



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks, KS

Start Date: 2015.01.28 @ 14:03:59

End Date: 2015.01.28 @ 20:54:29

Job Ticket #: 61153 DST #: 1

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

Printed: 2015.02.02 @ 09:12:56



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

GENERAL INFORMATION:

Formation: **Toonto r- LKC"D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:42:29
 Time Test Ended: 20:54:29
 Interval: **3280.00 ft (KB) To 3395.00 ft (KB) (TVD)**
 Total Depth: 3395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 2093.00 ft (KB)
 2085.00 ft (CF)
 KB to GR/CF: 8.00 ft

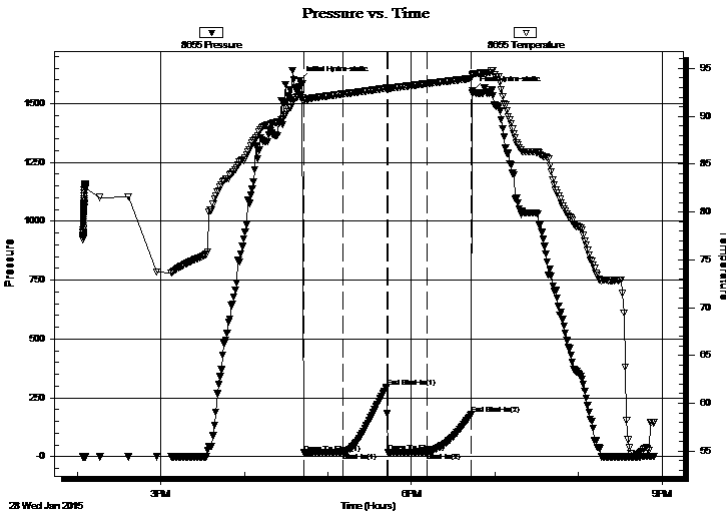
Serial #: 8655

Outside

Press@RunDepth: 20.08 psig @ 3281.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.28 End Date: 2015.01.28 Last Calib.: 2015.01.28
 Start Time: 14:04:00 End Time: 20:54:29 Time On Btm: 2015.01.28 @ 16:39:59
 Time Off Btm: 2015.01.28 @ 18:43:59

TEST COMMENT: 30- IF- .5" blow throughout
 30- IS- No blow
 30- FF- No blow
 30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.29	92.13	Initial Hydro-static
3	16.17	91.58	Open To Flow (1)
31	18.24	92.33	Shut-In(1)
62	295.58	92.93	End Shut-In(1)
63	19.04	92.91	Open To Flow (2)
91	20.08	93.41	Shut-In(2)
123	180.38	93.96	End Shut-In(2)
124	1554.64	94.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	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 Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

Tool Information

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.75 inches	Volume: 44.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3280.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	115.00 ft			
Tool Length:	135.00 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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Change Over Sub	1.00			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Packer	5.00			3276.00	20.00 Bottom Of Top Packer
Packer	4.00			3280.00	
Stubb	1.00			3281.00	
Recorder	0.00	8651	Inside	3281.00	
Recorder	0.00	8655	Outside	3281.00	
Perforations	13.00			3294.00	
Change Over Sub	1.00			3295.00	
Drill Pipe	96.00			3391.00	
Change Over Sub	1.00			3392.00	
Bullnose	3.00			3395.00	115.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

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 bbf
5.00	M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

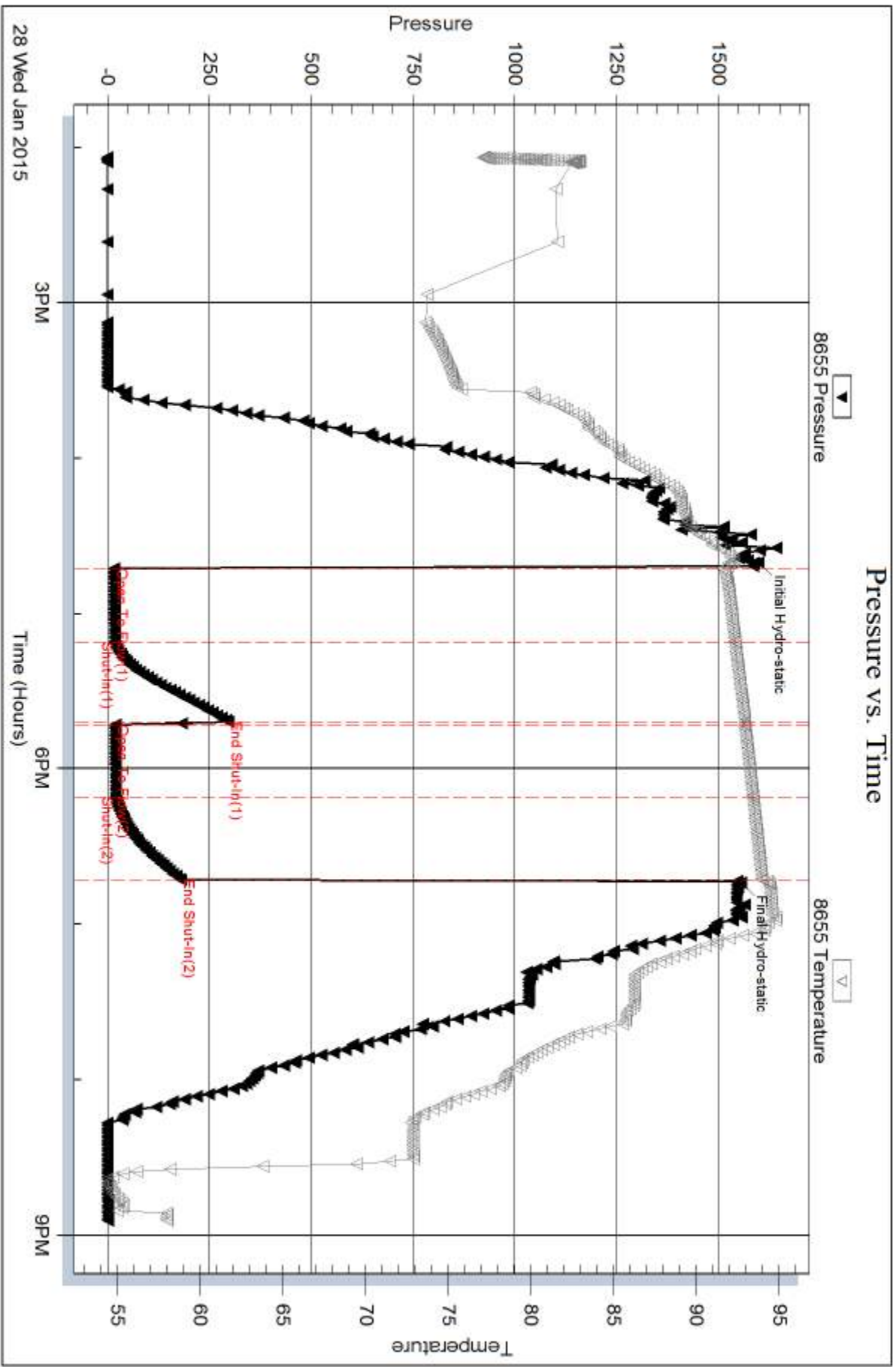
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



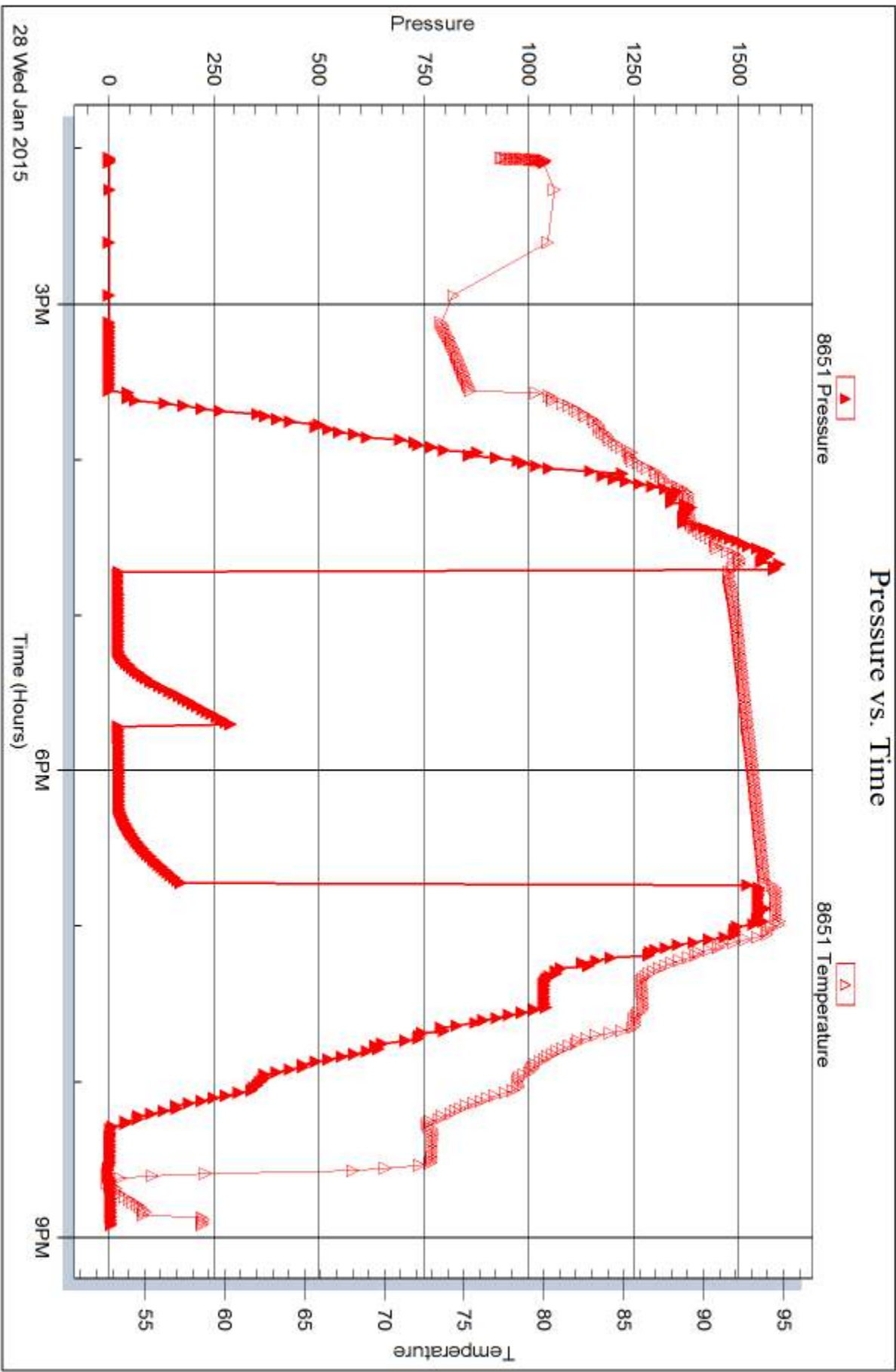
Serial #: 8651

Inside

Dow nrg-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 1



28 Wed Jan 2015

Trilobite Testing, Inc

Ref. No: 61153

Printed: 2015.02.02 @ 09:12:57



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks,KS

Start Date: 2015.01.29 @ 04:25:18

End Date: 2015.01.29 @ 09:18:48

Job Ticket #: 61154 DST #: 2

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

Printed: 2015.02.02 @ 09:01:31



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:57:18

Time Test Ended: 09:18:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3392.00 ft (KB) To 3416.00 ft (KB) (TVD)

Reference Elevations: 2093.00 ft (KB)

Total Depth: 3416.00 ft (KB) (TVD)

2085.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 24.73 psig @ 3393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.29 End Date: 2015.01.29

Last Calib.: 2015.01.29

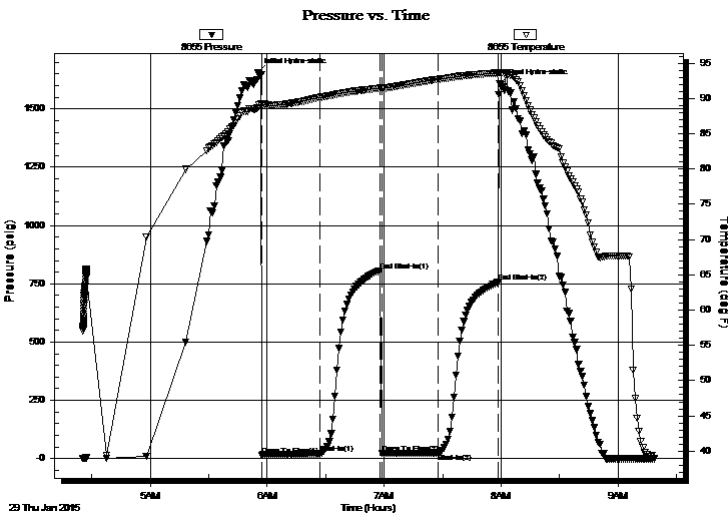
Start Time: 04:25:19 End Time: 09:18:48

Time On Btm: 2015.01.29 @ 05:55:18

Time Off Btm: 2015.01.29 @ 07:59:18

TEST COMMENT: 30- IF- Intermittent surface blow
30- IS- No blow
30- FF- No blow
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.42	88.71	Initial Hydro-static
2	15.60	88.90	Open To Flow (1)
32	20.97	90.14	Shut-In(1)
63	806.46	91.49	End Shut-In(1)
64	22.27	91.40	Open To Flow (2)
93	24.73	92.73	Shut-In(2)
123	756.12	93.65	End Shut-In(2)
124	1608.63	93.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M w / oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

Tool Information

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.75 inches	Volume: 45.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 42000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3392.00 ft			Final 40000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	24.00 ft			
Tool Length:	44.00 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			3373.00	
Shut In Tool	5.00			3378.00	
Hydraulic tool	5.00			3383.00	
Packer	5.00			3388.00	20.00 Bottom Of Top Packer
Packer	4.00			3392.00	
Stubb	1.00			3393.00	
Recorder	0.00	8651	Inside	3393.00	
Recorder	0.00	8655	Outside	3393.00	
Perforations	20.00			3413.00	
Bullnose	3.00			3416.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

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: 53.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.98 in³

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 bbf
10.00	M w / oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbf

Num Fluid Samples: 0

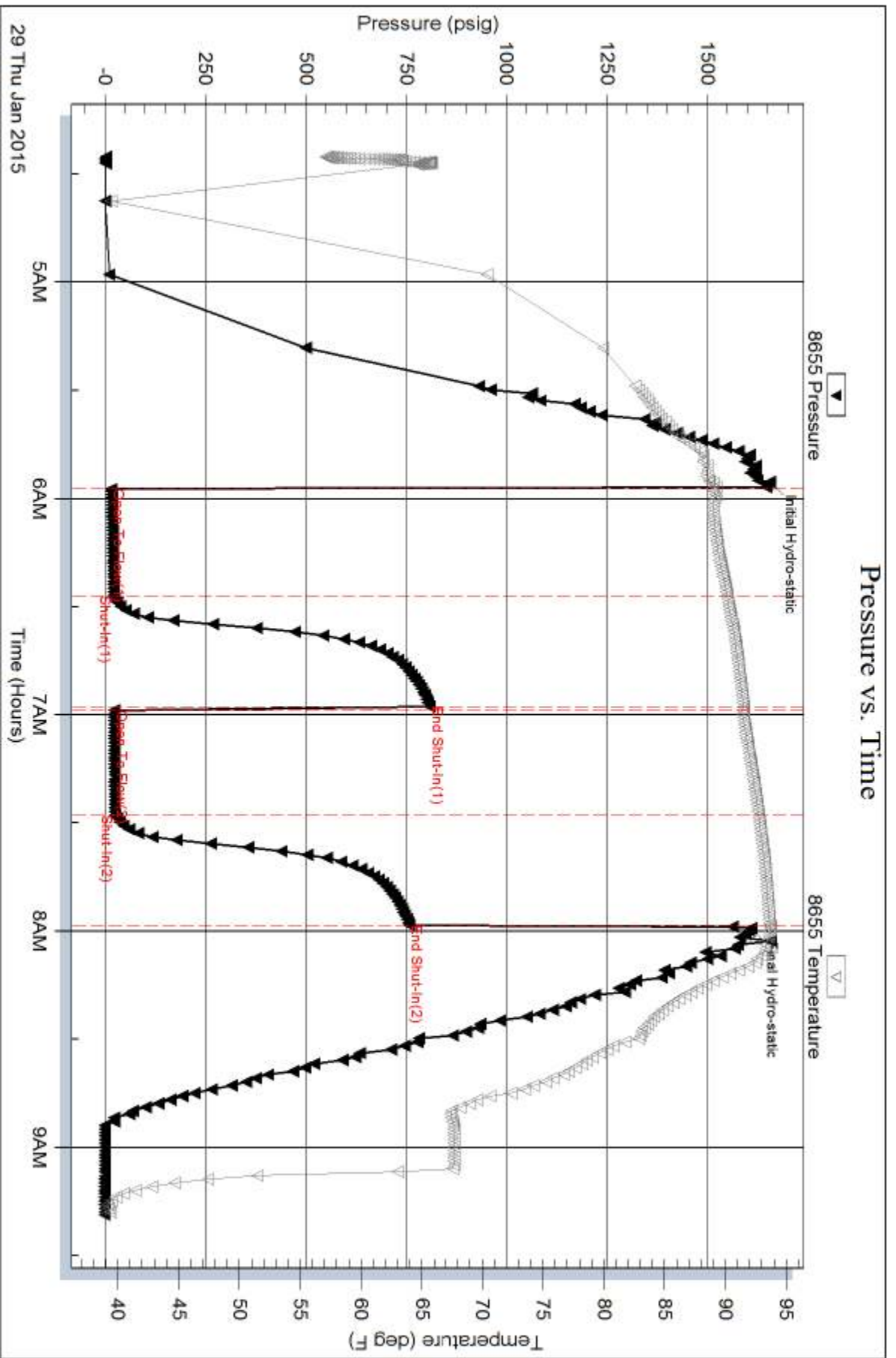
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



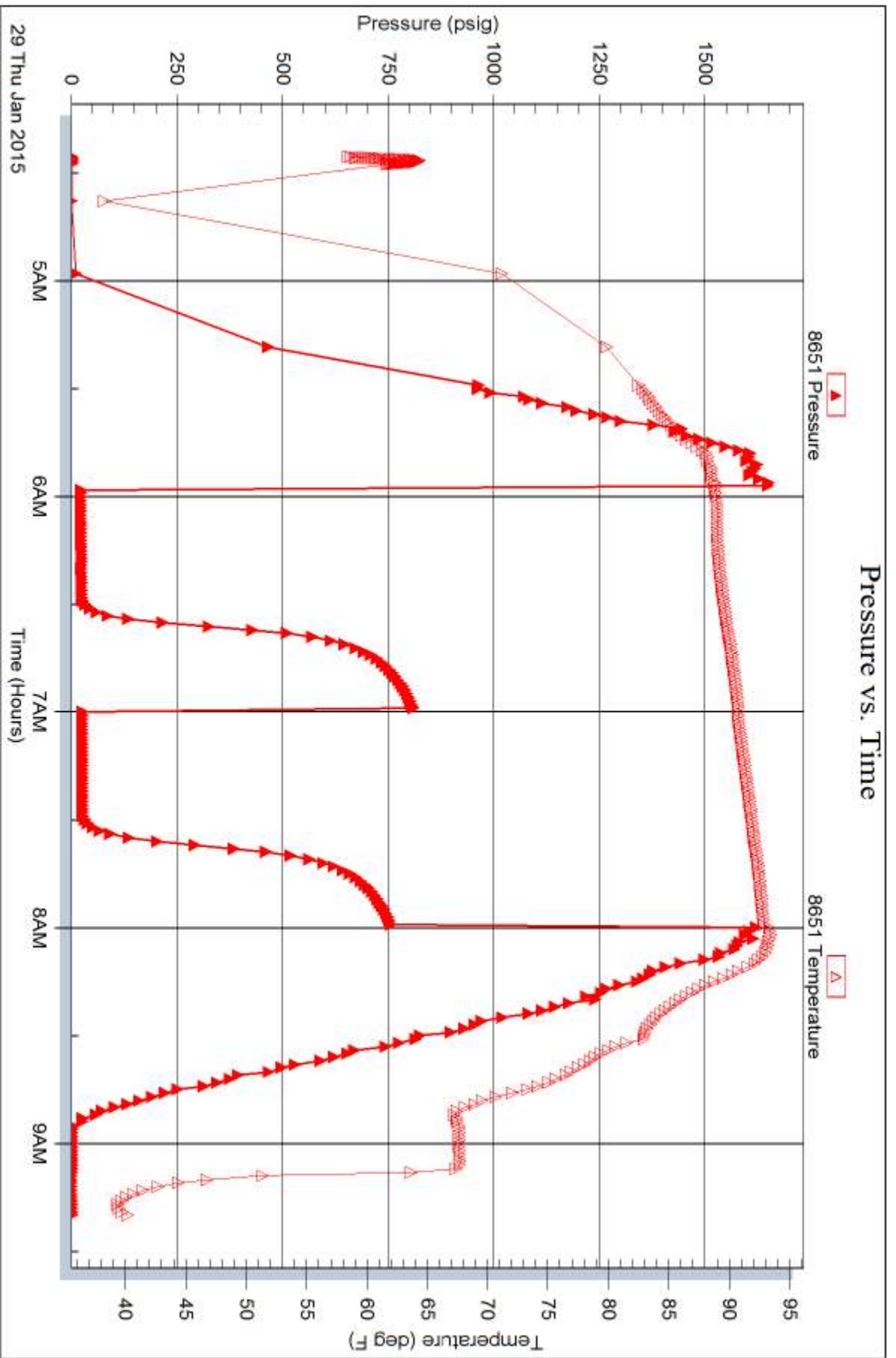
Serial #: 8651

Inside

Dow n/g-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks, KS

Start Date: 2015.01.29 @ 20:43:42

End Date: 2015.01.30 @ 01:53:12

Job Ticket #: 61155 DST #: 3

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

Printed: 2015.02.02 @ 09:12:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

GENERAL INFORMATION:

Formation: **LKC "H - J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:20:42

Time Test Ended: 01:53:12

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3448.00 ft (KB) To 3514.00 ft (KB) (TVD)

Reference Elevations: 2093.00 ft (KB)

Total Depth: 3514.00 ft (KB) (TVD)

2085.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 32.49 psig @ 3449.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.29

End Date:

2015.01.30

Last Calib.:

2015.01.30

Start Time:

20:43:43

End Time:

01:53:12

Time On Btm:

2015.01.29 @ 22:20:12

Time Off Btm:

2015.01.30 @ 00:22:12

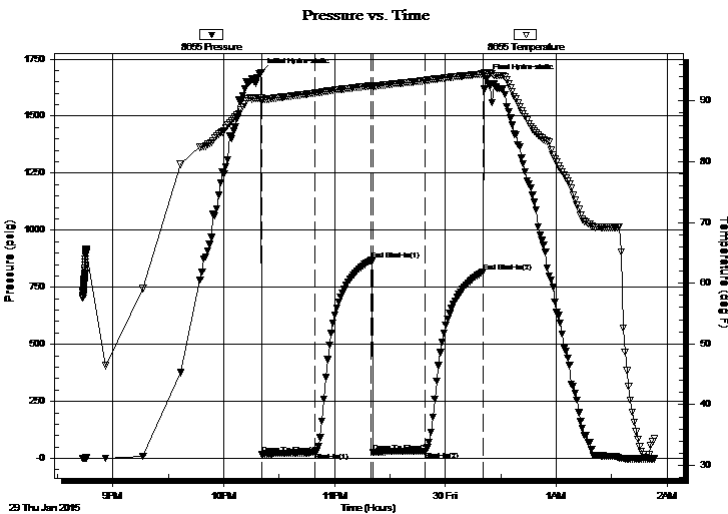
TEST COMMENT: 30- IF- Built very slow ly to 1"

30- IS- No blow

30- FF- Built very slow ly to 3/4"

30- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.51	90.47	Initial Hydro-static
1	18.86	90.18	Open To Flow (1)
29	25.94	91.29	Shut-In(1)
60	867.98	92.49	End Shut-In(1)
61	27.55	92.39	Open To Flow (2)
89	32.49	93.35	Shut-In(2)
120	816.77	94.44	End Shut-In(2)
122	1662.58	94.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

Tool Information

Drill Pipe:	Length: 3409.00 ft	Diameter: 3.75 inches	Volume: 46.57 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3448.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	66.00 ft			
Tool Length:	86.00 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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Change Over Sub	1.00			3429.00	
Shut In Tool	5.00			3434.00	
Hydraulic tool	5.00			3439.00	
Packer	5.00			3444.00	20.00 Bottom Of Top Packer
Packer	4.00			3448.00	
Stubb	1.00			3449.00	
Recorder	0.00	8651	Inside	3449.00	
Recorder	0.00	8655	Outside	3449.00	
Perforations	28.00			3477.00	
Change Over Sub	1.00			3478.00	
Drill Pipe	32.00			3510.00	
Change Over Sub	1.00			3511.00	
Bullnose	3.00			3514.00	66.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

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: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	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:

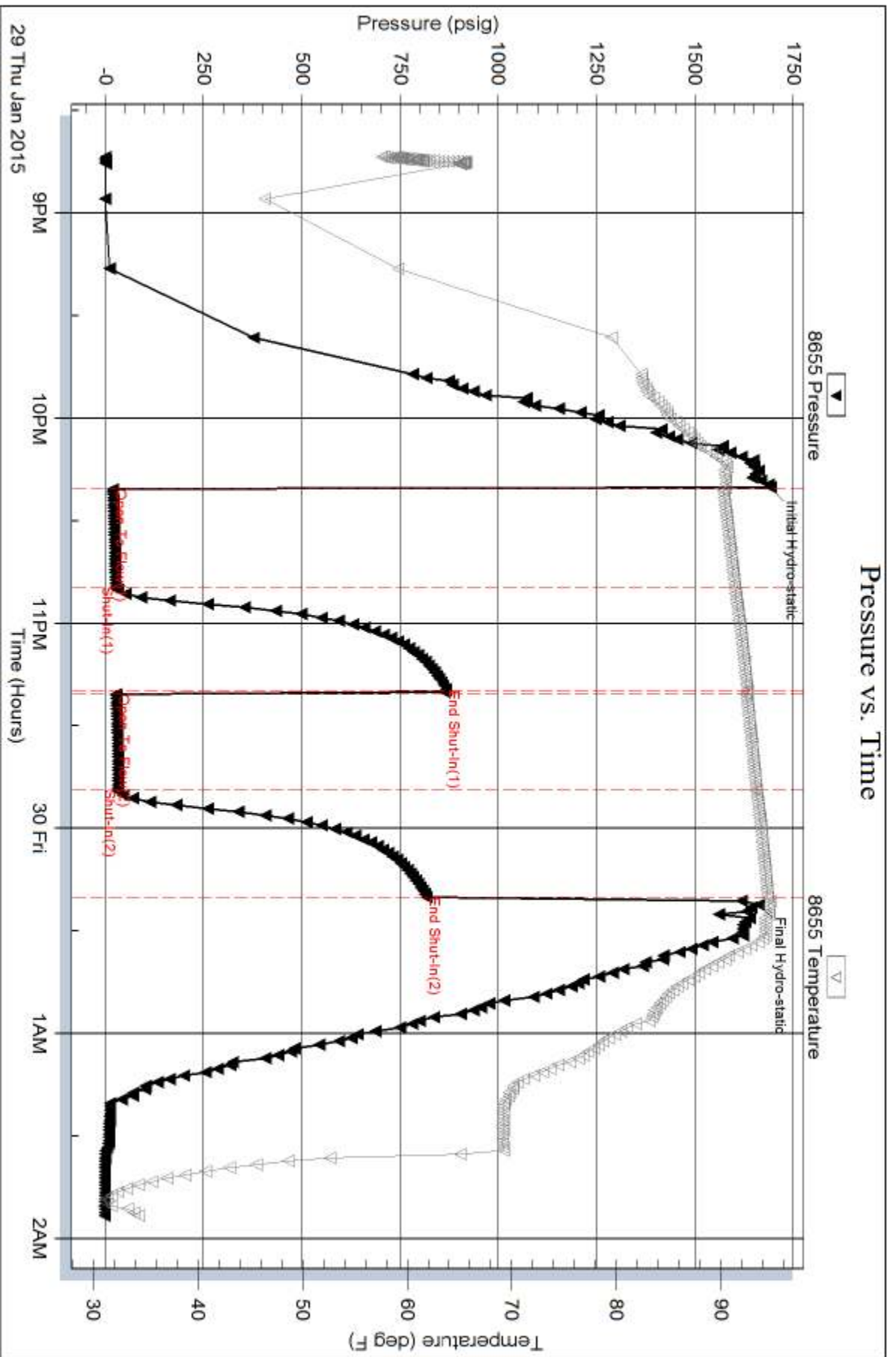
Recovery Comments:

Serial #: 8655

Outside Dow nng-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61155

Printed: 2015.02.02 @ 09:12:26

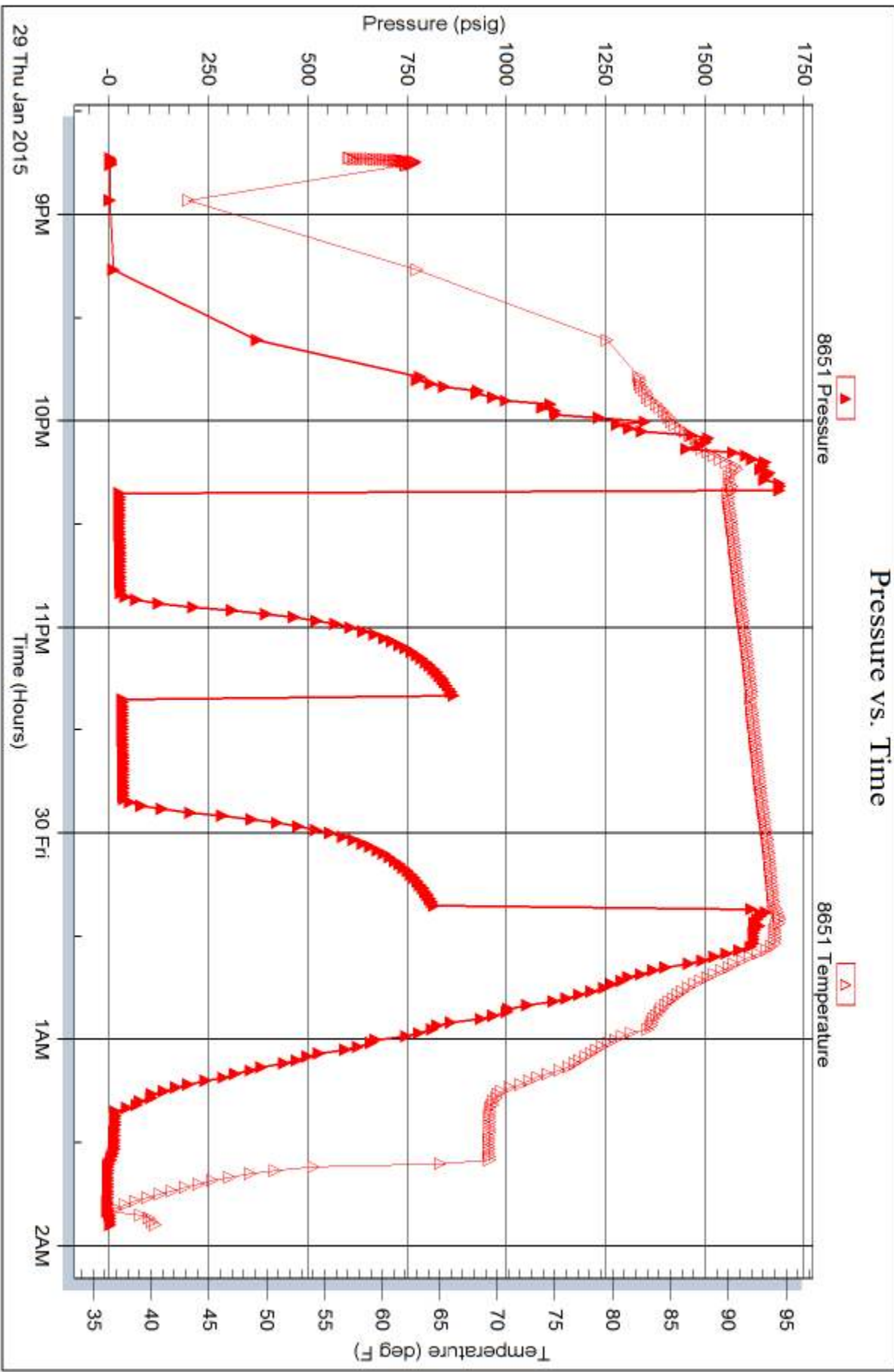
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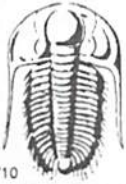
Inside

Dow nrg-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61153

4/10

Well Name & No. Jones #1-30 Test No. 1 Date 1/28/15
 Company Downing-Nelson Oil Co., Inc. Elevation 2093 KB 2085 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 20 Twp. 10 S Rge. 17 W Co. Rooks State KS

Interval Tested 3280-3395 Zone Tested top - LKC "D"
 Anchor Length 115' Drill Pipe Run 3250 Mud Wt. 9.1
 Top Packer Depth 3275 Drill Collars Run 29 Vis 53
 Bottom Packer Depth 3280 Wt. Pipe Run --- WL 8.0
 Total Depth 3395 Chlorides 1,500 ppm System LCM 2#
 Blow Description IF - 1/2" blow throughout
ISI - No blow
FF - No blow
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</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 94° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1598
- (B) First Initial Flow 16
- (C) First Final Flow 18
- (D) Initial Shut-In 296
- (E) Second Initial Flow 19
- (F) Second Final Flow 20
- (G) Final Shut-In 180
- (H) Final Hydrostatic 1555

- Test 1050
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 48 RT 48
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1098

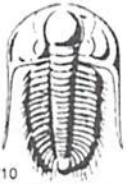
- T-On Location 1353
- T-Started 1404
- T-Open 1643
- T-Pulled 1843
- T-Out 2056

- Comments _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1098
- MP/DST Disc't _____

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

Approved By _____ Our Representative Brennan Lonsdale

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. **61154**

4/10

Well Name & No. Jones #1-30 Test No. 2 Date 1/29/15
 Company Downing-Nelson Oil Co, Inc. Elevation 2093 KB 2055 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 30 Twp. 10 S Rge. 17 W Co. Rooks State KS

Interval Tested 3392-3416 Zone Tested LKC "R+F"
 Anchor Length 24' Drill Pipe Run 3346 Mud Wt. 9.1
 Top Packer Depth 3387 Drill Collars Run 29 Vis 53
 Bottom Packer Depth 3392 Wt. Pipe Run — WL 8.0
 Total Depth 3416 Chlorides 1,500 ppm System LCM 2#

Blow Description IF - Intermittent surface blow
ISI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mw / oil spots</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

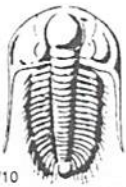
Rec Total 10' BHT 94° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1655 Test 1050 T-On Location 0417
 (B) First Initial Flow 16 Jars — T-Started 0425
 (C) First Final Flow 21 Safety Joint — T-Open 0558
 (D) Initial Shut-In 806 Circ Sub — T-Pulled 0758
 (E) Second Initial Flow 22 Hourly Standby — T-Out 0920
 (F) Second Final Flow 25 Mileage 48 RT 48 Comments —
 (G) Final Shut-In 756 Sampler —
 (H) Final Hydrostatic 1609 Straddle — Ruined Shale Packer —

Initial Open 30 Shale Packer — Ruined Packer —
 Initial Shut-In 30 Extra Packer — Extra Copies —
 Final Flow 30 Extra Recorder — Sub Total 0
 Final Shut-In 30 Day Standby — Total 1098
 Accessibility — MP/DST Disc't —
 Sub Total 1098

Approved By — Our Representative Brannon Longdale

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. **61155**

4/10

Well Name & No. Jones #1-30 Test No. 3 Date 1/29/15
 Company Powling-Nelson Oil Co., Inc. Elevation 2093 KB 2085 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Powling Rig Discovery #1
 Location: Sec. 30 Twp. 10S Rge. 17 W Co. Rooks State KS

Interval Tested 3448-3514 Zone Tested LKC "H-J"
 Anchor Length 66' Drill Pipe Run 3409 Mud Wt. 9.2
 Top Packer Depth 3443 Drill Collars Run 29 Vis 48
 Bottom Packer Depth 3448 Wt. Pipe Run — WL 8.8
 Total Depth 3514 Chlorides 5000 ppm System LCM 1A

Blow Description IF - Built very slowly to 1"
ISI - No flow
PF - Built very slowly to 3/4"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</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 94° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1692 Test 1050 T-On Location 2035
 (B) First Initial Flow 19 Jars _____ T-Started 2044
 (C) First Final Flow 26 Safety Joint _____ T-Open 2221
 (D) Initial Shut-In 868 Circ Sub _____ T-Pulled 0021 1/30
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 0155
 (F) Second Final Flow 32 Mileage 48 RT x 2 Comments Loaded tools
 (G) Final Shut-In 817 Sampler 48+48 1/31 @ 0015
 (H) Final Hydrostatic 1663 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1146
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1146

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

Approved By _____ Our Representative Brannan Lonsdale

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