

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHNELLER 2-25
Doc ID	1410574

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Denisty Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHNELLER 2-25
Doc ID	1410574

Tops

Name	Top	Datum
Top Anhydrite	1660'	+666
Base Anhydrite	1702'	+624
Topeka	3338'	-1012
Heebner	3573'	-1247
Toronto	3592'	-1266
LKC	3611'	-1285
BKC	3864'	-1538
Marmaton	3922'	-1596
Cherokee Shale	3961'	-1635
Penn Sand	3992'	-1666
Arbuckle	4008'	-1682



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.20 @ 15:44:00

End Date: 2018.05.20 @ 20:35:00

Job Ticket #: 64012 DST #: 1

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

Printed: 2018.05.25 @ 08:29:03



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64012

DST#: 1

ATTN: Marc Downing

Test Start: 2018.05.20 @ 15:44:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 20:35:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3630.00 ft (KB) To 3653.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3653.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653 Inside

Press@RunDepth: psig @ 3631.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.20 End Date: 2018.05.20

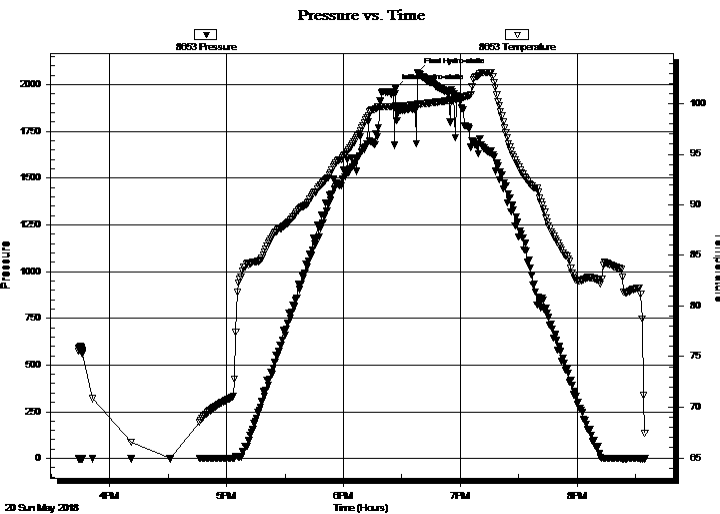
Last Calib.: 2018.05.20

Start Time: 15:44:01 End Time: 20:35:00

Time On Btm: 2018.05.20 @ 18:26:40

Time Off Btm: 2018.05.20 @ 18:38:00

TEST COMMENT: IF-15- Weak surface blow ; Flushed tool
 IS-15- No blow back
 FF-15- Weak surface blow ; Flushed tool; PULLED TEST



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1976.30	99.74	Initial Hydro-static
12	2065.31	99.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud 100%M	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64012

DST#: 1

ATTN: Marc Downing

Test Start: 2018.05.20 @ 15:44:00

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.82 inches	Volume: 50.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 58000.00 lb
			<u>Total Volume: 50.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3630.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3607.00	
Shut In Tool	5.00			3612.00	
Hydraulic tool	5.00			3617.00	
EM Tool	4.00			3621.00	
Packer	5.00			3626.00	24.00 Bottom Of Top Packer
Packer	4.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	8653	Inside	3631.00	
Recorder	0.00	8737	Outside	3631.00	
Perforations	19.00			3650.00	
Bullnose	3.00			3653.00	23.00 Bottom Packers & Anchor

Total Tool Length: 47.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64012

DST#: 1

ATTN: Marc Downing

Test Start: 2018.05.20 @ 15:44:00

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: 62.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1.00	Mud 100%M	0.005

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#

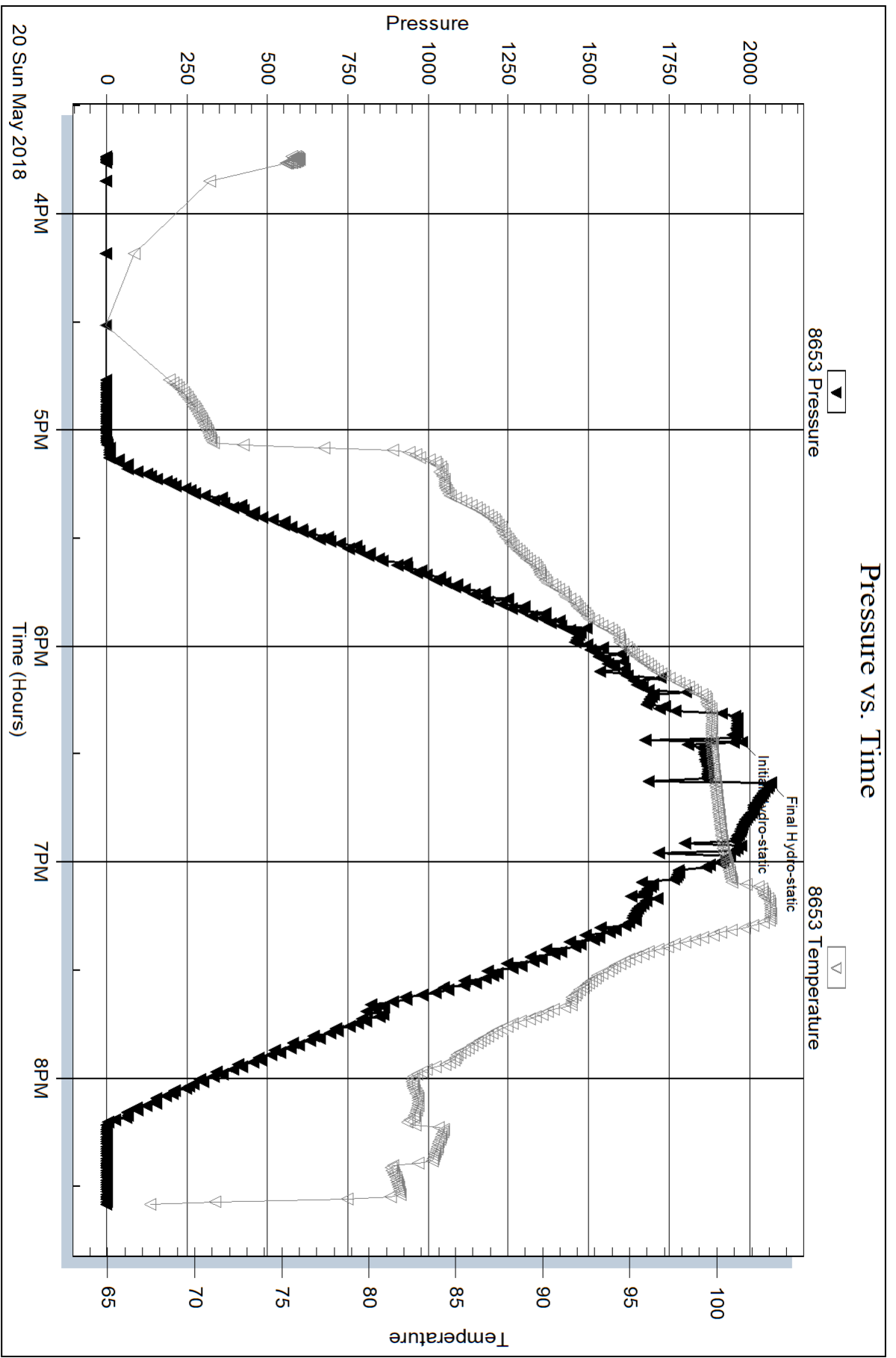
Serial #: 8653

Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 64012

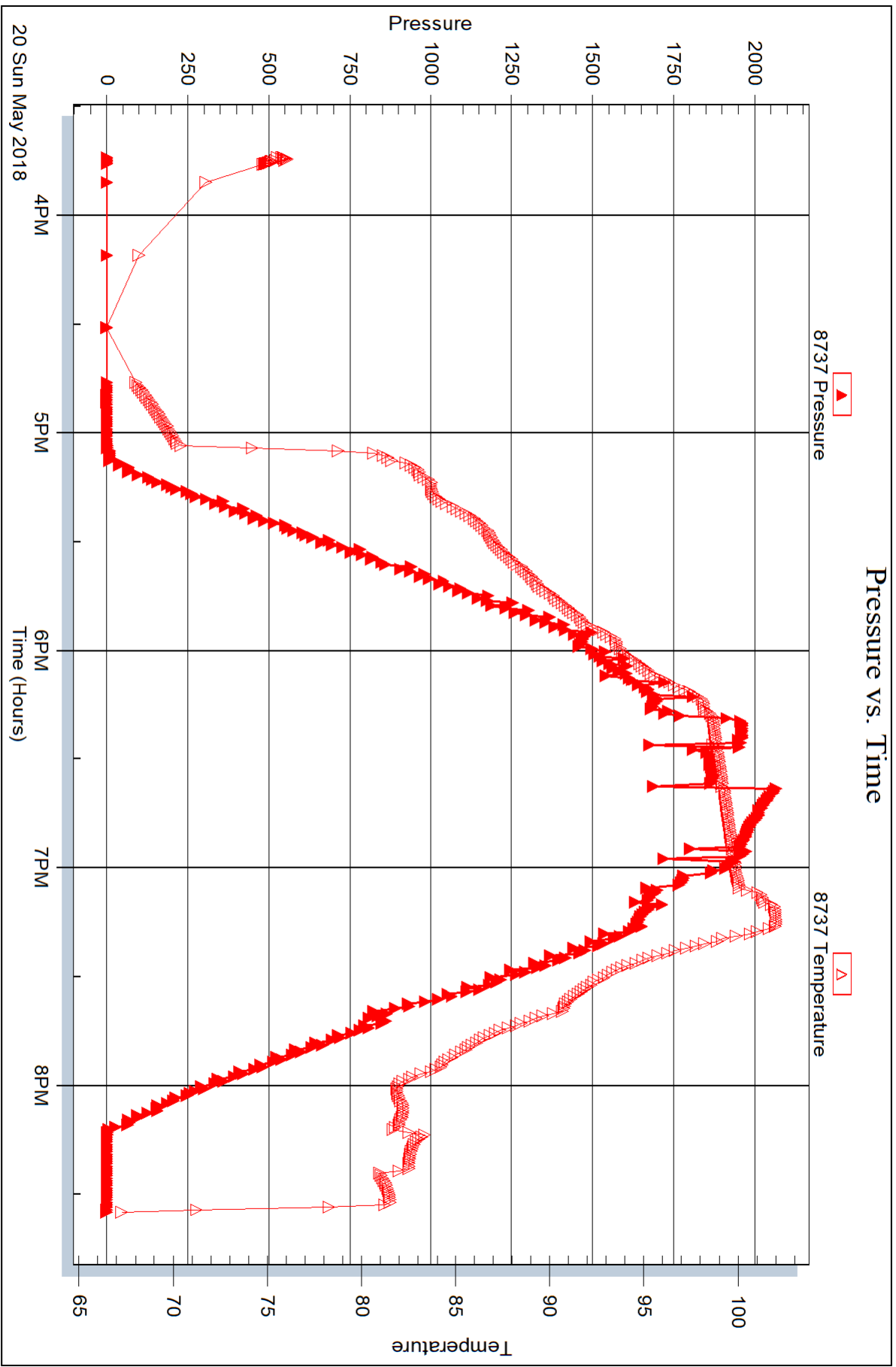
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Serial #: 8737

Outside Dow n ing Nelson Oil Co

Schneller #2-25

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.20 @ 20:50:00

End Date: 2018.05.21 @ 03:01:09

Job Ticket #: 64013 DST #: 2

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

Printed: 2018.05.25 @ 08:28:40

Downing Nelson Oil Co
25-13s-21w Trego,KS
Schneller #2-25
DST # 2
LKC "C"
2018.05.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64013

DST#: 2

ATTN: Marc Downing

Test Start: 2018.05.20 @ 20:50:00

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:08:10

Time Test Ended: 03:01:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3630.00 ft (KB) To 3653.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3653.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 58.00 psig @ 3631.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.20

End Date:

2018.05.21

Last Calib.: 2018.05.21

Start Time: 20:50:01

End Time:

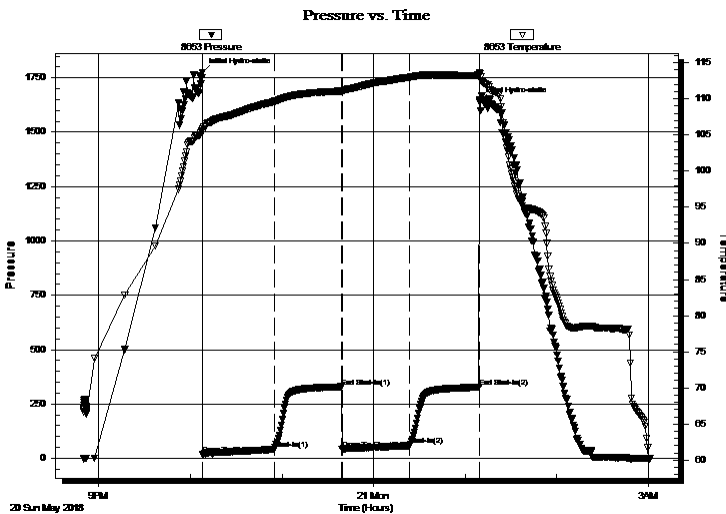
03:01:10

Time On Btm: 2018.05.20 @ 22:08:00

Time Off Btm: 2018.05.21 @ 01:09:20

TEST COMMENT: IF-45- Strong blow ; BOB in 31 min; built to 14"
 IS-45- Slight blow back; built to 9/10"
 FF-45- Strong blow ; BOB in 40 min; built to 11"
 FS-45- Slight blow back; built to 4/10"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.81	105.86	Initial Hydro-static
1	18.49	105.48	Open To Flow (1)
47	43.05	109.65	Shut-In(1)
91	328.44	111.09	End Shut-In(1)
92	42.46	110.89	Open To Flow (2)
136	58.00	112.99	Shut-In(2)
181	326.10	113.26	End Shut-In(2)
182	1640.46	113.66	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
126.00	MW 20%W 80%M	1.49
32.00	SMCO 98%O 2%M	0.45
32.00	SOCM 2%O 98%M	0.45

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64013

DST#: 2

ATTN: Marc Downing

Test Start: 2018.05.20 @ 20:50:00

Tool Information

Drill Pipe:	Length: 3583.00 ft	Diameter: 3.82 inches	Volume: 50.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 58000.00 lb
			<u>Total Volume: 50.95 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3630.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	23.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3611.00	
Shut In Tool	5.00			3616.00	
Hydraulic tool	5.00			3621.00	
Packer	5.00			3626.00	20.00 Bottom Of Top Packer
Packer	4.00			3630.00	
Stubb	1.00			3631.00	
Recorder	0.00	8653	Inside	3631.00	
Recorder	0.00	8737	Outside	3631.00	
Perforations	19.00			3650.00	
Bullnose	3.00			3653.00	23.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64013

DST#: 2

ATTN: Marc Downing

Test Start: 2018.05.20 @ 20:50:00

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:

31000 ppm

Viscosity: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
126.00	MW 20%W 80%M	1.490
32.00	SMCO 98%O 2%M	0.454
32.00	SOCM 2%O 98%M	0.454

Total Length: 190.00 ft

Total Volume: 2.398 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#
63' GIP

Serial #: 8653

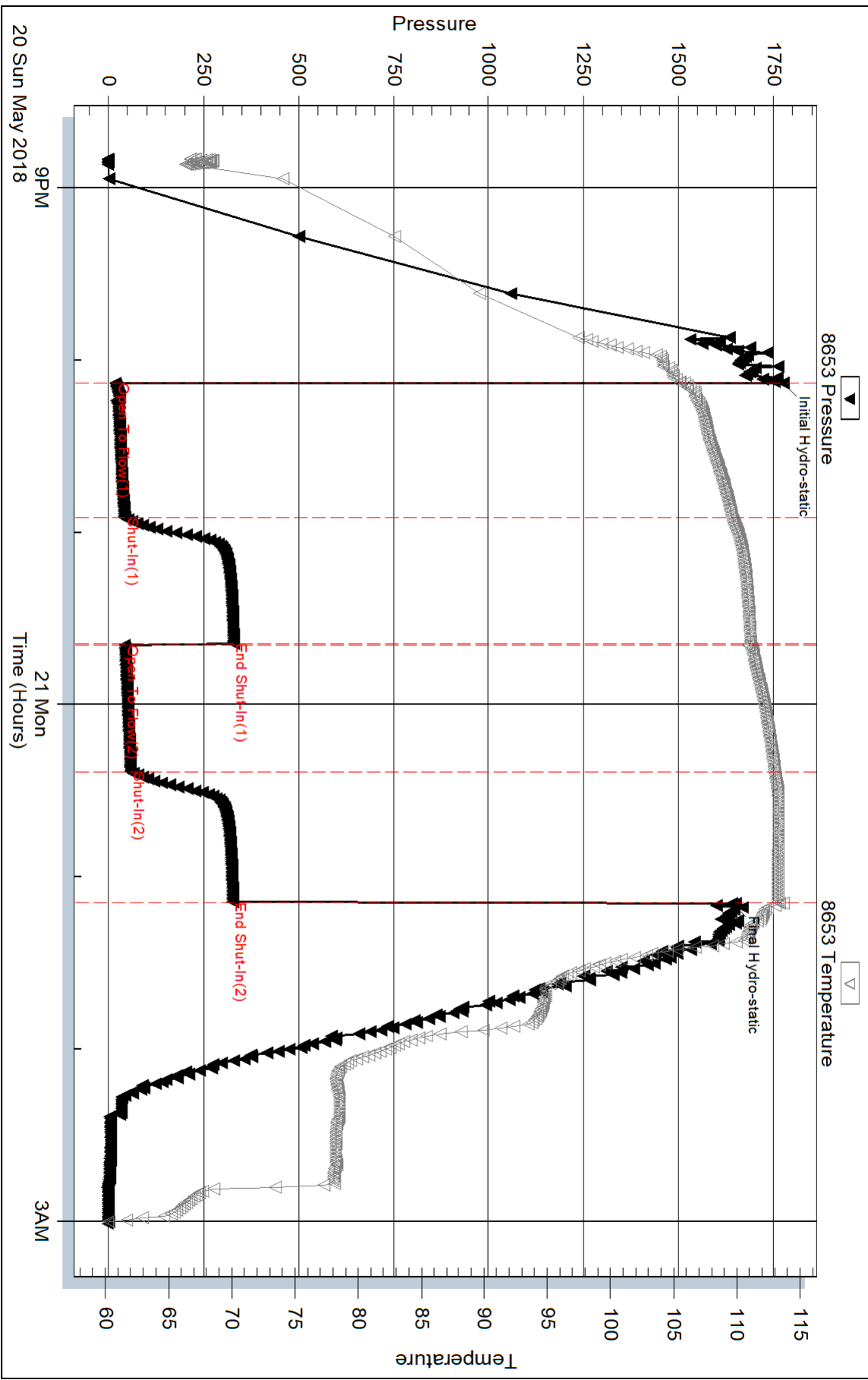
Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 64013

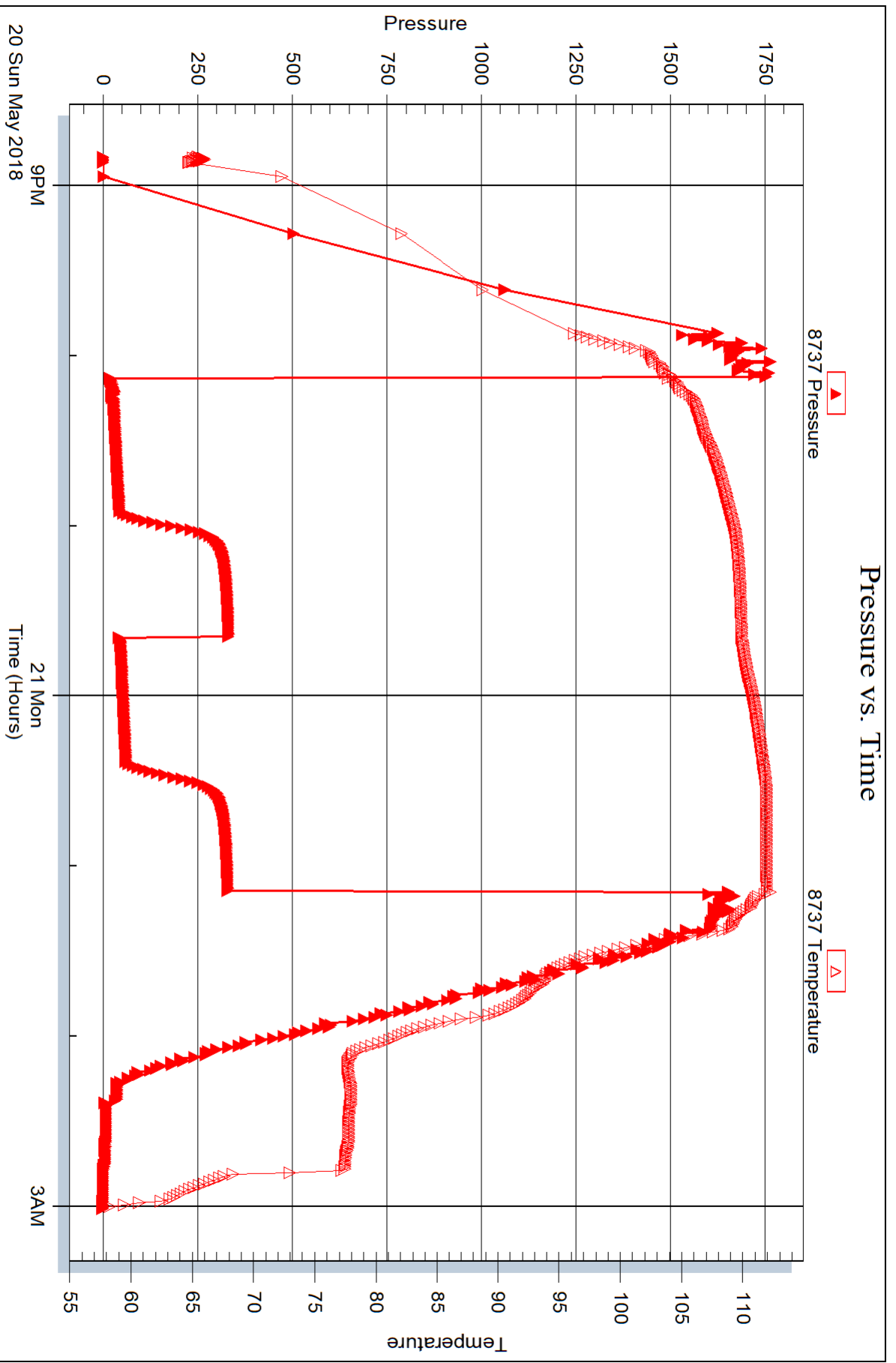
Printed: 2018.05.25 @ 08:28:41

Serial #: 8737

Outside Dow nting Nelson Oil Co

Schneller #2-25

DST Test Number: 2





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

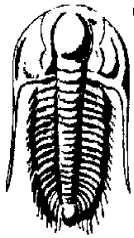
Start Date: 2018.05.21 @ 09:57:00

End Date: 2018.05.21 @ 16:40:20

Job Ticket #: 64014 DST #: 3

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

Printed: 2018.05.25 @ 08:28:16



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64014

DST#: 3

ATTN: Marc Downing

Test Start: 2018.05.21 @ 09:57:00

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:40:50

Time Test Ended: 16:40:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3670.00 ft (KB) To 3686.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3686.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 77.84 psig @ 3671.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.21

End Date:

2018.05.21

Last Calib.:

2018.05.21

Start Time: 09:57:01

End Time:

16:40:20

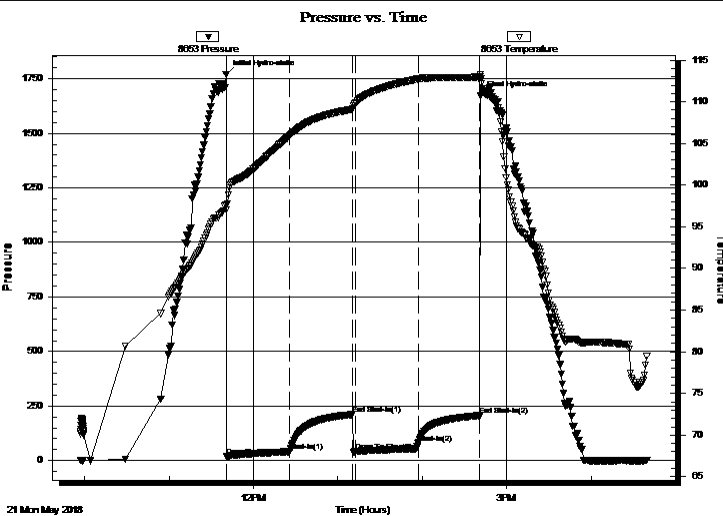
Time On Btm:

2018.05.21 @ 11:40:40

Time Off Btm:

2018.05.21 @ 14:41:20

TEST COMMENT: IF-45- Good blow ; Built to 6 1/2"
 IS-45- Weak blow back; Built to 1/2"
 FF-45- Strong blow ; BOB in 7 min; Built to 24"
 FSI-45- Weak blow back; Built to 7/10"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1770.14	97.64	Initial Hydro-static
1	19.33	97.02	Open To Flow (1)
46	44.04	105.94	Shut-In(1)
90	210.92	109.12	End Shut-In(1)
92	41.35	109.85	Open To Flow (2)
137	77.84	112.74	Shut-In(2)
181	206.05	112.96	End Shut-In(2)
181	1671.15	113.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	SGOCM 2%G 2%O 96%M	1.05
63.00	MW 70%W 30%M	0.89

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64014

DST#: 3

ATTN: Marc Downing

Test Start: 2018.05.21 @ 09:57:00

Tool Information

Drill Pipe:	Length: 3642.00 ft	Diameter: 3.82 inches	Volume: 51.63 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 59000.00 lb
			<u>Total Volume: 51.79 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3670.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3651.00	
Shut In Tool	5.00			3656.00	
Hydraulic tool	5.00			3661.00	
Packer	5.00			3666.00	20.00 Bottom Of Top Packer
Packer	4.00			3670.00	
Stubb	1.00			3671.00	
Recorder	0.00	8653	Inside	3671.00	
Recorder	0.00	8737	Outside	3671.00	
Perforations	12.00			3683.00	
Bullnose	3.00			3686.00	16.00 Bottom Packers & Anchor
Total Tool Length:	36.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64014

DST#: 3

ATTN: Marc Downing

Test Start: 2018.05.21 @ 09:57:00

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:

8000 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.75 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
95.00	SGOCM 2%G 2%O 96%M	1.050
63.00	MW 70%W 30%M	0.893

Total Length: 158.00 ft

Total Volume: 1.943 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#
441' GIP

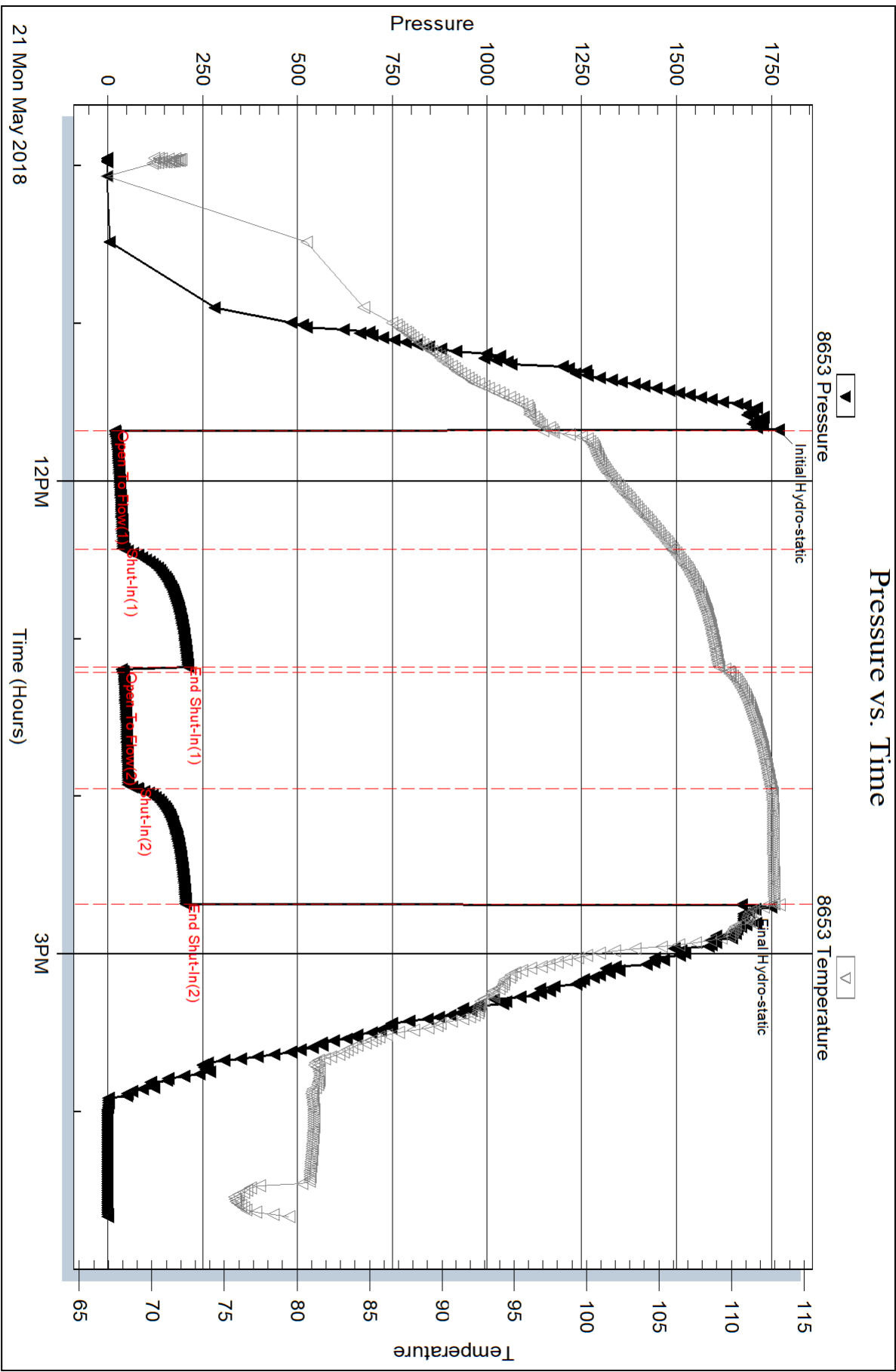
Serial #: 8653

Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 64014

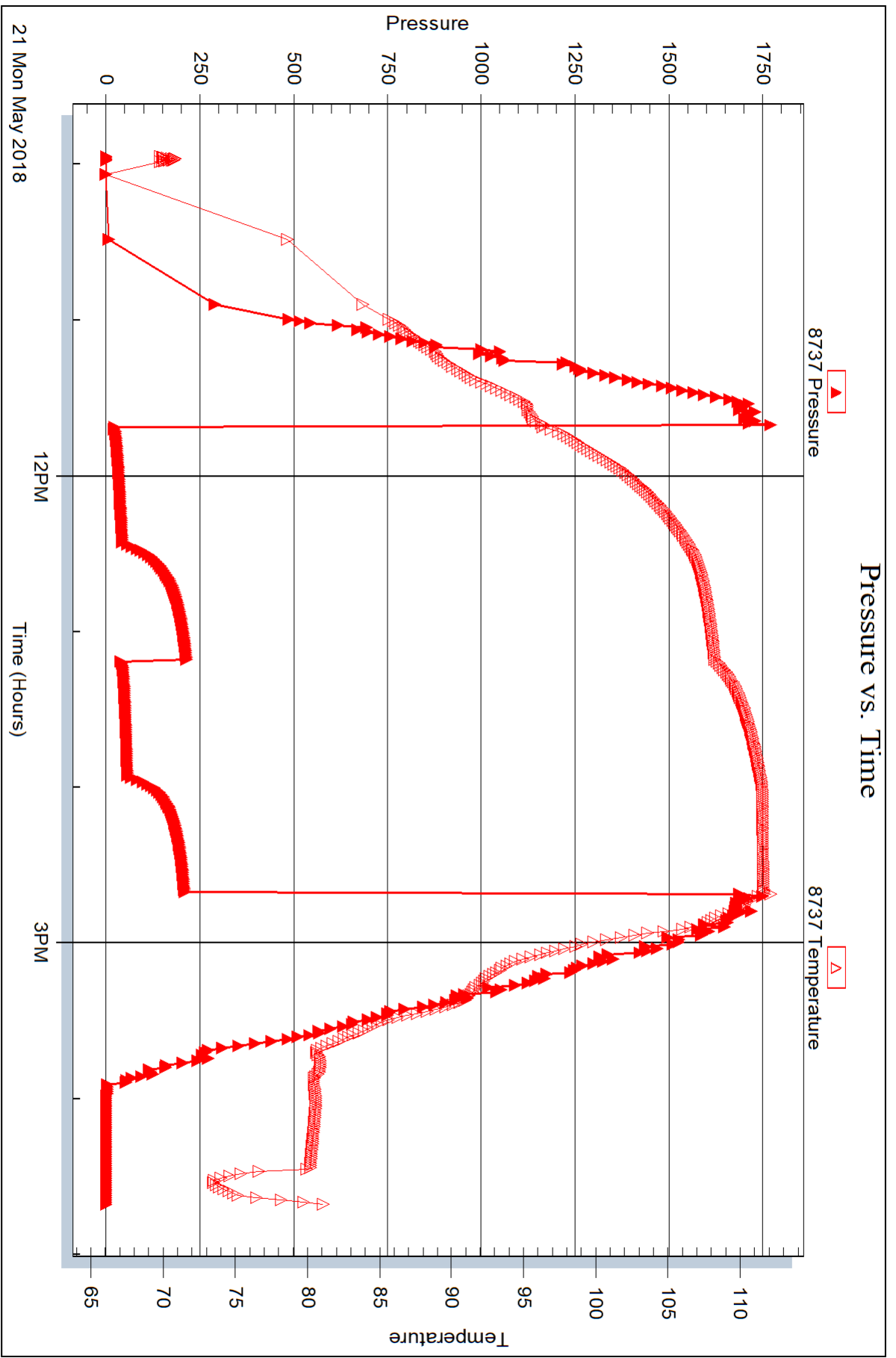
Printed: 2018.05.25 @ 08:28:17

Serial #: 8737

Outside Dow n/ing Nelson Oil Co

Schneller #2-25

DST Test Number: 3



21 Mon May 2018

Trilobite Testing, Inc

Ref. No: 64014

Printed: 2018.05.25 @ 08:28:18



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.22 @ 06:30:00

End Date: 2018.05.22 @ 13:01:39

Job Ticket #: 64015 DST #: 4

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

Printed: 2018.05.25 @ 08:27:51



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64015

DST#: 4

ATTN: Marc Downing

Test Start: 2018.05.22 @ 06:30:00

GENERAL INFORMATION:

Formation: **LKC "H - I"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:31:20

Time Test Ended: 13:01:39

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3729.00 ft (KB) To 3784.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3784.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 51.62 psig @ 3732.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.22 End Date: 2018.05.22

Last Calib.: 2018.05.22

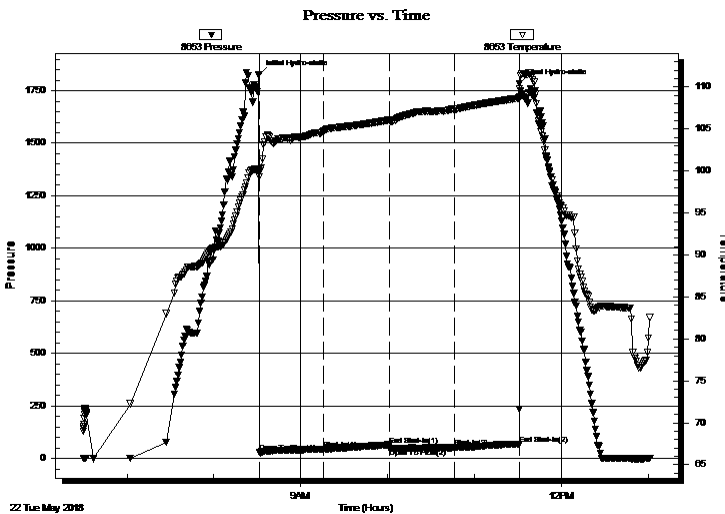
Start Time: 06:30:01 End Time: 13:01:40

Time On Btm: 2018.05.22 @ 08:31:10

Time Off Btm: 2018.05.22 @ 11:31:09

TEST COMMENT: IF-45- Fair blow ; built to 4"
IS-45- No blow back
FF- Weak blow ; built to 2 1/2"
FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1827.29	100.30	Initial Hydro-static
1	29.38	99.29	Open To Flow (1)
45	43.65	104.73	Shut-In(1)
90	64.10	106.07	End Shut-In(1)
91	48.47	106.03	Open To Flow (2)
135	51.62	107.36	Shut-In(2)
180	68.93	108.69	End Shut-In(2)
180	1783.76	109.80	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	VSOCM 1%O 99%M	0.77

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64015

DST#: 4

ATTN: Marc Downing

Test Start: 2018.05.22 @ 06:30:00

Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.82 inches	Volume: 52.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 61000.00 lb
			<u>Total Volume: 52.68 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3729.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	75.00 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			3710.00	
Shut In Tool	5.00			3715.00	
Hydraulic tool	5.00			3720.00	
Packer	5.00			3725.00	20.00 Bottom Of Top Packer
Packer	4.00			3729.00	
Stubb	1.00			3730.00	
Change Over Sub	2.00			3732.00	
Recorder	0.00	8653	Inside	3732.00	
Recorder	0.00	8737	Outside	3732.00	
Drill Pipe	32.00			3764.00	
Change Over Sub	2.00			3766.00	
Perforations	15.00			3781.00	
Bullnose	3.00			3784.00	55.00 Bottom Packers & Anchor

Total Tool Length: 75.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64015

DST#: 4

ATTN: Marc Downing

Test Start: 2018.05.22 @ 06:30:00

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: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
75.00	VSOCM 1%O 99%M	0.767

Total Length: 75.00 ft Total Volume: 0.767 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

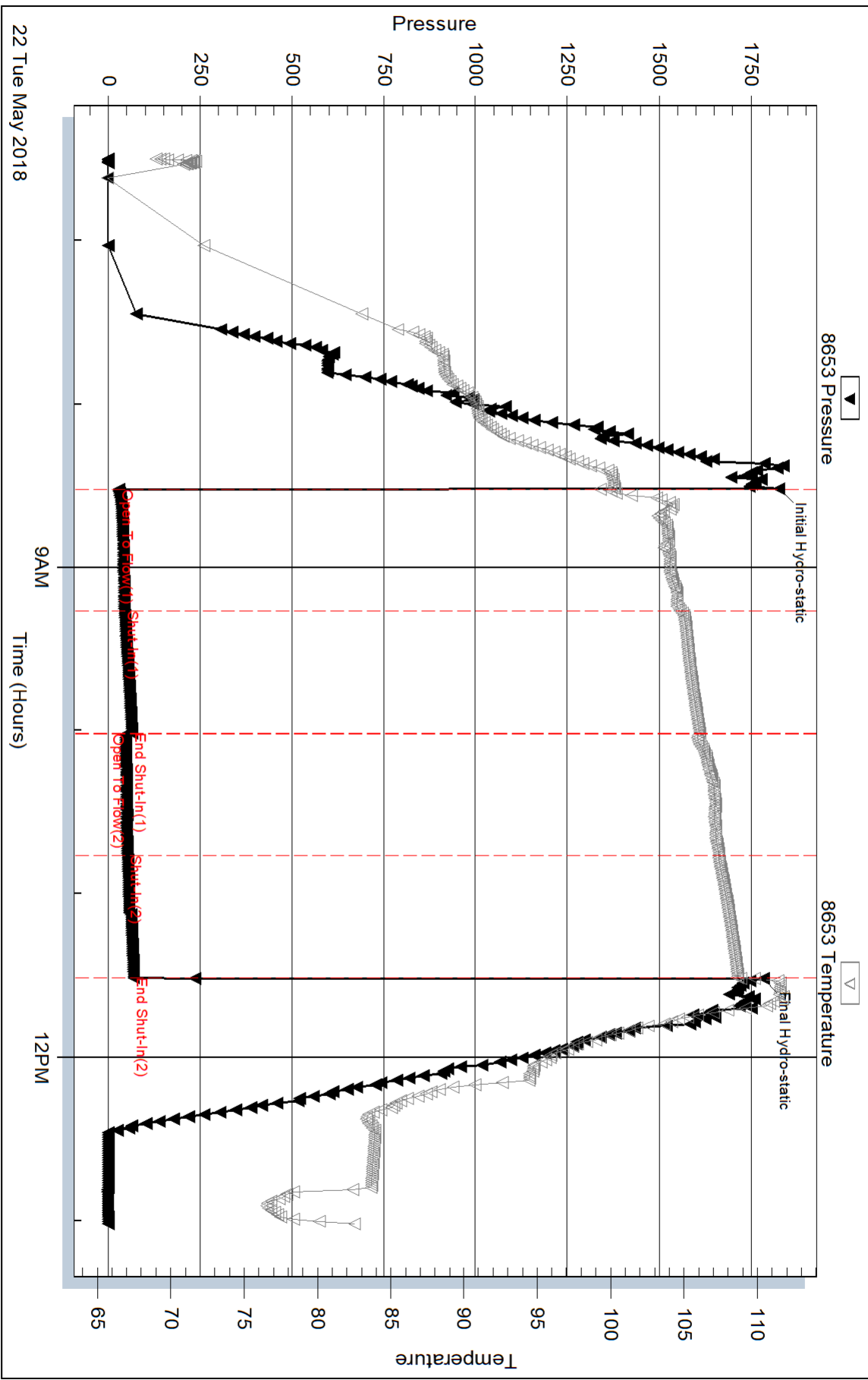
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#

Pressure vs. Time



22 Tue May 2018

9AM Time (Hours)

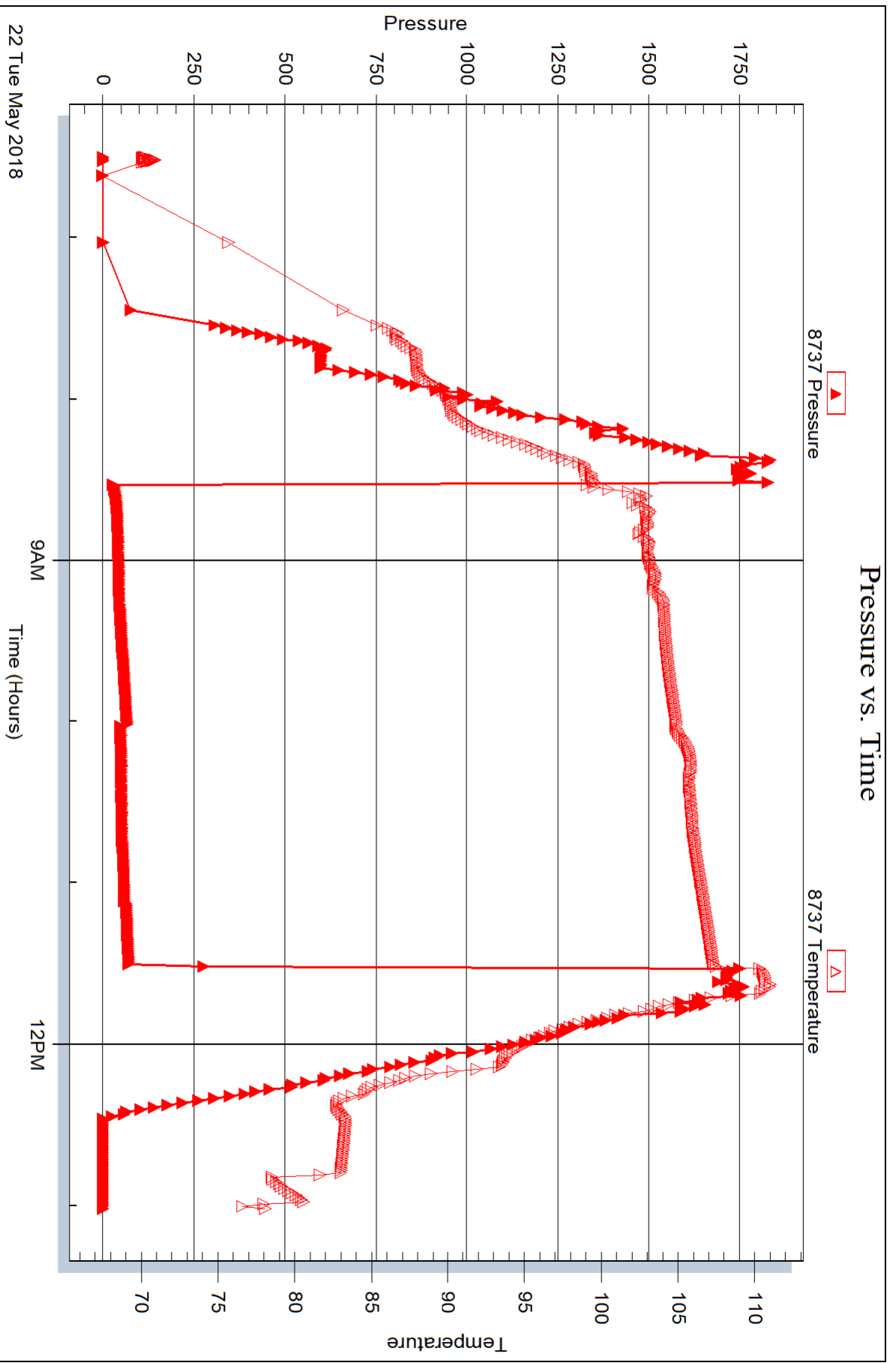
12PM

Serial #: 8737

Outside Dow ning Nelson Oil Co

Schneller #2-25

DST Test Number: 4



Trilobite Testing, Inc

Ref. No: 64015

Printed: 2018.05.25 @ 08:27:52



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.22 @ 19:21:00

End Date: 2018.05.23 @ 01:36:37

Job Ticket #: 64016 DST #: 5

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

Printed: 2018.05.25 @ 08:27:24



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64016

DST#: 5

ATTN: Marc Downing

Test Start: 2018.05.22 @ 19:21:00

GENERAL INFORMATION:

Formation: **LKC "J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:01:47

Time Test Ended: 01:36:37

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3780.00 ft (KB) To 3805.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3805.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 39.15 psig @ 3781.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.22

End Date:

2018.05.23

Last Calib.:

2018.05.22

Start Time: 19:21:23

End Time:

01:36:37

Time On Btm:

2018.05.22 @ 21:01:37

Time Off Btm:

2018.05.23 @ 00:00:07

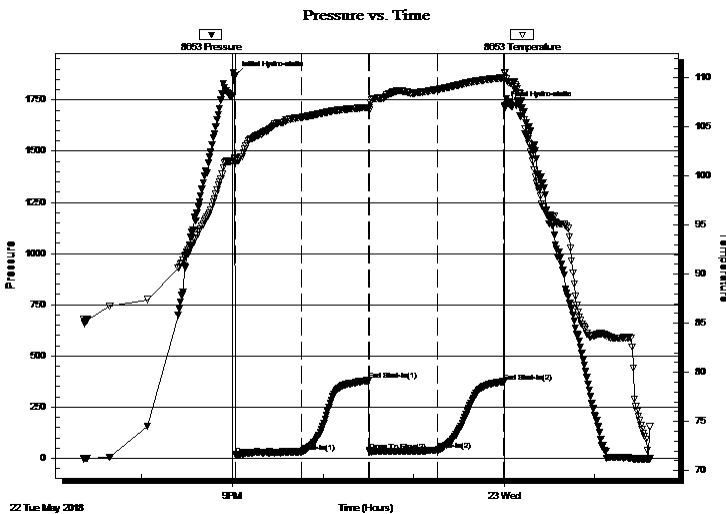
TEST COMMENT: IF-45- Weak Blow ; Built to 3"

ISI-45- No blow back

FF-45- Weak Blow ; Built to 2 1/4"

FSI-45- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1869.78	101.85	Initial Hydro-static
1	16.96	101.38	Open To Flow (1)
45	30.57	105.99	Shut-In(1)
89	379.33	107.00	End Shut-In(1)
90	34.84	106.97	Open To Flow (2)
135	39.15	108.82	Shut-In(2)
179	374.19	110.01	End Shut-In(2)
179	1722.74	110.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	VSOCM 1%O 99%M	0.60

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64016

DST#: 5

ATTN: Marc Downing

Test Start: 2018.05.22 @ 19:21:00

Tool Information

Drill Pipe:	Length: 3770.00 ft	Diameter: 3.82 inches	Volume: 53.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 53.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	42.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3780.00 ft			Final 60000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	45.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3761.00	
Shut In Tool	5.00			3766.00	
Hydraulic tool	5.00			3771.00	
Packer	5.00			3776.00	20.00 Bottom Of Top Packer
Packer	4.00			3780.00	
Stubb	1.00			3781.00	
Recorder	0.00	8653	Inside	3781.00	
Recorder	0.00	8646	Outside	3781.00	
Perforations	21.00			3802.00	
Bullnose	3.00			3805.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64016

DST#: 5

ATTN: Marc Downing

Test Start: 2018.05.22 @ 19:21:00

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: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	VSOCM 1%O 99%M	0.597

Total Length: 63.00 ft Total Volume: 0.597 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#

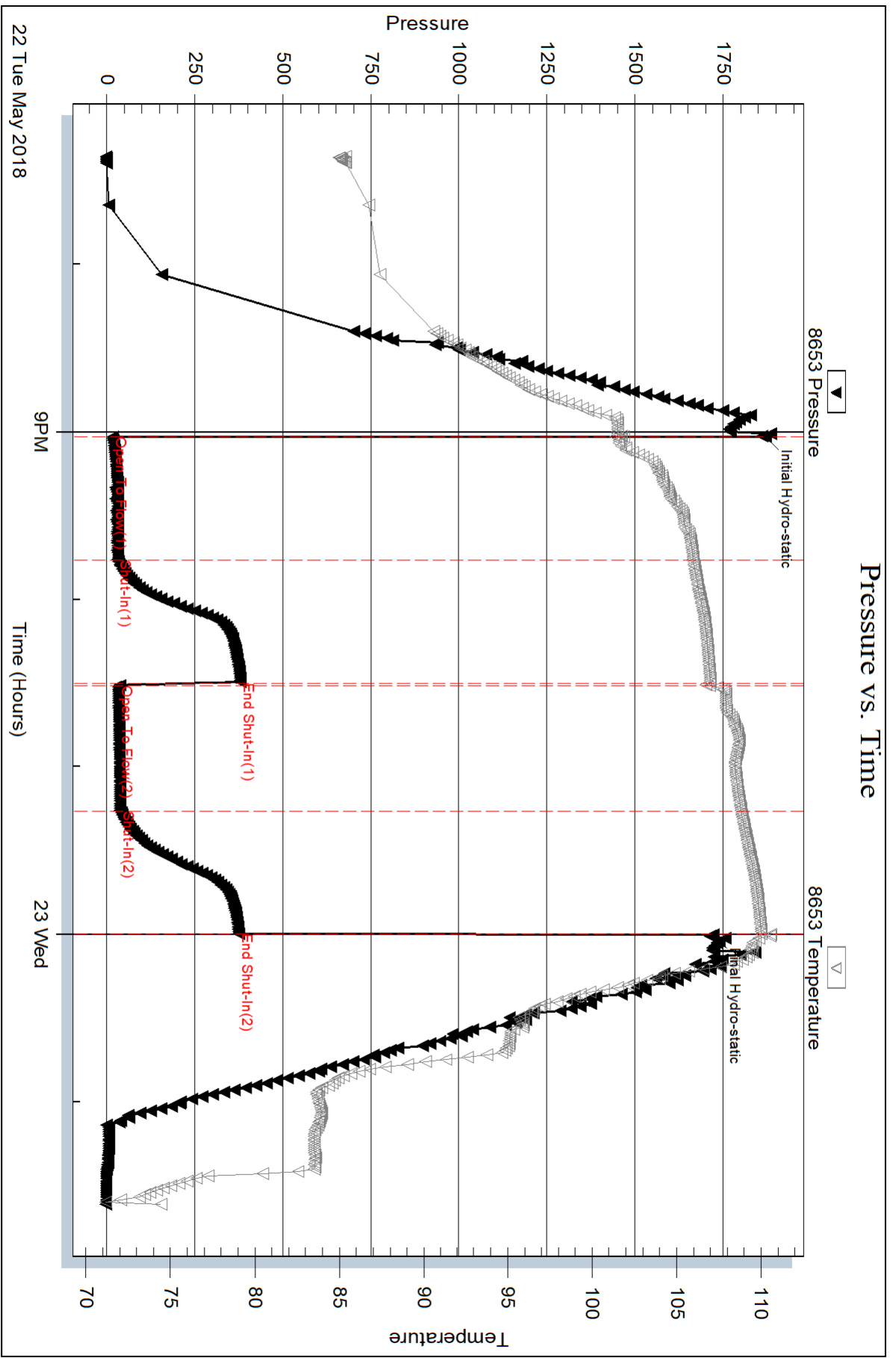
Serial #: 8653

Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 64016

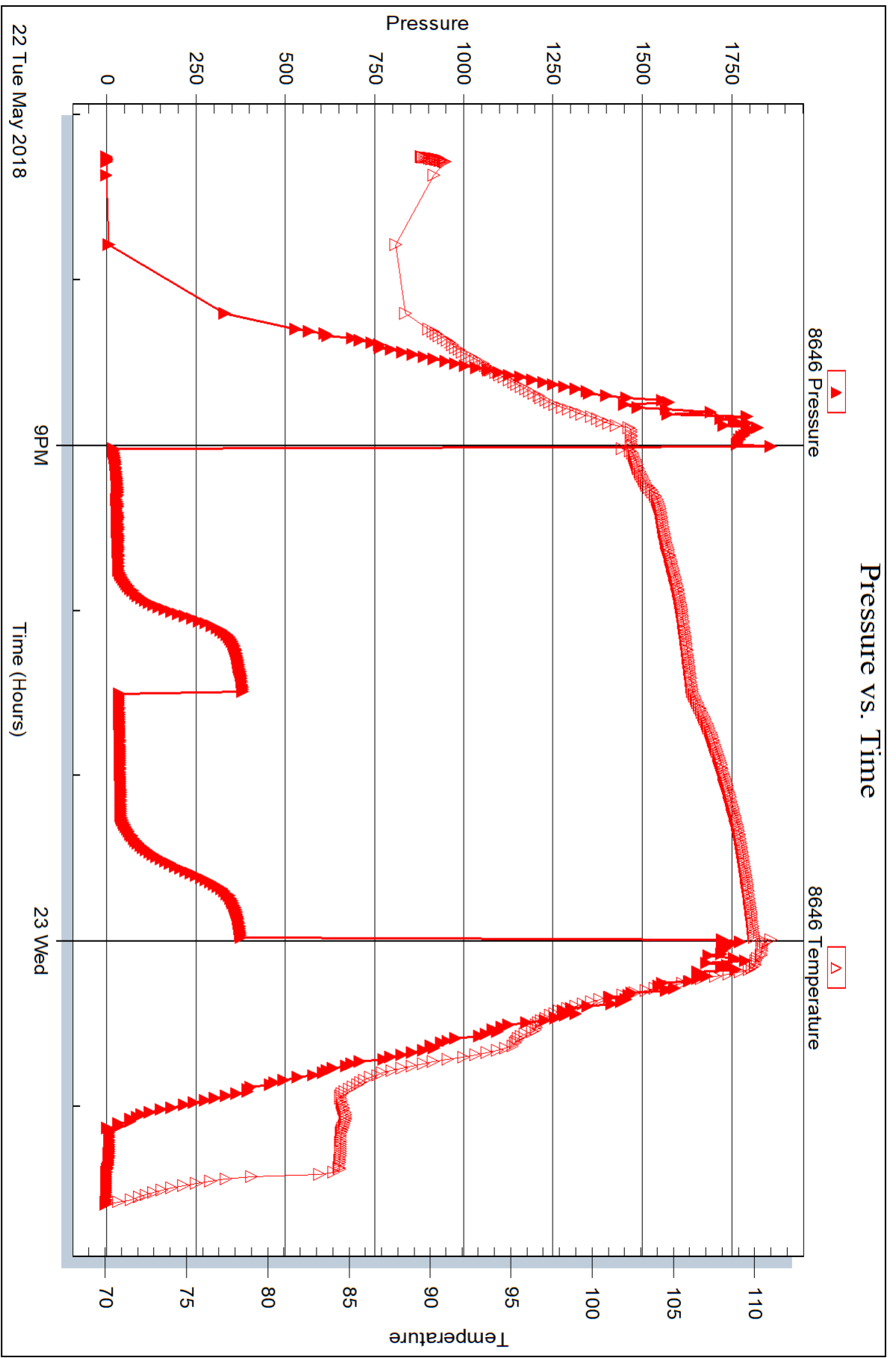
Printed: 2018.05.25 @ 08:27:24

Serial #: 8646

Outside Dow n/ing Nelson Oil Co

Schneller #2-25

DST Test Number: 5



Trilobite Testing, Inc

Ref. No: 64016

Printed: 2018.05.25 @ 08:27:25



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.23 @ 18:40:00

End Date: 2018.05.24 @ 02:03:09

Job Ticket #: 64017 DST #: 6

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

Printed: 2018.05.25 @ 08:26:17



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64017

DST#: 6

ATTN: Marc Downing

Test Start: 2018.05.23 @ 18:40:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:42:10

Time Test Ended: 02:03:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3924.00 ft (KB) To 3958.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3958.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 74.45 psig @ 3925.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.23

End Date:

2018.05.24

Last Calib.: 2018.05.24

Start Time: 18:40:01

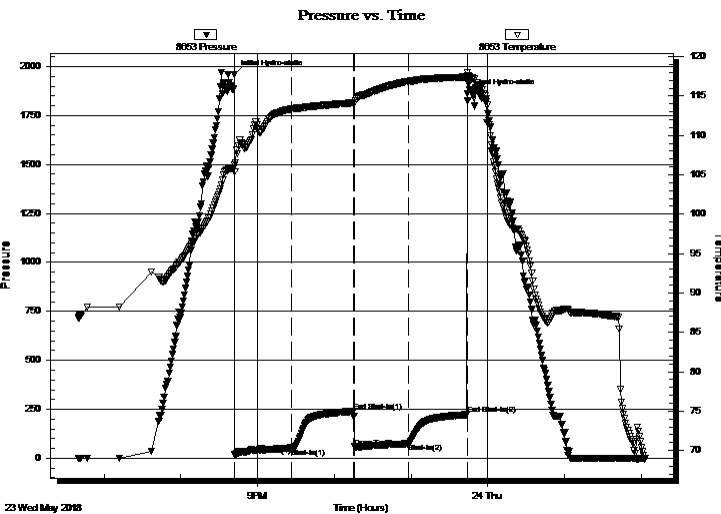
End Time:

02:03:10

Time On Btm: 2018.05.23 @ 20:42:00

Time Off Btm: 2018.05.23 @ 23:44:09

TEST COMMENT: IF-45- BOB in 40 min; built to 11"
ISI-45- No blow back
FF-45- BOB in 41 min; built to 10 1/2"
FSI-45- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1958.97	106.29	Initial Hydro-static
1	17.17	105.38	Open To Flow (1)
45	52.70	113.34	Shut-In(1)
93	238.78	114.14	End Shut-In(1)
94	58.13	114.11	Open To Flow (2)
137	74.45	116.87	Shut-In(2)
182	222.59	117.40	End Shut-In(2)
183	1862.75	118.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	OCM 10%O 90%M	0.60
63.00	CO 100%O	0.89
0.00	95' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64017

DST#: 6

ATTN: Marc Downing

Test Start: 2018.05.23 @ 18:40:00

Tool Information

Drill Pipe:	Length: 3928.00 ft	Diameter: 3.82 inches	Volume: 55.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 61000.00 lb
			<u>Total Volume: 55.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	56.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3924.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3905.00	
Shut In Tool	5.00			3910.00	
Hydraulic tool	5.00			3915.00	
Packer	5.00			3920.00	20.00 Bottom Of Top Packer
Packer	4.00			3924.00	
Stubb	1.00			3925.00	
Recorder	0.00	8653	Inside	3925.00	
Recorder	0.00	8737	Outside	3925.00	
Perforations	30.00			3955.00	
Bullnose	3.00			3958.00	34.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64017

DST#: 6

ATTN: Marc Downing

Test Start: 2018.05.23 @ 18:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

40 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 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
63.00	OCM 10%O 90%M	0.597
63.00	CO 100%O	0.893
0.00	95' GIP	0.000

Total Length: 126.00 ft

Total Volume: 1.490 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#

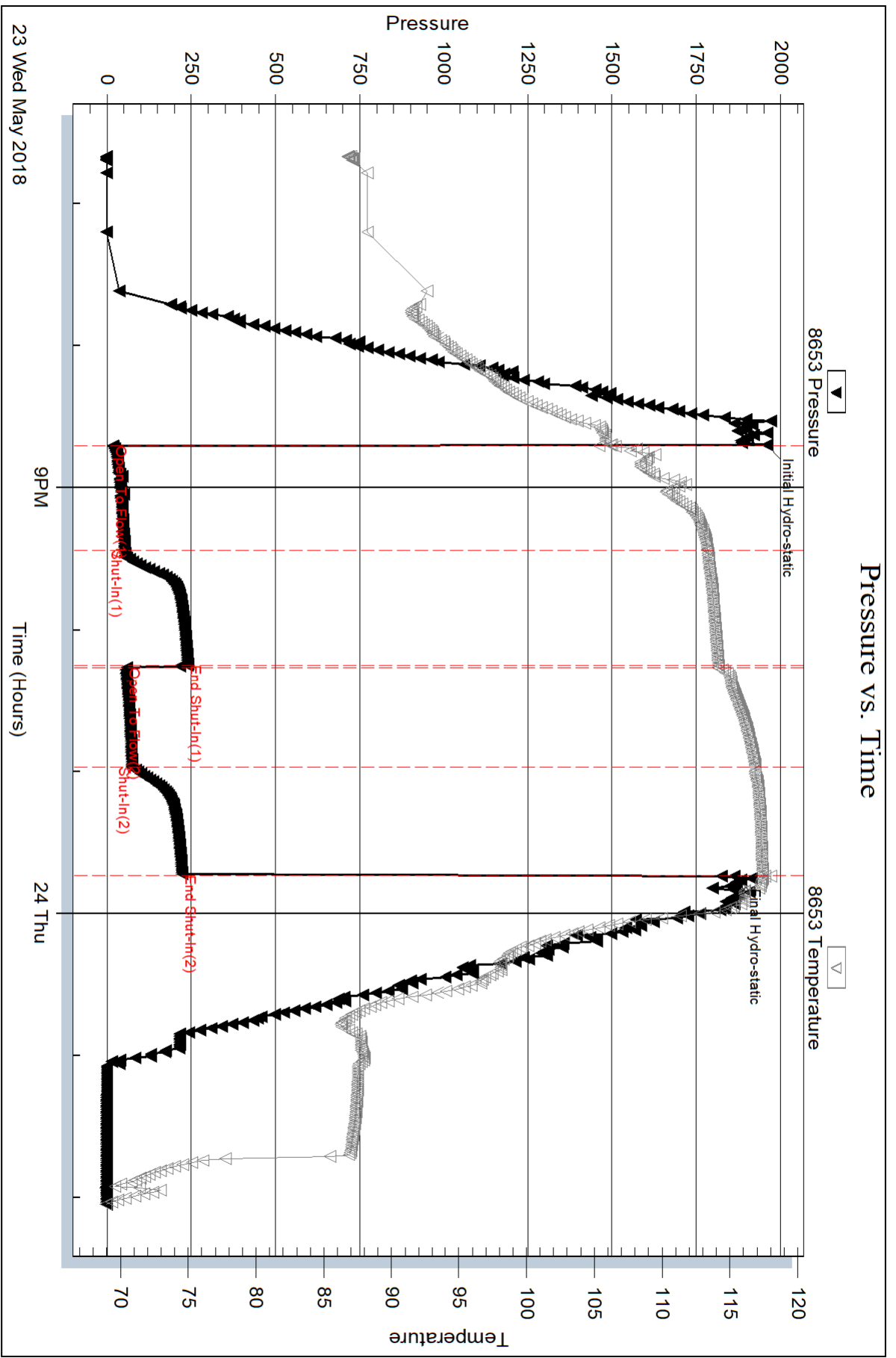
Serial #: 8653

Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 6



Triobite Testing, Inc

Ref. No: 64017

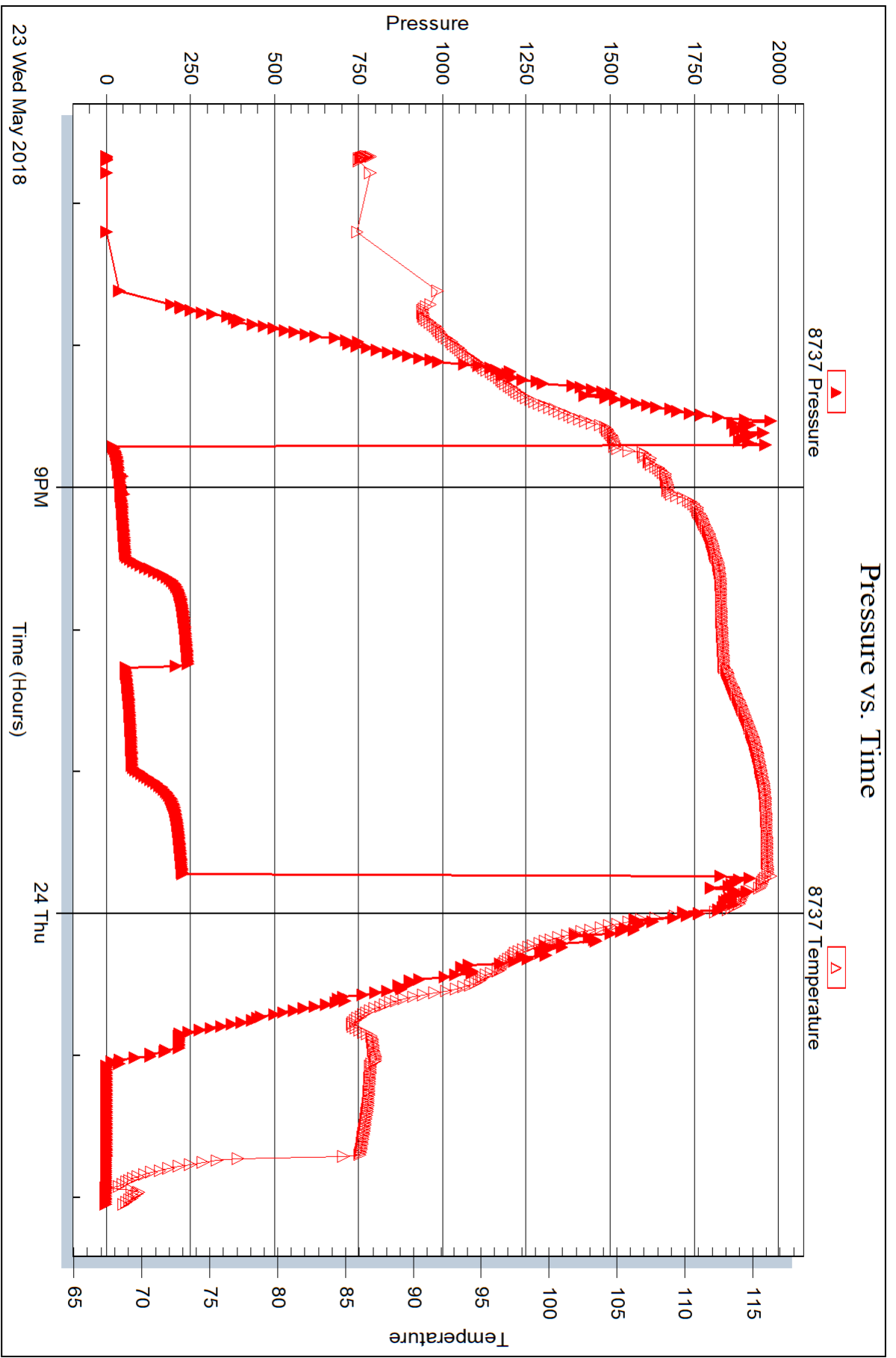
Printed: 2018.05.25 @ 08:26:18

Serial #: 8737

Outside Dow ning Nelson Oil Co

Schneller #2-25

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Schneller #2-25

25-13s-21w Trego,KS

Start Date: 2018.05.24 @ 09:16:00

End Date: 2018.05.24 @ 16:24:30

Job Ticket #: 64018 DST #: 7

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

Printed: 2018.05.25 @ 10:01:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64018

DST#: 7

ATTN: Marc Downing

Test Start: 2018.05.24 @ 09:16:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:12:10

Time Test Ended: 16:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Cade Gerhard

Unit No: 65

Interval: 3952.00 ft (KB) To 3996.00 ft (KB) (TVD)

Reference Elevations: 2330.00 ft (KB)

Total Depth: 3996.00 ft (KB) (TVD)

2322.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8653

Inside

Press@RunDepth: 184.04 psig @ 3958.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.05.24

End Date:

2018.05.24

Last Calib.:

2018.05.24

Start Time: 09:16:01

End Time:

16:24:30

Time On Btm:

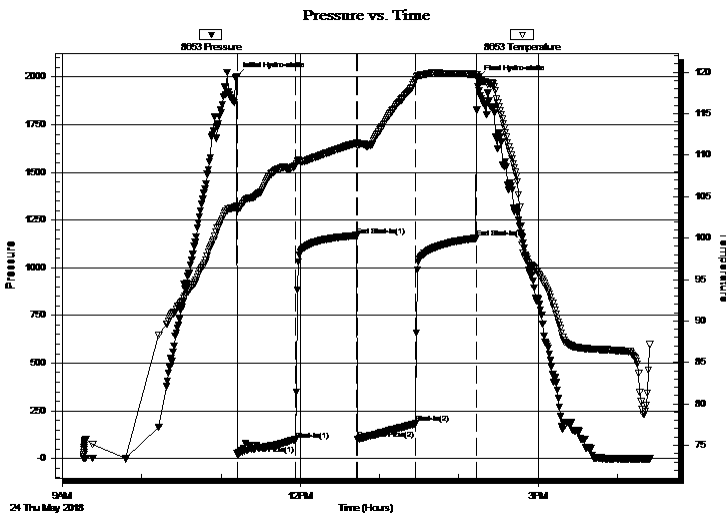
2018.05.24 @ 11:12:00

Time Off Btm:

2018.05.24 @ 14:14:20

TEST COMMENT: IF-45- Strong blow ; BOB in 29 min; Built to 14 1/2"
IS-45- No blow back
FF-45- Strong blow ; BOB in 20 min; Built to 23"
FSI-45- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2002.70	103.86	Initial Hydro-static
1	24.21	103.26	Open To Flow (1)
44	97.79	108.70	Shut-In(1)
91	1169.55	111.46	End Shut-In(1)
92	100.68	111.17	Open To Flow (2)
136	184.04	119.11	Shut-In(2)
181	1154.57	119.74	End Shut-In(2)
183	1989.26	119.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSOMCW 5%G 3%O 62%W 30%M	0.55
300.00	SWOCM 20%O 5%W 75%M	4.21
60.00	GO 20%G 80%O	0.84
0.00	60' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

25-13s-21w Trego,KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64018

DST#: 7

ATTN: Marc Downing

Test Start: 2018.05.24 @ 09:16:00

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 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: 62000.00 lb
			<u>Total Volume: 55.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	64.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3952.00 ft			Final 62000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	69.00 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			3929.00	
Shut In Tool	5.00			3934.00	
Hydraulic tool	5.00			3939.00	
EM Tool	4.00			3943.00	
Packer	5.00			3948.00	24.00 Bottom Of Top Packer
Packer	4.00			3952.00	
Stubb	1.00			3953.00	
Perforations	5.00			3958.00	
Recorder	0.00	8653	Inside	3958.00	
Recorder	0.00	8737	Outside	3958.00	
Change Over Sub	2.00			3960.00	
Drill Pipe	32.00			3992.00	
Change Over Sub	2.00			3994.00	
Bullnose	3.00			3997.00	45.00 Bottom Packers & Anchor

Total Tool Length: 69.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

25-13s-21w Trego, KS

PO Box 1019
Hays, KS 67601

Schneller #2-25

Job Ticket: 64018

DST#: 7

ATTN: Marc Downing

Test Start: 2018.05.24 @ 09:16:00

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: 9.98 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
60.00	GSOMCW 5%G 3%O 62%W 30%M	0.550
300.00	SWOCM 20%O 5%W 75%M	4.208
60.00	GO 20%G 80%O	0.842
0.00	60' GIP	0.000

Total Length: 420.00 ft

Total Volume: 5.600 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: LCM- 2#

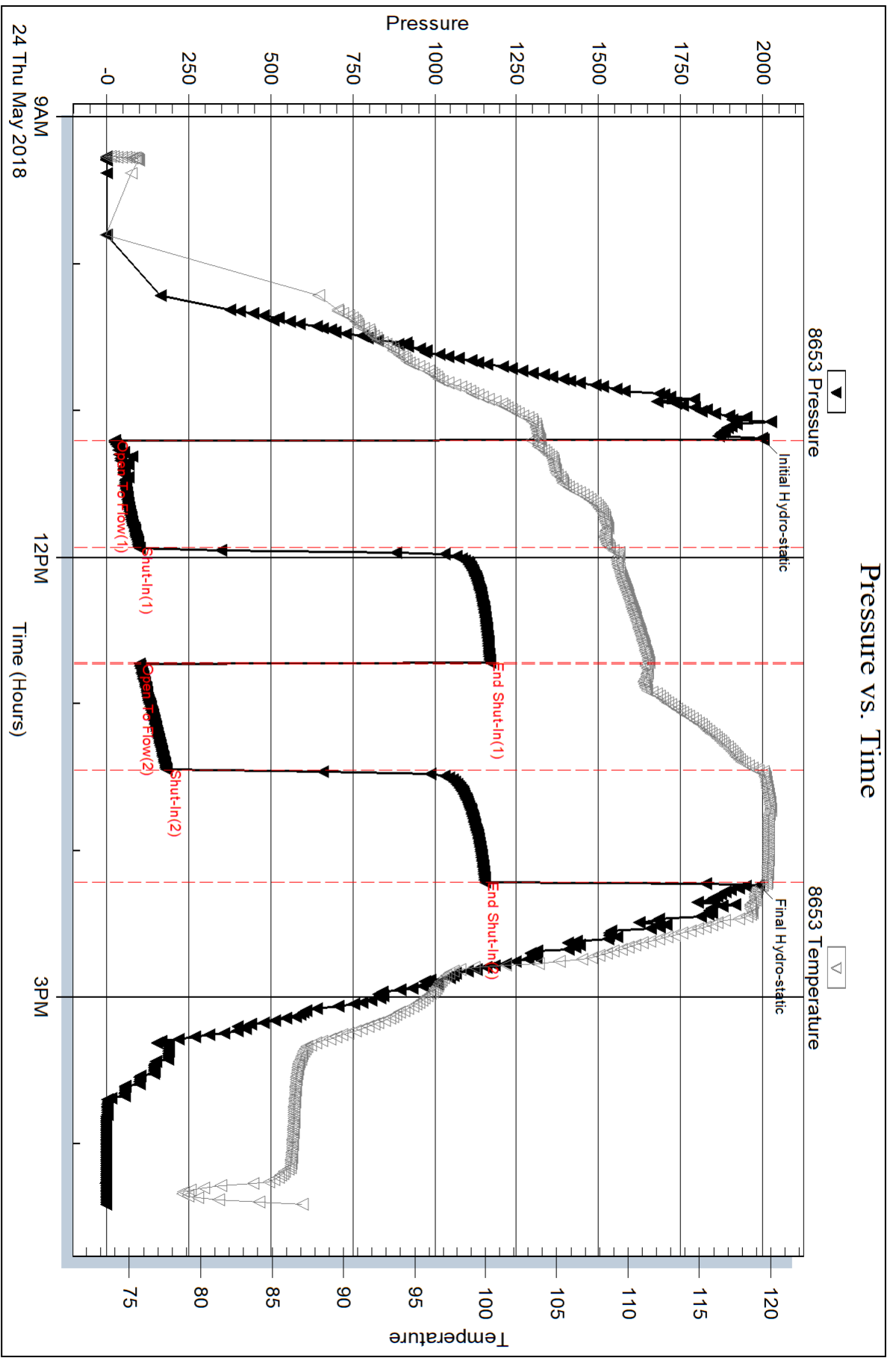
Serial #: 8653

Inside

Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 7

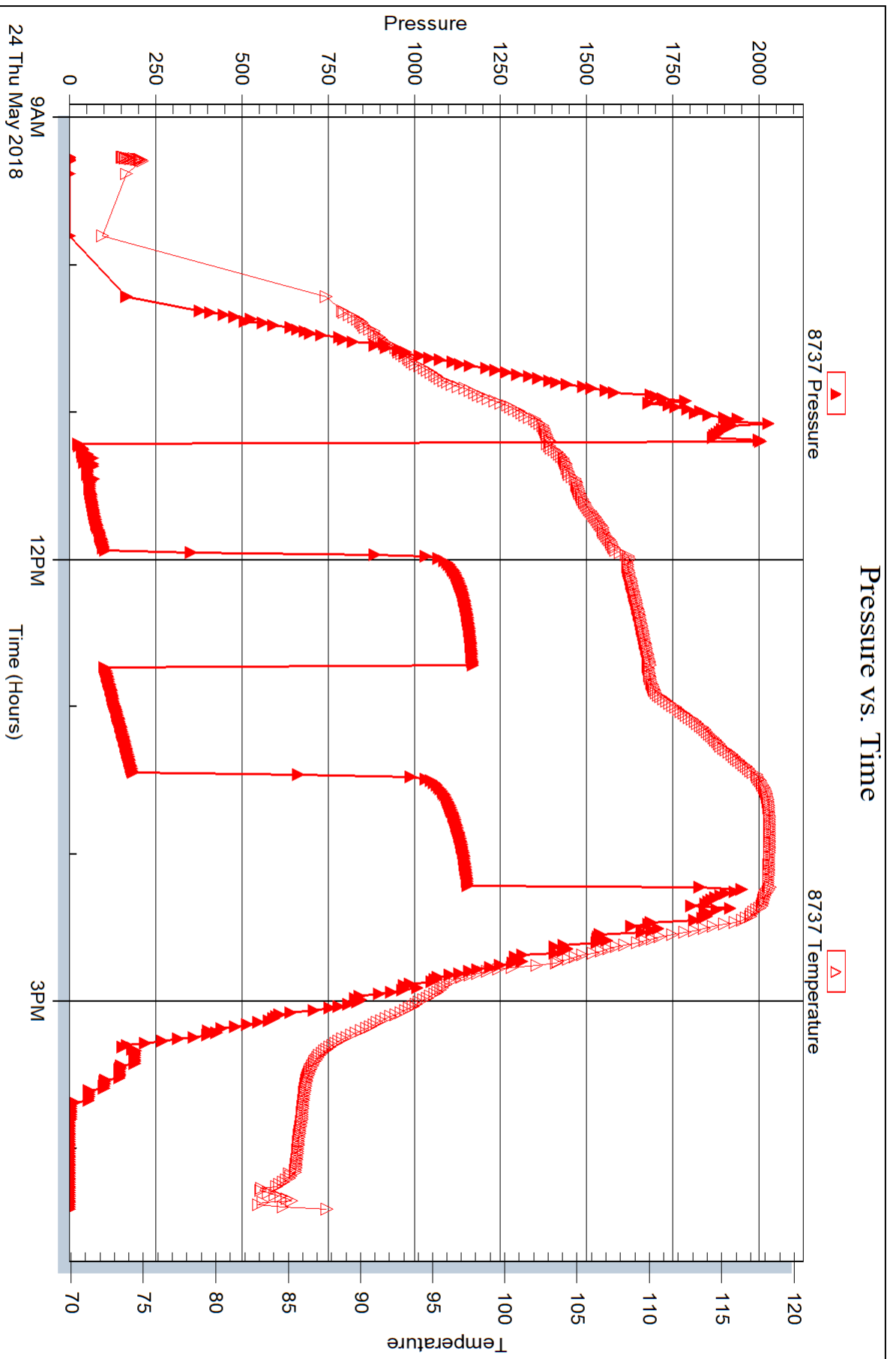


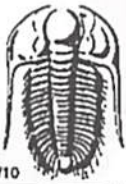
Serial #: 8737

Outside Downing Nelson Oil Co

Schneller #2-25

DST Test Number: 7





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **64012**

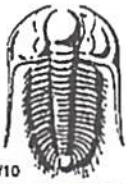
Well Name & No. Schneller # 2-25 Test No. 1 Date 5-20-16
 Company DNOC F Elevation 2330 KB 2322 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 25 Twp 13^N Rge. 21^W Co. Trego State Ks

Interval Tested 3630 - 3653 Zone Tested LKC "C"
 Anchor Length 23' Drill Pipe Run 3583 Mud Wt. 8.6
 Top Packer Depth 3675 Drill Collars Run 32' Vis 6.2
 Bottom Packer Depth 3630 Wt. Pipe Run — WL 7.2
 Total Depth 3653 Chlorides 4600 ppm System LCM 2#
 Blow Description IF - Weak surface blow - Flushed tool
ISI - No blow
IF - Weak surface - Flush tool - Pulled test
FSI -

Rec	Feet of	%gas	%oil	%water	%mud
<u>1</u>	<u>mud</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 Total 1 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1976 Test 1050 T-On Location 14:40
 (B) First Initial Flow _____ Jars _____ T-Started 15:44
 (C) First Final Flow _____ Safety Joint _____ T-Open 18:19
 (D) Initial Shut-In _____ Circ Sub _____ T-Pulled 19:10
 (E) Second Initial Flow _____ Hourly Standby _____ T-Out 20:35
 (F) Second Final Flow _____ Mileage 64 RT 64 Comments _____
 (G) Final Shut-In _____ Sampler _____
 (H) Final Hydrostatic 2065 Straddle _____ Ruined Shale Packer _____
 Initial Open 15 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 15 Extra Packer _____ Extra Copies _____
 Final Flow Pulled Test Extra Recorder _____ Sub Total 0
 Final Shut-In _____ Day Standby _____ Total 0
 Accessibility _____ MP/DST Disc't _____
 Sub Total 0

Approved By _____ Our Representative _____
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64013

Well Name & No. Schneller # 2-25 Test No. 2 Date 5-20-18
 Company DINOCT Elevation 2330 KB 2322 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp 13^N Rge. 21^W Co. Trego State KS

Interval Tested 3630-3653 Zone Tested LKC "C"
 Anchor Length 23' Drill Pipe Run 3583 Mud Wt. 8.6
 Top Packer Depth 3625 Drill Collars Run 32' Vis 62
 Bottom Packer Depth ~~3625~~ 3630 Wt. Pipe Run — WL 7.2
 Total Depth 3653 Chlorides ~~2600~~ 4600 ppm System LCM 2#

Blow Description IF - Strong blow; BOB in 31 min; Built to 14"
FST - Slight blow back; built to 9"
FF - Strong blow; BOB in 40 min; Built to 11"
FST - Slight blow back; built to 4 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>126</u>	<u>MW</u>		<u>20</u>	<u>80</u>	
<u>32</u>	<u>SMCO</u>	<u>98</u>		<u>2</u>	
<u>32</u>	<u>SCM</u>	<u>2</u>		<u>98</u>	
	<u>63' GIP</u>				

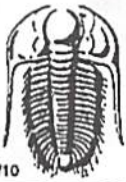
Rec Total 190 BHT 113° Gravity 33 API RW 312 @ 53° F Chlorides 31,000 ppm

(A) Initial Hydrostatic 1774 Test 1050 T-On Location 1440
 (B) First Initial Flow 18 Jars _____ T-Started 20:50
 (C) First Final Flow 43 Safety Joint _____ T-Open 22:09
 (D) Initial Shut-In 328 Circ Sub _____ T-Pulled 01:09
 (E) Second Initial Flow 42 Hourly Standby _____ T-Out 03:01
 (F) Second Final Flow 58 Mileage 64 Comments _____
 (G) Final Shut-In 326 Sampler _____
 (H) Final Hydrostatic 1640 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1114
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1114

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

Approved By _____ Our Representative Cade forward

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64014

Well Name & No. Scheller # 2-25 Test No. 3 Date 5-21-18
 Company DNOCI Elevation 2330 KB 2322 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Pumping Rig Discovery #4
 Location: Sec. 25 Twp 13^s Rge. 21^w Co. Trego State KS

Interval Tested 3670-3686 Zone Tested LKC-E"
 Anchor Length 16' Drill Pipe Run 3642 Mud Wt. 8.9
 Top Packer Depth 3665 Drill Collars Run 32' Vis 51
 Bottom Packer Depth 3670 Wt. Pipe Run - WL 8.8
 Total Depth 3686 Chlorides 6000 ppm System LCM 2#

Blow Description IF - Good blow - Built to 6 1/2 in
ISI - Weak blow back; Built to 1/2 in
FF - ~~Strong blow~~ Strong blow - BOB in 7 min; Built to 2 1/2 in
FSI - Weak blow back; built to 7 1/2 in

Rec	Feet of	%gas	%oil	%water	%mud
95	560' M	2	2	96	
63	MW		70	30	
	441' GTP	100			

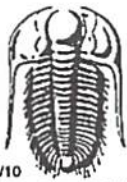
Rec Total 158 BHT 113° Gravity API RW - 620@ 90° F Chlorides 8000 ppm

(A) Initial Hydrostatic 1770 Test 1050 T-On Location 09:35
 (B) First Initial Flow 19 Jars _____ T-Started 09:57
 (C) First Final Flow 44 Safety Joint _____ T-Open 11:41
 (D) Initial Shut-In 210 Circ Sub _____ T-Pulled ~~14:41~~
 (E) Second Initial Flow 41 Hourly Standby _____ T-Out 16:40
 (F) Second Final Flow 77 Mileage 64 RT 64
 (G) Final Shut-In 206 Sampler _____
 (H) Final Hydrostatic 1671 Straddle _____

Initial Open 45 Ruined Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Sub Total 0
 Total 1114
 MP/DST Disc't _____
 Sub Total 1114

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64015

Well Name & No. Schneller #2-25 Test No. 4 Date 5-22-18
 Company DNOCI Elevation 2330 KB 2322 GL
 Address PO Box 1019 Hays, Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp 13^N Rge. 21^W Co. Trego State Ks

Interval Tested 3729-3784 Zone Tested LKC-"H+T"
 Anchor Length 55 Drill Pipe Run 3705 Mud Wt. 8.9
 Top Packer Depth 3724 Drill Collars Run 32' Vis 51
 Bottom Packer Depth 3729 Wt. Pipe Run — WL 8.4
 Total Depth 3784 Chlorides 6000 ppm System LCM 2#
 Blow Description IF-Fail ~~blow~~ blow; Built to 4"
ISI-No blow back
FF-Weak ~~blow~~ blow; built to 2 1/2"
FSI-No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>75</u>	<u>VSOCM</u>		<u>1</u>	<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 75' BHT 108° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1827 Test 1050 T-On Location 05:53
 (B) First Initial Flow 29 Jars _____ T-Started 06:30
 (C) First Final Flow 43 Safety Joint _____ T-Open 08:31
 (D) Initial Shut-In 64 Circ Sub _____ T-Pulled 11:31
 (E) Second Initial Flow 48 Hourly Standby _____ T-Out 13:01
 (F) Second Final Flow 51 Mileage 64RT 64 Comments _____
 (G) Final Shut-In 68 Sampler _____
 (H) Final Hydrostatic 1783 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 1114
 Final Flow 45 Accessibility _____ MP/DST Disc't _____
 Final Shut-In 45 Sub Total 1114

Approved By _____ Our Representative Cade Richard

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64016

Well Name & No. Schneller #2-25 Test No. 5 Date 5-22-18
 Company DNOCL Elevation 2330 KB 2332 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 25 Twp 13^s Rge. 21^w Co. Trego State Ks

Interval Tested 3780-3805 Zone Tested LKC"J"
 Anchor Length 25' Drill Pipe Run 3770 Mud Wt. 9
 Top Packer Depth 3775 Drill Collars Run 32' Vls 53
 Bottom Packer Depth 3780 Wt. Pipe Run - WL 9.2
 Total Depth 3805 Chlorides 7000 ppm System LCM 2#

Blow Description IF - Weak blow; Built to 3"
FST - NO blowback
FP - Weak blow; Built to 2'14"
FST - NO blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>V50CM</u>		<u>1</u>	<u>99</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

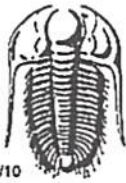
Rec Total 63 BHT _____ Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 18109 Test 1050 T-On Location ~~18:50~~ 18:50
 (B) First Initial Flow 16 Jars _____ T-Started 19:21
 (C) First Final Flow 30 Safety Joint _____ T-Open 21:00
 (D) Initial Shut-In 379 Circ Sub _____ T-Pulled 00:00
 (E) Second Initial Flow 34 Hourly Standby _____ T-Out ~~01:36~~ 01:36
 (F) Second Final Flow 39 Mileage 64 RT 64
 (G) Final Shut-In 374 Sampler _____
 (H) Final Hydrostatic 1722 Straddle _____ Ruined Shale Packer _____

Initial Open 45 Shale Packer _____ Ruined Packer _____
 Initial Shut-In 45 Extra Packer _____ Extra Copies _____
 Final Flow 45 Extra Recorder _____ Sub Total 0
 Final Shut-In 45 Day Standby _____ Total 1114
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1114

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64017

Well Name & No. Schneller #2-25 Test No. 6 Date 5-23-19
 Company DNOCT Elevation 2330 KB 2372 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 25 Twp 13S Rge. 21W Co. Trego State Ks

Interval Tested 3924-3958 Zone Tested Marmaton
 Anchor Length 34 Drill Pipe Run 3928 Mud Wt. 9
 Top Packer Depth 3919 Drill Collars Run 32' Vis 50
 Bottom Packer Depth 3924 Wt. Pipe Run — WL 9.2
 Total Depth 3958 Chlorides 8000 ppm System LCM 2#

Blow Description IF - Strong blow; BOB in 40 min; built to 11"
ISI - No blow back
FF - Strong blow - BOB in 41 min; built to 10 1/2"
FSI - No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>63</u>	<u>OCM</u>	<u>10</u>		<u>90</u>	
<u>63</u>	<u>CO</u>	<u>100</u>			
	<u>95' GEP</u>				

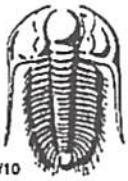
Rec Total 176' BHT 117° Gravity 40 API RW @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1958 Test 1050 T-On Location 16:00
 (B) First Initial Flow 17 Jars _____ T-Started 16:37
 (C) First Final Flow 52 Safety Joint _____ T-Open 18:40
 (D) Initial Shut-In 238 Circ Sub _____ T-Pulled 21:40
 (E) Second Initial Flow 58 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 74 Mileage 64 RT 64 Comments _____
 (G) Final Shut-In 272 Sampler _____
 (H) Final Hydrostatic 1862 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45
 Sub Total 1114
 Total 1114
 MP/DST Disc't _____

Approved By _____ Our Representative _____

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64018

Well Name & No. Schpeller # 2-25 Test No. 7 Date 5-24-18
 Company DNOCE Elevation 2330 KB 2322 GL
 Address PO Box 1019 Hays Ks 67601
 Co. Rep / Geo. Mark Downing Rig Discovery #4
 Location: Sec. 25 Twp 13N Rge. 21W Co. Trego State Ks

Interval Tested 3952-3996 Zone Tested Arbuckle
 Anchor Length 44 Drill Pipe Run 3960 Mud Wt. 9.2
 Top Packer Depth 3947 Drill Collars Run 32' Vis 53
 Bottom Packer Depth 3952 Wt. Pipe Run — WL 10
 Total Depth 3996 Chlorides 8000 ppm System LCM 2#

Blow Description IF - Strong blow; BOB in 29 min; Built to 14 1/2"
TST - No Blow back
FF - Strong blow; BOB in 20 min; Built to 23"
FST - No Blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>grey oil</u>	<u>20</u>	<u>80</u>		
<u>300</u>	<u>SP w/OCM</u>				
<u>60</u>	<u>grey slo + MCW</u>	<u>5</u>	<u>3</u>	<u>62</u>	<u>30</u>
<u>60</u>	<u>C-IP</u>				

Rec Total 420 BHT 119° Gravity 39 API RW 21 @ 94 °F Chlorides 25,000 ppm

(A) Initial Hydrostatic 2002 Test 1050 T-On Location 08:45
 (B) First Initial Flow 24 Jars _____ T-Started 09:16
 (C) First Final Flow 1075 Safety Joint _____ T-Open 11:14
 (D) Initial Shut-In 1169 Circ Sub _____ T-Pulled 14:14
 (E) Second Initial Flow 100 Hourly Standby _____ T-Out 110:24
 (F) Second Final Flow 1049 Mileage 64RT 64
 (G) Final Shut-In 1154 Sampler _____
 (H) Final Hydrostatic 1989 Straddle _____

Initial Open 45 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 45 Extra Packer _____ Ruined Packer _____
 Final Flow 45 Extra Recorder _____ Extra Copies _____
 Final Shut-In 45 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1114
 Sub Total 1114 MP/DST Disc't _____

Approved By _____ Our Representative Code Cochard

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Marc A. Downing
Consulting Petroleum Geologist

Geologic Report
Drilling Time and Sample Log

Operator Downing-Nelson Oil Co., Inc.		Elevation KB 2326	
Lease Frank Schneller	No. 2-25	DF 2324	GL 2318
API # 15-195-23041-0000		Casing Record Surface 8 5/8" @ 220'	
Field Schneller		Production 5 1/2" @ 4075'	
Location 2300' FNL & 335' FEL			
Sec. 25	Twp. 13s	Rge. 21w	Electrical Surveys CNDL, DIL MEL, Sonic
County Trego	State Kansas		
Formation	Sample tops	Log Tops	Datum Struct Comp
Top Anhydrite	1658	1660	+666 -3
Base Anhydrite	1700	1702	+624 -5
Topeka	3335	3338	-1012 +3
Heebner	3570	3573	-1247 +1
Toronto	3590	3592	-1266 +7
LKC	3608	3611	-1285 +3
BKC	3862	3864	-1538 +3
Marmaton	3918	3922	-1596 +1
Cherokee Sh	3956	3961	-1635 +3
Penn Sand	3989	3992	-1666 Absent
Arbuckle	4004	4008	-1682 -17
Total Depth	4076	4077	-1751

Drilling Contractor	Discovery Drilling, Rig #4
Commenced	5-16-18 Completed 5-25-18
Samples Saved From	3350 To RTD
Drilling Time Kept From	3250 To RTD
Samples Examined From	3350 To RTD
Geological Supervision From	3350 To RTD

Summary and Recommendations
Due to structural position, DST recovery, and log evaluation, it was decided to set 5 1/2" production casing for completion.

Respectfully Submitted,
 Marc A. Downing

Reference Well For Structural Comparison: **DNOCI - Schneller #1-25**
1592' FNL & 760' FEL, Sec. 25-13s-21w

Printed by **GeoStrip VC Striplog version 4.0.8.15 (www.gsr.ca)**

ROCK TYPES
 shale, gry Carbon Sh
 Dolbrim Lmst fw7>

ACCESSORIES
 STRINGER Dolomite red shale
 Chert, dark Chert, white

OTHER SYMBOLS
 DST DST Int DST alt Core Tail pipe
 MISC Daily Report Digital Photo Document Folder Link
 Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt
 OIL SHOWS Fr. Shn Spotted Shn 50 - 75 % Spotted Shn 25 - 50 % Questionable Shn Dead Oil Shn Fluorescence



Geological Descriptions
 V/S: 62 Wt: 8.6 DST #1 3630-3653 15-15-00
 I.F. - Weak Surf, flush, dead P.F. - Weak Surf, flush, dead
 I.F.P. - Weak Surf, flush, dead F.F.P. - Weak Surf, flush, dead
 Rec: T' mud - Tool bit and open -

Geological Descriptions
 V/S: 50 Wt: 9.0 DST #6 3780-3805
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #2 3630-3653
 I.F. - BOB 31 min / 1" SIB F.F. - BOB 40 min / 1/2" SIB
 Rec: 63 GIP 32 SMO (88% o) 126 MW (20% w) BHT: 113 G = 33 Chlgar: 31K

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #3 3630-3653
 I.F. - BOB 31 min / 1" SIB F.F. - BOB 40 min / 1/2" SIB
 Rec: 63 GIP 32 SMO (88% o) 126 MW (20% w) BHT: 113 G = 33 Chlgar: 31K

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #4 3720-3764
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #5 3780-3805
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #6 3780-3805
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #7 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #8 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #9 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #10 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #11 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #12 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #13 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #14 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #15 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #16 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #17 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #18 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #19 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #20 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #21 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #22 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #23 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #24 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #25 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #26 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #27 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #28 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #29 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #30 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #31 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #32 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #33 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #34 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #35 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #36 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #37 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #38 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #39 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #40 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #41 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #42 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #43 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #44 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #45 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #46 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #47 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #48 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #49 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #50 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #51 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #52 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #53 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #54 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #55 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #56 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #57 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #58 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #59 3820-3868
 I.F. - BOB 40 min F.F. - BOB 41 min F.F.P. - BOB 29 min F.F.P. - BOB 20 min
 Rec: 95 GIP 63 CO 63 CO (10% o) BHT: 117 G = 40

Geological Descriptions
 V/S: 62 Wt: 8.6 DST #60 3



Services, Inc.

CHARGE TO: Dunning & Olsen

ADDRESS: Dunning & Olsen

CITY, STATE, ZIP CODE

TICKET 27270

PAGE 1 OF 1

WELL PROJECT NO. <u>2-25</u>	LEASE <u>Schneller</u>	COUNTY/PARISH <u>TREAO</u>	STATE <u>KS</u>	CITY	DATE	OWNER
1. <u>Hays, KS</u>	TICKET TYPE <u>DISCOVERY DRILLING</u>	RIG NAME/ID. <u>#4</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO. <u>05/16/82</u>	
2. <u>Ness City, KS</u>	WELL TYPE <u>D-1</u>	JOB PURPOSE <u>Development</u>	WELL PERMIT NO.	WELL LOCATION		
3.	INVOICE INSTRUCTIONS					
4.	REFERRAL LOCATION					

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.			UNIT PRICE	AMOUNT
		LOC	ACCT	DF		QTY.	UM	QTY.		
575					MILEAGE #113	20	mi		5.00	100.00
570S					Pump Charge - Shallow Surface	1	EA		875.00	875.00
290					N-A.C	1	gal		42.00	42.00
325					Standard Cement	150	Sks		13.00	1950.00
279					Bentonite Gel	3	Sks		30.00	90.00
278					Calcium Chloride	9	Sks		40.00	360.00
581					Service Charge Cement	150	Sks		1.75	262.50
583					Drayage	40	mi		0.85	34.00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X John D. Smith

DATE SIGNED _____ TIME SIGNED _____

A.M. P.M.

REMIT PAYMENT TO:

SWIFT SERVICES, INC.

P.O. BOX 466

NESS CITY, KS 67560

785-798-2300

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?

WE UNDERSTOOD AND MET YOUR NEEDS?

OUR SERVICE WAS PERFORMED WITHOUT DELAY?

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	102.00	3538.95
TOTAL	3714.57	

SWIFT OPERATOR: [Signature] APPROVAL: _____

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: The customer hereby acknowledges receipt of the materials and services listed on this ticket.

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 05/16/18	PAGE NO. 1
TICKET NO. 27270	

CUSTOMER Downing & Nelson	WELL NO. 2-25	LEASE Schneller	JOB TYPE Surface
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CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1730							On location, set up truck, Big still Drilling 220' of 8-5/8" x 23#
	1845							Hook up to circulate.
	1900							Hook up to Swift.
	1902	3 1/2	5			5'	100	Start Water ahead
	1905	3 1/2					150	Start Cmt
		3 1/2	36				Val	Fin Cmt
	1920	3 1/2						Start Displacement
	1925	3 1/2	12 1/2				250	Fin Displacement
	1930							Shut in
								Wash up truck Rack up
	1945							Job Complete
								Thanks, Jon, Austin, Isaac

SWIFT Services, Inc.

DATE _____ PAGE NO. _____

OWNER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Blowing-Nelson		2-25		Schroller		Two Stage		27293	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1130								On location 5 1/2 csg x 14 # RTD - 4076 Pipe set @ 4072 Shoe - 42.36 Baffle @ 4030 Centralizers - 1, 3, 5, 7, 9, 11, 58 Basket - 59 D.V. Tool @ 1637
	1140								Start Running Csg
	1330								Break Circ on Bottom
	1400	5.5	12			200			pump mud flush - 500 gal
		5.5	20			200			pump PCL spacer
	1410	5	0			200			Start Cmt - 150 sks EA-2 @ 15.5 PPG
		5	36			100			End Cmt
	1420	7	0			100			WASH PCL - Drop Plug
	1430	5	98			600			Start Disp Ians plug lift - 600 # IAND - 1500 #
	1435								Release - Dry Drop Bomb
		2.5	16			0			Plug rat - 30 sks
		2.5	8			0			Plug mouse - 15 sks
	1455					900			Open D.V. Tool
		6	6			200			START CMT - 140 sks @ 11.2 PPG
		6	78			200			Raise wgt to 14.0 PPG - 15 sks
		5	83			100			End Cmt
	1520	5	0			100			Drop plug
		5	30			200			Start Disp
	1530	5	40			400			Circ cmt - 20 sks top it Ians Plug
									Release psi - Dry
									Thanks David, ZACH & YSANC