

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1375232
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

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: _____

1375232



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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
TCores aken	<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:				

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				

- Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 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)</i>			PRODUCTION INTERVAL: Top _____ Bottom _____	

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	COOK-PRIDDY 1-35
Doc ID	1375232

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	COOK-PRIDDY 1-35
Doc ID	1375232

Tops

Name	Top	Datum
Top Anhydrite	1801'	+561
Base Anhydrite	1842'	+520
Topeka	3362'	-1000
Heebner	3582'	-1220
Toronto	3603'	-1241
LKC	3618'	-1256
BKC	3848'	-1486
Marmaton	3954'	-1592
Cherokee Shale	3997'	-1635
Conglomerate	4055'	-1693



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.22 @ 13:03:44

End Date: 2017.10.22 @ 20:57:35

Job Ticket #: 63101 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:24:47

Downing Nelson Oil Co., Inc
35-11S-23W Trego,KS
Cook-Priddy #1-35
DST # 1
Toronto & LKC "A"
2017.10.22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63101

DST#: 1

ATTN: Marc Downing

Test Start: 2017.10.22 @ 13:03:44

GENERAL INFORMATION:

Formation: **Toronto & LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:10:50

Time Test Ended: 20:57:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 73

Interval: **3580.00 ft (KB) To 3645.00 ft (KB) (TVD)**

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3645.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 62.23 psig @ 3581.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.22 End Date: 2017.10.22

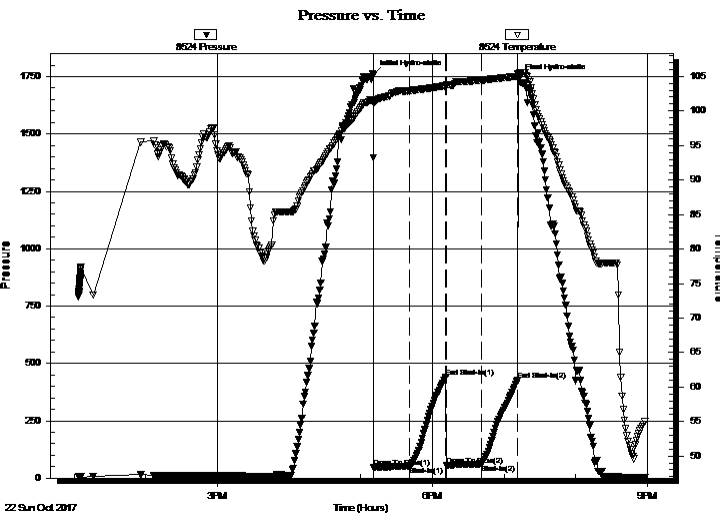
Last Calib.: 2017.10.22

Start Time: 13:03:45 End Time: 20:57:35

Time On Btm: 2017.10.22 @ 17:10:20

Time Off Btm: 2017.10.22 @ 19:12:05

TEST COMMENT: 30- IF- Surface blow died in 5 mins
30- IS- No blow
30- FF- Surface blow died in 4 mins Flushed tool Surface blow died in 1 min
30- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1756.70	101.52	Initial Hydro-static
1	47.00	101.16	Open To Flow (1)
31	52.67	102.92	Shut-In(1)
61	438.98	103.65	End Shut-In(1)
62	56.18	103.72	Open To Flow (2)
91	62.23	104.45	Shut-In(2)
121	426.00	105.03	End Shut-In(2)
122	1739.43	105.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
75.00	OCM, 25%O 75%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., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63101

DST#: 1

ATTN: Marc Downing

Test Start: 2017.10.22 @ 13:03:44

Tool Information

Drill Pipe:	Length: 3551.00 ft	Diameter: 3.82 inches	Volume: 50.34 bbl	Tool Weight: 2000.00 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: 68000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3580.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	85.00 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			3561.00	
Shut In Tool	5.00			3566.00	
Hydraulic tool	5.00			3571.00	
Packer	5.00			3576.00	20.00 Bottom Of Top Packer
Packer	4.00			3580.00	
Stubb	1.00			3581.00	
Recorder	0.00	6771	Inside	3581.00	
Recorder	0.00	8524	Outside	3581.00	
Perforations	27.00			3608.00	
Change Over Sub	1.00			3609.00	
Drill Pipe	32.00			3641.00	
Change Over Sub	1.00			3642.00	
Bullnose	3.00			3645.00	65.00 Bottom Packers & Anchor

Total Tool Length: 85.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63101

DST#: 1

ATTN: Marc Downing

Test Start: 2017.10.22 @ 13:03:44

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.38 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
75.00	OCM, 25%O 75%M	0.767

Total Length: 75.00 ft Total Volume: 0.767 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

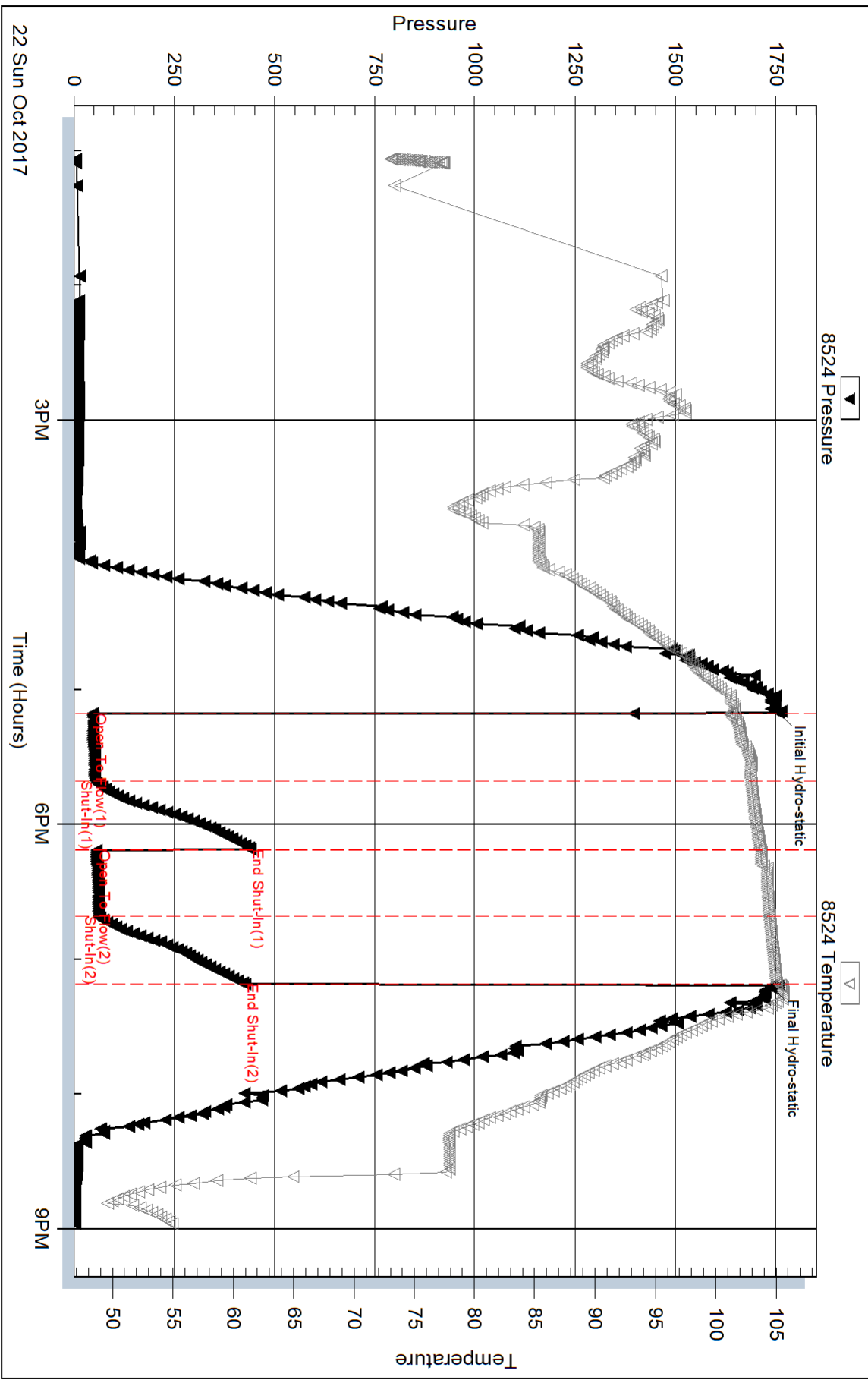
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



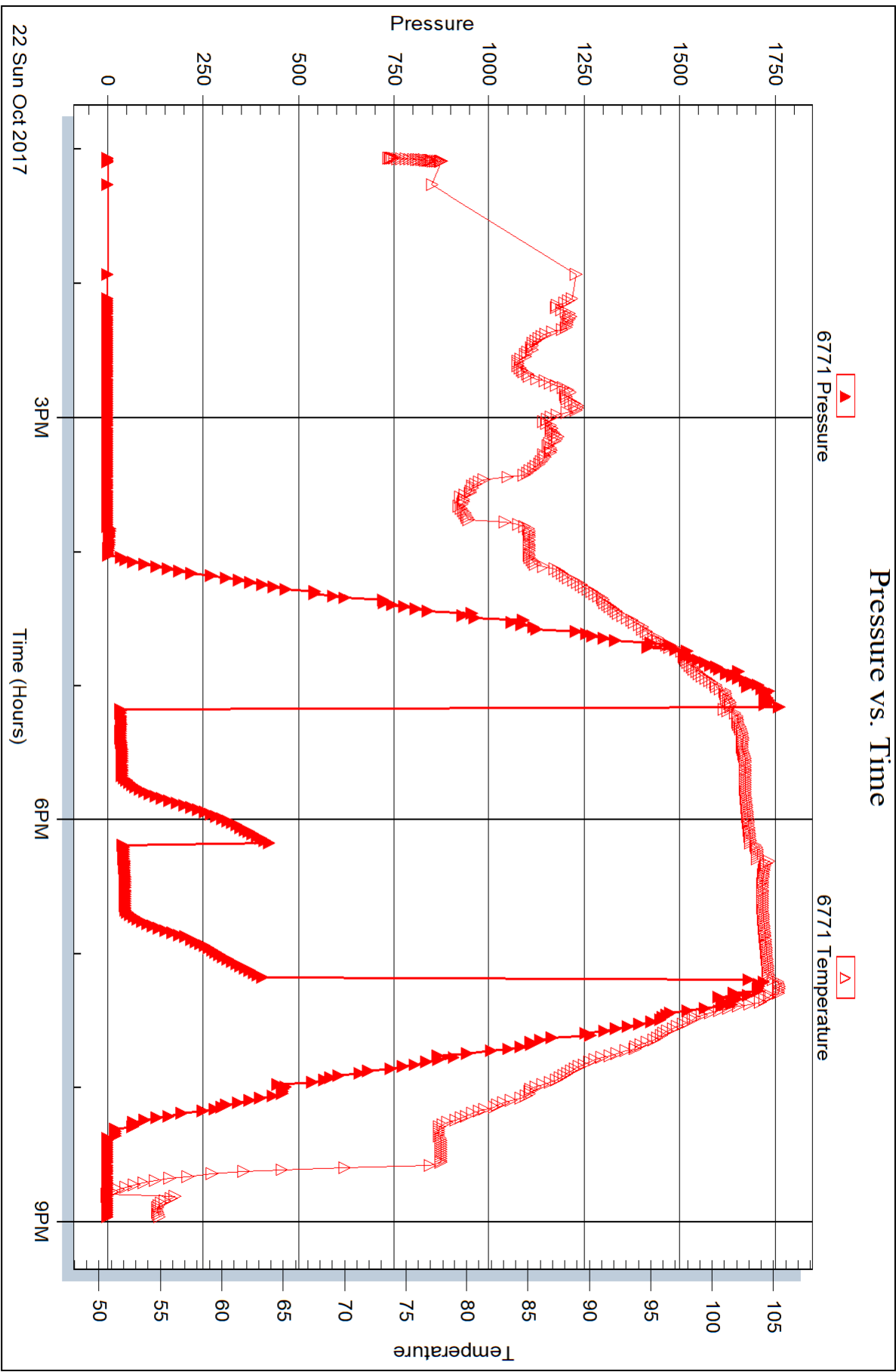
Serial #: 6771

Inside

Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.23 @ 03:30:24

End Date: 2017.10.23 @ 09:05:00

Job Ticket #: 63102 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:24:18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63102

DST#: 2

ATTN: Marc Downing

Test Start: 2017.10.23 @ 03:30:24

GENERAL INFORMATION:

Formation: **LKC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:43:15

Time Test Ended: 09:05:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3641.00 ft (KB) To 3666.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3666.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 49.24 psig @ 3642.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.23

End Date: 2017.10.23

Last Calib.: 2017.10.23

Start Time: 03:30:25

End Time: 09:05:00

Time On Btm: 2017.10.23 @ 05:42:45

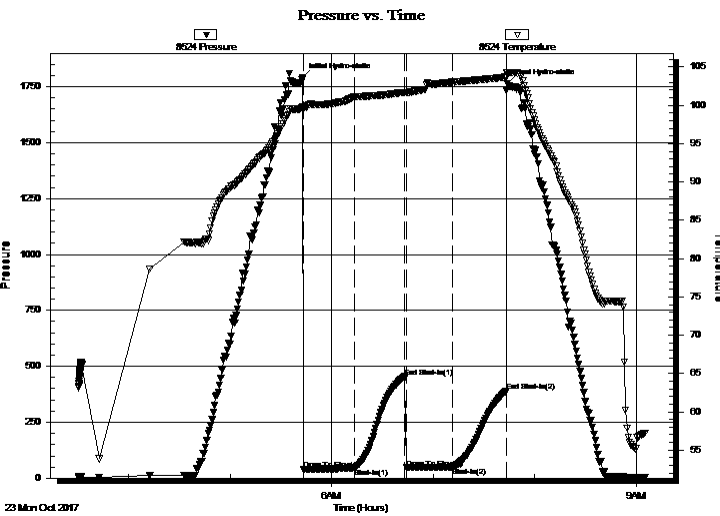
Time Off Btm: 2017.10.23 @ 07:44:00

TEST COMMENT: 30- IF- Weak surface blow

30- IS- No blow

30- FF- Surface blow died 3 mins Flushed tool Surface blow died 1 min

30- FSI- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1788.76	99.83	Initial Hydro-static
1	38.54	99.72	Open To Flow (1)
31	44.92	101.09	Shut-In(1)
61	453.17	101.70	End Shut-In(1)
62	46.10	101.65	Open To Flow (2)
89	49.24	103.04	Shut-In(2)
121	388.35	103.69	End Shut-In(2)
122	1764.55	104.23	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	SOCM, 5%O 95%M	0.34

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63102

DST#: 2

ATTN: Marc Downing

Test Start: 2017.10.23 @ 03:30:24

Tool Information

Drill Pipe:	Length: 3616.00 ft	Diameter: 3.82 inches	Volume: 51.26 bbl	Tool Weight: 2000.00 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: 59000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 3.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	3641.00 ft			Final 52000.00 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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3622.00	
Shut In Tool	5.00			3627.00	
Hydraulic tool	5.00			3632.00	
Packer	5.00			3637.00	20.00 Bottom Of Top Packer
Packer	4.00			3641.00	
Stubb	1.00			3642.00	
Recorder	0.00	6771	Inside	3642.00	
Recorder	0.00	8524	Outside	3642.00	
Perforations	21.00			3663.00	
Bullnose	3.00			3666.00	25.00 Bottom Packers & Anchor
Total Tool Length:	45.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63102

DST#: 2

ATTN: Marc Downing

Test Start: 2017.10.23 @ 03:30:24

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: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	SOCM, 5%O 95%M	0.342

Total Length: 45.00 ft Total Volume: 0.342 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

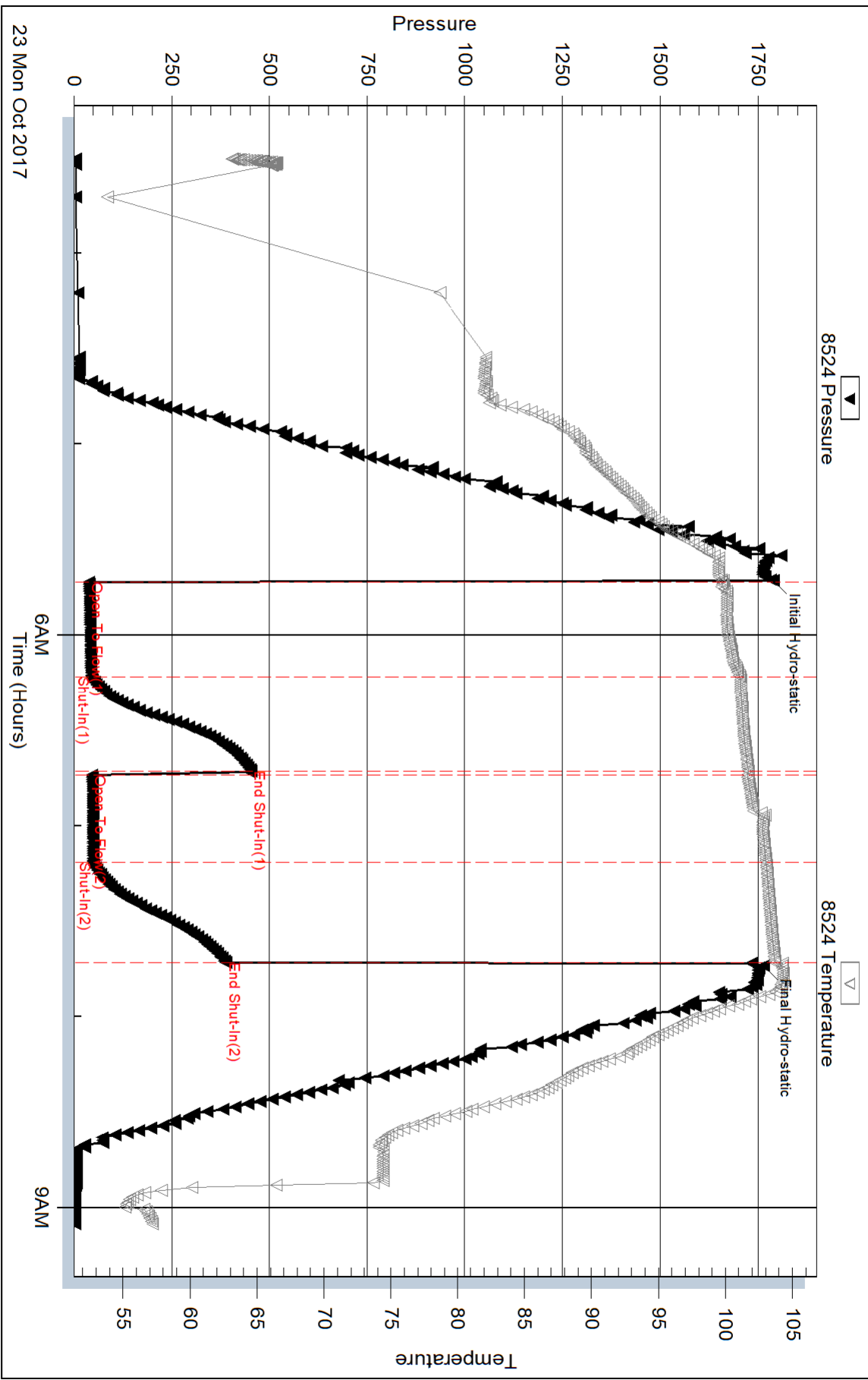
Serial #: 8524

Outside Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 2

Pressure vs. Time



23 Mon Oct 2017

6 AM
Time (Hours)

9 AM

Trilobite Testing, Inc

Ref. No: 63102

Printed: 2017.10.30 @ 13:24:19

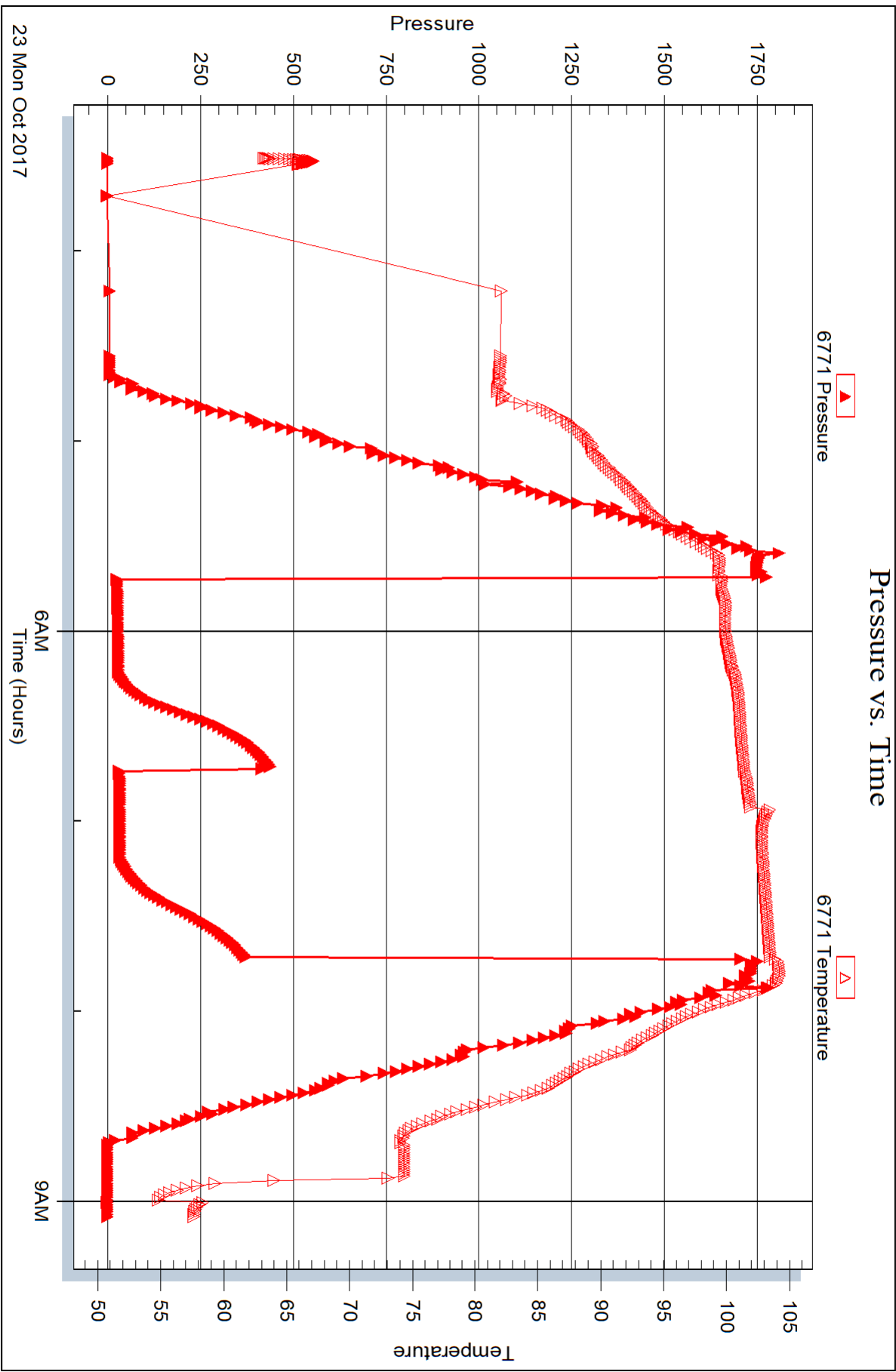
Serial #: 6771

Inside

Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.23 @ 16:10:56

End Date: 2017.10.23 @ 22:40:32

Job Ticket #: 63103 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:23:53



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63103

DST#: 3

ATTN: Marc Downing

Test Start: 2017.10.23 @ 16:10:56

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:58:02

Time Test Ended: 22:40:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3679.00 ft (KB) To 3694.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3694.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 81.23 psig @ 3680.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.23

End Date:

2017.10.23

Last Calib.:

2017.10.23

Start Time: 16:10:57

End Time:

22:40:32

Time On Btm:

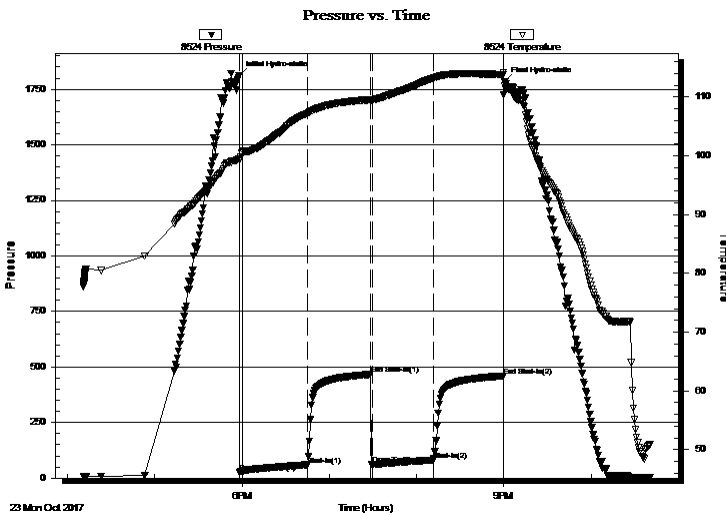
2017.10.23 @ 17:57:47

Time Off Btm:

2017.10.23 @ 21:00:32

TEST COMMENT: 45- IF- Built very slow ly to 4"
45- IS- No blow
45- FF- Built very slow ly to 2"
45- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1810.35	99.55	Initial Hydro-static
1	25.76	99.23	Open To Flow (1)
47	59.80	107.19	Shut-In(1)
91	466.65	109.53	End Shut-In(1)
92	61.65	109.48	Open To Flow (2)
134	81.23	113.20	Shut-In(2)
182	459.20	113.83	End Shut-In(2)
183	1781.97	111.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
111.00	MW, 15%M 85%W	1.28

Gas Rates

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

* Recovery from multiple tests



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63103

DST#: 3

ATTN: Marc Downing

Test Start: 2017.10.23 @ 16:10:56

GENERAL INFORMATION:

Formation: **LKC "E"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:58:02

Time Test Ended: 22:40:32

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3679.00 ft (KB) To 3694.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3694.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 3680.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.23

End Date:

2017.10.23

Last Calib.:

2017.10.23

Start Time:

16:10:57

End Time:

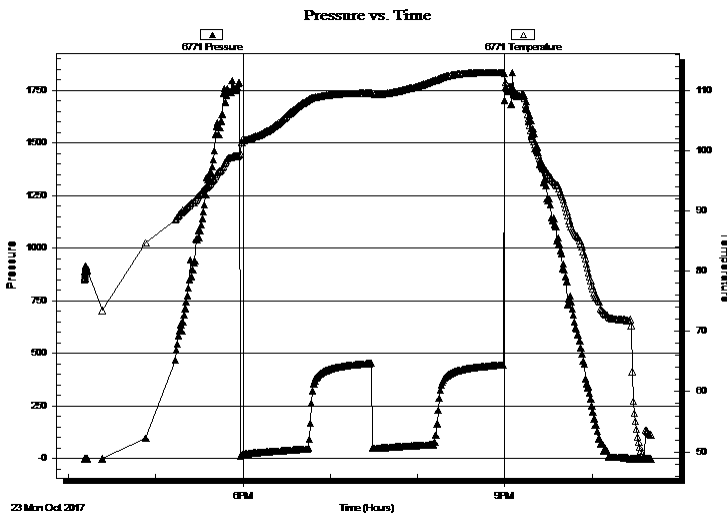
22:40:17

Time On Btm:

Time Off Btm:

TEST COMMENT: 45- IF- Built very slow ly to 4"
45- IS- No blow
45- FF- Built very slow ly to 2"
45- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
111.00	MW, 15%M 85%W	1.28

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63103

DST#: 3

ATTN: Marc Downing

Test Start: 2017.10.23 @ 16:10:56

Tool Information

Drill Pipe:	Length: 3645.00 ft	Diameter: 3.82 inches	Volume: 51.67 bbl	Tool Weight: 2000.00 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: 54000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3679.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	15.00 ft			
Tool Length:	35.00 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			3660.00	
Shut In Tool	5.00			3665.00	
Hydraulic tool	5.00			3670.00	
Packer	5.00			3675.00	20.00 Bottom Of Top Packer
Packer	4.00			3679.00	
Stubb	1.00			3680.00	
Recorder	0.00	6771	Inside	3680.00	
Recorder	0.00	8524	Outside	3680.00	
Perforations	11.00			3691.00	
Bullnose	3.00			3694.00	15.00 Bottom Packers & Anchor
Total Tool Length:	35.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63103

DST#: 3

ATTN: Marc Downing

Test Start: 2017.10.23 @ 16:10:56

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:

70000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
111.00	MW, 15%M 85%W	1.277

Total Length: 111.00 ft Total Volume: 1.277 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

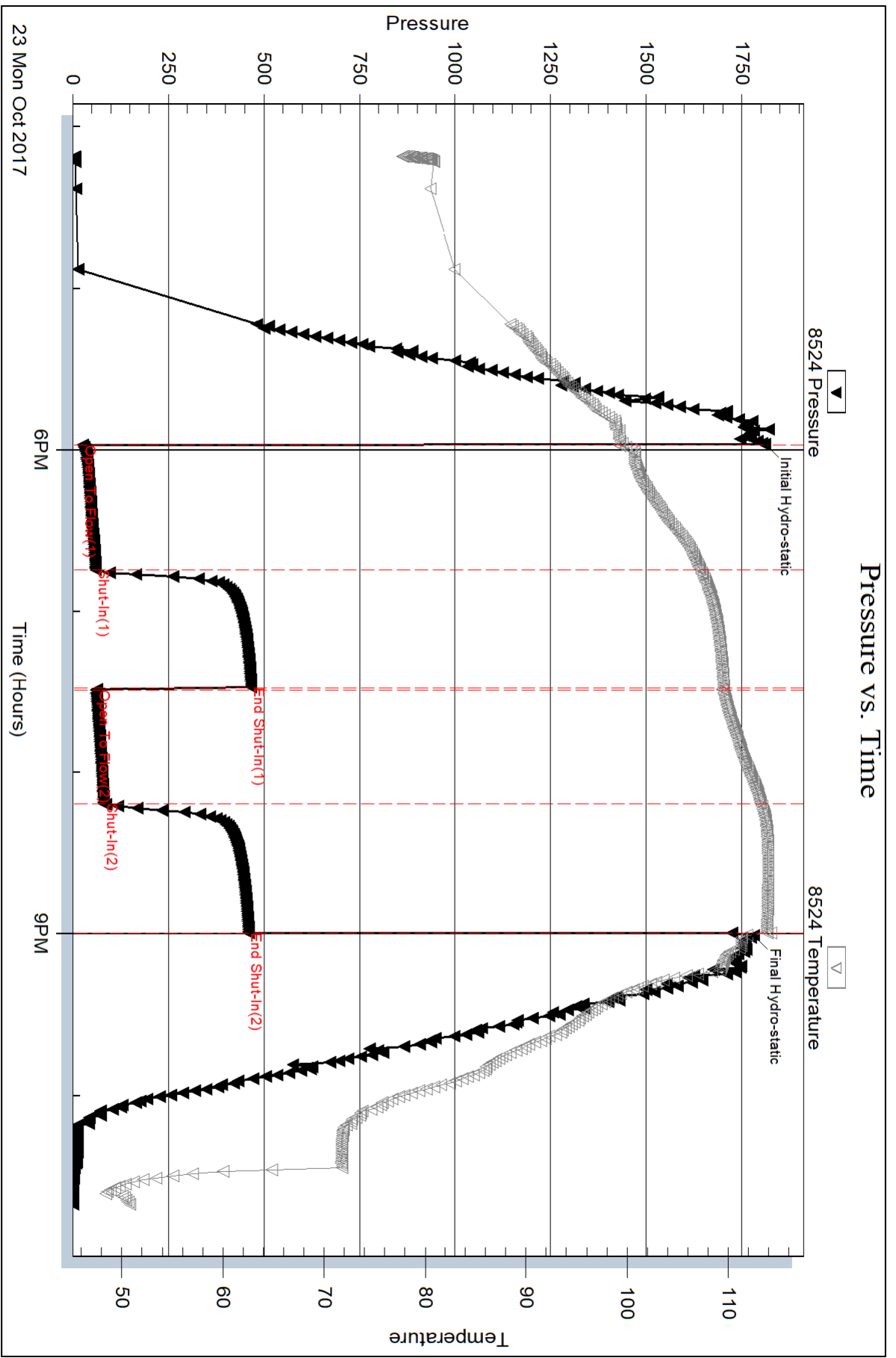
Recovery Comments: RW: .12 @ 54 deg

Serial #: 8524

Outside Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63103

Printed: 2017.10.30 @ 13:23:54

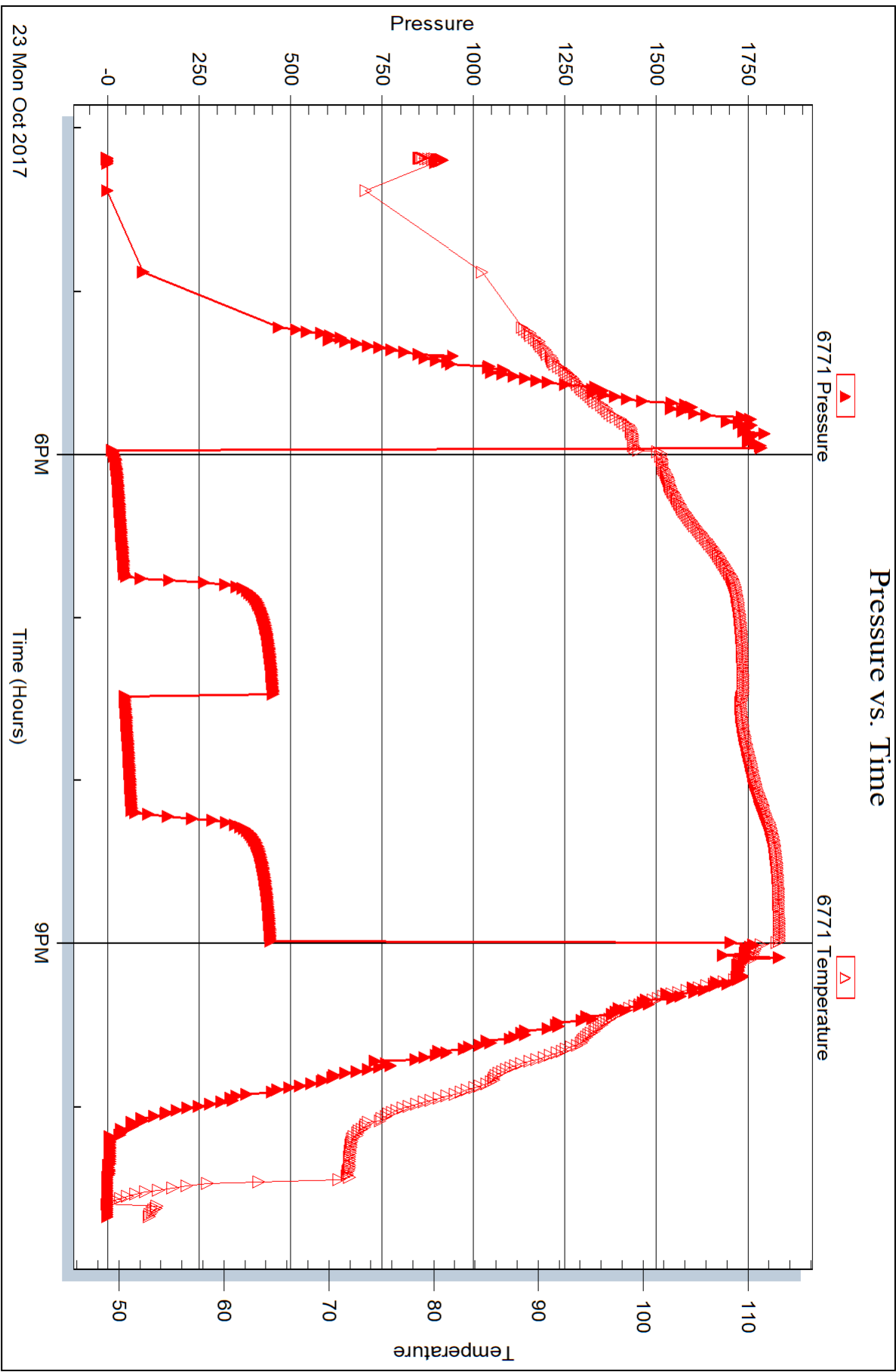
Serial #: 6771

Inside

Dow nung Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 63103

Printed: 2017.10.30 @ 13:23:54



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.24 @ 07:08:17

End Date: 2017.10.24 @ 13:44:23

Job Ticket #: 63104 DST #: 4

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:23:31



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63104

DST#: 4

ATTN: Marc Downing

Test Start: 2017.10.24 @ 07:08:17

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:07:08

Time Test Ended: 13:44:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3709.00 ft (KB) To 3727.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3727.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 67.06 psig @ 3710.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.24 End Date: 2017.10.24

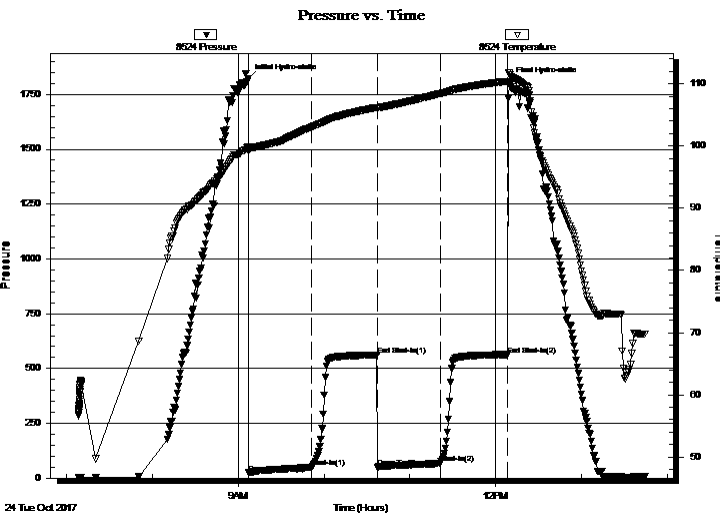
Last Calib.: 2017.10.24

Start Time: 07:08:18 End Time: 13:44:23

Time On Btm: 2017.10.24 @ 09:06:53

Time Off Btm: 2017.10.24 @ 12:09:23

TEST COMMENT: 45- IF- Built very slow ly to 4"
45- IS- No blow
45- FF- Built very slow ly to 4"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1821.16	99.88	Initial Hydro-static
1	24.22	99.17	Open To Flow (1)
45	48.91	103.05	Shut-In(1)
91	560.84	106.21	End Shut-In(1)
91	50.21	106.12	Open To Flow (2)
135	67.06	108.41	Shut-In(2)
182	563.15	110.39	End Shut-In(2)
183	1805.77	111.70	Final Hydro-static

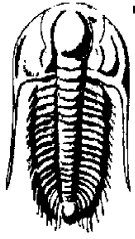
Recovery

Length (ft)	Description	Volume (bbl)
69.00	SOCMW, 5%O 45%M 50%W	0.68
10.00	CO	0.14

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63104

DST#: 4

ATTN: Marc Downing

Test Start: 2017.10.24 @ 07:08:17

GENERAL INFORMATION:

Formation: **LKC "G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 09:07:08

Time Test Ended: 13:44:23

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3709.00 ft (KB) To 3727.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3727.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 3710.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.24 End Date: 2017.10.24

Last Calib.: 2017.10.24

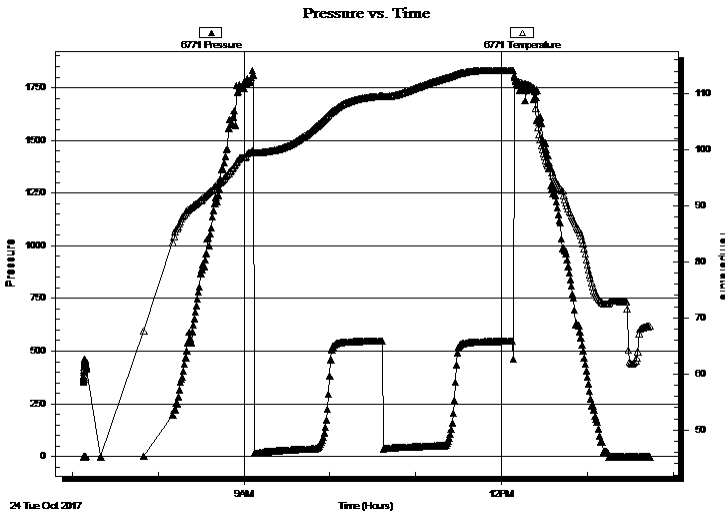
Start Time: 07:08:01 End Time: 13:43:51

Time On Btm:

Time Off Btm:

TEST COMMENT: 45- IF- Built very slow ly to 4"
45- IS- No blow
45- FF- Built very slow ly to 4"
45- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
69.00	SOCMW, 5%O 45%M 50%W	0.68
10.00	CO	0.14

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63104

DST#: 4

ATTN: Marc Downing

Test Start: 2017.10.24 @ 07:08:17

Tool Information

Drill Pipe:	Length: 3677.00 ft	Diameter: 3.82 inches	Volume: 52.12 bbl	Tool Weight: 2000.00 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: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3709.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

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

Change Over Sub	1.00			3690.00	
Shut In Tool	5.00			3695.00	
Hydraulic tool	5.00			3700.00	
Packer	5.00			3705.00	20.00 Bottom Of Top Packer
Packer	4.00			3709.00	
Stubb	1.00			3710.00	
Recorder	0.00	6771	Inside	3710.00	
Recorder	0.00	8524	Outside	3710.00	
Perforations	14.00			3724.00	
Bullnose	3.00			3727.00	18.00 Bottom Packers & Anchor
Total Tool Length:	38.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63104

DST#: 4

ATTN: Marc Downing

Test Start: 2017.10.24 @ 07:08:17

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

115000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
69.00	SOCMW, 5%O 45%M 50%W	0.682
10.00	CO	0.142

Total Length: 79.00 ft Total Volume: 0.824 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

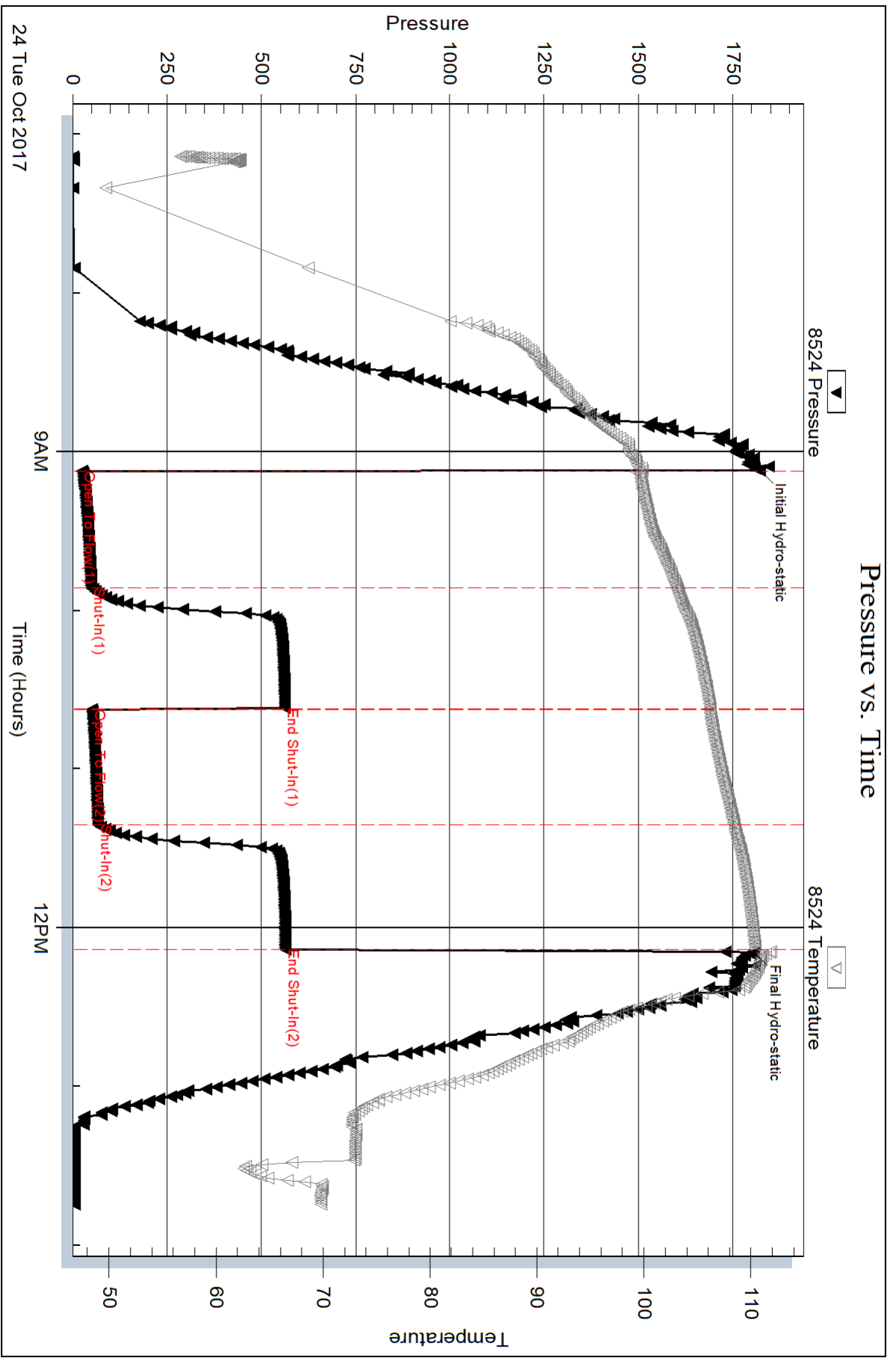
Recovery Comments: RW: .07@60deg

Serial #: 8524

Outside Dow nting Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 4



Triobite Testing, Inc

Ref. No: 63104

Printed: 2017.10.30 @ 13:23:32

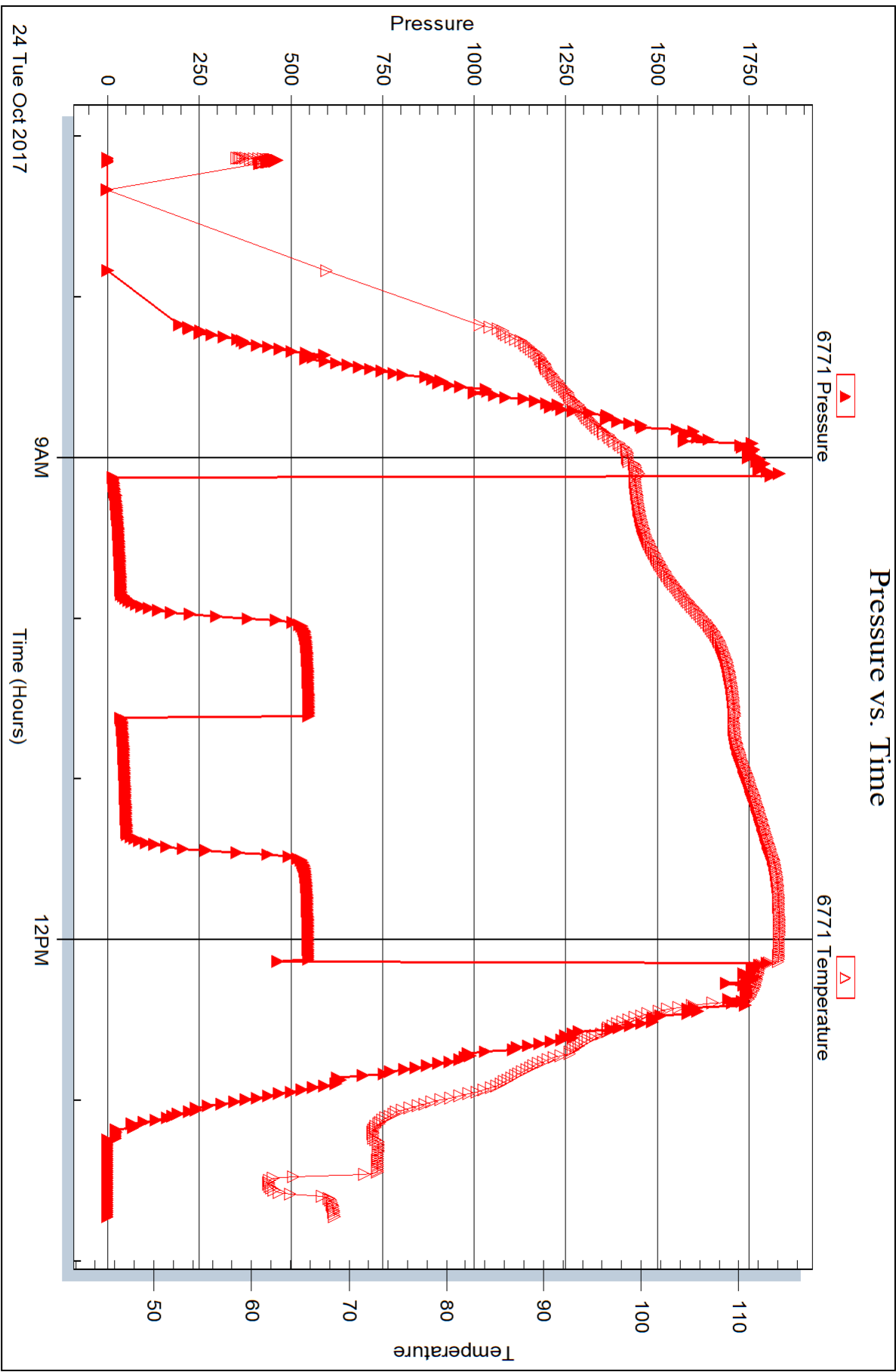
Serial #: 6771

Inside

Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 4





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.25 @ 00:41:58

End Date: 2017.10.25 @ 07:33:49

Job Ticket #: 63105 DST #: 5

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:17:12

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

Cook-Priddy #1-35

DST # 5

LKC "H-K"

2017.10.25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63105

DST#: 5

ATTN: Marc Downing

Test Start: 2017.10.25 @ 00:41:58

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:51:04

Time Test Ended: 07:33:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3738.00 ft (KB) To 3828.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3828.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 46.09 psig @ 3739.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.25 End Date: 2017.10.25

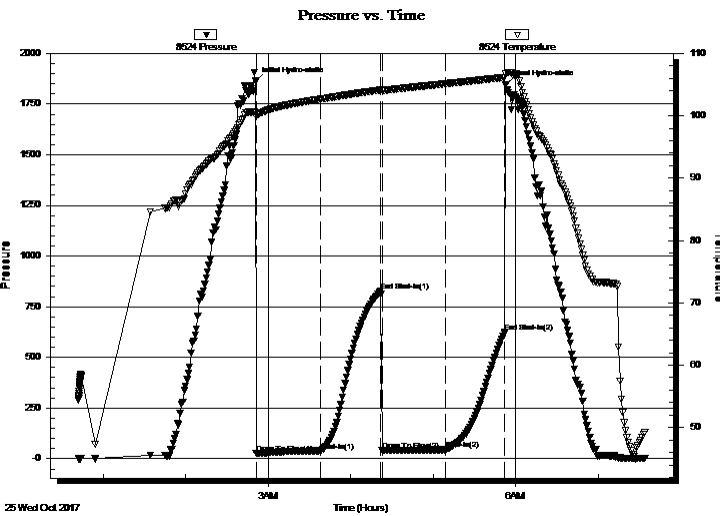
Last Calib.: 2017.10.25

Start Time: 00:41:59 End Time: 07:33:49

Time On Btm: 2017.10.25 @ 02:50:49

Time Off Btm: 2017.10.25 @ 05:52:49

TEST COMMENT: 45- IF- Built very slow ly to 3"
45- IS- No blow
45- FF- Built very slow ly to 3"
45- FS- No blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1862.67	100.45	Initial Hydro-static
1	27.30	99.88	Open To Flow (1)
48	39.32	102.69	Shut-In(1)
91	826.04	104.14	End Shut-In(1)
93	41.08	104.04	Open To Flow (2)
139	46.09	105.15	Shut-In(2)
182	622.97	106.17	End Shut-In(2)
182	1845.92	106.79	Final Hydro-static

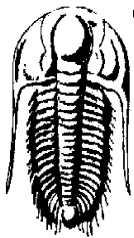
Recovery

Length (ft)	Description	Volume (bbl)
48.00	OCM, 30%O 70%M	0.38

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63105

DST#: 5

ATTN: Marc Downing

Test Start: 2017.10.25 @ 00:41:58

GENERAL INFORMATION:

Formation: **LKC "H-K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:51:04

Time Test Ended: 07:33:49

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3738.00 ft (KB) To 3828.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 3828.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771

Inside

Press@RunDepth: psig @ 3739.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.25

End Date:

2017.10.25

Last Calib.:

2017.10.25

Start Time: 00:41:49

End Time:

07:33:39

Time On Btm:

Time Off Btm:

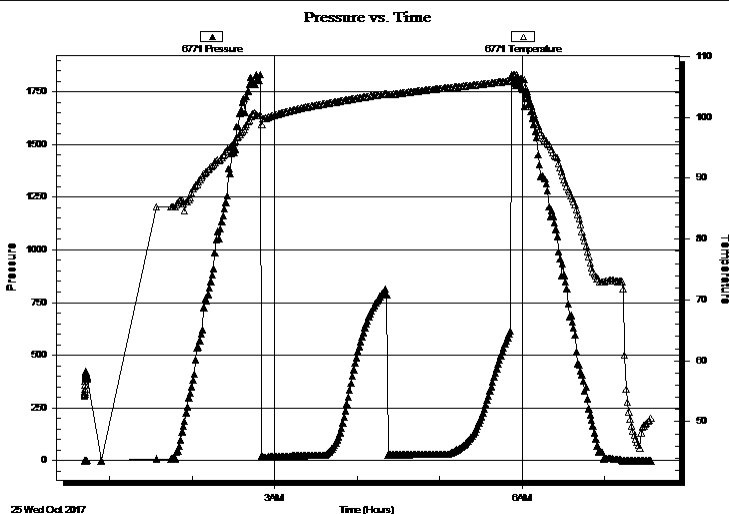
TEST COMMENT: 45- IF- Built very slow ly to 3"

45- IS- No blow

45- FF- Built very slow ly to 3"

45- FS- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
48.00	OCM, 30%O 70%M	0.38

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63105

DST#: 5

ATTN: Marc Downing

Test Start: 2017.10.25 @ 00:41:58

Tool Information

Drill Pipe:	Length: 3708.00 ft	Diameter: 3.82 inches	Volume: 52.56 bbl	Tool Weight: 2000.00 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: 62000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 53000.00 lb
Depth to Top Packer:	3738.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	90.00 ft			
Tool Length:	110.00 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			3719.00	
Shut In Tool	5.00			3724.00	
Hydraulic tool	5.00			3729.00	
Packer	5.00			3734.00	20.00 Bottom Of Top Packer
Packer	4.00			3738.00	
Stubb	1.00			3739.00	
Recorder	0.00	6771	Inside	3739.00	
Recorder	0.00	8524	Outside	3739.00	
Perforations	21.00			3760.00	
Change Over Sub	1.00			3761.00	
Drill Pipe	63.00			3824.00	
Change Over Sub	1.00			3825.00	
Bullnose	3.00			3828.00	90.00 Bottom Packers & Anchor

Total Tool Length: 110.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63105

DST#: 5

ATTN: Marc Downing

Test Start: 2017.10.25 @ 00:41:58

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

34 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.59 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
48.00	OCM, 30%O 70%M	0.384

Total Length: 48.00 ft Total Volume: 0.384 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

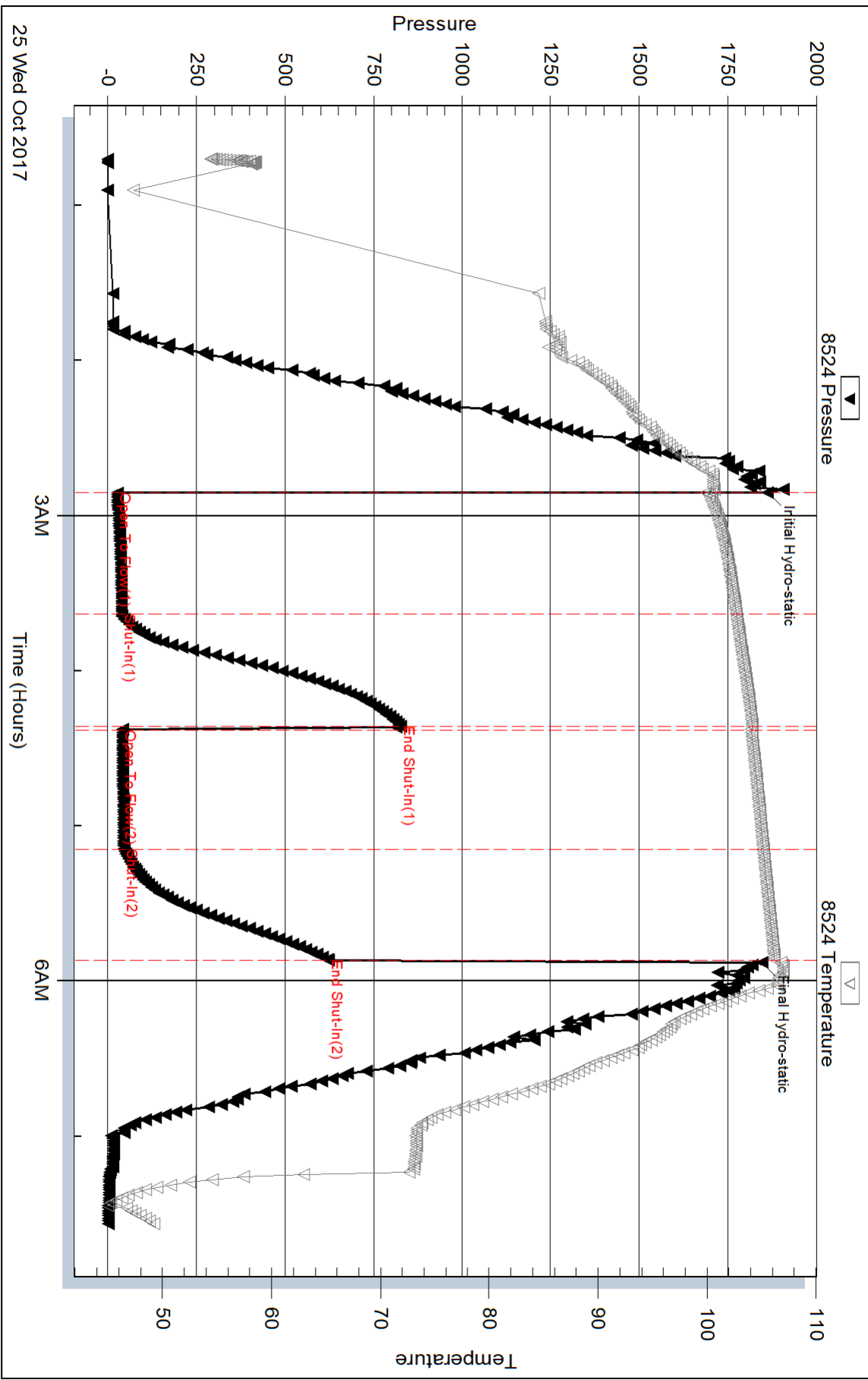
Serial #: 8524

Outside Dow nting Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 5

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 63105

Printed: 2017.10.30 @ 13:17:13

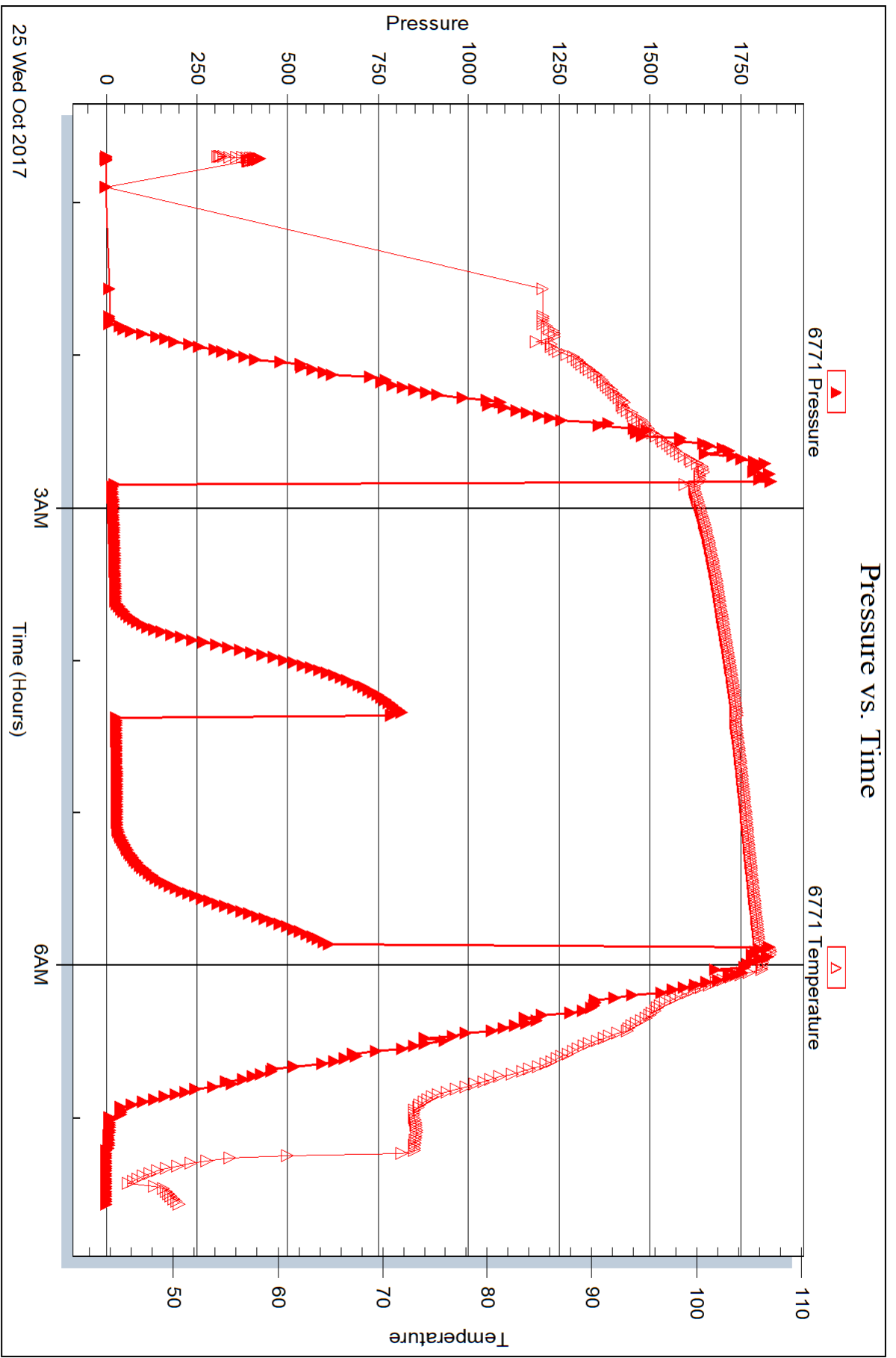
Serial #: 6771

Inside

Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 5





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Cook-Priddy #1-35

35-11S-23W Trego,KS

Start Date: 2017.10.25 @ 21:58:55

End Date: 2017.10.26 @ 03:18:46

Job Ticket #: 63106 DST #: 6

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2017.10.30 @ 13:14:25



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Downing Nelson Oil Co., Inc

35-11S-23W Trego, KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63106

DST#: 6

ATTN: Marc Downing

Test Start: 2017.10.25 @ 21:58:55

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:51:01

Time Test Ended: 03:18:46

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 73

Interval: 3961.00 ft (KB) To 4000.00 ft (KB) (TVD)

Reference Elevations: 2367.00 ft (KB)

Total Depth: 4000.00 ft (KB) (TVD)

2359.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8524 Outside

Press@RunDepth: 29.06 psig @ 3962.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.10.25

End Date:

2017.10.26

Last Calib.:

2017.10.26

Start Time: 21:58:56

End Time:

03:18:46

Time On Btm:

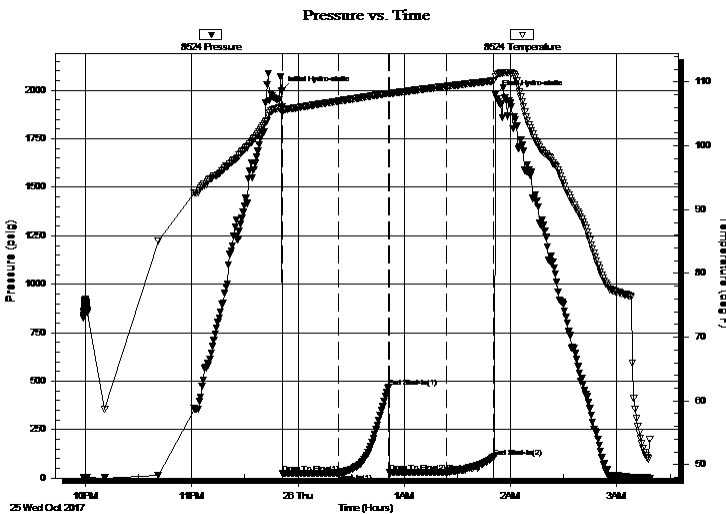
2017.10.25 @ 23:50:46

Time Off Btm:

2017.10.26 @ 01:51:31

TEST COMMENT: 30- IF- 1/2" blow
30- IS- No blow
30- FF- No blow
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1998.91	106.04	Initial Hydro-static
1	22.86	105.24	Open To Flow (1)
32	26.35	106.99	Shut-In(1)
61	470.27	108.24	End Shut-In(1)
61	27.43	108.13	Open To Flow (2)
94	29.06	109.34	Shut-In(2)
120	109.04	110.19	End Shut-In(2)
121	1976.85	110.91	Final Hydro-static

Recovery

Gas Rates

Length (ft)	Description	Volume (bbl)
5.00	OSM	0.02

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63106

DST#: 6

ATTN: Marc Downing

Test Start: 2017.10.25 @ 21:58:55

Tool Information

Drill Pipe:	Length: 3930.00 ft	Diameter: 3.82 inches	Volume: 55.71 bbl	Tool Weight: 2000.00 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: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	3961.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	39.00 ft			
Tool Length:	59.00 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			3942.00	
Shut In Tool	5.00			3947.00	
Hydraulic tool	5.00			3952.00	
Packer	5.00			3957.00	20.00 Bottom Of Top Packer
Packer	4.00			3961.00	
Stubb	1.00			3962.00	
Recorder	0.00	6771	Inside	3962.00	
Recorder	0.00	8524	Outside	3962.00	
Perforations	2.00			3964.00	
Change Over Sub	1.00			3965.00	
Drill Pipe	31.00			3996.00	
Change Over Sub	1.00			3997.00	
Bullnose	3.00			4000.00	39.00 Bottom Packers & Anchor

Total Tool Length: 59.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co., Inc

35-11S-23W Trego,KS

PO Box 1019
Hays, KS 67601

Cook-Priddy #1-35

Job Ticket: 63106

DST#: 6

ATTN: Marc Downing

Test Start: 2017.10.25 @ 21:58:55

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: 54.00 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 bbl
5.00	OSM	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

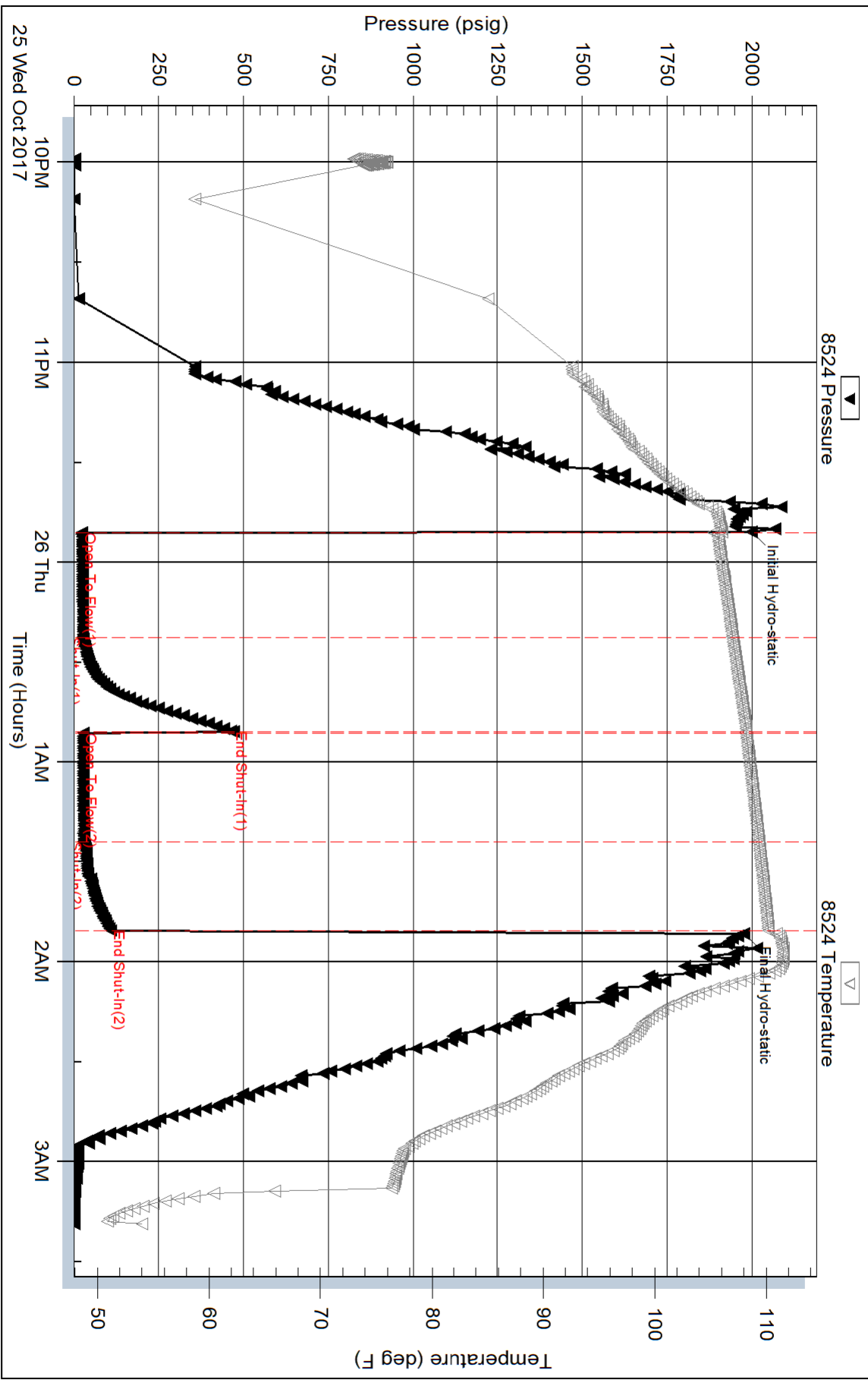
Serial #: 8524

Outside Dow nting Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 6

Pressure vs. Time



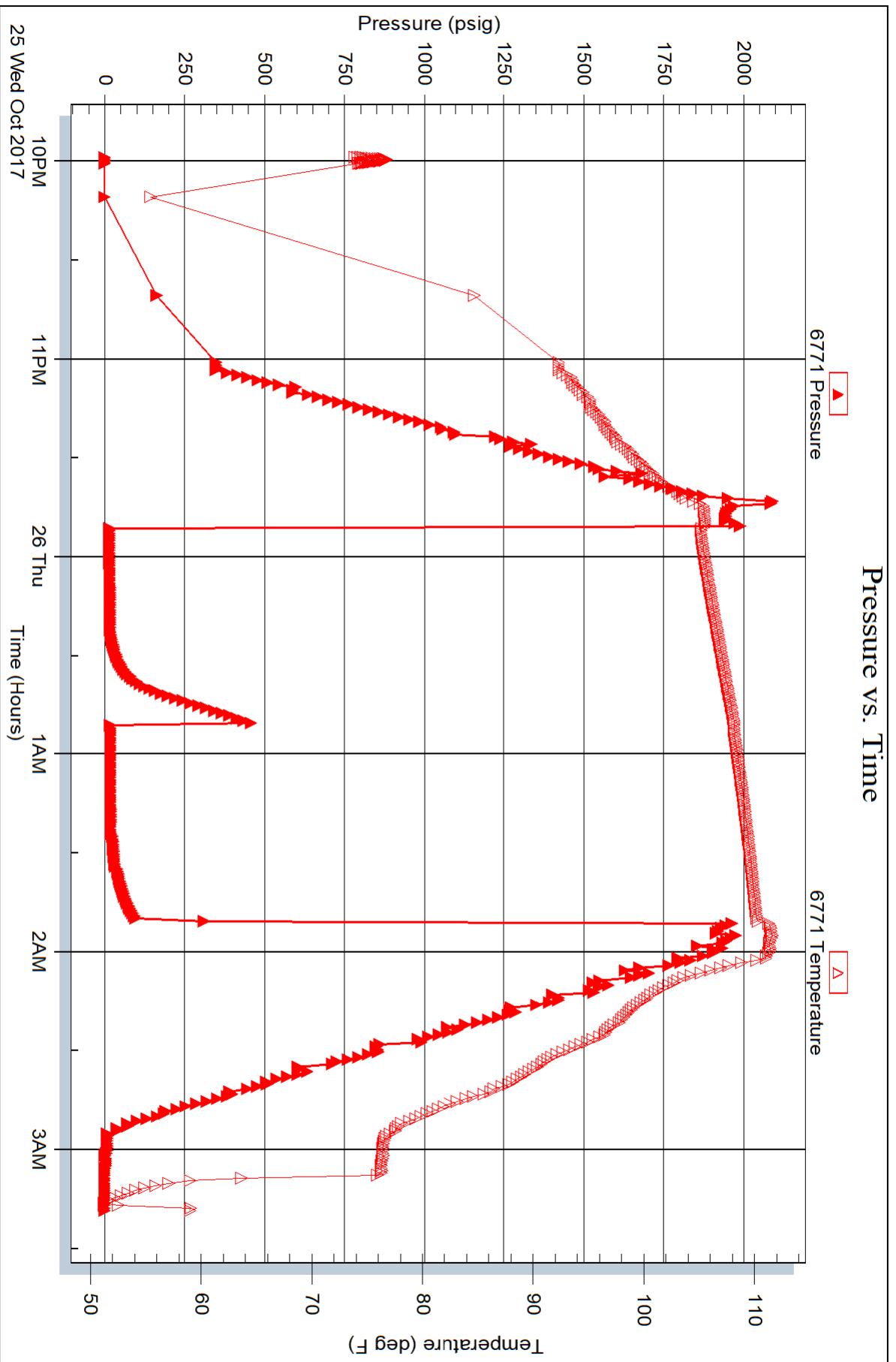
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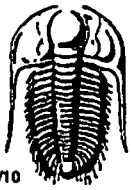
Inside

Downing Nelson Oil Co., Inc

Cook-Priddy #1-35

DST Test Number: 6





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63101

Well Name & No. Cook - Priddy #1-35 Test No. 1 Date 10/22/17
 Company Downing Nelson Oil Co, Inc. Elevation 2367 KB 2389 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 35 Twp. 11 S Rge. 23 W Co. Trego State KS

Interval Tested 3580-3645 Zone Tested Toronto @ LKC "A"
 Anchor Length 65' Drill Pipe Run 3551 Mud Wt. 8.6
 Top Packer Depth 3575 Drill Collars Run 32 Vis 58
 Bottom Packer Depth 3580 Wt. Pipe Run --- WL 2.4
 Total Depth 3645 Chlorides 2,600 ppm System LCM 3#

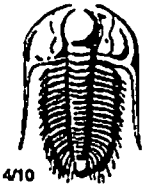
Blow Description IF - Surface blow died 5 mins
IS2 - No blow
FF - Surface blow died in 4 mins Fished tool surface blow 1 min
FS2 - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>25</u>	<u>DCM</u>		<u>25</u>		<u>25</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 25' BHT 105° Gravity 34 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1757 Test 1050 T-On Location 1247
 (B) First Initial Flow 47 Jars --- T-Started 1303
 (C) First Final Flow 53 Safety Joint --- T-Open 1710
 (D) Initial Shut-In 439 Circ Sub --- T-Pulled 1910
 (E) Second Initial Flow 56 Hourly Standby --- T-Out 2057
 (F) Second Final Flow 62 Mileage 74 RT 55.50 Comments ---
 (G) Final Shut-In 426 Sampler ---
 (H) Final Hydrostatic 1739 Straddle ---
 Shale Packer ---
 Ruined Shale Packer ---
 Ruined Packer ---
 Extra Packer ---
 Extra Copies ---
 Extra Recorder ---
 Day Standby ---
 Accessibility ---
 Sub Total 1105.50 Sub Total 1105.50
 Total 1105.50 Total 1105.50
 MP/DST Disc't ---

Approved By _____ Our Representative Brannan Lonsdale



TRIOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63102

Well Name & No. Cook-Priddy #1-35 Test No. 2 Date 10/23/17
 Company Downing Nelson Oil Co, Inc Elevation 2367 KB 2359 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 35 Twp. 11 S Rge. 23 Wco. Trego State KS

Interval Tested 3641-3666 Zone Tested LKC "C"
 Anchor Length 25' Drill Pipe Run 3616 Mud Wt. 8.8
 Top Packer Depth 3636 Drill Collars Run 32 Vis 54
 Bottom Packer Depth 3641 Wt. Pipe Run --- WL 2.6
 Total Depth 3666 Chlorides 2,500 ppm System LCM 2#

Blow Description IF - Weak surface blow
ISF - No blow
FF - Surface blow died 3mins flushed tool surface blow low
FSF No blow

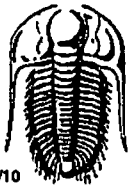
Rec	Feet of	%gas	%oil	%water	%mud
<u>45</u>	<u>SOCM</u>		<u>5</u>	<u>95</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 45' BHT 104° Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 1789 Test 1050 T-On Location 0320
 (B) First Initial Flow 39 Jars --- T-Started 0330
 (C) First Final Flow 45 Safety Joint --- T-Open 0542
 (D) Initial Shut-In 453 Circ Sub --- T-Pulled 0742
 (E) Second Initial Flow 46 Hourly Standby --- T-Out 0904
 (F) Second Final Flow 49 Mileage 74 RT 55.50 Comments ---
 (G) Final Shut-In 388 Sampler ---
 (H) Final Hydrostatic 1765 Straddle ---
 Ruined Shale Packer ---

Initial Open 30 Shale Packer ---
 Initial Shut-In 30 Extra Packer ---
 Final Flow 30 Extra Recorder ---
 Final Shut-In 30 Day Standby ---
 Accessibility ---
 Sub Total 1105.50 Sub Total 1105.50
 Total 1105.50 MP/DST Disc't ---

Approved By --- Our Representative Brannan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63103

Well Name & No. Cook - Paddy #1-35 Test No. 3 Date 10/23/17
 Company Downing Nelson Oil Co, Inc. Elevation 2367 KB 2359 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 35 Twp. 11 S Rge. 23 W Co. Trego State KS

Interval Tested 3679-3694 Zone Tested LKC "E"
 Anchor Length 15' Drill Pipe Run 3645 Mud Wt. 8.9
 Top Packer Depth 3674 Drill Collars Run 32 Vis 48
 Bottom Packer Depth 3679 Wt. Pipe Run --- WL 7.6
 Total Depth 3694 Chlorides 2,500 ppm System LCM 2st

Blow Description IF - Built slowly to 4"
ISI - No blow
FF - Built very slowly to 2"
FST - No blow

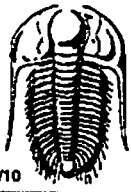
Rec	Feet of	%gas	%oil	%water	%mud
<u>111</u>	<u>MW</u>			<u>85</u>	<u>15</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 111' BHT 114° Gravity --- API RW .12 @ 54 °F Chlorides 20,000 ppm

(A) Initial Hydrostatic 1810 Test 1050 T-On Location 1608
 (B) First Initial Flow 26 Jars _____ T-Started 1611
 (C) First Final Flow 60 Safety Joint _____ T-Open 1758
 (D) Initial Shut-In 467 Circ Sub _____ T-Pulled 2058
 (E) Second Initial Flow 62 Hourly Standby _____ T-Out 2241
 (F) Second Final Flow 81 Mileage 74 RT 55.50 Comments _____
 (G) Final Shut-In 459 Sampler _____
 (H) Final Hydrostatic 1782 Straddle _____

Initial Open 45 Shale Packer _____
 Initial Shut-In 45 Ruined Packer _____
 Final Flow 45 Extra Packer _____
 Final Shut-In 45 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 1105.50 Sub Total _____
 Total 1105.50 Total _____
 MP/DST Disc't _____

Approved By _____ Our Representative Brannan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63104

Well Name & No. Cook-Priddy #1-35 Test No. 4 Date 10/24/17
 Company Downing Nelson Oil Co, Inc. Elevation 2367 KB 2359 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 35 Twp. 11 S Rge. 23 W Co. Trego State KS

Interval Tested 3709-3727 Zone Tested LKC "G"
 Anchor Length 18' Drill Pipe Run 3677 Mud Wt. 8.9
 Top Packer Depth 3704 Drill Collars Run 32 Vis 48
 Bottom Packer Depth 3709 Wt. Pipe Run — WL 7.6
 Total Depth 3727 Chlorides 3500 ppm System LCM 2nd

Blow Description IF - Built very slowly to 4"
ISI - No blow
FF - Built very slowly to 4"
FST - No blow

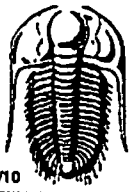
Rec	Feet of	%gas	%oil	%water	%mud
<u>69</u>	<u>SOCMW</u>		<u>5%</u>	<u>50%</u>	<u>45%</u>
<u>10</u>	<u>CO</u>				

Rec Total 79' BHT 110° Gravity 34 API RW .07 @ 60° F Chlorides 115,000 ppm

(A) Initial Hydrostatic 1821 Test 1050 T-On Location 0655
 (B) First Initial Flow 24 Jars — T-Started 0708
 (C) First Final Flow 49 Safety Joint — T-Open 0906
 (D) Initial Shut-In 561 Circ Sub — T-Pulled 1206
 (E) Second Initial Flow 50 Hourly Standby — T-Out 1344
 (F) Second Final Flow 67 Mileage 74 RT 55.50
 (G) Final Shut-In 563 Sampler —
 (H) Final Hydrostatic 1806 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
 Total 1105.50
 Sub Total 1105.50 MP/DST Disc't —

Approved By _____ Our Representative Brannan Lonsdale



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 63105

Well Name & No. Cook-Priddy #1-35 Test No. 5 Date 10/25/17
 Company Downing Nelson Oil Co, Inc Elevation 2367 KB 2359 GL
 Address PO Box 119 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #4
 Location: Sec. 35 Twp. 11 S Rge. 23 W Co. Trego State KS

Interval Tested 3738-3828 Zone Tested LKC "H-K"
 Anchor Length 90' Drill Pipe Run 9708 Mud Wt. 9.2
 Top Packer Depth 3733 Drill Collars Run 32 Vis 48
 Bottom Packer Depth 3738 Wt. Pipe Run — WL 2.6
 Total Depth 3828 Chlorides 3,000 ppm System LCM 2nd

Blow Description IF - Built very slowly to 3"
ISI - No blow
FF - Built very slowly to 3"
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>48</u>	<u>OCM</u>		<u>30</u>		<u>70</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 48' BHT 106° Gravity 34 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1863 Test 1050 T-On Location 0030
 (B) First Initial Flow 27 Jars — T-Started 0041
 (C) First Final Flow 39 Safety Joint — T-Open 0250
 (D) Initial Shut-In 826 Circ Sub — T-Pulled 0550
 (E) Second Initial Flow 41 Hourly Standby — T-Out 0733
 (F) Second Final Flow 46 Mileage 74 RT 55.50 Comments —
 (G) Final Shut-In 623 Sampler —
 (H) Final Hydrostatic 1846 Straddle —

Initial Open 45 Shale Packer —
 Initial Shut-In 45 Ruined Packer —
 Final Flow 4.5 Extra Packer —
 Final Shut-In 45 Extra Recorder —
 Day Standby — Sub Total 0
 Accessibility — Total 1105.50
 Sub Total 1105.50 MP/DST Disc't —

Approved By — Our Representative Brannan Lonsdale

Marc A. Downing
Consulting Petroleum Geologist

Geologic Report
Drilling Time and Sample Log

Operator Downing-Nelson Oil Co., Inc.		Elevation	
Lease Cook-Priddy		KB 2362	
API # 15-195-23030-0000		DF 2360	
Field Wildcat		GL 2354	
Location 490' FNL & 330' FEL		Casing Record	
Sec. 35 Twp. 11s Rge. 23w		Surface 8 5/8" @ 222'	
County Trego State Kansas		Production None	
Formation Top Anhydrite		Electrical Surveys	
Sample tops 1802		CNDL, DIL, MEL, Sonic	
Log Tops 1801		Datum +561	
Datum +520		Struct Comp -12	
Topeka 3362		Base Anhydrite 1855	
Heebner 3582		Toronto 3605	
Toronto 3605		LKC 3618	
LKC 3618		BKC 3847	
BKC 3847		Marmaton 3954	
Marmaton 3954		Cherokee Sh 3997	
Cherokee Sh 3997		Conglomerate 4055	
Conglomerate 4055		Total Depth 4074	
Total Depth 4074			

Discovery Drilling, Rig #4
 Commenced **10-18-17** Completed **8-20-17**
 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 plug and abandon the well.

Respectfully Submitted,
 Marc A. Downing

ROCK TYPES
 Carbon Sh
 Lmst (w/ r) shale, gry

ACCESSORIES
 Chl vari Dolprfm

MINERAL
 Chert, dark
 Chert, White

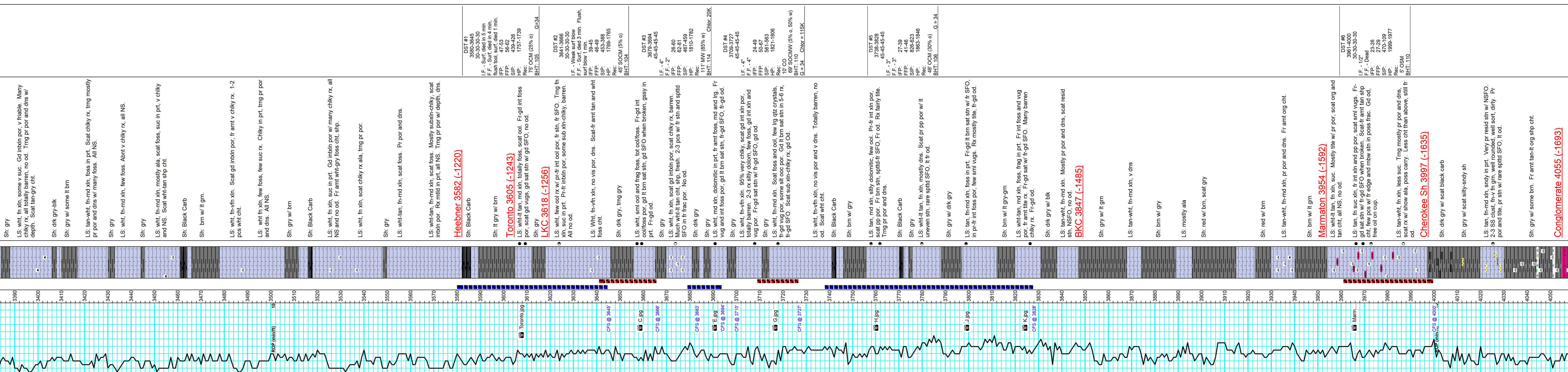
MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

OIL SHOWS
 Even Sin
 Sin 60-75 %
 Spotted Sin 25-50 %
 Spotted Sin 1-25 %
 Questionable Sin
 Dead Oil Sin
 Fluorescence

OTHER SYMBOLS
 DST
 DST int
 DST alt
 C oil pipe
 H tail pipe

STRINGER
 Dolomite
 Sandstone
 Shale
 Carb shale

Printed by GEOstrip VC Striplog version 4.0.8.18 (www.gstripc.ca)



Geological Descriptions
 Oil Shows
 Lithology
 DST
 Depth | Intervals
 Core Interval
 DST Interval
 ROP (m/min)
 1:240 Imperial
 ROP (m/min)
 Toronto.jpg
 C.jpg
 CFS @ 3686
 CFS @ 3683
 E.jpg
 CFS @ 3684
 CFS @ 3710
 G.jpg
 CFS @ 3727
 H.jpg
 K.jpg
 CFS @ 4000
 RTD @ 4074

JOB LOG

SWIFT Services, Inc.

DATE 10/18/17	PAGE NO. 1
TICKET NO. 30531	

CUSTOMER Downing & Nelson		WELL NO. #1-35		LEASE Cook-Arddy		JOB TYPE Cmt Surface	
------------------------------	--	-------------------	--	---------------------	--	-------------------------	--

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

	2100							On location, Rig still drilling @ 150! 150 SKS std Cmt, 2% gel, 3% CC
	2220							Rig Running Casing - 8 5/8" 23# Fin Casing
	2225							Hook up to circulate
	2240							Fin Circulation,
	2245							Hook up to Swift.
	2250	4					100	start H ₂ O Ahead
	2255	4	5				100	Fin H ₂ O, start Cmt,
	2300	5	36				Val	Fin Cmt, start Displacement
	2310	5	12 3/4				200	Fin Cmt ^{Displacement} , Cmt Circulating. (Circ 20 SKS)
	2315							Close in, Release trk,
	2330							Washup, Rack up Job Complete

THANKS,
Jon, David, Kirby

SWIFT Services, Inc.

DATE 10-26-17 PAGE NO.

CUSTOMER Downing Nelson

WELL NO. 1-35

LEASE Cook - Pridy

JOB TYPE Rotary PRA

TICKET NO. 30857

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2000							On location
	2100	5	10			200		1st plug @ 1840' - 50 sks cmt pump wtr spacer
		5	13			200		pump cmt
	2110	5	35			200		Disp.
								2nd plug @ 1010 100 sks cmt
	2140	5	5			200		pump wtr spacer
		5	26			200		pump cmt
	2145	5	2			200		Disp
								3rd plug @ 275 50 sks cmt
	2205	5	5					pump wtr spacer
		5	13					pump cmt
	2210	5	2					Disp
	2320	2	3			0		Top off @ 40' 10 sks cmt
	2325	2	8			0		plug rat hole - 30 sks cmt
	2330	2	4			0		plug mouse hole - 15 sks cmt
	2330							Job complete Thanks David Zaid & Isaac