



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Stalnaker "B" #1-14

14-14s-21w Trego,KS

Start Date: 2013.02.20 @ 10:10:00

End Date: 2013.02.20 @ 17:47:00

Job Ticket #: 52027 DST #: 1

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

Printed: 2013.03.05 @ 10:40:47



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

ATTN: Ron Nelson

Job Ticket: 52027

DST#: 1

Test Start: 2013.02.20 @ 10:10:00

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:59:30
 Time Test Ended: 17:47:00
 Interval: **3594.00 ft (KB) To 3650.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2224.00 ft (KB)
 2217.00 ft (CF)
 KB to GR/CF: 7.00 ft

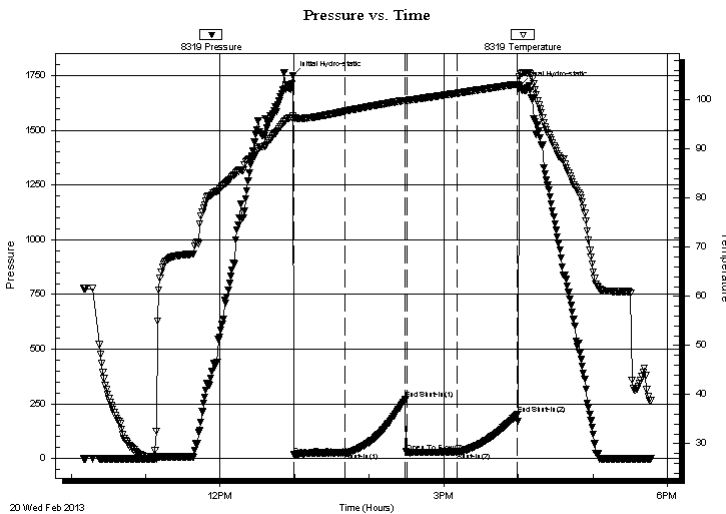
Serial #: 8319

Inside

Press @ Run Depth: 30.57 psig @ 3595.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.20 End Date: 2013.02.20 Last Calib.: 2013.02.20
 Start Time: 10:10:05 End Time: 17:46:59 Time On Btm: 2013.02.20 @ 12:58:30
 Time Off Btm: 2013.02.20 @ 16:01:30

TEST COMMENT: IF-5" blow
 ISL-w eak surface blow
 FF-5" blow
 FSL-w eak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.60	96.69	Initial Hydro-static
1	16.48	96.35	Open To Flow (1)
42	27.04	97.69	Shut-In(1)
91	269.16	99.92	End Shut-In(1)
92	27.31	99.91	Open To Flow (2)
132	30.57	101.36	Shut-In(2)
181	200.58	103.20	End Shut-In(2)
183	1703.27	105.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 45%O 55%M	0.29

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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52027

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.02.20 @ 10:10:00

Tool Information

Drill Pipe:	Length: 3550.00 ft	Diameter: 3.80 inches	Volume: 49.80 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	75000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3594.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	56.00 ft				
Tool Length:	77.00 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			3574.00	
Shut In Tool	5.00			3579.00	
Hydraulic tool	5.00			3584.00	
Packer	5.00			3589.00	21.00 Bottom Of Top Packer
Packer	5.00			3594.00	
Stubb	1.00			3595.00	
Recorder	0.00	8319	Inside	3595.00	
Recorder	0.00	8166	Outside	3595.00	
Perforations	3.00			3598.00	
Change Over Sub	1.00			3599.00	
Drill Pipe	32.00			3631.00	
Change Over Sub	1.00			3632.00	
Perforations	15.00			3647.00	
Bullnose	3.00			3650.00	56.00 Bottom Packers & Anchor

Total Tool Length: 77.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52027

DST#: 1

ATTN: Ron Nelson

Test Start: 2013.02.20 @ 10:10:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 45%O 55%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

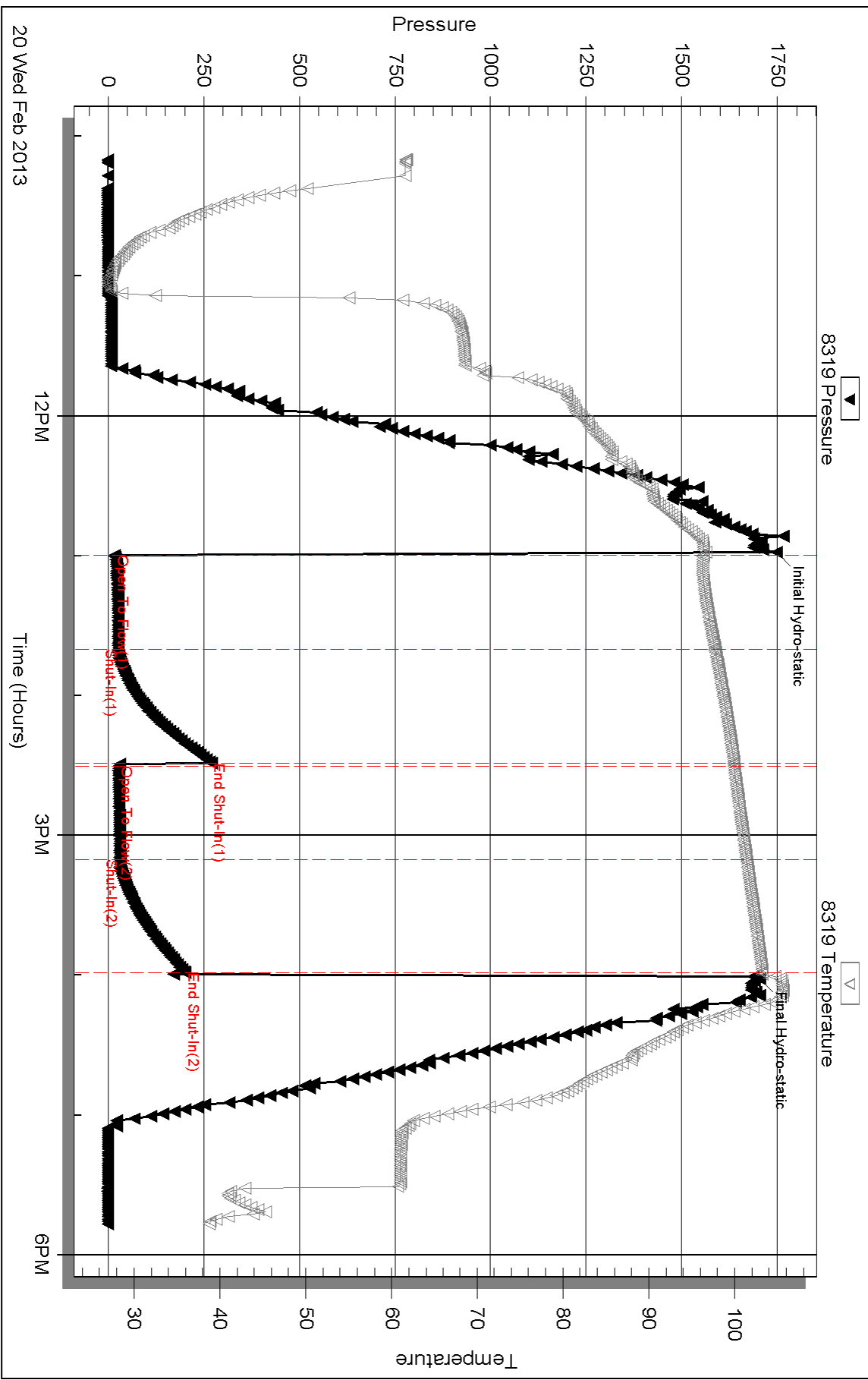
Inside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 1

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52027

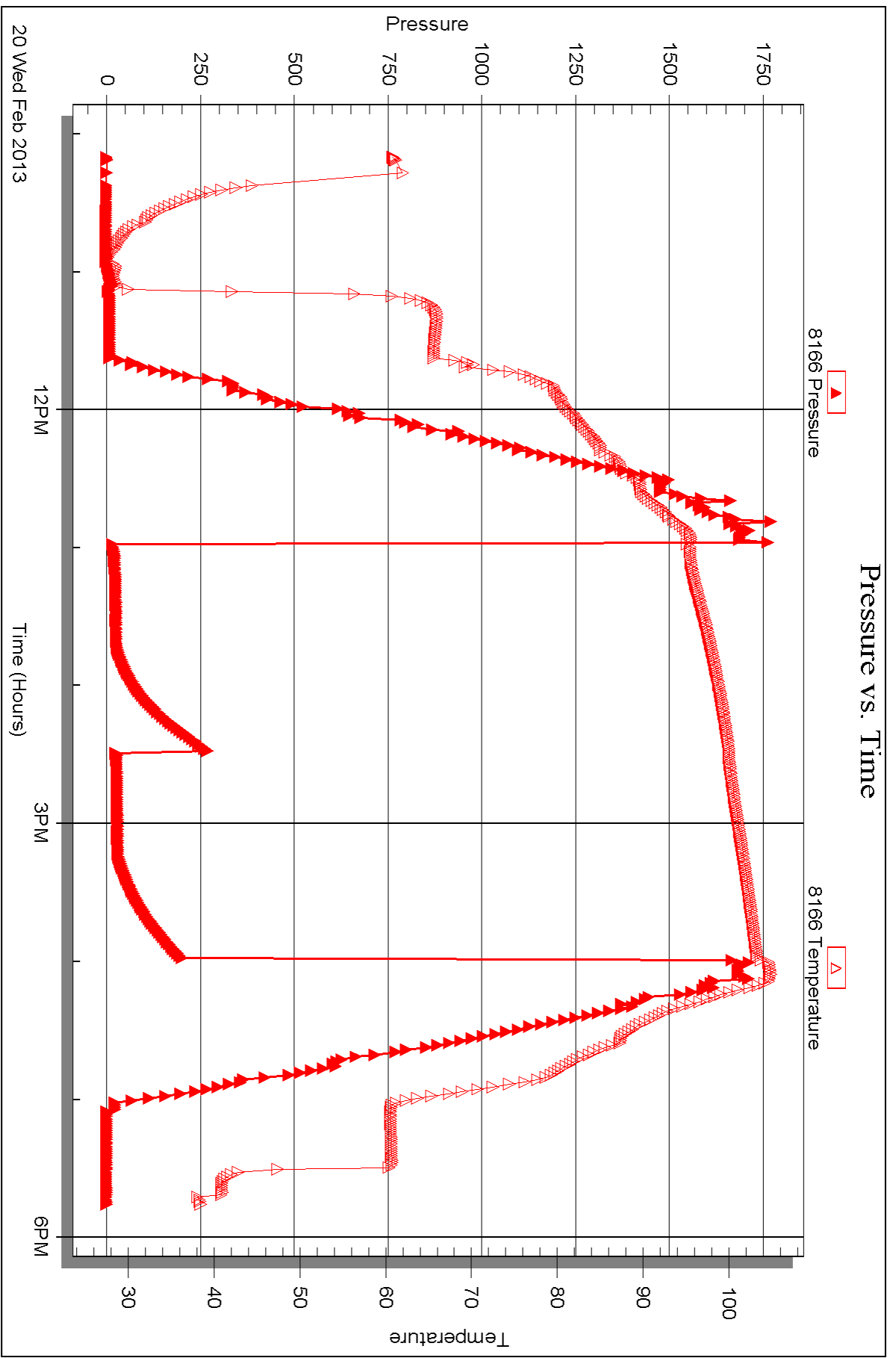
Printed: 2013.03.05 @ 10:40:50

Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Stalnaker "B" #1-14

14-14s-21w Trego,KS

Start Date: 2013.02.24 @ 04:30:00

End Date: 2013.02.24 @ 10:20:30

Job Ticket #: 52028 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.05 @ 10:40:06



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

ATTN: Ron Nelson

Job Ticket: 52028

DST#: 2

Test Start: 2013.02.24 @ 04:30:00

GENERAL INFORMATION:

Formation: **KC "I,J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:20:30
 Time Test Ended: 10:20:30
 Interval: **3724.00 ft (KB) To 3770.00 ft (KB) (TVD)**
 Total Depth: 3770.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2224.00 ft (KB)
 2217.00 ft (CF)
 KB to GR/CF: 7.00 ft

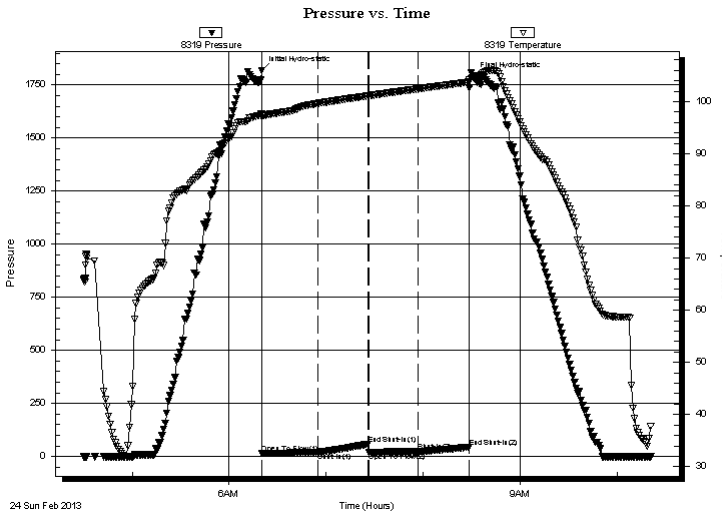
Serial #: 8319

Inside

Press @ Run Depth: 22.33 psig @ 3725.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.24 End Date: 2013.02.24 Last Calib.: 2013.02.24
 Start Time: 04:30:05 End Time: 10:20:29 Time On Btm: 2013.02.24 @ 06:20:00
 Time Off Btm: 2013.02.24 @ 08:30:30

TEST COMMENT: IF-1 1/4" blow
 IS- No blow
 FF-1" blow
 FSI-Weak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1819.09	97.64	Initial Hydro-static
1	14.35	97.21	Open To Flow (1)
35	20.44	99.64	Shut-In(1)
66	58.27	101.11	End Shut-In(1)
67	18.72	101.17	Open To Flow (2)
97	22.33	102.46	Shut-In(2)
128	44.29	103.72	End Shut-In(2)
131	1792.02	104.57	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	SOCM 10%O 90%M	0.15

* 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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52028

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.02.24 @ 04:30:00

Tool Information

Drill Pipe:	Length: 3703.00 ft	Diameter: 3.80 inches	Volume: 51.94 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3724.00 ft			Final	50000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	46.00 ft				
Tool Length:	67.00 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			3704.00	
Shut In Tool	5.00			3709.00	
Hydraulic tool	5.00			3714.00	
Packer	5.00			3719.00	21.00 Bottom Of Top Packer
Packer	5.00			3724.00	
Stubb	1.00			3725.00	
Recorder	0.00	8319	Inside	3725.00	
Recorder	0.00	8166	Outside	3725.00	
Perforations	3.00			3728.00	
Change Over Sub	1.00			3729.00	
Drill Pipe	32.00			3761.00	
Change Over Sub	1.00			3762.00	
Perforations	5.00			3767.00	
Bullnose	3.00			3770.00	46.00 Bottom Packers & Anchor

Total Tool Length: 67.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52028

DST#: 2

ATTN: Ron Nelson

Test Start: 2013.02.24 @ 04:30:00

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: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.96 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	SOCM 10%O 90%M	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

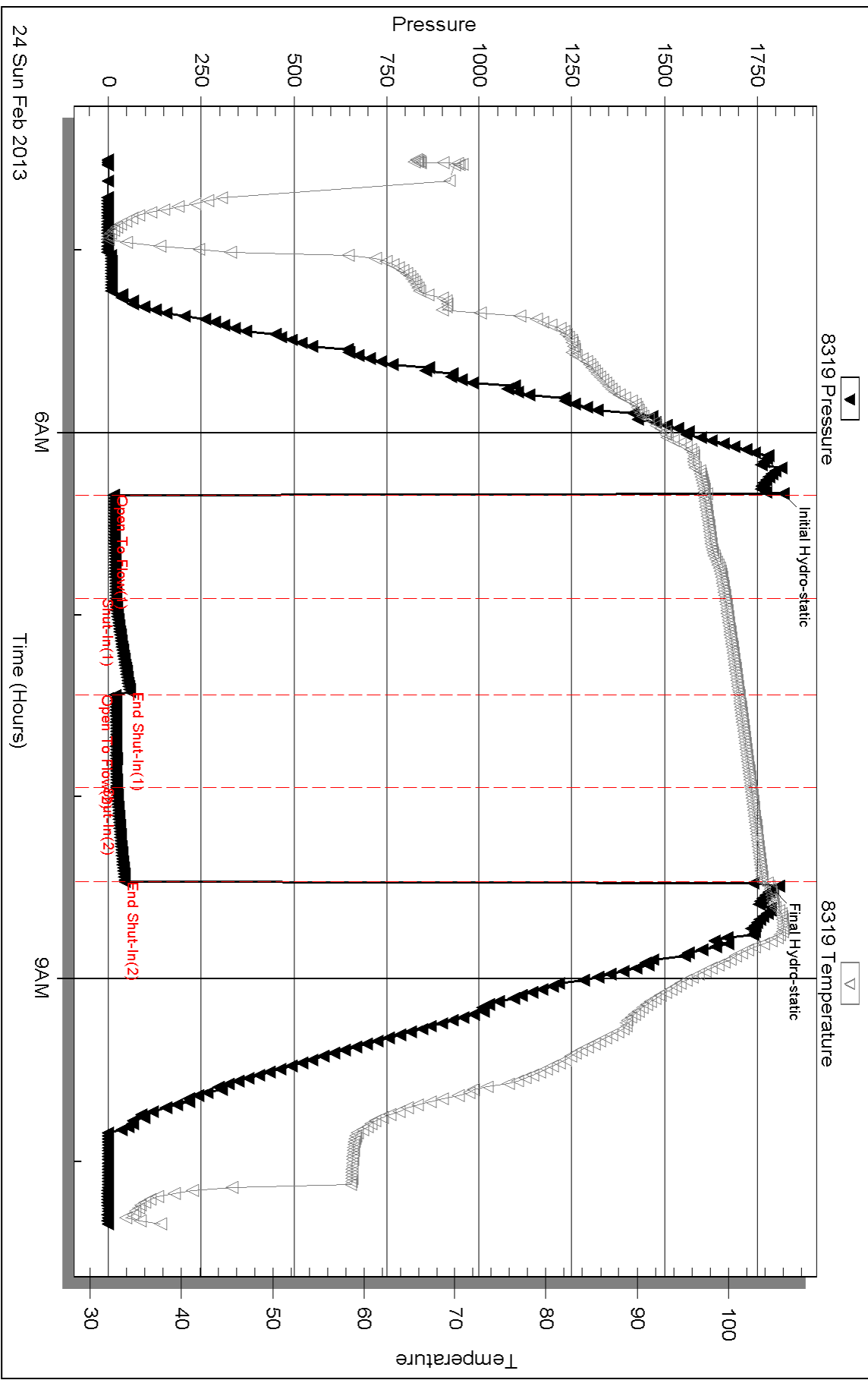
Inside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52028

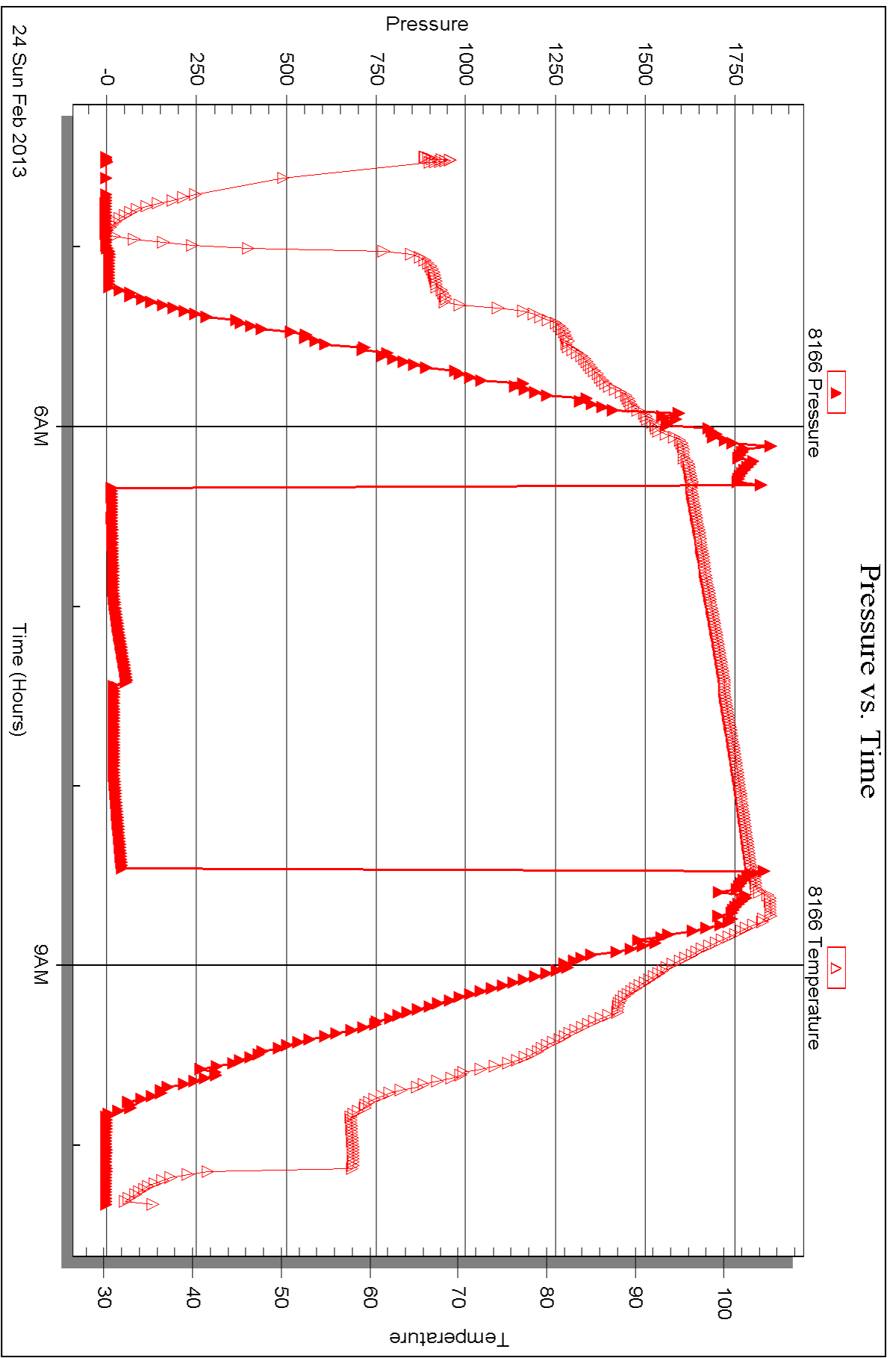
Printed: 2013.03.05 @ 10:40:08

Serial #: 8166

Outside Dow n/mg-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Stalnaker "B" #1-14

14-14s-21w Trego,KS

Start Date: 2013.02.26 @ 00:20:00

End Date: 2013.02.26 @ 07:53:00

Job Ticket #: 52029 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2013.03.05 @ 10:39:27



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

ATTN: Ron Nelson

Job Ticket: 52029

DST#: 3

Test Start: 2013.02.26 @ 00:20:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:30

Time Test Ended: 07:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 3903.00 ft (KB) To 3920.00 ft (KB) (TVD)

Reference Elevations: 2224.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2217.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 8166 Outside

Press @ RunDepth: 82.57 psig @ 3904.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.02.26

End Date: 2013.02.26

Last Calib.: 2013.02.26

Start Time: 00:20:05

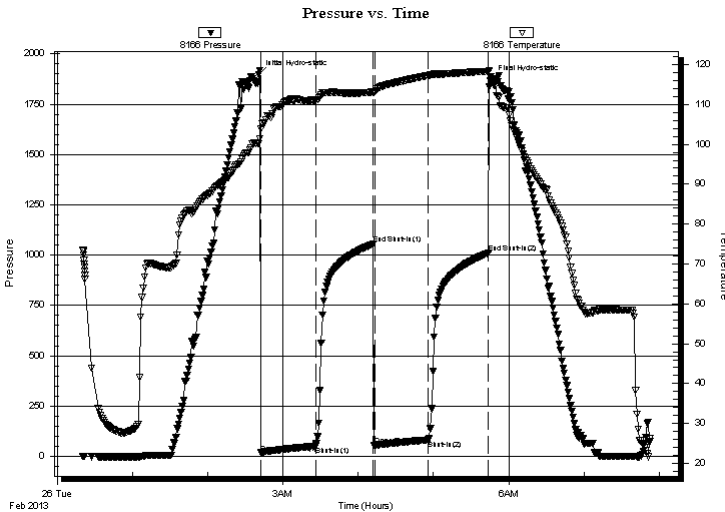
End Time: 07:52:59

Time On Btm: 2013.02.26 @ 02:40:30

Time Off Btm: 2013.02.26 @ 05:46:00

TEST COMMENT: IF-BOB in 34 min
ISI-w eak surface blow
FF-BOB in 31 min
FSI-w eak surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1898.62	100.16	Initial Hydro-static
2	18.38	103.85	Open To Flow (1)
46	52.16	111.11	Shut-In(1)
91	1053.91	113.08	End Shut-In(1)
93	54.69	113.16	Open To Flow (2)
136	82.57	117.27	Shut-In(2)
184	1010.65	118.32	End Shut-In(2)
186	1871.39	115.74	Final Hydro-static

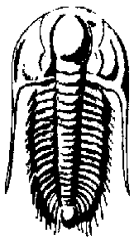
Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGMCO 10%G 20%M 70%O	0.99
90.00	SGO 10%G 90%O	1.26
0.00	120ft 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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52029

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 00:20:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:30

Time Test Ended: 07:53:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: **3903.00 ft (KB) To 3920.00 ft (KB) (TVD)**

Total Depth: 3650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2224.00 ft (KB)

2217.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: **8319**

Inside

Press @RunDepth: psig @ 3904.00 ft (KB)

Start Date: 2013.02.26

End Date:

2013.02.26

Capacity: 8000.00 psig

Last Calib.:

2013.02.26

Start Time: 00:20:05

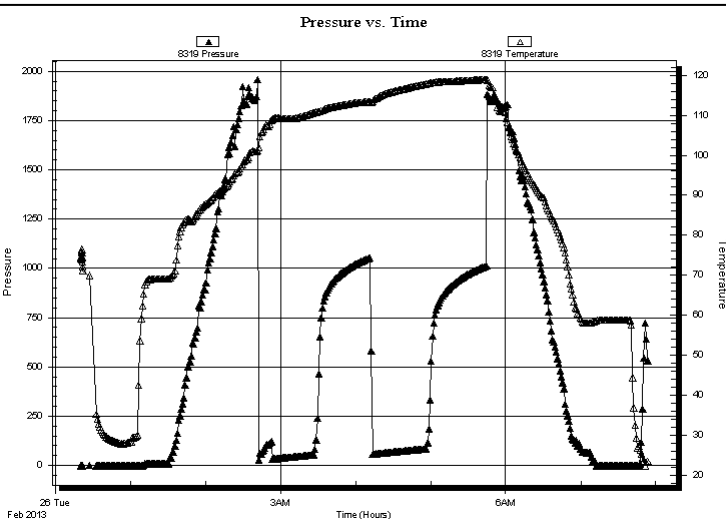
End Time:

07:53:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-BOB in 34 min
ISI-w eak surface blow
FF-BOB in 31 min
FSI-w eak surface blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	SGMCO 10%G 20%M 70%O	0.99
90.00	SGO 10%G 90%O	1.26
0.00	120ft GIP	0.00

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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52029

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 00:20:00

Tool Information

Drill Pipe:	Length: 3862.00 ft	Diameter: 3.80 inches	Volume: 54.17 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	55000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
				String Weight: Initial	50000.00 lb
Drill Pipe Above KB:	10.00 ft			Final	51000.00 lb
Depth to Top Packer:	3903.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	17.00 ft				
Tool Length:	38.00 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			3883.00	
Shut In Tool	5.00			3888.00	
Hydraulic tool	5.00			3893.00	
Packer	5.00			3898.00	21.00 Bottom Of Top Packer
Packer	5.00			3903.00	
Stubb	1.00			3904.00	
Recorder	0.00	8319	Inside	3904.00	
Recorder	0.00	8166	Outside	3904.00	
Perforations	13.00			3917.00	
Bullnose	3.00			3920.00	17.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



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DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52029

DST#: 3

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 00:20:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
90.00	SGMCO 10%G 20%M 70%O	0.989
90.00	SGO 10%G 90%O	1.262
0.00	120ft GIP	0.000

Total Length: 180.00 ft Total Volume: 2.251 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

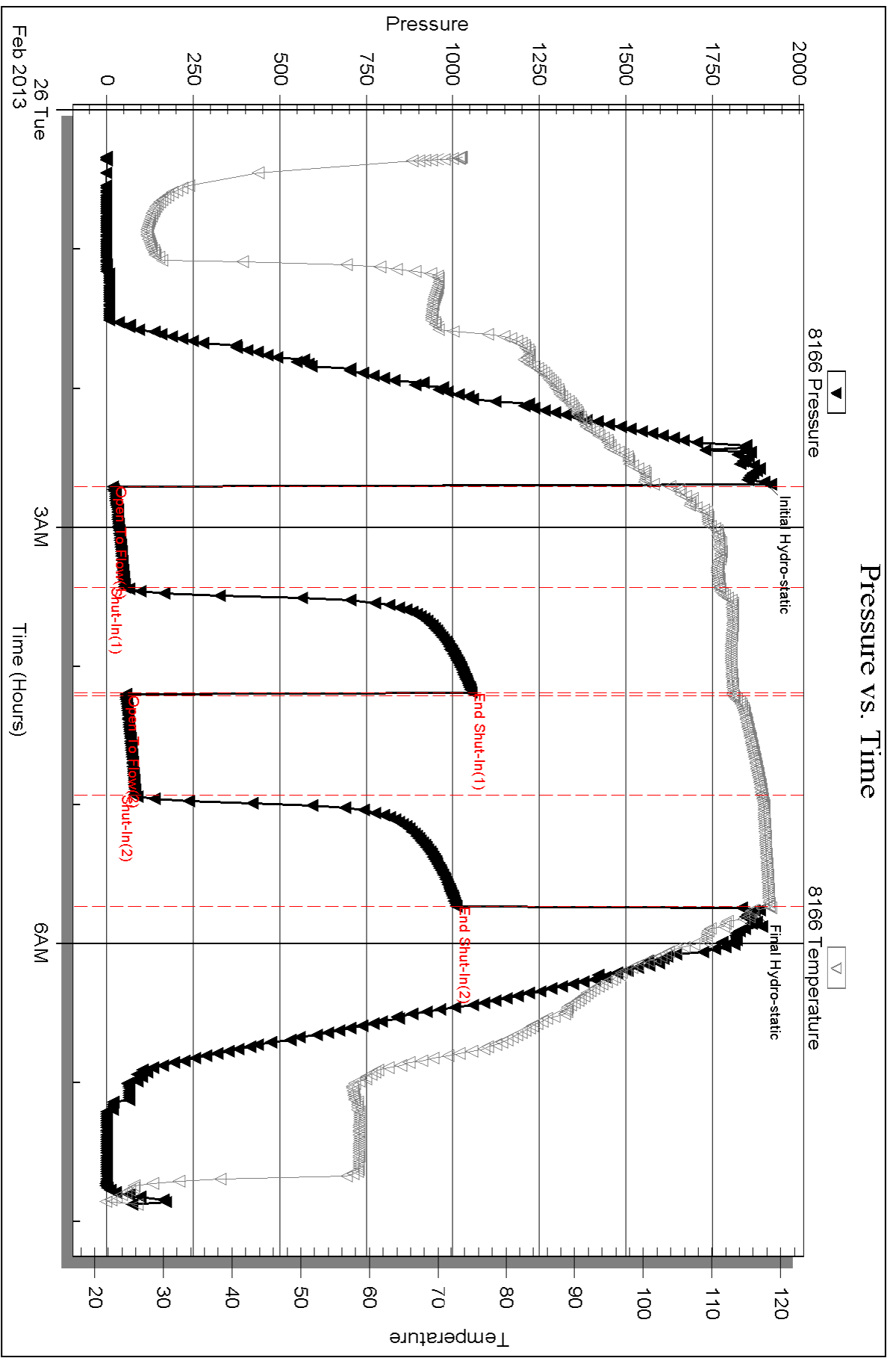
Recovery Comments:

Serial #: 8166

Outside Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 52029

Printed: 2013.03.05 @ 10:39:30

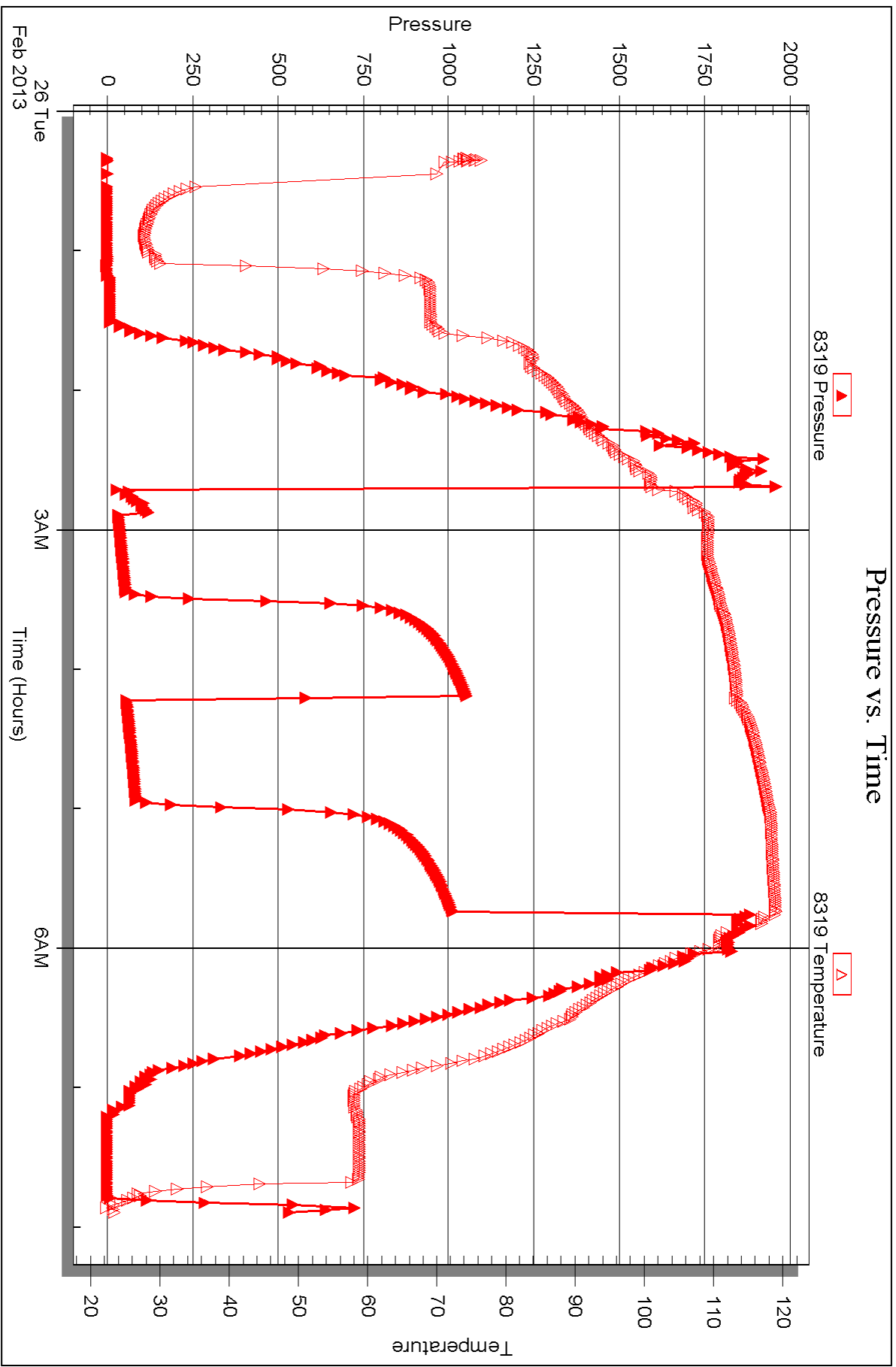
Serial #: 8319

Inside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 52029

Printed: 2013.03.05 @ 10:39:31



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Ron Nelson

Stalnaker "B" #1-14

14-14s-21w Trego,KS

Start Date: 2013.02.26 @ 17:20:00

End Date: 2013.02.27 @ 00:18:00

Job Ticket #: 52030 DST #: 4

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

Printed: 2013.03.05 @ 10:37:32

Downing-Nelson Oil Co Inc. 14-14s-21w Trego,KS Stalnaker "B" #1-14 DST # 4 sd 2013.02.26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

ATTN: Ron Nelson

Job Ticket: 52030

DST#: 4

Test Start: 2013.02.26 @ 17:20:00

GENERAL INFORMATION:

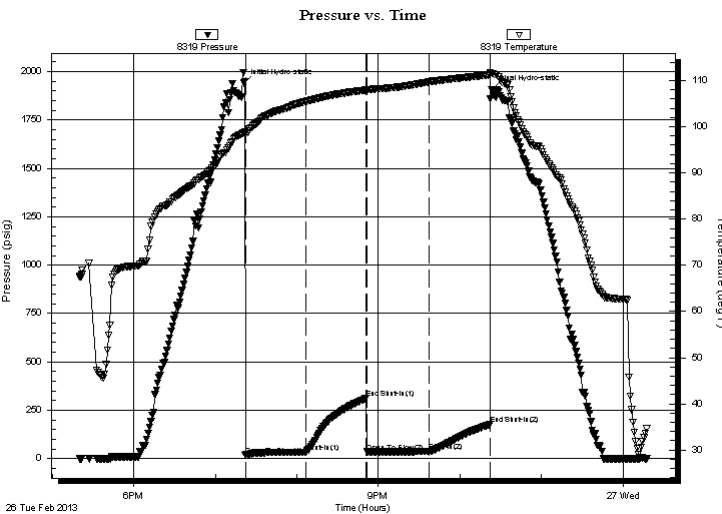
Formation: **sd**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:22:00
 Time Test Ended: 00:18:00
 Interval: **3940.00 ft (KB) To 3983.00 ft (KB) (TVD)**
 Total Depth: 3650.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Reference Elevations: 2224.00 ft (KB)
 2217.00 ft (CF)
 KB to GR/CF: 7.00 ft

Serial #: 8319

Inside

Press @ Run Depth: 35.21 psig @ 3941.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.02.26 End Date: 2013.02.27 Last Calib.: 2013.02.27
 Start Time: 17:20:05 End Time: 00:17:59 Time On Btm: 2013.02.26 @ 19:21:00
 Time Off Btm: 2013.02.26 @ 22:23:30

TEST COMMENT: IF-3 3/4" blow
 IS-No blow
 FF-3/4" blow
 FSI-No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1941.04	98.75	Initial Hydro-static
1	17.68	98.46	Open To Flow (1)
46	33.39	105.48	Shut-In(1)
90	310.79	107.95	End Shut-In(1)
91	34.08	107.85	Open To Flow (2)
137	35.21	109.73	Shut-In(2)
181	175.70	111.25	End Shut-In(2)
183	1907.92	111.52	Final Hydro-static

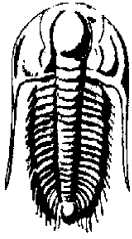
Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSWCM 5%W 95%M	0.29

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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52030 **DST#: 4**

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 17:20:00

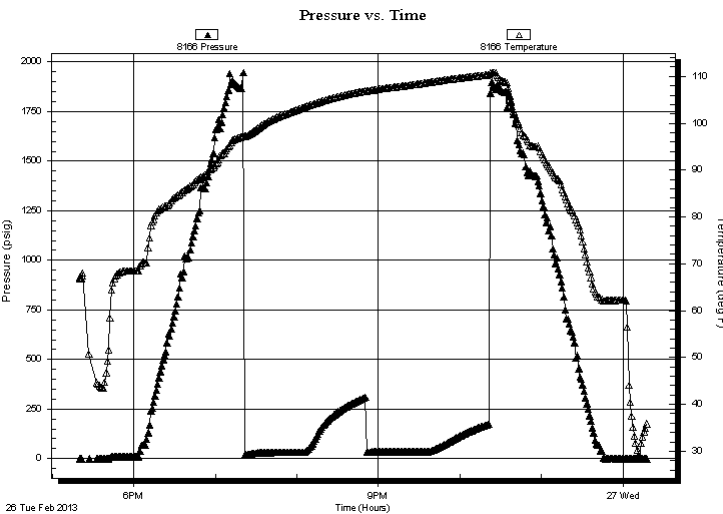
GENERAL INFORMATION:

Formation: **sd**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:22:00
 Time Test Ended: 00:18:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brett Dickinson
 Unit No: 59
 Interval: **3940.00 ft (KB) To 3983.00 ft (KB) (TVD)**
 Reference Elevations: 2224.00 ft (KB)
 Total Depth: 3650.00 ft (KB) (TVD)
 2217.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 7.00 ft

Serial #: 8166 Outside

Press @ RunDepth: psig @ 3941.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.02.26 End Date: 2013.02.27	Last Calib.: 2013.02.27
Start Time: 17:20:05 End Time: 00:17:29	Time On Btm:
	Time Off Btm:

TEST COMMENT: IF-3 3/4" blow
 IS-No blow
 FF-3/4" blow
 FS-No blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	VSWCM 5%W 95%M	0.29

* 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.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52030

DST#: 4

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 17:20:00

Tool Information

Drill Pipe:	Length: 3897.00 ft	Diameter: 3.80 inches	Volume: 54.66 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.70 inches	Volume: - 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:	51000.00 lb
			<u>Total Volume:</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	51000.00 lb
Depth to Top Packer:	3940.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	43.00 ft				
Tool Length:	64.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3920.00	
Shut In Tool	5.00			3925.00	
Hydraulic tool	5.00			3930.00	
Packer	5.00			3935.00	21.00 Bottom Of Top Packer
Packer	5.00			3940.00	
Stubb	1.00			3941.00	
Recorder	0.00	8319	Inside	3941.00	
Recorder	0.00	8166	Outside	3941.00	
Perforations	3.00			3944.00	
Change Over Sub	1.00			3945.00	
Drill Pipe	32.00			3977.00	
Change Over Sub	1.00			3978.00	
Perforations	2.00			3980.00	
Bullnose	3.00			3983.00	43.00 Bottom Packers & Anchor

Total Tool Length: 64.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co Inc.

14-14s-21w Trego,KS

PO Box 1019
Hays KS 67601

Stalnaker "B" #1-14

Job Ticket: 52030

DST#: 4

ATTN: Ron Nelson

Test Start: 2013.02.26 @ 17:20:00

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
40.00	VSWCM 5%W 95%M	0.288

Total Length: 40.00 ft Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8319

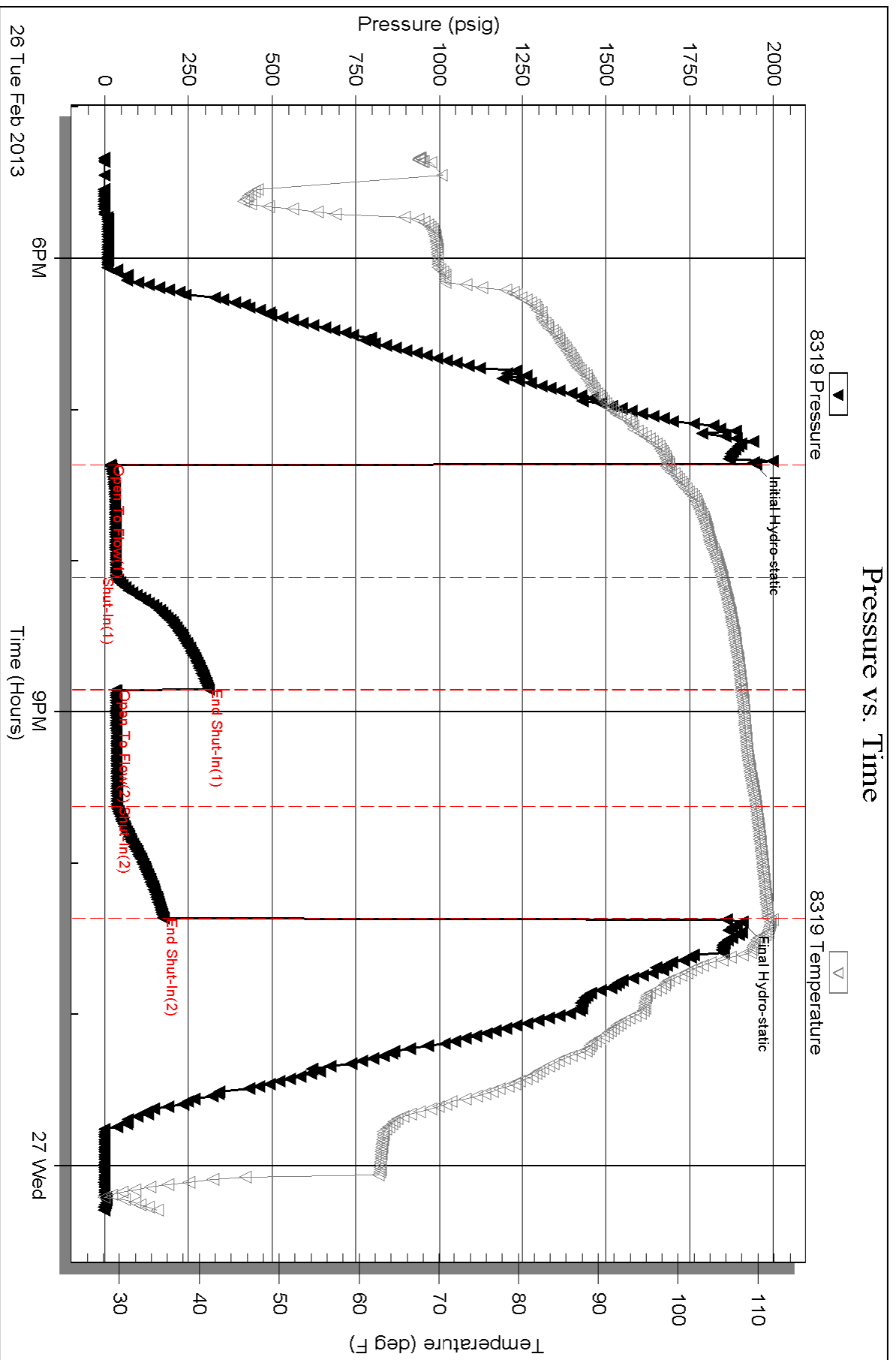
Inside

Dow nging-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 4

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 52030

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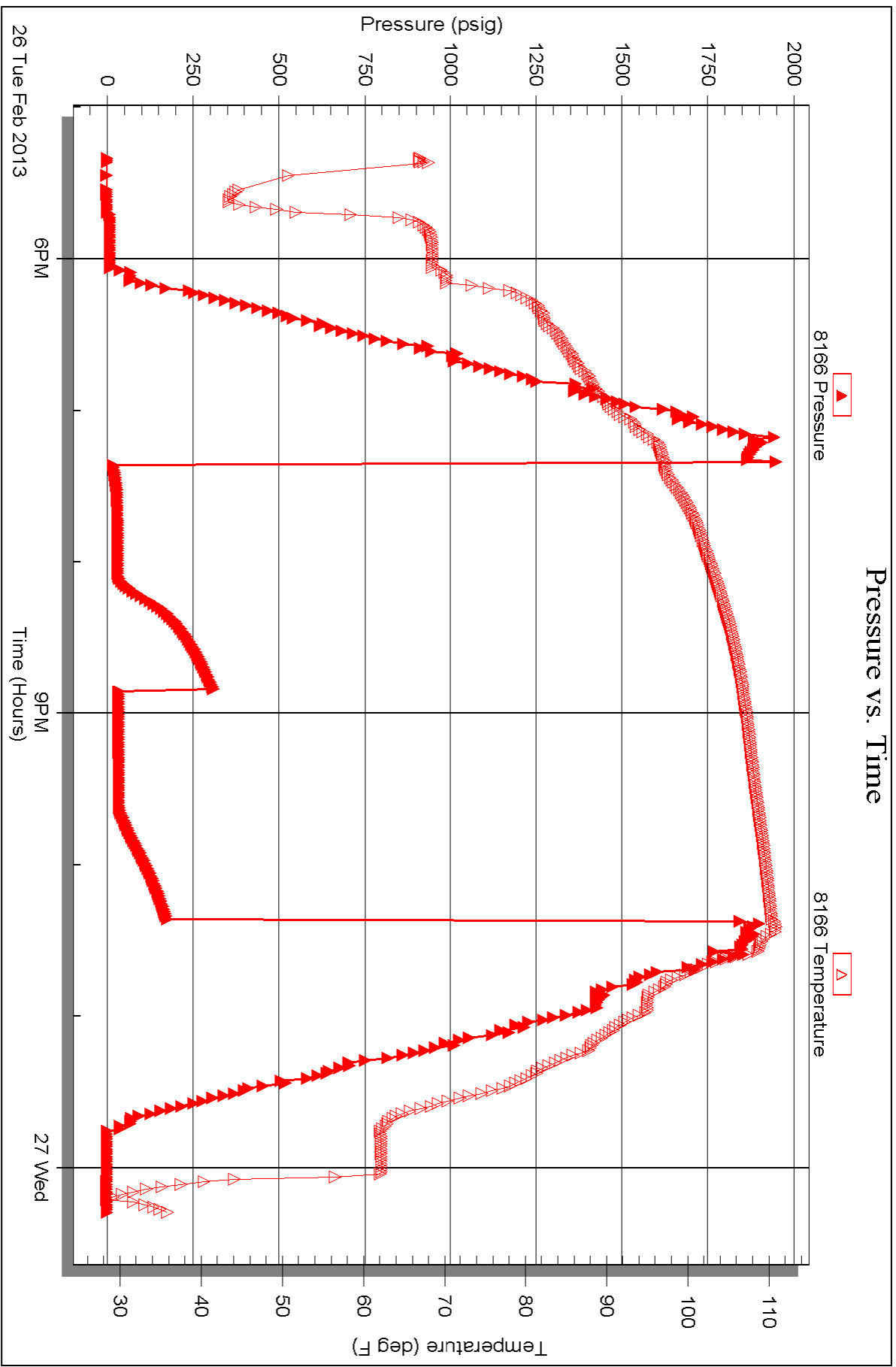
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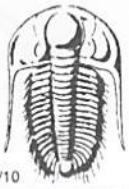
Outside

Dow nting-Nelson Oil Co Inc.

Stalnaker "B" #1-14

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52027

Well Name & No. Stainater "B" 1-14 Test No. 1 Date 2/20/13
 Company Downing-Nelson Oil Co Inc Elevation 2224 KB 2217 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3594-3650 Zone Tested KC
 Anchor Length 56 Drill Pipe Run 3550 Mud Wt. 6.7
 Top Packer Depth 3589 Drill Collars Run 30 Vis 47
 Bottom Packer Depth 3594 Wt. Pipe Run _____ WL 8.6
 Total Depth 3650 Chlorides 2,000 ppm System LCM 27

Blow Description FF - 5 in blow
ISF - weak surface blow
FF - 5 in blow
FSI - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>OCM</u>	<u>45</u>		<u>55</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

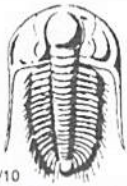
Rec Total 40 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1,749 Test 1150 T-On Location 9:35
 (B) First Initial Flow 16 Jars _____ T-Started 10:10
 (C) First Final Flow 27 Safety Joint _____ T-Open 12:55
 (D) Initial Shut-In 269 Circ Sub _____ T-Pulled 15:55
 (E) Second Initial Flow 27 Hourly Standby _____ T-Out 17:45
 (F) Second Final Flow 31 Mileage 59 RT 91.45 Comments _____
 (G) Final Shut-In 201 Sampler _____
 (H) Final Hydrostatic 1,703 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____

Initial Open 45 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____ Sub Total 0
 Final Flow 45 Day Standby _____ Total 1241.45
 Final Shut-In 45 Accessibility _____ MP/DST Disc't _____
 Sub Total 1241.45

Approved By _____ Our Representative Butt

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. 52028

Well Name & No. Stina Ker "B" 1-14 Test No. 2 Date 2/24/13
 Company Downing-Nelson Oil Co Inc. Elevation 2224 KB 2217 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #3
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

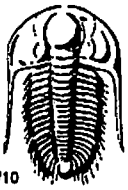
Interval Tested 3724 - 3770 Zone Tested KC "F, J"
 Anchor Length 46 Drill Pipe Run 8703 Mud Wt. _____
 Top Packer Depth 3719 Drill Collars Run 30 Vis _____
 Bottom Packer Depth 3724 Wt. Pipe Run — WL _____
 Total Depth 3770 Chlorides _____ ppm System LCM _____
 Blow Description FF - 1 1/4 in blow
FSI - No blow
FF - 1 in blow
FSI - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>SOCM</u>	<u>10</u>		<u>90</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 30 BHT 104 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,819</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>4:05</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars _____	T-Started <u>4:30</u>
(C) First Final Flow <u>20</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>6:20</u>
(D) Initial Shut-In <u>58</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>8:20</u>
(E) Second Initial Flow <u>19</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>10:20</u>
(F) Second Final Flow <u>22</u>	<input checked="" type="checkbox"/> Mileage <u>59.7</u> 91.45	Comments _____
(G) Final Shut-In <u>44</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,792</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1241.45</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc'tr _____
	Sub Total <u>1241.45</u>	

Approved By _____ Our Representative [Signature]
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52029

Well Name & No. Stoemaker "B" #1-14 Test No. 3 Date 2/26/13
 Company Downing - Nelson Oil Co Inc. Elevation 2224 KB 2217 GL
 Address PO Box 1219 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery "3"
 Location: Sec. 14 Twp. 14 Rge. 21 Co. 71000 State KS

Interval Tested 3903 - 3920 Zone Tested Mormon
 Anchor Length 17 Drill Pipe Run _____ Mud Wt. 9.0
 Top Packer Depth 3895 Drill Collars Run 30 Vis 6.3
 Bottom Packer Depth 3903 Wt. Pipe Run _____ WL 9.0
 Total Depth 3920 Chlorides 2500 ppm System LCM 11.5
 Blow Description SI - BOB in 34 min
ISI - weak surface blow
FF - BOB in 31 min
FST - weak surface blow

Rec	Feet of	%gas	%oil	%water	%mud
90	560	10	90		
90	5560	10	70		20
	12087 62P				

Rec Total 180 BHT _____ Gravity _____ API RW _____ @ _____ ° F. Chlorides _____ ppm

(A) Initial Hydrostatic 1,899 Test 1150 T-On Location 00:02
 (B) First Initial Flow 18 Jars _____ T-Started 00:20
 (C) First Final Flow 52 Safety Joint _____ T-Open 2:40
 (D) Initial Shut-In 1,054 Circ Sub _____ T-Pulled 3:40
 (E) Second Initial Flow 55 Hourly Standby _____ T-Out 7:56
 (F) Second Final Flow 83 Mileage 39.7 91.45 Comments _____
 (G) Final Shut-In 1,011 Sampler _____
 (H) Final Hydrostatic 1,871 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 45 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1241.45
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1241.45

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. 52030

Well Name & No. Stainaker "B" #1-14 Test No. 4 Date 2/26/13
 Company Downing-Nelson Oil Co Inc. Elevation 2224 KB 2217 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig p. discovery #13
 Location: Sec. 14 Twp. 14 Rge. 21 Co. Trego State KS

Interval Tested 3940 - 3983 Zone Tested sd
 Anchor Length 43 Drill Pipe Run 3897 Mud Wt. 9.0
 Top Packer Depth 3935 Drill Collars Run 30 Vis 46
 Bottom Packer Depth 3940 Wt. Pipe Run — WL 8.8
 Total Depth 3983 Chlorides 8,000 ppm System LCM 1
 Blow Description IF - 3 3/4 in blow
FSI - No blow
FF - 3/4 in blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>40</u>	<u>vswcm</u>			<u>5</u>	<u>95</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 40 BHT 111 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1,941</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>16:50</u>
(B) First Initial Flow <u>18</u>	<input type="checkbox"/> Jars _____	T-Started <u>17:20</u>
(C) First Final Flow <u>33</u>	<input type="checkbox"/> Safety Joint _____	T-Open <u>19:20</u>
(D) Initial Shut-In <u>311</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>22:20</u>
(E) Second Initial Flow <u>34</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>00:17</u>
(F) Second Final Flow <u>35</u>	<input checked="" type="checkbox"/> Mileage <u>59.7 x 2</u> 182.90	Comments _____
(G) Final Shut-In <u>176</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1,908</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>1332.90</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1332.90</u>	

Approved By _____ Our Representative But Dini

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