



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

Barry Urban #1-17

17-16s-17w Rush,KS

Start Date: 2014.05.19 @ 10:14:01

End Date: 2014.05.19 @ 15:58:01

Job Ticket #: 54210 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.23 @ 09:36:26



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 54210

DST#: 1

ATTN: Mark Dow ning

Test Start: 2014.05.19 @ 10:14:01

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:19:31

Time Test Ended: 15:58:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 2968.00 ft (KB) To 2992.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 2992.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8352 Outside

Press@RunDepth: 20.24 psig @ 2964.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19

End Date:

2014.05.19

Last Calib.:

2014.05.19

Start Time: 10:14:06

End Time:

15:58:00

Time On Btm:

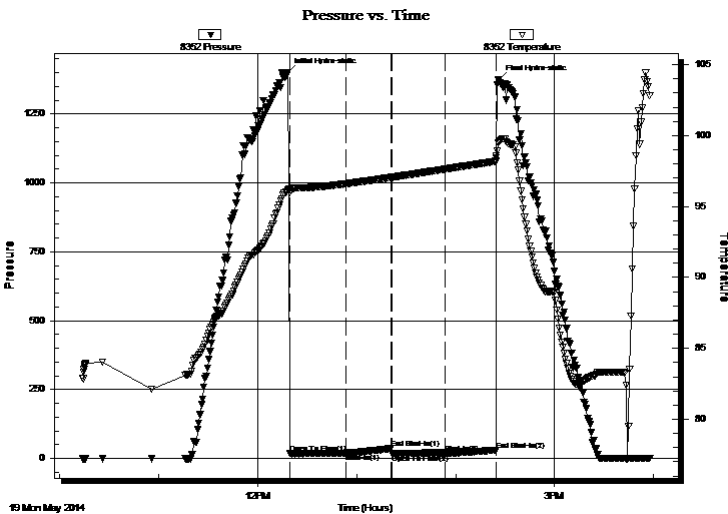
2014.05.19 @ 12:18:31

Time Off Btm:

2014.05.19 @ 14:26:16

TEST COMMENT: IF:Weak blow . 12 - 2 1/4".
IS:No blow .
FF:Weak blow . 1/2 - 1 1/2".
FS:No blow .

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1399.03	96.16	Initial Hydro-static
1	18.14	95.98	Open To Flow (1)
36	19.96	96.61	Shut-In(1)
63	36.10	97.06	End Shut-In(1)
63	16.83	97.05	Open To Flow (2)
96	20.24	97.64	Shut-In(2)
126	30.52	98.19	End Shut-In(2)
128	1375.10	99.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / o specs.	0.10
0.00	45 ft.of GIP	0.00

Gas Rates

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



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Job Ticket: 54210

DST#: 1

ATTN: Mark Dow ning

Test Start: 2014.05.19 @ 10:14:01

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:19:31

Time Test Ended: 15:58:01

Test Type: Conventional Bottom Hole (Initial)

Tester: Gary Pevoteaux

Unit No: 56

Interval: 2968.00 ft (KB) To 2992.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 2992.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8370 Inside

Press@RunDepth: psig @ 2964.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.19 End Date: 2014.05.19

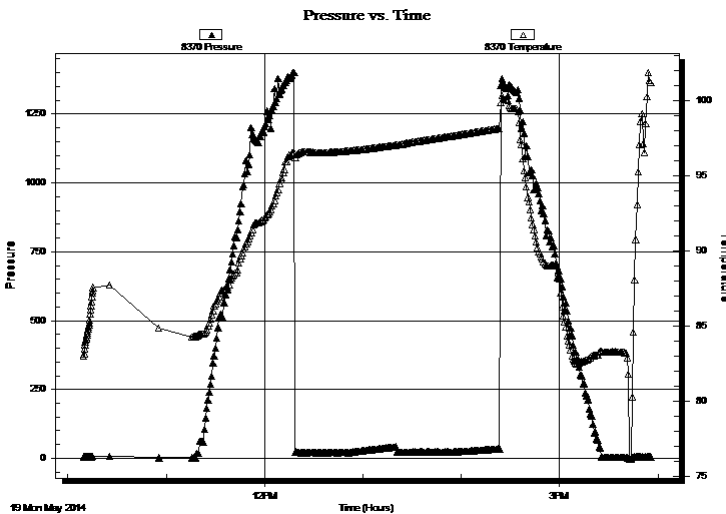
Last Calib.: 2014.05.19

Start Time: 10:09:35 End Time: 15:55:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF:Weak blow . 12 - 2 1/4".
IS:No blow .
FF:Weak blow . 1/2 - 1 1/2".
FS:No blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud w / o specs.	0.10
0.00	45 ft.of 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.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 54210

DST#: 1

ATTN: Mark Dow ning

Test Start: 2014.05.19 @ 10:14:01

Tool Information

Drill Pipe:	Length: 2948.00 ft	Diameter: 3.80 inches	Volume: 41.35 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	24000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	59000.00 lb
			<u>Total Volume: 41.50 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial	46000.00 lb
Depth to Top Packer:	2963.00 ft			Final	47000.00 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			2944.00	
Shut In Tool	5.00			2949.00	
Hydraulic tool	5.00			2954.00	
Packer	4.00			2958.00	20.00 Bottom Of Top Packer
Packer	5.00			2963.00	
Stubb	1.00			2964.00	
Recorder	0.00	8352	Outside	2964.00	
Recorder	0.00	8370	Inside	2964.00	
Perforations	18.00			2982.00	
Bullnose	5.00			2987.00	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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 54210

DST#: 1

ATTN: Mark Dow ning

Test Start: 2014.05.19 @ 10:14:01

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:

2500 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
20.00	Mud w / o specs.	0.098
0.00	45 ft.of GIP	0.000

Total Length: 20.00 ft Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

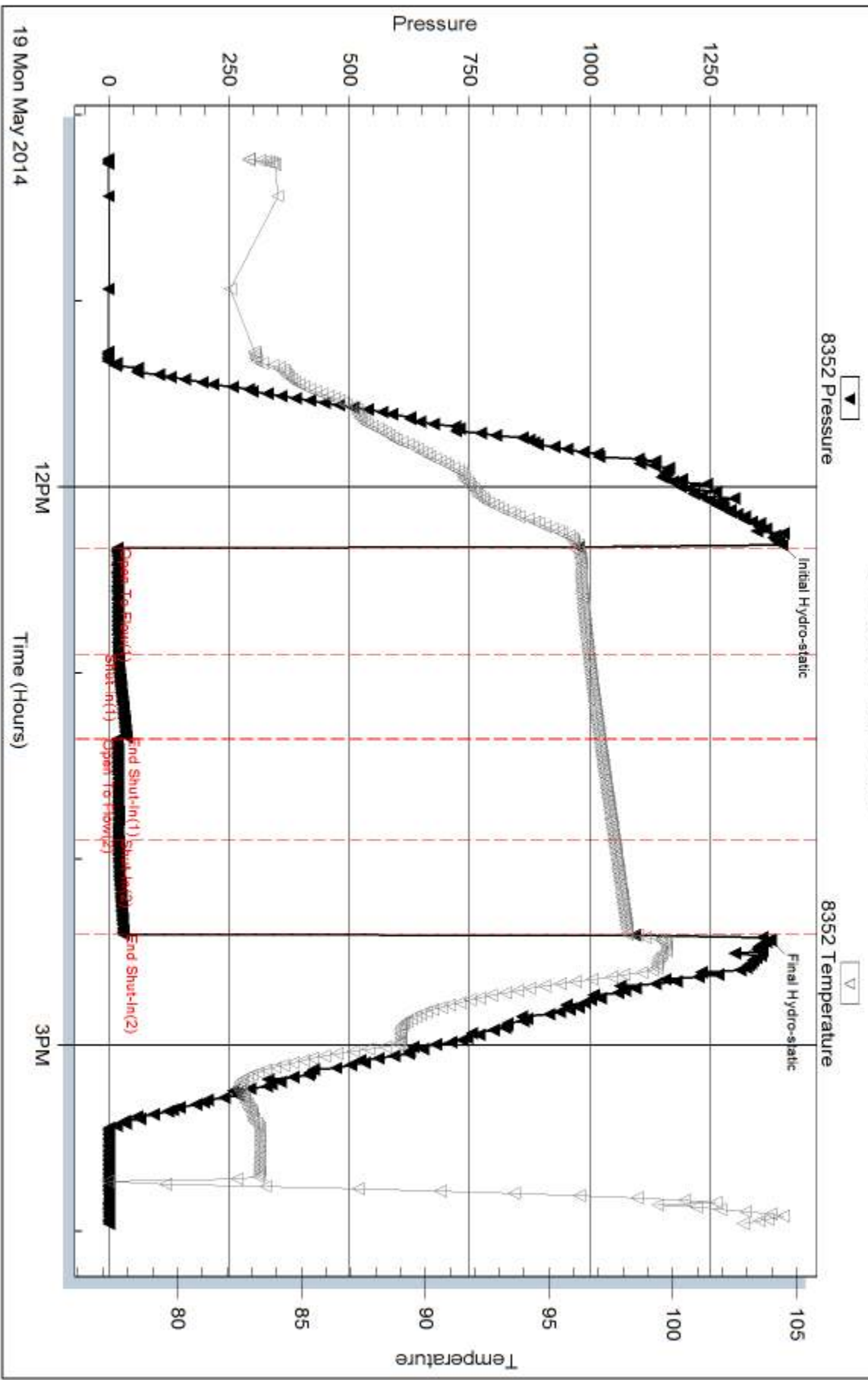
Serial #: 8352

Outside Dow nting-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 1

Pressure vs. Time



19 Mon May 2014

Triobite Testing, Inc

Ref. No: 54210

Printed: 2014.05.23 @ 09:36:27

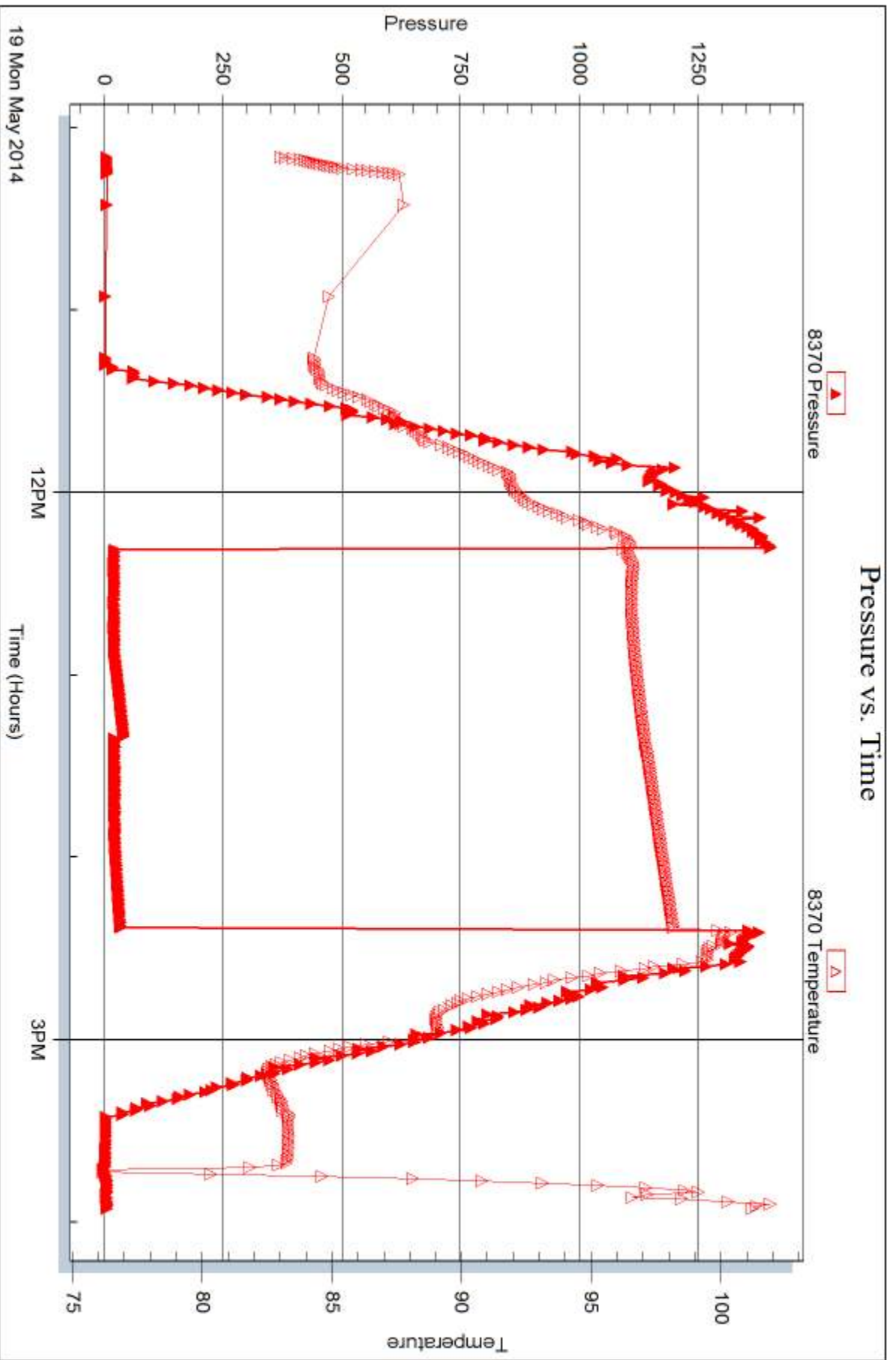
Serial #: 8370

Inside

Dow nng-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 1



Tribble Testing, Inc

Ref. No: 54210

Printed: 2014.05.23 @ 09:36:27



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

Barry Urban #1-17

17-16s-17w Rush,KS

Start Date: 2014.05.20 @ 11:05:00

End Date: 2014.05.20 @ 17:13:00

Job Ticket #: 55279 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.23 @ 09:36:04

Downing-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

Barry Urban #1-17

DST # 2

Toront - LKC "A"

2014.05.20



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

ATTN: Mark Dow ning

Job Ticket: 55279

DST#: 2

Test Start: 2014.05.20 @ 11:05:00

GENERAL INFORMATION:

Formation: **Toront - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:25:00

Time Test Ended: 17:13:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Bob Hamel

Unit No: 76

Interval: 3209.00 ft (KB) To 3275.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8679 Inside

Press@RunDepth: 42.73 psig @ 3246.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.20 End Date: 2014.05.20

Last Calib.: 2014.05.20

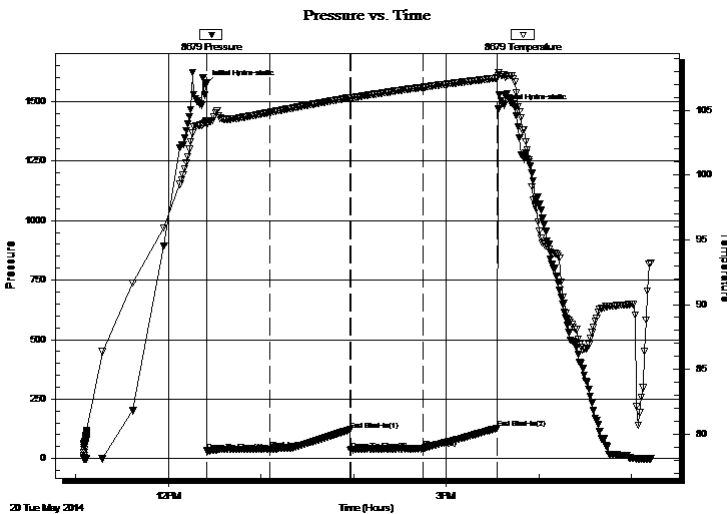
Start Time: 11:05:01 End Time: 17:13:00

Time On Btm: 2014.05.20 @ 12:24:00

Time Off Btm: 2014.05.20 @ 15:34:00

TEST COMMENT: I.F. - 45 - Weak blow built to 5 1/4"
I.S.I. - 45 - Weak surface blow back died in 15 min
F.F. - 45 - Weak blow built to 6 1/2"
F.S.I. - 45 - No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1572.52	104.13	Initial Hydro-static
1	32.29	103.94	Open To Flow (1)
42	38.69	104.83	Shut-In(1)
94	120.67	105.97	End Shut-In(1)
94	35.80	105.94	Open To Flow (2)
141	42.73	106.78	Shut-In(2)
189	127.01	107.49	End Shut-In(2)
190	1471.69	107.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
35.00	O,C,M, 10%O 90%M	0.20

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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 55279

DST#: 2

ATTN: Mark Dow ning

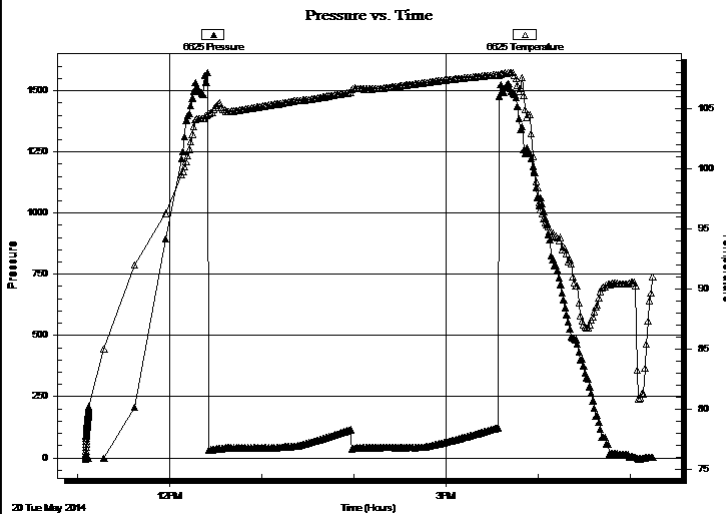
Test Start: 2014.05.20 @ 11:05:00

GENERAL INFORMATION:

Formation: **Toront - LKC "A"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:25:00
 Time Test Ended: 17:13:00
 Interval: **3209.00 ft (KB) To 3275.00 ft (KB) (TVD)**
 Total Depth: 3275.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Bob Hamel
 Unit No: 76
 Reference Elevations: 1974.00 ft (KB)
 1966.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 6625 Outside
 Press@RunDepth: psig @ 3246.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.05.20 End Date: 2014.05.20 Last Calib.: 2014.05.20
 Start Time: 11:05:01 End Time: 17:14:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: I.F. - 45 - Weak blow built to 5 1/4"
 I.S.I. - 45 - Weak surface blow back died in 15 min
 F.F. - 45 - Weak blow built to 6 1/2"
 F.S.I. - 45 - No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
35.00	O,C,M, 10%O 90%M	0.20

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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 55279

DST#: 2

ATTN: Mark Dow ning

Test Start: 2014.05.20 @ 11:05:00

Tool Information

Drill Pipe:	Length: 3170.00 ft	Diameter: 3.80 inches	Volume: 44.47 bbl	Tool Weight:	2400.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	30000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	50000.00 lb
			<u>Total Volume: 44.63 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	13.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3209.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between 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			3190.00	
Shut In Tool	5.00			3195.00	
Hydraulic tool	5.00			3200.00	
Packer	4.00			3204.00	20.00 Bottom Of Top Packer
Packer	5.00			3209.00	
Stubb	1.00			3210.00	
Perforations	3.00			3213.00	
Change Over Sub	1.00			3214.00	
Drill Pipe	31.00			3245.00	
Change Over Sub	1.00			3246.00	
Recorder	0.00	6625	Outside	3246.00	
Recorder	0.00	8679	Inside	3246.00	
Perforations	25.00			3271.00	
Bullnose	4.00			3275.00	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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 55279

DST#: 2

ATTN: Mark Dow ning

Test Start: 2014.05.20 @ 11:05:00

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: 49.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	O,C,M, 10%O 90%M	0.199

Total Length: 35.00 ft Total Volume: 0.199 bbl

Num Fluid Samples: 0

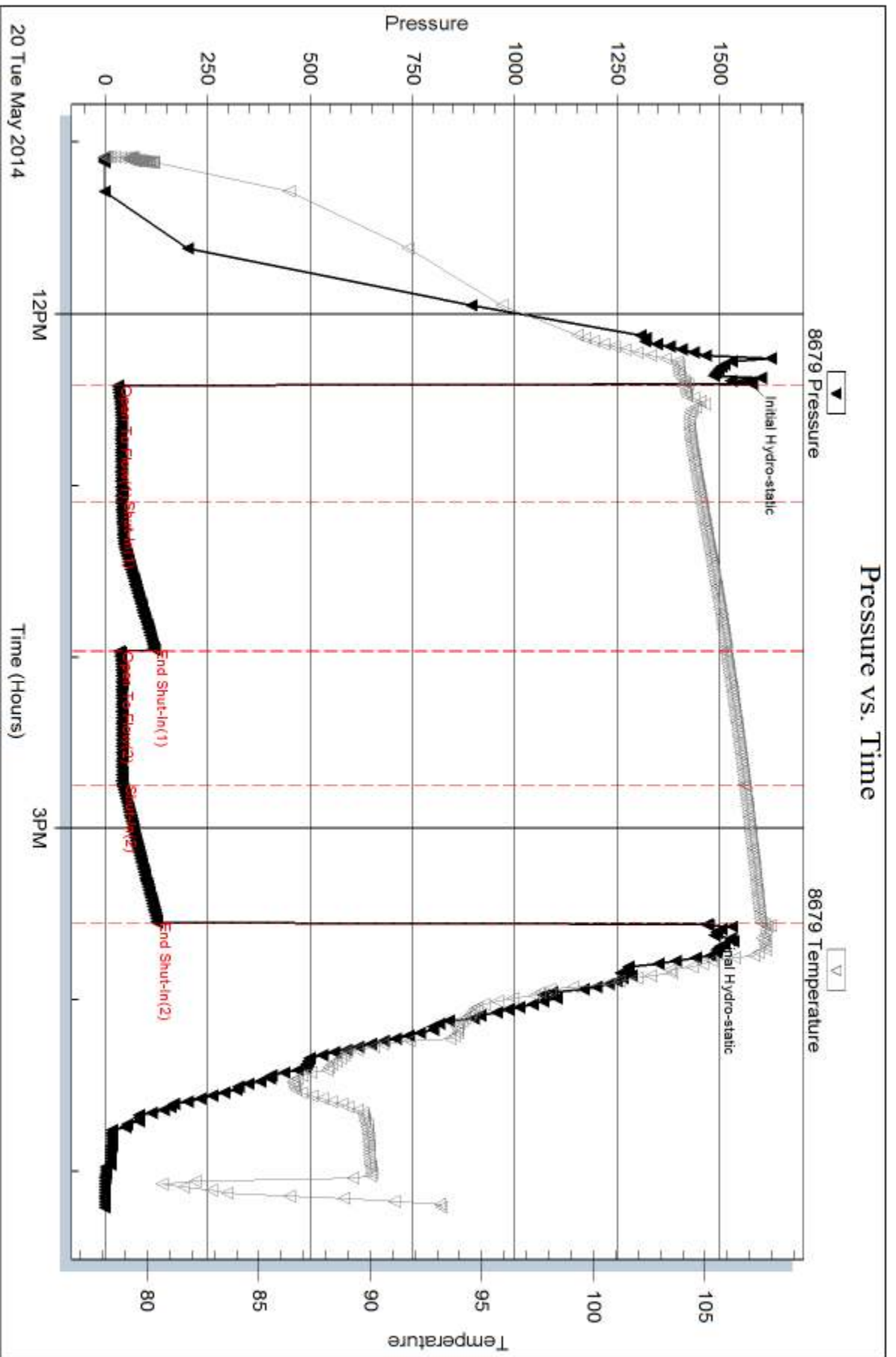
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

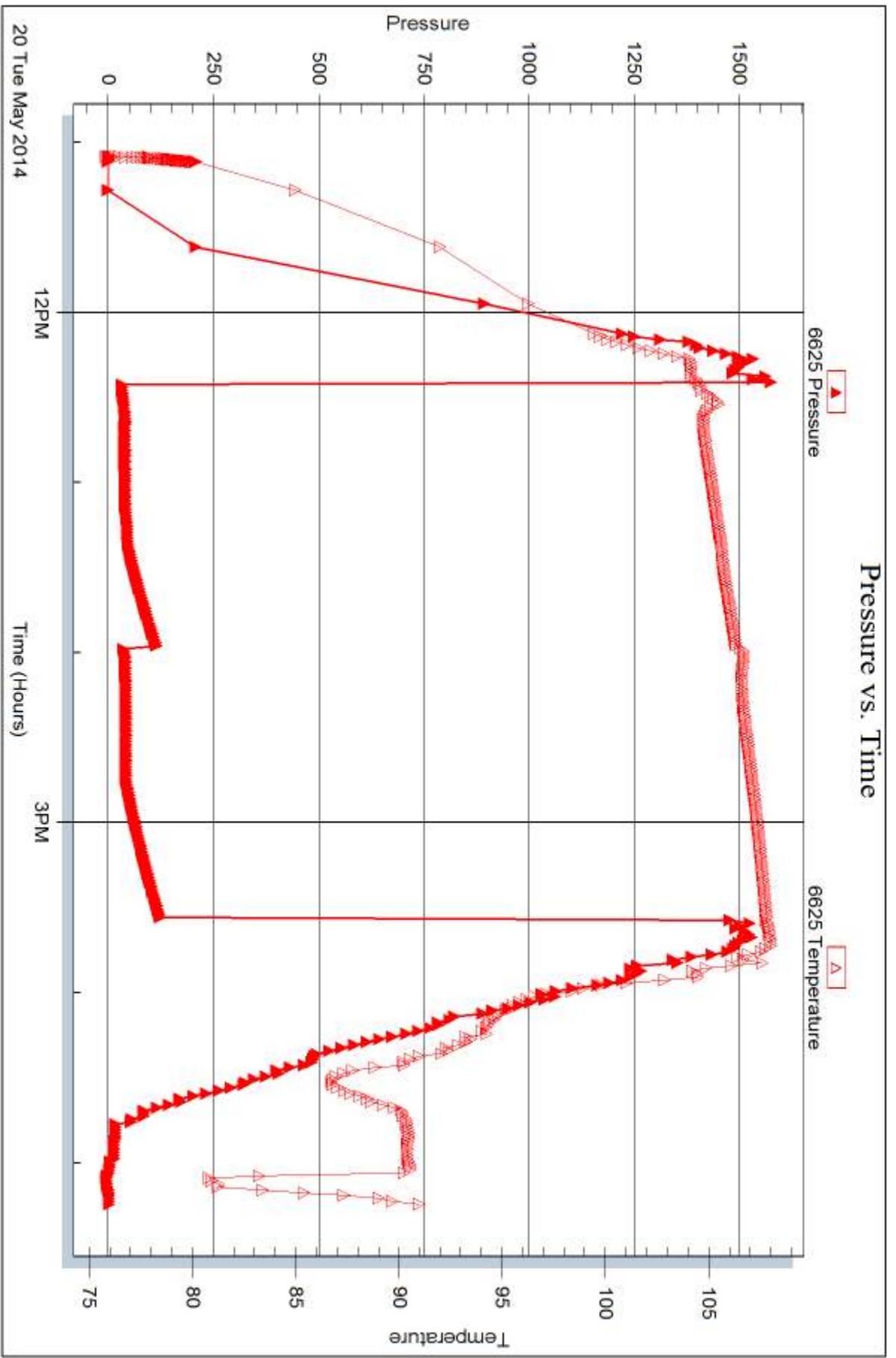


Serial #: 6625

Outside Dow nng-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 55279

Printed: 2014.05.23 @ 09:36:06



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

Barry Urban #1-17

17-16s-17w Rush,KS

Start Date: 2014.05.21 @ 00:13:00

End Date: 2014.05.21 @ 06:03:00

Job Ticket #: 58891 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.23 @ 09:35:43

Downing-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

Barry Urban #1-17

DST # 3

LKC "D"

2014.05.21



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58891

DST#: 3

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 00:13:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:36:30

Time Test Ended: 06:03:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 67

Interval: 3292.00 ft (KB) To 3317.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3317.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8679 Outside

Press@RunDepth: 17.45 psig @ 3293.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 00:13:01

End Time:

06:03:00

Time On Btm:

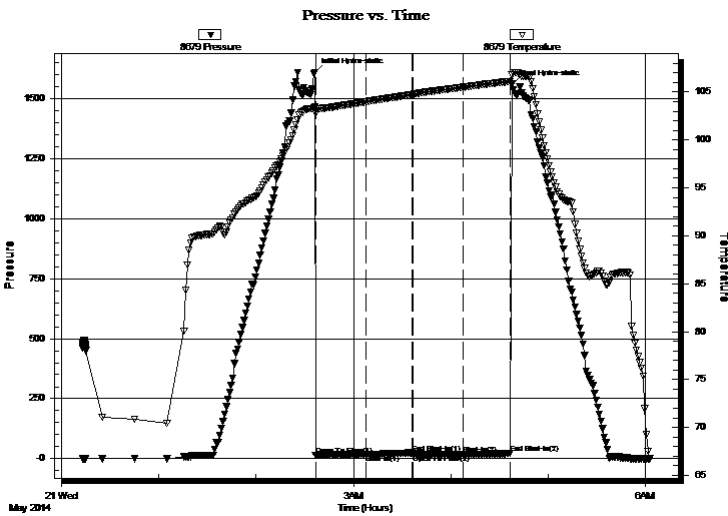
2014.05.21 @ 02:36:00

Time Off Btm:

2014.05.21 @ 04:37:30

TEST COMMENT: 30-IF-Built to 1/4"
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1610.35	103.43	Initial Hydro-static
1	14.39	102.79	Open To Flow (1)
32	16.48	103.98	Shut-In(1)
60	24.31	104.73	End Shut-In(1)
61	17.50	104.74	Open To Flow (2)
92	17.45	105.50	Shut-In(2)
121	21.16	106.11	End Shut-In(2)
122	1561.35	106.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M, 100% m, with oil spots	0.01

* Recovery from multiple tests

Gas Rates

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



TRIOLOBITE TESTING, INC

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Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

ATTN: Mark Dow ning

Job Ticket: 58891

DST#: 3

Test Start: 2014.05.21 @ 00:13:00

GENERAL INFORMATION:

Formation: **LKC "D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:36:30

Time Test Ended: 06:03:00

Interval: 3292.00 ft (KB) To 3317.00 ft (KB) (TVD)

Total Depth: 3317.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 67

Reference Elevations: 1974.00 ft (KB)

1966.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 6625

Inside

Press@RunDepth: psig @ 3293.00 ft (KB)

Start Date: 2014.05.21

End Date: 2014.05.21

Start Time: 00:13:01

End Time: 06:04:00

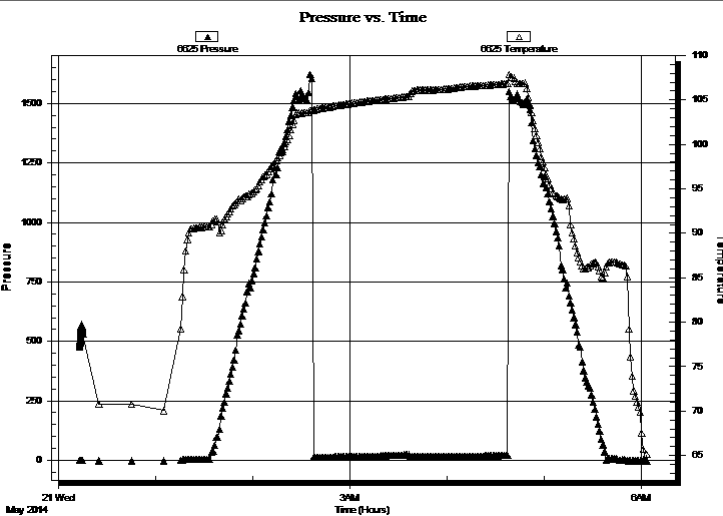
Capacity: 8000.00 psig

Last Calib.: 2014.05.21

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-Built to 1/4"
30-ISI-No Return
30-FF-No Blow
30-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
3.00	M, 100% m, with oil spots	0.01

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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58891

DST#: 3

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 00:13:00

Tool Information

Drill Pipe:	Length: 3265.00 ft	Diameter: 3.80 inches	Volume: 45.80 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 45.95 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial	49000.00 lb
Depth to Top Packer:	3292.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	25.00 ft				
Tool Length:	45.00 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			3273.00	
Shut In Tool	5.00			3278.00	
Hydraulic tool	5.00			3283.00	
Packer	4.00			3287.00	20.00 Bottom Of Top Packer
Packer	5.00			3292.00	
Stubb	1.00			3293.00	
Recorder	0.00	8679	Outside	3293.00	
Recorder	0.00	6625	Inside	3293.00	
Perforations	20.00			3313.00	
Bullnose	4.00			3317.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58891

DST#: 3

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 00:13:00

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: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3.00	M, 100% m, with oil spots	0.015

Total Length: 3.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

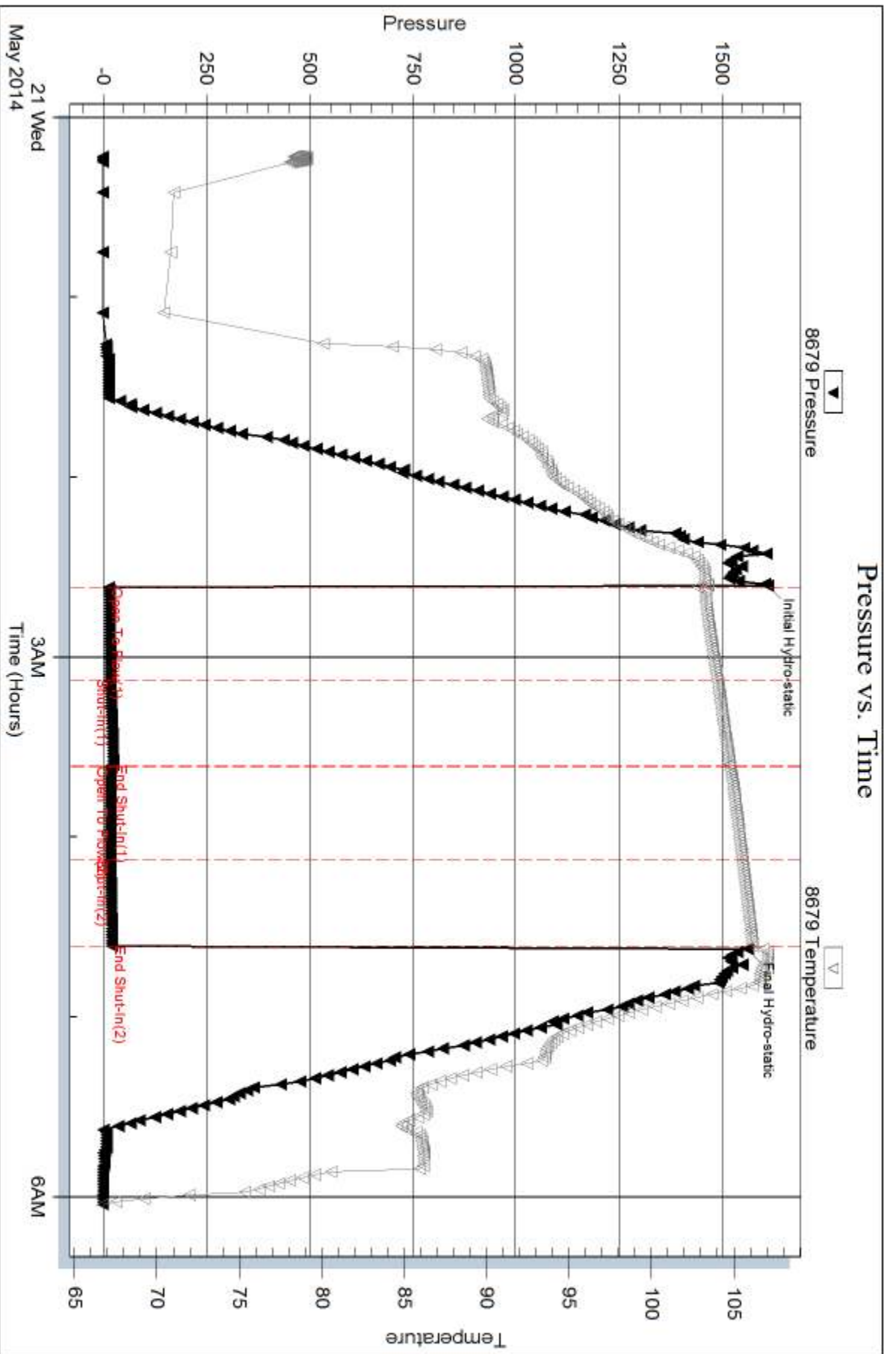
Recovery Comments:

Serial #: 8679

Outside Dow nrg-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58891

Printed: 2014.05.23 @ 09:35:44

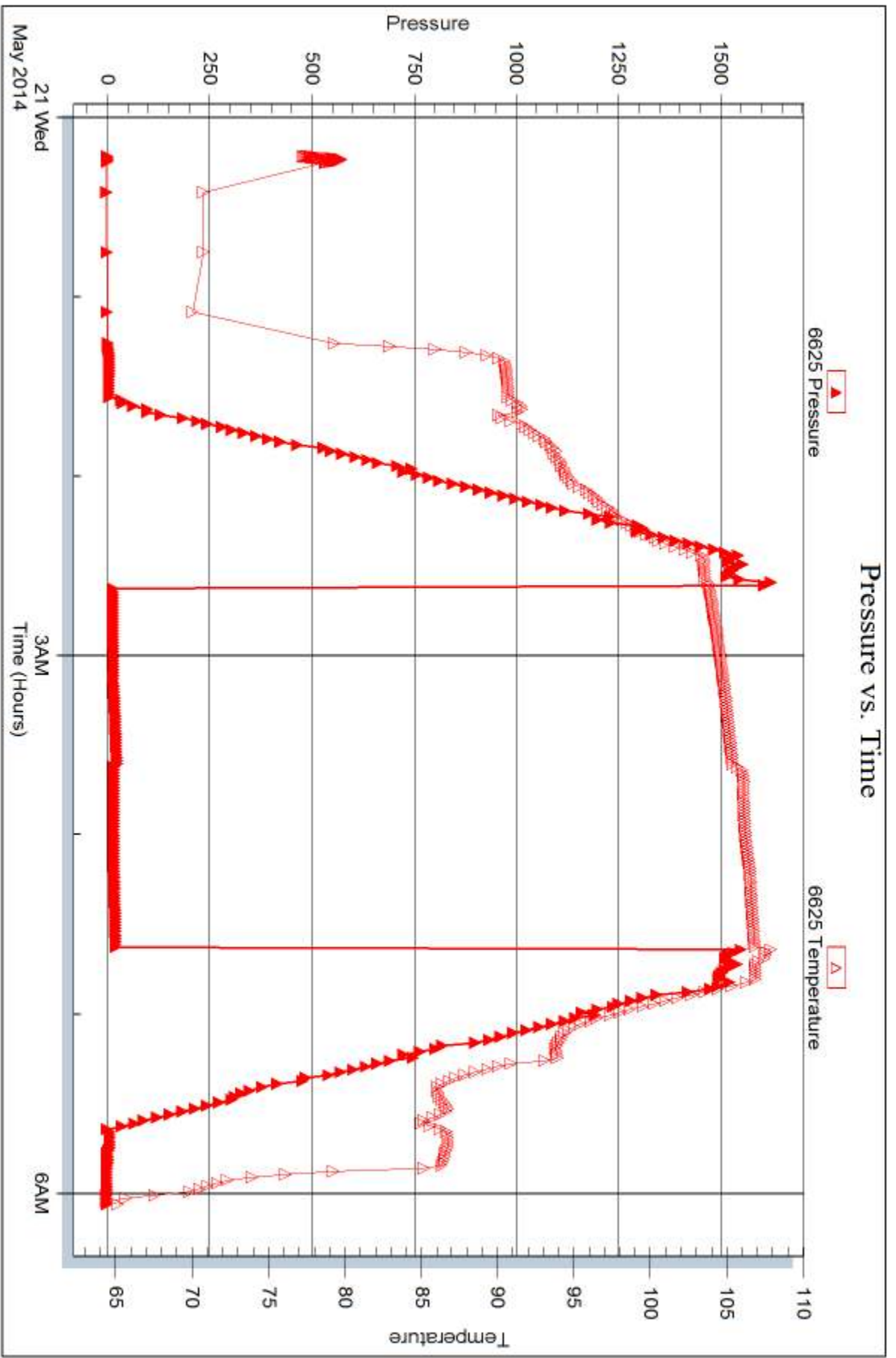
Serial #: 6625

Inside

Dow nrg-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 58891

Printed: 2014.05.23 @ 09:35:44



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

Barry Urban #1-17

17-16s-17w Rush,KS

Start Date: 2014.05.21 @ 11:48:00

End Date: 2014.05.21 @ 18:41:00

Job Ticket #: 58892 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.23 @ 09:35:00

Downing-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

Barry Urban #1-17

DST # 4

LKC "E"

2014.05.21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58892

DST#: 4

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 11:48:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:30

Time Test Ended: 18:41:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip

Unit No: 67

Interval: 3312.00 ft (KB) To 3330.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8679 Outside

Press@RunDepth: 57.83 psig @ 3313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21

End Date:

2014.05.21

Last Calib.:

2014.05.21

Start Time: 11:48:01

End Time:

18:41:00

Time On Btm:

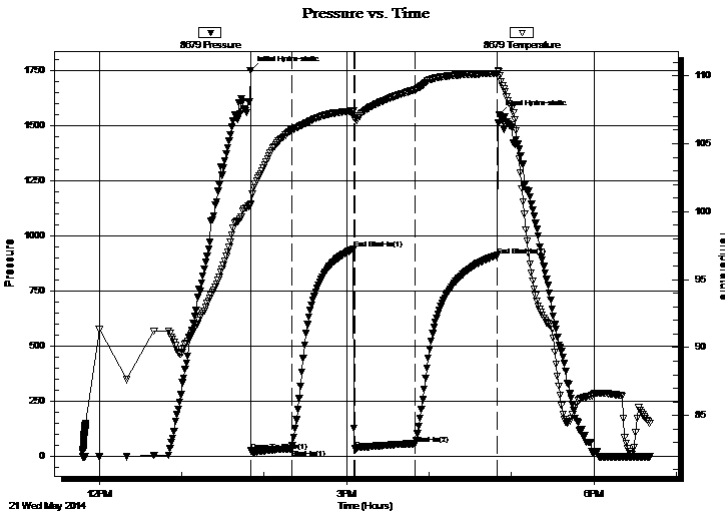
2014.05.21 @ 13:50:00

Time Off Btm:

2014.05.21 @ 16:51:00

TEST COMMENT: 30-IF-BOB in 4 mins
45-ISI-No Return
45-FF-BOB in 30 secs
60-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1749.98	100.52	Initial Hydro-static
1	26.34	100.59	Open To Flow (1)
30	35.80	105.99	Shut-In(1)
75	939.81	107.41	End Shut-In(1)
76	35.80	106.87	Open To Flow (2)
120	57.83	108.96	Shut-In(2)
180	911.94	110.17	End Shut-In(2)
181	1550.59	110.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSGMWCO, 5%g, 5%m, 5%w, 85%o	0.61
63.00	SMWEG, 10%m, 10%w, 40%e, 40%g	0.88
0.00	1890' GIP	0.00

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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58892

DST#: 4

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 11:48:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:50:30

Time Test Ended: 18:41:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip

Unit No: 67

Interval: 3312.00 ft (KB) To 3330.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3330.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3313.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.21 End Date: 2014.05.21

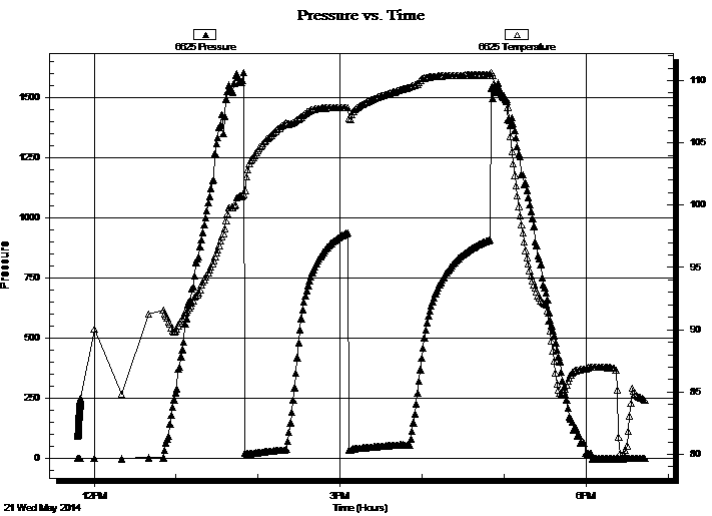
Last Calib.: 2014.05.21

Start Time: 11:48:01 End Time: 18:42:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 30-IF-BOB in 4 mins
45-ISI-No Return
45-FF-BOB in 30 secs
60-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSGMWCO, 5%g, 5%m, 5%w, 85%o	0.61
63.00	SMVEG, 10%m, 10%w, 40%e, 40%g	0.88
0.00	1890' 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.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58892

DST#: 4

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 11:48:00

Tool Information

Drill Pipe:	Length: 3296.00 ft	Diameter: 3.80 inches	Volume: 46.23 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	62000.00 lb
			<u>Total Volume: 46.38 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	34.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3312.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	18.00 ft				
Tool Length:	38.00 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			3293.00	
Shut In Tool	5.00			3298.00	
Hydraulic tool	5.00			3303.00	
Packer	4.00			3307.00	20.00 Bottom Of Top Packer
Packer	5.00			3312.00	
Stubb	1.00			3313.00	
Recorder	0.00	8679	Outside	3313.00	
Recorder	0.00	6625	Inside	3313.00	
Perforations	13.00			3326.00	
Bullnose	4.00			3330.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58892

DST#: 4

ATTN: Mark Dow ning

Test Start: 2014.05.21 @ 11:48:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	VSGMWCO, 5%g, 5%m, 5%w , 85%o	0.610
63.00	SMWEG, 10%m, 10%w , 40%e, 40%g	0.884
0.00	1890' GIP	0.000

Total Length: 126.00 ft

Total Volume: 1.494 bbl

Num Fluid Samples: 0

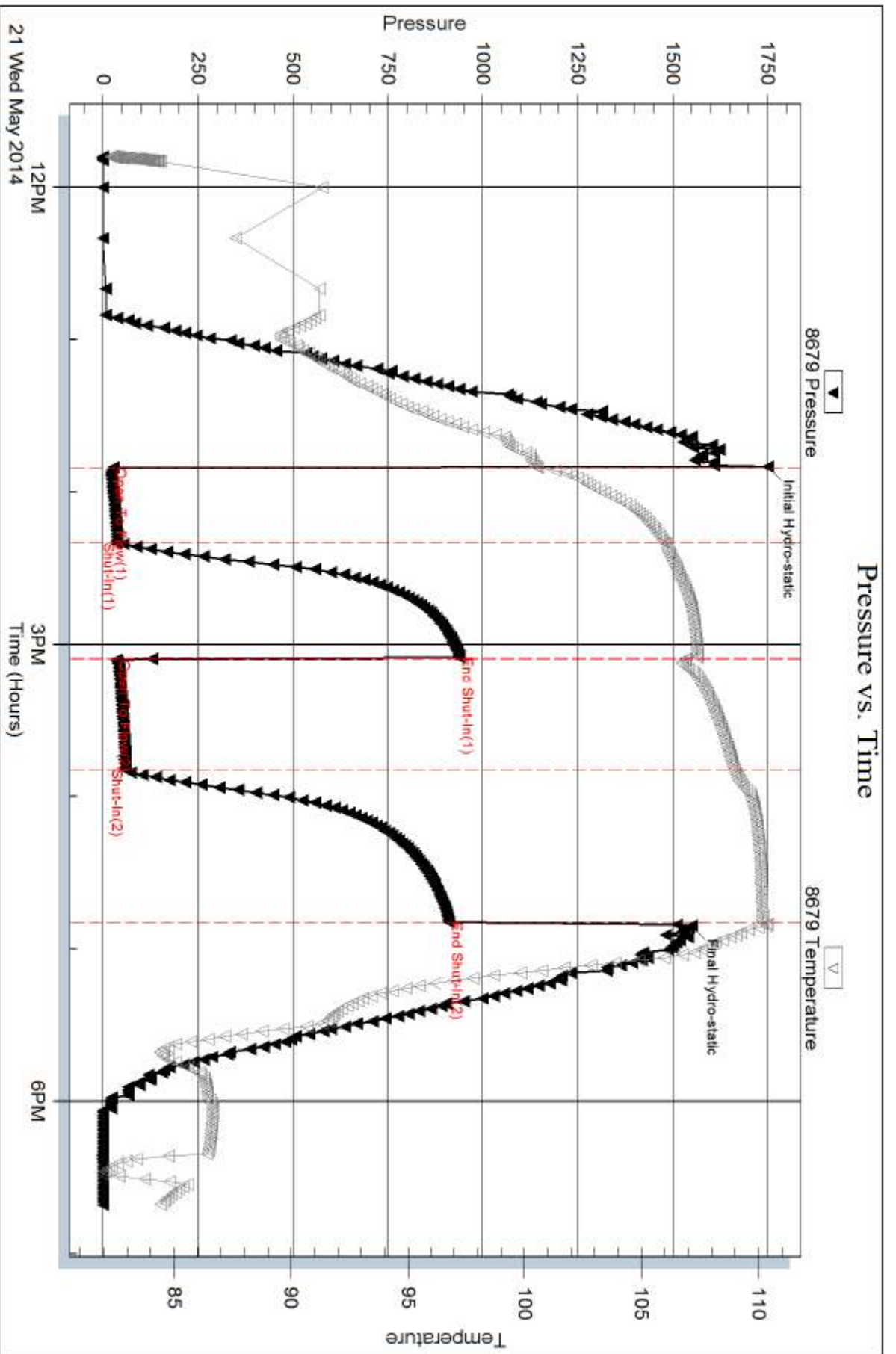
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



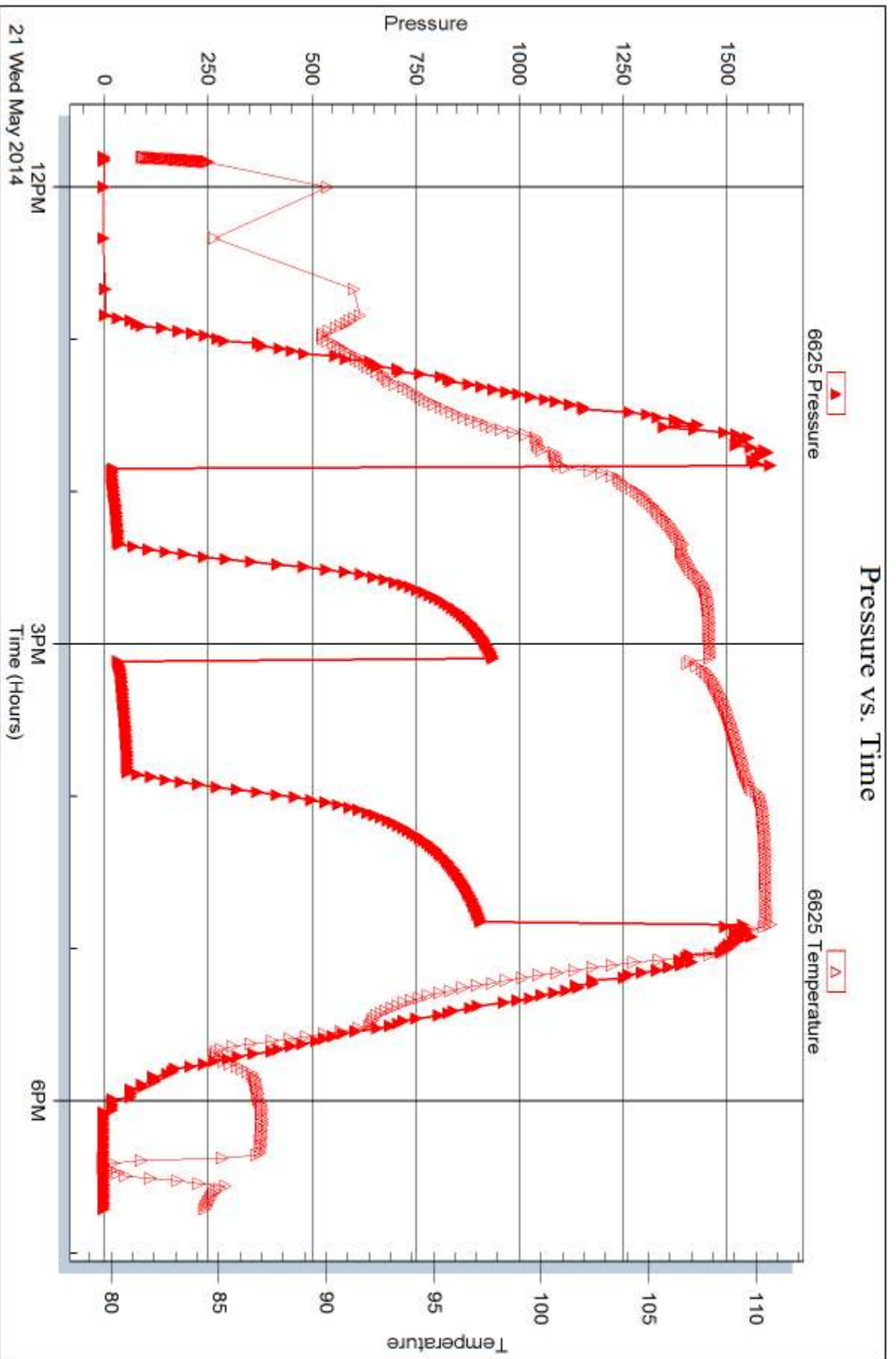
Serial #: 6625

Inside

Dow nrg-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 58892

Printed: 2014.05.23 @ 09:35:01



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Mark Downing

Barry Urban #1-17

17-16s-17w Rush,KS

Start Date: 2014.05.22 @ 05:02:00

End Date: 2014.05.22 @ 12:57:00

Job Ticket #: 58893 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.05.23 @ 09:34:46



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

ATTN: Mark Dow ning

Job Ticket: 58893

DST#: 5

Test Start: 2014.05.22 @ 05:02:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:37:30

Time Test Ended: 12:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 67

Interval: 3376.00 ft (KB) To 3442.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3442.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8679 Outside

Press@RunDepth: 328.77 psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22

End Date: 2014.05.22

Last Calib.: 2014.05.22

Start Time: 05:02:01

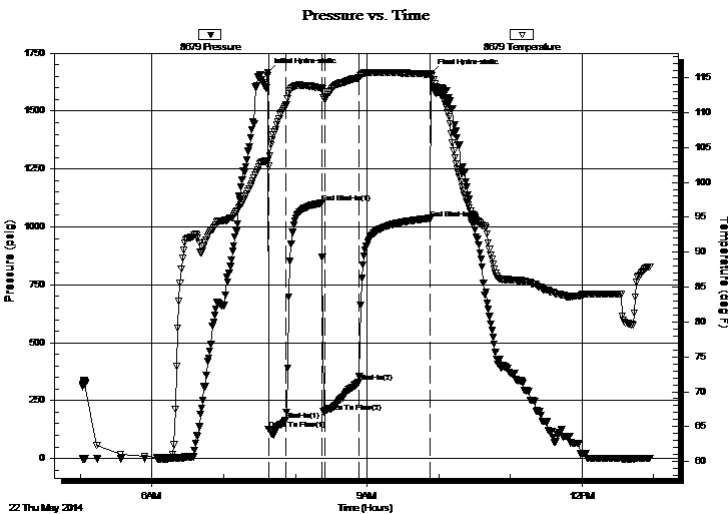
End Time: 12:57:00

Time On Btm: 2014.05.22 @ 07:37:00

Time Off Btm: 2014.05.22 @ 09:53:30

TEST COMMENT: 15-IF-BOB in 1 min.
30-ISI-BOB in 5 mins.
30-FF-BOB Instantly
60-FSI-BOB in 4 mins.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.95	103.10	Initial Hydro-static
1	127.41	102.31	Open To Flow (1)
15	165.92	110.99	Shut-In(1)
45	1103.31	113.52	End Shut-In(1)
48	198.50	111.88	Open To Flow (2)
76	328.77	114.98	Shut-In(2)
136	1036.42	115.47	End Shut-In(2)
137	1661.00	115.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSMOCG, 5% m, 40% o, 65% g	0.61
441.00	VSWMGCO, 5% w, 20% m, 25% g, 50% o	6.19
189.00	VSMGCO, 5% m, 10% g, 85% o	2.65
126.00	SMGCO, 10% m, 30% g, 60% o	1.77
31.00	GOCM, 15% g, 15% o, 70% m	0.43
0.00	2509' GIP (Gas to Surface)	0.00

* 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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58893

DST#: 5

ATTN: Mark Dow ning

Test Start: 2014.05.22 @ 05:02:00

GENERAL INFORMATION:

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

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:37:30

Time Test Ended: 12:57:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Phillip Gage

Unit No: 67

Interval: 3376.00 ft (KB) To 3442.00 ft (KB) (TVD)

Reference Elevations: 1974.00 ft (KB)

Total Depth: 3442.00 ft (KB) (TVD)

1966.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6625 Inside

Press@RunDepth: psig @ 3377.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.05.22 End Date: 2014.05.22

Last Calib.: 2014.05.22

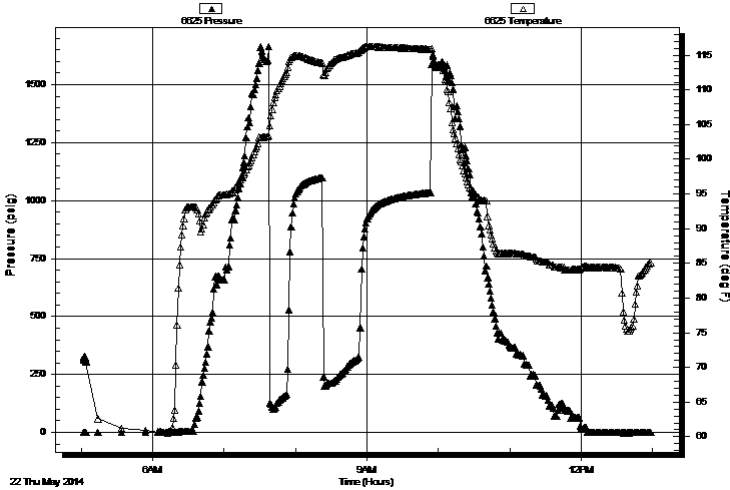
Start Time: 05:02:01 End Time: 12:58:30

Time On Btm:

Time Off Btm:

TEST COMMENT: 15-IF-BOB in 1 min.
30-ISI-BOB in 5 mins.
30-FF-BOB Instantly
60-FSI-BOB in 4 mins.

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSMOCG, 5% m, 40% o, 65% g	0.61
441.00	VSWMGCO, 5% w, 20% m, 25% g, 50% o	6.19
189.00	VSMGCO, 5% m, 10% g, 85% o	2.65
126.00	SMGCO, 10% m, 30% g, 60% o	1.77
31.00	GOCM, 15% g, 15% o, 70% m	0.43
0.00	2509' GIP (Gas to Surface)	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.Inc.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58893

DST#: 5

ATTN: Mark Dow ning

Test Start: 2014.05.22 @ 05:02:00

Tool Information

Drill Pipe:	Length: 3359.00 ft	Diameter: 3.80 inches	Volume: 47.12 bbl	Tool Weight:	2000.00 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: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	64000.00 lb
			<u>Total Volume: 47.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3376.00 ft			Final	55000.00 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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3357.00	
Shut In Tool	5.00			3362.00	
Hydraulic tool	5.00			3367.00	
Packer	4.00			3371.00	20.00 Bottom Of Top Packer
Packer	5.00			3376.00	
Stubb	1.00			3377.00	
Recorder	0.00	8679	Outside	3377.00	
Recorder	0.00	6625	Inside	3377.00	
Perforations	28.00			3405.00	
Change Over Sub	1.00			3406.00	
Drill Pipe	31.00			3437.00	
Change Over Sub	1.00			3438.00	
Bullnose	4.00			3442.00	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.

17-16s-17w Rush,KS

PO Box 1019
Hays KS 67601

Barry Urban #1-17

Job Ticket: 58893

DST#: 5

ATTN: Mark Dow ning

Test Start: 2014.05.22 @ 05:02:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
63.00	VSMOOG, 5%m, 40%o, 65%g	0.610
441.00	VSWMGCO, 5%w, 20%m, 25%g, 50%o	6.186
189.00	VSMGCO, 5%m, 10%g, 85%o	2.651
126.00	SMGCO, 10%m, 30%g, 60%o	1.767
31.00	GOCM, 15%g, 15%o, 70%m	0.435
0.00	2509' GIP (Gas to Surface)	0.000

Total Length: 850.00 ft

Total Volume: 11.649 bbl

Num Fluid Samples: 0

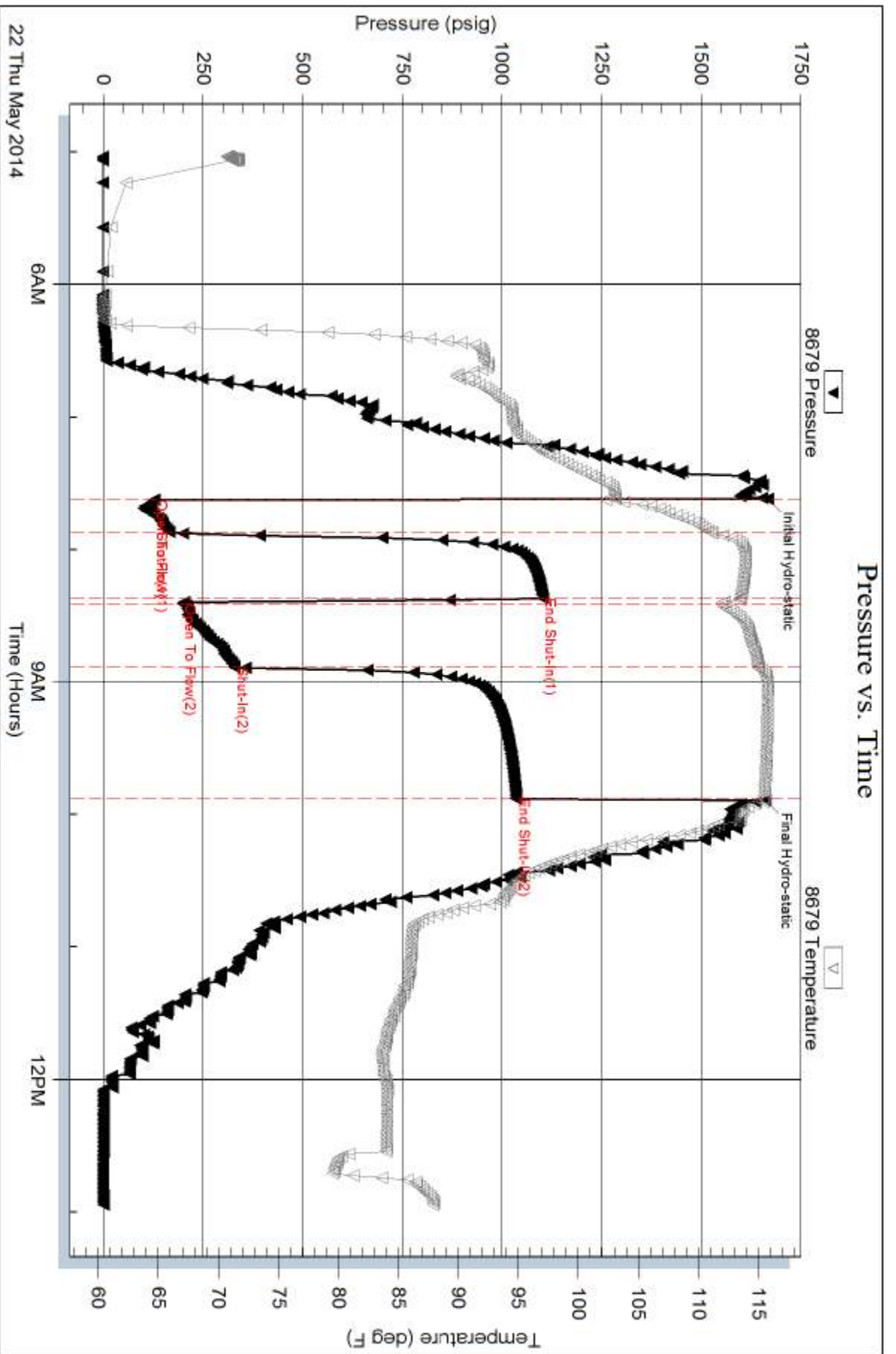
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



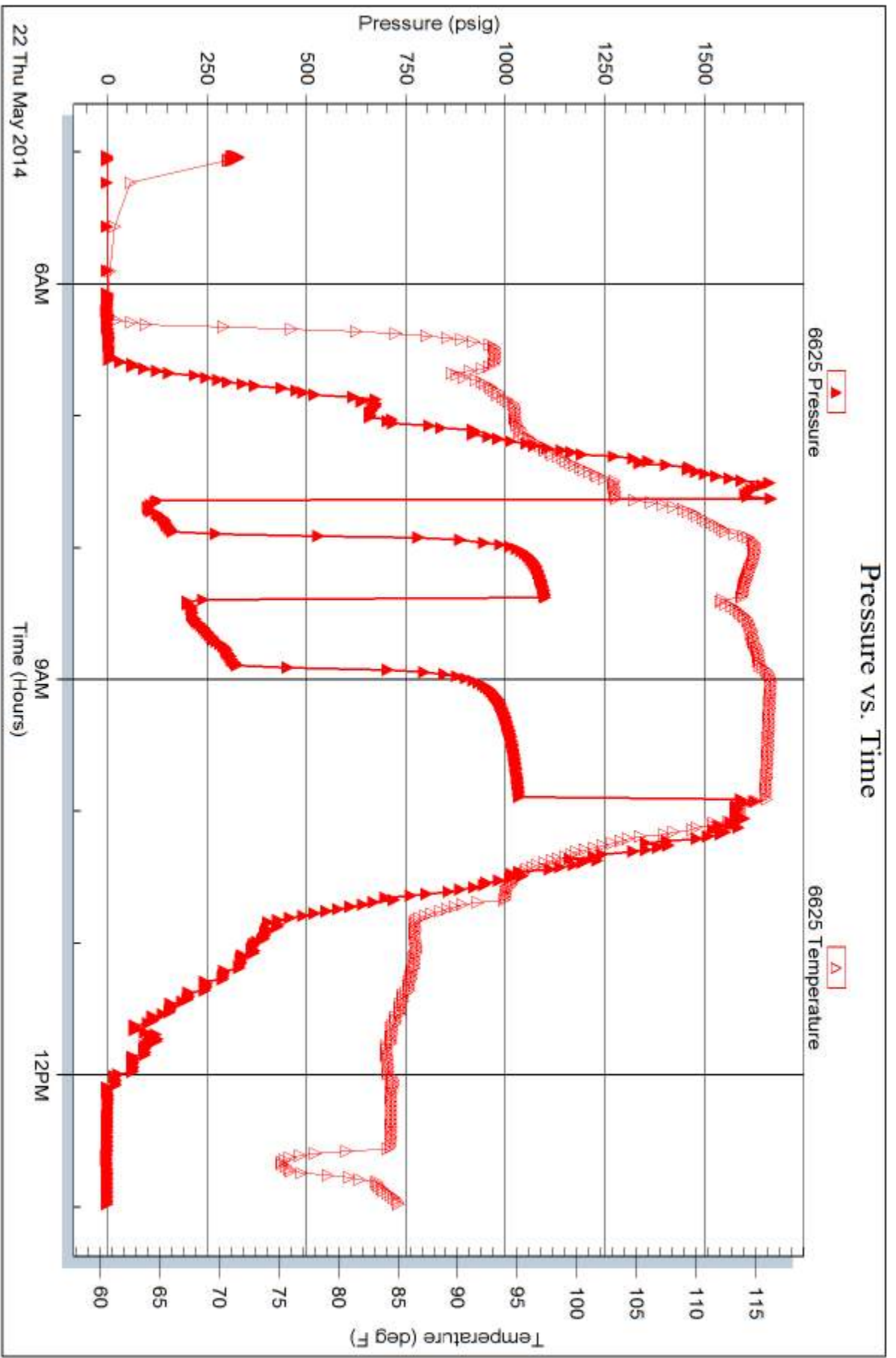
Serial #: 6625

Inside

Dow nrg-Nelson Oil Co, Inc.

Barry Urban #1-17

DST Test Number: 5





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 54210

Well Name & No. BARRY URBAN # 1-17 Test No. 1 Date 5-19-14
 Company DOWNING-NELSON OIL CO. INC. Elevation 1974 KB 1966 GL
 Address P.O. Box 1019, HAYS KS. 67601
 Co. Rep / Geo. MARK DOWNING Rig DISCOVERY DRUG #3
 Location: Sec. 17 Twp. 16S Rge. 17W Co. RUSK State Ks.

Interval Tested 2968 - 2992' Zone Tested TUPEKA
 Anchor Length 24' Drill Pipe Run 2948' Mud Wt. 8.7
 Top Packer Depth 2963' Drill Collars Run 30' Vis S3
 Bottom Packer Depth 2968' Wt. Pipe Run 0 WL 8.0cc
 Total Depth 2992' Chlorides 2500 ppm System LCM 2#
 Blow Description IF: Weak blow. 1/2 - 2 1/4" ISF: No blow.

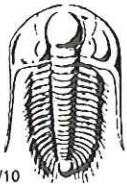
FF: Weak blow. 1/2 - 1 1/2" FSI: No blow.

Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>Gas in pipe</u>				
<u>20</u>	<u>Mud w/o specs.</u>				

Rec Total 20 Fluid BHT 98° Gravity N/A API RW N.C. @ 2 °F Chlorides 2500 ppm

(A) Initial Hydrostatic <u>1399</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>0916</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars	T-Started <u>1014</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint	T-Open <u>1219</u>
(D) Initial Shut-In <u>36</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>1422</u>
(E) Second Initial Flow <u>17</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>1558</u>
(F) Second Final Flow <u>20</u>	<input checked="" type="checkbox"/> Mileage <u>180</u> <u>71.30</u>	Comments
(G) Final Shut-In <u>32</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1375</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Flow <u>30</u>	<input type="checkbox"/> Day Standby	Total <u>1221.30</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1221.30</u>	

Approved By _____ Our Representative Cory Pustay
 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. 55279

Well Name & No. Barry Urban # 1-17 Test No. 2 Date 5-20-14
 Company Downing-Nelson Oil Co. INC. Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays KS, 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #3
 Location: Sec. 17 Twp. 16-S. Rge. 17 W. Co. Rush State KS.

Interval Tested 3209-3275 Zone Tested Toronto - L.K.C. "A"
 Anchor Length 66' Drill Pipe Run 3170' Mud Wt. 9
 Top Packer Depth 3204 Drill Collars Run 32- Vis 49
 Bottom Packer Depth 3209 Wt. Pipe Run --- WL 8.8
 Total Depth 3275 Chlorides 5,000 ppm System LCM 1

Blow Description I.F. - 45 - 1/2" INT. Blow Built to 4 5/8" in 45 min.
I.S.I. - 45 - W.S.B.B. Started @ 9 min. Built to 4" Died in 15 min.
F.F. - 45 - 3/4" INT. Blow Built to 6 1/2" in 45 min.
F.S.I. - 45 - No B.B.

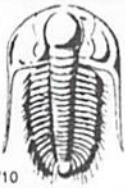
Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>35</u>	Feet of <u>O.C, M.</u>		<u>10</u> %oil		<u>90</u> %mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 35 BHT 108 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic <u>1,573</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>10:25:00</u>
(B) First Initial Flow <u>32</u>	<input type="checkbox"/> Jars _____	T-Started <u>11:05:00</u>
(C) First Final Flow <u>39</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>12:37:00</u>
(D) Initial Shut-In <u>121</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>15:37:00</u>
(E) Second Initial Flow <u>36</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>17:25:00</u>
(F) Second Final Flow <u>43</u>	<input checked="" type="checkbox"/> Mileage <u>50 I.R.T.</u> 71.30	Comments _____
(G) Final Shut-In <u>127</u>	<input type="checkbox"/> Sampler _____	<u>Thank-you</u>
(H) Final Hydrostatic <u>1,472</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>45</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1221.30</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1221.30</u>	

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. 58891

4/10

Well Name & No. Barry Urban #1-17 Test No. 3 Date 5-21-14
 Company Downing-Nelson Oil Co, Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Mark Downing Rig Discovery Rig 3
 Location: Sec. 17 Twp. 16s Rge. 17w Co. Rush State KS

Interval Tested 3292-3317 Zone Tested LKC "D"
 Anchor Length 25' Drill Pipe Run 3265 Mud Wt. 9
 Top Packer Depth 3287 Drill Collars Run 30 Vis 49
 Bottom Packer Depth 3292 Wt. Pipe Run 0 WL 8.8
 Total Depth 3317 Chlorides 5,000 ppm System LCM 1#

Blow Description IT - Built to 1/4"
ISI No Return
FF No Blow
FST No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>3'</u>	<u>M, with oil 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

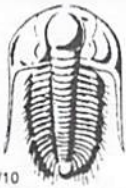
Rec Total 3' BHT 106 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1610 Test 1150 T-On Location 00:08
 (B) First Initial Flow 14 Jars _____ T-Started 00:13
 (C) First Final Flow 16 Safety Joint _____ T-Open 02:37
 (D) Initial Shut-In 24 Circ Sub _____ T-Pulled 04:37
 (E) Second Initial Flow 17 Hourly Standby _____ T-Out 06:04
 (F) Second Final Flow 17 Mileage 46 RT 71.30 Comments _____
 (G) Final Shut-In 21 Sampler _____
 (H) Final Hydrostatic 1561 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 1221.30
 Final Shut-In 30 Accessibility _____ MP/DST Disc't _____
 Sub Total 1221.30

Approved By _____ Our Representative Paul G. [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 58892

4/10

Well Name & No. Barry Urban #1-17 Test No. 4 Date 5-21-14
 Company Downing - Nelson Oil Co. Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Mark Downing Rig Discovery Rig 3
 Location: Sec. 17 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3312 - 3330 Zone Tested LKL "E"
 Anchor Length 18' Drill Pipe Run 3296 Mud Wt. 9
 Top Packer Depth 3307 Drill Collars Run 30 Vis 49
 Bottom Packer Depth 3312 Wt. Pipe Run 0 WL 10.4
 Total Depth 3330 Chlorides 7000 ppm System LCM 1#

Blow Description IF - BOB in 4 mins
ISI - No Return
FF - BOB in 30 secs
FST - No Return

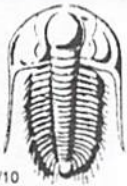
Rec	Feet of	%gas	%oil	%water	%mud
63'	VSGMWC0	5	85	5	5
63'	SMWEG	40% E	40	10	10
18400	1890 GIP	100			

Rec Total 2016 BHT 110 Gravity 32 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1749 Test 1150 T-On Location 11:45
 (B) First Initial Flow 26 Jars _____ T-Started 11:48
 (C) First Final Flow 35 Safety Joint _____ T-Open 13:51
 (D) Initial Shut-In 939 Circ Sub _____ T-Pulled 16:51
 (E) Second Initial Flow 35 Hourly Standby _____ T-Out 18:43
 (F) Second Final Flow 57 Mileage 46 RT 71.30 Comments _____
 (G) Final Shut-In 911 Sampler _____
 (H) Final Hydrostatic 1550 Straddle _____ Ruined Shale Packer _____

Initial Open 30 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 60 Day Standby _____ Total 1221.30
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1221.30

Approved By _____ Our Representative Phillip Grogg Thank You
 Trilobite Testing Inc. shall not be liable for damaged or 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. 58893

4/10

Well Name & No. Barry Urban #1-17 Test No. 5 Date 5-22-14
 Company Downing-Nelson Oil Co, Inc Elevation 1974 KB 1966 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo. Mark Downing Rig Discovery Rig 3
 Location: Sec. 17 Twp. 16s Rge. 17w Co. Rush State KS

Interval Tested 3376 - 3442 Zone Tested LKL "H-J"
 Anchor Length 66' Drill Pipe Run 3359 Mud Wt. 9
 Top Packer Depth 3371 Drill Collars Run 30 Vis 49
 Bottom Packer Depth 3376 Wt. Pipe Run 0 WL 10.4
 Total Depth 3442 Chlorides 7,000 ppm System LCM 1#

Blow Description IF BOB in 1 min.
ISF BOB in 5 min
FF - BOB instantly
FSF BOB in 4 min

Rec	Feet of	%gas	%oil	%water	%mud
<u>63'</u>	<u>VSMOCC</u>	<u>65</u>	<u>40</u>	<u>5</u>	<u>5</u>
<u>441'</u>	<u>VSWMGCO</u>	<u>25</u>	<u>50</u>	<u>5</u>	<u>20</u>
<u>189'</u>	<u>VSMGCO</u>	<u>10</u>	<u>85</u>	<u>5</u>	<u>5</u>
<u>126'</u>	<u>SMGCO</u>	<u>30</u>	<u>60</u>	<u>10</u>	<u>10</u>
<u>31</u>	<u>GOCM</u>	<u>15</u>	<u>15</u>	<u>90</u>	<u>90</u>

Rec Total 850 BHT 115 Gravity 37 API RW 100% gas °F Chlorides — ppm

(A) Initial Hydrostatic 1666 Test 1150 T-On Location 05:00
 (B) First Initial Flow 127 Jars _____ T-Started 05:02
 (C) First Final Flow 165 Safety Joint _____ T-Open 02:38
 (D) Initial Shut-In 1103 Circ Sub _____ T-Pulled 09:53
 (E) Second Initial Flow 198 Hourly Standby _____ T-Out 12:59
 (F) Second Final Flow 328 Mileage 46 RT x 2 Comments Loaded tools
 (G) Final Shut-In 1036 Sampler 142.60 at 33:45, 5-22-14
 (H) Final Hydrostatic 1661 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 15 Extra Recorder _____ Sub Total 0
 Initial Shut-In 30 Day Standby _____ Total 1292.60
 Final Flow 30 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1292.60

Approved By _____ Our Representative Phil Rose Thank You!

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