

ALT ☐ I ☐ II ☐ III Approved by: _____ Date: _____

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KBK UNIT 1-16
Doc ID	1779782

Tops

Name	Top	Datum
Top Anhydrite	1585'	+617
Base Anhydrite	1627'	+575
Topeka	3264'	-1062
Heebner	3493'	-1291
Toronto	3510'	-1308
LKC	3528'	-1326
BKC	3771'	-1569
Marmaton	3850'	-1648
Cherokee Shale	3890'	-1688
Conglomerate Sand	3937'	-1735

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	KBK UNIT 1-16
Doc ID	1779782

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	222	Standard Class A	150	2% Gel 3%CC

CHARGE TO: Downing Nelson Oil

ADDRESS

CITY, STATE, ZIP CODE

TICKET **36597**

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Hays, KS</u> 2. <u>Ness City, KS</u> 3. 4.	WELL/PROJECT NO. <u>1-16</u>	LEASE <u>KBK Unit</u>	COUNTY/PARISH <u>Trego</u>	STATE <u>KS</u>	CITY	DATE <u>05/17/24</u>	OWNER <u>Same</u>
	TICKET TYPE ☒ SERVICE ☐ SALES	CONTRACTOR <u>Discovery Drilling</u>	RIG NAME/NO. <u>#4</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>Location</u>	ORDER NO.	
	WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Cement Surface Pipe</u>	WELL PERMIT NO.		WELL LOCATION	
REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M		QTY. U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
575		1			MILEAGE #110	30	mi			8.00	240.00
5765		1			Pump Charge - Shallow Surface	1	EA			1250.00	1250.00
290		1			D-Air	2	gal			45.00	90.00
325		2			Standard Cement	150	SKS			17.50	2625.00
278		2			Calcium Chloride	7	SKS			55.00	385.00
279		2			Bentonite Gel	4	SKS			30.00	180.00
581		2			Service Charge Cement	150	SKS			2.00	300.00
583		2			Drayage	368.75	TM			1.00	368.75

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 Ryan Dack

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

AGREE

UNDECIDED

DISAGREE

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

5,438.75

TOTAL

246.00

5684.75

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

T OPERATOR

APPROVAL

Thank You!

SWIFT Services, Inc.

DATE _____

PAGE NO.

05/17/24

1

TICKET NO.

36597

CUSTOMER

WELL NO

LEASE

JOB TYPE

Downing & Nelson

1-16

KBK Unit

Surface

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1615							On location, set up truck
								212' of 8 5/8" x 23# + 16' Landing IT set @ 222'
	1630							Start Casing Break Circulation
	1740	3	5					Hook up to Swift Pump water ahead
		4						Start Cement
		4	36					Finish Cement, Start Displacement
	1800	4	13 1/4					Finish Displacement Cement Circulated
	1805							Shut in Release Truck
								Wash up Rack up
	1815							Job Complete
								Thanks Jon, Mark, & Austin

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 4085

Cell 785-324-1041

Date <u>5-28-21</u>	Sec. <u>16</u>	Twp. <u>13</u>	Range <u>21</u>	County <u>Ellis</u>	State <u>KS</u>	On Location	Finish <u>6:15 AM</u>
Location <u>RIGA 35th</u>							
Lease <u>KBR Unit</u>		Well No. <u>F16</u>		Owner			
Contractor <u>Discovery</u>		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job <u>PTA</u>							
Hole Size <u>7 3/8</u>		T.D. <u>3950</u>		Charge To <u>Downing-Nelson</u>			
Csg.		Depth		Street			
Tbg. Size		Depth		City		State	
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered <u>30 SA 60/40-4</u>			
Meas Line		Displace		<u>4" HOSEA</u>			
EQUIPMENT				Common <u>183</u>			
Pumptrk <u>18</u>	No.	Cementer		Poz. Mix <u>122</u>			
Bulktrk	No.	Driver	<u>BILL</u>	Gel. <u>11</u>			
Bulktrk <u>9</u>	No.	Driver	<u>NICK</u>	Calcium			
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal <u>25#</u>			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
<u>3918 - 50 sks</u>				Handling <u>316</u>			
<u>1628 - 50 sks</u>				Mileage			
<u>800 - 100 sks</u>				FLOAT EQUIPMENT			
<u>275 - 50 sks</u>				Guide Shoe			
<u>40 - 10 sks</u>				Centralizer			
<u>RH - 30</u>				Baskets			
<u>MH - 15</u>				AFU Inserts			
				Float Shoe			
				Latch Down			
				<u>Wood Plug - 8 1/2</u>			
				Pumptrk Charge <u>plug</u>			
				Mileage <u>51</u>			
				Tax			
				Discount			
				Total Charge			

X Signature Ryan Gosche

Thanks



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

KBK Unit #1-16

16-13s-21wTrego,KS

Start Date: 2024.05.22 @ 03:55:00

End Date: 2024.05.22 @ 09:31:02

Job Ticket #: 70737 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.05.24 @ 16:53:54



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70737

DST#: 1

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 03:55:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 2206.00 ft (KB)

Time Tool Opened: 05:54:17

Time Test Ended: 09:31:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3858.00 ft (KB) To 3895.00 ft (KB) (TVD)**

Total Depth: 3895.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 2206.00 ft (KB)

2196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6752** Inside

Press@RunDepth: 40.20 psig @ 3859.00 ft (KB)

Start Date: 2024.05.22

End Date:

2024.05.22

Start Time: 03:55:01

End Time:

09:31:02

Capacity: psig

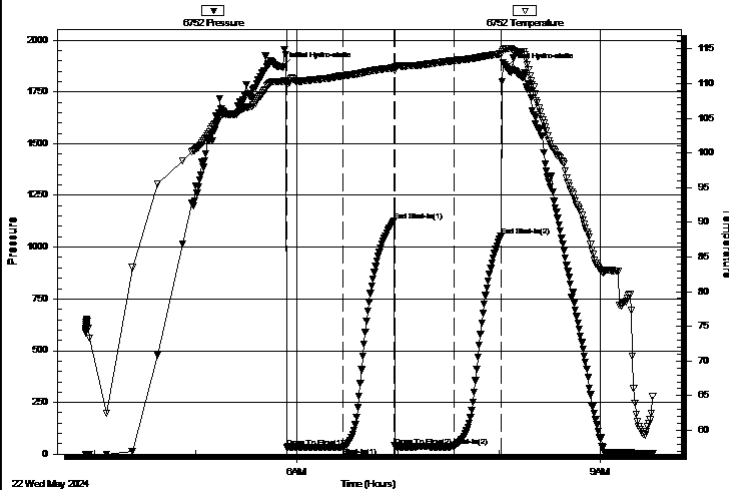
Last Calib.: 1899.12.30

Time On Btm: 2024.05.22 @ 05:52:02

Time Off Btm: 2024.05.22 @ 08:04:17

TEST COMMENT: IF: 30 min., weak surface blow , 1.1 inches
IS: 30 min., no blow back
FF: 30 min., weak surface blow , .7 inches
FS: 30 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.07	110.29	Initial Hydro-static
3	34.48	109.99	Open To Flow (1)
36	33.46	111.13	Shut-In(1)
66	1125.56	112.30	End Shut-In(1)
67	39.16	112.29	Open To Flow (2)
102	40.20	113.31	Shut-In(2)
130	1055.88	114.30	End Shut-In(2)
133	1867.35	115.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	oil cut mud 3%O,97%M	0.05

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.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70737

DST#: 1

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 03:55:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: 2206.00 ft (KB)

Time Tool Opened: 05:54:17

Time Test Ended: 09:31:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3858.00 ft (KB) To 3895.00 ft (KB) (TVD)**

Total Depth: 3895.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 2206.00 ft (KB)

2196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6751** Outside

Press@RunDepth: psig @ 3859.00 ft (KB)

Start Date: 2024.05.22

End Date:

2024.05.22

Start Time: 03:55:01

End Time:

09:31:02

Capacity: psig

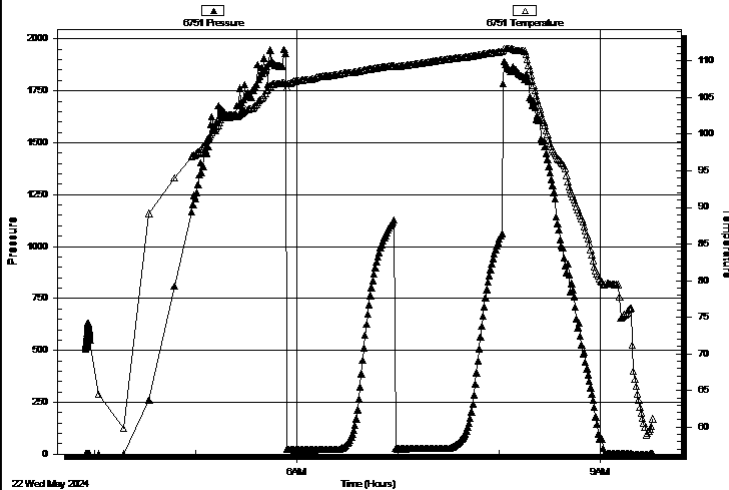
Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 30 min., weak surface blow , 1.1 inches
IS: 30 min., no blow back
FF: 30 min., weak surface blow , .7 inches
FS: 30 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
10.00	oil cut mud 3%O,97%M	0.05

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.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70737

DST#: 1

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 03:55:00

Tool Information

Drill Pipe:	Length:	3822.00 ft	Diameter:	3.80 inches	Volume:	53.61 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	60000.00 lb
					Total Volume:	53.76 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		24.00 ft					String Weight: Initial	54000.00 lb
Depth to Top Packer:		3858.00 ft					Final	54000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		37.00 ft						
Tool Length:		67.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Shut In Tool	5.00			3833.00	
Hydraulic tool	5.00			3838.00	
Isolator Sub	3.00			3841.00	
Jars	5.00			3846.00	
Safety Joint	3.00			3849.00	
Packer	5.00			3854.00	30.00 Bottom Of Top Packer
Packer	4.00			3858.00	
Stubb	1.00			3859.00	
Recorder	0.00	6752	Inside	3859.00	
Recorder	0.00	6751	Outside	3859.00	
Pickup sub perf	5.00			3864.00	
Perforations	28.00			3892.00	
Bullnose	3.00			3895.00	37.00 Bottom Packers & Anchor

Total Tool Length: 67.00



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co Inc.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70737

DST#: 1

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 03:55:00

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: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.19 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 bbl
10.00	oil cut mud 3%O,97%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 6752

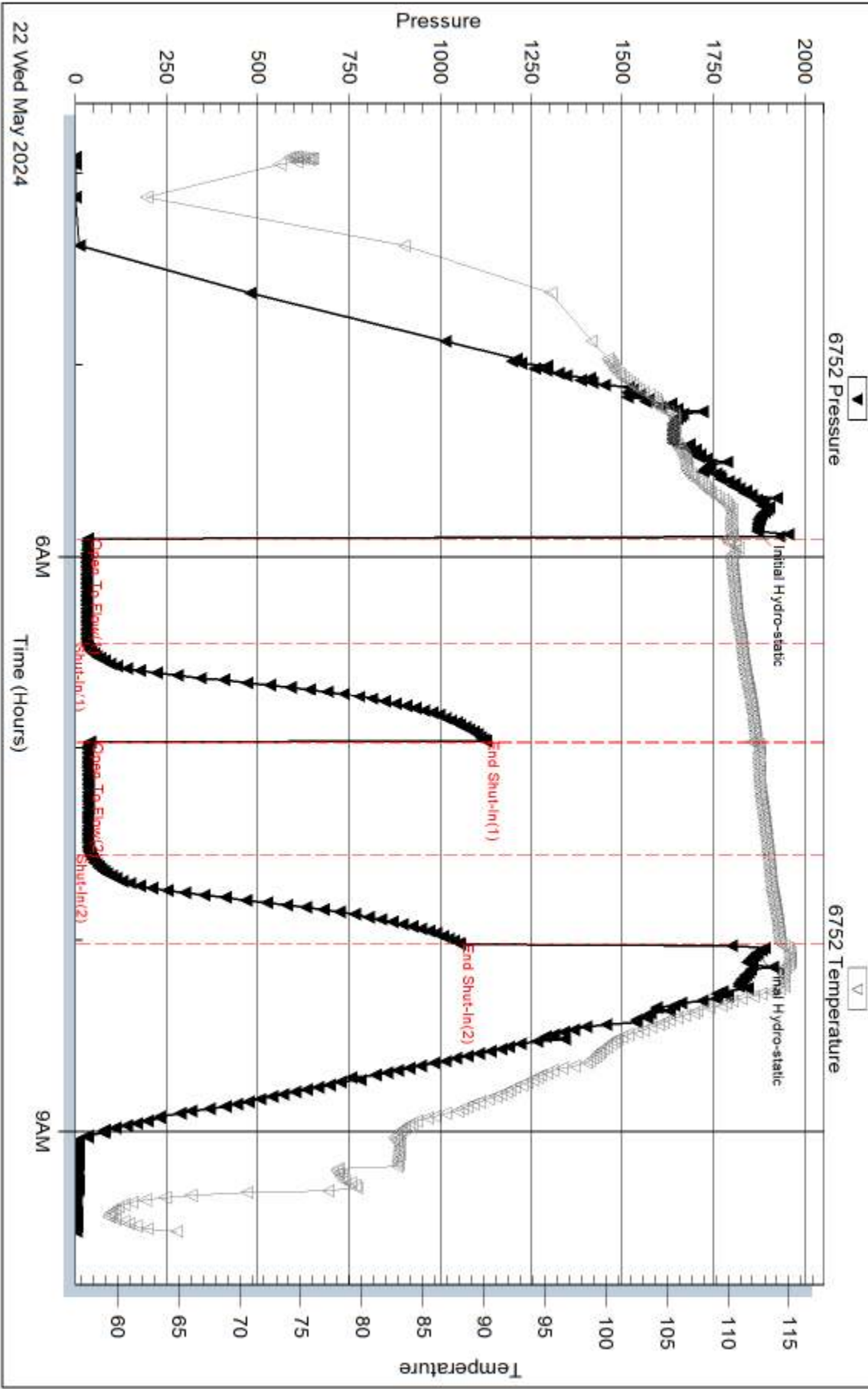
Inside

Downing Nelson Oil Co Inc.

KBK Unit #1-16

DST Test Number: 1

Pressure vs. Time

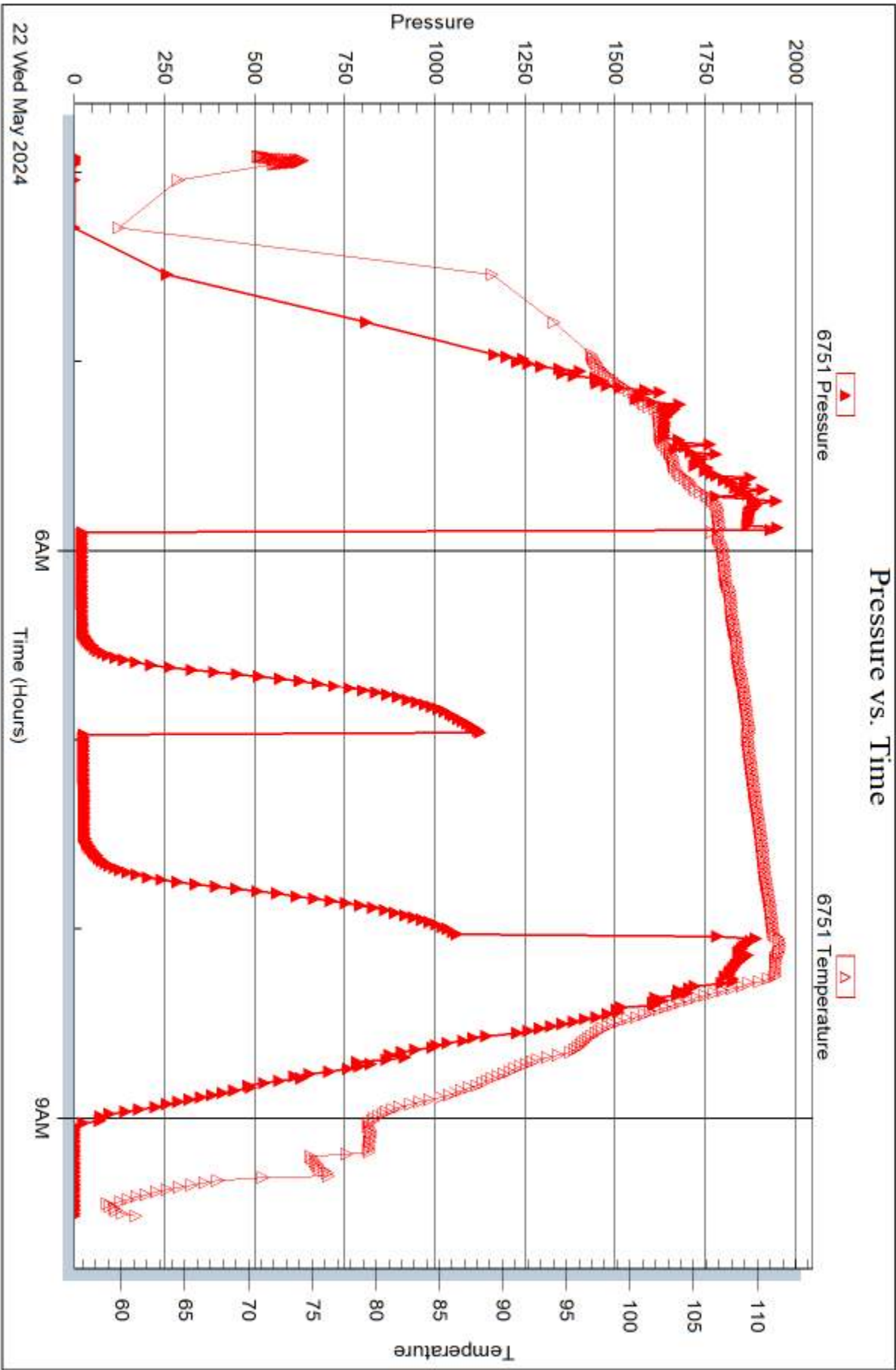


Serial #: 6751

Outside Dow n ing Nelson Oil Co Inc.

KBK Unit #1-16

DST Test Number: 1





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Al Downing

KBK Unit #1-16

16-13s-21wTrego,KS

Start Date: 2024.05.22 @ 17:55:00

End Date: 2024.05.22 @ 23:27:02

Job Ticket #: 70738 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2024.05.24 @ 16:28:50



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co Inc.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70738

DST#: 2

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 17:55:00

GENERAL INFORMATION:

Formation: **Cherokee Snd.**

Deviated: No Whipstock: 2206.00 ft (KB)

Time Tool Opened: 19:32:32

Time Test Ended: 23:27:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3884.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 2206.00 ft (KB)

2196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: **6752** Inside

Press@RunDepth: 832.16 psig @ 3887.00 ft (KB)

Start Date: 2024.05.22

End Date:

2024.05.22

Start Time: 17:55:01

End Time:

23:27:02

Capacity: psig

Last Calib.: 1899.12.30

Time On Btm: 2024.05.22 @ 19:29:02

Time Off Btm: 2024.05.22 @ 20:58:47

TEST COMMENT: IF: 10 min., BOB 45 sec., strong building blow , 123 inches

IS: 30 min., no blow back

FF: 10 min., BOB ASAO, strong building blow , 132 inches

FS: 30 min., no blow back

PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1858.38	107.35	Initial Hydro-static
4	392.71	115.22	Open To Flow (1)
12	569.56	125.63	Shut-In(1)
44	1146.18	122.25	End Shut-In(1)
44	652.84	121.86	Open To Flow (2)
57	832.16	125.74	Shut-In(2)
87	1113.82	124.48	End Shut-In(2)
90	1866.09	122.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1760.00	100%W	24.41

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.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70738

DST#: 2

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 17:55:00

GENERAL INFORMATION:

Formation: **Cherokee Snd.**

Deviated: No Whipstock: 2206.00 ft (KB)

Time Tool Opened: 19:32:32

Time Test Ended: 23:27:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **3884.00 ft (KB) To 3950.00 ft (KB) (TVD)**

Total Depth: 3950.00 ft (KB) (TVD)

Hole Diameter: 7.80 inchesHole Condition: Good

Reference Elevations: 2206.00 ft (KB)

2196.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6751 Outside

Press@RunDepth: psig @ 3887.00 ft (KB)

Start Date: 2024.05.22

End Date:

2024.05.22

Start Time: 17:55:01

End Time:

23:27:02

Capacity: psig

Last Calib.: 1899.12.30

Time On Btm:

Time Off Btm:

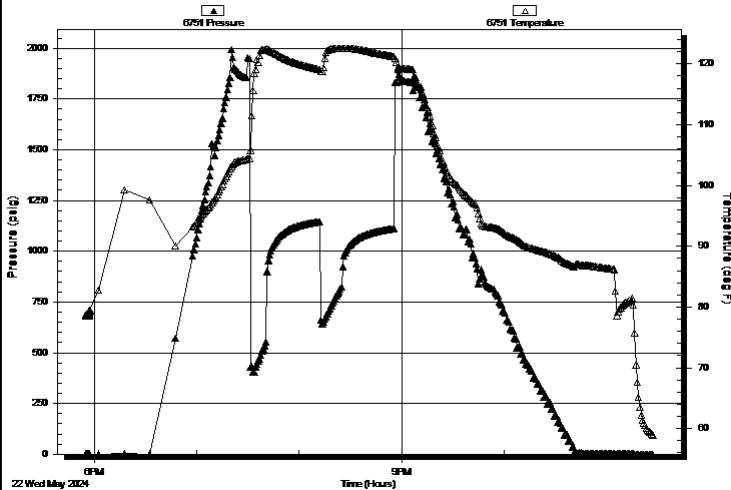
TEST COMMENT: IF: 10 min., BOB 45 sec., strong building blow , 123 inches

IS: 30 min., no blow back

FF: 10 min., BOB ASAO, strong building blow , 132 inches

FS: 30 min., no blow back

Pressure vs. Time



PRESSURE SUMMARY

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

Length (ft)	Description	Volume (bbl)
1760.00	100%W	24.41

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.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70738

DST#: 2

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 17:55:00

Tool Information

Drill Pipe:	Length:	3855.00 ft	Diameter:	3.80 inches	Volume:	54.08 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	0.00 inches	Volume:	0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:	65000.00 lb
					Total Volume:	54.23 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:		31.00 ft					String Weight: Initial	54000.00 lb
Depth to Top Packer:		3884.00 ft					Final	64000.00 lb
Depth to Bottom Packer:		ft						
Interval betw een Packers:		66.00 ft						
Tool Length:		96.00 ft						
Number of Packers:		2	Diameter:	6.75 inches				
Tool Comments:								

Tool Description

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

Shut In Tool	5.00			3859.00		
Hydraulic tool	5.00			3864.00		
Isolator Sub	3.00			3867.00		
Jars	5.00			3872.00		
Safety Joint	3.00			3875.00		
Packer	5.00			3880.00	30.00	Bottom Of Top Packer
Packer	4.00			3884.00		
Stubb	1.00			3885.00		
Perforations	2.00			3887.00		
Recorder	0.00	6752	Inside	3887.00		
Recorder	0.00	6751	Outside	3887.00		
Pickup sub perf	5.00			3892.00		
Perforations	21.00			3913.00		
Change Over Sub	1.00			3914.00		
Drill Pipe	32.00			3946.00		
Change Over Sub	1.00			3947.00		
Bullnose	3.00			3950.00	66.00	Bottom Packers & Anchor
Total Tool Length:	96.00					



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co Inc.

16-13s-21wTrego,KS

PO Box 1019
Hays, KS 67601

KBK Unit #1-16

Job Ticket: 70738

DST#: 2

ATTN: Al Dow ning

Test Start: 2024.05.22 @ 17:55:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 4500.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length:

Cushion Volume:

Gas Cushion Type:

Gas Cushion Pressure:

ft

bbl

psig

Oil API:

Water Salinity:

deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1760.00	100%W	24.415

Total Length: 1760.00 ft Total Volume: 24.415 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.195@80F=32,000ppm

Serial #: 6752

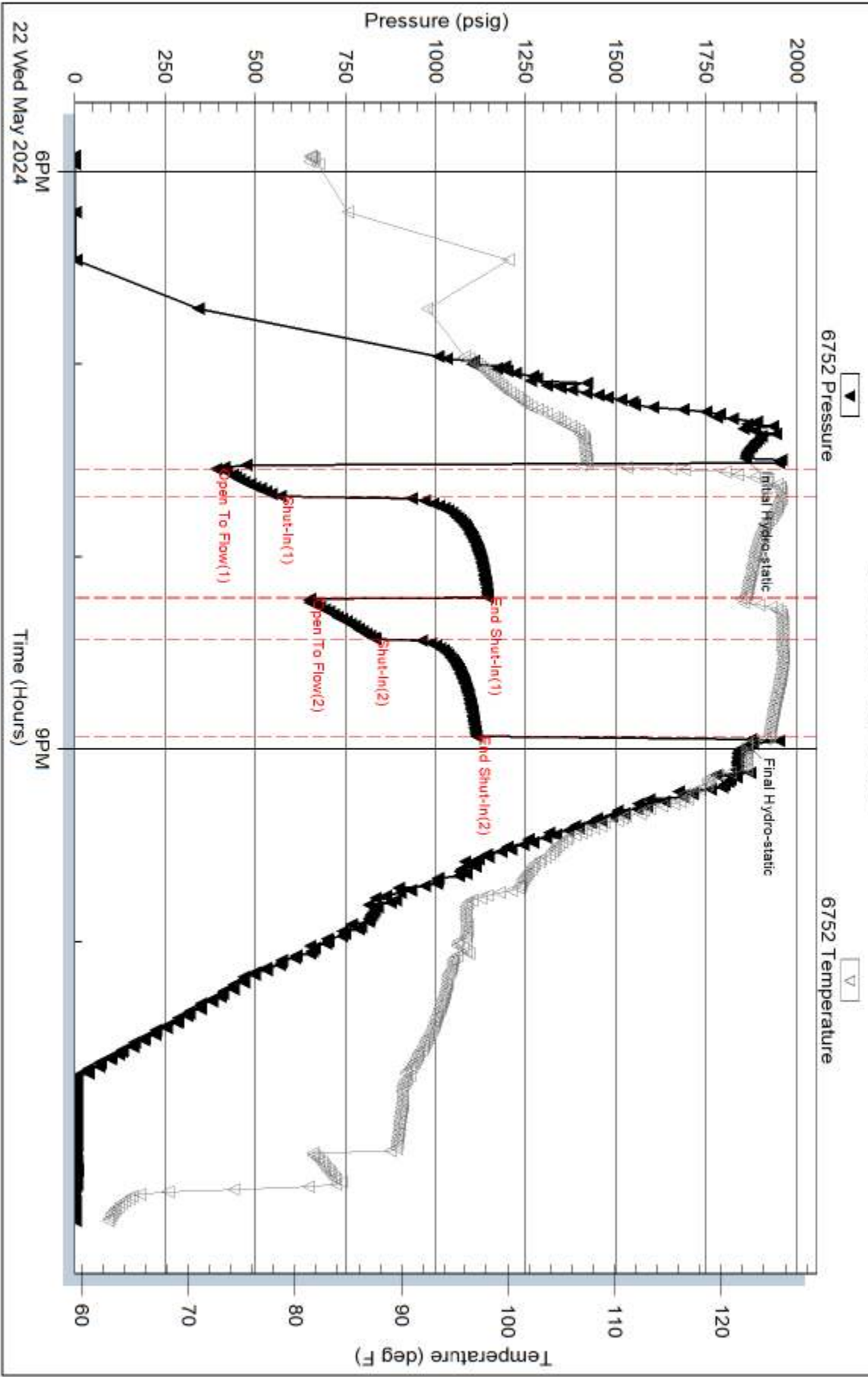
Inside

Downing Nelson Oil Co Inc.

KBK Unit #1-16

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 70738

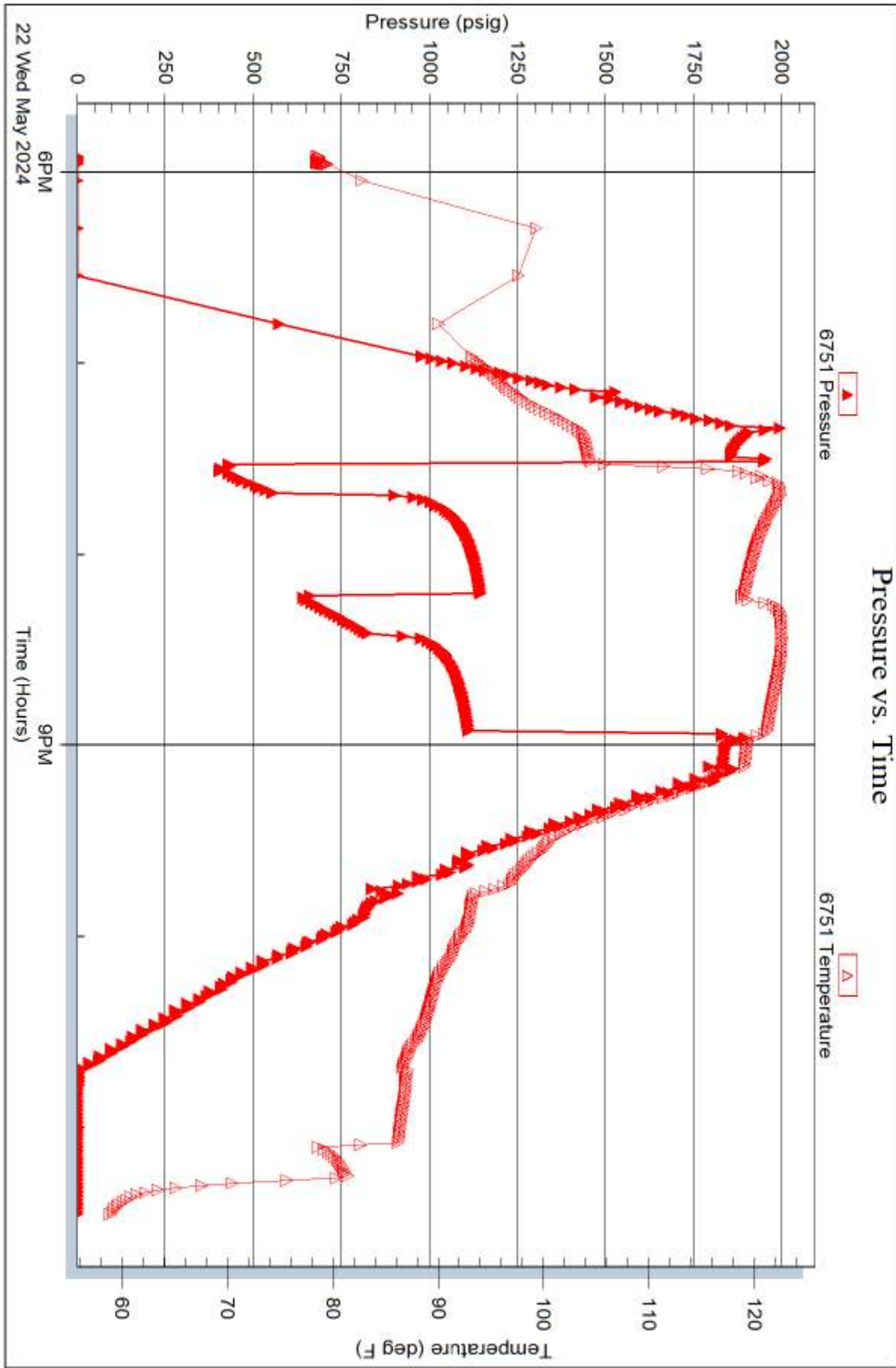
Printed: 2024.05.24 @ 16:28:50

Serial #: 6751

Outside Dow ning Nelson Oil Co Inc.

KBK Unit #1-16

DST Test Number: 2





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70737

Well Name & No. KBJC Unit 1-16 Test No. 1 Date 05/22/24
Company Downing-Nelson Oil Co Inc. Elevation 2206 KB 2196 GL
Address P.O. Box 1019 Hays, KS 67601
Co. Rep / Geo AL Downing Rig Discovery #4
Location: Sec. 16 Twp 13 Rge. 21 Co. Trego State KS

Interval Tested 3858-3895 Zone Tested Marmaton
Anchor Length 37' Drill Pipe Run 3822 Mud Wt. 9.2
Top Packer Depth 3853 Drill Collars Run 30' Vis 55
Bottom Packer Depth 3858 Wt. Pipe Run N.A. WL 9.2
Total Depth 3895 Chlorides 3000 ppm System LCM 1.5 #
Blow Description IP: 30 min., weak surface blow, 1.1 inches
IS: 30 min., no blow back
FP: 30 min., weak surface blow, 17 inches
FS: 30 min., no blow back

Rec <u>10</u>	Feet of <u>oil cut mud</u>	%gas <u>3</u>	%oil	%water <u>97</u>	%mud
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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 114 Gravity _____ API RW _____ @ _____ *F Chlorides _____ ppm
Initial Hydrostatic 1870 ☒ Test con. 1800 ☐ Ruined Shale Packer _____
Initial Flow 34 to 33 ☐ Jars _____ ☐ Ruined Packer _____
Initial Shut-In 1126 ☐ Circ Sub _____ ☐ Hotel _____
Final Flow 39 to 40 ☐ Hourly Standby _____ ☒ EM Tool Successful good -350
Final Shut-In 1056 ☒ Mileage 40mi 70 ☐ Accessibility _____
Final Hydrostatic 1867 ☐ Sampler _____ ☐ Gas Sample _____
T- On Location 0300 ☐ Straddle _____ ☐ Oversized Hole _____
Initial Flow 30 T-Started 0400 ☐ Shale Packer _____ ☐ Sub Total -350
Initial Shut-In 30 T-Open 0600 ☐ Extra Packer _____ ☐ Total 1520
Final Flow 30 T-Pulled 0800 ☐ Extra Recorder _____ ☐ Tool Loaded _____ @ _____
Final Shut-In 30 T-Out 0930 ☐ Day Standby _____ ☐ MP/DST Disc't _____
Comments 0355 bit on

Approved By _____ Our Representative Chris Hagan

Trilobite Testing Inc. shall not be liable for damage of any kind of property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 70738

Well Name & No. KBK Unit 1-16 Test No. 2 Date 5-22-24
 Company Dawson-Nelson Oil Co. Inc. Elevation 2206 KB 2198 GL
 Address P.O. Box 1019 Hays, KS 67601
 Co. Rep / Geo AL Dawson Rig ~~2206~~ Discoversy #4
 Location: Sec. 16 Twp 13 Rge. 21 Co. Trego State KS

Interval Tested 3884-3950 Zone Tested Cherokee, Srd.
 Anchor Length 66' Drill Pipe Run 3855 Mud Wt. 9.1
 Top Packer Depth 3899 Drill Collars Run 30 Vis 52
 Bottom Packer Depth 3884 Wt. Pipe Run N.A. WL 8.8
 Total Depth 3957 Chlorides 4500 ppm System LCM 1#
 Blow Description IF: 10 min., BOB 45 sec, strong building blow, 123 inches
IS: 30 min., no blow back
FP: 10 min., BOB ASD, strong building blow, 132 inches
FS: 30 min., no blow back

Rec <u>1760</u>	Feet of <u>Water</u>	%gas	%oil	<u>100</u> %water	%mud
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	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 1760 BHT 125 Gravity _____ API RW .195 @ 80 °F Chlorides 32,000 ppm
 Initial Hydrostatic 1858 ☒ Test conv. 1800 ☐ Ruined Shale Packer
 Initial Flow 393 to 570 ☒ Jars 300 ☐ Ruined Packer
 Initial Shut-In 1146 ☐ Circ Sub ☐ Hotel
 Final Flow 653 to 832 ☐ Hourly Standby ☒ EM Tool Successful good
 Final Shut-In 1114 ☒ Mileage X 40 70 ☐ Accessibility
 Final Hydrostatic 1866 ☐ Sampler ☐ Gas Sample
 T- On Location 1730 ☐ Straddle ☐ Oversized Hole
 Initial Flow 10 T-Started 1800 ☐ Shale Packer ☐ Sub Total 0
 Initial Shut-In 30 T-Open 1930 ☐ Extra Packer ☐ Total 2170
 Final Flow 10 T-Pulled 2050 ☐ Extra Recorder ☒ Tool Loaded @
 Final Shut-In 30 T-Out 2330 ☐ Day Standby ☐ MP/DST Disc't
 Comments 1755 tests on

Approved By _____ Our Representative Chris Hegran

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Alan C. Downing
Consulting Petroleum
Geologist

Geological Report

Drilling Time and Sample Log

Operator: Downing-Nelson Oil Co., Inc.
Lease: KBK #1-16
API #: 15-195-23168-0000
Field: Wildcat
Location: 990' FNL & 2490' FWL
Sec. 16, Twp. 13s, Rge. 21w
County: Trego, State: Kansas
Electrical Surveys: None

Formation

Sample Tops

Log Tops

Datum

Struct Comp

Top Anhydrite

1585

617

-2

Base Anhydrite

1627

575

-4

Topeka

3264

-1062

-7

Heebner

3493

-1291

-6

Toronto

3510

-1308

-3

LKC

3528

-1326

-4

BKC

3771

-1569

-4

Marmaton

3850

-1648

-5

Cherokee Sh

3890

-1688

-3

Conglomerate Sand

3937

-1735

Absent

Total Depth

3950

-1748

Reference Well for Structural Comparison:

DNOC1 - Kohl #1-16

770' FSL & 2230' FEL Sec. 16-13s-21w

Drilling Contractor: Discovery Drilling, Rig #4
Commenced: 5/17/2024
Completed: 5/22/2024

Samples Saved From: 3250 To: RTD
Drilling Time Kept From: 3150 To: RTD
Samples Examined From: 3250 To: RTD
Geological Supervision From: 3250 To: RTD

Summary and Recommendations

The KBK #1-16 was drilled looking for Conglomerate sand. Sand was encountered, but was proven non-commercial by the water recovery in DST #2. The decision was made to plug and abandon the test hole.

Respectfully Submitted

Alan C. Downing

ROCK TYPES

shale, red
shale, gry
Carbon Sh
shale, grn

ACCESSORIES

STRINGER

Dolomite
Shale

MINERAL

Chert, dark
Chert White

OIL SHOWS

Even Sin
Spotted Sin 50 - 75 %
Spotted Sin 25 - 50 %
Spotted Sin < 25 %
Dead Oil Sin
Fluorescence

DST

DST Int
DST alt
Core
Tail pipe

