



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.13 @ 03:26:00

End Date: 2016.10.13 @ 09:19:45

Job Ticket #: 63487 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:44:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

GENERAL INFORMATION:

Formation: **LKC 'E'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:06:00

Time Test Ended: 09:19:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3714.00 ft (KB) To 3730.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @ Run Depth: 157.42 psig @ 3715.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.13

Last Calib.:

2016.10.13

Start Time: 03:26:15

End Time:

09:19:45

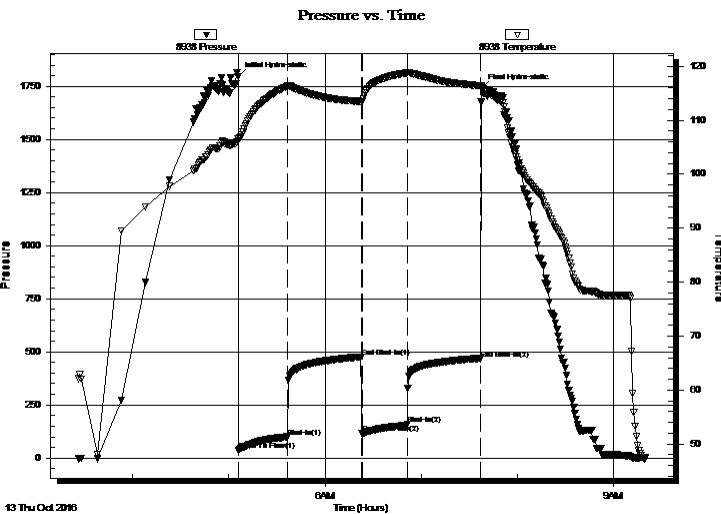
Time On Btm:

2016.10.13 @ 05:05:45

Time Off Btm:

2016.10.13 @ 07:37:30

TEST COMMENT: 30-IF-BOB in 13 minutes
45-ISI- Weak surface blow ; built to 1/4"
30-FF- Strong Blow ; Built to 8"
45-FSI-Very weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1797.32	106.51	Initial Hydro-static
1	38.05	106.17	Open To Flow (1)
31	99.59	116.32	Shut-In(1)
77	475.71	113.45	End Shut-In(1)
78	114.84	113.42	Open To Flow (2)
106	157.42	118.78	Shut-In(2)
151	467.15	116.35	End Shut-In(2)
152	1738.04	116.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
315.00	MW 30%M 70% W	4.13

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

Tool Information

Drill Pipe:	Length: 3669.00 ft	Diameter: 3.80 inches	Volume: 51.47 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	7.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3714.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	16.00 ft				
Tool Length:	36.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3695.00	
Shut In Tool	5.00			3700.00	
Hydraulic tool	5.00			3705.00	
Packer	5.00			3710.00	20.00 Bottom Of Top Packer
Packer	4.00			3714.00	
Stubb	1.00			3715.00	
Recorder	0.00	8353	Outside	3715.00	
Recorder	0.00	8938	Inside	3715.00	
Perforations	11.00			3726.00	
Perforations	4.00			3730.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63487

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 03:26:00

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:

12000 ppm

Viscosity: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
315.00	MW 30%M 70% W	4.127

Total Length: 315.00 ft Total Volume: 4.127 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

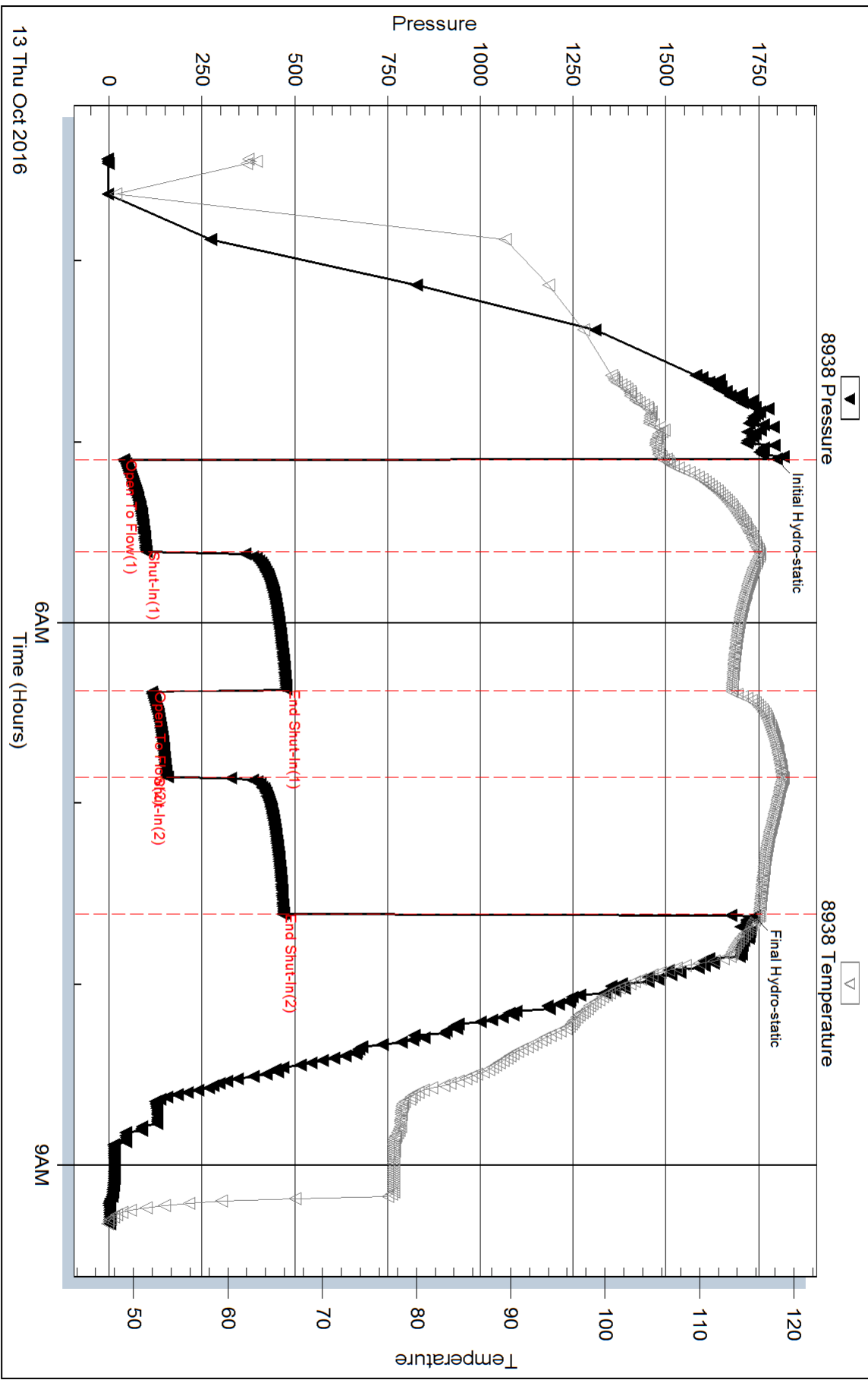
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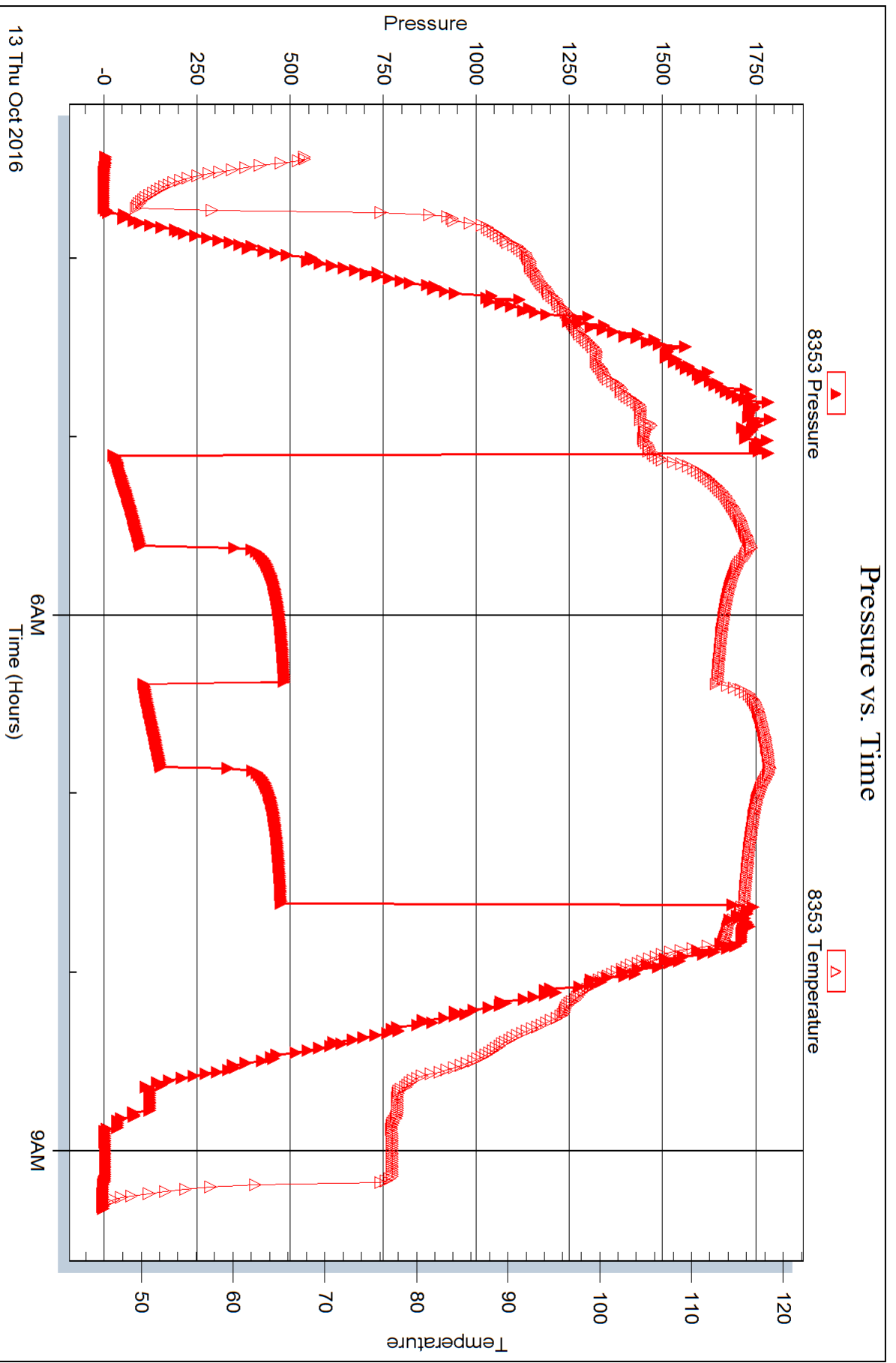
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.13 @ 19:11:00

End Date: 2016.10.14 @ 00:43:45

Job Ticket #: 63488 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:44:01

Downing-Nelson Oil Co
35-13-21 Trego,KS
Gerber #1-35
DST # 2
LKC :H
2016.10.13



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

GENERAL INFORMATION:

Formation: **LKC 'H'**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:00

Time Test Ended: 00:43:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3772.00 ft (KB) To 3805.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3730.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @ Run Depth: 25.93 psig @ 3773.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.13

End Date:

2016.10.14

Last Calib.:

2016.10.14

Start Time: 19:11:15

End Time:

00:43:45

Time On Btm:

2016.10.13 @ 21:02:45

Time Off Btm:

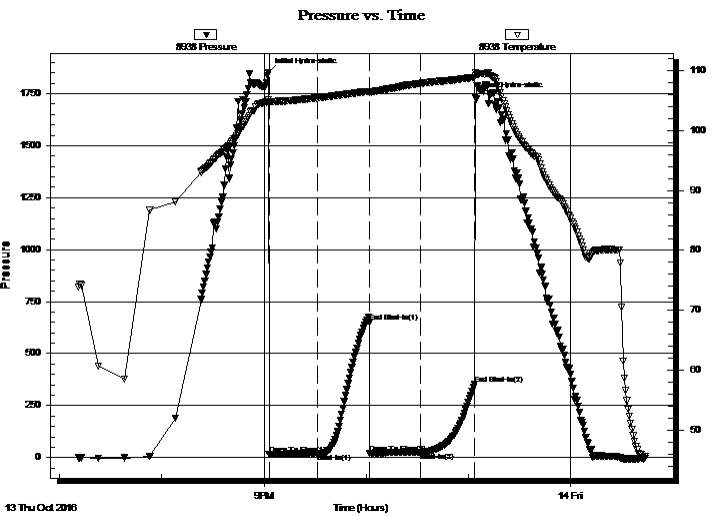
2016.10.13 @ 23:04:00

TEST COMMENT: 30-IF-Very Weak Surface Blow ; built to 1/2"

30-ISI-No Blow

30-FF-No Blow

30-FSI-No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1852.06	105.14	Initial Hydro-static
1	15.62	104.68	Open To Flow (1)
29	20.09	105.44	Shut-In(1)
59	649.92	106.53	End Shut-In(1)
60	21.82	106.33	Open To Flow (2)
90	25.93	107.88	Shut-In(2)
121	354.85	108.85	End Shut-In(2)
122	1736.20	109.69	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud w / oil specs	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

Tool Information

Drill Pipe:	Length: 3739.00 ft	Diameter: 3.80 inches	Volume: 52.45 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	59000.00 lb
Depth to Top Packer:	3772.00 ft			Final	59000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	33.00 ft				
Tool Length:	53.00 ft				
Number of Packers:	1	Diameter: 6.75 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3753.00	
Shut In Tool	5.00			3758.00	
Hydraulic tool	5.00			3763.00	
Packer	5.00			3768.00	20.00 Bottom Of Top Packer
Packer	4.00			3772.00	
Stubb	1.00			3773.00	
Recorder	0.00	8353	Outside	3773.00	
Recorder	0.00	8938	Inside	3773.00	
Perforations	28.00			3801.00	
Bullnose	4.00			3805.00	33.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63488

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.10.13 @ 19:11:00

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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
15.00	Mud w / oil specs	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

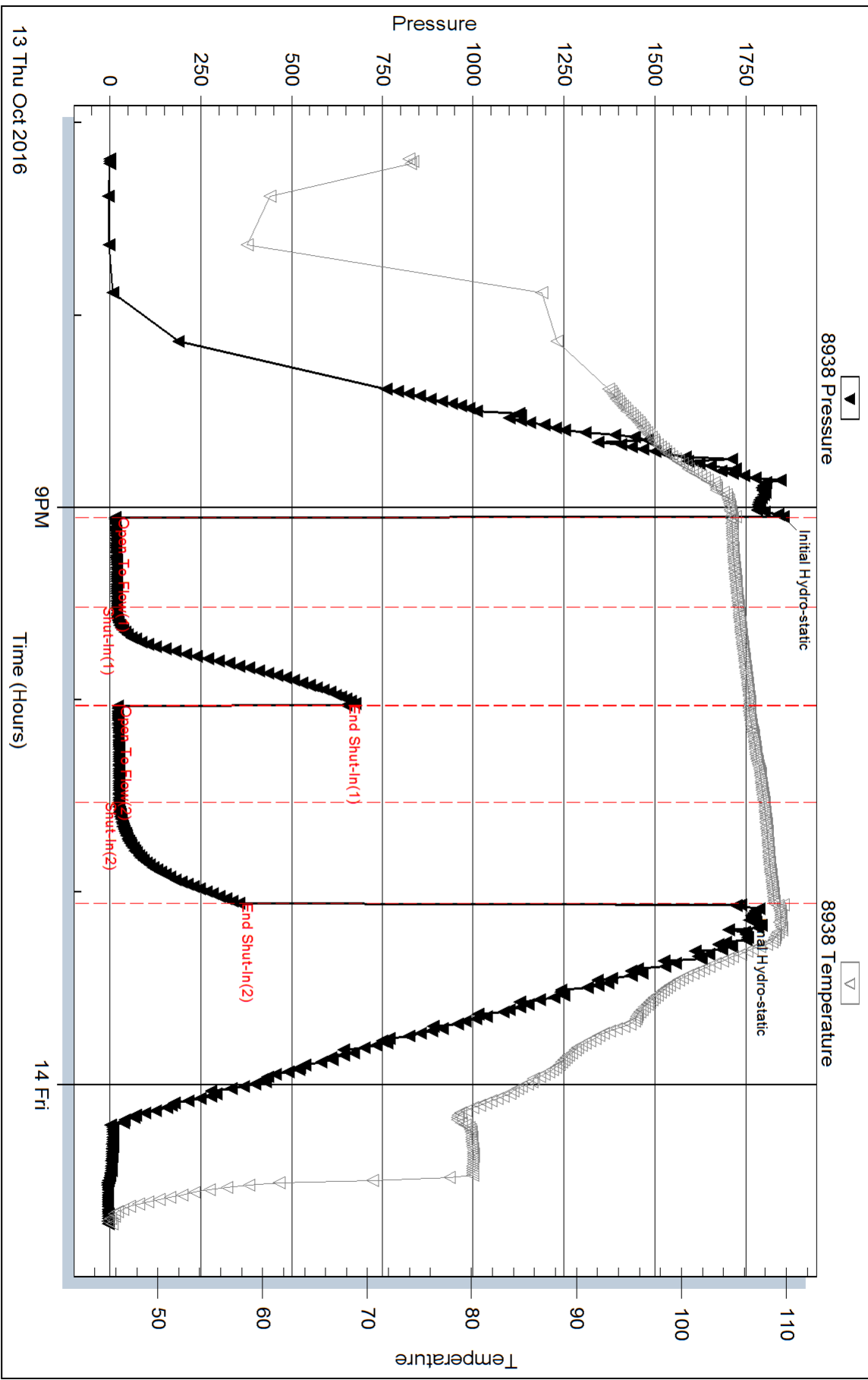
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Gerber #1-35

35-13-21 Trego,KS

Start Date: 2016.10.14 @ 20:54:00

End Date: 2016.10.15 @ 04:14:30

Job Ticket #: 63489 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.10.17 @ 10:43:09



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:44:45

Time Test Ended: 04:14:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Spencer J. Staab

Unit No: 84

Interval: 3993.00 ft (KB) To 4033.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4033.00 ft (KB) (TVD)

2310.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8938

Inside

Press @ Run Depth: 175.74 psig @ 3994.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.10.14

End Date:

2016.10.15

Last Calib.:

2016.10.15

Start Time: 20:54:15

End Time:

04:14:30

Time On Btm:

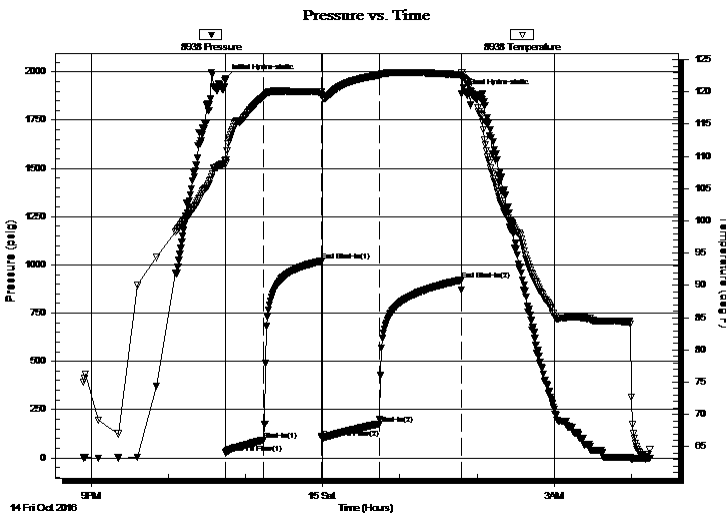
2016.10.14 @ 22:44:30

Time Off Btm:

2016.10.15 @ 01:48:15

TEST COMMENT: 30-IF-BOB in 8 minutes
45-ISI-Fair Blow ; built to 2"
45-FF-BOB in 6 minutes
60-FSI-Fair Blow ; built to 1 1/2"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1963.03	109.35	Initial Hydro-static
1	25.84	108.94	Open To Flow (1)
30	92.53	119.26	Shut-In(1)
75	1018.30	119.99	End Shut-In(1)
75	101.84	119.45	Open To Flow (2)
120	175.74	122.58	Shut-In(2)
184	921.44	122.64	End Shut-In(2)
184	1886.80	122.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GMO 10%G 15%M 75%O	0.97
350.00	GO 15% G 85% O	4.91
0.00	380 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

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

Tool Information

Drill Pipe:	Length: 3961.00 ft	Diameter: 3.80 inches	Volume: 55.56 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 32.00 ft	Diameter: 2.25 inches	Volume: 0.16 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	3993.00 ft			Final	63000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	40.00 ft				
Tool Length:	60.00 ft				
Number of Packers:	1	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			3974.00	
Shut In Tool	5.00			3979.00	
Hydraulic tool	5.00			3984.00	
Packer	5.00			3989.00	20.00 Bottom Of Top Packer
Packer	4.00			3993.00	
Stubb	1.00			3994.00	
Recorder	0.00	8353	Outside	3994.00	
Recorder	0.00	8938	Inside	3994.00	
Perforations	35.00			4029.00	
Perforations	4.00			4033.00	40.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co

35-13-21 Trego,KS

PO Box 1019
Hays, KS 67601

Gerber #1-35

Job Ticket: 63489

DST#: 3

ATTN: Marc Dow ning

Test Start: 2016.10.14 @ 20:54:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

33 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GMO 10%G 15%M 75%O	0.971
350.00	GO 15% G 85% O	4.910
0.00	380 GIP	0.000

Total Length: 440.00 ft Total Volume: 5.881 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

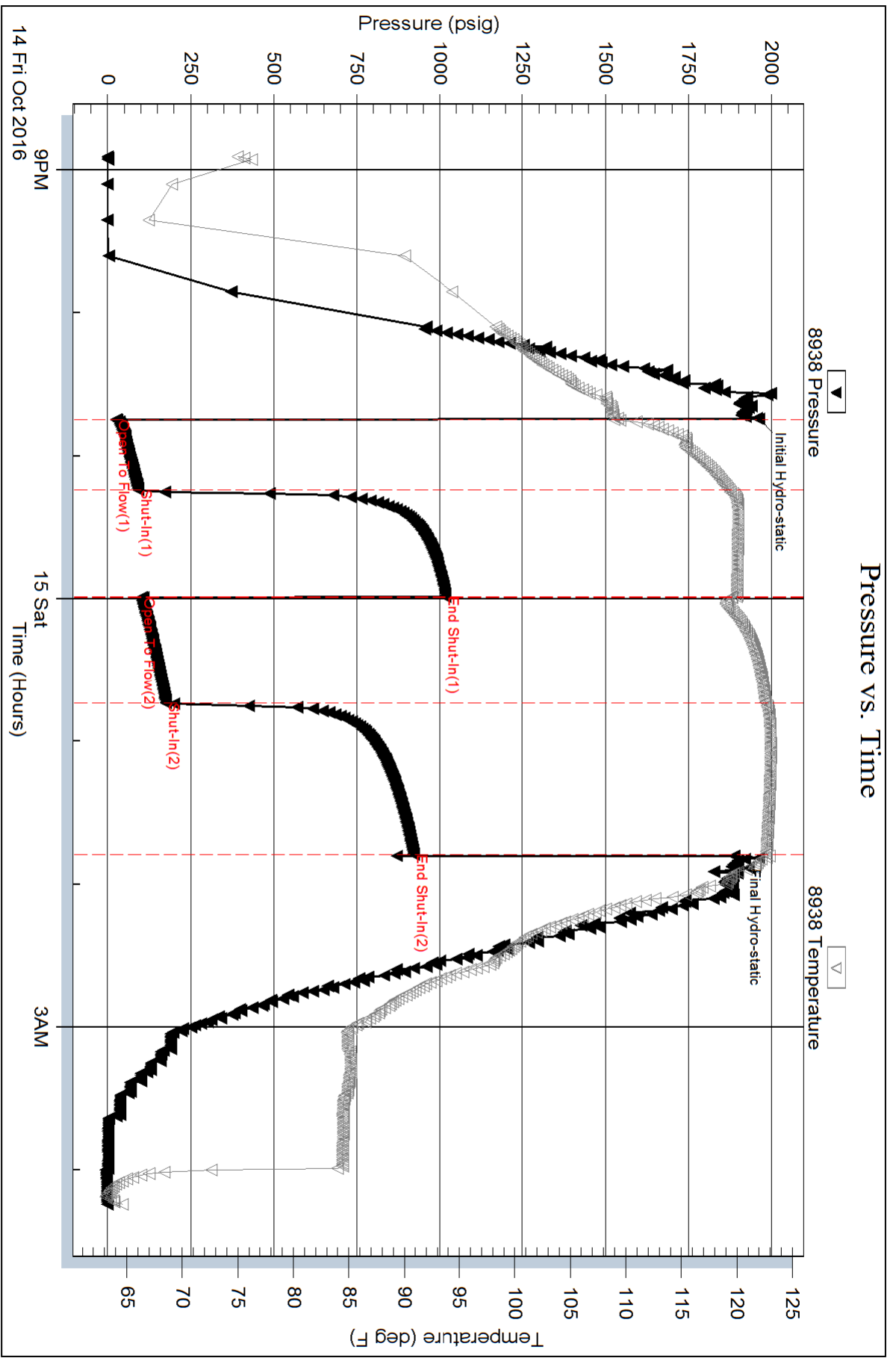
Serial #: 8938

Inside

Dow nging-Nelson Oil Co

Gerber #1-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63489

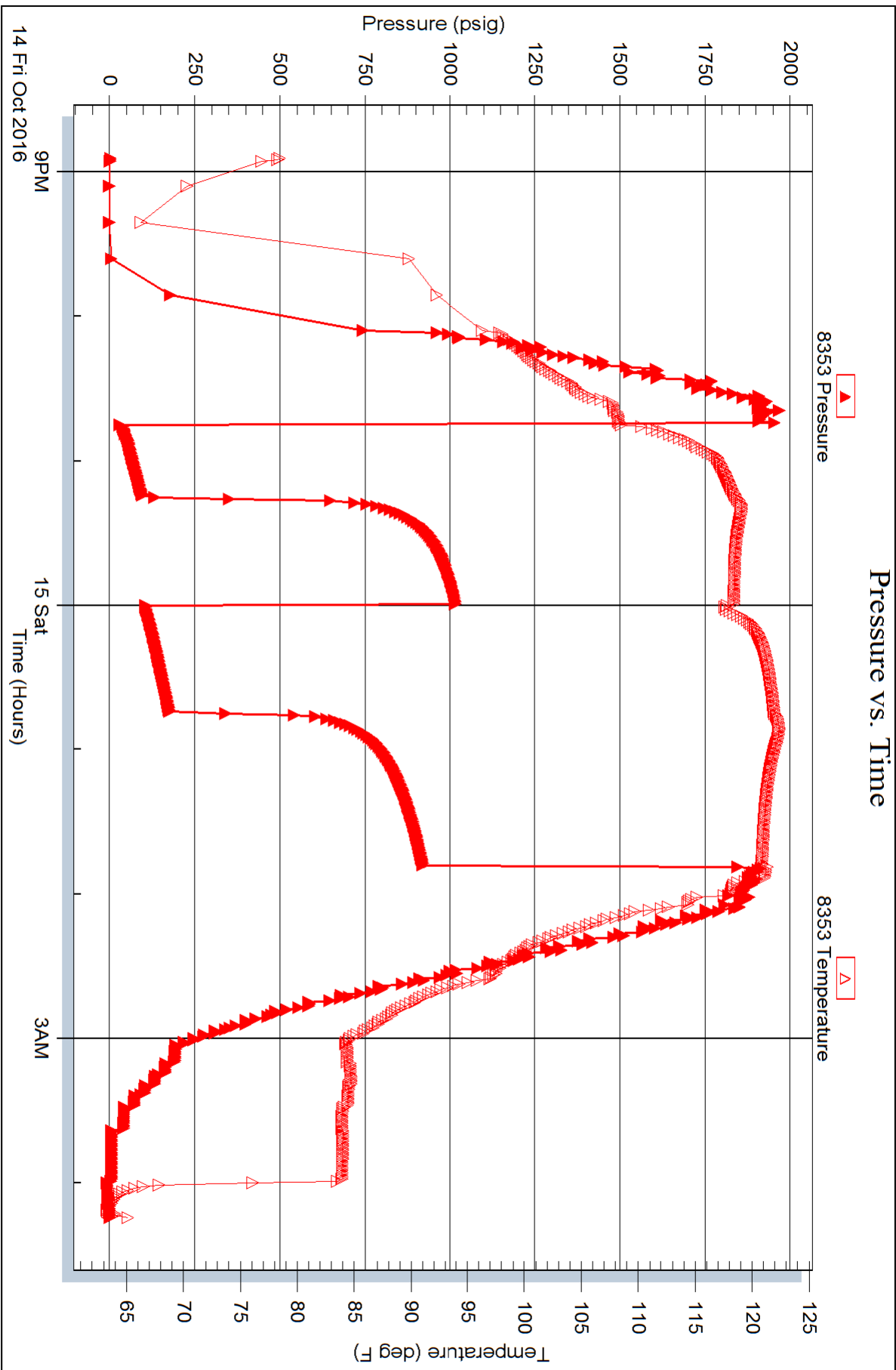
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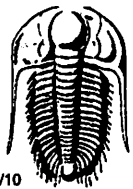
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Outside Dow nting-Nelson Oil Co

Gerber #1-35

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63487

Well Name & No. Gerber #1-35 Test No. 1 Date 10/13/2014
 Company DNOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Drlg #3
 Location: Sec. 35 Twp. 13S Rge. 21W Co. Trego State KS

Interval Tested 3714-3780 Zone Tested LKC 'E'
 Anchor Length 16 Drill Pipe Run 3669 Mud Wt. 9
 Top Packer Depth 3709 Drill Collars Run 32 Vis 46
 Bottom Packer Depth 3714 Wt. Pipe Run - WL 8
 Total Depth 3780 Chlorides 4000 ppm System LCM 2 1/2#

Blow Description IF - BOB in 13 mins
ISI - Weak surface Blow; built to 1/4 inch
FE - Strong Blow; Built to 8 inches
FST - Very weak surface Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>315</u>	<u>Mud</u>		<u>70%</u>	<u>30</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 315 BHT 115 Gravity - API RW .75 @ 48 °F Chlorides 12,000 ppm

(A) Initial Hydrostatic 1797
 (B) First Initial Flow 38
 (C) First Final Flow 100
 (D) Initial Shut-In 475
 (E) Second Initial Flow 115
 (F) Second Final Flow 158
 (G) Final Shut-In 467
 (H) Final Hydrostatic 1736

- Test 1050
- Jars
- Safety Joint
- Circ Sub
- Hourly Standby
- Mileage 56 RT 42
- Sampler
- Straddle
- Shale Packer
- Extra Packer
- Extra Recorder
- Day Standby
- Accessibility
- Sub Total 1092

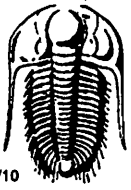
T-On Location 2:20
 T-Started 3:26
 T-Open 5:07
 T-Pulled 7:37
 T-Out 9:20
 Comments _____
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1092
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 30
 Final Shut-In 45

Approved By _____

Our Representative Spencer J. Jacob

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. 63488

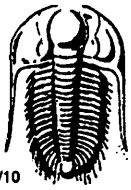
Well Name & No. Gerber # 1-35 Test No. 2 Date 10/13/2016
 Company DUOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Drily #3
 Location: Sec. _____ Twp. _____ Rge. _____ Co. Trego State KS

Interval Tested 3772 - 3805 Zone Tested LKC 'H'
 Anchor Length 33 Drill Pipe Run 3739 Mud Wt. 8.9
 Top Packer Depth 3767 Drill Collars Run 32 Vis 53
 Bottom Packer Depth 3772 Wt. Pipe Run - WL 7.6
 Total Depth 3805 Chlorides 4000 ppm System LCM 2#
 Blow Description IF - Very Weak Surface Blow, built to 1/2 inch
ISI - No Blow
FF - No Blow
FST - No Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mod w/oil specs</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 15 BHT 109⁶ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1852 Test 1050 T-On Location 18:22
 (B) First Initial Flow 15 Jars _____ T-Started 19:11
 (C) First Final Flow 20 Safety Joint _____ T-Open 21:03
 (D) Initial Shut-In 650 Circ Sub _____ T-Pulled 23:04
 (E) Second Initial Flow 21 Hourly Standby _____ T-Out 00:44 10/14/2016
 (F) Second Final Flow 25 Mileage 56 RT ⁴² Comments _____
 (G) Final Shut-In 355 Sampler _____
 (H) Final Hydrostatic 1736 Straddle _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Initial Open 30 Extra Packer _____
 Initial Shut-In 30 Extra Recorder _____
 Final Flow 30 Day Standby _____
 Final Shut-In 30 Accessibility _____
 Sub Total 1092 Total 1092 MP/DST Disc't _____

Approved By _____ Our Representative Spencer J. Stahl
 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.
 Thank you!



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63489

Well Name & No. Gerber # 1-35 Test No. 3 Date 10/14/2016
 Company DNOCT Elevation 2318 KB 2310 GL
 Address PO BOX 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing / Ron Nelson Rig Discovery Rig #3
 Location: Sec. 35 Twp. 13 Rge. 21 Co. Trego State KS

Interval Tested 3993 - 4033 Zone Tested Macmaston
 Anchor Length 40 Drill Pipe Run 3961 Mud Wt. 9.2
 Top Packer Depth 3988 Drill Collars Run 32 Vis 49
 Bottom Packer Depth 3993 Wt. Pipe Run - WL 8
 Total Depth 4033 Chlorides 4500 ppm System LCM 2#

Blow Description IE - BOB in 8 minutes
ISI - Fair Blow, built to 2 inches
FF - BOB in 6 minutes
FSI - Fair Blow, built to 1 1/2 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>380</u>	<u>GIP</u>				
<u>350</u>	<u>GO</u>	<u>15</u>	<u>85</u>		
<u>90</u>	<u>GMO</u>	<u>10</u>	<u>75</u>	<u>15</u>	

Rec Total 440 BHT 122 Gravity 33 API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic 1963 Test 1150 T-On Location 20:20
 (B) First Initial Flow 25 Jars _____ T-Started 20:54
 (C) First Final Flow 92 Safety Joint _____ T-Open 22:45
 (D) Initial Shut-In 1018 Circ Sub _____ T-Pulled 01:45 10/15/2016
 (E) Second Initial Flow 101 Hourly Standby _____ T-Out 04:15
 (F) Second Final Flow 175 Mileage 56 RT ⁴² Comments _____
 (G) Final Shut-In 921 Sampler _____
 (H) Final Hydrostatic 1886 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 1192
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 60 Sub Total 1192

Approved By _____ Our Representative Spencer J. Stad
 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.
Thank you!