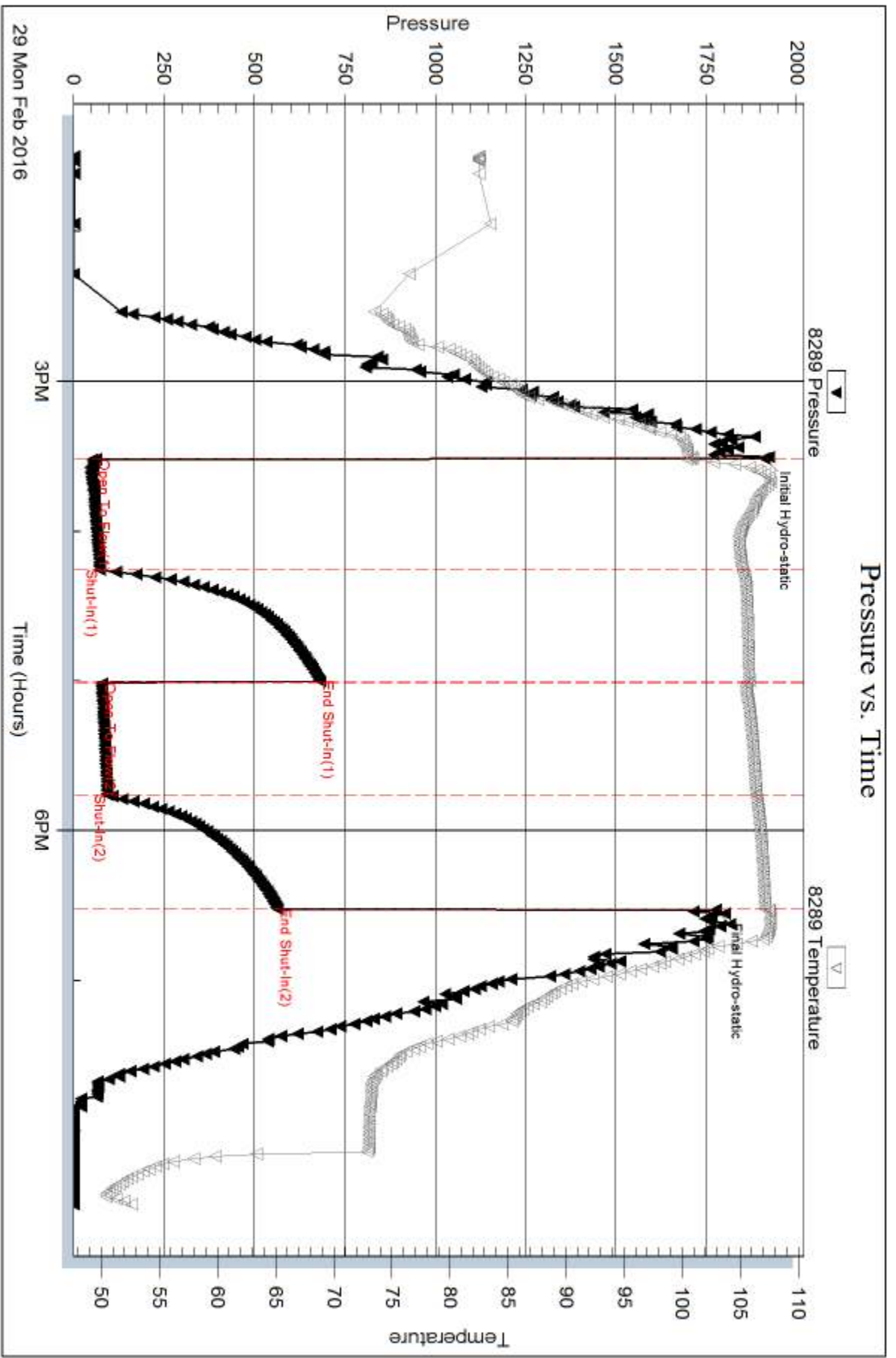
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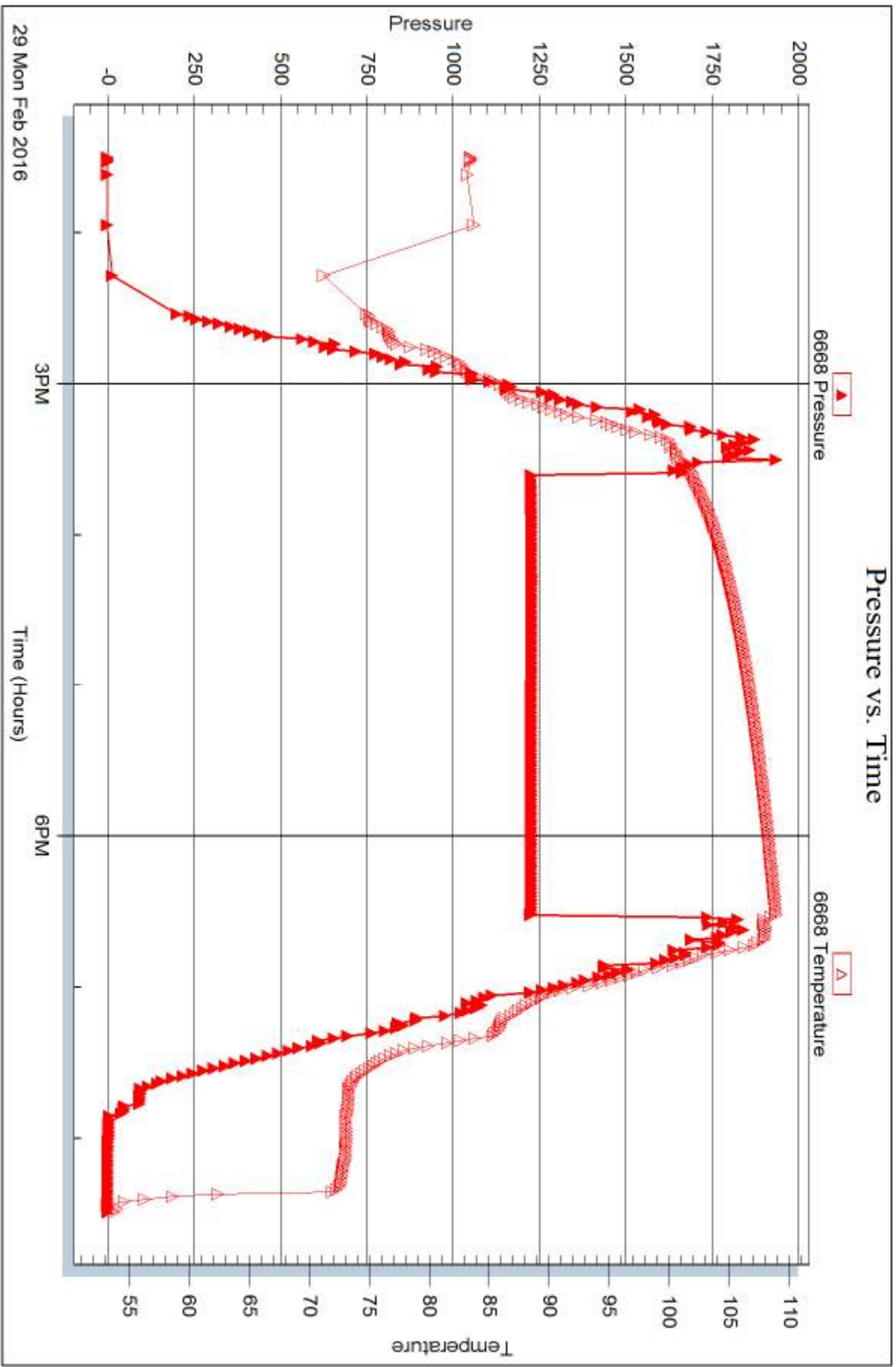
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: .230 @ 50





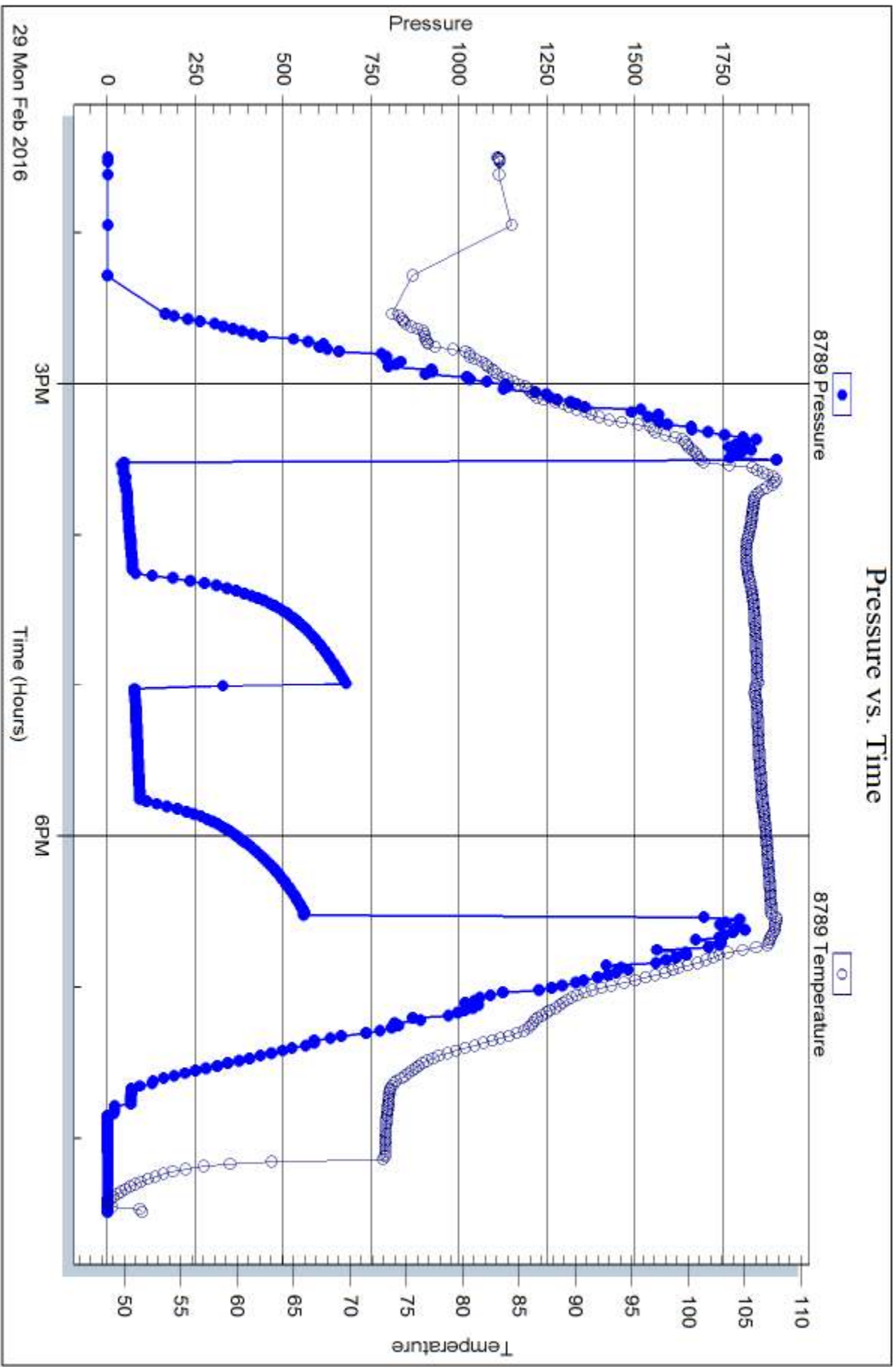
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Inside

Dow nrg-Nelson Oil Co Inc

Lisa #1-25

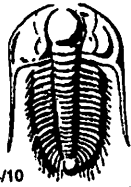
DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64764

Printed: 2016.03.01 @ 11:26:53



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64761

Well Name & No. LISA # 1-25 Test No. 1 Date 2-26-16
 Company Downing-Nelson Oil Co Inc. Elevation 2087 KB 2079 GL
 Address P.O. Box 1019 Hays KS 67601-
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 25 Twp. 14^s Rge. 19^w Co. Ellis State KS

Interval Tested 3407-3441 Zone Tested LKC "C"
 Anchor Length 34 Drill Pipe Run 3360 Mud Wt. 8.7
 Top Packer Depth 3402 Drill Collars Run 31 Vis 69
 Bottom Packer Depth 3407 Wt. Pipe Run 0 WL 7.6
 Total Depth 3441 Chlorides 2750 ppm System LCM 2.5

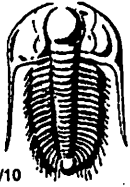
Blow Description IF - BOB in 12min.
ISI - No Blow
FF - BOB in 12 1/2 min.
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>490</u>	<u>MCW</u>		<u>90</u>	<u>10</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 490 BHT 109 Gravity _____ API RW 100 @ 43 °F Chlorides 150,000 ppm
 (A) Initial Hydrostatic 1720 Test 1050 T-On Location 23:11
 (B) First Initial Flow 29 Jars _____ T-Started 01:11
 (C) First Final Flow 158 Safety Joint _____ T-Open 03:51
 (D) Initial Shut-In 677 Circ Sub _____ T-Pulled 06:21
 (E) Second Initial Flow 161 Hourly Standby _____ T-Out 08:32
 (F) Second Final Flow 252 Mileage 21 RT 15.75 Comments _____
 (G) Final Shut-In 671 Sampler _____
 (H) Final Hydrostatic 1668 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 30 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1065.75
 Sub Total 1065.75 Accessibility _____ MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or 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. 64762

Well Name & No. LISA # 1-25 Test No. 2 Date 2-28-16
 Company Downing-Nelson Oil Co. Inc. Elevation 2087 KB 2079 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3687-3731 Zone Tested Arbuckle
 Anchor Length 44 Drill Pipe Run 3645 Mud Wt. 9
 Top Packer Depth 3682 Drill Collars Run 31 Vis 60
 Bottom Packer Depth 3687 Wt. Pipe Run 0 WL 8
 Total Depth 3731 Chlorides 5000 ppm System LCM 2 1/2

Blow Description IF - BOB in 2 min.
ISI - No Blow
FF - Surface Blow Building to 3/4 in. In 4 min. Died Back 8 min.
FSI - No Blow - Flushed FF. Surface Blow for 5 min. then Died.

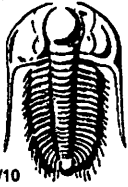
Rec	Feet of	%gas	%oil	%water	%mud
<u>130</u>	<u>CO</u>		<u>100</u>		
<u>75</u>	<u>OCM</u>		<u>5</u>		<u>95</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 205 BHT 108 Gravity 24 API RW @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1899 Test 1050 T-On Location 05:40
 (B) First Initial Flow 59 Jars _____ T-Started 06:16
 (C) First Final Flow 73 Safety Joint _____ T-Open 08:15
 (D) Initial Shut-In 655 Circ Sub _____ T-Pulled 11:15
 (E) Second Initial Flow 83 Hourly Standby _____ T-Out 13:20
 (F) Second Final Flow 98 Mileage 15.75 Comments _____
 (G) Final Shut-In 509 Sampler _____
 (H) Final Hydrostatic 1729 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1065.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1065.75

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged or 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. 64763

Well Name & No. LISA #1-25 Test No. 3 Date 2-28-16
 Company Downing-Nelson Oil Co INC Elevation 2087 KB 2079 GL
 Address P.O. Box 1019 HAYS KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #3
 Location: Sec. 25 Twp. 14^s Rge. 19^w Co. Ellis State KS

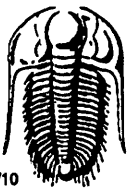
Interval Tested 3731-3739 Zone Tested Arbuckle
 Anchor Length 8 Drill Pipe Run 3709 Mud Wt. 9.4
 Top Packer Depth 3726 Drill Collars Run 31 Vis 56
 Bottom Packer Depth 3731 Wt. Pipe Run 0 WL 8.8
 Total Depth 3739 Chlorides 8000 ppm System LCM 2

Blow Description IF - BOB in 8 1/2 min, Died Back in 3 min, Final Blow Tin.
ISI - No Blow
FF - Surface Blow Building to 9 1/4 in, 16 min, Died Back 22 min Final Tin.
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>800</u>	<u>Water</u>		<u>100</u>		
<u>320</u>	<u>Oil Speck Water</u>		<u>100</u>		
<u>40</u>	<u>CO</u>	<u>100</u>			

Rec Total 1160 BHT 117 Gravity 24 API RW 275 @ 41 °F Chlorides 46000 ppm
 (A) Initial Hydrostatic 1896 Test 1050 T-On Location 18:48
 (B) First Initial Flow 64 Jars _____ T-Started 18:50
 (C) First Final Flow 312 Safety Joint _____ T-Open 21:01
 (D) Initial Shut-In 1183 Circ Sub _____ T-Pulled 00:01
 (E) Second Initial Flow 334 Hourly Standby _____ T-Out 02:43
 (F) Second Final Flow 535 Mileage 15.75 Comments _____
 (G) Final Shut-In 1184 Sampler _____
 (H) Final Hydrostatic 1810 Straddle _____ Ruined Shale Packer _____
 Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1065.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1065.75

Approved By _____ Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64764

Well Name & No. LISA # 1-25 Test No. 4 Date 2-19-16
 Company Downing-Nelson Oil Co. Inc Elevation 2087 KB 2079 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. MARC DOWNING Rig Discovery #3
 Location: Sec. 25 Twp. 14^S Rge. 19^W Co. Ellis State KS

Interval Tested 3689-3734 Zone Tested Arbuckle
 Anchor Length 45 (SSTP) Drill Pipe Run 3643 Mud Wt. 9.4
 Top Packer Depth 3689 Drill Collars Run 31 Vis 54
 Bottom Packer Depth 3734 Wt. Pipe Run 0 WL 9.6
 Total Depth 3789 Chlorides 10500 ppm System LCM 2
 Blow Description IF - Surface Blow Building to 2 1/2 in. in 3 min. Died Back in 8 min.
ISI - No Blow
FF - 3/4 in Blow in 2 min. Died Back in 7 min.
FSI - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>OWCM</u>	<u>20</u>	<u>20</u>	<u>60</u>	
<u>10</u>	<u>CO</u>	<u>100</u>			

Rec Total 136 BHT 107 Gravity 24 API RW 290 @ 50 °F Chlorides 45000 ppm
 (A) Initial Hydrostatic 1910 Test 1050 T-On Location 13:25
 (B) First Initial Flow 63 Jars _____ T-Started 12:30
 (C) First Final Flow 73 Safety Joint _____ T-Open 15:31
 (D) Initial Shut-In 681 Circ Sub _____ T-Pulled 18:31
 (E) Second Initial Flow 80 Hourly Standby _____ T-Out 20:30
 (F) Second Final Flow 94 Mileage 15.75 Comments _____
 (G) Final Shut-In 564 Sampler _____
 (H) Final Hydrostatic 1777 Straddle 600 Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1665.75
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1665.75

Approved By _____ Our Representative [Signature]
 TriLOBITE TESTING INC. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

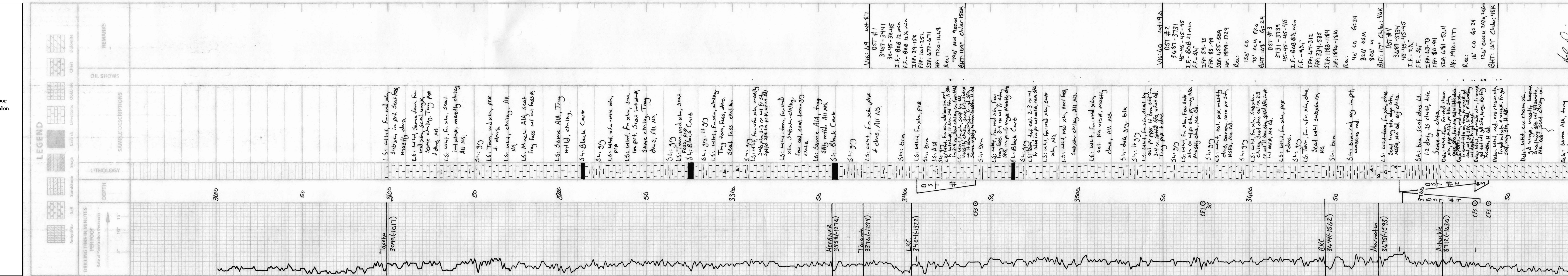
Marc A. Downing Consulting Petroleum Geologist		Geologic Report Drilling Time and Sample Log			
Operator Downing-Nelson Oil Co., Inc.		Elevation KB 2082 DF 2080 GL 2074			
Lease Lisa No. 1-25		Casing Record Surface 8 5/8" @ 220' Production None Electrical Surveys CNLD, DIL, MEL			
API # 15-051-26821-0000		Field Wildcat			
Location 920' FSL & 990' FEL		Sec. 25 Twp. 14s Rge. 19w			
County Ellis State Kansas		Datum Struct Comp			
Top Anhydrite	1321	1322	+760	FL	
Base Anhydrite	1367	1368	+714	-2	
Topoka	3099	3098	-1016	-1	
Heebner	3358	3356	-1274	FL	
Toronto	3376	3374	-1292	+1	
LKC	3404	3402	-1320	+1	
BKC	3644	3641	-1559	+4	
Arbuckle	3712	3710	-1628	+11	
Total Depth	3789	3789	-1707		
Reference Well For Structural Comparison Sarah #1-25		DNOCI 735' ENL & 1815' FEL		Sec. 25-14s-19w	

Drilling Contractor	Discovery Drilling, Rig #3
Commenced	2-23-16
Completed	2-9-16
Samples Saved From	3100 To RTD
Drilling Time Kept From	3000 To RTD
Samples Examined From	3100 To RTD
Geological Supervision From	3000 To RTD

Summary and Recommendations

The Sarah #1-25 ran structurally high to the nearby dry hole. Due to poor development in the LKC and Arbuckle, it was decided to plug and abandon the well.

Respectfully Submitted,
Marc A. Downing





TICKET 27050

CHARGE TO: Powering of Nelson
 ADDRESS:
 CITY, STATE, ZIP CODE

PAGE 1 OF 1

WELL PROJECT NO. #1 LEASE Lisa COUNTY/PARISH Ellis STATE KS. CITY _____ DATE 2-23-16 TOWNER Sare

TICKET TYPE SERVICE SALES CONTRACTOR Discovery Rig #3 ORDER NO. _____
 WELL TYPE Oil WELL CATEGORY Development JOB PURPOSE Cont. 8 3/8" Surface DELIVERED TO Loc
 REFERRAL LOCATION _____ INVOICE INSTRUCTIONS _____ WELL PERMIT NO. _____ WELL LOCATION _____

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	UM	QTY.	UM	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1			20	mi			5.00	100.00
576S		1		MILEAGE #11 Pump Service	1	ea			800.00	800.00
290		1		D-Air	2	gal			42.00	84.00
581		1		Suberin Charge	150	sk			1.50	225.00
582		1		Drayage		M.m			250.00	250.00
325		1		Standard Cement	150	sk			12.25	1837.50
279		1		Gel	3	sk			25.00	75.00
278		1		Calcium Chloride	3	sk			40.00	120.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY**, and **LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

DATE SIGNED: _____ TIME SIGNED: _____ A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

SURVEY: OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO
 WE UNDERSTOOD AND MET YOUR NEEDS? YES NO
 OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO
 ARE YOU SATISFIED WITH OUR SERVICE? YES NO

PAGE TOTAL: 3491.50
 BTD Price
 10% Discount USS -349.15
 3142.35
 ELLIOTT CO. 770
 TOTAL: 3290.51

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

WELL OPERATOR: [Signature] APPROVAL: _____

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 2-29-16 PAGE NO.

CUSTOMER Downing & Nelson

WELL NO. 1-25

LEASE Lisa

JOB TYPE Rotary Plug

TICKET NO. 28771

CHART NO.	TIME	RATE (BPM)	VOLUME (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1030							On location
	1145	4.5	10			300		1st plug @ 3690 - 50 SKS CMT
		4.5	13			300		pump wtr spacer
	1150	4.5	3			300		pump CMT
			45					pump wtr Disp
	1200							Hook up Kelly and disp w/ mud
								End Disp
	110	4.5	5			300		2nd plug @ 1350 - 50 SKS CMT
		4.5	13			300		pump wtr spacer
	120	4.5	2			300		pump CMT
								pump wtr Disp
	145	4.5	5			300		3rd plug @ 630' - 100 SKS CMT
		4.5	26			300		pump wtr spacer
	155	4.5	2			300		pump CMT
								pump wtr Disp
	200	4.5	5			150		4th plug @ 275' - 50 SKS CMT
	205	4.5	5			150		pump wtr spacer
		4.5	13			150		pump CMT
	215	4.5	1			150		pump wtr Disp
	315	2	3			0		5th plug @ 40' - 10 SKS
								pump CMT
	320	2	8			0		plug Rat hole - 30 SKS
	325	2	4			0		plug mouse hole - 15 SKS
	330							Done w/ Job
								Thanks
								David, Austin, & Preston