



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

**30-9s-23w Graham,KS**

**Wendelin Herman #1-30**

Start Date: 2013.05.07 @ 10:56:00

End Date: 2013.05.07 @ 17:48:00

Job Ticket #: 50291                      DST #: 1

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

Printed: 2013.05.15 @ 10:07:17

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 1

KC "C-D"

2013.05.07



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50291

**DST#: 1**

Test Start: 2013.05.07 @ 10:56:00

## GENERAL INFORMATION:

Formation: **KC "C-D"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 13:02:00  
 Time Test Ended: 17:48:00  
 Interval: **3860.00 ft (KB) To 3907.00 ft (KB) (TVD)**  
 Total Depth: 3907.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2481.00 ft (KB)  
 2474.00 ft (CF)  
 KB to GR/CF: 7.00 ft

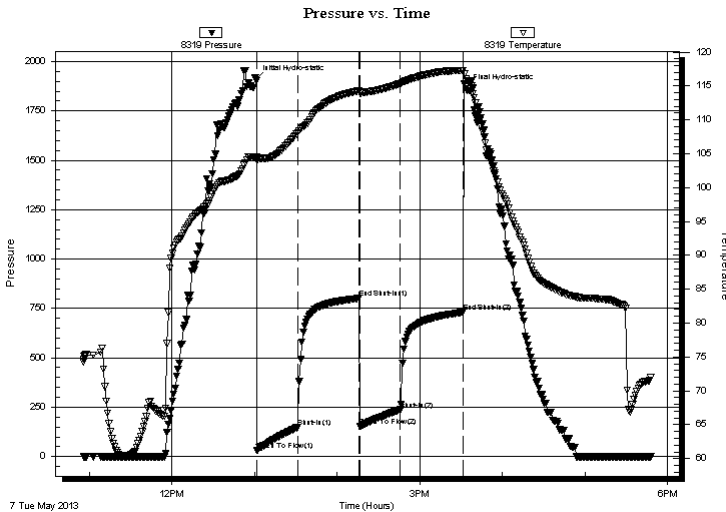
## Serial #: 8319

Inside

Press @ Run Depth: 236.81 psig @ 3861.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.07 End Date: 2013.05.07 Last Calib.: 2013.05.07  
 Start Time: 10:56:05 End Time: 17:47:59 Time On Btm: 2013.05.07 @ 13:01:00  
 Time Off Btm: 2013.05.07 @ 15:33:30

TEST COMMENT: IF-BOB in 4"  
 ISI-BOB in 22 min  
 FF-BOB in 7 min  
 FSI-BOB in 12 min

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1906.59	104.52	Initial Hydro-static
1	33.02	104.04	Open To Flow (1)
31	148.67	108.12	Shut-In(1)
75	801.97	114.27	End Shut-In(1)
76	151.96	113.95	Open To Flow (2)
105	236.81	115.35	Shut-In(2)
151	733.26	117.30	End Shut-In(2)
153	1864.22	116.04	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
250.00	Oil spotted SMCW	3.51
60.00	GSWOCM 20%G 20%O 10%W 50%M	0.84
250.00	GO 30%G 70%O	3.51
0.00	1395 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50291

**DST#: 1**

Test Start: 2013.05.07 @ 10:56:00

## Tool Information

Drill Pipe:	Length: 3864.00 ft	Diameter: 3.80 inches	Volume: 54.20 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 54.20 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial	44000.00 lb
Depth to Top Packer:	3860.00 ft			Final	46000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	68.00 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			3840.00	
Shut In Tool	5.00			3845.00	
Hydraulic tool	5.00			3850.00	
Packer	5.00			3855.00	21.00 Bottom Of Top Packer
Packer	5.00			3860.00	
Stubb	1.00			3861.00	
Recorder	0.00	8319	Inside	3861.00	
Recorder	0.00	8166	Outside	3861.00	
Perforations	2.00			3863.00	
Change Over Sub	1.00			3864.00	
Drill Pipe	32.00			3896.00	
Change Over Sub	1.00			3897.00	
Perforations	7.00			3904.00	
Bullnose	3.00			3907.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

Job Ticket: 50291

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2013.05.07 @ 10:56:00

## 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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
250.00	Oil spotted SMCW	3.507
60.00	GSWOCM 20%G 20%O 10%W 50%M	0.842
250.00	GO 30%G 70%O	3.507
0.00	1395 GIP	0.000

Total Length: 560.00 ft

Total Volume: 7.856 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

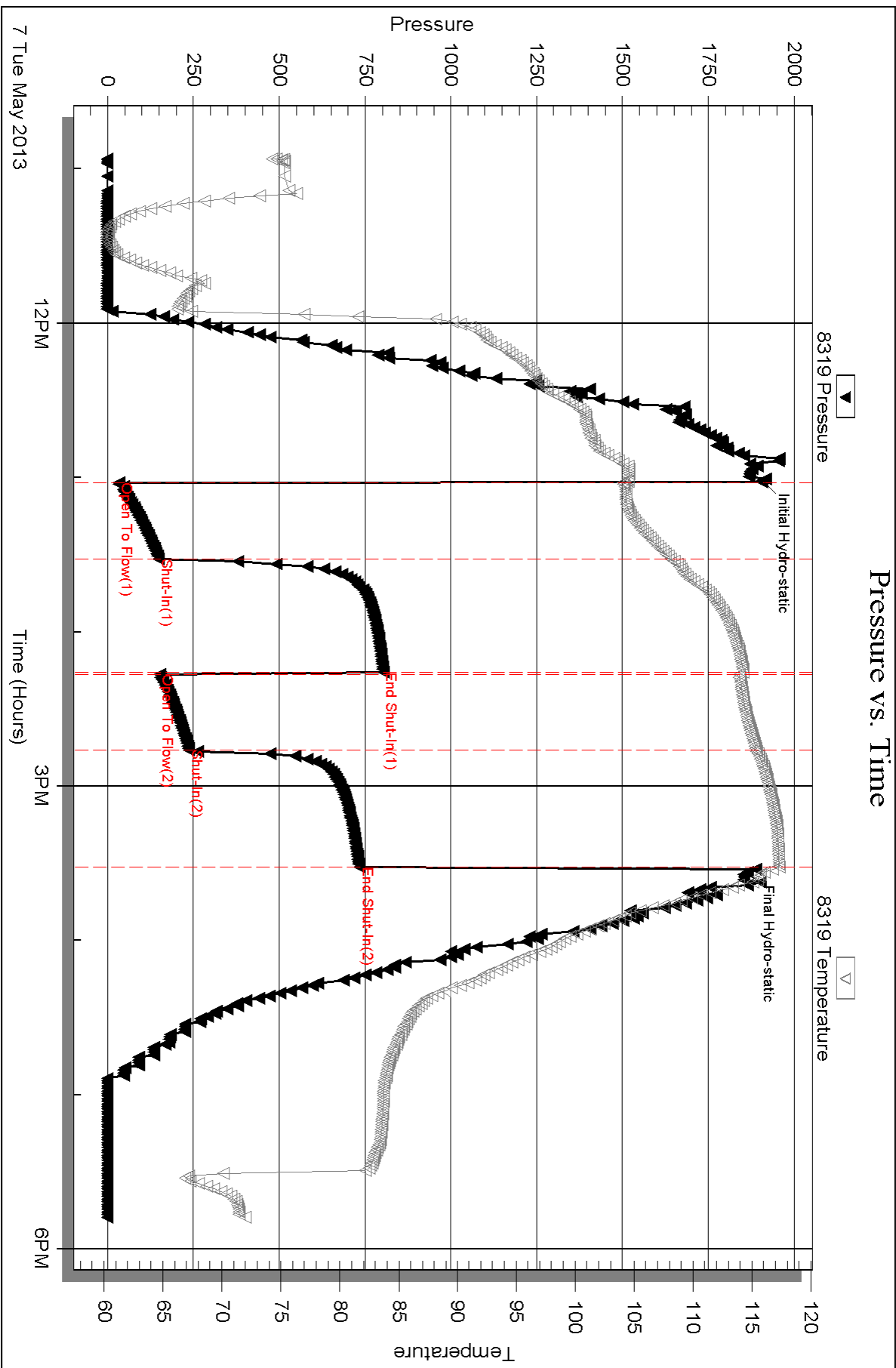
Serial #: 8319

Inside

Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50291

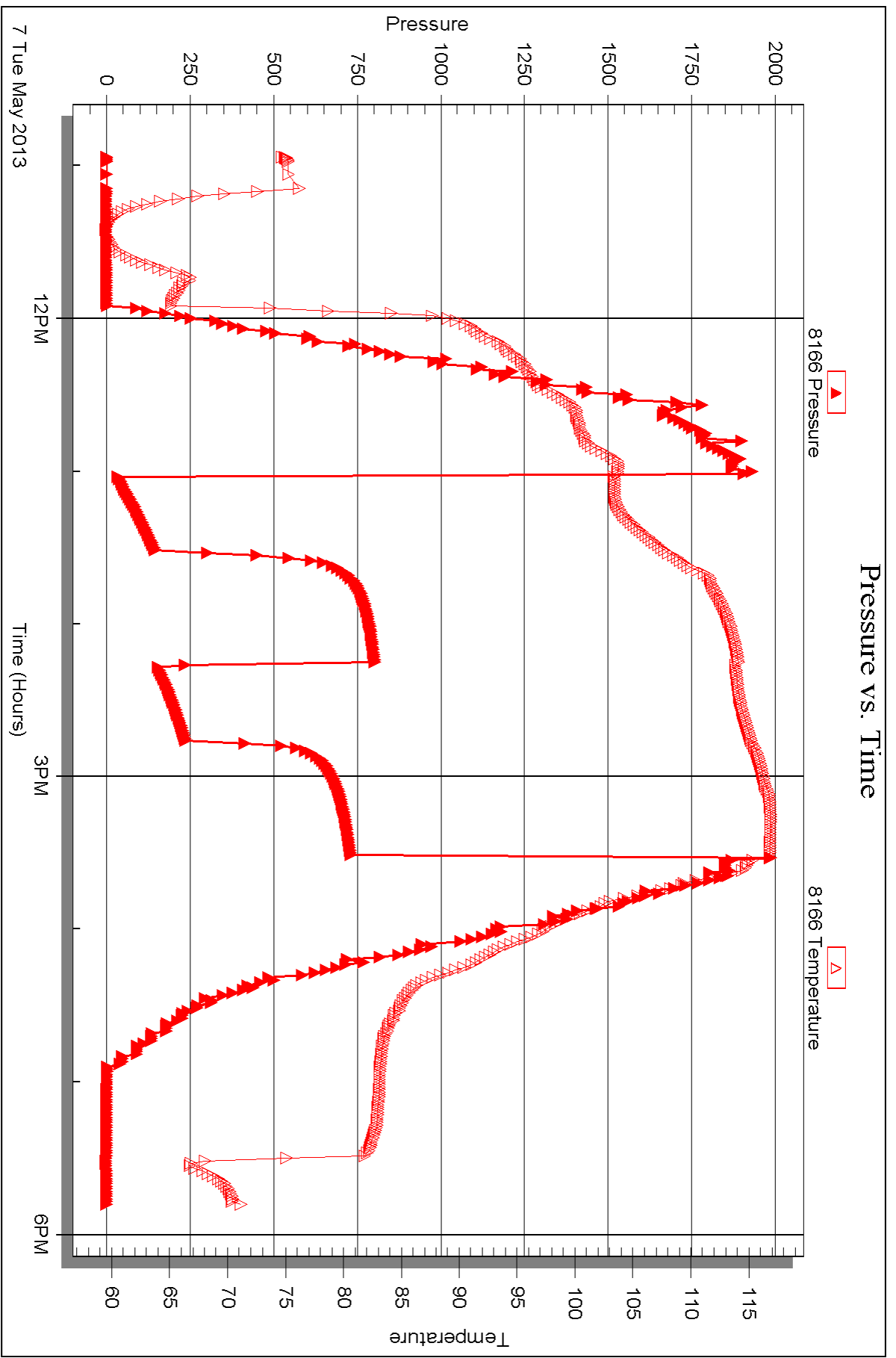
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Serial #: 8166

Outside Dow nging-Nelson Oil Co.

30-9s-23w Graham,KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 50291

Printed: 2013.05.15 @ 10:07:20



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

**30-9s-23w Graham,KS**

**Wendelin Herman #1-30**

Start Date: 2013.05.08 @ 00:30:00

End Date: 2013.05.08 @ 06:59:00

Job Ticket #: 50292                      DST #: 2

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

Printed: 2013.05.15 @ 10:06:44

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 2

KC "F"

2013.05.08





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50292

**DST#: 2**

Test Start: 2013.05.08 @ 00:30:00

## GENERAL INFORMATION:

Formation: **KC "F"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 02:23:00  
 Time Test Ended: 06:59:00  
 Interval: **3899.00 ft (KB) To 3926.00 ft (KB) (TVD)**  
 Total Depth: 3926.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Brett Dickinson  
 Unit No: 59  
 Reference Elevations: 2481.00 ft (KB)  
 2474.00 ft (CF)  
 KB to GR/CF: 7.00 ft

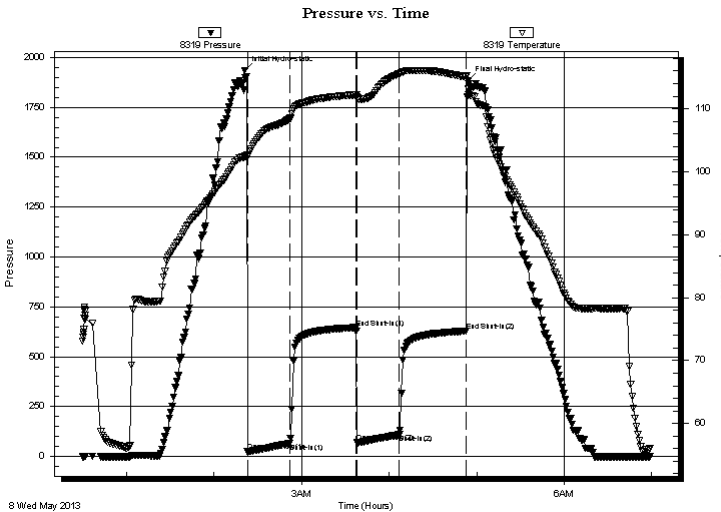
## Serial #: 8319

Inside

Press @ Run Depth: 109.33 psig @ 3900.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2013.05.08 End Date: 2013.05.08 Last Calib.: 2013.05.08  
 Start Time: 00:30:05 End Time: 06:58:59 Time On Btm: 2013.05.08 @ 02:21:00  
 Time Off Btm: 2013.05.08 @ 04:54:00

TEST COMMENT: IF-BOB in 5 min  
 ISI-No blow  
 FF-BOB in 5 min  
 FSI-1 1/2" blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1935.41	102.35	Initial Hydro-static
2	23.81	102.44	Open To Flow (1)
31	65.84	108.41	Shut-In(1)
76	645.96	112.19	End Shut-In(1)
77	69.11	111.94	Open To Flow (2)
106	109.33	115.54	Shut-In(2)
152	628.64	115.08	End Shut-In(2)
153	1881.64	113.12	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
190.00	GSMCO 25%G 65%O 10%M	2.67
80.00	GO 20%G 80%O	1.12
0.00	1240ft GIP	0.00

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50292

**DST#: 2**

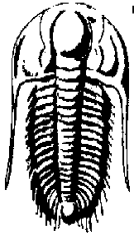
Test Start: 2013.05.08 @ 00:30:00

## Tool Information

Drill Pipe:	Length: 3894.00 ft	Diameter: 3.80 inches	Volume: 54.62 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 54.62 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3899.00 ft			Final	44000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	27.00 ft				
Tool Length:	48.00 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			3879.00	
Shut In Tool	5.00			3884.00	
Hydraulic tool	5.00			3889.00	
Packer	5.00			3894.00	21.00 Bottom Of Top Packer
Packer	5.00			3899.00	
Stubb	1.00			3900.00	
Recorder	0.00	8319	Inside	3900.00	
Recorder	0.00	8166	Outside	3900.00	
Perforations	23.00			3923.00	
Bullnose	3.00			3926.00	27.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>48.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

Job Ticket: 50292

**DST#: 2**

ATTN: Ron Nelson

Test Start: 2013.05.08 @ 00:30:00

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
190.00	GSMCO 25%G 65%O 10%M	2.665
80.00	GO 20%G 80%O	1.122
0.00	1240ft GIP	0.000

Total Length: 270.00 ft

Total Volume: 3.787 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

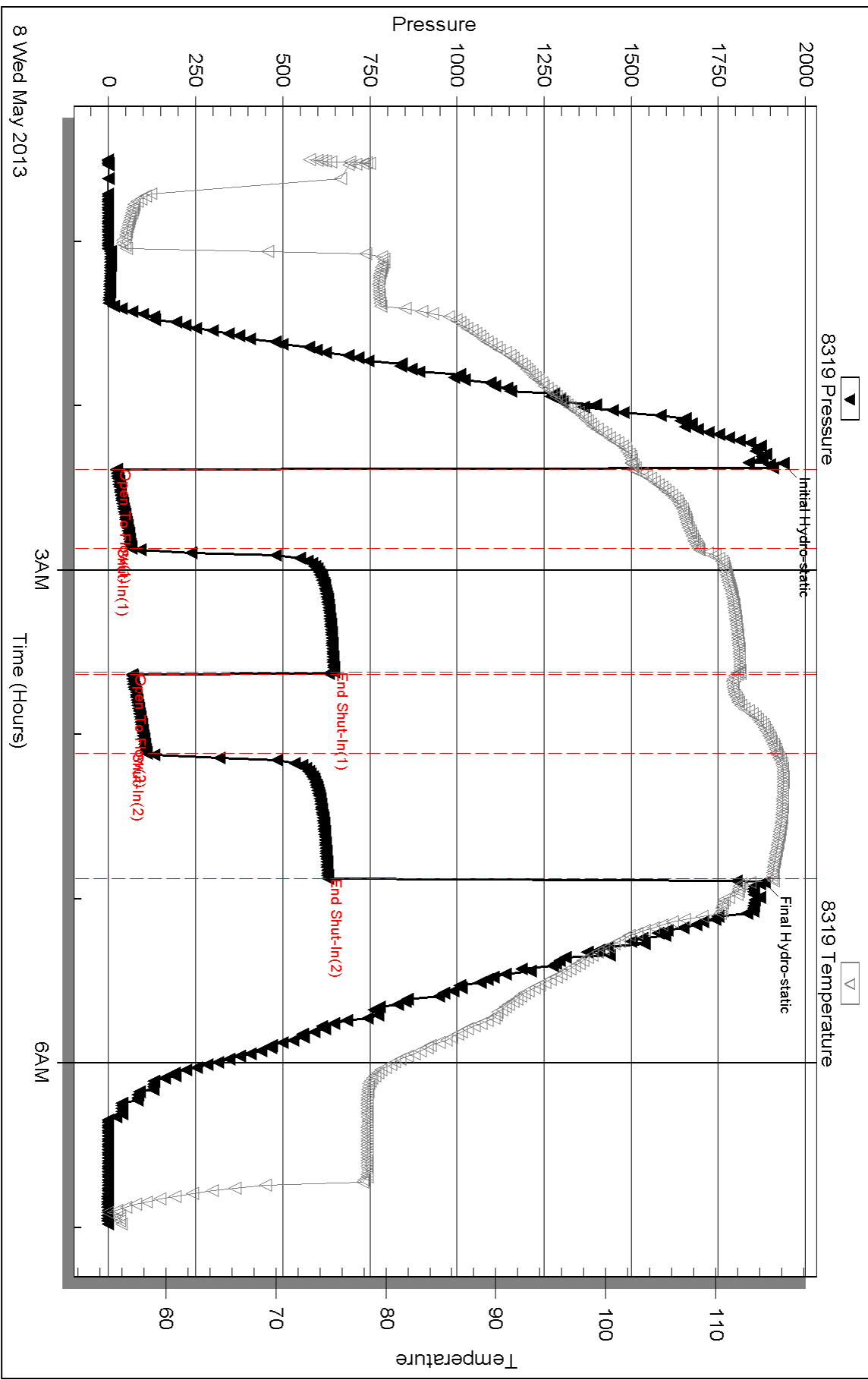
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time



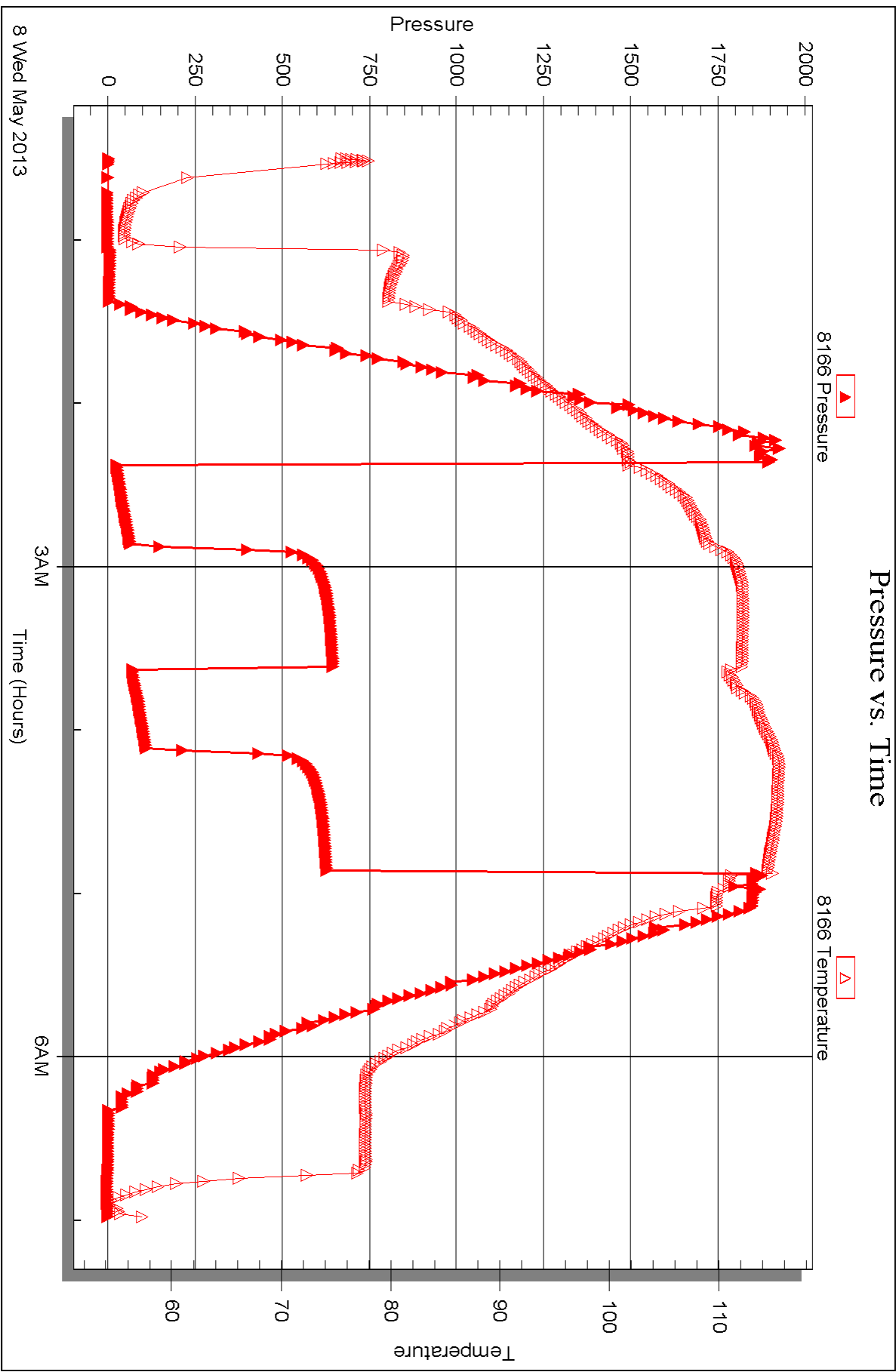
Serial #: 8166

Outside

Dow nung-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 2





## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Ron Nelson

**30-9s-23w Graham,KS**

**Wendelin Herman #1-30**

Start Date: 2013.05.08 @ 18:55:00

End Date: 2013.05.09 @ 01:08:30

Job Ticket #: 50293                      DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.05.15 @ 10:06:04

Downing-Nelson Oil Co.

Wendelin Herman #1-30

30-9s-23w Graham,KS

DST # 3

KC "I-J"

2013.05.08



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50293

**DST#: 3**

Test Start: 2013.05.08 @ 18:55:00

## GENERAL INFORMATION:

Formation: **KC"I-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:31:00

Time Test Ended: 01:08:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

**Interval: 3979.00 ft (KB) To 4026.00 ft (KB) (TVD)**

Reference Elevations: 2481.00 ft (KB)

Total Depth: 4026.00 ft (KB) (TVD)

2474.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

**Serial #: 8319**

**Inside**

Press @ Run Depth: 19.22 psig @ 3980.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.05.08

End Date:

2013.05.09

Last Calib.:

2013.05.09

Start Time: 18:55:05

End Time:

01:08:29

Time On Btm:

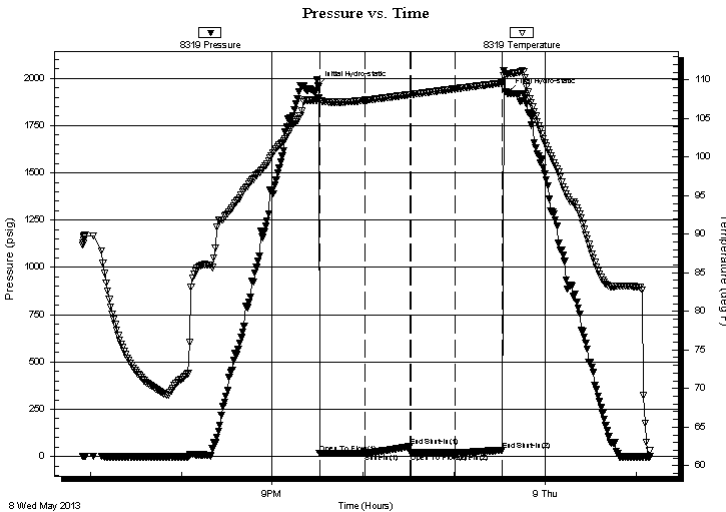
2013.05.08 @ 21:30:00

Time Off Btm:

2013.05.08 @ 23:35:00

**TEST COMMENT:** IF-1/4" blow  
IS-No blow  
FF-No blow  
FS-No blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1959.52	107.56	Initial Hydro-static
1	17.22	107.20	Open To Flow (1)
31	18.87	107.36	Shut-In(1)
61	52.61	108.09	End Shut-In(1)
62	18.62	108.11	Open To Flow (2)
90	19.22	108.84	Shut-In(2)
122	33.14	109.60	End Shut-In(2)
125	1922.37	110.77	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.07

## 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.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

ATTN: Ron Nelson

Job Ticket: 50293

**DST#: 3**

Test Start: 2013.05.08 @ 18:55:00

## Tool Information

Drill Pipe:	Length: 3991.00 ft	Diameter: 3.80 inches	Volume: 55.98 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.70 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 55.98 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	42000.00 lb
Depth to Top Packer:	3979.00 ft			Final	42000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	47.00 ft				
Tool Length:	68.00 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			3959.00	
Shut In Tool	5.00			3964.00	
Hydraulic tool	5.00			3969.00	
Packer	5.00			3974.00	21.00 Bottom Of Top Packer
Packer	5.00			3979.00	
Stubb	1.00			3980.00	
Recorder	0.00	8319	Inside	3980.00	
Recorder	0.00	8166	Outside	3980.00	
Perforations	2.00			3982.00	
Change Over Sub	1.00			3983.00	
Drill Pipe	32.00			4015.00	
Change Over Sub	1.00			4016.00	
Perforations	7.00			4023.00	
Bullnose	3.00			4026.00	47.00 Bottom Packers & Anchor

**Total Tool Length: 68.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dow ning-Nelson Oil Co.

**Wendelin Herman #1-30**

PO Box 1019  
Hays KS 67601

**30-9s-23w Graham,KS**

Job Ticket: 50293

**DST#: 3**

ATTN: Ron Nelson

Test Start: 2013.05.08 @ 18:55:00

**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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud	0.070

Total Length: 5.00 ft      Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

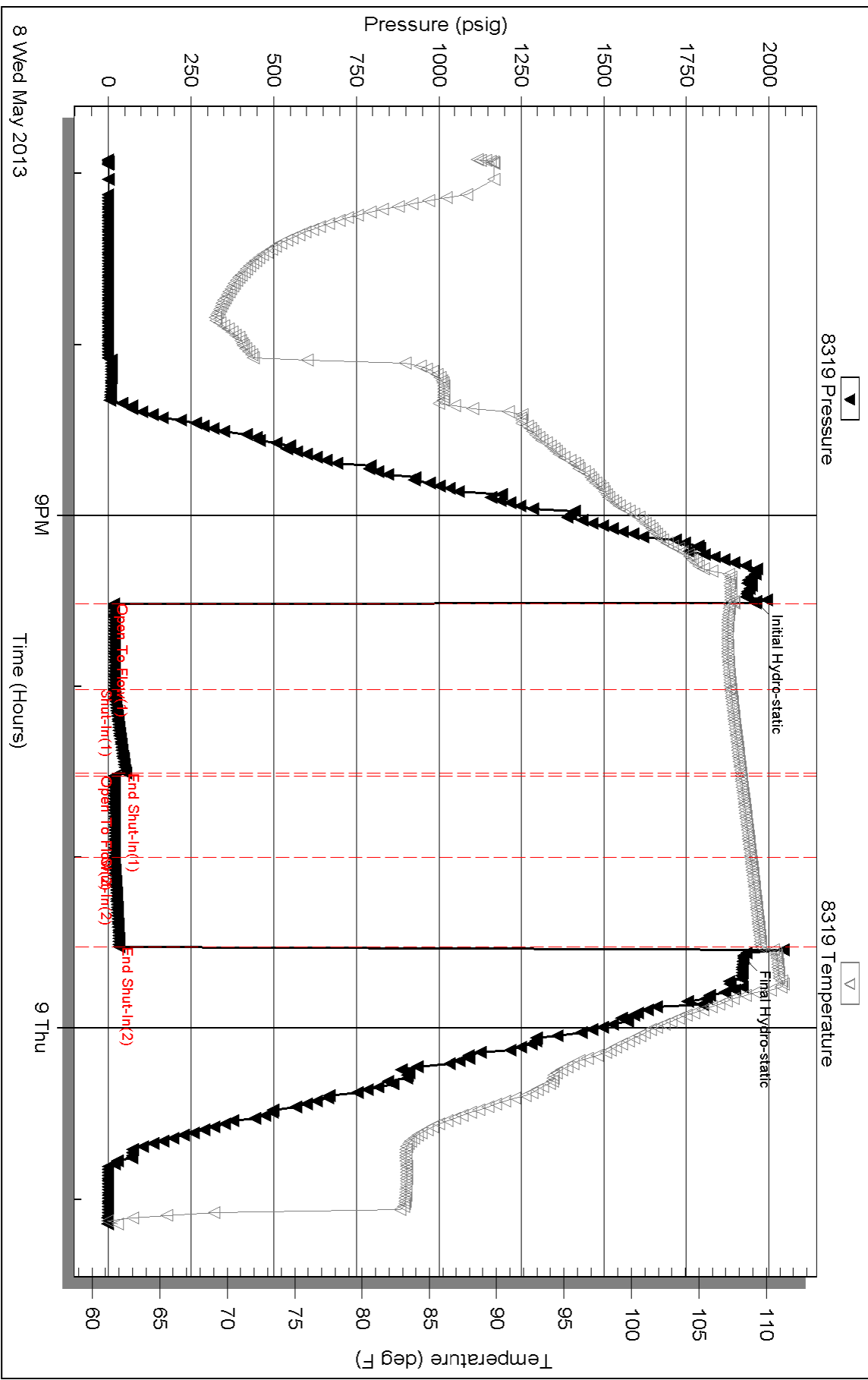
Inside

Dow nung-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 3

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 50293

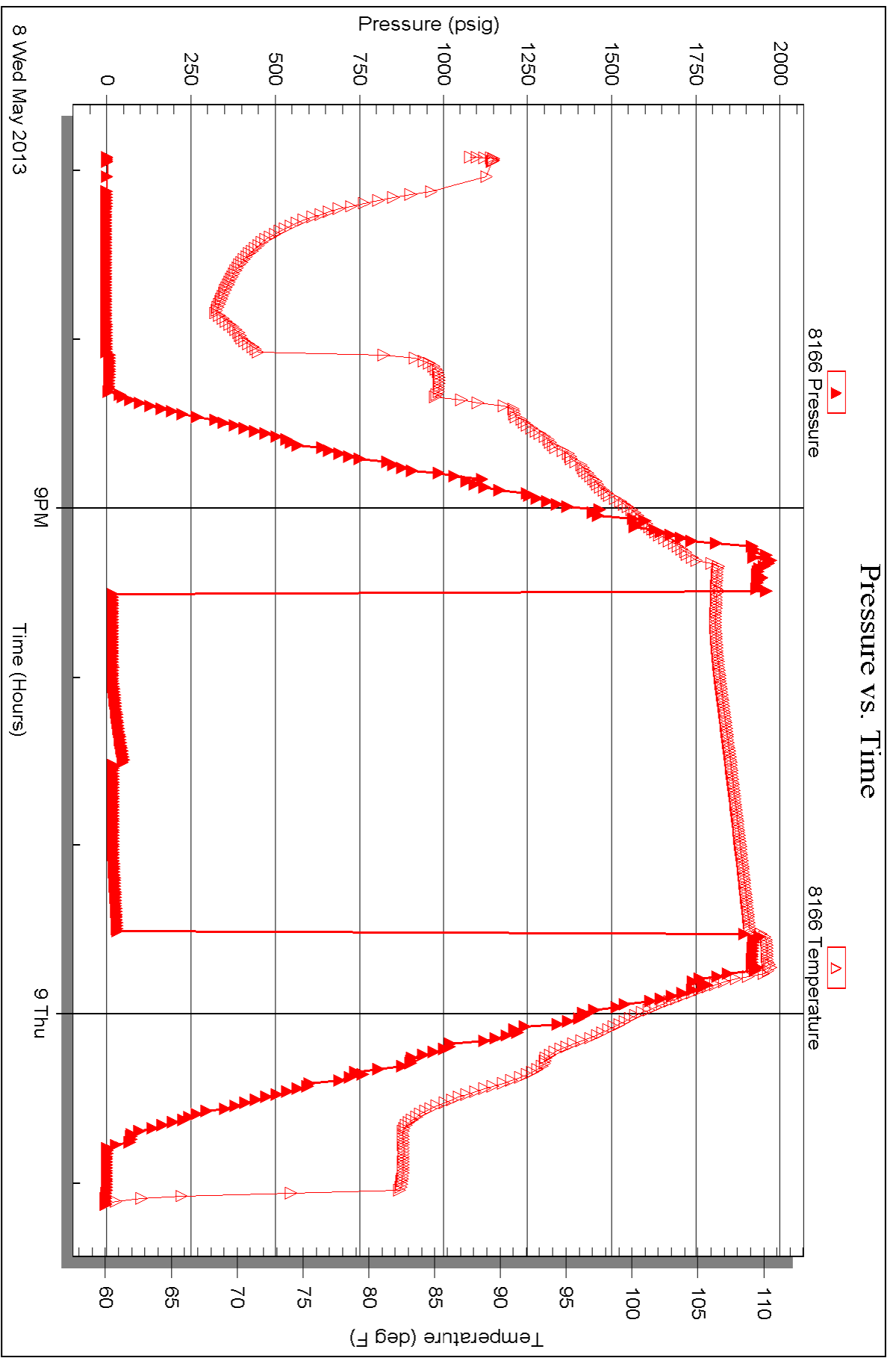
Printed: 2013.05.15 @ 10:06:07

Serial #: 8166

Outside Dow nting-Nelson Oil Co.

30-95-23w Graham,KS

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50291

Well Name & No. Wendelin Herman #1-30 Test No. 1 Date 5/2/13  
 Company Downing-Nelson Oil Co Inc. Elevation 2481 KB 2474 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery #1  
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3860-3907 Zone Tested KC" C, D"  
 Anchor Length 47 Drill Pipe Run 3864 Mud Wt. 8.9  
 Top Packer Depth 3855 Drill Collars Run — Vis 65  
 Bottom Packer Depth 3860 Wt. Pipe Run — WL 8.0  
 Total Depth 3907 Chlorides 1500 ppm System LCM #2

Blow Description FF - BOB in 4 min  
ISI - BOB in 22 min  
FF - BOB in 7 min  
ESI - BOB in 12 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>250</u>	<u>Feet of <del>250</del> oil spotted snow</u>			<u>90</u>	<u>10</u>
<u>60</u>	<u>Feet of GSWOCM</u>	<u>20</u>	<u>20</u>	<u>10</u>	<u>50</u>
<u>250</u>	<u>Feet of 60</u>	<u>30</u>	<u>70</u>		
<u>—</u>	<u>Feet of 1395 GP</u>				
<u>—</u>	<u>Feet of</u>				

Rec Total 560 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1,907  Test 1150 T-On Location 10:15  
 (B) First Initial Flow 33  Jars \_\_\_\_\_ T-Started 10:56  
 (C) First Final Flow 149  Safety Joint \_\_\_\_\_ T-Open 13:00  
 (D) Initial Shut-In 802  Circ Sub \_\_\_\_\_ T-Pulled 15:30  
 (E) Second Initial Flow 152  Hourly Standby \_\_\_\_\_ T-Out 17:50  
 (F) Second Final Flow 237  Mileage 116 rt 179.80 Comments \_\_\_\_\_  
 (G) Final Shut-In 733  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1,864  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Open 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Initial Shut-In 45  Day Standby \_\_\_\_\_ Total 1329.80  
 Final Flow 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Final Shut-In 45 Sub Total 1329.80

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. 50292

Well Name & No. Wendelin Herman #1-30 Test No. 2 Date 5/8/13  
 Company Powning-Nelson Oil Co Inc. Elevation 2481 KB 2474 GL  
 Address PO BOX 1019 Hays KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery #1  
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3899-3926 Zone Tested KC" F"  
 Anchor Length 27 Drill Pipe Run 3894 Mud Wt. 8.9  
 Top Packer Depth 3894 Drill Collars Run — Vis 65  
 Bottom Packer Depth 3899 Wt. Pipe Run — WL 8.0  
 Total Depth 3926 Chlorides 1,500 ppm System LCM 2  
 Blow Description IF - BOB in 5 min  
FSL - No blow  
FF - BOB in 5 min  
FSL - 1 1/2 in blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>80</u>	<u>60</u>	<u>20</u>	<u>80</u>		
<u>190</u>	<u>GSMCO</u>	<u>25</u>	<u>65</u>		<u>10</u>
<u>—</u>	<u>1240 FT GP</u>				
<u>—</u>					
<u>—</u>					

Rec Total 270 BHT 115 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1,935</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>00:05</u>
(B) First Initial Flow <u>24</u>	<input type="checkbox"/> Jars <u>—</u>	T-Started <u>00:30</u>
(C) First Final Flow <u>66</u>	<input type="checkbox"/> Safety Joint <u>—</u>	T-Open <u>2:22</u>
(D) Initial Shut-In <u>646</u>	<input type="checkbox"/> Circ Sub <u>—</u>	T-Pulled <u>4:52</u>
(E) Second Initial Flow <u>69</u>	<input type="checkbox"/> Hourly Standby <u>—</u>	T-Out <u>7:00</u>
(F) Second Final Flow <u>109</u>	<input checked="" type="checkbox"/> Mileage <u>116 RT</u> 179.80	Comments <u>—</u>
(G) Final Shut-In <u>629</u>	<input type="checkbox"/> Sampler <u>—</u>	
(H) Final Hydrostatic <u>1,882</u>	<input type="checkbox"/> Straddle <u>—</u>	<input type="checkbox"/> Ruined Shale Packer <u>—</u>
	<input type="checkbox"/> Shale Packer <u>—</u>	<input type="checkbox"/> Ruined Packer <u>—</u>
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer <u>—</u>	<input type="checkbox"/> Extra Copies <u>—</u>
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder <u>—</u>	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby <u>—</u>	Total <u>1329.80</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Accessibility <u>—</u>	MP/DST Disc't <u>—</u>
	Sub Total <u>1329.80</u>	

Approved By \_\_\_\_\_ Our Representative Burt [Signature]

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 50293

Well Name & No. Wendelin - Herman #1-30 Test No. 3 Date 5/8/13  
 Company Dawning - Nelson Oil Co Inc. Elevation 2481 KB 2474 GL  
 Address PO Box 1019 Hays KS 67601  
 Co. Rep / Geo. Ron Nelson Rig Discovery #1  
 Location: Sec. 30 Twp. 9 Rge. 23 Co. Graham State KS

Interval Tested 3979 - 4026 Zone Tested KC "I, J"  
 Anchor Length 47 Drill Pipe Run 3991 Mud Wt. \_\_\_\_\_  
 Top Packer Depth 3974 Drill Collars Run \_\_\_\_\_ Vis \_\_\_\_\_  
 Bottom Packer Depth 3979 Wt. Pipe Run \_\_\_\_\_ WL \_\_\_\_\_  
 Total Depth 4026 Chlorides \_\_\_\_\_ ppm System LCM \_\_\_\_\_

Blow Description IF - 4 in blow died in 23 min  
ISI - No blow  
FF - No blow  
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				
_____	_____				
_____	_____				
_____	_____				
_____	_____				

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

(A) Initial Hydrostatic 1960  Test 1250 T-On Location 18:15  
 (B) First Initial Flow 17  Jars \_\_\_\_\_ T-Started 18:55  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 21:23  
 (D) Initial Shut-In 53  Circ Sub \_\_\_\_\_ T-Pulled 23:23  
 (E) Second Initial Flow 19  Hourly Standby \_\_\_\_\_ T-Out 1:05  
 (F) Second Final Flow 19  Mileage 116.7 X2 359.60 Comments \_\_\_\_\_  
 (G) Final Shut-In 33  Sampler \_\_\_\_\_ loaded tools 5/9 9:00  
 (H) Final Hydrostatic 1922  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_

Initial Open 30  Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Initial Shut-In 30  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Final Flow 30  Day Standby \_\_\_\_\_ Total 1609.60  
 Final Shut-In 30  Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1609.60

Approved By \_\_\_\_\_ Our Representative Burt D...

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