



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Al Downing

25-14s-19w Ellis,KS

Gottschalk Gerstner Unit #1-25

Start Date: 2014.01.15 @ 22:22:20

End Date: 2014.01.16 @ 04:23:40

Job Ticket #: 56039 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.23 @ 09:50:08



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56039

DST#: 1

ATTN: Al Dow ning

Test Start: 2014.01.15 @ 22:22:20

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:30

Time Test Ended: 04:23:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3455.00 ft (KB) To 3478.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3478.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 17.58 psig @ 3456.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.15

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time: 22:22:21

End Time:

04:23:40

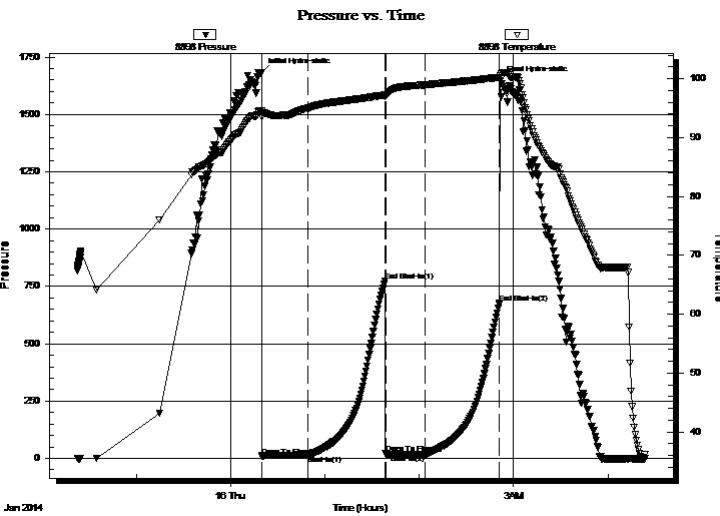
Time On Btm:

2014.01.16 @ 00:19:20

Time Off Btm:

2014.01.16 @ 02:51:20

TEST COMMENT: Fair surface blow built to 4"
Dead no blow back
Weak surface blow built to 2 1/2"
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1682.67	94.49	Initial Hydro-static
1	10.25	93.44	Open To Flow (1)
30	13.96	94.99	Shut-In(1)
79	772.34	97.21	End Shut-In(1)
79	21.79	96.97	Open To Flow (2)
105	17.58	98.94	Shut-In(2)
152	675.77	100.23	End Shut-In(2)
152	1645.74	100.49	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%O	0.03
20.00	30%O 70%M	0.28

Gas Rates

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



DRILL STEM TEST REPORT

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis, KS

Job Ticket: 56039

DST#: 1

ATTN: Al Downing

Test Start: 2014.01.15 @ 22:22:20

GENERAL INFORMATION:

Formation: **LKC E**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:30

Time Test Ended: 04:23:40

Test Type: Conventional Bottom Hole (Initial)

Tester: Tate Lang

Unit No: 49

Interval: 3455.00 ft (KB) To 3478.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3478.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8897

Inside

Press@RunDepth: psig @ 3456.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.15

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time: 22:22:18

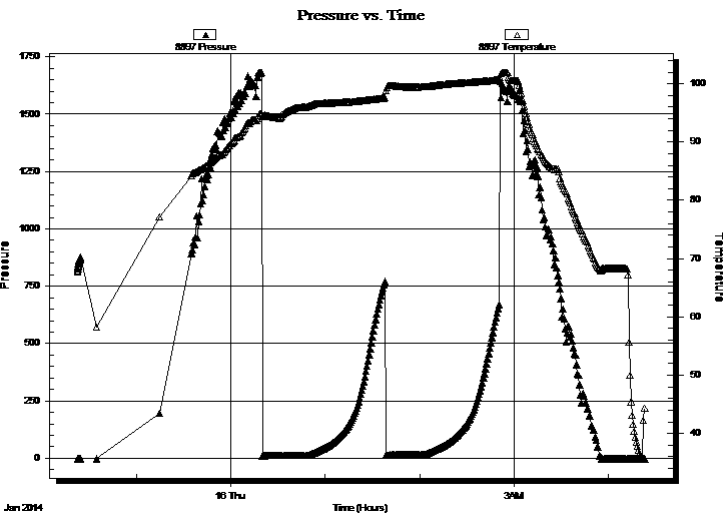
End Time:

04:23:37

Time On Btm:

Time Off Btm:

TEST COMMENT: Fair surface blow built to 4"
Dead no blow back
Weak surface blow built to 2 1/2"
Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	100%O	0.03
20.00	30%O 70%M	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56039

DST#: 1

ATTN: Al Dow ning

Test Start: 2014.01.15 @ 22:22:20

Tool Information

Drill Pipe:	Length: 3441.00 ft	Diameter: 3.80 inches	Volume: 48.27 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:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 48.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3455.00 ft			Final	48000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	23.00 ft				
Tool Length:	43.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

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

Shut In Tool	5.00			3440.00	
Hydraulic tool	5.00			3445.00	
Packer	5.00			3450.00	20.00 Bottom Of Top Packer
Packer	5.00			3455.00	
Stubb	1.00			3456.00	
Recorder	0.00	8897	Inside	3456.00	
Recorder	0.00	8898	Outside	3456.00	
Perforations	19.00			3475.00	
Bullnose	3.00			3478.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56039

DST#: 1

ATTN: Al Dow ning

Test Start: 2014.01.15 @ 22:22:20

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 70.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	100%O	0.028
20.00	30%O 70%M	0.281

Total Length: 22.00 ft Total Volume: 0.309 bbl

Num Fluid Samples: 0

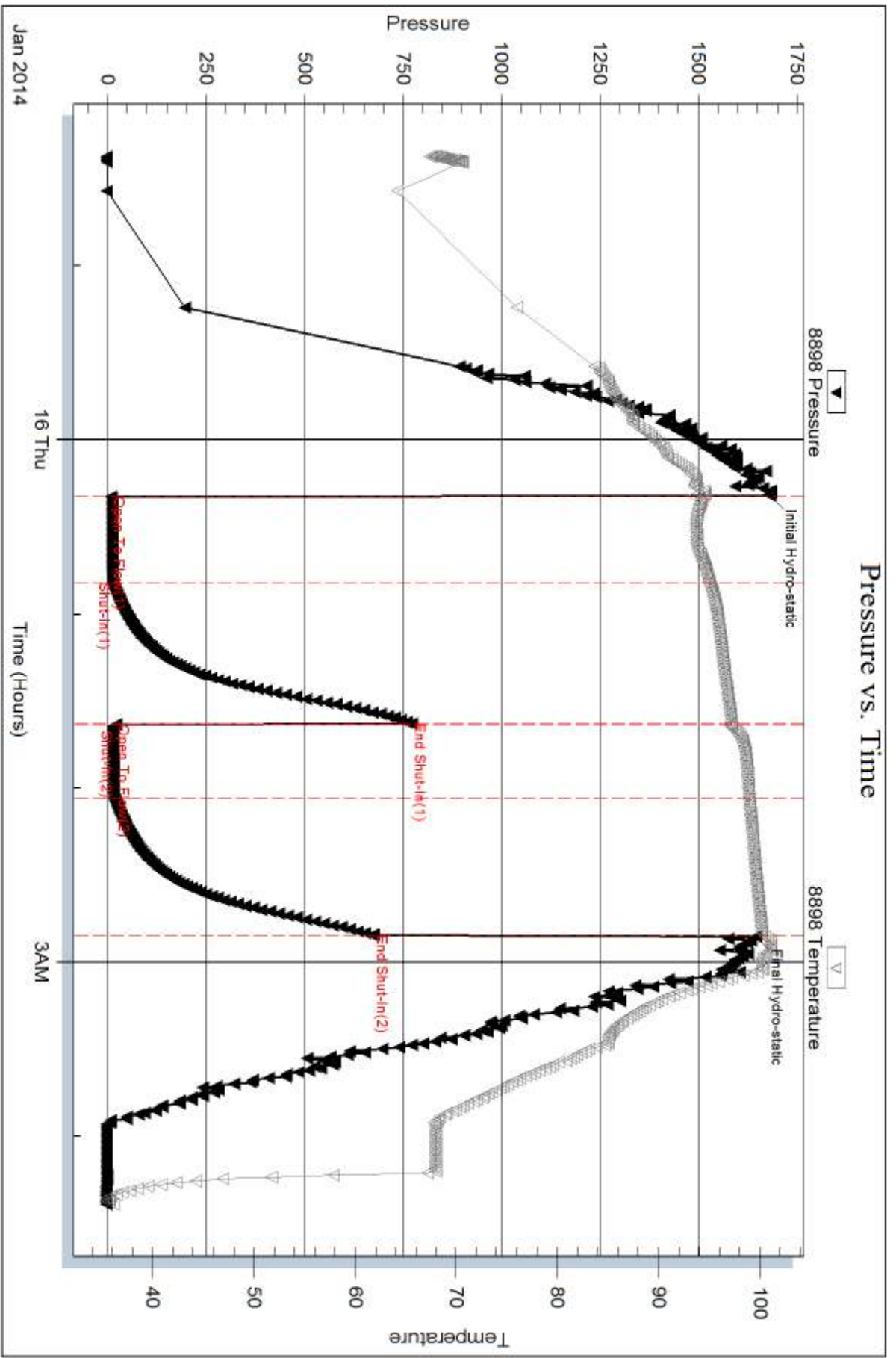
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



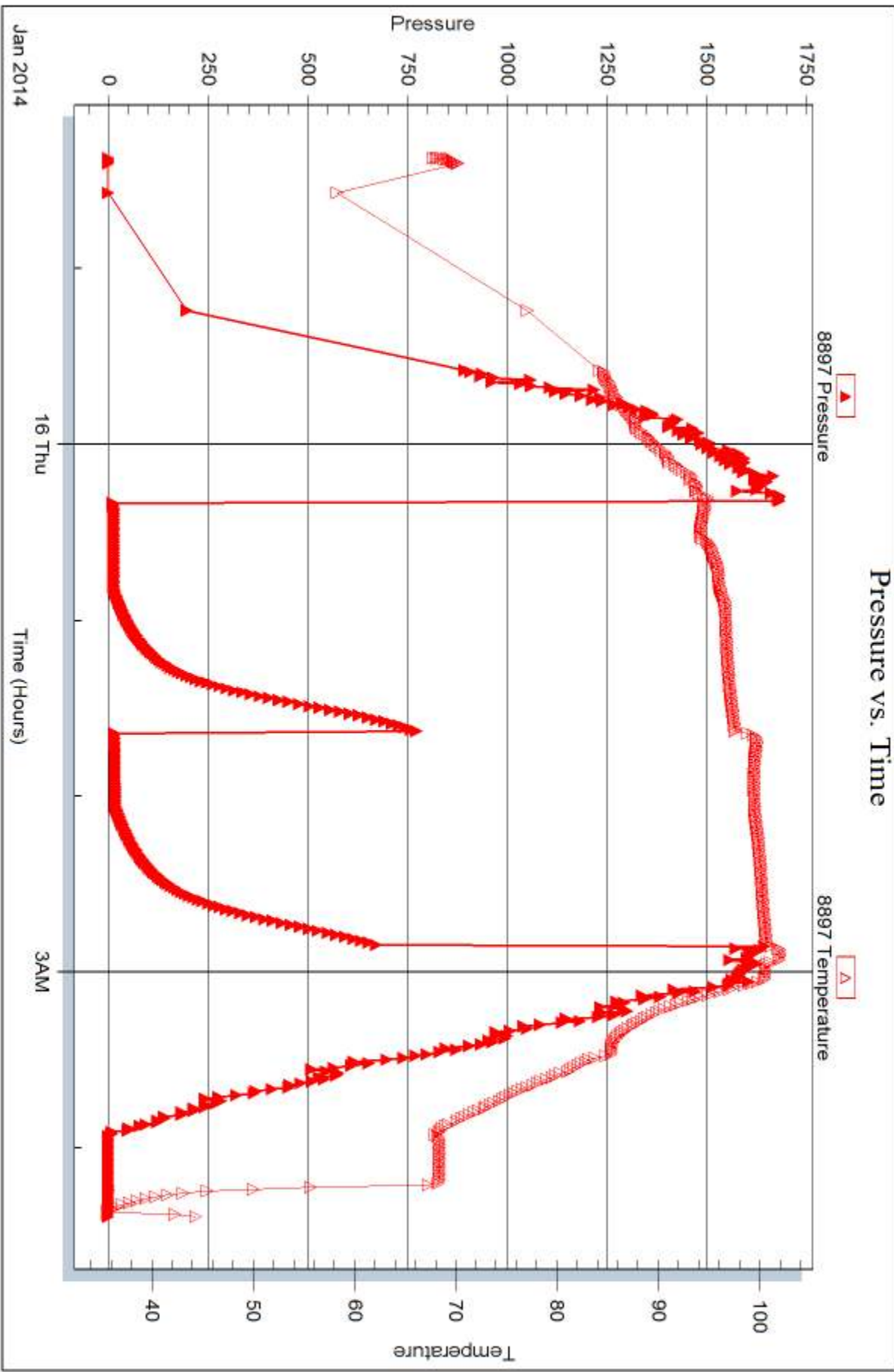
Serial #: 8897

Inside

Dow n ing Nelson Oil Co

25-14s-19w Ellis, KS

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 56039

Printed: 2014.01.23 @ 09:50:10



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Al Downing

25-14s-19w Ellis,KS

Gottschalk Gerstner Unit #1-25

Start Date: 2014.01.16 @ 14:07:22

End Date: 2014.01.16 @ 20:34:52

Job Ticket #: 56040 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.23 @ 09:49:39

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

25-14s-19w Ellis,KS

DST # 2

LKC H

2014.01.16



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56040

DST#: 2

ATTN: Al Dow ning

Test Start: 2014.01.16 @ 14:07:22

GENERAL INFORMATION:

Formation: **LKC H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:11:12

Time Test Ended: 20:34:52

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3520.00 ft (KB) To 3550.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3550.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 92.07 psig @ 3521.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.16

End Date:

2014.01.16

Last Calib.:

2014.01.16

Start Time:

14:07:23

End Time:

20:34:52

Time On Btm:

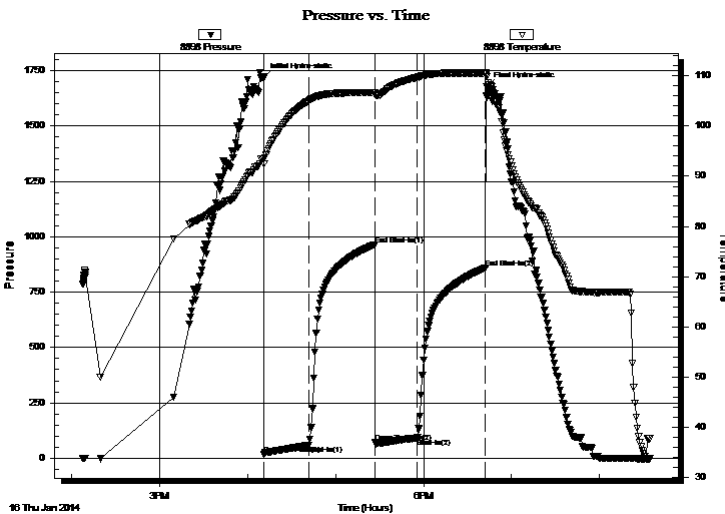
2014.01.16 @ 16:11:02

Time Off Btm:

2014.01.16 @ 18:43:01

TEST COMMENT: B.O.B. In 20 mins
Weak surface blow back built to 3"
B.O.B. In 5 mins
Weak surface blow backilt to 3"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1719.73	93.43	Initial Hydro-static
1	19.28	92.44	Open To Flow (1)
31	58.09	105.05	Shut-In(1)
76	964.31	106.63	End Shut-In(1)
76	71.66	106.29	Open To Flow (2)
105	92.07	109.67	Shut-In(2)
152	859.41	110.45	End Shut-In(2)
152	1678.90	110.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	1140 GIP	0.00
70.00	30%G 70%O	0.98
120.00	30%G 20%O 50%M	1.68

* 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

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56040

DST#: 2

ATTN: Al Dow ning

Test Start: 2014.01.16 @ 14:07:22

Tool Information

Drill Pipe:	Length: 3505.00 ft	Diameter: 3.80 inches	Volume: 49.17 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:	22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	55000.00 lb
			<u>Total Volume: 49.17 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial	50000.00 lb
Depth to Top Packer:	3520.00 ft			Final	51000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	11.00 ft				
Tool Length:	31.00 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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Shut In Tool	5.00			3505.00	
Hydraulic tool	5.00			3510.00	
Packer	5.00			3515.00	20.00 Bottom Of Top Packer
Packer	5.00			3520.00	
Stubb	1.00			3521.00	
Recorder	0.00	8897	Inside	3521.00	
Recorder	0.00	8898	Outside	3521.00	
Perforations	7.00			3528.00	
Bullnose	3.00			3531.00	11.00 Bottom Packers & Anchor
Total Tool Length:	31.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56040

DST#: 2

ATTN: Al Dow ning

Test Start: 2014.01.16 @ 14:07:22

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 8.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
0.00	1140 GIP	0.000
70.00	30%G 70%O	0.982
120.00	30%G 20%O 50%M	1.683

Total Length: 190.00 ft

Total Volume: 2.665 bbl

Num Fluid Samples: 0

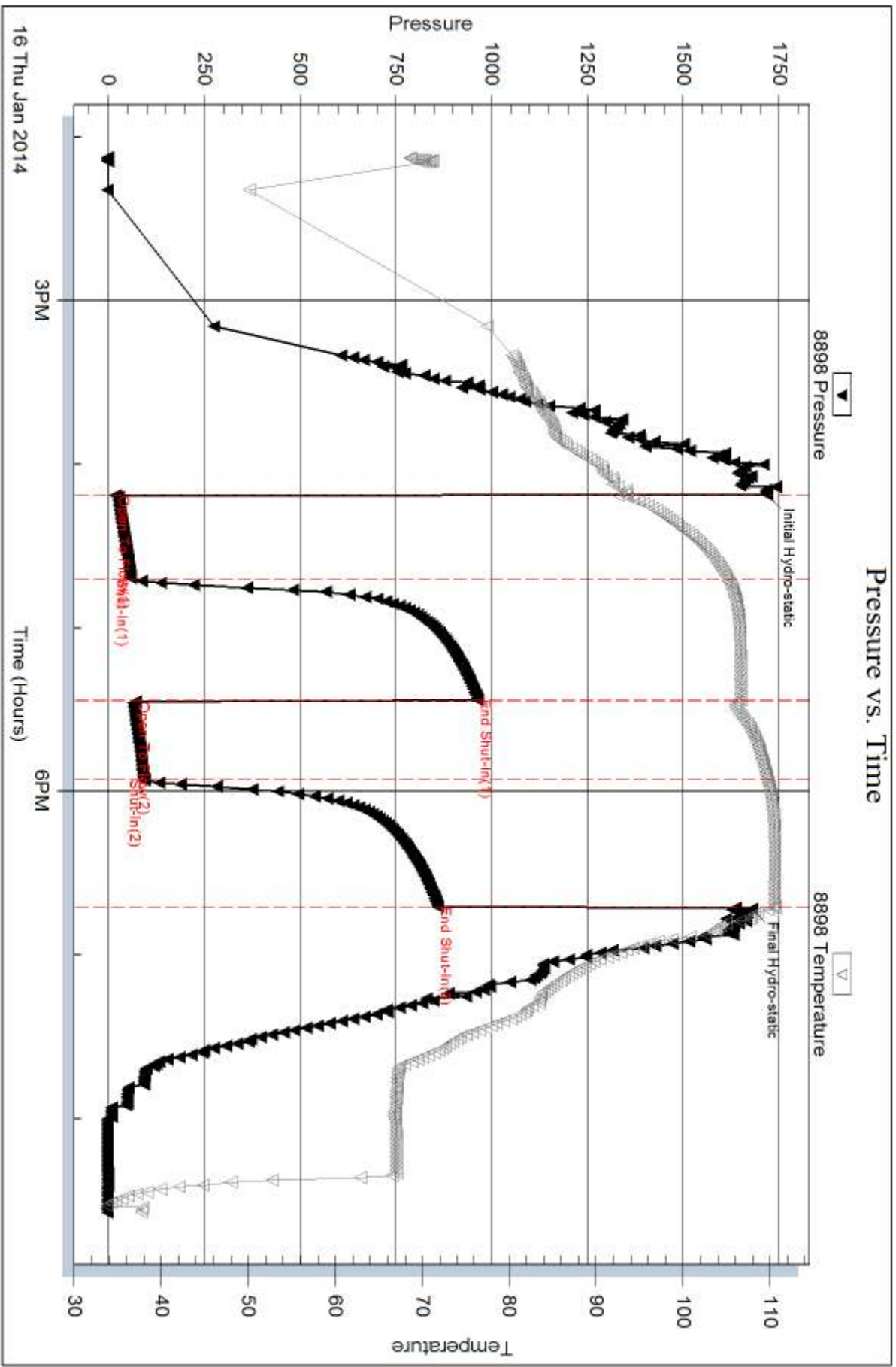
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



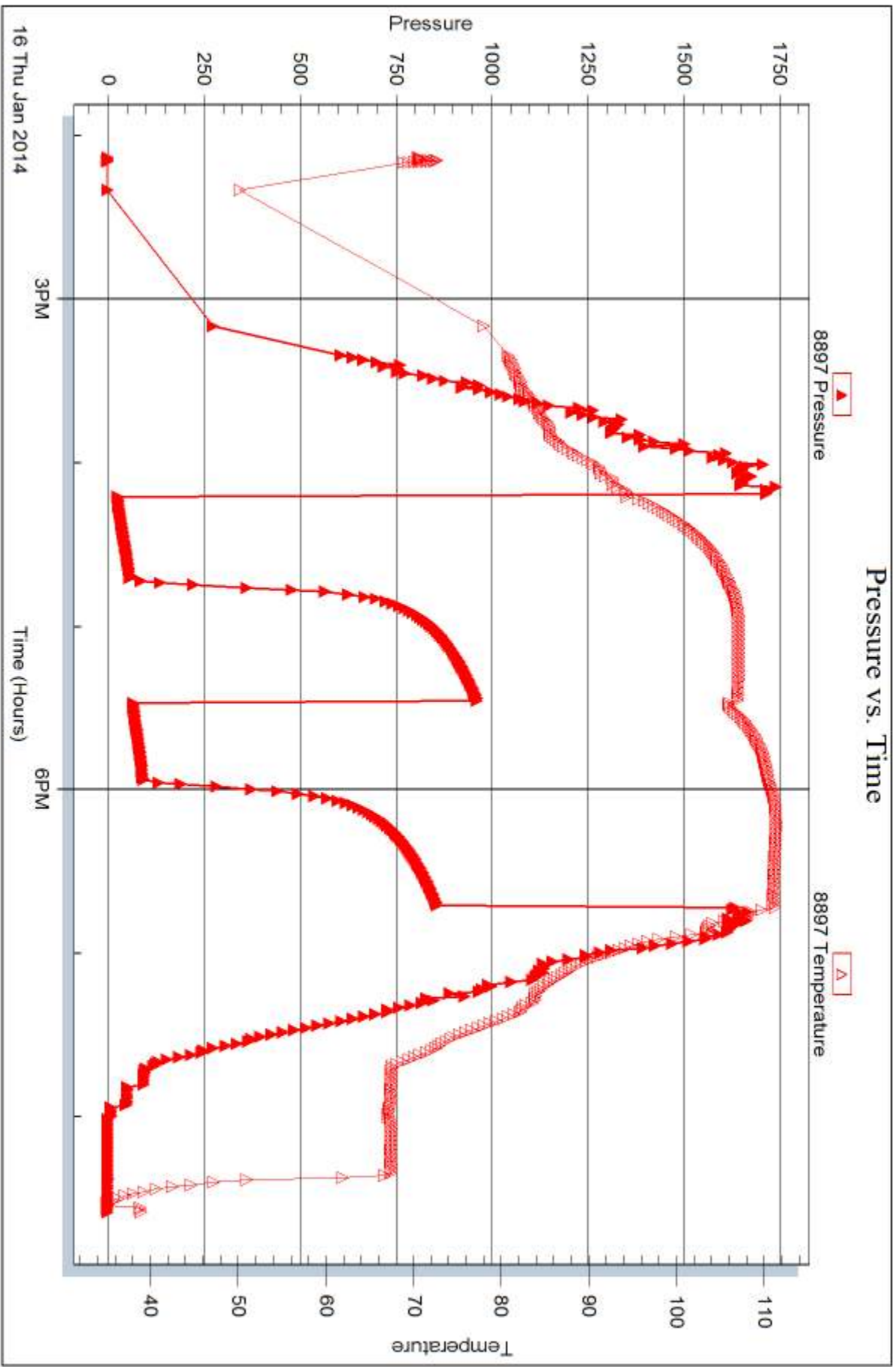
Serial #: 8897

Inside

Dow nng Nelson Oil Co

25-14s-19w Ellis, KS

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 56040

Printed: 2014.01.23 @ 09:49:41



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Al Downing

25-14s-19w Ellis,KS

Gottschalk Gerstner Unit #1-25

Start Date: 2014.01.17 @ 04:47:46

End Date: 2014.01.17 @ 11:19:16

Job Ticket #: 56041 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.23 @ 09:49:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56041

DST#: 3

ATTN: Al Dow ning

Test Start: 2014.01.17 @ 04:47:46

GENERAL INFORMATION:

Formation: **LKC I-J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:45:26

Time Test Ended: 11:19:16

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3550.00 ft (KB) To 3595.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3595.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 41.01 psig @ 3559.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.17

End Date:

2014.01.17

Last Calib.: 2014.01.17

Start Time: 04:47:47

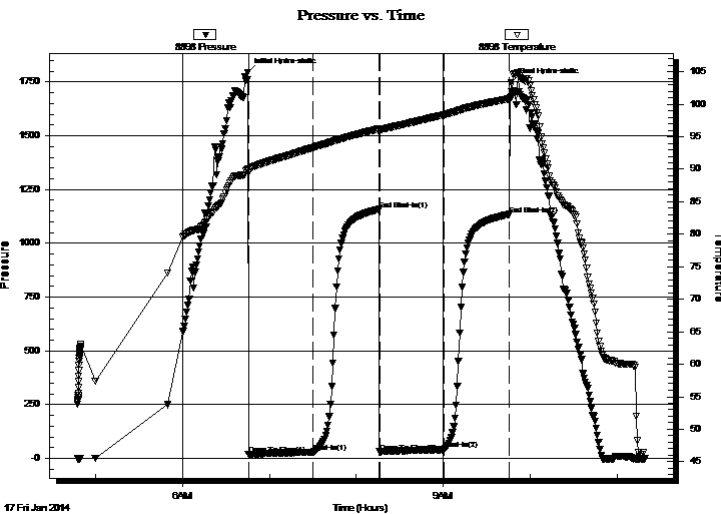
End Time:

11:19:16

Time On Btm: 2014.01.17 @ 06:45:16

Time Off Btm: 2014.01.17 @ 09:46:36

TEST COMMENT: Weak surface blow built to 2 1/2"
Dead no blow back
Weak surface blow built to 3"
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1794.71	90.09	Initial Hydro-static
1	18.03	89.42	Open To Flow (1)
45	29.90	93.33	Shut-In(1)
91	1157.83	96.21	End Shut-In(1)
91	30.41	95.80	Open To Flow (2)
135	41.01	98.37	Shut-In(2)
181	1134.51	100.83	End Shut-In(2)
182	1745.81	101.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%O	0.07
45.00	100%M With oil spots	0.63

* 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

PO Box 1019
Hays KS 67601

ATTN: Al Dow ning

Gottschalk Gerstner Unit #1-25

25-14s-19w Ellis,KS

Job Ticket: 56041

DST#: 3

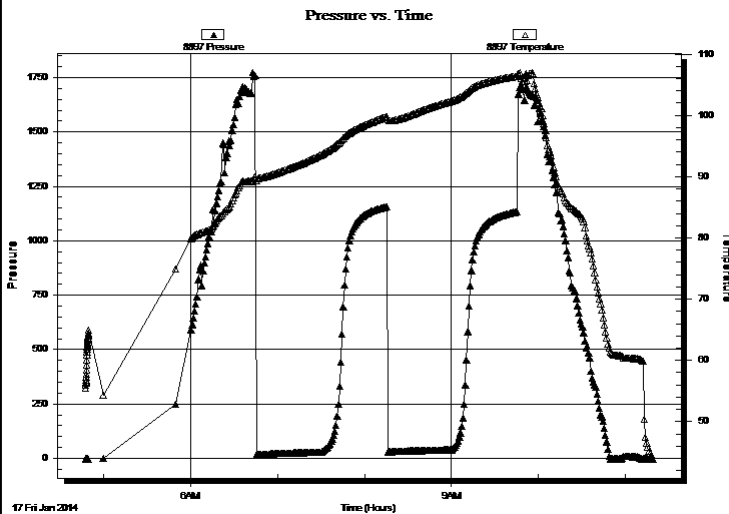
Test Start: 2014.01.17 @ 04:47:46

GENERAL INFORMATION:

Formation: **LKC I-J**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:45:26
 Time Test Ended: 11:19:16
 Interval: **3550.00 ft (KB) To 3595.00 ft (KB) (TVD)**
 Total Depth: 3595.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Tate Lang
 Unit No: 49
 Reference Elevations: 2085.00 ft (KB)
 2077.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8897 Inside
 Press@RunDepth: psig @ 3559.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2014.01.17 End Date: 2014.01.17 Last Calib.: 2014.01.17
 Start Time: 04:47:39 End Time: 11:19:08 Time On Btm:
 Time Off Btm:

TEST COMMENT: Weak surface blow built to 2 1/2"
 Dead no blow back
 Weak surface blow built to 3"
 Dead no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%O	0.07
45.00	100%M With oil spots	0.63

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56041

DST#: 3

ATTN: Al Downing

Test Start: 2014.01.17 @ 04:47:46

Tool Information

Drill Pipe:	Length: 3536.00 ft	Diameter: 3.80 inches	Volume: 49.60 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: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 49.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	3550.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3535.00	
Hydraulic tool	5.00			3540.00	
Packer	5.00			3545.00	20.00 Bottom Of Top Packer
Packer	5.00			3550.00	
Stubb	1.00			3551.00	
Perforations	8.00			3559.00	
Recorder	0.00	8897	Inside	3559.00	
Recorder	0.00	8898	Outside	3559.00	
Change Over Sub	1.00			3560.00	
Drill Pipe	31.00			3591.00	
Change Over Sub	1.00			3592.00	
Bullnose	3.00			3595.00	45.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56041

DST#: 3

ATTN: Al Dow ning

Test Start: 2014.01.17 @ 04:47:46

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 8.00 lb/gal

Cushion Length: ft

Water Salinity: ppm

Viscosity: 65.00 sec/qt

Cushion Volume: bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	100%O	0.070
45.00	100%M With oil spots	0.631

Total Length: 50.00 ft Total Volume: 0.701 bbl

Num Fluid Samples: 0

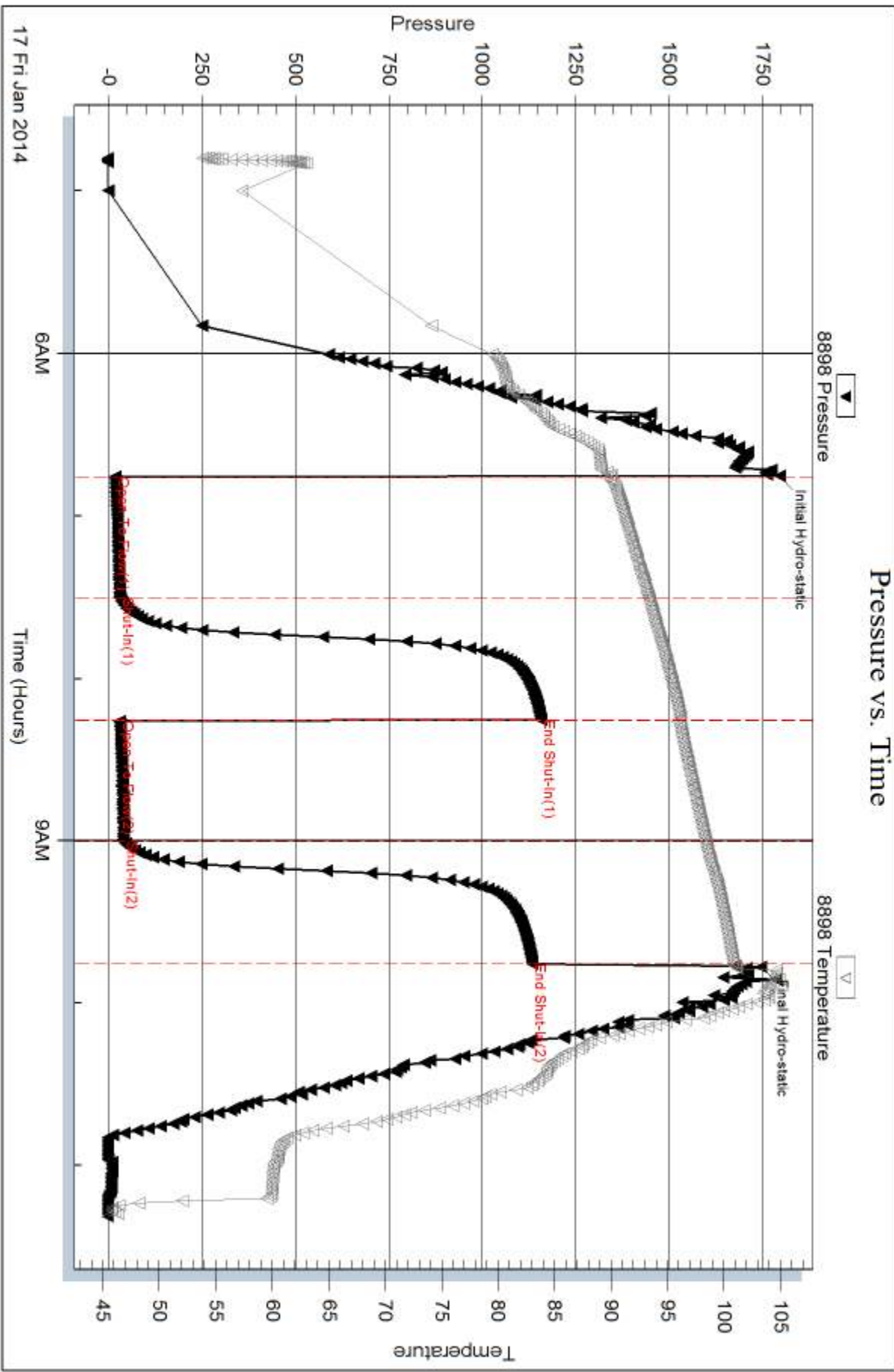
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



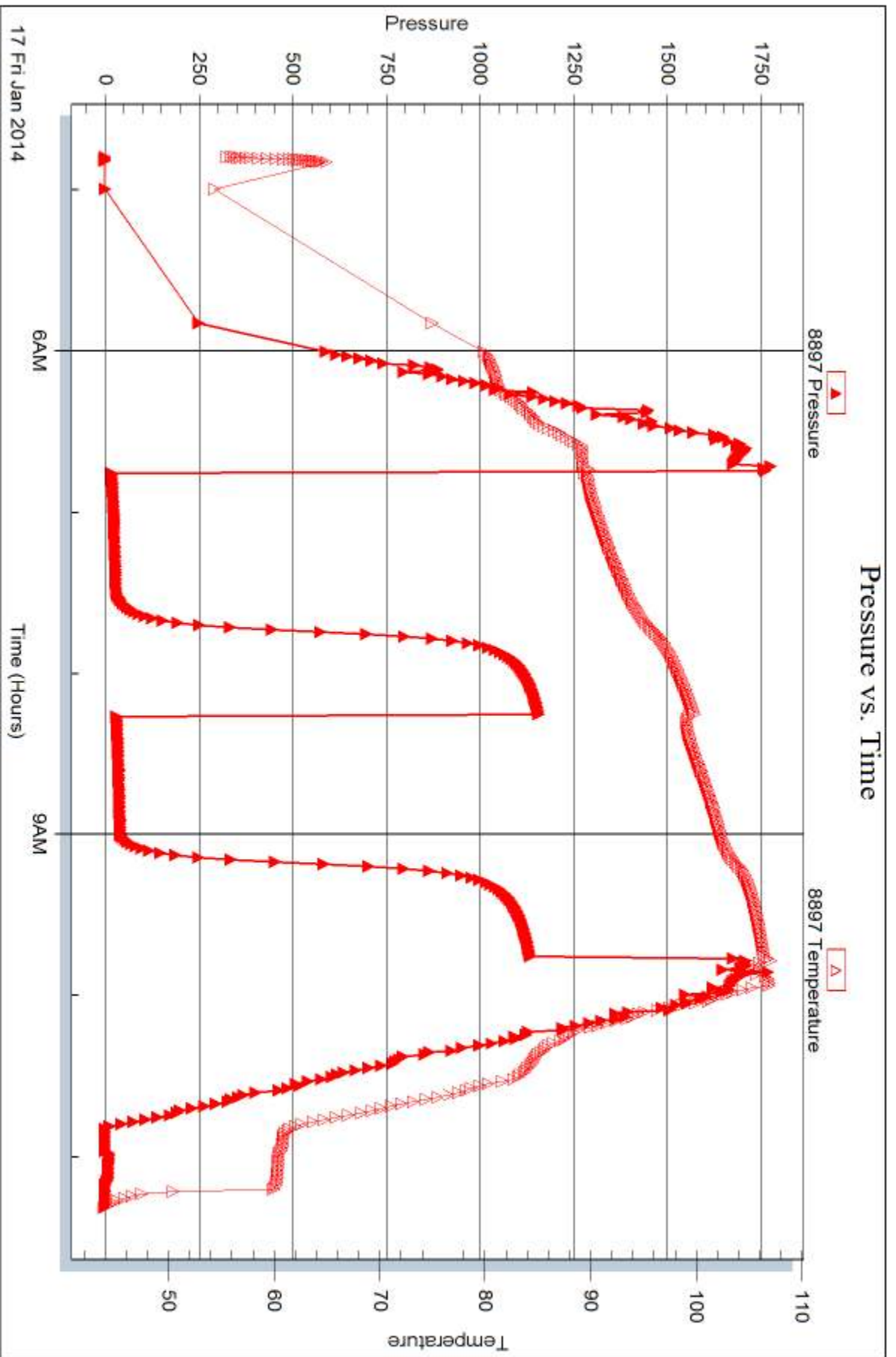
Serial #: 8897

Inside

Dow n/ing Nelson Oil Co

25-14s-19w Ellis, KS

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 56041

Printed: 2014.01.23 @ 09:49:13



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Al Downing

25-14s-19w Ellis,KS

Gottschalk Gerstner Unit #1-25

Start Date: 2014.01.18 @ 02:30:39

End Date: 2014.01.18 @ 08:54:09

Job Ticket #: 56042 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.23 @ 09:48:18

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

25-14s-19w Ellis,KS

DST # 4

Arbuckle

2014.01.18



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56042

DST#: 4

ATTN: Al Dow ning

Test Start: 2014.01.18 @ 02:30:39

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:28:09

Time Test Ended: 08:54:09

Test Type: Conventional Bottom Hole (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3688.00 ft (KB) To 3729.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3729.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 38.45 psig @ 3693.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.18

End Date:

2014.01.18

Last Calib.:

2014.01.18

Start Time: 02:30:40

End Time:

08:54:09

Time On Btm:

2014.01.18 @ 04:27:49

Time Off Btm:

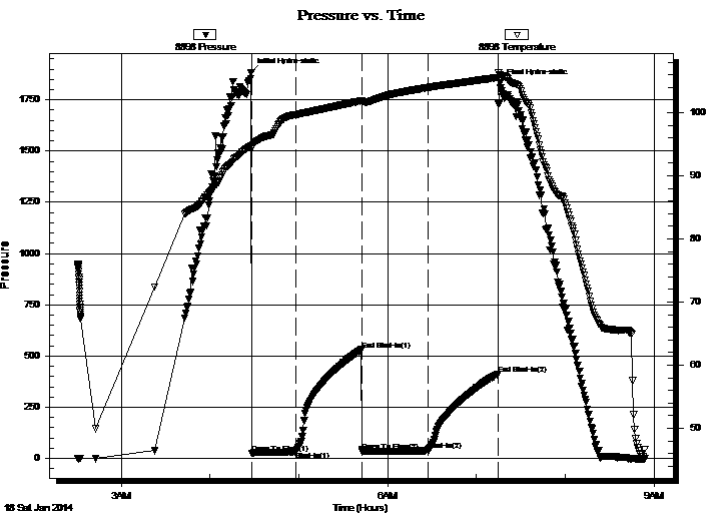
2014.01.18 @ 07:16:09

TEST COMMENT: Slid 8' Weak surface blow started at 2" Built to 4"

Dead no blow

Weak surface blow built to 2"

Dead no blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1883.87	94.74	Initial Hydro-static
1	24.46	94.28	Open To Flow (1)
30	33.14	99.66	Shut-In(1)
75	530.14	101.86	End Shut-In(1)
75	36.35	101.69	Open To Flow (2)
120	38.45	103.97	Shut-In(2)
167	411.71	105.55	End Shut-In(2)
169	1831.40	106.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% Heavy Oil	0.21
45.00	10%O 90%M	0.63

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co
PO Box 1019
Hays KS 67601
ATTN: Al Downing

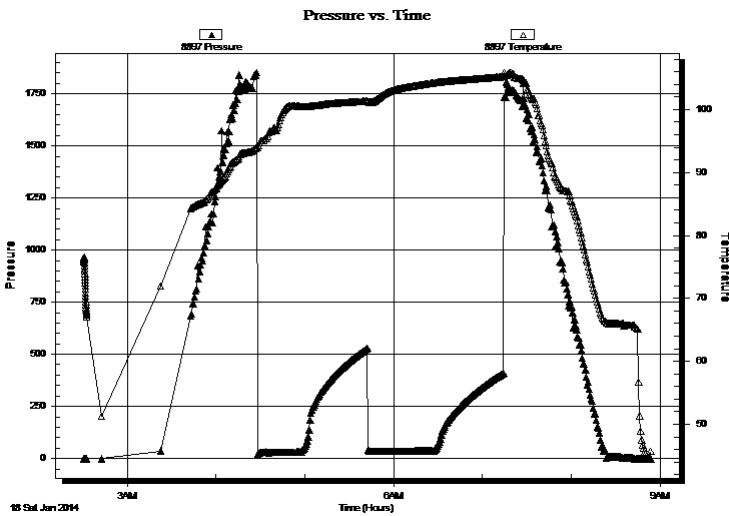
Gottschalk Gerstner Unit #1-25
25-14s-19w Ellis,KS
Job Ticket: 56042 **DST#: 4**
Test Start: 2014.01.18 @ 02:30:39

GENERAL INFORMATION:

Formation: Arbuckle	
Deviated: No Whipstock:	ft (KB)
Time Tool Opened: 04:28:09	Test Type: Conventional Bottom Hole (Reset)
Time Test Ended: 08:54:09	Tester: Tate Lang
	Unit No: 49
Interval: 3688.00 ft (KB) To 3729.00 ft (KB) (TVD)	Reference Elevations: 2085.00 ft (KB)
Total Depth: 3729.00 ft (KB) (TVD)	2077.00 ft (CF)
Hole Diameter: 7.88 inches	KB to GR/CF: 8.00 ft
Hole Condition: Good	

Serial #: 8897	Inside		
Press@RunDepth: psig @	3693.00 ft (KB)	Capacity:	8000.00 psig
Start Date:	2014.01.18	End Date:	2014.01.18
Start Time:	02:30:38	End Time:	08:54:07
		Last Calib.:	2014.01.18
		Time On Btm:	
		Time Off Btm:	

TEST COMMENT: Slid 8' Weak surface blow started at 2" Built to 4"
Dead no blow
Weak surface blow built to 2"
Dead no blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	100% Heavy Oil	0.21
45.00	10%O 90%M	0.63

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56042

DST#: 4

ATTN: Al Downing

Test Start: 2014.01.18 @ 02:30:39

Tool Information

Drill Pipe:	Length: 3691.00 ft	Diameter: 3.80 inches	Volume: 51.78 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: 22000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 51.78 bbl</u>	Tool Chased 8.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3688.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 ft			
Tool Length:	61.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3673.00	
Hydraulic tool	5.00			3678.00	
Packer	5.00			3683.00	20.00 Bottom Of Top Packer
Packer	5.00			3688.00	
Stubb	1.00			3689.00	
Perforations	4.00			3693.00	
Recorder	0.00	8897	Inside	3693.00	
Recorder	0.00	8898	Outside	3693.00	
Change Over Sub	1.00			3694.00	
Drill Pipe	31.00			3725.00	
Bullnose	3.00			3728.00	
Change Over Sub	1.00			3729.00	41.00 Bottom Packers & Anchor

Total Tool Length: 61.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56042

DST#: 4

ATTN: Al Dow ning

Test Start: 2014.01.18 @ 02:30:39

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: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure: psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	100% Heavy Oil	0.210
45.00	10%O 90%M	0.631

Total Length: 60.00 ft Total Volume: 0.841 bbl

Num Fluid Samples: 0

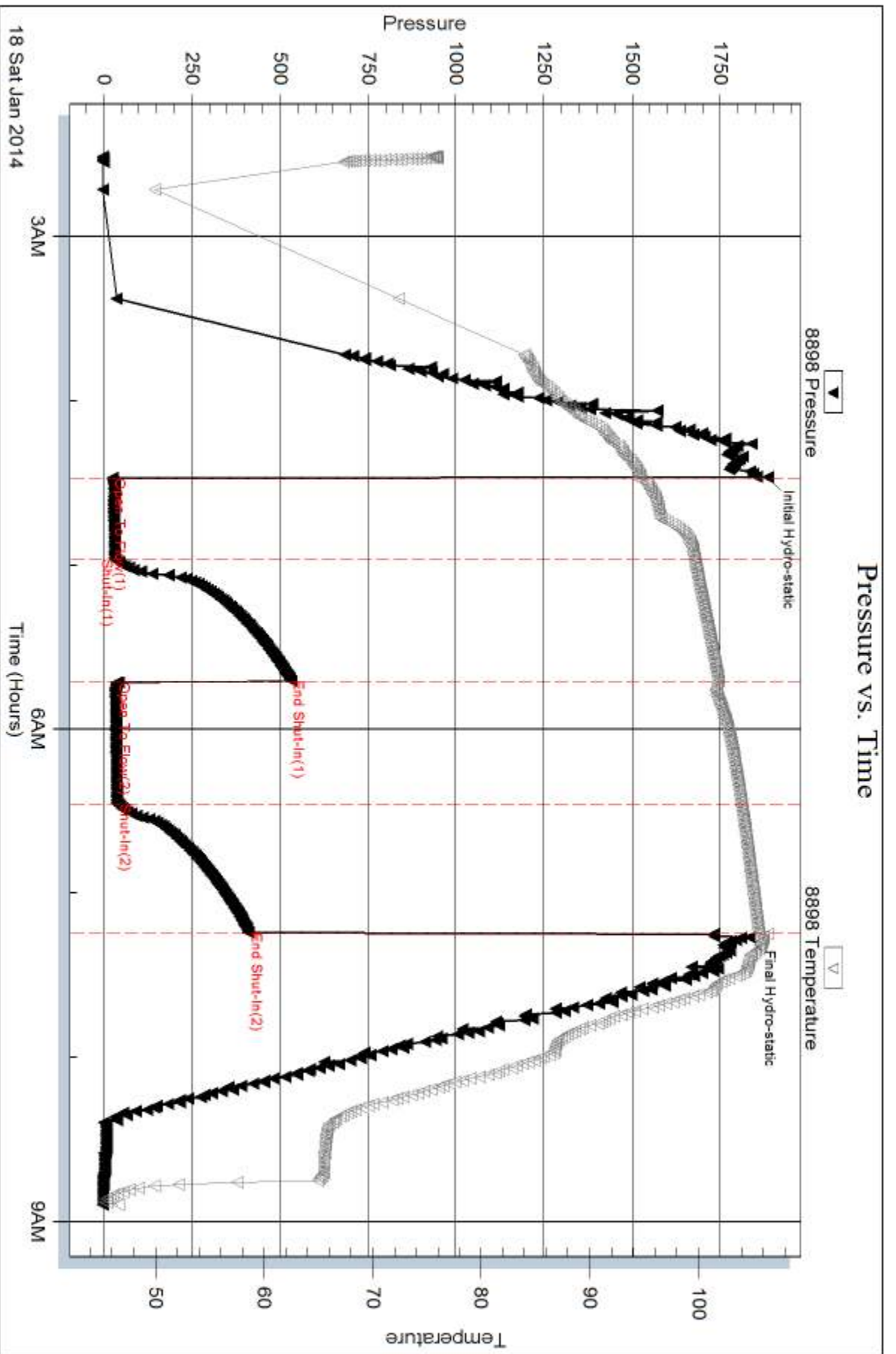
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



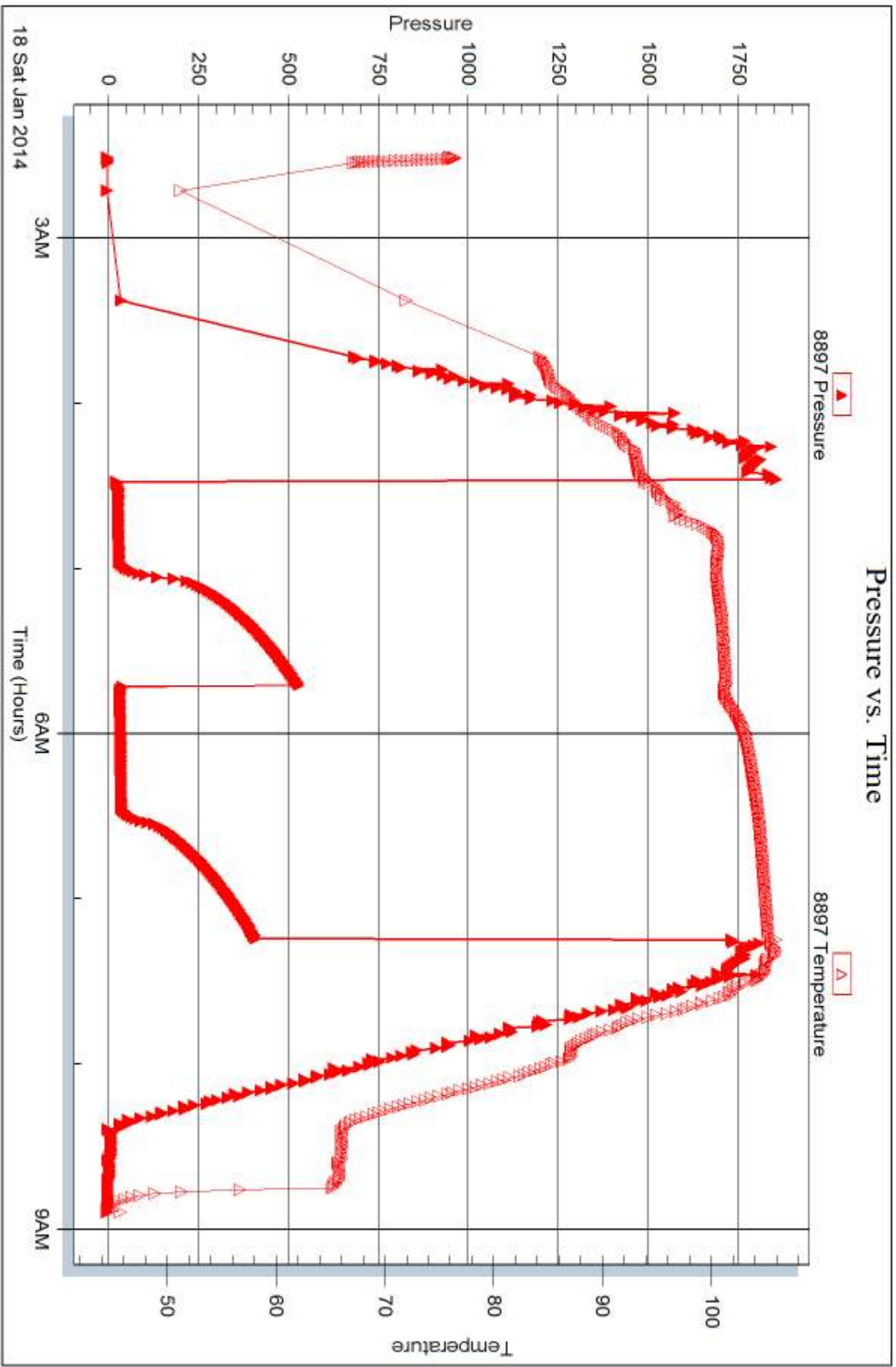
Serial #: 8897

Inside

Dow n/ing Nelson Oil Co

25-14s-19w Ellis, KS

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 56042

Printed: 2014.01.23 @ 09:48:21



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Al Downing

25-14s-19w Ellis,KS

Gottschalk Gerstner Unit #1-25

Start Date: 2014.01.19 @ 00:02:54

End Date: 2014.01.19 @ 06:13:24

Job Ticket #: 56043 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2014.01.23 @ 09:47:35



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56043

DST#: 5

ATTN: Al Dow ning

Test Start: 2014.01.19 @ 00:02:54

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:32:34

Time Test Ended: 06:13:24

Test Type: Conventional Straddle (Reset)

Tester: Tate Lang

Unit No: 49

Interval: 3731.00 ft (KB) To 3742.00 ft (KB) (TVD)

Reference Elevations: 2085.00 ft (KB)

Total Depth: 3825.00 ft (KB) (TVD)

2077.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8898 Outside

Press@RunDepth: 118.64 psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2014.01.19

End Date:

2014.01.19

Last Calib.:

2014.01.19

Start Time: 00:02:55

End Time:

06:13:24

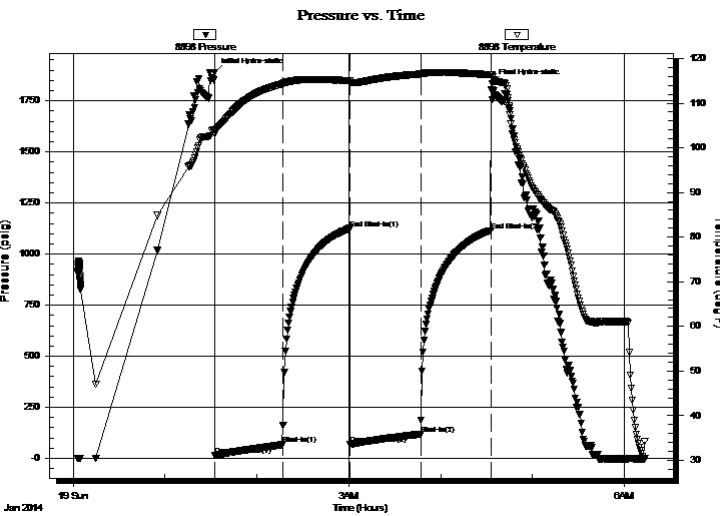
Time On Btm:

2014.01.19 @ 01:32:24

Time Off Btm:

2014.01.19 @ 04:33:33

TEST COMMENT: Fair surace blow built to 6"
Dead no blow back
Fair surface blow built to 5"
Dead no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1889.18	104.05	Initial Hydro-static
1	13.95	103.04	Open To Flow (1)
45	67.53	114.32	Shut-In(1)
89	1125.37	115.00	End Shut-In(1)
89	68.33	114.52	Open To Flow (2)
135	118.64	116.53	Shut-In(2)
181	1115.69	116.35	End Shut-In(2)
182	1833.93	116.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
240.00	95%W 5%M	3.37

* 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

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56043

DST#: 5

ATTN: Al Dow ning

Test Start: 2014.01.19 @ 00:02:54

Tool Information

Drill Pipe:	Length: 3726.00 ft	Diameter: 3.80 inches	Volume: 52.27 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: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume: 52.27 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	52000.00 lb
Depth to Top Packer:	3731.00 ft			Final	54000.00 lb
Depth to Bottom Packer:	3742.00 ft				
Interval betw een Packers:	11.00 ft				
Tool Length:	119.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Shut In Tool	5.00			3716.00		
Hydraulic tool	5.00			3721.00		
Packer	5.00			3726.00	20.00	Bottom Of Top Packer
Packer	5.00			3731.00		
Stubb	1.00			3732.00		
Recorder	0.00	8897	Inside	3732.00		
Recorder	0.00	8898	Outside	3732.00		
perforations	6.00			3738.00		
Blank Off Sub	1.00			3739.00		
Blank Spacing	3.00			3742.00	11.00	Tool Interval
Packer	5.00			3747.00		
Stubb	1.00			3748.00		
Perforations	14.00			3762.00		
Recorder	0.00	8354	Below	3762.00		
Change Over Sub	1.00			3763.00		
Blank Spacing	63.00			3826.00		
Change Over Sub	1.00			3827.00		
Bullnose	3.00			3830.00	88.00	Bottom Packers & Anchor

Total Tool Length: 119.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

Gottschalk Gerstner Unit #1-25

PO Box 1019
Hays KS 67601

25-14s-19w Ellis,KS

Job Ticket: 56043

DST#: 5

ATTN: Al Downing

Test Start: 2014.01.19 @ 00:02:54

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: 55.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
240.00	95%W 5%M	3.367

Total Length: 240.00 ft

Total Volume: bbl

Num Fluid Samples: 0

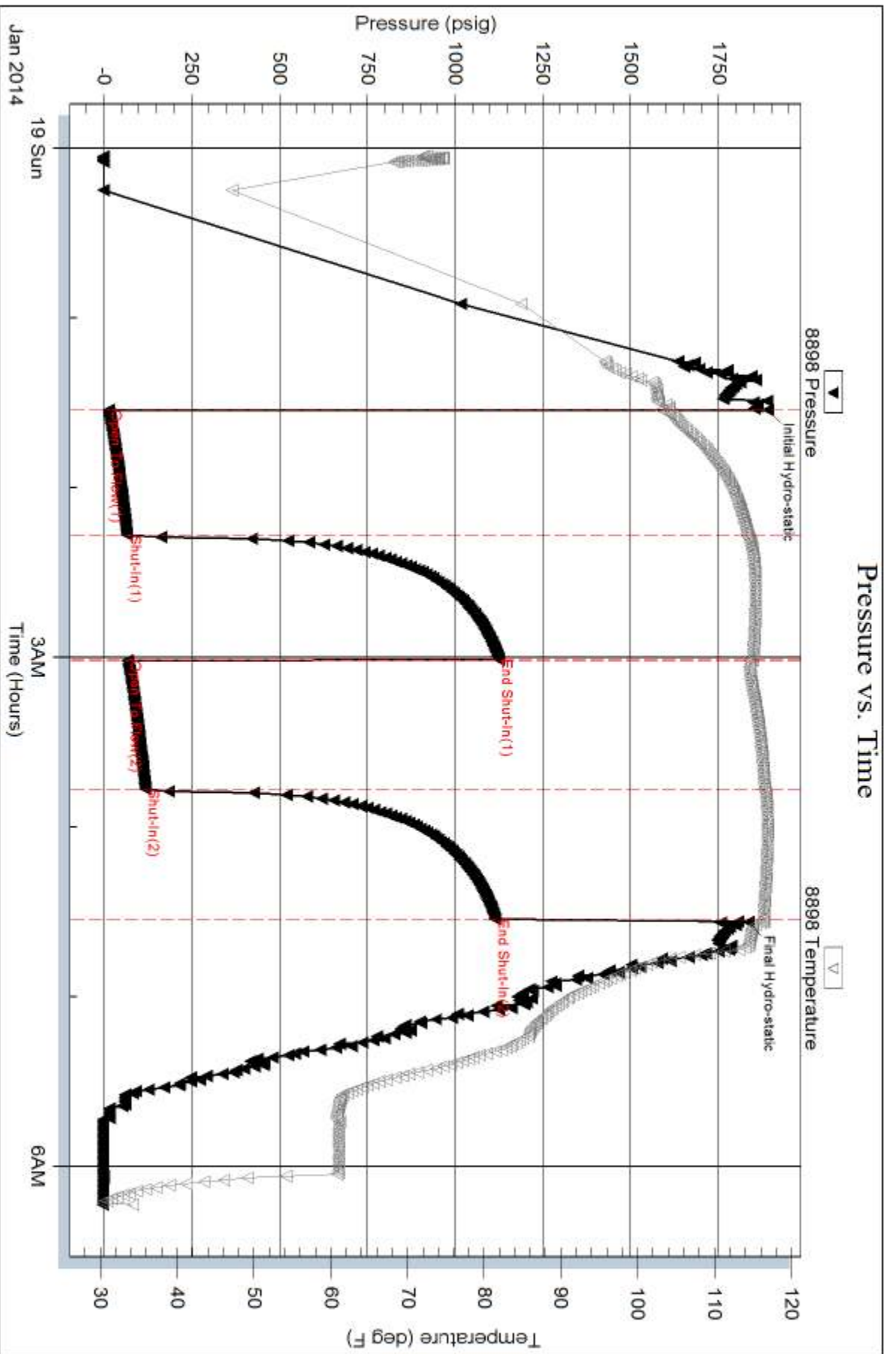
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



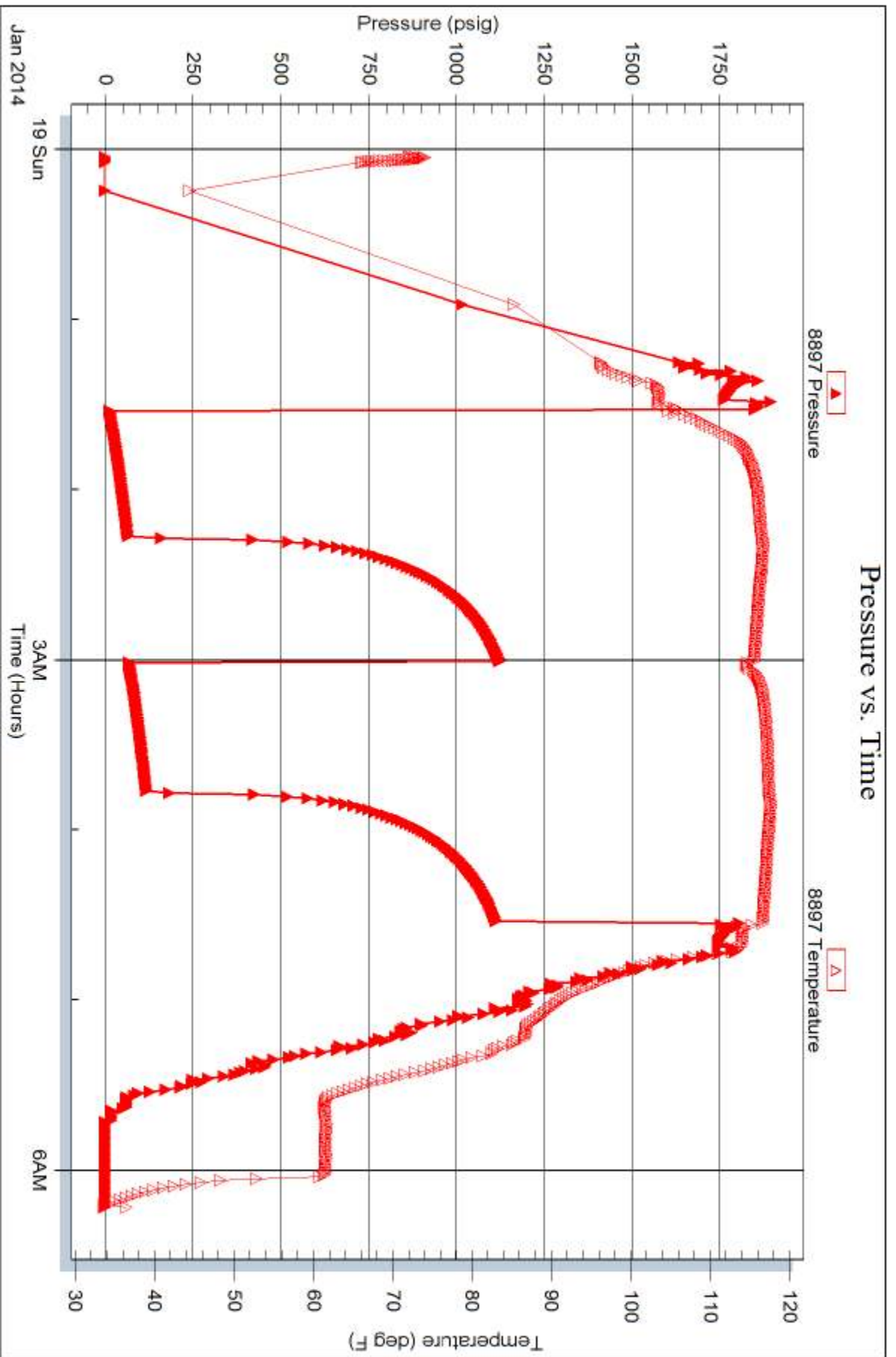
Serial #: 8897

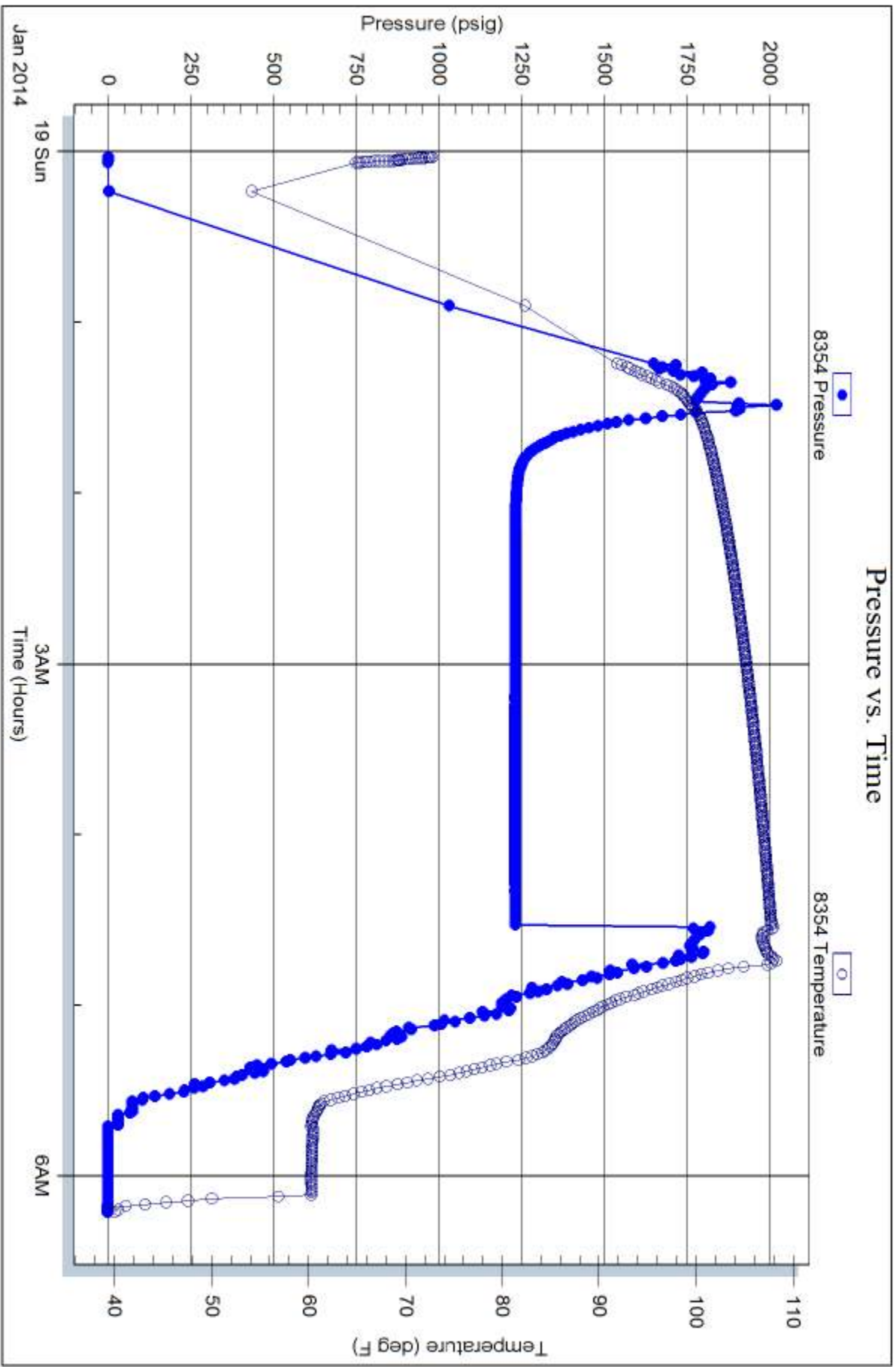
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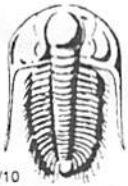
Dow nng Nelson Oil Co

25-14s-19w Ellis, KS

DST Test Number: 5







TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56039

Well Name & No. Gottschalk - Gastro Unit #1-25 Test No. 1 Date 1-15-14/1-16-14
 Company Downing-Nelson Oil Co. Inc Elevation 2085 KB 2087 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. AI Rig Discovery #4
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3455 3478 Zone Tested E Zone
 Anchor Length 23' Drill Pipe Run 3441 Mud Wt. 8.5
 Top Packer Depth 3451 Drill Collars Run 0 Vis 70
 Bottom Packer Depth 3455 Wt. Pipe Run 0 WL 8.0
 Total Depth 3478 Chlorides 3000 ppm System LCM 2#
 Blow Description Fair surface blow built to 4in.
Dead no blow back
Well surface blow built to 2 1/2
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
2	Clear Oil		100		
20	OCM		30		70

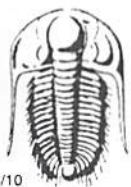
Rec Total 22 BHT 100 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1683 Test 1150 T-On Location 20:45
 (B) First Initial Flow 10 Jars _____ T-Started 22:22
 (C) First Final Flow 14 Safety Joint _____ T-Open 00:21
 (D) Initial Shut-In 772 Circ Sub _____ T-Pulled 02:51
 (E) Second Initial Flow 72 Hourly Standby _____ T-Out 04:25
 (F) Second Final Flow 78 Mileage 22 RT 34.10 Comments _____
 (G) Final Shut-In 1676 Sampler _____
 (H) Final Hydrostatic 1646 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 30 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 30 Extra Copies _____
 Final Shut-In 45 Sub Total 0
 Total 1184.10
 Sub Total 1184.10 MP/DST Disc't _____

Approved By _____ Our Representative [Signature] Thanks

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 56040

Well Name & No. Gottshalk-Gerstner Unit #1-25 Test No. 2 Date 1-16-14
 Company Downing-Nelson Oil Co Inc Elevation 2085 KB 2077 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. AL Rig Discovery #4
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3520 3550 Zone Tested H Zone
 Anchor Length 30 Drill Pipe Run 3505 Mud Wt. 8.5
 Top Packer Depth 3516 Drill Collars Run 0 Vis 6.5
 Bottom Packer Depth 3520 Wt. Pipe Run 0 WL 8.0
 Total Depth 3550 Chlorides 3000 ppm System LCM 2

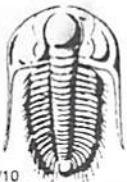
Blow Description B, D, B 20 mins
Weak surface blow back built to 3in
B, D, B, 5 mins
Weak surface blow back built to 3in

Rec	Feet of	%gas	%oil	%water	%mud
0	1140 GIP	100			
70	60	30	70		
120	60cm	30	20		50

Rec Total 190 BHT 110 Gravity 37 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1720 Test 1150 T-On Location 13:30
 (B) First Initial Flow 19 Jars - T-Started 14:07
 (C) First Final Flow 58 Safety Joint - T-Open 16:11
 (D) Initial Shut-In 964 Circ Sub - T-Pulled 18:41
 (E) Second Initial Flow 72 Hourly Standby - T-Out 20:35
 (F) Second Final Flow 92 Mileage 22RH 34.10 Comments -
 (G) Final Shut-In 959 Sampler -
 (H) Final Hydrostatic 1679 Straddle - Ruined Shale Packer -
 Shale Packer - Ruined Packer -
 Extra Packer - Extra Copies -
 Initial Open 30 Extra Recorder - Sub Total 0
 Initial Shut-In 45 Day Standby - Total 1184.10
 Final Flow 30 Accessibility - MP/DST Disc't -
 Final Shut-In 45 Sub Total 1184.10

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. 56041

4/10

Well Name & No. Gottshall - Goster Unit #2 Test No. 3 Date 1-17-14
 Company Downing Nelson Oil Co Inc Elevation 2085 KB 2077 GL
 Address Po Box 1019 Hays KS 67601
 Co. Rep / Geo. AL Rig Discovery #2
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

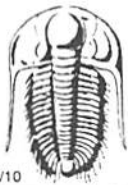
Interval Tested 3550 3595 Zone Tested F&S
 Anchor Length 45' Drill Pipe Run 3536 Mud Wt. 8.5
 Top Packer Depth 3546 Drill Collars Run 0 Vis 65
 Bottom Packer Depth 3550 Wt. Pipe Run 0 WL 8.0
 Total Depth 3595 Chlorides 3000 ppm System LCM 2
 Blow Description Weak surface blow built 2 1/2 in
Dead no blow back
Weak surface blow built to 3 in
Dead no blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>5</u>	Feet of <u>Free Oil</u>		<u>100</u>		
Rec <u>45</u>	Feet of <u>Mud / Oil spots</u>			<u>20</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 50 BHT 96 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1795 Test 1150 T-On Location 04:15
 (B) First Initial Flow 18 Jars _____ T-Started 04:47
 (C) First Final Flow 30 Safety Joint _____ T-Open 06:45
 (D) Initial Shut-In 1158 Circ Sub _____ T-Pulled 09:45
 (E) Second Initial Flow 30 Hourly Standby _____ T-Out 11:18
 (F) Second Final Flow 41 Mileage 22 R/V 34.10 Comments _____
 (G) Final Shut-In 1135 Sampler _____
 (H) Final Hydrostatic 1746 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1184.10
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1184.10

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. 56042

Well Name & No. Gottschalk-Gerstner Unit #1-25 Test No. 4 Date 1-18-14
 Company Downing Nelson Oil Co Elevation 2085 KB 2077 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #24
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3698 3729 Zone Tested Arbuckle
 Anchor Length 41 Drill Pipe Run 3691 Mud Wt. 9.0
 Top Packer Depth 3684 Drill Collars Run 0 Vis 50
 Bottom Packer Depth 3688 Wt. Pipe Run 0 WL 8.8
 Total Depth 3729 Chlorides 5000 ppm System LCM 2

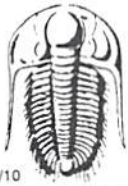
Blow Description Sld 8ft Weak surface blow started @ 2in built to 4in.
Dead w/o blow back
Weak surface blow built to 2in
Dead w/o blow back

Rec	Feet of	%gas	%oil	%water	%mud
Rec <u>15</u>	Feet of <u>Heavy Oil</u>	%gas	<u>100</u> %oil	%water	%mud
Rec <u>45</u>	Feet of <u>OCM</u>	%gas <u>10</u>	%oil	%water <u>90</u>	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 60 BHT 106 Gravity _____ API RW _____ @ _____ ° F Chlorides _____ ppm

(A) Initial Hydrostatic 1884 Test 1150 T-On Location 01:45
 (B) First Initial Flow 24 Jars _____ T-Started 02:30
 (C) First Final Flow 33 Safety Joint _____ T-Open 04:27
 (D) Initial Shut-In 530 Circ Sub _____ T-Pulled 07:12
 (E) Second Initial Flow 36 Hourly Standby _____ T-Out 09:54
 (F) Second Final Flow 38 Mileage 22RT 34.10 Comments _____
 (G) Final Shut-In 412 Sampler _____
 (H) Final Hydrostatic 1831 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Initial Open 30 Extra Recorder _____ Sub Total 0
 Initial Shut-In 45 Day Standby _____ Total 1184.10
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1184.10

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. 56043

Well Name & No. Gottshalk-Gostner Unit #1-25 Test No. 5 Date 1-18-14
 Company Downing Nelson Oil Co Elevation 2085 KB 2077 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Rig Discovery #4
 Location: Sec. 25 Twp. 14S Rge. 19W Co. Ellis State KS

Interval Tested 3731 3742 Zone Tested Arbuckle
 Anchor Length 11' 83' Tail Drill Pipe Run 3724 Mud Wt. 88
 Top Packer Depth 3727 Drill Collars Run 0 Vis 55
 Bottom Packer Depth 3731 Wt. Pipe Run 0 WL 8.4
 Total Depth 3825 Chlorides 5000 ppm System LCM 2#
 Blow Description Fair surface blow built to 6in
Dead no blow
Fair surface blow built to 5in
Dead no blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>240</u>	<u>MCW</u>			<u>95</u>	<u>5</u>

Rec Total 240 BHT 116 Gravity _____ API RW 14/2 @ 20° F Chlorides 62000 ppm
 (A) Initial Hydrostatic 1889 Test 1150 T-On Location 22:30
 (B) First Initial Flow 14 Jars _____ T-Started 00:02
 (C) First Final Flow 68 Safety Joint _____ T-Open 01:33
 (D) Initial Shut-In 1125 Circ Sub _____ T-Pulled 04:33
 (E) Second Initial Flow 68 Hourly Standby _____ T-Out 06:13
 (F) Second Final Flow 119 Mileage 22.24 34.10 Comments _____
 (G) Final Shut-In 1116 Sampler _____
 (H) Final Hydrostatic 1834 Straddle 600 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 1784.10
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1784.10

Approved By _____ Our Representative [Signature]
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