



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing ,Marc Dow

### **Black Gold #2-17**

### **17-14s-18w Ellis,KS**

Start Date: 2018.08.06 @ 16:20:14

End Date: 2018.08.06 @ 22:18:38

Job Ticket #: 64241                      DST #: 1

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

Printed: 2018.08.10 @ 09:07:34



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64241

**DST#: 1**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.06 @ 16:20:14

## GENERAL INFORMATION:

Formation: **Congl Sd**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:26:39

Time Test Ended: 22:18:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Ray Schw ager

Unit No: 77

**Interval: 3587.00 ft (KB) To 3680.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8360**

**Inside**

Press@RunDepth: 37.20 psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.06

End Date:

2018.08.06

Last Calib.:

2018.08.06

Start Time:

16:20:14

End Time:

22:18:38

Time On Btm:

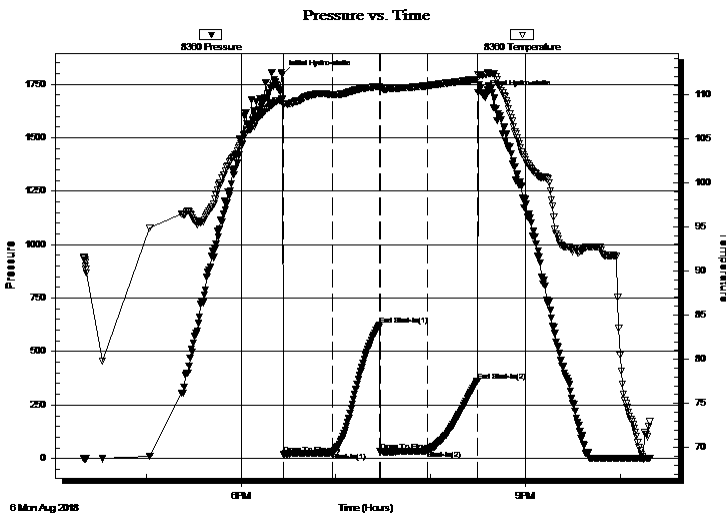
2018.08.06 @ 18:25:54

Time Off Btm:

2018.08.06 @ 20:33:09

**TEST COMMENT:** 30-IFP-w k blow thru-out 1/2" blow  
30-ISIP-no blow  
30-FFP-no blow  
30-FSIP-no blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1795.58	109.44	Initial Hydro-static
1	19.54	108.82	Open To Flow (1)
32	27.67	109.93	Shut-In(1)
62	623.29	110.87	End Shut-In(1)
62	32.10	110.66	Open To Flow (2)
92	37.20	110.95	Shut-In(2)
124	360.55	111.68	End Shut-In(2)
128	1700.41	112.18	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	HOCM 40% O60% M	0.15
25.00	OCM 10% O90% M	0.18

## Gas Rates

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



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TESTING , INC.**

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Total Depth: 3680.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8673 Outside**

Press@RunDepth: psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.06 End Date: 2018.08.06

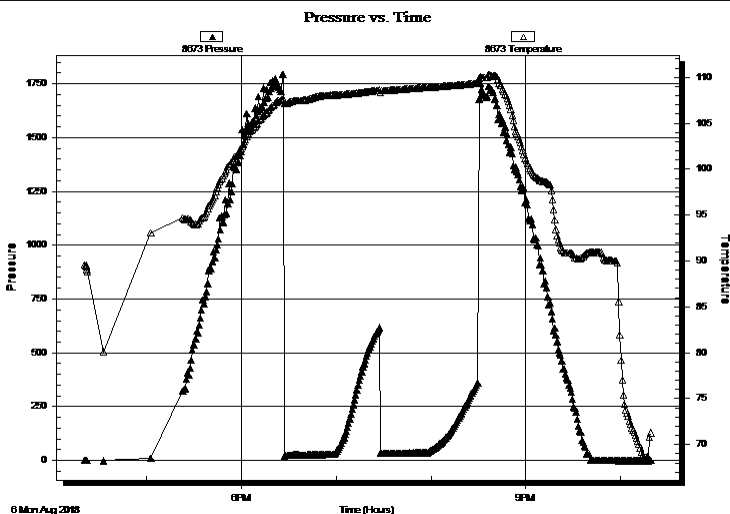
Last Calib.: 2018.08.06

Start Time: 16:20:42 End Time: 22:19:06

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-w k blow thru-out 1/2" blow  
30-ISIP-no blow  
30-FFP-no blow  
30-FSIP-no blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	HOCM 40%O60%M	0.15
25.00	OCM 10%O90%M	0.18

**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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64241

**DST#: 1**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.06 @ 16:20:14

## Tool Information

Drill Pipe:	Length: 3276.00 ft	Diameter: 3.80 inches	Volume: 45.95 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 48.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3587.00 ft			Final	52000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	93.00 ft				
Tool Length:	114.00 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			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	21.00 Bottom Of Top Packer
Packer	5.00			3587.00	
Stubb	1.00			3588.00	
Perforations	4.00			3592.00	
Recorder	0.00	8360	Inside	3592.00	
Recorder	0.00	8673	Outside	3592.00	
Blank Spacing	65.00			3657.00	
Perforations	20.00			3677.00	
Bullnose	3.00			3680.00	93.00 Bottom Packers & Anchor

**Total Tool Length: 114.00**



**TRILOBITE  
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# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64241

**DST#: 1**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.06 @ 16:20:14

## 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: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.50 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
20.00	HOCM 40%O60%M	0.147
25.00	OCM 10%O90%M	0.184

Total Length: 45.00 ft      Total Volume: 0.331 bbf

Num Fluid Samples: 0

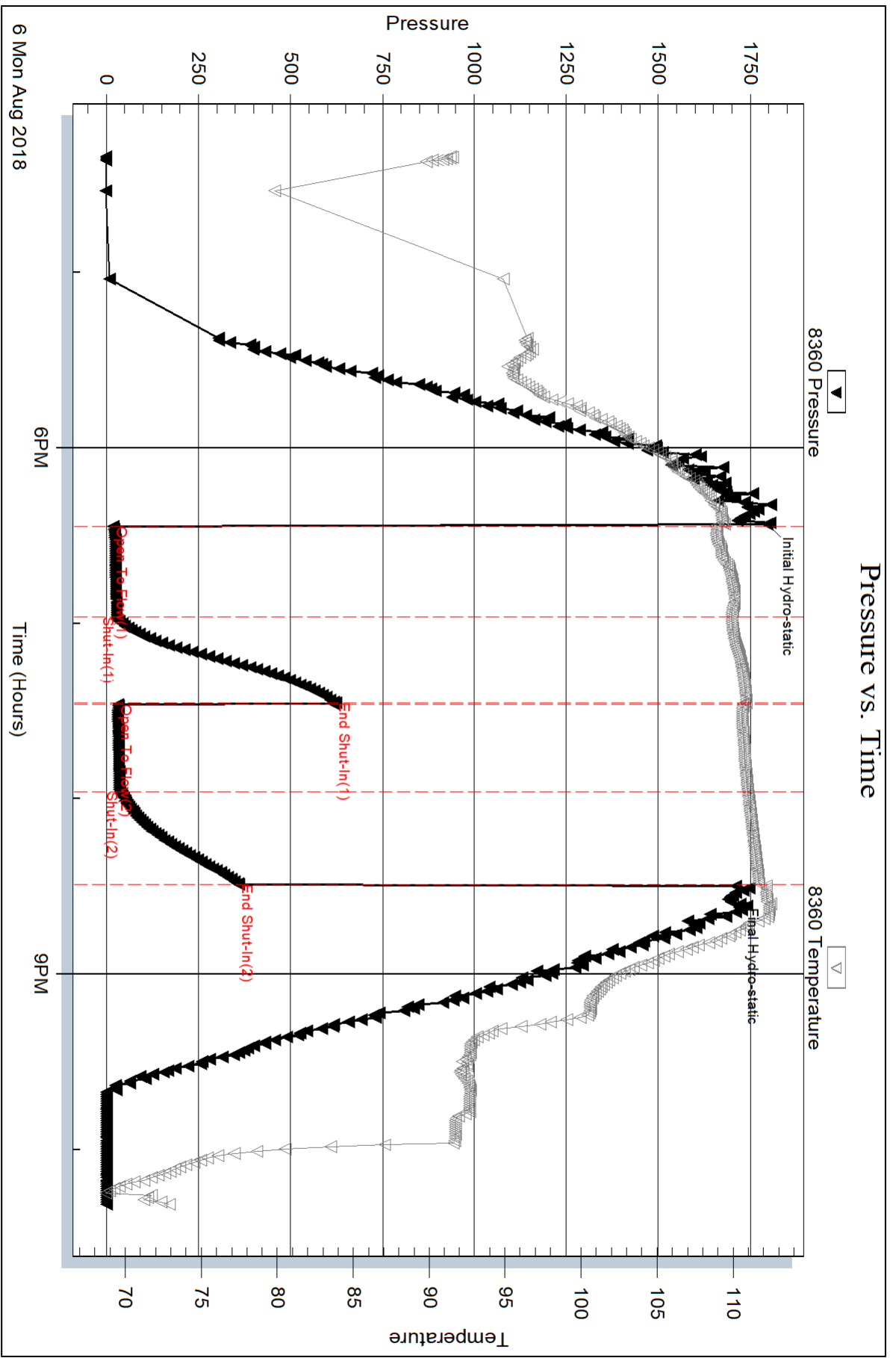
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



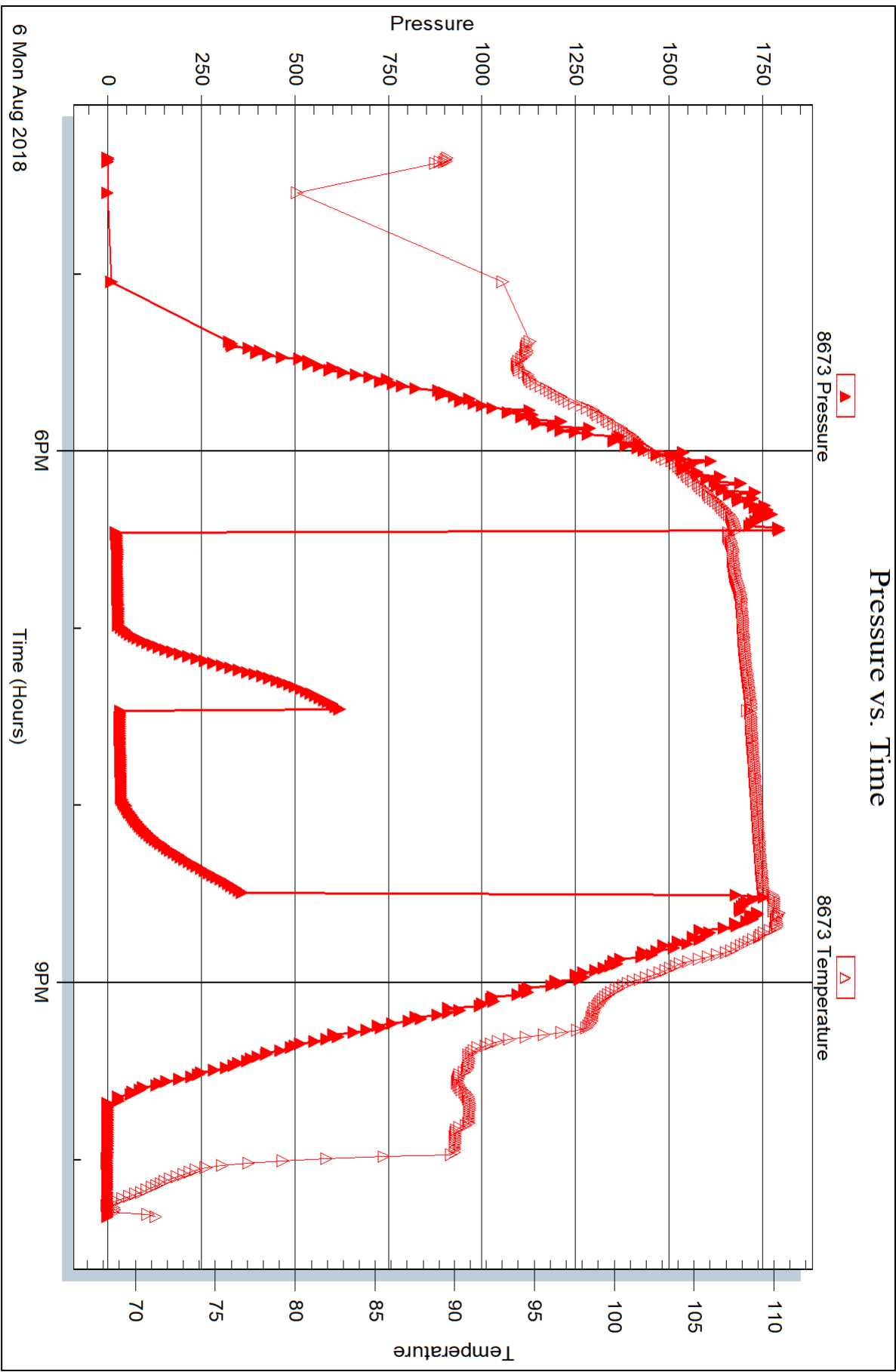
Serial #: 8673

Outside

Dow nting-Nelson Oil Co Inc

Black Gold #2-17

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64241

Printed: 2018.08.10 @ 09:07:35



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing ,Marc Dow

### **Black Gold #2-17**

### **17-14s-18w Ellis,KS**

Start Date: 2018.08.07 @ 05:25:09

End Date: 2018.08.07 @ 12:43:33

Job Ticket #: 64242                      DST #: 2

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

Printed: 2018.08.10 @ 09:07:09





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64242

**DST#: 2**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.07 @ 05:25:09

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:44:49

Time Test Ended: 12:43:33

Test Type: Conventional Bottom Hole (Reset)

Tester: Ray Schw ager

Unit No: 77

**Interval: 3586.00 ft (KB) To 3693.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3693.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8360**

**Inside**

Press@RunDepth: 45.93 psig @ 3596.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.07

End Date:

2018.08.07

Last Calib.:

2018.08.07

Start Time:

05:25:09

End Time:

12:43:33

Time On Btm:

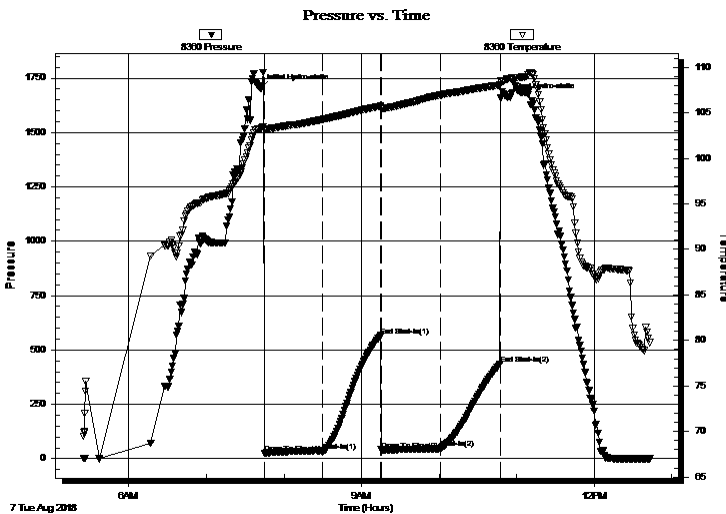
2018.08.07 @ 07:42:04

Time Off Btm:

2018.08.07 @ 10:52:33

**TEST COMMENT:** 45-IFP-w eak blow thru-out 1/2" to 1 3/4" blow  
45-ISIP-no blow  
45-FFP-surface to 1/8" blow  
45-FSIP-no blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1701.94	103.29	Initial Hydro-static
3	24.48	103.11	Open To Flow (1)
48	36.37	104.26	Shut-In(1)
93	566.09	105.72	End Shut-In(1)
93	40.60	105.50	Open To Flow (2)
139	45.93	106.94	Shut-In(2)
185	434.86	108.04	End Shut-In(2)
191	1660.92	108.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.04
60.00	OCM 10%O90%M	0.44

\* 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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64242

**DST#: 2**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.07 @ 05:25:09

### GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 07:44:49 Tester: Ray Schw ager

Time Test Ended: 12:43:33 Unit No: 77

**Interval: 3586.00 ft (KB) To 3693.00 ft (KB) (TVD)** Reference Elevations: 2055.00 ft (KB)

Total Depth: 3693.00 ft (KB) (TVD) 2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Outside**

Press@RunDepth: psig @ 3596.00 ft (KB) Capacity: 8000.00 psig

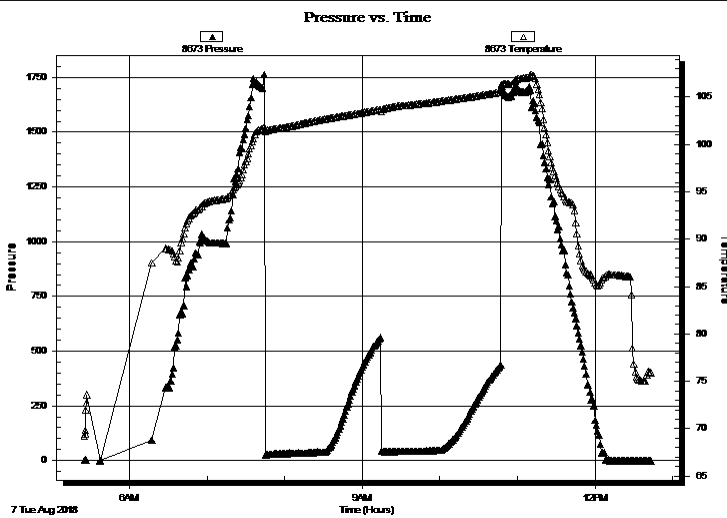
Start Date: 2018.08.07 End Date: 2018.08.07 Last Calib.: 2018.08.07

Start Time: 05:25:26 End Time: 12:43:50 Time On Btm:

Time Off Btm:

**TEST COMMENT:** 45-IFP-w eak blow thru-out 1/2" to 1 3/4" blow  
45-ISIP-no blow  
45-FFP-surface to 1/8" blow  
45-FSIP-no blow

### PRESSURE SUMMARY



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

### Recovery

Length (ft)	Description	Volume (bbl)
5.00	CO	0.04
60.00	OCM 10%O90%M	0.44

### 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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64242

**DST#: 2**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.07 @ 05:25:09

## Tool Information

Drill Pipe:	Length: 3276.00 ft	Diameter: 3.80 inches	Volume: 45.95 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 48.23 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3586.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	107.00 ft				
Tool Length:	128.00 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			3566.00	
Shut In Tool	5.00			3571.00	
Hydraulic tool	5.00			3576.00	
Packer	5.00			3581.00	21.00 Bottom Of Top Packer
Packer	5.00			3586.00	
Stubb	1.00			3587.00	
Perforations	9.00			3596.00	
Recorder	0.00	8360	Inside	3596.00	
Recorder	0.00	8673	Outside	3596.00	
Blank Spacing	94.00			3690.00	
Bullnose	3.00			3693.00	107.00 Bottom Packers & Anchor

**Total Tool Length: 128.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64242

**DST#: 2**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.07 @ 05:25:09

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbf

Water Loss: 9.49 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
5.00	CO	0.037
60.00	OCM 10%O90%M	0.441

Total Length: 65.00 ft      Total Volume: 0.478 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

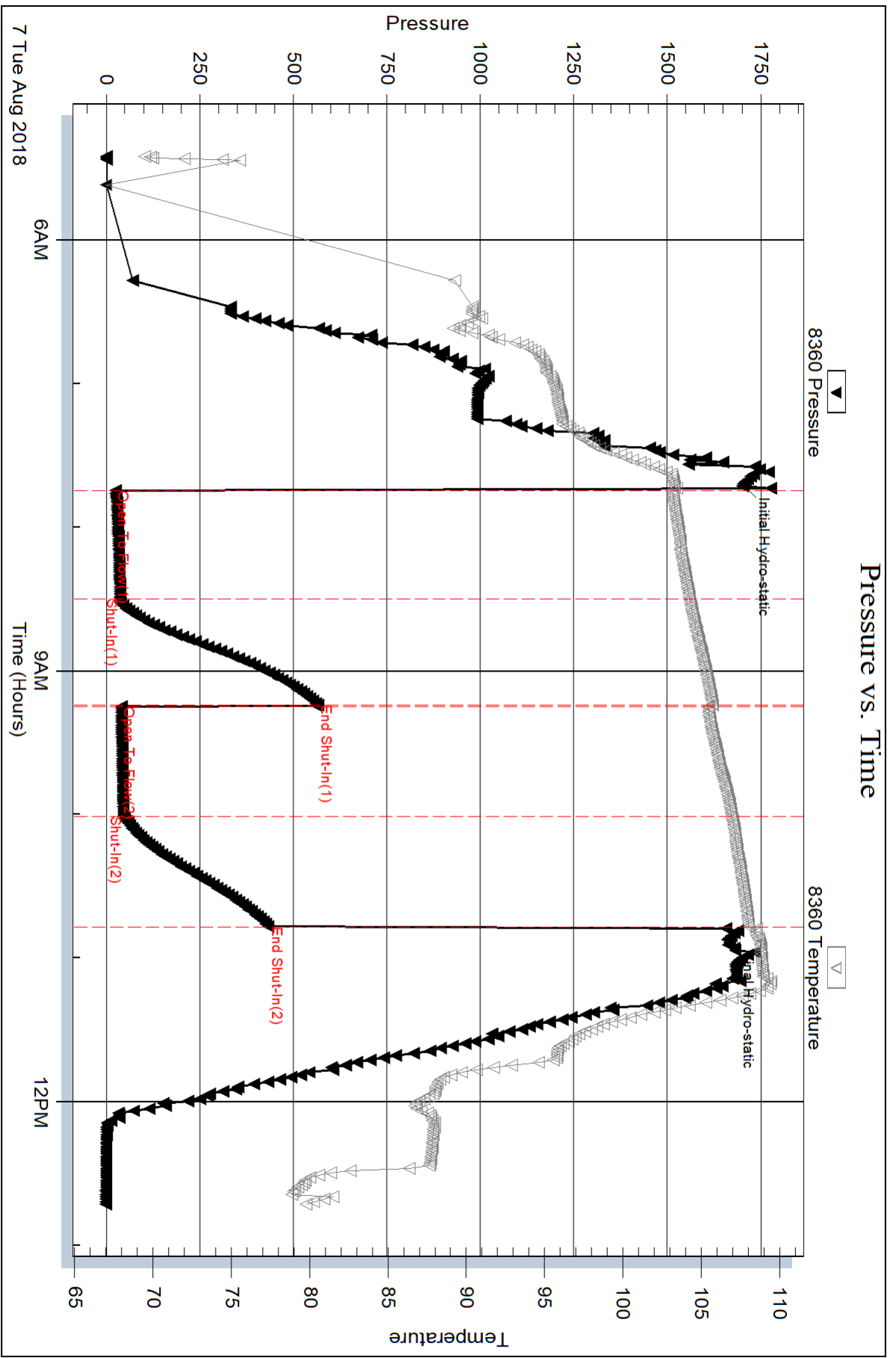
Serial #: 8360

Inside

Dow nng-Nelson Oil Co Inc

Black Gold #2-17

DST Test Number: 2

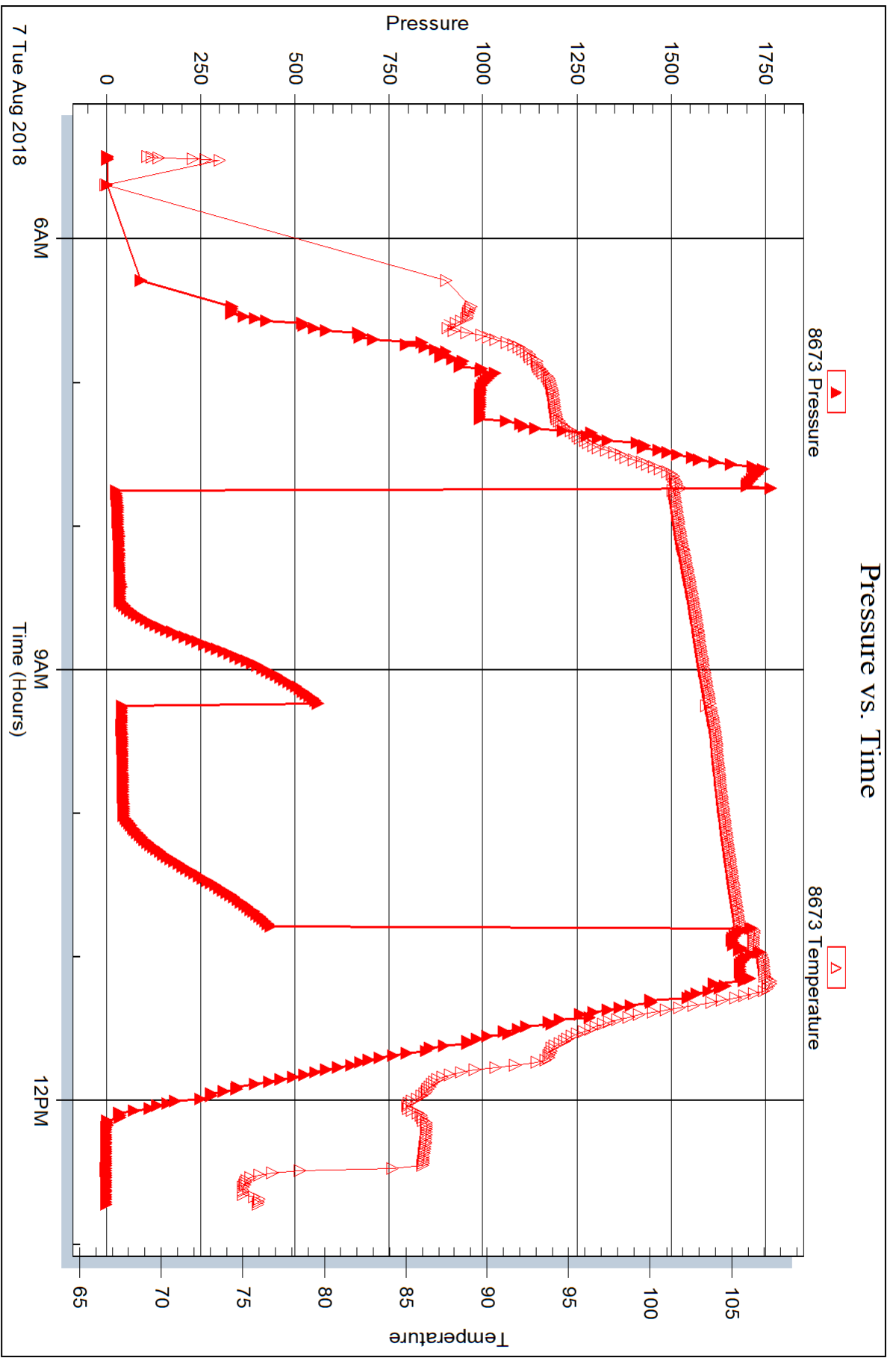


Serial #: 8673

Outside Dow nng-Nelson Oil Co Inc

Black Gold #2-17

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 64242

Printed: 2018.08.10 @ 09:07:10



## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing ,Marc Dow

### **Black Gold #2-17**

### **17-14s-18w Ellis,KS**

Start Date: 2018.08.08 @ 00:25:36

End Date: 2018.08.08 @ 06:02:15

Job Ticket #: 64243                      DST #: 3

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

Printed: 2018.08.10 @ 09:06:41

Downing-Nelson Oil Co Inc  
17-14s-18w Ellis,KS  
Black Gold #2-17  
DST # 3  
LKC H-J  
2018.08.08



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64243

**DST#: 3**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 00:25:36

## GENERAL INFORMATION:

Formation: **LKC H-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:03:16

Time Test Ended: 06:02:15

Test Type: Conventional Straddle (Reset)

Tester: Ray Schw ager

Unit No: 77

**Interval: 3473.00 ft (KB) To 3538.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8360**

**Inside**

Press@RunDepth: 24.23 psig @ 3483.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.08

End Date:

2018.08.08

Last Calib.:

2018.08.08

Start Time: 00:25:36

End Time:

06:02:15

Time On Btm:

2018.08.08 @ 02:02:01

Time Off Btm:

2018.08.08 @ 04:11:01

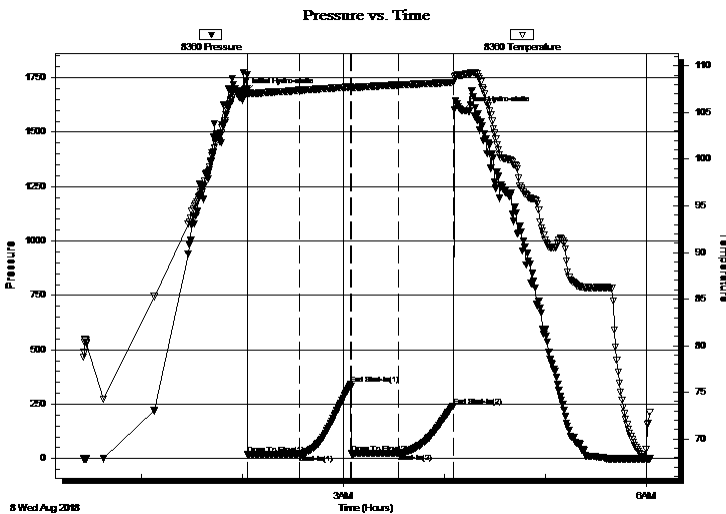
TEST COMMENT: 30-IFP-surface blow died in 10 min

30-ISIP-no blow

30-FFP-no blow

30-FSIP-no blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1683.40	107.51	Initial Hydro-static
2	18.64	106.90	Open To Flow (1)
32	22.11	107.38	Shut-In(1)
63	340.89	107.75	End Shut-In(1)
63	22.46	107.63	Open To Flow (2)
91	24.23	107.96	Shut-In(2)
124	241.87	108.24	End Shut-In(2)
129	1599.05	109.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

## Gas Rates

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

\* Recovery from multiple tests





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# DRILL STEM TEST REPORT

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PO Box 1019  
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**Black Gold #2-17**

Job Ticket: 64243

**DST#: 3**

ATTN: Al Dow ning ,Marc Dow

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Time Test Ended: 06:02:15

Test Type: Conventional Straddle (Reset)

Tester: Ray Schw ager

Unit No: 77

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Reference Elevations: 2055.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8673**

**Outside**

Press@RunDepth: psig @ 3483.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.08

End Date:

2018.08.08

Last Calib.:

2018.08.08

Start Time: 00:25:52

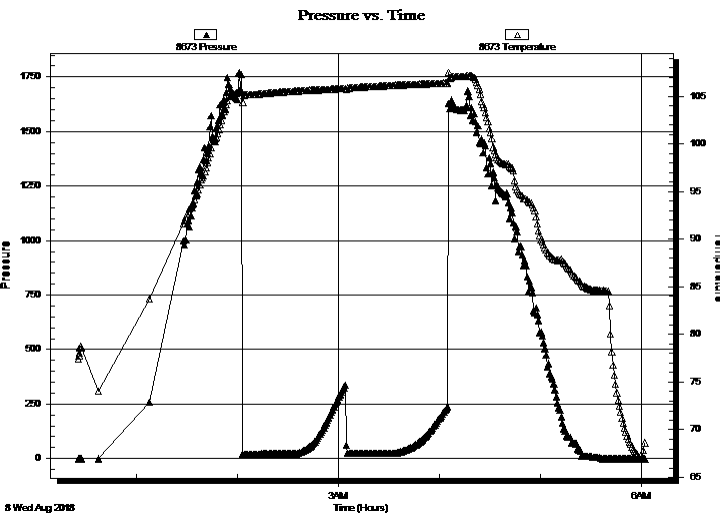
End Time:

06:02:16

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IFP-surface blow died in 10 min  
30-ISIP-no blow  
30-FFP-no blow  
30-FSIP-no blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

\* 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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64243 **DST#: 3**

ATTN: Al Dow ning ,Marc Dow

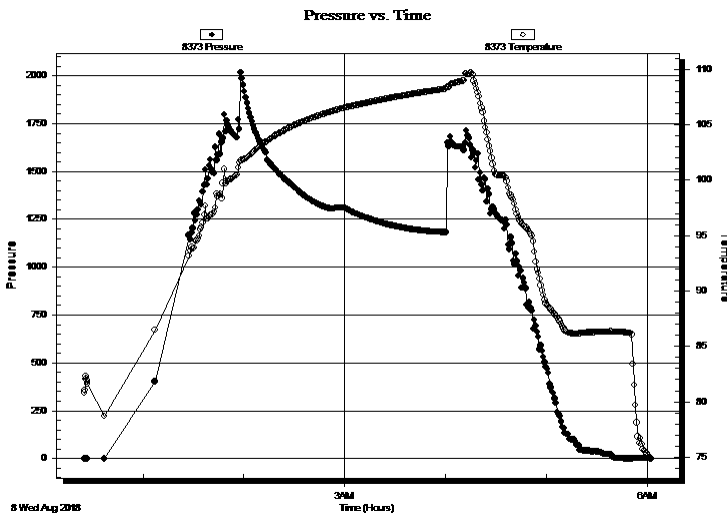
Test Start: 2018.08.08 @ 00:25:36

## GENERAL INFORMATION:

Formation: **LKC H-J**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Straddle (Reset)  
 Time Tool Opened: 02:03:16  
 Tester: Ray Schw ager  
 Time Test Ended: 06:02:15  
 Unit No: 77  
**Interval: 3473.00 ft (KB) To 3538.00 ft (KB) (TVD)**  
 Reference Elevations: 2055.00 ft (KB)  
 Total Depth: 3775.00 ft (KB) (TVD)  
 2047.00 ft (CF)  
 Hole Diameter: 7.88 inches  
 Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 8373 Below (Straddle)**  
 Press@RunDepth: psig @ 3553.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.08.08 End Date: 2018.08.08 Last Calib.: 2018.08.08  
 Start Time: 00:25:19 End Time: 06:01:58 Time On Btm:  
 Time Off Btm:

TEST COMMENT: 30-IFP-surface blow died in 10 min  
 30-ISIP-no blow  
 30-FFP-no blow  
 30-FSIP-no blow



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.04

## 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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64243

**DST#: 3**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 00:25:36

## Tool Information

Drill Pipe:	Length: 3147.00 ft	Diameter: 3.80 inches	Volume: 44.14 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 46.42 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	53000.00 lb
Depth to Top Packer:	3473.00 ft			Final	53000.00 lb
Depth to Bottom Packer:	3538.00 ft				
Interval betw een Packers:	65.00 ft				
Tool Length:	327.00 ft				
Number of Packers:	3	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3453.00	
Shut In Tool	5.00			3458.00	
Hydraulic tool	5.00			3463.00	
Packer	5.00			3468.00	21.00 Bottom Of Top Packer
Packer	5.00			3473.00	
Stubb	1.00			3474.00	
Perforations	9.00			3483.00	
Recorder	0.00	8360	Inside	3483.00	
Recorder	0.00	8673	Outside	3483.00	
Blank Spacing	33.00			3516.00	
Perforations	18.00			3534.00	
Blank Off Sub	1.00			3535.00	
Blank Spacing	3.00			3538.00	65.00 Tool Interval
Packer	5.00			3543.00	
Stubb	1.00			3544.00	
Perforations	9.00			3553.00	
Recorder	0.00	8373	Below	3553.00	
Blank Spacing	223.00			3776.00	
Bullnose	3.00			3779.00	241.00 Bottom Packers & Anchor

**Total Tool Length: 327.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64243

**DST#: 3**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 00:25:36

### 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: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.33 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 bbbl
5.00	Mud	0.037

Total Length: 5.00 ft      Total Volume: 0.037 bbl

Num Fluid Samples: 0

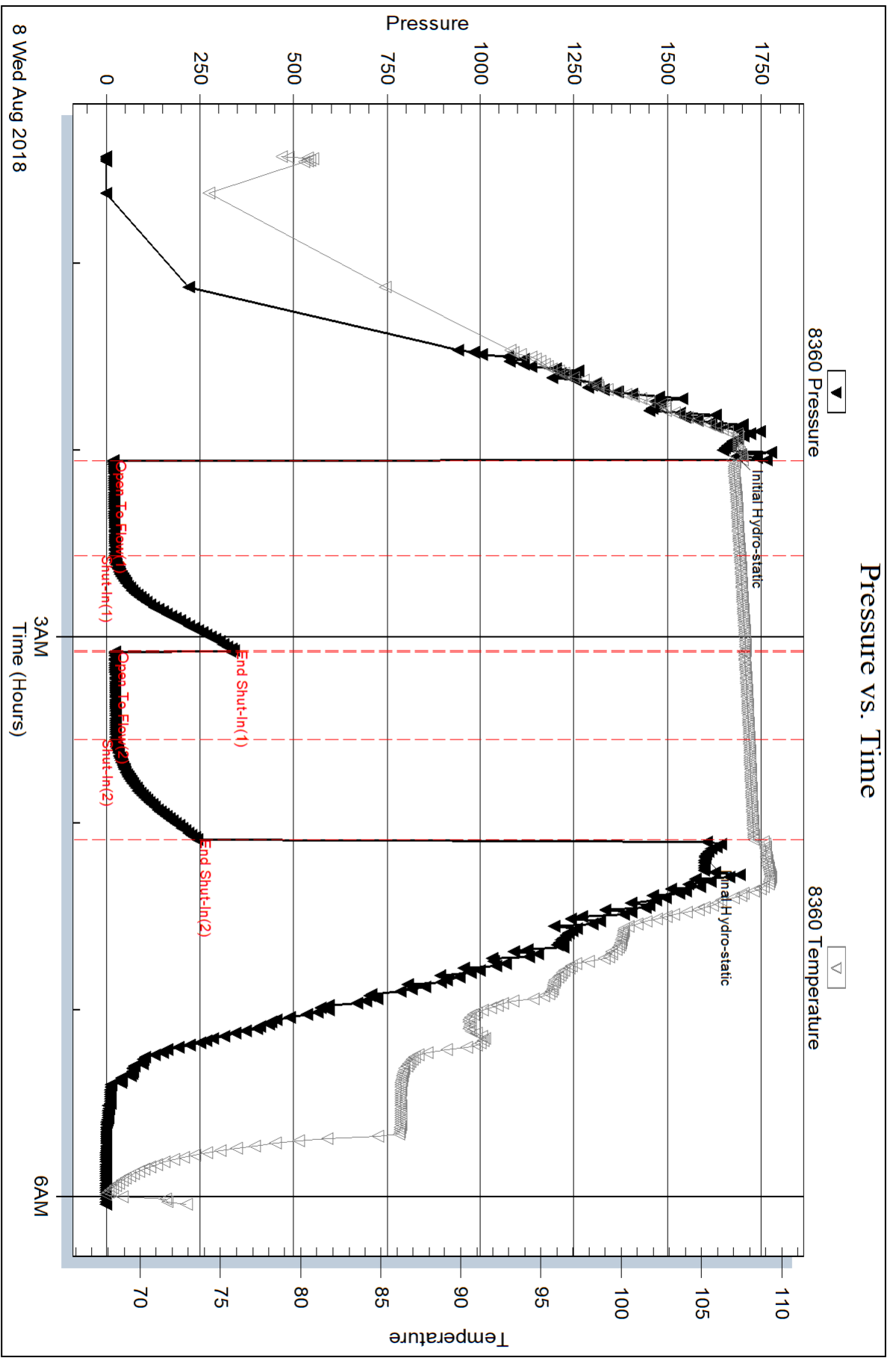
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



8 Wed Aug 2018

3AM  
Time (Hours)

6AM

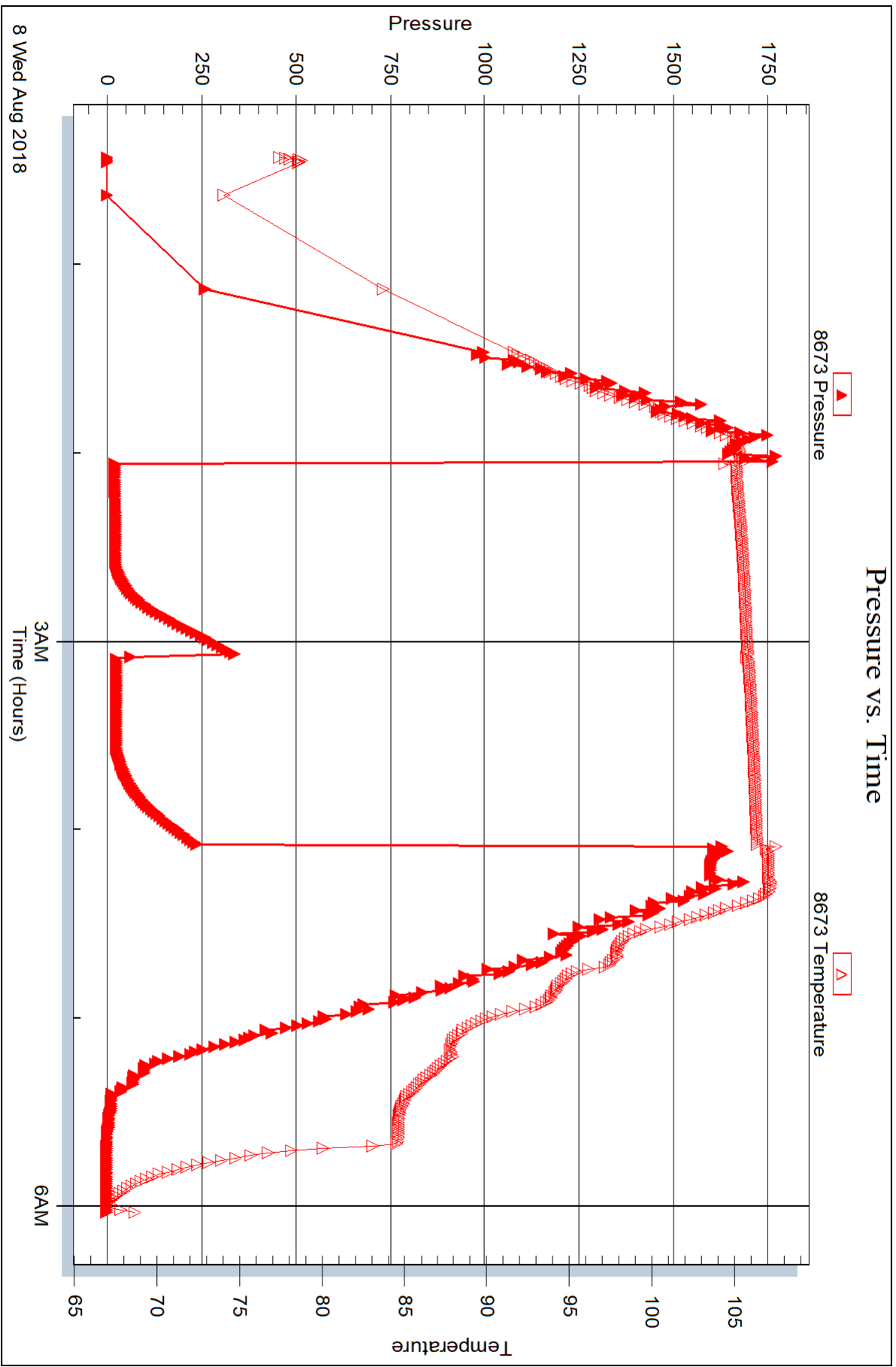
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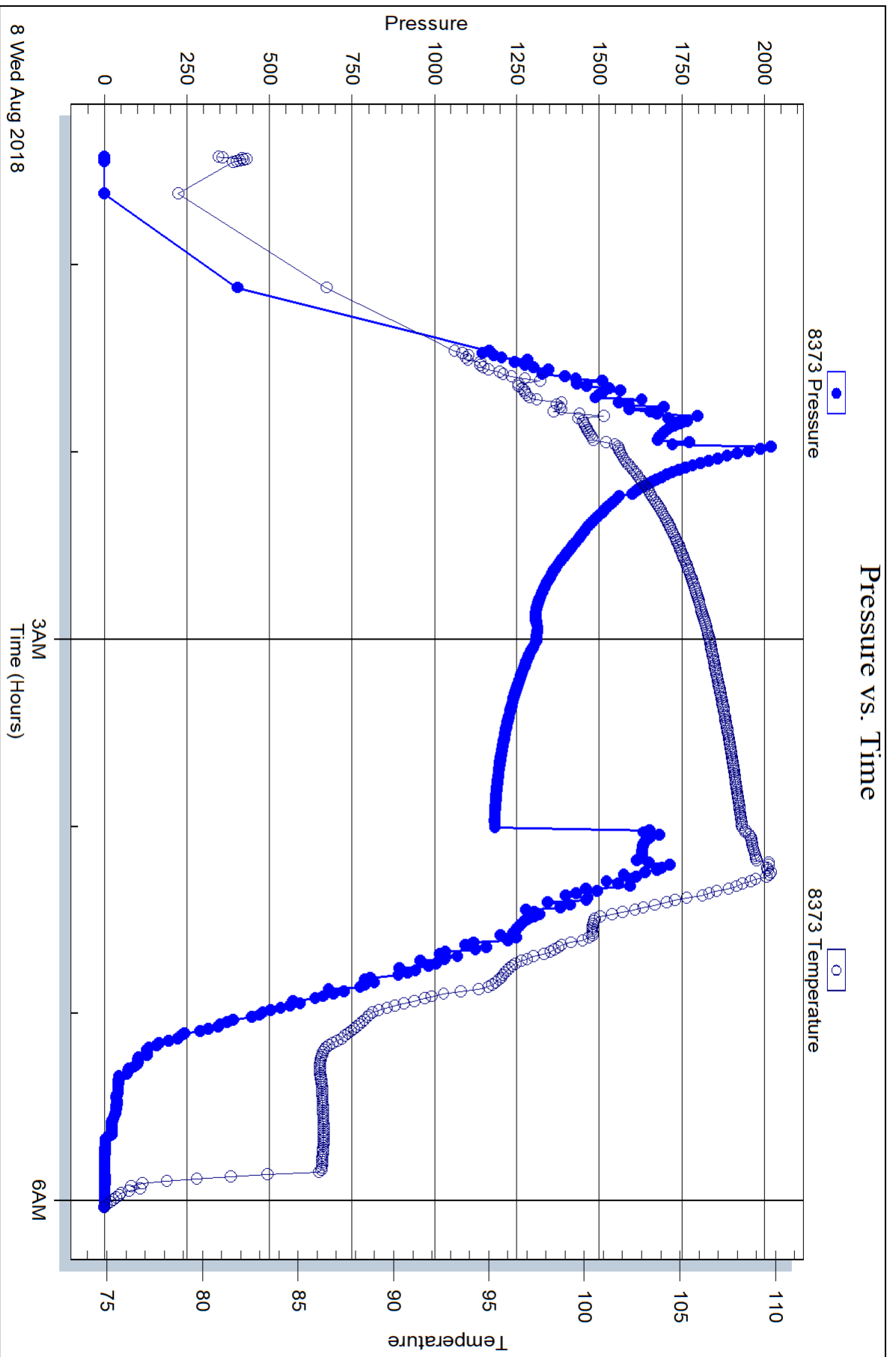
Outside

Dow nting-Nelson Oil Co Inc

Black Gold #2-17

DST Test Number: 3







## DRILL STEM TEST REPORT

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

PO Box 1019  
Hays KS 67601

ATTN: Al Downing ,Marc Dow

### **Black Gold #2-17**

### **17-14s-18w Ellis,KS**

Start Date: 2018.08.08 @ 06:40:38

End Date: 2018.08.08 @ 13:36:47

Job Ticket #: 64244                      DST #: 4

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

Printed: 2018.08.10 @ 09:06:04





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64244

**DST#: 4**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 06:40:38

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:12:03

Time Test Ended: 13:36:47

Test Type: Conventional Straddle (Reset)

Tester: Ray Schw ager

Unit No: 77

**Interval: 3587.00 ft (KB) To 3705.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8360**

**Inside**

Press@RunDepth: 275.91 psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.08

End Date:

2018.08.08

Last Calib.:

2018.08.08

Start Time: 06:40:38

End Time:

13:36:47

Time On Btm:

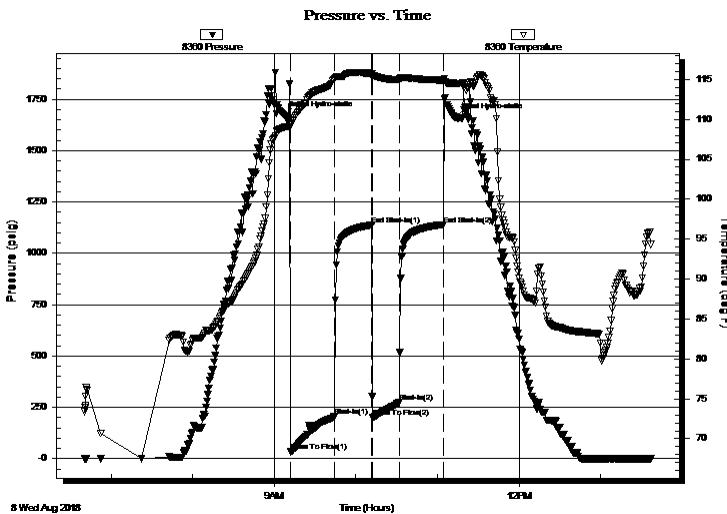
2018.08.08 @ 09:07:33

Time Off Btm:

2018.08.08 @ 11:13:17

**TEST COMMENT:** 30-IFP-BOB in 11 min  
30-ISIP-no blow  
30-FFP-w k to BOB in 24 min  
30-FSIP-no blow

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1670.01	109.01	Initial Hydro-static
5	33.83	109.04	Open To Flow (1)
37	204.33	115.05	Shut-In(1)
65	1138.27	115.74	End Shut-In(1)
65	201.84	115.48	Open To Flow (2)
85	275.91	114.97	Shut-In(2)
117	1139.80	114.88	End Shut-In(2)
126	1661.03	114.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
155.00	MW 40%M60%W w /slight show of oil	1.14
372.00	MW 80%w 20%M	4.18

## 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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64244

**DST#: 4**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 06:40:38

**GENERAL INFORMATION:**

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:12:03

Time Test Ended: 13:36:47

Test Type: Conventional Straddle (Reset)

Tester: Ray Schw ager

Unit No: 77

**Interval: 3587.00 ft (KB) To 3705.00 ft (KB) (TVD)**

Reference Elevations: 2055.00 ft (KB)

Total Depth: 3775.00 ft (KB) (TVD)

2047.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8673 Outside**

Press@RunDepth: psig @ 3592.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.08.08 End Date: 2018.08.08

Last Calib.: 2018.08.08

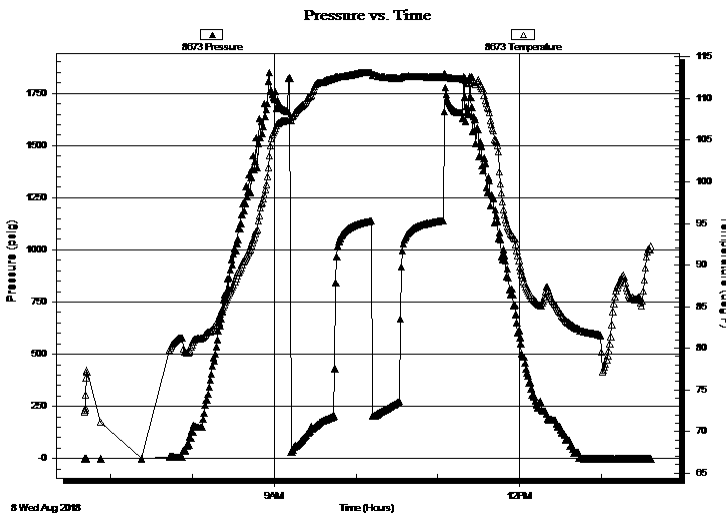
Start Time: 06:40:53 End Time: 13:36:47

Time On Btm:

Time Off Btm:

**TEST COMMENT:** 30-IFP-BOB in 11 min  
30-ISIP-no blow  
30-FFP-w k to BOB in 24 min  
30-FSIP-no blow

**PRESSURE SUMMARY**



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

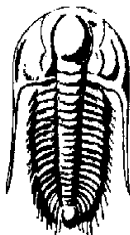
**Recovery**

Length (ft)	Description	Volume (bbl)
155.00	MW 40%M60%W w /slight show of oil	1.14
372.00	MW 80%w 20%M	4.18

**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

PO Box 1019  
Hays KS 67601

ATTN: Al Dow ning ,Marc Dow

**17-14s-18w Ellis,KS**

**Black Gold #2-17**

Job Ticket: 64244 **DST#: 4**

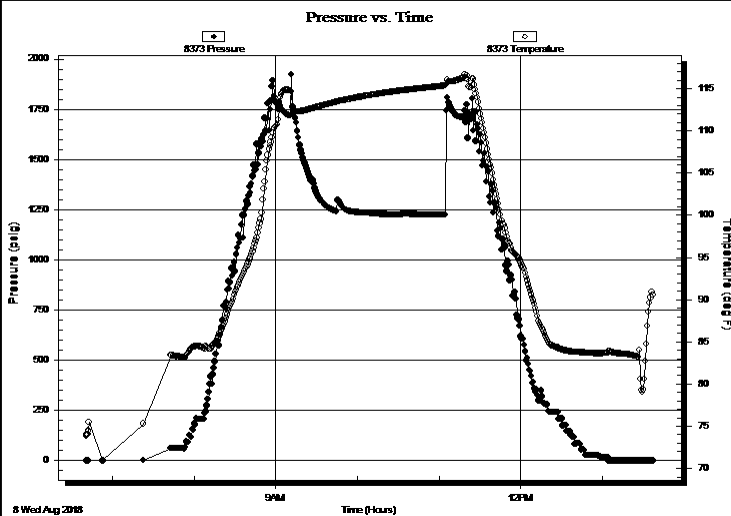
Test Start: 2018.08.08 @ 06:40:38

**GENERAL INFORMATION:**

<b>Formation:</b> <b>Arbuckle</b>	<b>Test Type:</b> Conventional Straddle (Reset)
<b>Deviated:</b> No Whipstock: ft (KB)	<b>Tester:</b> Ray Schwager
<b>Time Tool Opened:</b> 09:12:03	<b>Unit No:</b> 77
<b>Time Test Ended:</b> 13:36:47	<b>Reference Elevations:</b> 2055.00 ft (KB)
<b>Interval:</b> <b>3587.00 ft (KB) To 3705.00 ft (KB) (TVD)</b>	2047.00 ft (CF)
<b>Total Depth:</b> 3775.00 ft (KB) (TVD)	<b>KB to GR/CF:</b> 8.00 ft
<b>Hole Diameter:</b> 7.88 inches <b>Hole Condition:</b> Fair	

<b>Serial #: 8373</b>	<b>Below (Straddle)</b>	<b>Capacity:</b> 8000.00 psig
<b>Press@RunDepth:</b> psig @ 3712.00 ft (KB)		<b>Last Calib.:</b> 2018.08.08
<b>Start Date:</b> 2018.08.08	<b>End Date:</b> 2018.08.08	<b>Time On Btm:</b>
<b>Start Time:</b> 06:40:56	<b>End Time:</b> 13:37:20	<b>Time Off Btm:</b>

**TEST COMMENT:** 30-IFP-BOB in 11 min  
 30-ISIP-no blow  
 30-FFP-w k to BOB in 24 min  
 30-FSIP-no blow



**PRESSURE SUMMARY**

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

**Recovery**

Length (ft)	Description	Volume (bbl)
155.00	MW 40%M60%W w /slight show of oil	1.14
372.00	MW 80%w 20%M	4.18

**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

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64244

**DST#: 4**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 06:40:38

## Tool Information

Drill Pipe:	Length: 3272.00 ft	Diameter: 3.80 inches	Volume: 45.90 bbl	Tool Weight: 2200.00 lb
Heavy Wt. Pipe:	Length: 310.00 ft	Diameter: 2.75 inches	Volume: 2.28 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 48.18 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3587.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	3705.00 ft			
Interval betw een Packers:	118.00 ft			
Tool Length:	214.00 ft			
Number of Packers:	3	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

**Length (ft) Serial No. Position Depth (ft) Accum. Lengths**

Change Over Sub	1.00			3567.00	
Shut In Tool	5.00			3572.00	
Hydraulic tool	5.00			3577.00	
Packer	5.00			3582.00	21.00 Bottom Of Top Packer
Packer	5.00			3587.00	
Stubb	1.00			3588.00	
Perforations	4.00			3592.00	
Recorder	0.00	8360	Inside	3592.00	
Recorder	0.00	8673	Outside	3592.00	
Blank Spacing	96.00			3688.00	
Perforations	13.00			3701.00	
Blank Off Sub	1.00			3702.00	
Blank Spacing	3.00			3705.00	118.00 Tool Interval
Packer	5.00			3710.00	
Stubb	1.00			3711.00	
Perforations	1.00			3712.00	
Recorder	0.00	8373	Below	3712.00	
Blank Spacing	65.00			3777.00	
Bullnose	3.00			3780.00	75.00 Bottom Packers & Anchor

**Total Tool Length: 214.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Dow ning-Nelson Oil Co Inc

**17-14s-18w Ellis,KS**

PO Box 1019  
Hays KS 67601

**Black Gold #2-17**

Job Ticket: 64244

**DST#: 4**

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.08.08 @ 06:40:38

### 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:

34000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.36 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
155.00	MW 40%M60%W w /slight show of oil	1.139
372.00	MW 80%w 20%M	4.183

Total Length: 527.00 ft

Total Volume: 5.322 bbf

Num Fluid Samples: 0

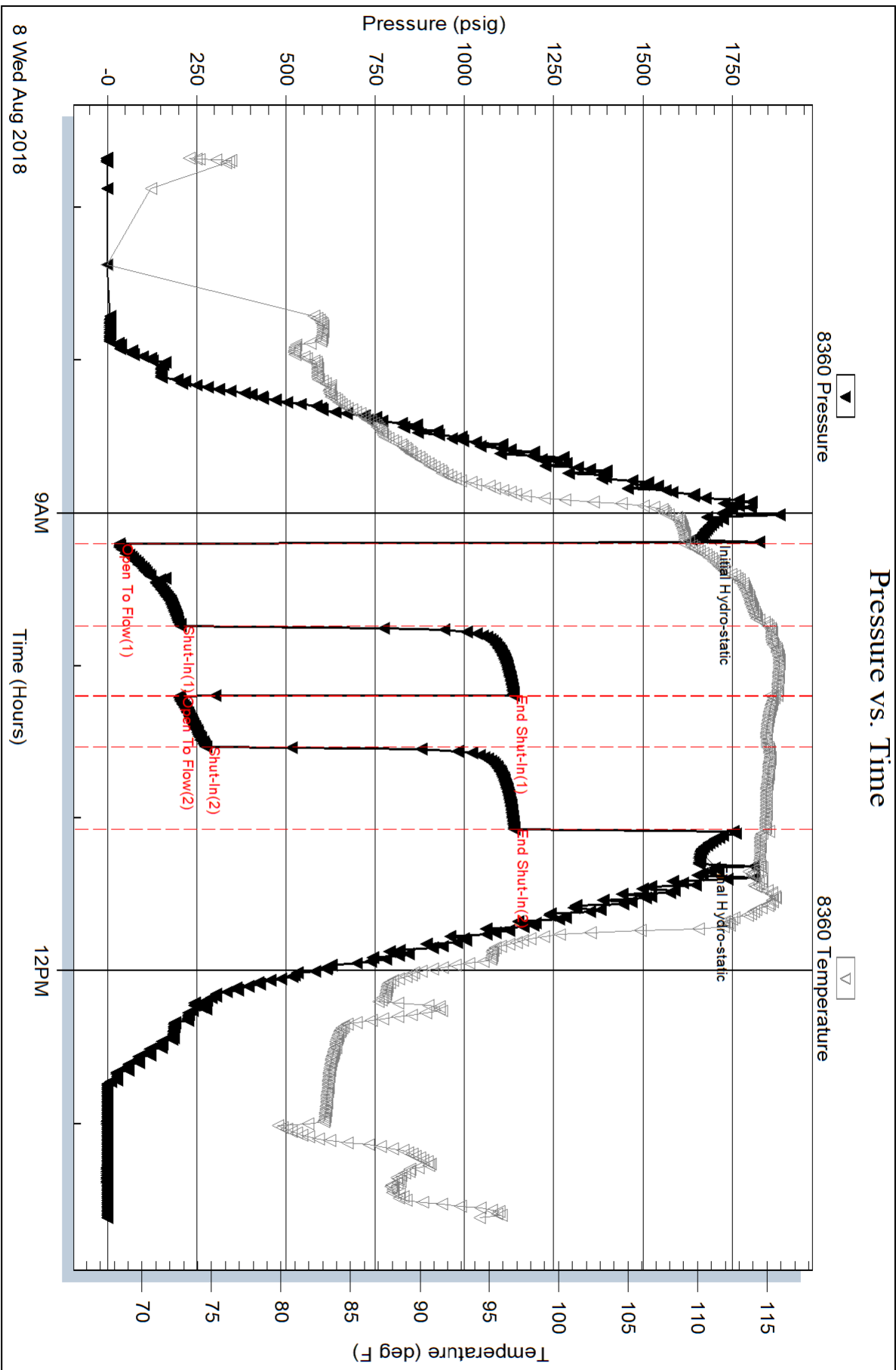
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .2@70F



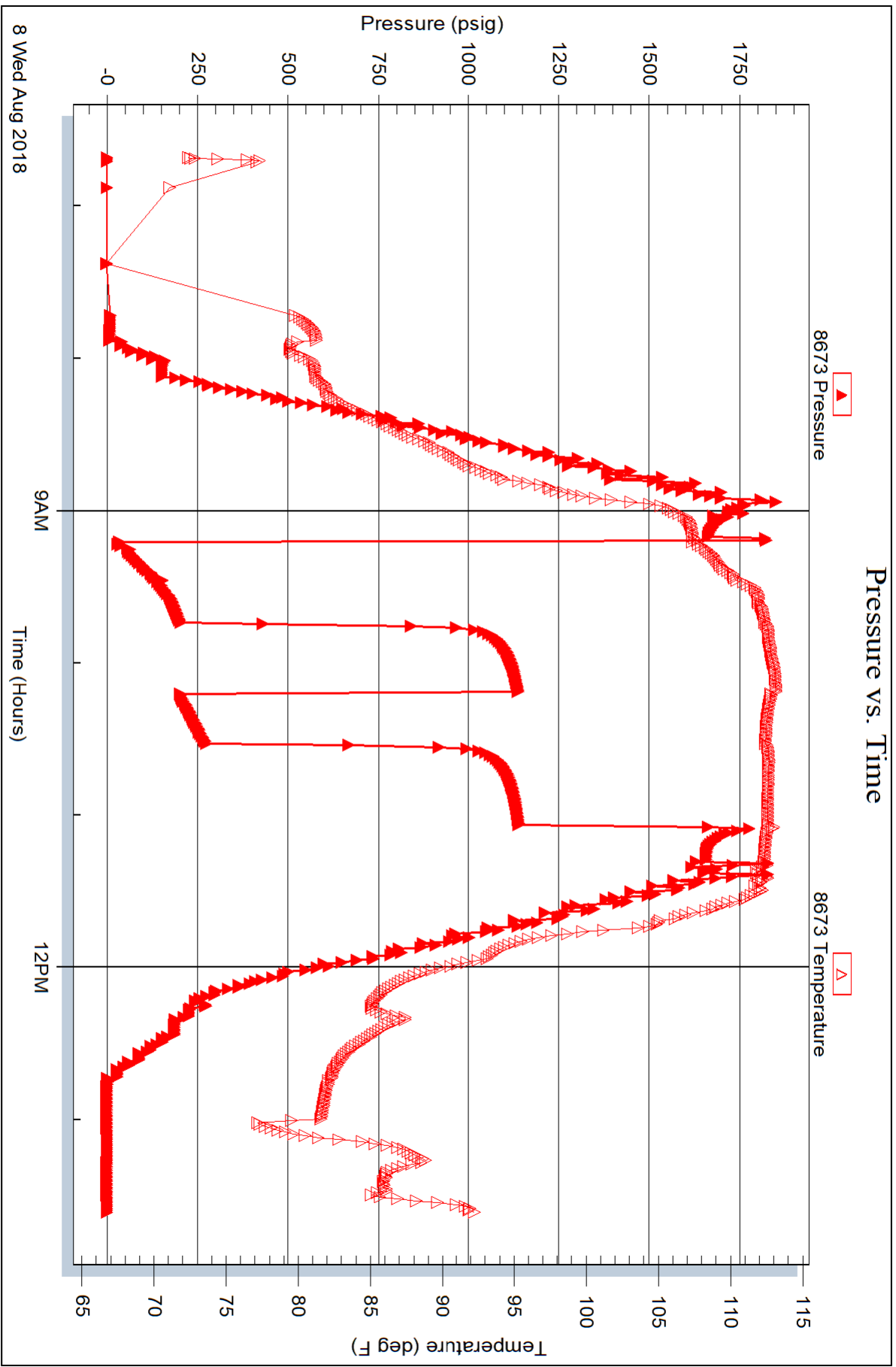
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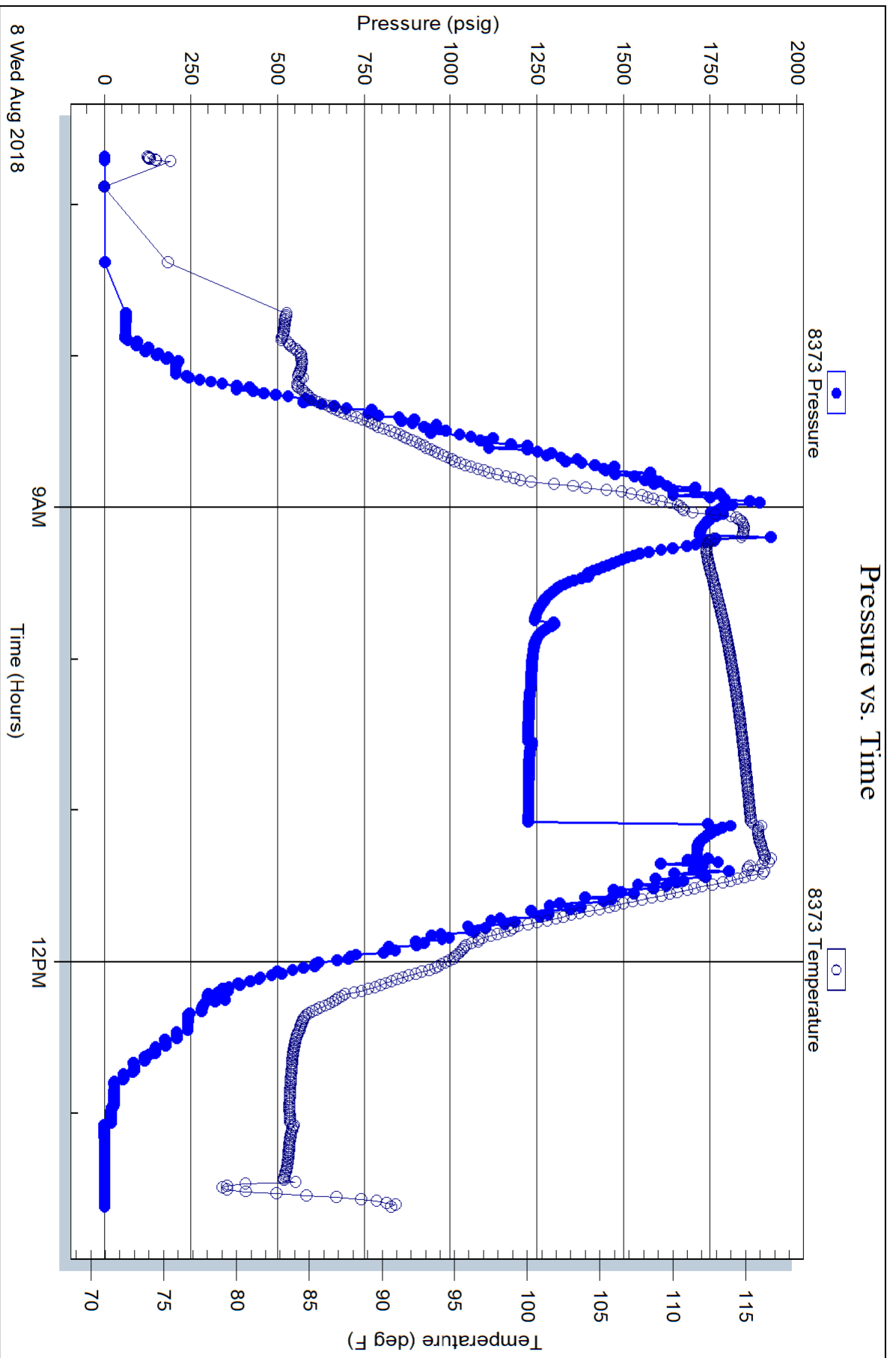
Outside

Dow nting-Nelson Oil Co Inc

Black Gold #2-17

DST Test Number: 4









# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 64241

Well Name & No. Black Gold #2-17 Test No. 1 Date 8-6-18  
 Company Downing-Nelson Oil Co Inc Elevation 2055 KB 2047 GL  
 Address PO Box 1019 Hays, Ks 67601  
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1  
 Location: Sec. 17 Twp 14<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3587-3680 Zone Tested Conglo sd.  
 Anchor Length 93 Drill Pipe Run 3276 Mud Wt. 9.1  
 Top Packer Depth 3582 Drill Collars Run - Vis 47  
 Bottom Packer Depth 3587 Wt. Pipe Run 310 WL 9.6  
 Total Depth 3680 Chlorides 5000 ppm System LCM 3/4<sup>#</sup>

Blow Description IFP - Weak Blow then-out 1/2" Blow  
ISIP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

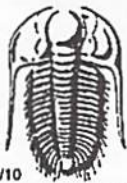
Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>HOCM</u>	<u>40</u>		<u>60</u>	
<u>25</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45 BHT 111 Gravity - API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1795  Test 1050 T-On Location 1330  
 (B) First Initial Flow 19  Jars \_\_\_\_\_ T-Started 1620  
 (C) First Final Flow 27  Safety Joint \_\_\_\_\_ T-Open 1825  
 (D) Initial Shut-In 623  Circ Sub \_\_\_\_\_ T-Pulled 2025  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 2218  
 (F) Second Final Flow 37  Mileage 15 RT 15 Comments \_\_\_\_\_  
 (G) Final Shut-In 360  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1700  Straddle \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1065  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1065

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

Approved By \_\_\_\_\_ Our Representative Ray Schwagerl Thank you

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. 64242

Well Name & No. Black Gold #2-17 Test No. 2 Date 8-7-18  
 Company Downing-Nelson Oil Co Inc Elevation 2055 KB 2047 GL  
 Address Po Box 1019 Hays Ks 67601  
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1  
 Location: Sec. 17 Twp 14<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3586-3693 Zone Tested Arbuckle  
 Anchor Length 107 Drill Pipe Run 3276 Mud Wt. 9.1  
 Top Packer Depth 3581 Drill Collars Run - Vis 47  
 Bottom Packer Depth 3586 Wt. Pipe Run 310 WL 9.6  
 Total Depth 3693 Chlorides 5000 ppm System LCM 3/4 #  
 Blow Description IFP - WEAK Blow thru-out 1/2" to 1 3/4" Blow  
ISIP - NO Blow  
FFP - SURFACE TO 1/8" Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>CO</u>				
<u>60</u>	<u>OCM</u>		<u>10</u>		<u>90</u>

Rec Total 65 BHT 108 Gravity 31 API RW - @ - °F Chlorides - ppm  
 (A) Initial Hydrostatic 1701  Test 1050 T-On Location 0435  
 (B) First Initial Flow 24  Jars \_\_\_\_\_ T-Started 0525  
 (C) First Final Flow 36  Safety Joint \_\_\_\_\_ T-Open 0745  
 (D) Initial Shut-In 566  Circ Sub \_\_\_\_\_ T-Pulled 1045  
 (E) Second Initial Flow 40  Hourly Standby \_\_\_\_\_ T-Out 1243  
 (F) Second Final Flow 45  Mileage 15 RT <sup>15</sup> Comments \_\_\_\_\_  
 (G) Final Shut-In 434  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1660  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1065

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

Approved By \_\_\_\_\_ Our Representative Ray Schwager *Thank you*

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. 64243

Well Name & No. BLACK Gold #2-17 Test No. 3 Date 8-7-18  
 Company Downing-Nelson Oil Co Inc Elevation 2055 KB 2047 GL  
 Address PO Box 1019 Hays Ks 67601  
 Co. Rep / Geo. MARC Downing Rig DISCOVERY rig 1  
 Location: Sec. 17 Twp 14<sup>s</sup> Rge. 18<sup>w</sup> Co. ELLIS State Ks

Interval Tested 3473-3538 Zone Tested LKC H-J  
 Anchor Length 65' Drill Pipe Run 3147 Mud Wt. 9.1  
 Top Packer Depth 3468-3473 Drill Collars Run — Vls 48  
 Bottom Packer Depth 3538 Wt. Pipe Run 310 WL 10.4  
 Total Depth 3775 Chlorides 5000 ppm System LCM 1 1/2 #

Blow Description TFP - SURFACE Blow died in 10 min  
ISTP - NO Blow  
FFP - NO Blow  
FSIP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</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 Gravity — API RW — @ —° F Chlorides — ppm

(A) Initial Hydrostatic 1683  Test 1050 T-On Location 2330  
 (B) First Initial Flow 18  Jars \_\_\_\_\_ T-Started 0025 8<sup>th</sup>  
 (C) First Final Flow 22  Safety Joint \_\_\_\_\_ T-Open 0200  
 (D) Initial Shut-In 340  Circ Sub \_\_\_\_\_ T-Pulled 0400  
 (E) Second Initial Flow 22  Hourly Standby \_\_\_\_\_ T-Out 0602  
 (F) Second Final Flow 24  Mileage 15 Comments \_\_\_\_\_  
 (G) Final Shut-In 241  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1599  Straddle 600  Ruined Shale Packer \_\_\_\_\_

Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 30  Extra Recorder \_\_\_\_\_  
 Final Shut-In 30  Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 1665 Sub Total 1665 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Ray Schwager Thank you

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. 64244

Well Name & No. Black Gold #2-17 Test No. 4 Date 8-8-18  
 Company Downing-Nelson Oil Co Inc Elevation 2055 KB 2047 GL  
 Address PO Box 1019 Hays Ks 67601  
 Co. Rep / Geo. MARC Downing Rig Discovery rig 1  
 Location: Sec. 17 Twp 14<sup>s</sup> Rge. 18<sup>w</sup> Co. Ellis State Ks

Interval Tested 3587-3705 Zone Tested Arbuckle  
 Anchor Length 118 Drill Pipe Run 3272 Mud Wt. 9.1  
 Top Packer Depth 3587-3582 Drill Collars Run — Vis 48  
 Bottom Packer Depth 3705 Wt. Pipe Run 310 WL 10.4  
 Total Depth 3775 Chlorides 5000 ppm System LCM 1 1/2 #

Blow Description IFP - BOBIN 11min  
TSTP - NO Blow  
FFP - WEAK TO BOBIN 24min  
FSTP - NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>155</u>	<u>MW w/slight show of oil</u>			<u>60</u>	<u>40</u>
<u>372</u>	<u>MW</u>			<u>80</u>	<u>20</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 527 BHT 1 Gravity ✓ API RW .2 @ 70 ° F Chlorides 34000 ppm  
 (A) Initial Hydrostatic 1670  Test 1050 T-On Location 0600  
 (B) First Initial Flow 33  Jars \_\_\_\_\_ T-Started 0640  
 (C) First Final Flow 204  Safety Joint \_\_\_\_\_ T-Open 0910  
 (D) Initial Shut-In 1138  Circ Sub \_\_\_\_\_ T-Pulled 1110  
 (E) Second Initial Flow 201  Hourly Standby \_\_\_\_\_ T-Out 1336  
 (F) Second Final Flow 275  Mileage \_\_\_\_\_ Comments \_\_\_\_\_  
 (G) Final Shut-In 1139  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1661  Straddle 600  Ruined Shale Packer \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_ Sub Total 0  
 Day Standby \_\_\_\_\_ Total 1650  
 Accessibility \_\_\_\_\_ MP/DST Disc't \_\_\_\_\_  
 Sub Total 1650

Approved By \_\_\_\_\_ Our Representative RAY SCHWAGER *Thank you*

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