

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

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

API No.: _____

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 Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

INSTRUCTIONS: Show important tops 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 Geologist Report / Mud Logs <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				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
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)*

Date of first Production/Injection or Resumed Production/Injection:	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> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHMEIDLER TRUST 1-33
Doc ID	1471927

Tops

Name	Top	Datum
Top Anhydrite	1543'	+643
Base Anhydrite	1589'	+597
Topeka	3228'	-1042
Heebner	3457'	-1271
Toronto	3479'	-1293
LKC	3494'	-1308
BKC	3746'	-1560
Marmaton	3805'	-1619



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

33-12S-20W Ellis,KS

Schmeidler Trust #1-33

Start Date: 2019.09.12 @ 01:04:00

End Date: 2019.09.12 @ 06:27:45

Job Ticket #: 66313 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.09.17 @ 14:43:41



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66313

DST#: 1

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 01:04:00

GENERAL INFORMATION:

Formation: **LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:45

Time Test Ended: 06:27:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3485.00 ft (KB) To 3520.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3520.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8678

Outside

Press@RunDepth: 18.84 psig @ 3486.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.12

End Date:

2019.09.12

Last Calib.:

2019.09.12

Start Time: 01:04:05

End Time:

06:27:44

Time On Btm:

2019.09.12 @ 02:56:30

Time Off Btm:

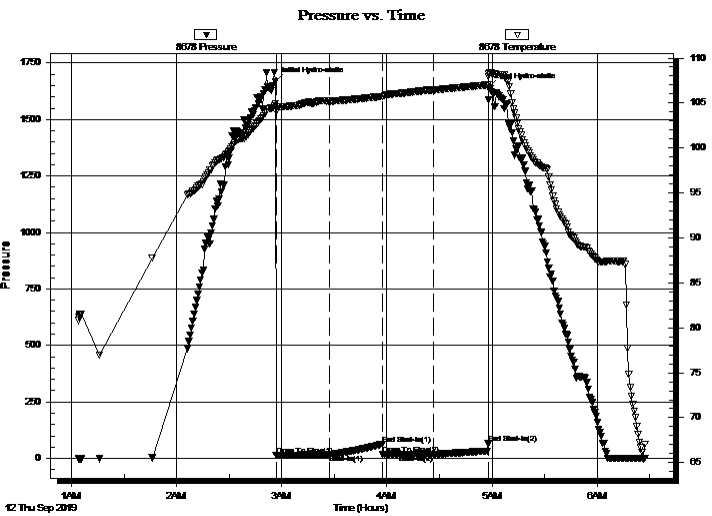
2019.09.12 @ 04:58:15

TEST COMMENT: 30 - IFP - Surface blow stayed at a faint blow

30 - ISI - No Return

30 - FFP - No Surface blow

30 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1668.29	104.89	Initial Hydro-static
1	14.59	104.02	Open To Flow (1)
31	15.81	105.21	Shut-In(1)
61	62.60	105.73	End Shut-In(1)
62	18.75	105.73	Open To Flow (2)
91	18.84	106.44	Shut-In(2)
122	64.99	107.03	End Shut-In(2)
122	1640.86	108.29	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM - Oil Spots - 100%m	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66313

DST#: 1

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 01:04:00

Tool Information

Drill Pipe:	Length: 3454.28 ft	Diameter: 3.25 inches	Volume: 35.44 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.52 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 79000.00 lb
			<u>Total Volume: 35.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.80 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3485.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 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
Shut In Tool	5.00			3470.00	
Hydraulic tool	5.00			3475.00	
Packer	5.00			3480.00	20.00 Bottom Of Top Packer
Packer	5.00			3485.00	
Stubb	1.00			3486.00	
Recorder	0.00	8360	Inside	3486.00	
Recorder	0.00	8678	Outside	3486.00	
perforations	31.00			3517.00	
Bullnose	3.00			3520.00	35.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66313

DST#: 1

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 01:04:00

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: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM - Oil Spots - 100%m	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

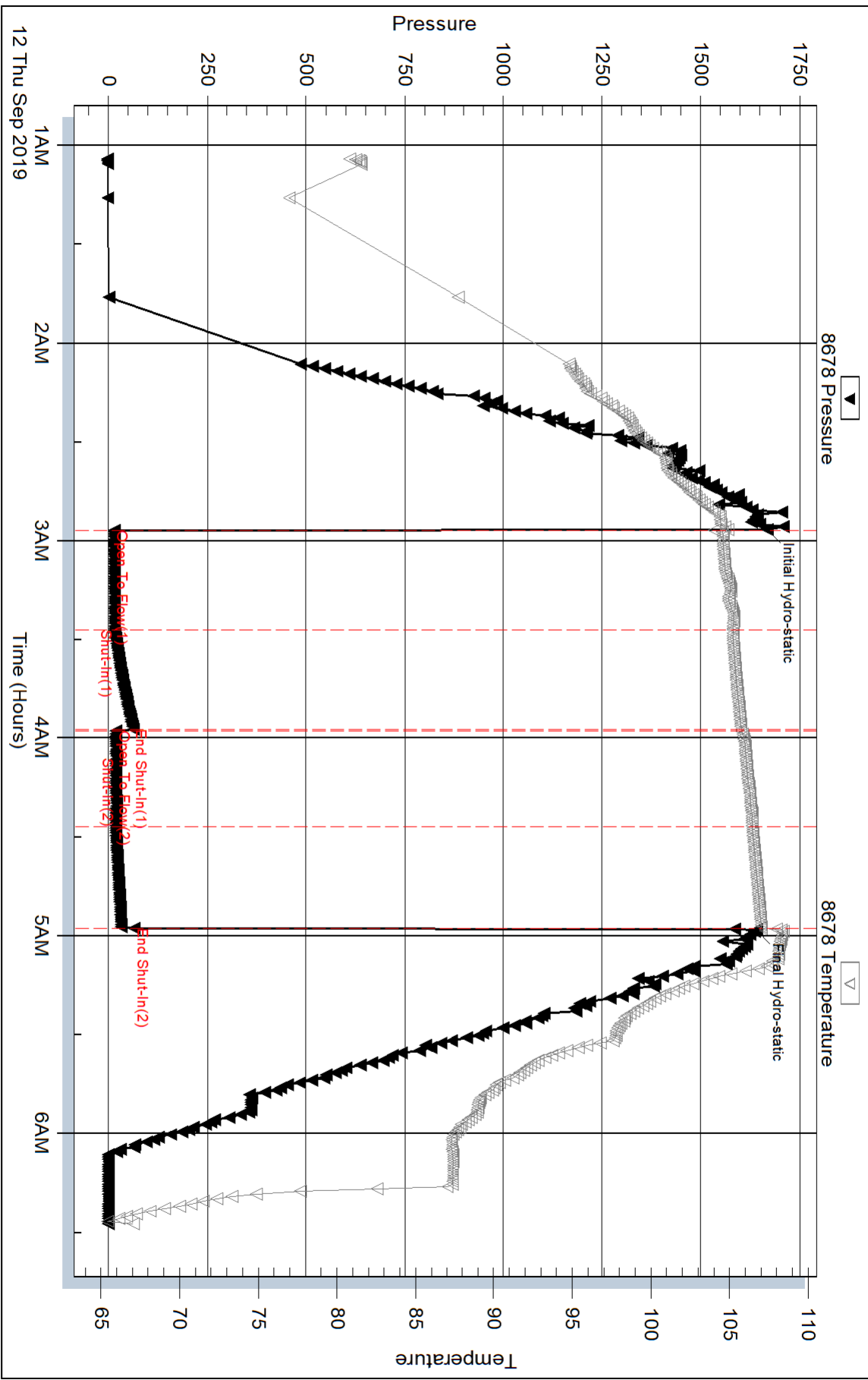
Serial #:

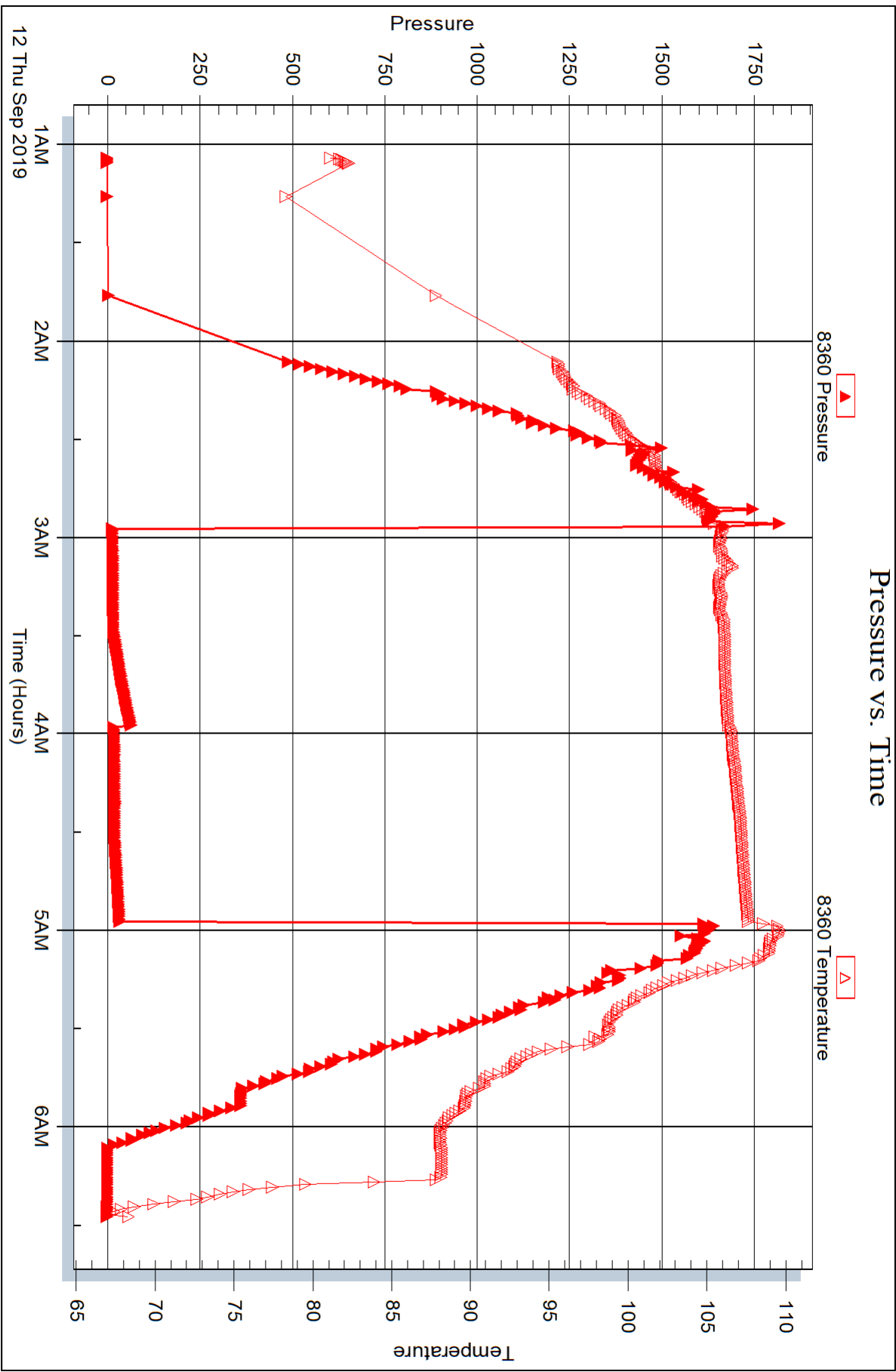
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

33-12S-20W Ellis,KS

Schmeidler Trust #1-33

Start Date: 2019.09.12 @ 12:38:00

End Date: 2019.09.12 @ 18:58:00

Job Ticket #: 66314 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.09.17 @ 14:41:21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66314

DST#: 2

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 12:38:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:19:30

Time Test Ended: 18:58:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3513.00 ft (KB) To 3538.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3538.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8678 Outside

Press@RunDepth: 58.08 psig @ 3514.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.12 End Date: 2019.09.12

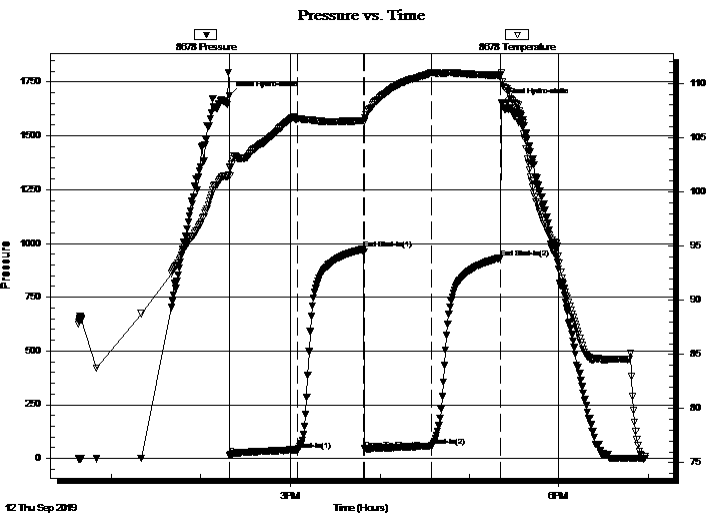
Last Calib.: 2019.09.12

Start Time: 12:38:05 End Time: 18:57:59

Time On Btm: 2019.09.12 @ 14:19:15

Time Off Btm: 2019.09.12 @ 17:21:30

TEST COMMENT: 45 - IFP - Surface blow slow ly built to 4 1/2"
45 - ISI - No Return
45 - FFP - Surface blow slow ly built to 4 3/4"
45 - FSI - No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1687.78	102.29	Initial Hydro-static
1	16.02	101.49	Open To Flow (1)
46	40.84	106.72	Shut-In(1)
90	974.40	106.57	End Shut-In(1)
91	44.82	106.53	Open To Flow (2)
136	58.08	110.98	Shut-In(2)
182	932.91	110.75	End Shut-In(2)
183	1652.75	110.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	Free Oil - 100%o	0.01
90.00	OCMW - 20%O 60%W 20%M	0.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66314

DST#: 2

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 12:38:00

Tool Information

Drill Pipe:	Length: 3486.00 ft	Diameter: 3.25 inches	Volume: 35.77 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.52 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 78000.00 lb
			<u>Total Volume: 35.93 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.52 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3513.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Shut In Tool	5.00			3498.00	
Hydraulic tool	5.00			3503.00	
Packer	5.00			3508.00	20.00 Bottom Of Top Packer
Packer	5.00			3513.00	
Stubb	1.00			3514.00	
Recorder	0.00	8360	Inside	3514.00	
Recorder	0.00	8678	Outside	3514.00	
perforations	21.00			3535.00	
Bullnose	3.00			3538.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66314

DST#: 2

ATTN: Mark Dow ning

Test Start: 2019.09.12 @ 12:38:00

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:

48000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
3.00	Free Oil - 100%o	0.015
90.00	OCMW - 20%O 60%W 20%M	0.771

Total Length: 93.00 ft Total Volume: 0.786 bbf

Num Fluid Samples: 0

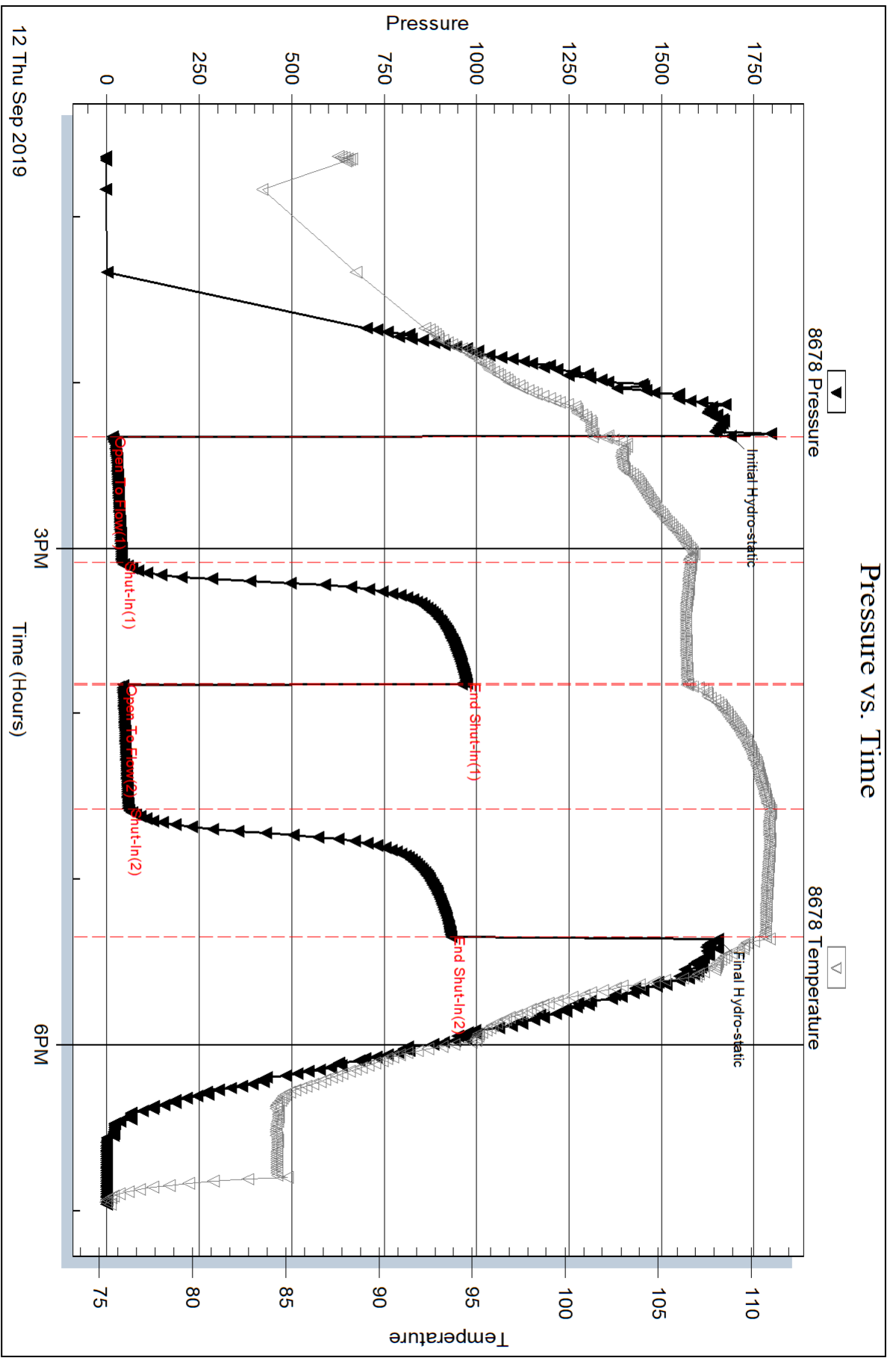
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Res. - .138 @ 81 deg.



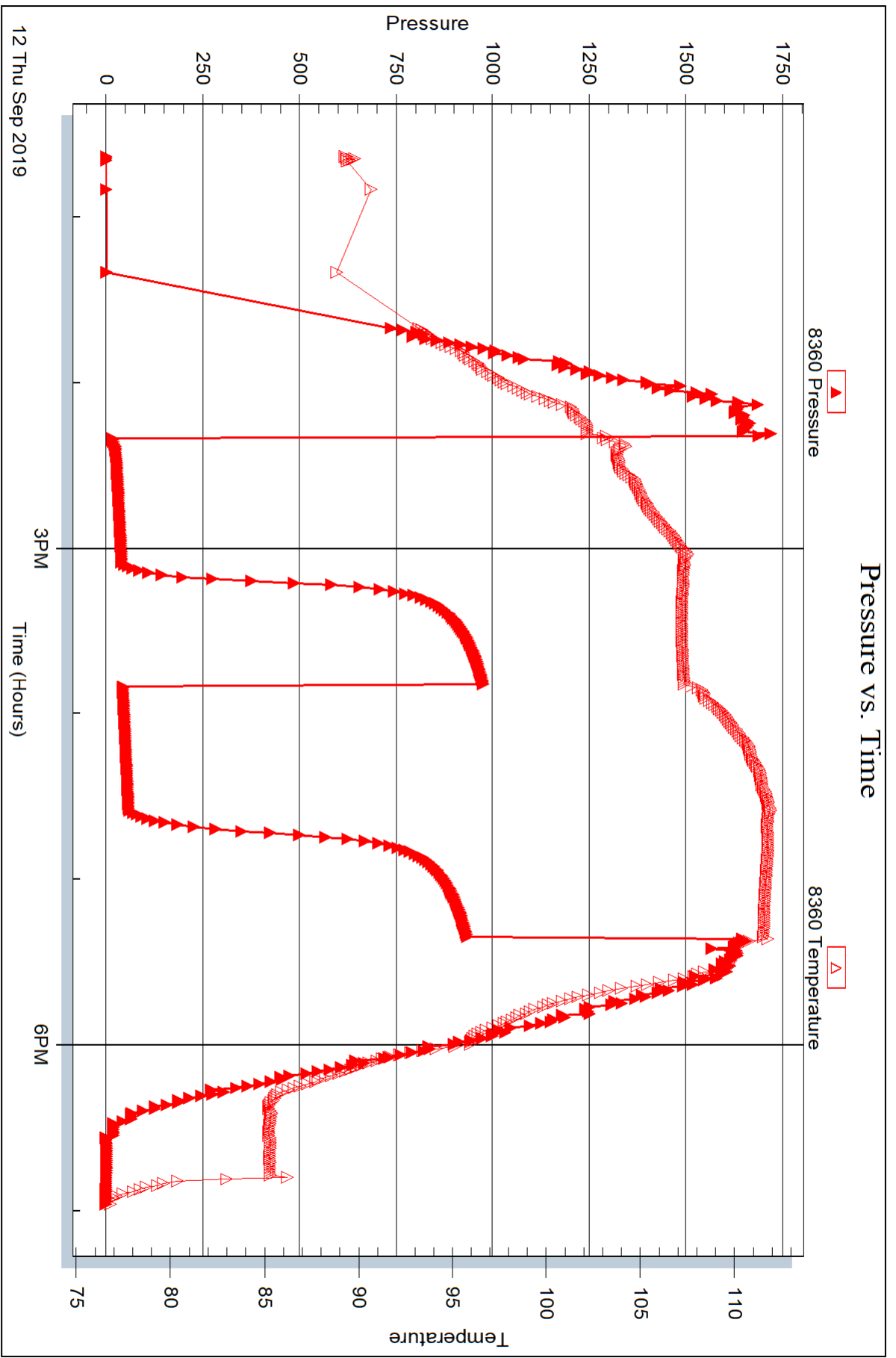
Serial #: 8360

Inside

Doming-Nelson Oil Company

33-12S-20W Ellis, KS

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

33-12S-20W Ellis,KS

Schmeidler Trust #1-33

Start Date: 2019.09.13 @ 13:48:00

End Date: 2019.09.13 @ 19:19:15

Job Ticket #: 66315 DST #: 3

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.09.17 @ 14:37:43



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66315

DST#: 3

ATTN: Mark Dow ning

Test Start: 2019.09.13 @ 13:48:00

GENERAL INFORMATION:

Formation: **LKC H - J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:40:00

Time Test Ended: 19:19:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3615.00 ft (KB) To 3690.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3690.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8678

Outside

Press@RunDepth: 22.51 psig @ 3616.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.13

End Date: 2019.09.13

Last Calib.: 2019.09.13

Start Time: 13:48:05

End Time: 19:19:14

Time On Btm: 2019.09.13 @ 15:39:45

Time Off Btm: 2019.09.13 @ 17:41:45

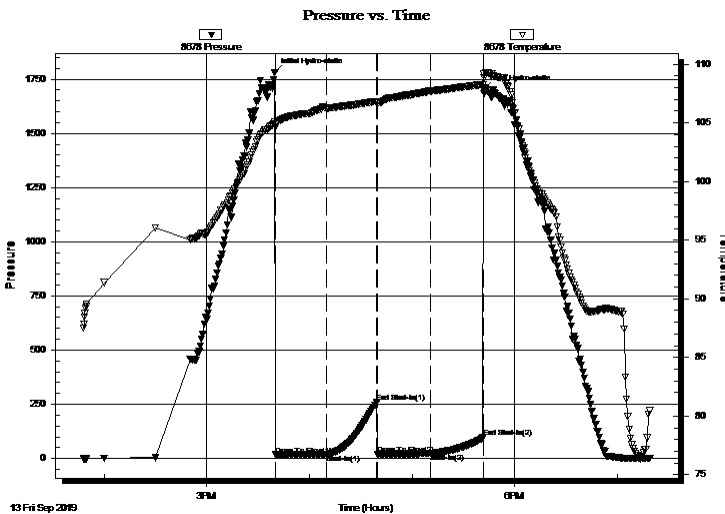
TEST COMMENT: 30 - IFP - Surface blow built up to 1/4" then died to a faint blow

30 - ISI - No Return

30 - FFP - No Surface blow

30 - FSI - No Return

PRESSURE SUMMARY



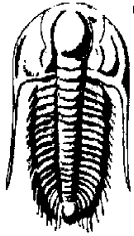
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1781.07	105.09	Initial Hydro-static
1	17.09	104.63	Open To Flow (1)
31	19.35	106.24	Shut-In(1)
60	260.35	106.83	End Shut-In(1)
60	20.91	106.73	Open To Flow (2)
91	22.51	107.71	Shut-In(2)
122	95.97	108.27	End Shut-In(2)
122	1701.22	109.17	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	OSM - Oil Spots - 100%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66315

DST#: 3

ATTN: Mark Dow ning

Test Start: 2019.09.13 @ 13:48:00

Tool Information

Drill Pipe:	Length: 3581.13 ft	Diameter: 3.25 inches	Volume: 36.74 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.52 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 36.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.65 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	3615.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	75.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3600.00	
Hydraulic tool	5.00			3605.00	
Packer	5.00			3610.00	20.00 Bottom Of Top Packer
Packer	5.00			3615.00	
Stubb	1.00			3616.00	
Recorder	0.00	8360	Inside	3616.00	
Recorder	0.00	8678	Outside	3616.00	
perforations	7.00			3623.00	
Change Over Sub	1.00			3624.00	
Drill Pipe	62.00			3686.00	
Change Over Sub	1.00			3687.00	
Bullnose	3.00			3690.00	75.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66315

DST#: 3

ATTN: Mark Dow ning

Test Start: 2019.09.13 @ 13:48:00

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: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	OSM - Oil Spots - 100%m	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

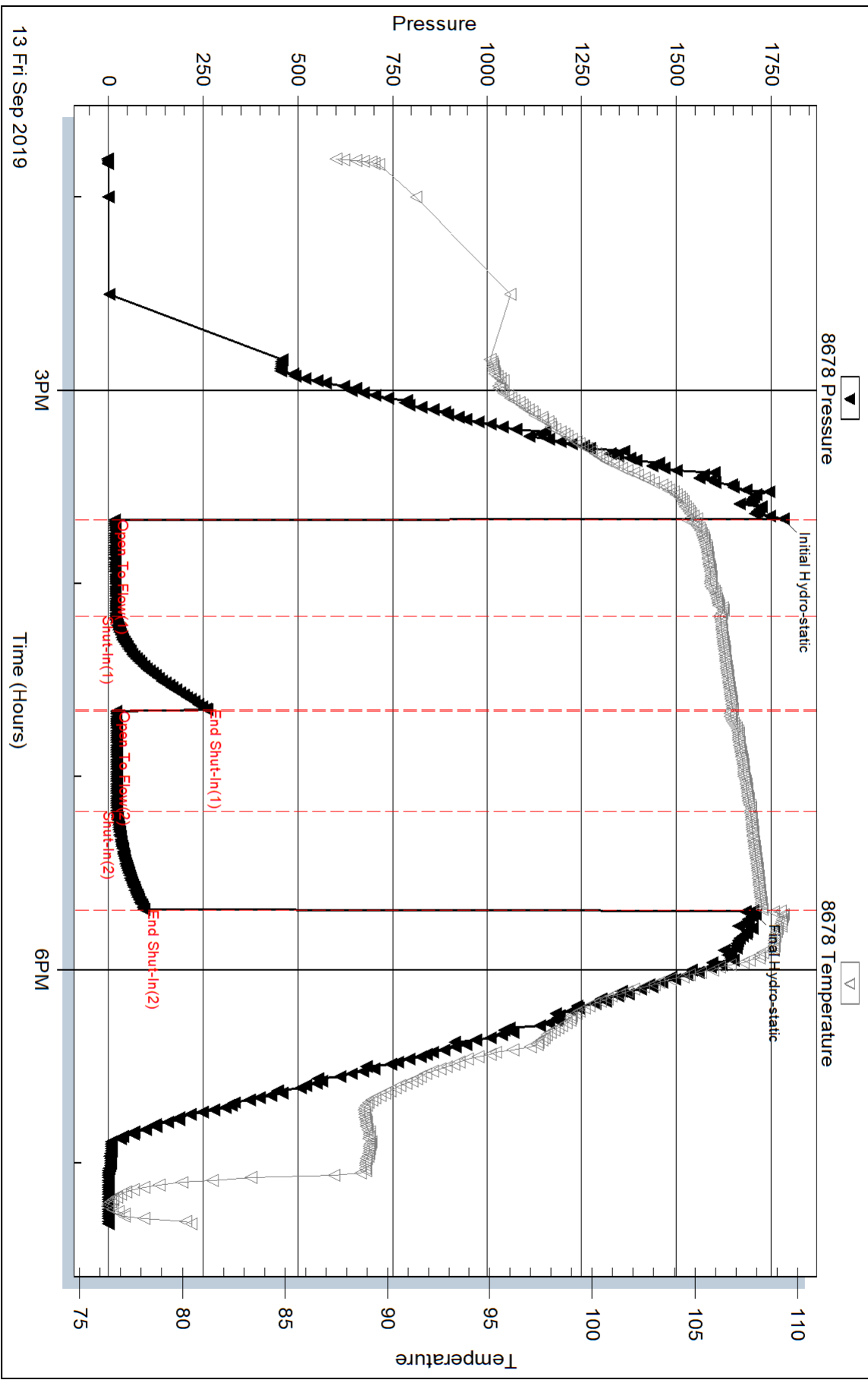
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



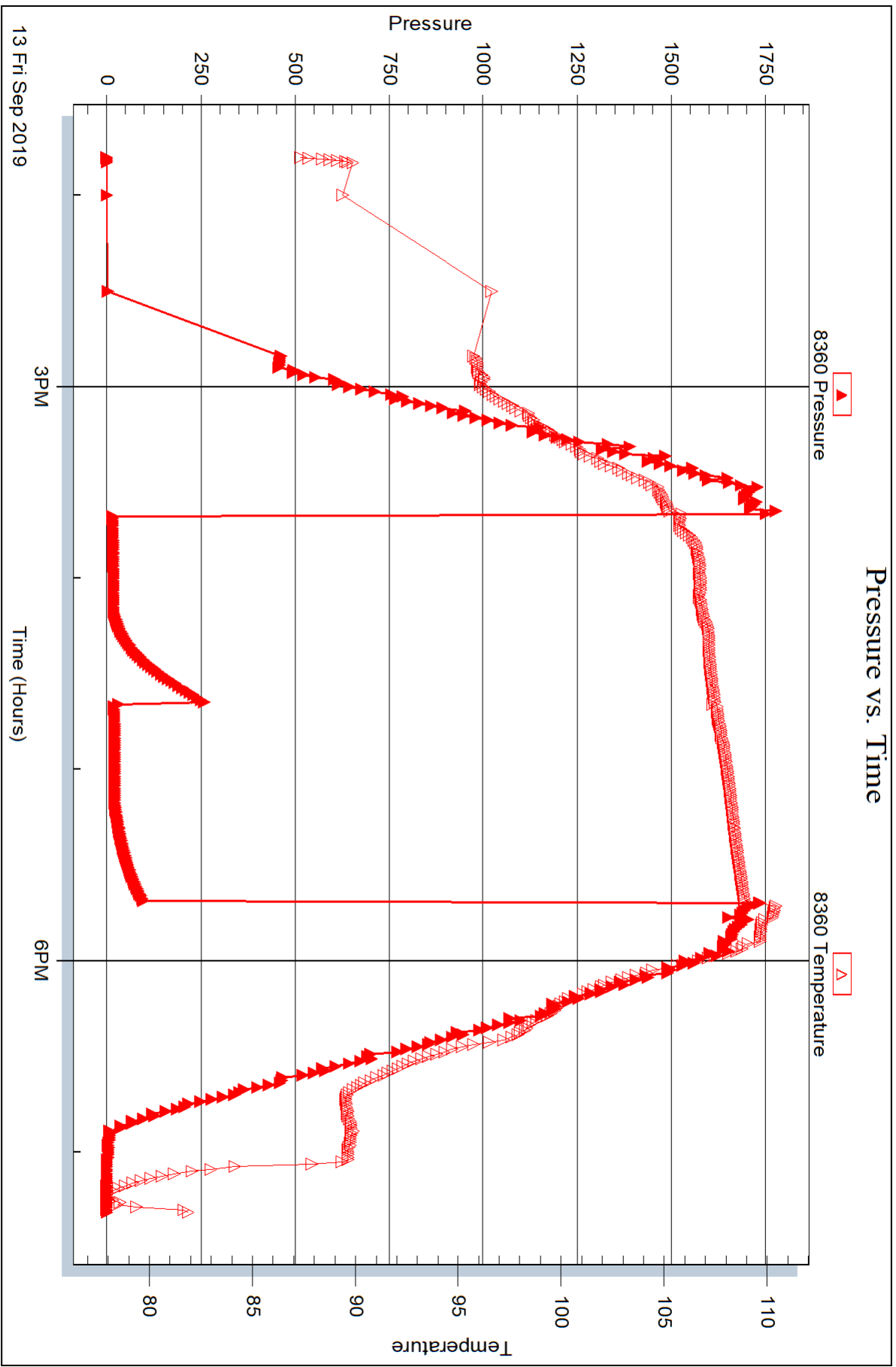
Serial #: 8360

Inside

Dow nting-Nelson Oil Company

33-12S-20W Ellis, KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66315

Printed: 2019.09.17 @ 14:37:44



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

33-12S-20W Ellis,KS

Schmeidler Trust #1-33

Start Date: 2019.09.14 @ 01:57:00

End Date: 2019.09.14 @ 07:08:30

Job Ticket #: 66316 DST #: 4

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.09.17 @ 14:35:30

Downing-Nelson Oil Company
Schmeidler Trust #1-33
33-12S-20W Ellis,KS
DST # 4
LKC "K"
2019.09.14



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66316

DST#: 4

ATTN: Mark Dow ning

Test Start: 2019.09.14 @ 01:57:00

GENERAL INFORMATION:

Formation: **LKC "K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:43:45

Time Test Ended: 07:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Royal Fisher

Unit No: 77

Interval: 3686.00 ft (KB) To 3720.00 ft (KB) (TVD)

Reference Elevations: 2180.00 ft (KB)

Total Depth: 3720.00 ft (KB) (TVD)

2174.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 8678

Outside

Press@RunDepth: 31.77 psig @ 3687.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.09.14

End Date:

2019.09.14

Last Calib.:

2019.09.14

Start Time: 01:57:05

End Time:

07:08:29

Time On Btm:

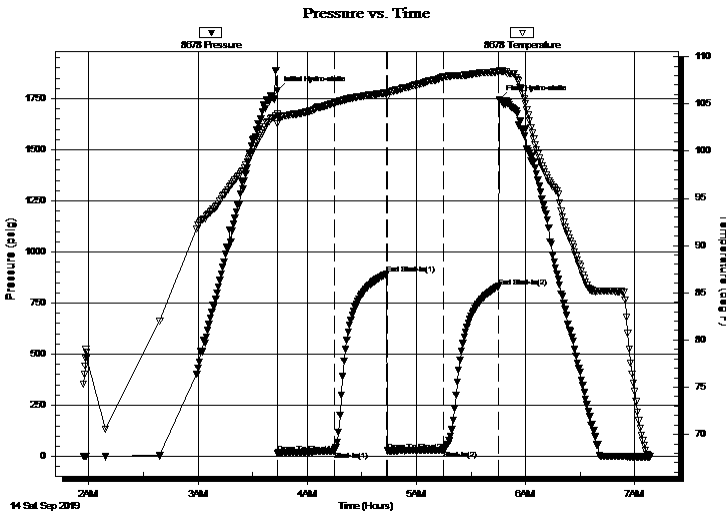
2019.09.14 @ 03:43:30

Time Off Btm:

2019.09.14 @ 05:45:45

TEST COMMENT: 30 - IFP - Surface blow built up to a little over 1 1/4"
30 - ISI - No Return
30 - FFP - A faint surface blow started at the end of the 30 mins.
30 - FSI - No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.36	103.92	Initial Hydro-static
1	16.35	102.93	Open To Flow (1)
32	26.38	105.05	Shut-In(1)
61	893.04	106.18	End Shut-In(1)
61	27.66	105.83	Open To Flow (2)
92	31.77	107.85	Shut-In(2)
122	831.21	108.40	End Shut-In(2)
123	1744.82	108.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	OSM - Oil Spots - 100%m	0.07

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66316

DST#: 4

ATTN: Mark Dow ning

Test Start: 2019.09.14 @ 01:57:00

Tool Information

Drill Pipe:	Length: 3644.60 ft	Diameter: 3.25 inches	Volume: 37.40 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 31.52 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 37.56 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.12 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3686.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3671.00	
Hydraulic tool	5.00			3676.00	
Packer	5.00			3681.00	20.00 Bottom Of Top Packer
Packer	5.00			3686.00	
Stubb	1.00			3687.00	
Recorder	0.00	8360	Inside	3687.00	
Recorder	0.00	8678	Outside	3687.00	
perforations	30.00			3717.00	
Bullnose	3.00			3720.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Company

Schmeidler Trust #1-33

PO Box 1019
Hays KS 67601

33-12S-20W Ellis,KS

Job Ticket: 66316

DST#: 4

ATTN: Mark Dow ning

Test Start: 2019.09.14 @ 01:57:00

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: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	OSM - Oil Spots - 100%m	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

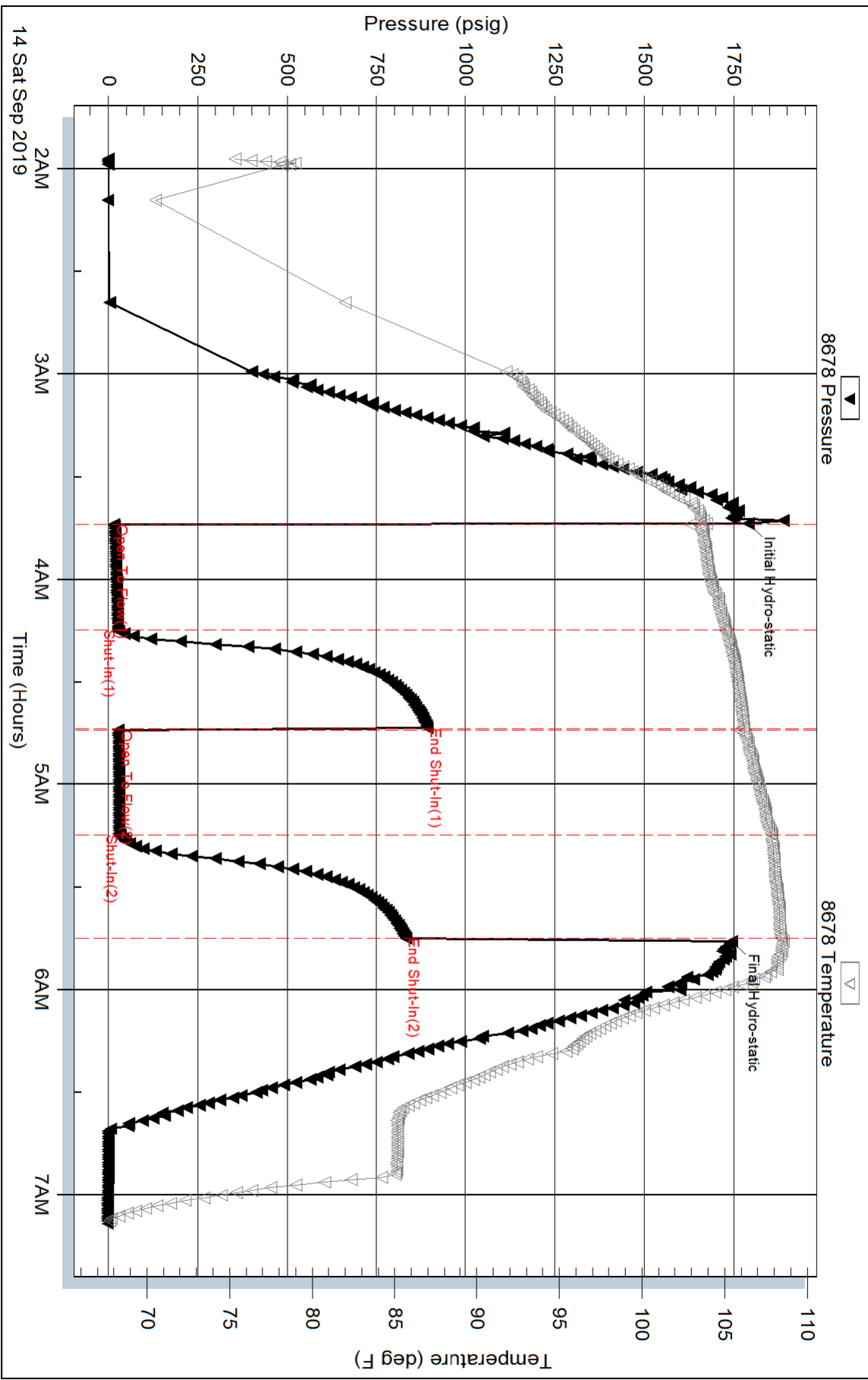
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



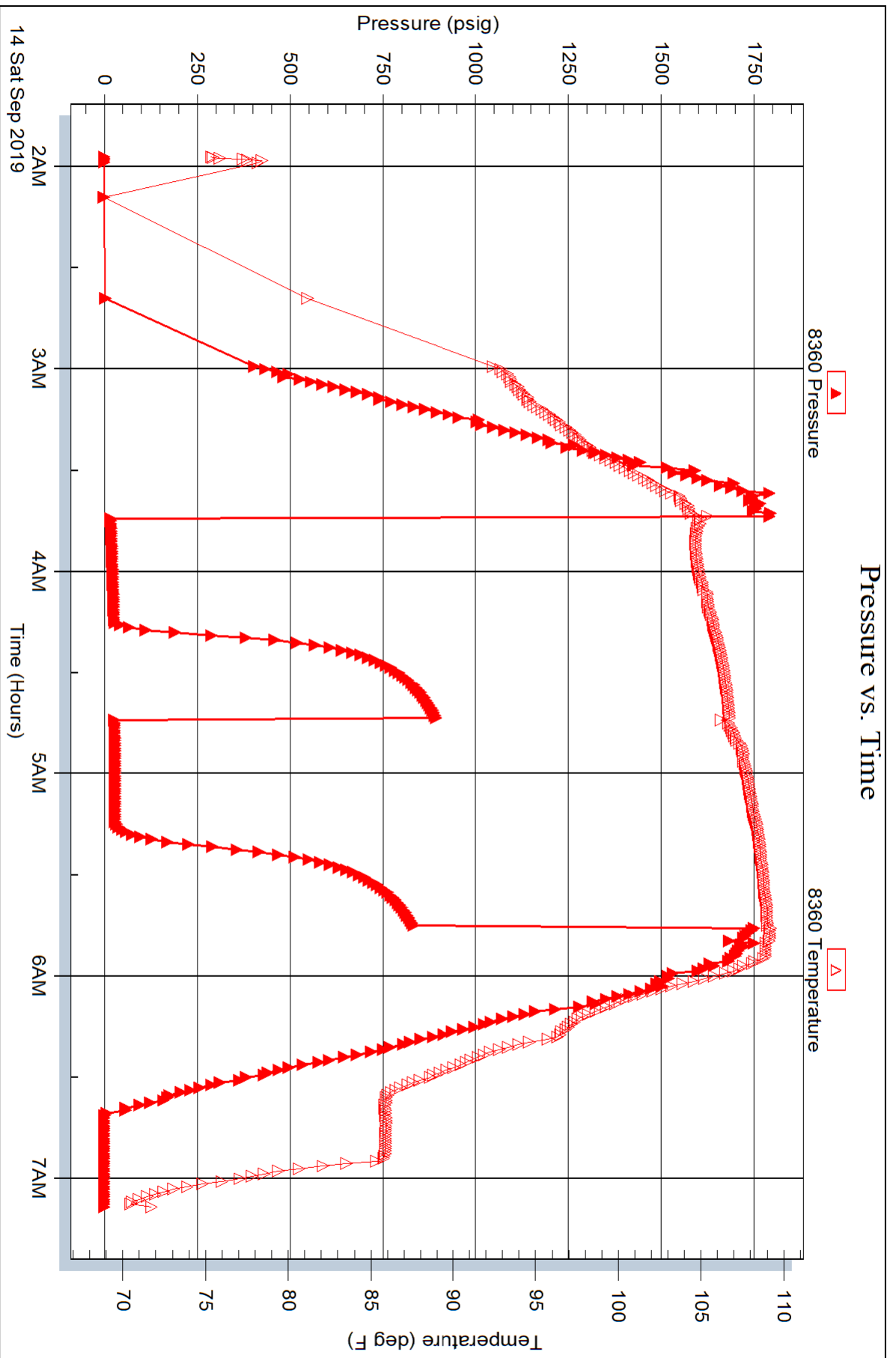
Serial #: 8360

Inside

Dow n/mg-Nelson Oil Company

33-12S-20W Ellis, KS

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66313

NO.

Well Name & No. Schmeidler Trust #1-33 Test No. 1 Date 9-12-19
 Company DNOCT Elevation 2180 KB 2174 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #41
 Location: Sec. 33 Twp 12S Rge. 20W Co. Ellis State Ks

Interval Tested 3485'-3520' Zone Tested Lansing A
 Anchor Length 35' Drill Pipe Run 3454.28' Mud Wt. 8.8
 Top Packer Depth 3480' Drill Collars Run 31.52' Vis 5.2
 Bottom Packer Depth 3485' Wt. Pipe Run 0 WL 7.6
 Total Depth 3520' Chlorides 4000 ppm System LCM 2.5 #

Blow Description IFF - surface blow stayed at a faint blow
ISI - No Return
FFP - No Surface blow
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>asm</u>	<u>spots</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 10 BHT 107°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 16108 Test 1200 T-On Location 12:08am
 (B) First Initial Flow 14 Jars _____ T-Started 1:04am
 (C) First Final Flow 15 Safety Joint _____ T-Open 2:57am
 (D) Initial Shut-In 62 Circ Sub _____ T-Pulled 4:57am
 (E) Second Initial Flow 18 Hourly Standby _____ T-Out 6:28am
 (F) Second Final Flow 18 Mileage 36 BIT 36 Comments _____
 (G) Final Shut-In 14 Sampler _____
 (H) Final Hydrostatic 1640 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1236
 Sub Total 1236

Approved By _____ Our Representative Royal [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 66314

NO.

Well Name & No. Schmeidler Trust #1-33 Test No. 2 Date 9-12-19
 Company DNOCT Elevation 2180 KB 2174 GL
 Address PO Box 1019 Hays ks 67601
 Co. Rep / Geo. Mark Downing Rig Discoverer/#4
 Location: Sec. 33 Twp 12S Rge. 20W Co. Ellis State ks

Interval Tested 3513' - 3538' Zone Tested LKC-C
 Anchor Length 25' Drill Pipe Run 3486' Mud Wt. 8.9
 Top Packer Depth 3508' Drill Collars Run 31.52' Vis 52
 Bottom Packer Depth 3513' Wt. Pipe Run Ø WL 7.6
 Total Depth 3538' Chlorides 5000 ppm System LCM 2.5 #

Blow Description IIF - Surface blow slowly built up to 4 1/2"
IST - No Return
IIF - Surface blow slowly built up to 4 3/4"
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3</u>	<u>Free Oil</u>	<u>100</u>			
<u>90'</u>	<u>OCMW</u>	<u>20</u>	<u>60</u>	<u>20</u>	

Rec Total 93' BHT IIF Gravity _____ API RW 138 @ 81 °F Chlorides 48,000 ppm
 (A) Initial Hydrostatic 11688 Test 1200 T-On Location 12:00 pm
 (B) First Initial Flow 110 Jars _____ T-Started 12:38 pm
 (C) First Final Flow 41 Safety Joint _____ T-Open 2:19 pm
 (D) Initial Shut-In 974 Circ Sub _____ T-Pulled 5:19 pm
 (E) Second Initial Flow 45 Hourly Standby _____ T-Out 10:58 pm
 (F) Second Final Flow 58 Mileage 36 R/T 36 Comments _____
 (G) Final Shut-In 933 Sampler _____
 (H) Final Hydrostatic 11653 Straddle _____ EM Tool _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Sub Total 1236 Accessibility _____ Total 1236
 Sub Total 1236 MP/DST Disc't _____

Approved By _____ Our Representative Raymond J. Foster

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 66315

NO.

Well Name & No. Schmeidler Trust #1-33 Test No. 3 Date 9-13-19
 Company DNPC T Elevation 2180 KB 2174 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 33 Twp 12S Rge. 20W Co. Ellis State Ks

Interval Tested 3615' - 3690' Zone Tested LKC-H-J
 Anchor Length 75' Drill Pipe Run 3581.13' Mud Wt. 9.1
 Top Packer Depth 3610' Drill Collars Run 32.52' Vis 50
 Bottom Packer Depth 3615' Wt. Pipe Run Ø WL 8
 Total Depth 3690' Chlorides 6000 ppm System LCM 2#

Blow Description IFF - surface blow built up to 1/4" then died to faint blow
ISE - No Return
FFP - No Surface blow
ESI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>5'</u>	<u>OSM</u>	<u>spots</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 5' BHT 108°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1781 Test 1200 T-On Location 1:10pm
 (B) First Initial Flow 17 Jars _____ T-Started 1:48pm
 (C) First Final Flow 19 Safety Joint _____ T-Open 3:39pm
 (D) Initial Shut-In 260 Circ Sub _____ T-Pulled 5:39pm
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 7:19pm
 (F) Second Final Flow 23 Mileage 36 R/T 36 Comments _____
 (G) Final Shut-In 96 Sampler _____
 (H) Final Hydrostatic 1701 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 1236 Accessibility _____ Sub Total 0
 Total 1236 MP/DST Disc't _____

Approved By _____ Our Representative Royal Foster

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket 66316

NO.

Well Name & No. Schmeidler Trust #1-33 Test No. 4 Date 9-14-19
 Company DNOC I Elevation 2180 KB 2174 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 33 Twp 12S Rge. 20W Co. Ellis State Ks

Interval Tested 3186'-3720 Zone Tested LKC-"K"
 Anchor Length 34' Drill Pipe Run 3144.100' Mud Wt. 9.1
 Top Packer Depth 3181' Drill Collars Run 31.52' Vis 50
 Bottom Packer Depth 3186' Wt. Pipe Run 0 WL 8
 Total Depth 3720' Chlorides 4000 ppm System LCM 2 #

Blow Description TFP - Surface blow built up to a little over 1 1/4"
ISI - No Return
FFP - A faint surface just started at the end of the 30min
FSI - No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>15'</u>	<u>asm</u>	<u>Spots</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 108°F Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1790 Test 1200 T-On Location 1:20am
 (B) First Initial Flow 16 Jars _____ T-Started 1:57am
 (C) First Final Flow 26 Safety Joint _____ T-Open 3:44am
 (D) Initial Shut-In 893 Circ Sub _____ T-Pulled 5:44am
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 7:09am
 (F) Second Final Flow 32 Mileage 310 R/T 36 + 36 Comments picked up tool
 (G) Final Shut-In 831 Sampler _____ 9-14-19 from 10:50pm to
 (H) Final Hydrostatic 1745 Straddle _____ 11:25pm
 EM Tool _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1272
 Sub Total 1272 MP/DST Disc't _____

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.

SWIFT Services, Inc.

DATE **9-7-19** PAGE NO.

CUSTOMER **Downing-Nelson** WELL NO. **1-33** LEASE **Schneider Trust** JOB TYPE **Shallow Surf** TICKET NO. **32605**

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							On location
								CSG - 8 5/8
								RTO - 221
								Pipe - 220.67
	2000							START Running CSG
	2030							Break Circ on Bottom
	2045	4.25	5			100		pump with spacer
		4.25	36			200		pump CNT - 150 sts @ 14.7 rpm
		4.25	12.75			400		Disp
								2000
								Circ 30 sts CNT 40 p.2
	2100							JOB Complete
								THANKS
								David, Zach & Kirby

SWIFT Services, Inc.

DATE: 09/15/19 PAGE NO. 1

CUSTOMER: Dawson + Nelson WELL NO: 1-33 LEASE: Schneidler Trust JOB TYPE: PTA TICKET NO: 92580

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0145							On location, set up trucks
								Plugging Orders 1 st Plug @ 1600' w/ 50 SKS 2 nd Plug @ 775' w/ 100 SKS 3 rd Plug @ 275' w/ 50 SKS 4 th Plug @ 40' w/ 10 SKS Rathole - 30 SKS Mousehole - 15 SKS
	0215	4	10					1 st Plug @ 1600'
		4	13					Start water ahead
	0230	4	12					Pump Cont - 50 SKS
								Pump water, Finish
								Pull up to 775'
	0300	4	3					Start water ahead
		4	26					Pump Cont - 100 SKS
	0310	4	1					Pump Water, Finish
								Pull up to 275'
	0325	4	1					Pump Water ahead
		4	13					Pump Cont - 50 SKS
		4	1					Pump Water, Finish
								Pull up to 40', Top
		1	3					Top off w/ 10 SKS
	0425	1	8					Plug Rathole w/ 30 SKS
		1	4					Plug Mousehole w/ 15 SKS
	0445							Wash up Rack up Job Complete
								Thank You Jon, Austin, Isaac

Marc A. Downing
Consulting Petroleum Geologist

Geologic Report
Drilling Time and Sample Log

Operator Downing-Nelson Oil Co., Inc.		Elevation KB 2186 DF 2184 GL 2178	
Lease Schmeidler Trust	No. 1-33	Casing Record Surface 8 5/8" @ 221' Production None Electrical Surveys None	
API# 15-051-26967-0000		Field Ellis	
Location 800' FSL & 2145' FWL			
Sec. 33	Twp. 12s	Rge. 20w	
County Ellis		State Kansas	
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	1543		+643 -1
Base Anhydrite	1589		+597 -3
Topeka	3228		-1042 NA
Heebner	3457		-1271 +7
Toronto	3479		-1293 +5
LKC	3494		-1308 +8
BKC	3746		-1560 +5
Marmaton	3805		-1619 FL
Total Depth	3887		-1701

Reference Well For Structural Comparison **Cook & Galloway - Erbert #1**
 SW-SE-SW, Sec. 33-12s-20w

Drilling Contractor **Discovery Drilling, Rig #4**
 Commenced **9-7-19** Completed **9-14-19**
 Samples Saved From **3200** To **RTD**
 Drilling Time Kept From **3100** To **RTD**
 Samples Examined From **3200** To **RTD**
 Geological Supervision From **3200** To **RTD**

Summary and Recommendations
 Due to structural position and DST recovery, it was decided to plug and abandon the well. All significant shows were evaluated by DST and Ar buckle was not encountered.

Respectfully Submitted,
 Marc A. Downing

ROCK TYPES
 Carbon Sh shale, red
 shale, grey
 shale, green
 shale, grey
 Chert, dark
 Chert, white
 Chert, light
 Chert, dark
 Chert, white

ACCESSORIES
 Stringer
 Red shale
 Card shale

OTHER SYMBOLS
 DST
 DST Int
 DST alt
 DST tail pipe

MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

OIL SHOWS
 Even Stn
 Spotted Stn 50-75%
 Spotted Stn 25-50%
 Spotted Stn 1-25%
 Questionable Stn
 Dead Oil Stn
 Fluorescence

MINERAL
 Chert, dark
 Chert, white

STRIPING
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 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt