

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

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
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:					

<div style="text-align: center;"> CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used Report all strings set-conductor, surface, intermediate, production, etc. </div>							
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: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives

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 (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water	Bbls.	Gas-Oil Ratio Gravity

<p>DISPOSITION OF GAS:</p> <p><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease</p> <p><i>(If vented, Submit ACO-18.)</i></p>	<p>METHOD OF COMPLETION:</p> <p><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled</p> <p><i>(Submit ACO-5)</i> <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i></p>	<p>PRODUCTION INTERVAL:</p> <p>Top Bottom</p>	

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record (Amount and Kind of Material Used)

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHMIDT FAMILY 1-6
Doc ID	1413235

All Electric Logs Run

Micro
Sonic
Compensated Density Neutron
Dual Induction

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHMIDT FAMILY 1-6
Doc ID	1413235

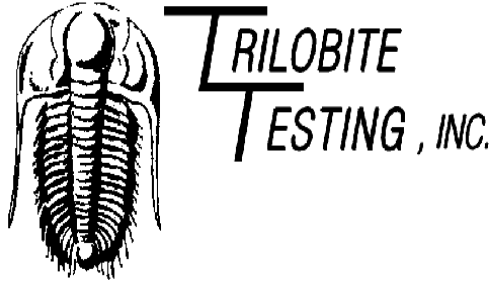
Tops

Name	Top	Datum
Top Anhydrite	1227'	+810
Base Anhydrite	1266'	+771
Topeka	3020'	-983
Heebner	3283'	-1246
Toronto	3308'	-1271
LKC	3330'	-1293
BKC	3568'	-1531
Reworked Arbuckle	3640'	-1603
Arbuckle	3684'	-1691

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	SCHMIDT FAMILY 1-6
Doc ID	1413235

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	1021	SMDC	350	2% Gel & 3% CC



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Al Downing ,Marc Dow

Schmidt Family #1-6

6-15s-18w Ellis,KS

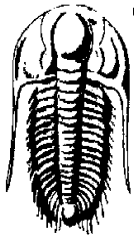
Start Date: 2018.06.18 @ 23:35:34

End Date: 2018.06.19 @ 04:56:13

Job Ticket #: 64227 DST #: 1

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

Printed: 2018.06.19 @ 10:01:52



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Schmidt Family #1-6

Job Ticket: 64227

DST#: 1

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.06.18 @ 23:35:34

GENERAL INFORMATION:

Formation: **LKC D**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 01:07:44

Time Test Ended: 04:56:13

Test Type: Conventional Straddle (Initial)

Tester: Ray Schw ager

Unit No: 77

Interval: 3366.00 ft (KB) To 3390.00 ft (KB) (TVD)

Reference Elevations: 2036.00 ft (KB)

Total Depth: 3728.00 ft (KB) (TVD)

2029.00 ft (CF)

Hole Diameter: 7.88 inchesHole Condition: Poor

KB to GR/CF: 7.00 ft

Serial #: 8360 Inside

Press@RunDepth: 22.61 psig @ 3367.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.06.18

End Date:

2018.06.19

Last Calib.:

2018.06.19

Start Time: 23:35:34

End Time:

04:56:13

Time On Btm:

2018.06.19 @ 01:06:59

Time Off Btm:

2018.06.19 @ 03:13:44

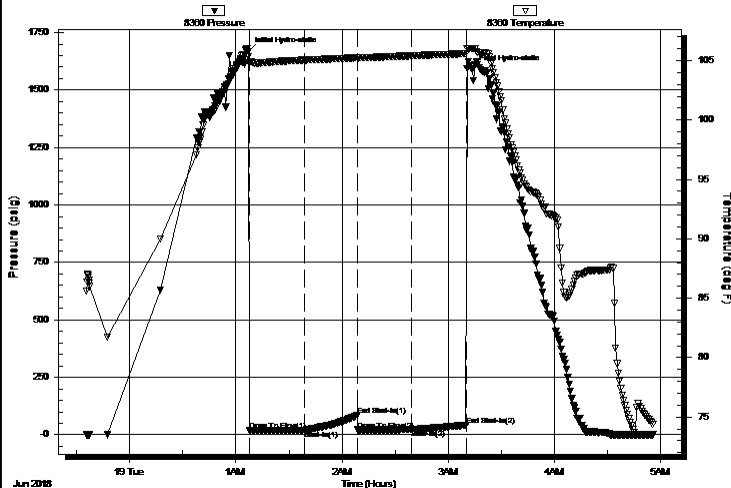
TEST COMMENT: 30-IFP-surface blow died in 15 min

30-ISIP-no blow

30-FFP-no blow

30-FSIP-no blow

Pressure vs. Time



PRESSURE SUMMARY

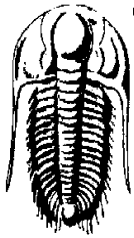
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1666.29	105.33	Initial Hydro-static
1	19.31	104.74	Open To Flow (1)
32	20.52	105.04	Shut-In(1)
62	83.98	105.23	End Shut-In(1)
62	21.57	105.20	Open To Flow (2)
93	22.61	105.40	Shut-In(2)
124	42.21	105.58	End Shut-In(2)
127	1588.67	106.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Schmidt Family #1-6

Job Ticket: 64227

DST#: 1

ATTN: Al Dow ning ,Marc Dow

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Time Test Ended: 04:56:13

Test Type: Conventional Straddle (Initial)

Tester: Ray Schw ager

Unit No: 77

Interval: 3366.00 ft (KB) To 3390.00 ft (KB) (TVD)

Total Depth: 3728.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Poor

Reference Elevations: 2036.00 ft (KB)

2029.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8373 Below (Straddle)

Press@RunDepth: psig @ 3411.00 ft (KB)

Start Date: 2018.06.18

End Date:

2018.06.19

Start Time: 23:35:06

End Time:

04:53:15

Capacity: 8000.00 psig

Last Calib.: 2018.06.19

Time On Btm:

Time Off Btm:

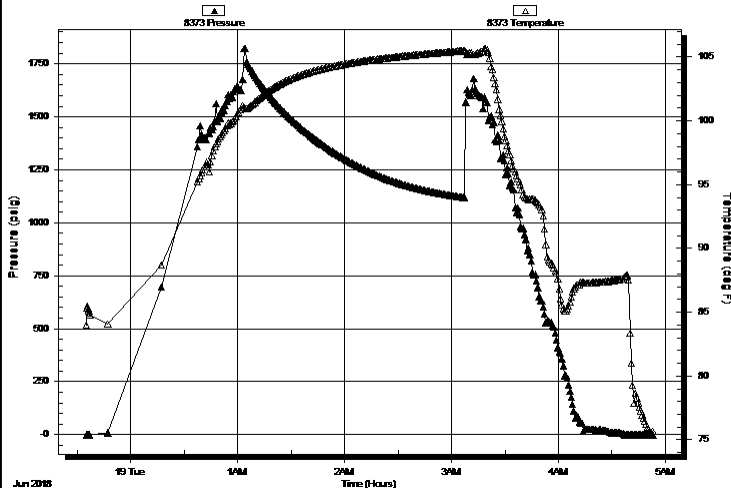
TEST COMMENT: 30-IFP-surface blow died in 15 min

30-ISIP-no blow

30-FFP-no blow

30-FSIP-no blow

Pressure vs. Time



PRESSURE SUMMARY

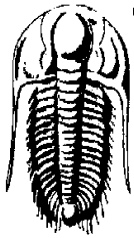
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Schmidt Family #1-6

Job Ticket: 64227

DST#: 1

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.06.18 @ 23:35:34

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Tester: Ray Schw ager

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Total Depth: 3728.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Poor

Reference Elevations: 2036.00 ft (KB)

2029.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8673 Outside

Press@RunDepth: psig @ 3367.00 ft (KB)

Start Date: 2018.06.18

End Date:

2018.06.19

Start Time: 23:35:35

End Time:

04:56:14

Capacity: 8000.00 psig

Last Calib.:

2018.06.19

Time On Btm:

Time Off Btm:

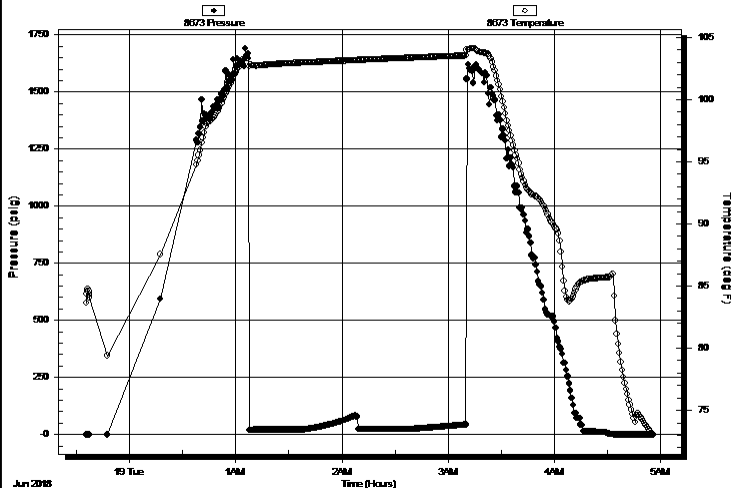
TEST COMMENT: 30-IFP-surface blow died in 15 min

30-ISIP-no blow

30-FFP-no blow

30-FSIP-no blow

Pressure vs. Time



PRESSURE SUMMARY

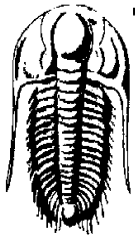
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
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Recovery

Length (ft)	Description	Volume (bbl)
2.00	Mud	0.01

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Schmidt Family #1-6

Job Ticket: 64227

DST#: 1

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.06.18 @ 23:35:34

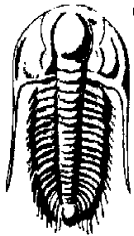
Tool Information

Drill Pipe:	Length:	3330.00 ft	Diameter:	3.80 inches	Volume:	46.71 bbl	Tool Weight:	2200.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	46.86 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		15.00 ft					String Weight: Initial	56000.00 lb
Depth to Top Packer:		3366.00 ft					Final	57000.00 lb
Depth to Bottom Packer:		3390.00 ft						
Interval betw een Packers:		24.00 ft						
Tool Length:		387.00 ft						
Number of Packers:		3	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Change Over Sub	1.00			3346.00		
Shut In Tool	5.00			3351.00		
Hydraulic tool	5.00			3356.00		
Packer	5.00			3361.00	21.00	Bottom Of Top Packer
Packer	5.00			3366.00		
Stubb	1.00			3367.00		
Recorder	0.00	8360	Inside	3367.00		
Recorder	0.00	8673	Outside	3367.00		
Perforations	19.00			3386.00		
Blank Off Sub	1.00			3387.00		
Blank Spacing	3.00			3390.00	24.00	Tool Interval
Packer	5.00			3395.00		
Stubb	1.00			3396.00		
Perforations	15.00			3411.00		
Recorder	0.00	8373	Below	3411.00		
Blank Spacing	318.00			3729.00		
Bullnose	3.00			3732.00	342.00	Bottom Packers & Anchor
Total Tool Length:	387.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co Inc

6-15s-18w Ellis,KS

PO Box 1019
Hays KS 67601

Schmidt Family #1-6

Job Ticket: 64227

DST#: 1

ATTN: Al Dow ning ,Marc Dow

Test Start: 2018.06.18 @ 23:35:34

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 54.00 sec/qt

Water Loss: 7.96 in³

Resistivity: ohm.m

Salinity: 2500.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

Oil API:

Water Salinity:

deg API

ppm

ft

bbl

psig

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	Mud	0.010

Total Length: 2.00 ft Total Volume: 0.010 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

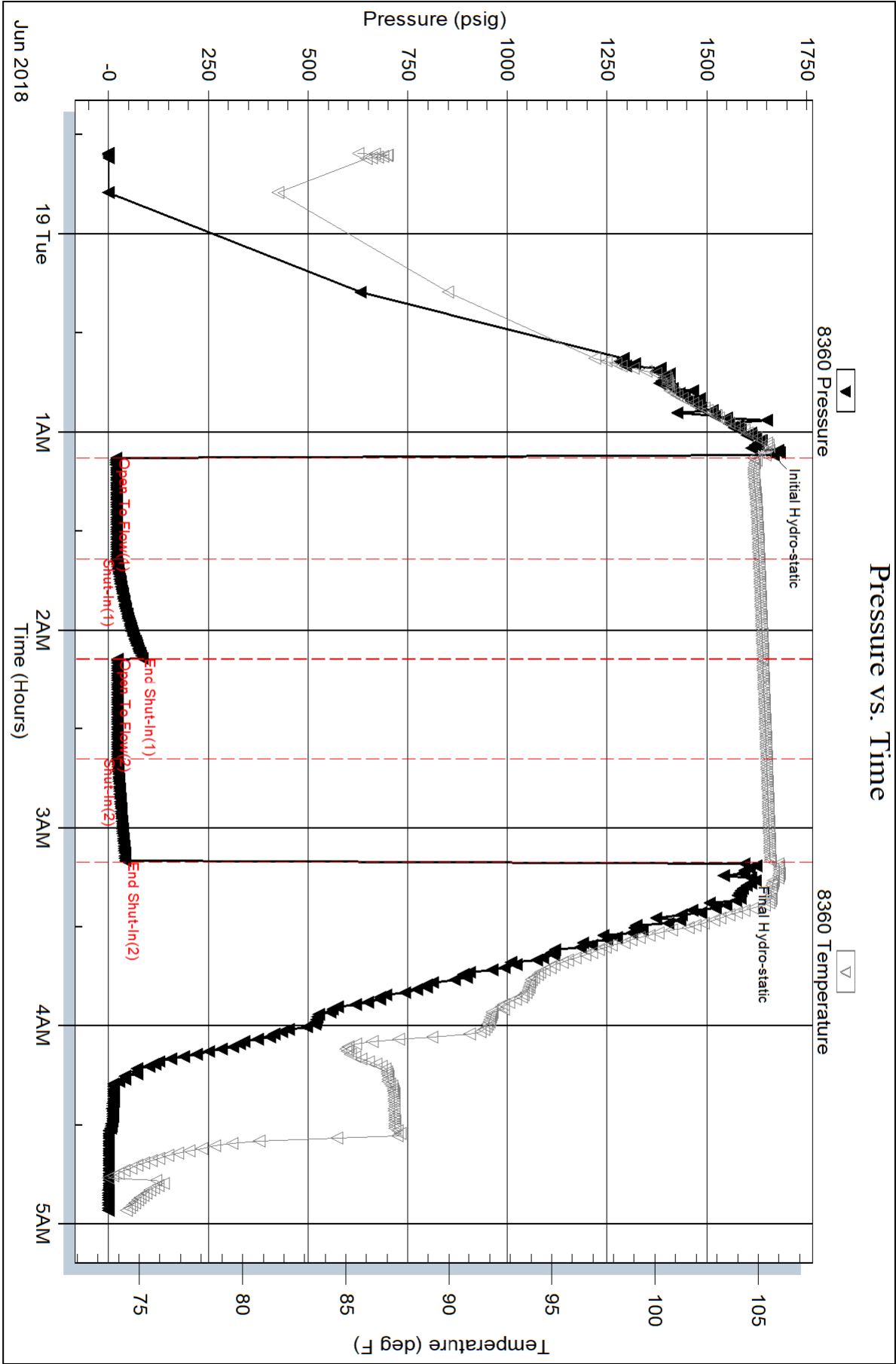
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Inside

Dow n ing Nelson Oil Co Inc

Schmidt Family #1-6

DST Test Number: 1

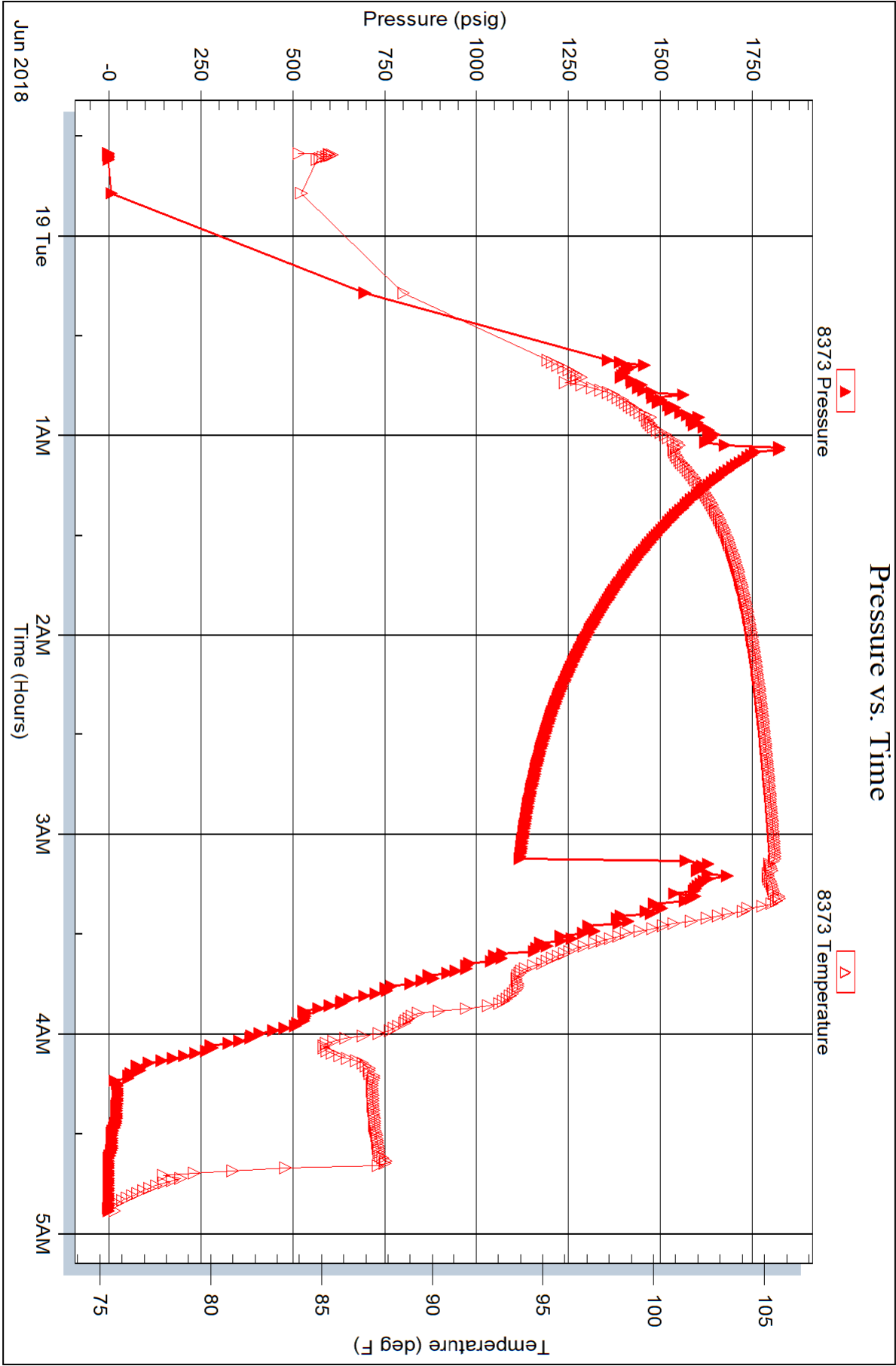


Serial #: 8373

Below (Stratton)ng Nelson Oil Co Inc

Schmidt Family #1-6

DST Test Number: 1



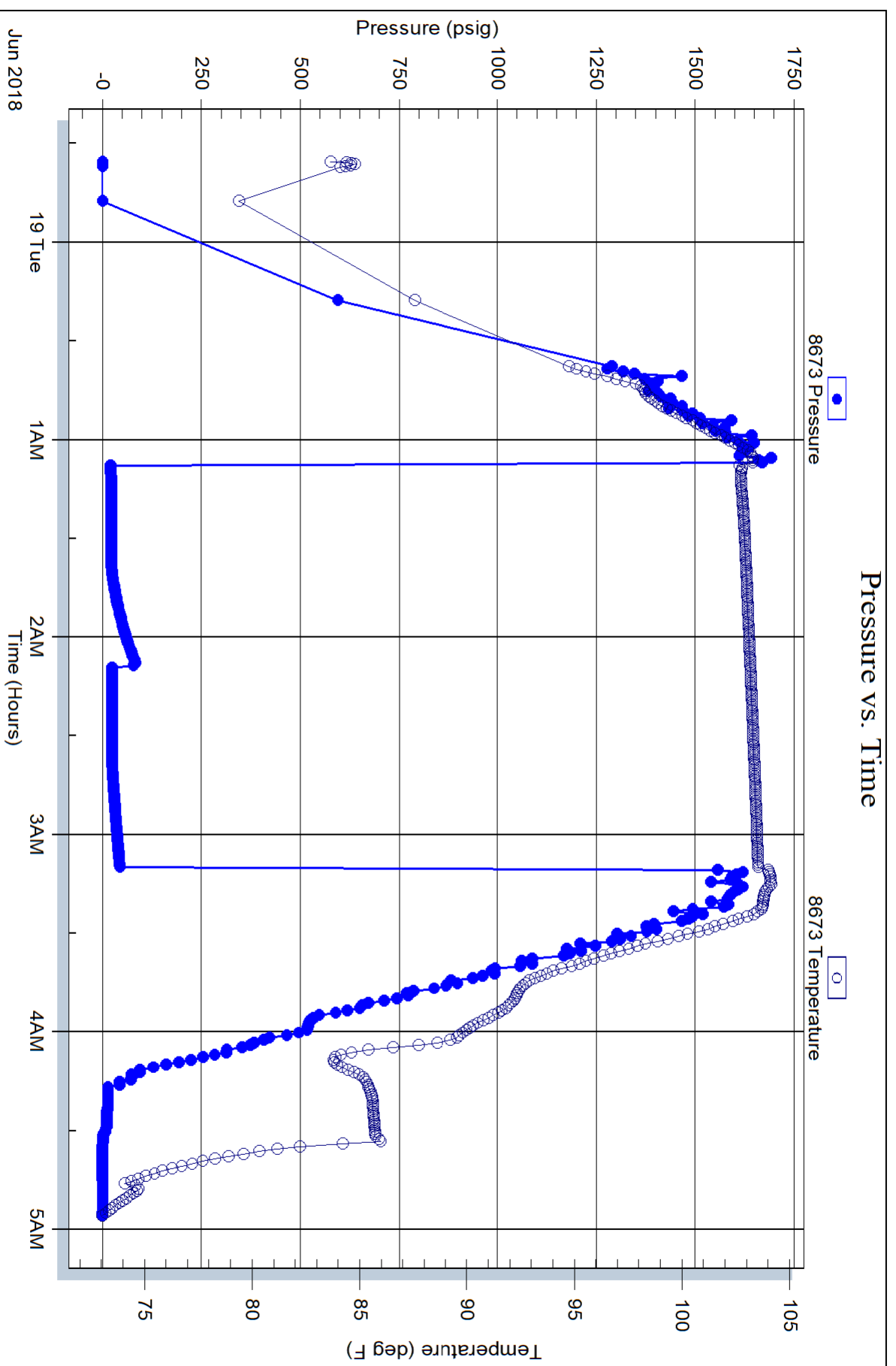
Serial #: 8673

Outside

Dow n ing Nelson Oil Co Inc

Schmidt Family #1-6

DST Test Number: 1





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 64227

Well Name & No. Schmidt Family #1-6 Test No. 1 Date 6-18-18
 Company Downing-Nelson Oil Co Inc Elevation 2036 KB 2029 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. MARC Downing Rig Discovery rig 4
 Location: Sec. 6 Twp 15 Rge. 18 Co. ELLIS State KS

Interval Tested 3366-3390 Zone Tested LKC D
 Anchor Length 24 Drill Pipe Run 3330 Mud Wt. 9
 Top Packer Depth 3366-3361 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3328 3390 Wt. Pipe Run — WL 8
 Total Depth 3728 Chlorides 2500 ppm System LCM 1 1/2 #
 Blow Description TFP-SURFACE Blow, died in 15 min
ISIP- NO Blow
FFP- NO Blow
FSIP- NO Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>Mud</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 2 BHT _____ Gravity — API RW — @ — °F Chlorides — ppm
 (A) Initial Hydrostatic 1666 ☒ Test 1050 T-On Location 2300
 (B) First Initial Flow 19 ☐ Jars _____ T-Started 2335
 (C) First Final Flow 20 ☐ Safety Joint _____ T-Open 0110
 (D) Initial Shut-In 83 ☐ Circ Sub _____ T-Pulled 0310
 (E) Second Initial Flow 21 ☐ Hourly Standby _____ T-Out 0
 (F) Second Final Flow 22 ☒ Mileage 22 RT 22 Comments _____
 (G) Final Shut-In 42 ☐ Sampler _____
 (H) Final Hydrostatic 1588 ☒ Straddle 600

Initial Open _____ ☐ Shale Packer _____ ☐ Ruined Shale Packer _____
 Initial Shut-In _____ ☐ Extra Packer _____ ☐ Ruined Packer _____
 Final Flow _____ ☐ Extra Recorder _____ ☐ Extra Copies _____
 Final Shut-In _____ ☐ Day Standby _____ Sub Total 0
 Sub Total 1672 Total 1672 MP/DST Disc't _____

Approved By _____ Our Representative RAY SCHWAGER Thank you
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Marc A. Downing			Geologic Report		
Consulting Petroleum Geologist			Drilling Time and Sample Log		
Operator Downing-Nelson Oil Co., Inc.			Elevation KB 2037		
Lease Schmidt Family		No. 1-6	DF 2035 GL 2029		
API # 15-051-26915-0000			Casing Record		
Field Wildcat			Surface 8 5/8" @ 1020'		
Location 2285' FNL & 970' FEL			Production None		
Sec. 6		Twp. 15s	Rge. 18w	Electrical Surveys	
County Ellis		State Kansas		CNDL, DIL MEL, Sonic	
Formation	Sample tops		Log Tops	Datum	Struct Comp
Top Anhydrite	1234		1227	+810	-7
Base Anhydrite	1266		1266	+771	
Topeka	3020		3020	-983	NA
Heebner	3283		3283	-1246	-7
Toronto	3308		3308	-1271	-10
LKC	3330		3330	-1293	-3
BKC	3567		3568	-1531	+4
Reworked Arbuckle?	3640		3640	-1603	NA
Arbuckle	3683		3684	-1647	Not Reached
Total Depth	3726		3728	-1691	
Reference Well For Structural Comparison Okmar Oil Co					
Tobin #1 SE SW NE Sec. 6-15s-18w					

Drilling Contractor

Completed

Discovery Drilling, Rig #4

Commenced

6-13-18

To

6-19-18

Samples Saved From

3000

To

RTD

Drilling Time Kept From

2950

To

RTD

Samples Examined From

3000

To

RTD

Geological Supervision From

3000

To

RTD

Operator

Downing-Nelson Oil Co., Inc.

Lease

Schmidt Family

API #

15-051-26915-0000

Field

Wildcat

Location

2285' FNL & 970' FEL

Sec.

6

Twp.

15s

Rge.

18w

County

Ellis

State

Kansas

Formation

Sample tops

Log Tops

Datum

Struct Comp

Top Anhydrite

1234

Base Anhydrite

1266

Topeka

3020

Heebner

3283

Toronto

3308

LKC

3330

BKC

3567

Reworked Arbuckle?

3640

Arbuckle

3683

Total Depth

3726

Reference Well For Structural Comparison

Okmar Oil Co

Tobin #1

SE SW NE

Sec. 6-15s-18w

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

Linst fr/7>

Dolomite

Dolsec

ACCESSORIES

STRINGER

Limestone

red shale

FOSSIL

Oilite

MINERAL

Chert, dark

Chert White

OIL SHOWS

Even Stn

Spotted Stn 50 - 75 %

Spotted Stn 25 - 50 %

Spotted Stn 1 - 25 %

Questionable Stn

Dead Oil Stn

Fluorescence

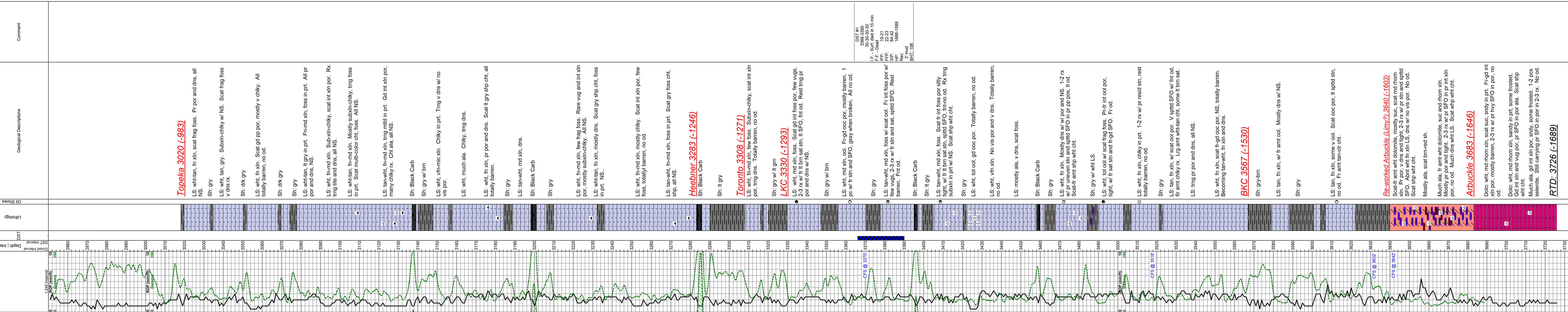
DST

DST int

DST alt

Core

Tail pipe



SWIFT Services, Inc.

DATE 06/14/18
PAGE NO. 1
TICKET NO. 27311

CUSTOMER		WELL NO.		LEASE		JOB TYPE	
Lawing Nelson		1-6		Schmidt Family		Deep Surface	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)	
				T	C	TUBING	CASING
	1115						
							On location w/Float Equip
							8 5/8 x 23# - 1020'
	1145						Start Pipe on Float Equip
	1345						Break Circ on Bottom
	1350	3	20			200	Pump 200bbl KCL Spacer
		5 1/2	70				Start Cmt, Mix 150 SKS @ 11.8#
		5 1/2	108				Mix 100 SKS @ 12.5#
		5	124				Mix 50 SKS @ 13.5#
		4 1/2	137				Mix 50 SKS @ 14.5#
	1425					Vac.	Shut Down, Drop Plug
							Washout Pump & Lines
	1430	5				Vac.	Start Displacement
	1440	5	45			250	Catch Cmt
	1445	4				400/750	Land Plug Lift Psi 400#, Land 750#
							Shut in
							Release Truck
							Wash up
							Rack up
	1505						Job Complete
							Thanks
							Jon, Austin, Isaac
							Circulated Cmt to Surface

SWIFT Services, Inc.

DATE _____

6-19-18

PAGE NO.

CUSTOMER

CUSTOMER
Downing-Nelson

WELL NO.

WELL NO
1-b

LEASE

LEASE
Schmidt Family

JOB TYPE	
----------	--

B TYPE
Rn

TICKET NO.

KEY NO.
2733

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	800							On location
								RTO - 3727
								1st plug - 3660'
								50 sks cmt
	820	5	10			200		pump wtr spacer
	825	5	13			200		pump cmt @ 13 ppq
		5	5			200		pump wtr
	830	7	43			200		Disp w/ mud - 5 min
	835							End Disp
								2nd Plug @ 1250
								50 sks cmt
	940	5	7			200		pump wtr spacer
		5	13			200		pump cmt
	950	5	3			200		Disp w/ wtr
								3rd plug @ 500'
								100 sks cmt
	1010	5	26			100		pump cmt
	1020	0	1			0		Disp
	1100	1.5	3			0		4th plug - 40'
								10 sks cmt
	1125	1.5	8			0		plug Rat hole - 30 sks
	1130	1.5	4			0		plug Mouse hole - 15 sks
								Used 250 sks 60/40 permix 4"
								Thanks David Zach & Isaac