



## 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:

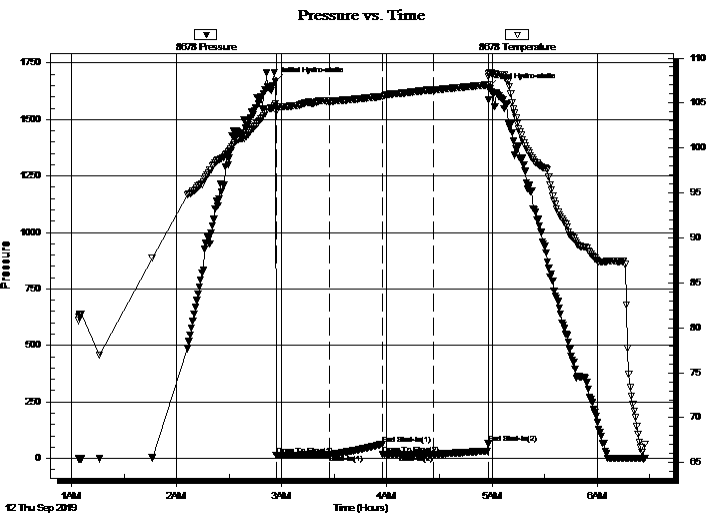
2019.09.12 @ 04:58:15

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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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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
<b>Total Tool Length:</b>	<b>55.00</b>				



**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 in<sup>3</sup>

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

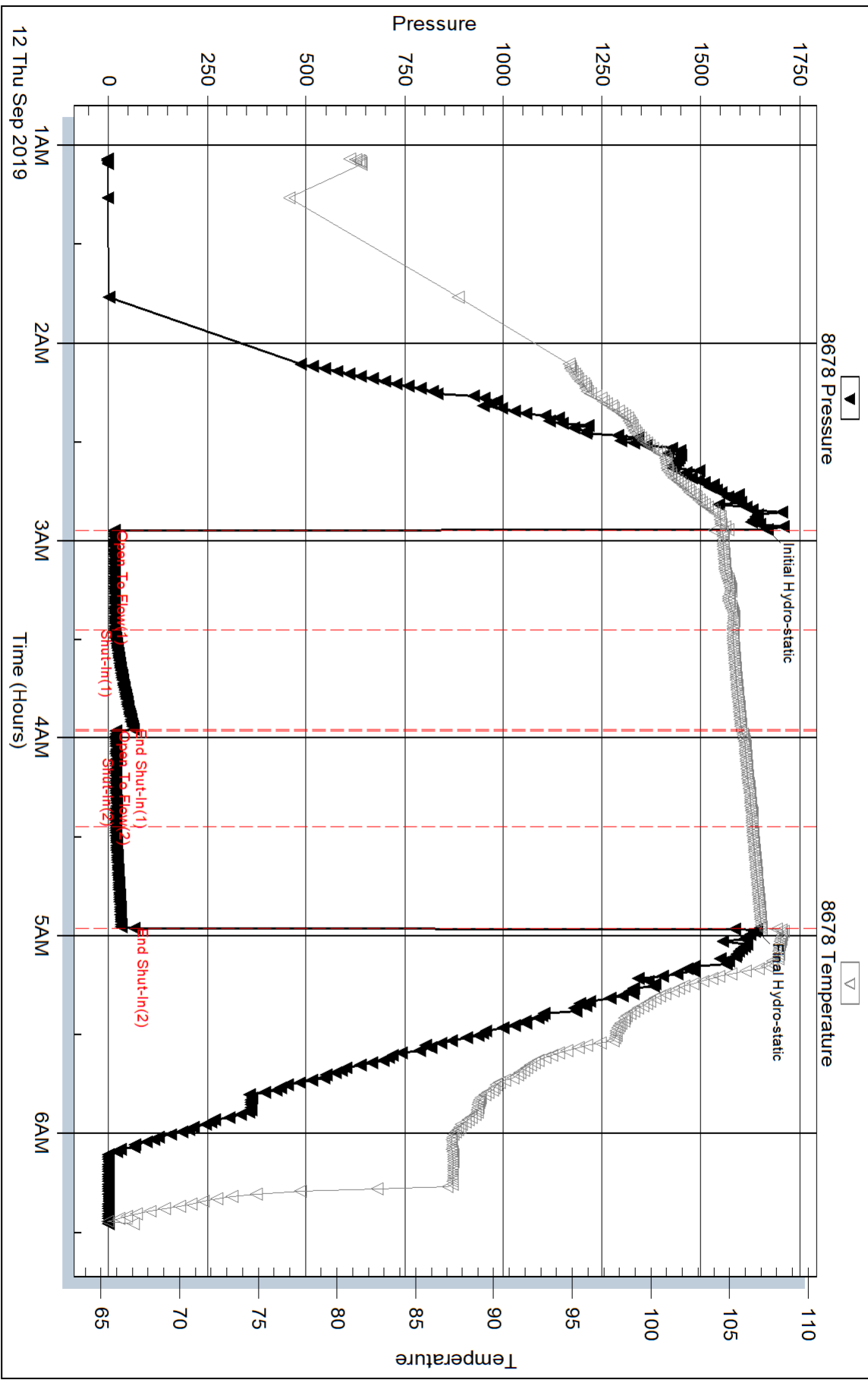
Serial #:

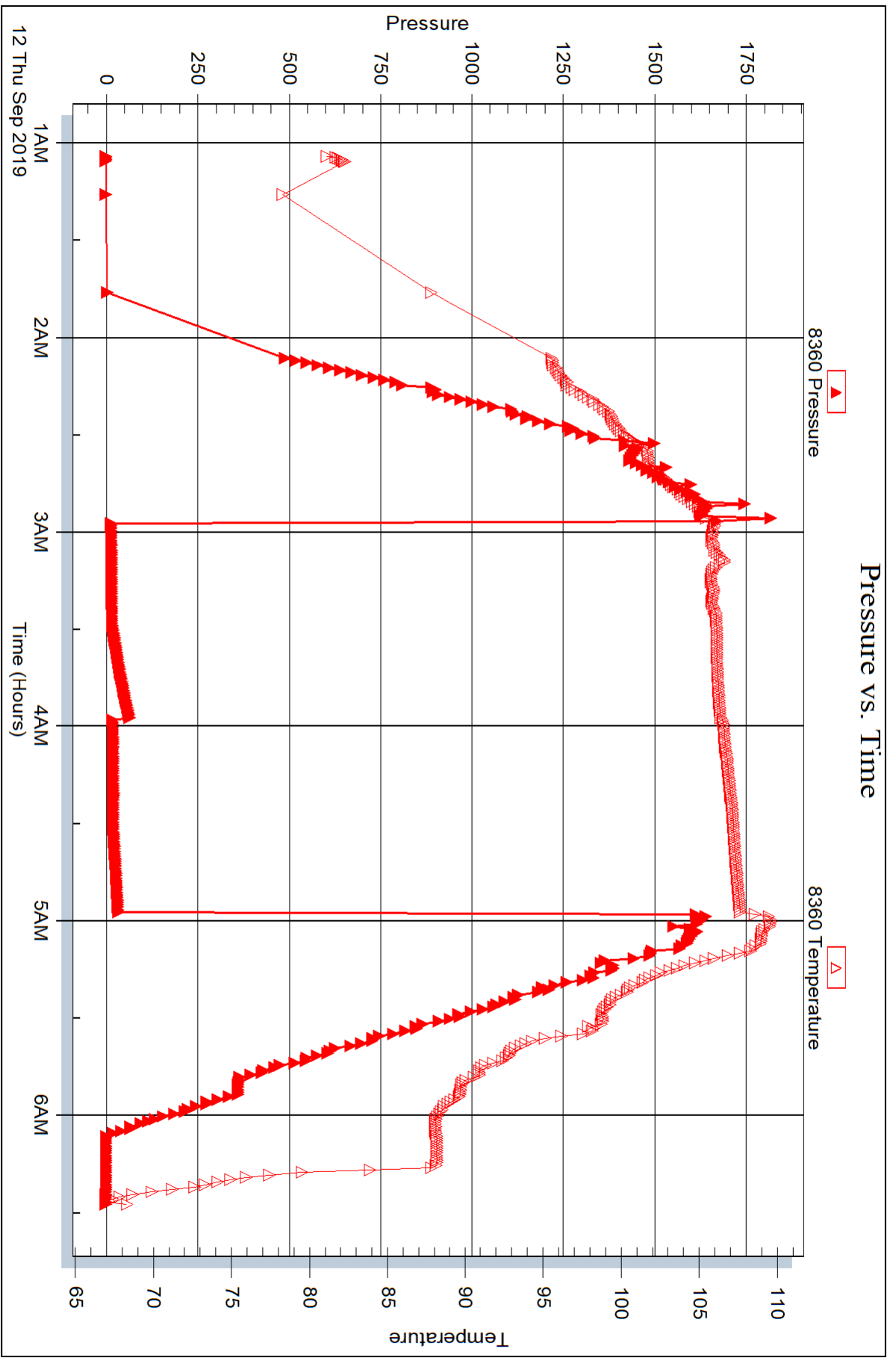
Laboratory Name:

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

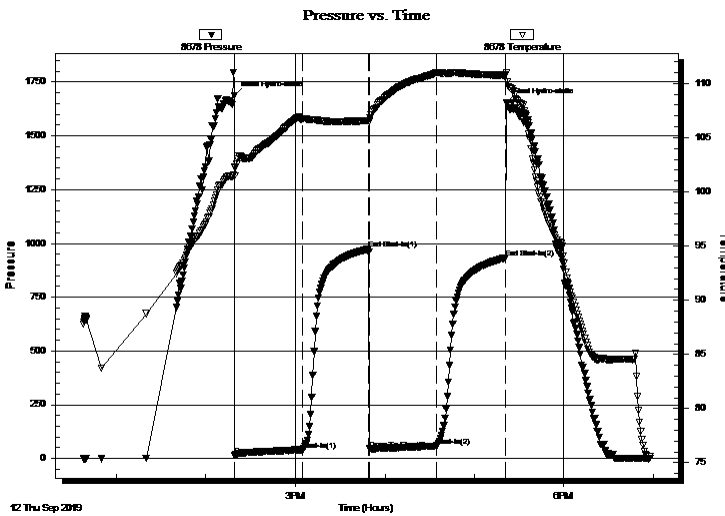
Start Time: 12:38:05 End Time: 18:57:59

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
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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
<b>Total Tool Length:</b>	<b>45.00</b>				



**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 in<sup>3</sup>

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

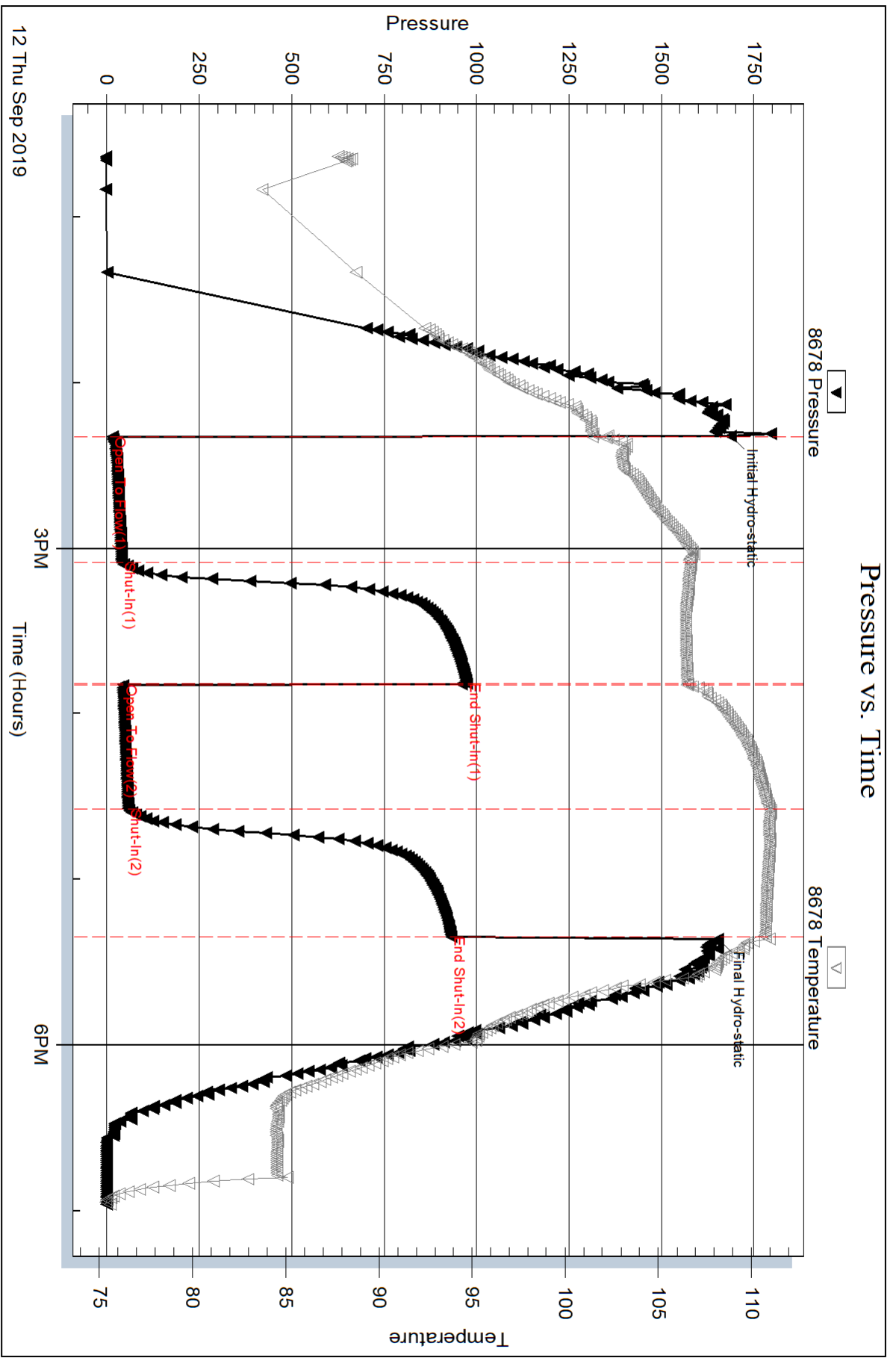
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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



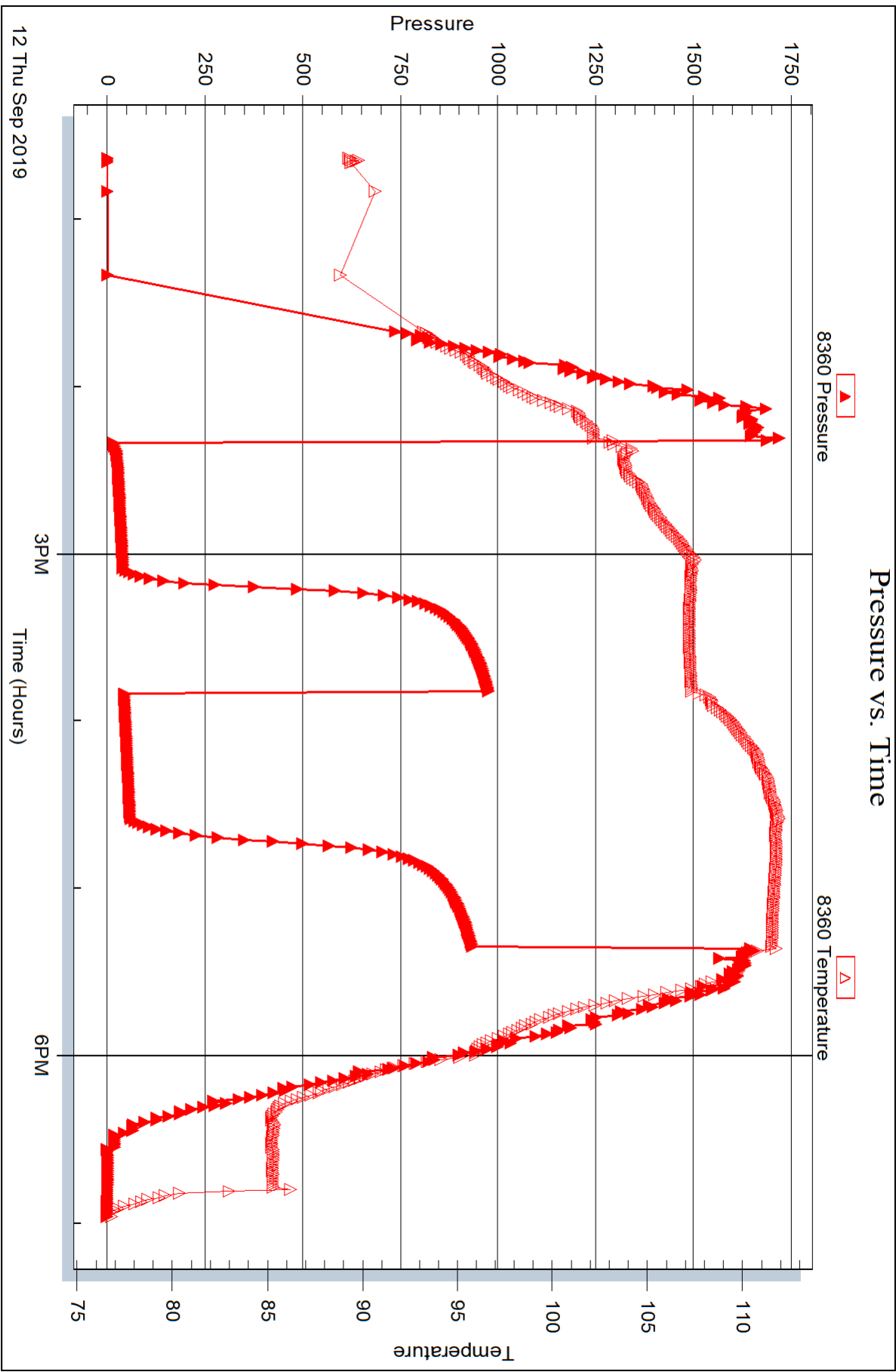
Serial #: 8360

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

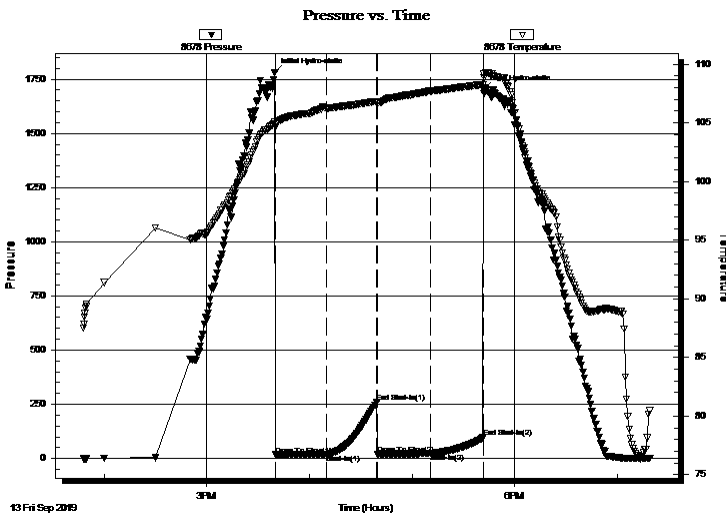
**TEST COMMENT:** 30 - IFP - Surface blow built up to 1/4" then died to a faint blow

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:

bbbl

Water Loss: 7.99 in<sup>3</sup>

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

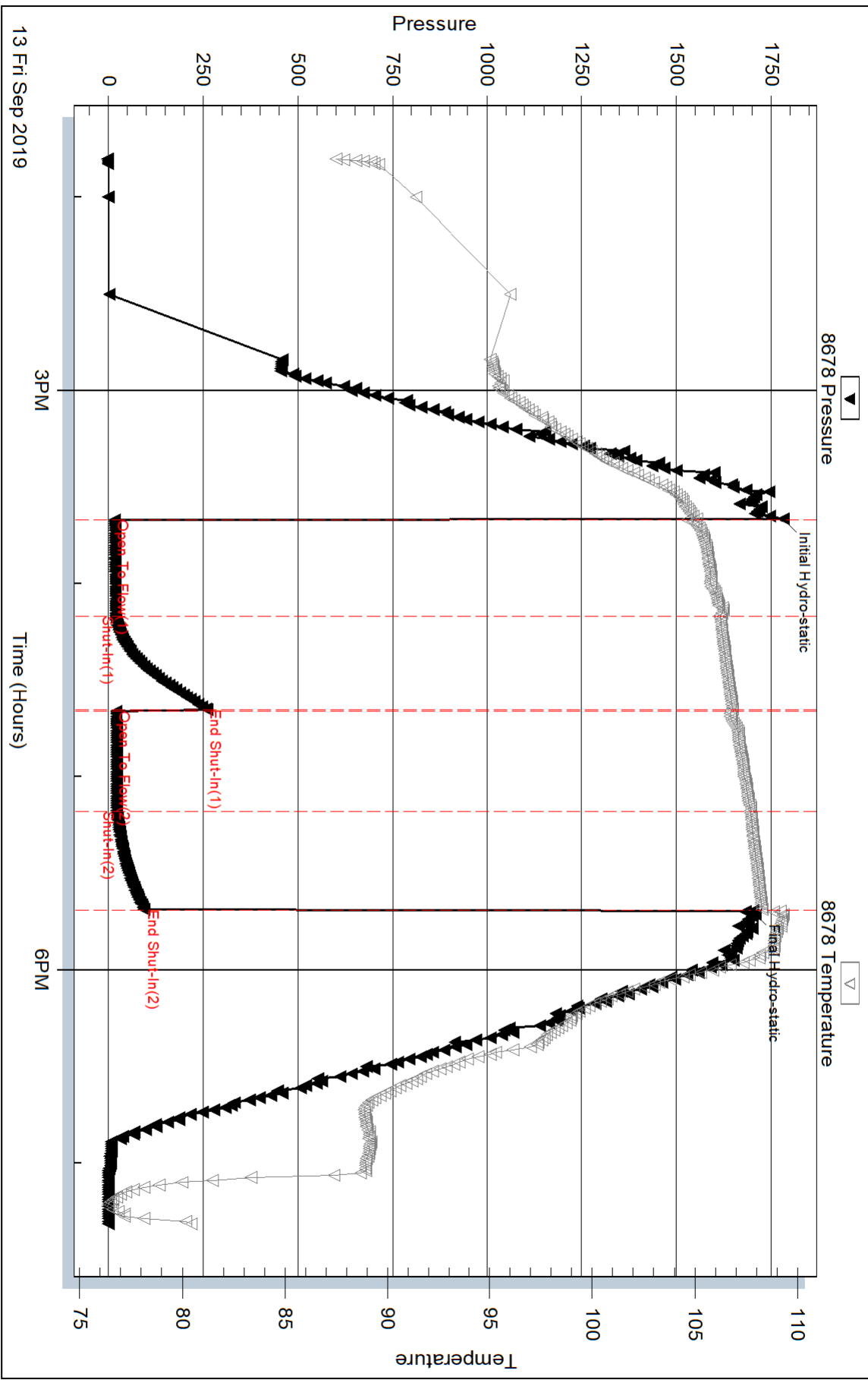
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## 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:

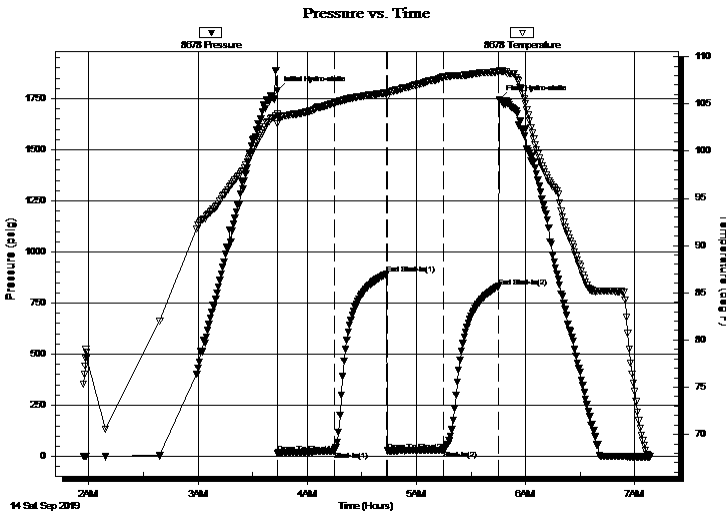
2019.09.14 @ 03:43:30

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

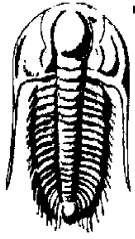
Length (ft)	Description	Volume (bbl)
15.00	OSM - Oil Spots - 100%m	0.07

## 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 between 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
<b>Total Tool Length:</b>	<b>54.00</b>				



**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: bbl

Water Loss: 7.99 in<sup>3</sup>

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

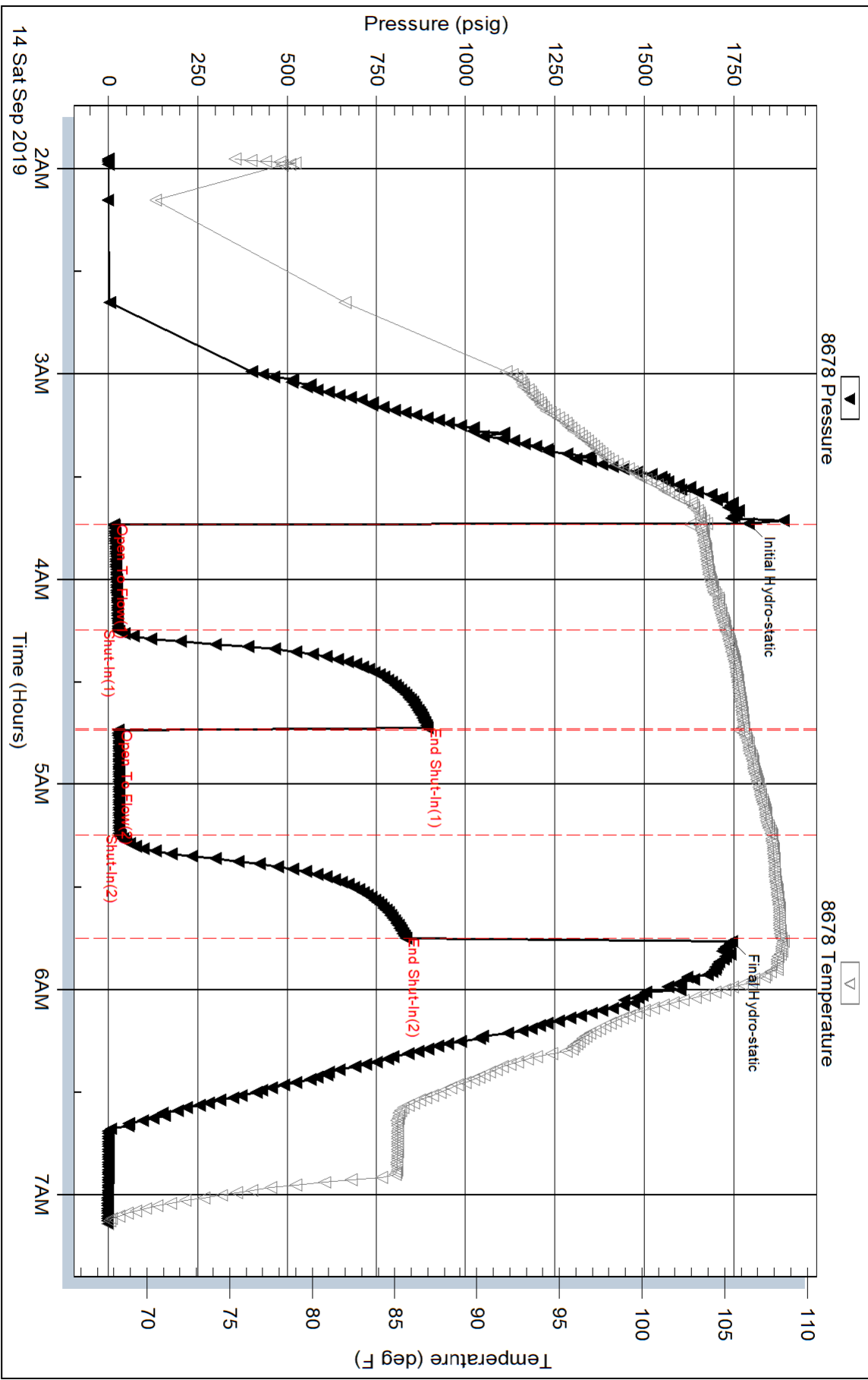
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



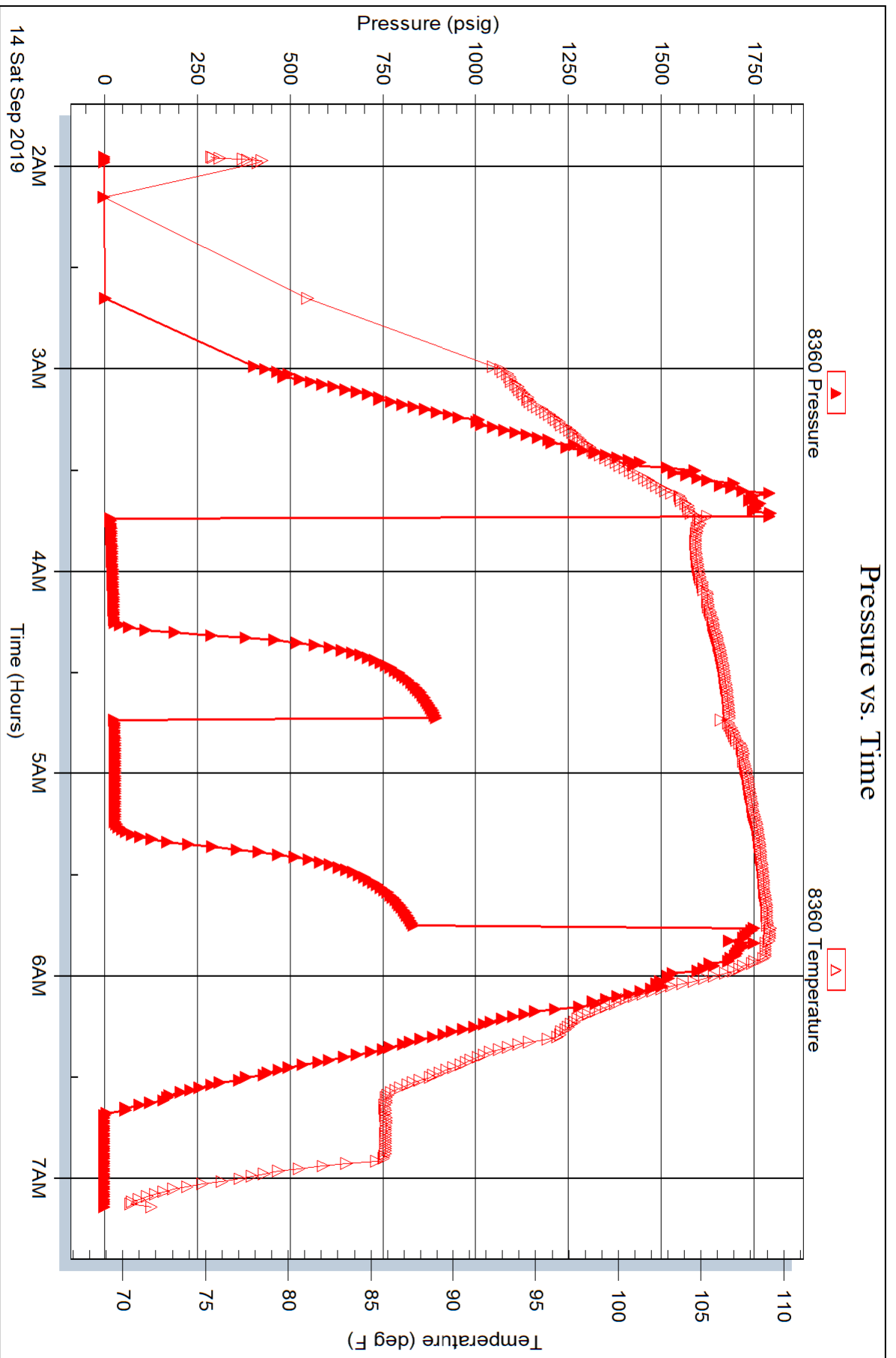
Serial #: 8360

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  
 Sub Total 1236  Accessibility \_\_\_\_\_ Total 1236

Approved By \_\_\_\_\_ Our Representative Royal [Signature] MP/DST Disc't \_\_\_\_\_

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 Discover/ #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 \_\_\_\_\_

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

Approved By \_\_\_\_\_ Our Representative Raymond J. Estro

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# 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 IFP - Surface blow built up to a little over 1 1/4"  
ISI - No Return  
IFP - 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 Russell [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.