

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	O'BLENESS 1-32
Doc ID	1325952

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	O'BLENESS 1-32
Doc ID	1325952

Tops

Name	Top	Datum
Top Anhydrite	2248'	+732
Basy Anhydrite	2310'	+670
Heebner	3916'	-936
LKC	3958'	-978
Stark	4235'	-1255
BKC	4312'	-1332
Marmaton	4362'	-1382
Fort Scott	4484'	-1504
Cherokee Shale	4506'	-1526
Johnson Zone	4546'	-1566
Mississippi	4577'	-1597



CHARGE TO: Dunning / Nelson

ADDRESS: _____

CITY, STATE, ZIP CODE: _____

TICKET 29840

PAGE 1 OF 1

1. SERVICE LOCATIONS: New City KS

2. CONTRACTOR: O. Bless

3. WELL TYPE: 0.1

4. REFERRAL LOCATION: 0.1

WELL PROJECT NO.: 1-32

WELL PERMIT NO.: 32-18-31

WELL LOCATION: 32-18-31

INVOICE INSTRUCTIONS: Must show pipe

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING	DESCRIPTION	QTY.	UM	UNIT PRICE	AMOUNT
578			MILEAGE	50	M	5.00	250.00
5765			FLYING CHARGES	150	SK	5.33	800.00
325			STANDARD CONCRETE	12	YD	12.25	1837.50
279			GRIT	3	SK	25.00	75.00
278			CEMENT CHLORIDE	7	SK	40.00	280.00
290			D-4R	2	YAL	42.00	84.00
521			SERVICE CHARGE	1	SD	225.00	225.00
583			DAMAGE	3	YD	27.67	83.00

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

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

DATE SIGNED: _____ TIME SIGNED: _____

REMIT PAYMENT TO: SWIFT SERVICES, INC. P.O. BOX 466 NESS CITY, KS 67560 785-798-2300

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES: _____

SWIFT OPERATOR: _____

APPROVAL: _____

Thank you!

SWIFT Services, Inc.

DATE 20 Dec 16 PAGE NO. 1

Deering & Nelson

WELL NO. 1-32

LEASE O'Bleness

JOB TYPE Plg to Abandon

TICKET NO. 29844

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								290 sk 60/40 p2 mix (4% gel) w/ 1/4" floater 4 1/2" chill pipe + 7 3/4" hole 1st plg 50 sk @ 2370' 80 @ 1560' 50 @ 780' 40 @ 270' 20 @ 60' 30sk RH 20sk MH
	0500							on loc TR 114 pipe @ 2370'
	0702	4	13			200		mix 60/40 p2 4% 50sk @ 13.1 ppg
		4	26			200		Displace to bottom
	0716							pull to 1560'
	0744	4	13			200		mix 60/40 p2 4% 80sk @ 13.1 ppg
		4	12					Displace to bottom
	0757							pull to 780'
	0816	4	13					mix 60/40 p2 4% 80sk @ 13.1 ppg
								Displace to bottom
	0827							pull to 270'
	0844	4	11					mix 60/40 p2 4% 40sk @ 13.1 ppg
	0855	4	2					Displace to bottom
	0859							pull to 60' pull RH & MH
	0945							mix 60/40 p2 4% 20sk @ 13.1 ppg cement to surface
	1005							Plg RH - MH 30sk - 20sk wash truck Pack up
	1045							job complete C. Links Print, Blank & base



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

O'Bleness #1-32

32-18s-31w Scott,KS

Start Date: 2016.12.15 @ 21:51:15

End Date: 2016.12.16 @ 05:18:15

Job Ticket #: 65686 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.20 @ 10:07:29



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning Nelson Oil Co

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65686

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.12.15 @ 21:51:15

GENERAL INFORMATION:

Formation: **LKC K**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:05:45

Time Test Ended: 05:18:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4232.00 ft (KB) To 4269.00 ft (KB) (TVD)

Reference Elevations: 2976.00 ft (KB)

Total Depth: 4269.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Outside

Press@RunDepth: 171.95 psig @ 4233.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.15

End Date:

2016.12.16

Last Calib.:

2016.12.16

Start Time: 21:51:15

End Time:

05:18:15

Time On Btm:

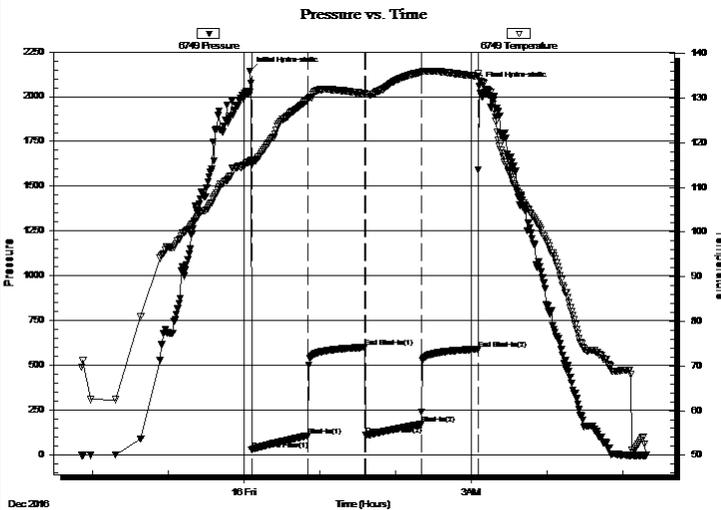
2016.12.16 @ 00:04:45

Time Off Btm:

2016.12.16 @ 03:06:15

TEST COMMENT: IS:BOB in 23 min.
IS:No return blow
FF:Built to 9" blow
FS:No return blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2142.91	115.84	Initial Hydro-static
1	27.88	115.11	Open To Flow (1)
46	107.45	129.71	Shut-In(1)
91	601.32	131.10	End Shut-In(1)
92	109.70	130.92	Open To Flow (2)
136	171.95	135.81	Shut-In(2)
181	590.98	134.94	End Shut-In(2)
182	2058.21	134.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocmw 2%o 24%m 76%w	1.46
124.00	ocw m 2%o 2%w 96%m	1.74
82.00	ocm 3%o 97%m	1.15
10.00	free oil 100%o	0.14

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning Nelson Oil Co

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65686

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.12.15 @ 21:51:15

Tool Information

Drill Pipe:	Length: 4188.00 ft	Diameter: 3.80 inches	Volume: 58.75 bbl	Tool Weight: 1500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 58.90 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 62000.00 lb
Depth to Top Packer:	4232.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	37.00 ft			
Tool Length:	65.00 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			4205.00	
Shut In Tool	5.00			4210.00	
Hydraulic tool	5.00			4215.00	
Jars	5.00			4220.00	
Safety Joint	3.00			4223.00	
Packer	5.00			4228.00	28.00 Bottom Of Top Packer
Packer	4.00			4232.00	
Stubb	1.00			4233.00	
Recorder	0.00	8672	Inside	4233.00	
Recorder	0.00	6749	Outside	4233.00	
Perforations	31.00			4264.00	
Bullnose	5.00			4269.00	37.00 Bottom Packers & Anchor

Total Tool Length: 65.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65686

DST#: 1

ATTN: Marc Dow ning

Test Start: 2016.12.15 @ 21:51:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

32 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	ocmw 2%o 24%m 76%w	1.457
124.00	ocw m 2%o 2%w 96%m	1.739
82.00	ocm 3%o 97%m	1.150
10.00	free oil 100%o	0.140

Total Length: 340.00 ft Total Volume: 4.486 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

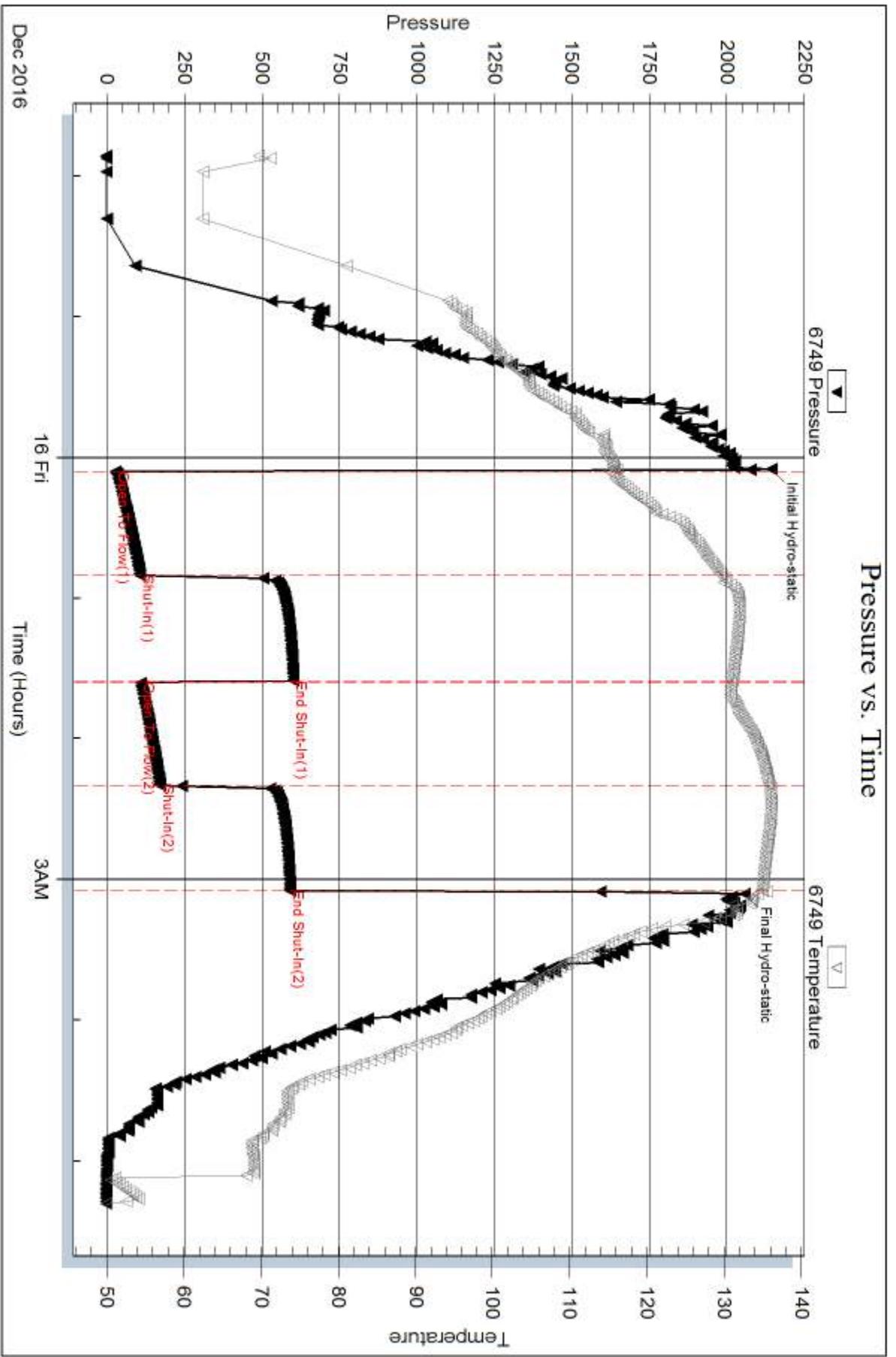
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .651@29.6=24,000 ppm

API= 29 @30 corrected to 32



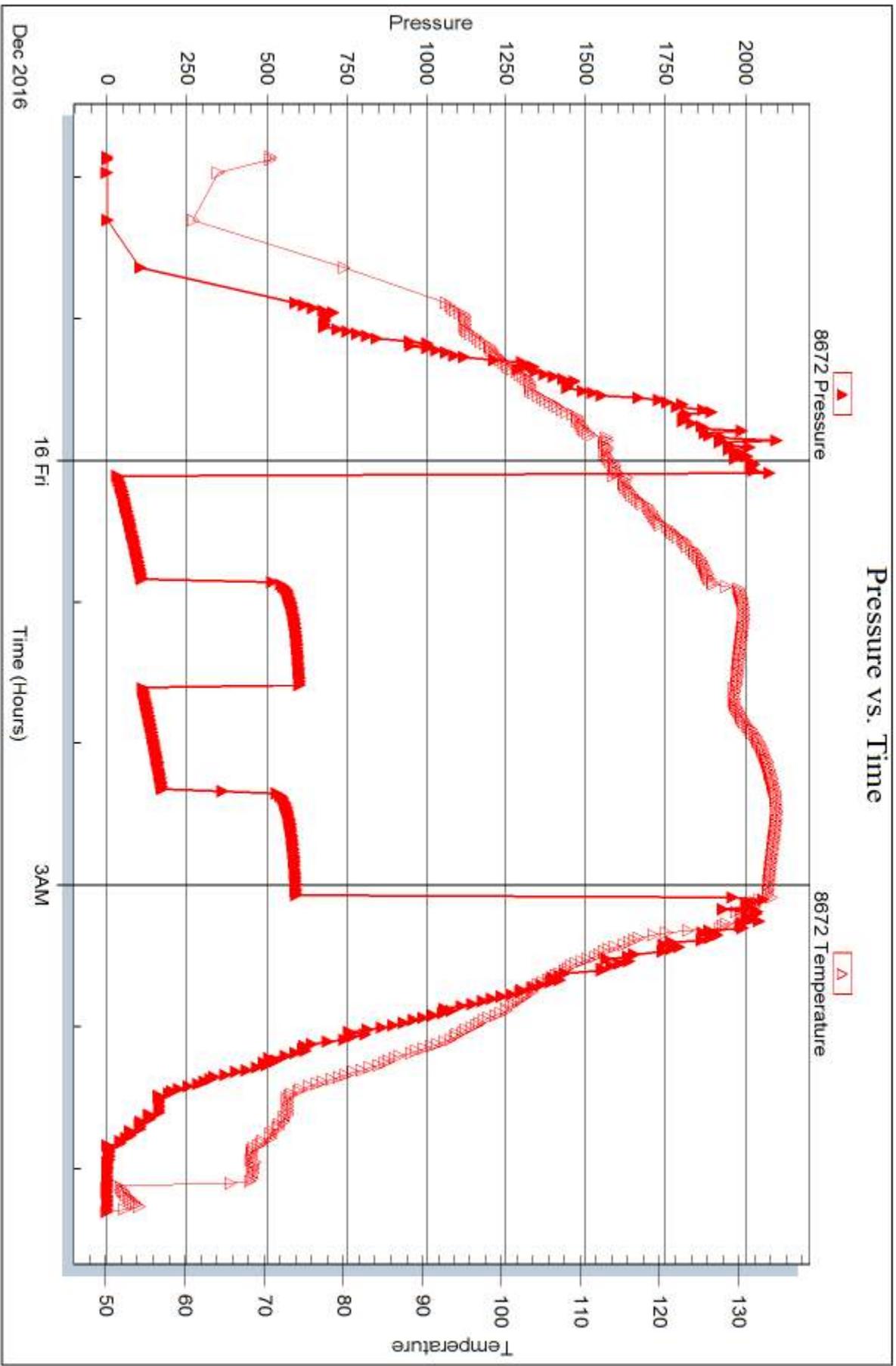
Serial #: 8672

Inside

Downing Nelson Oil Co

O/Bleness #1-32

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65686

Printed: 2016.12.20 @ 10:07:30



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

O'Bleness #1-32

32-18s-31w Scott,KS

Start Date: 2016.12.16 @ 16:49:15

End Date: 2016.12.17 @ 00:46:45

Job Ticket #: 65687 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.20 @ 10:07:10



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co

32-18s-31w Scott, KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65687

DST#: 2

ATTN: Marc Downing

Test Start: 2016.12.16 @ 16:49:15

GENERAL INFORMATION:

Formation: **LKC L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:59:00

Time Test Ended: 00:46:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4272.00 ft (KB) To 4336.00 ft (KB) (TVD)

Reference Elevations: 2976.00 ft (KB)

Total Depth: 4336.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Outside

Press@RunDepth: 244.86 psig @ 4311.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.16

End Date:

2016.12.17

Last Calib.: 2016.12.17

Start Time: 16:49:15

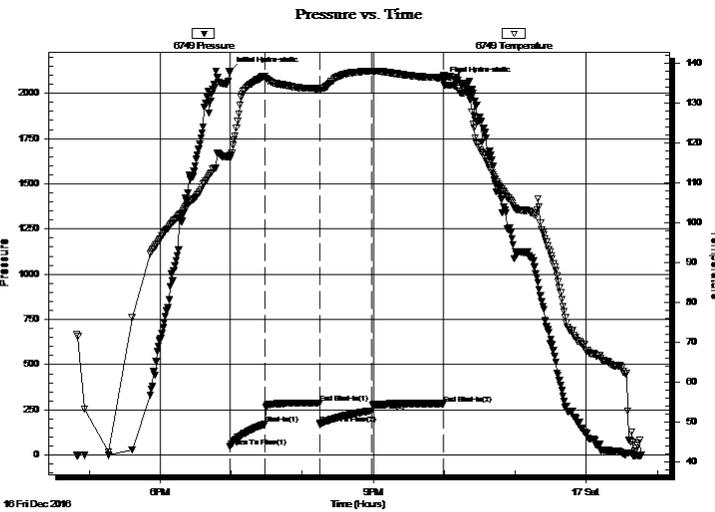
End Time:

00:46:45

Time On Btm: 2016.12.16 @ 18:58:45

Time Off Btm: 2016.12.16 @ 21:59:30

TEST COMMENT: IF:BOB in 10 min.
IS:No return blow
FF:BOB in 33 min.
FS:No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2120.34	116.89	Initial Hydro-static
1	43.94	116.17	Open To Flow (1)
30	171.26	136.89	Shut-In(1)
76	286.08	133.69	End Shut-In(1)
76	172.97	133.67	Open To Flow (2)
120	244.86	138.08	Shut-In(2)
181	284.62	136.39	End Shut-In(2)
181	2065.61	136.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	ocmw 2%o 40%m 58%w	1.46
124.00	ocw m 5%o 25%w 70%m	1.74
216.00	w com 5%w 10%o 85%m	3.03
5.00	free oil 100%o	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Downing Nelson Oil Co

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65687

DST#: 2

ATTN: Marc Downing

Test Start: 2016.12.16 @ 16:49:15

Tool Information

Drill Pipe:	Length: 4246.00 ft	Diameter: 3.80 inches	Volume: 59.56 bbl	Tool Weight: 1500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 59.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	4272.00 ft			Final 66000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	92.00 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			4245.00	
Shut In Tool	5.00			4250.00	
Hydraulic tool	5.00			4255.00	
Jars	5.00			4260.00	
Safety Joint	3.00			4263.00	
Packer	5.00			4268.00	28.00 Bottom Of Top Packer
Packer	4.00			4272.00	
Stubb	1.00			4273.00	
Perforations	4.00			4277.00	
Change Over Sub	1.00			4278.00	
Drill Pipe	32.00			4310.00	
Change Over Sub	1.00			4311.00	
Recorder	0.00	8672	Inside	4311.00	
Recorder	0.00	6749	Outside	4311.00	
Perforations	20.00			4331.00	
Bullnose	5.00			4336.00	64.00 Bottom Packers & Anchor
Total Tool Length:	92.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning Nelson Oil Co

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65687

DST#: 2

ATTN: Marc Dow ning

Test Start: 2016.12.16 @ 16:49:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

31 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

24500 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.36 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
124.00	ocmw 2%o 40%m 58%w	1.457
124.00	ocw m 5%o 25%w 70%m	1.739
216.00	w com 5%w 10%o 85%m	3.030
5.00	free oil 100%o	0.070

Total Length: 469.00 ft Total Volume: 6.296 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

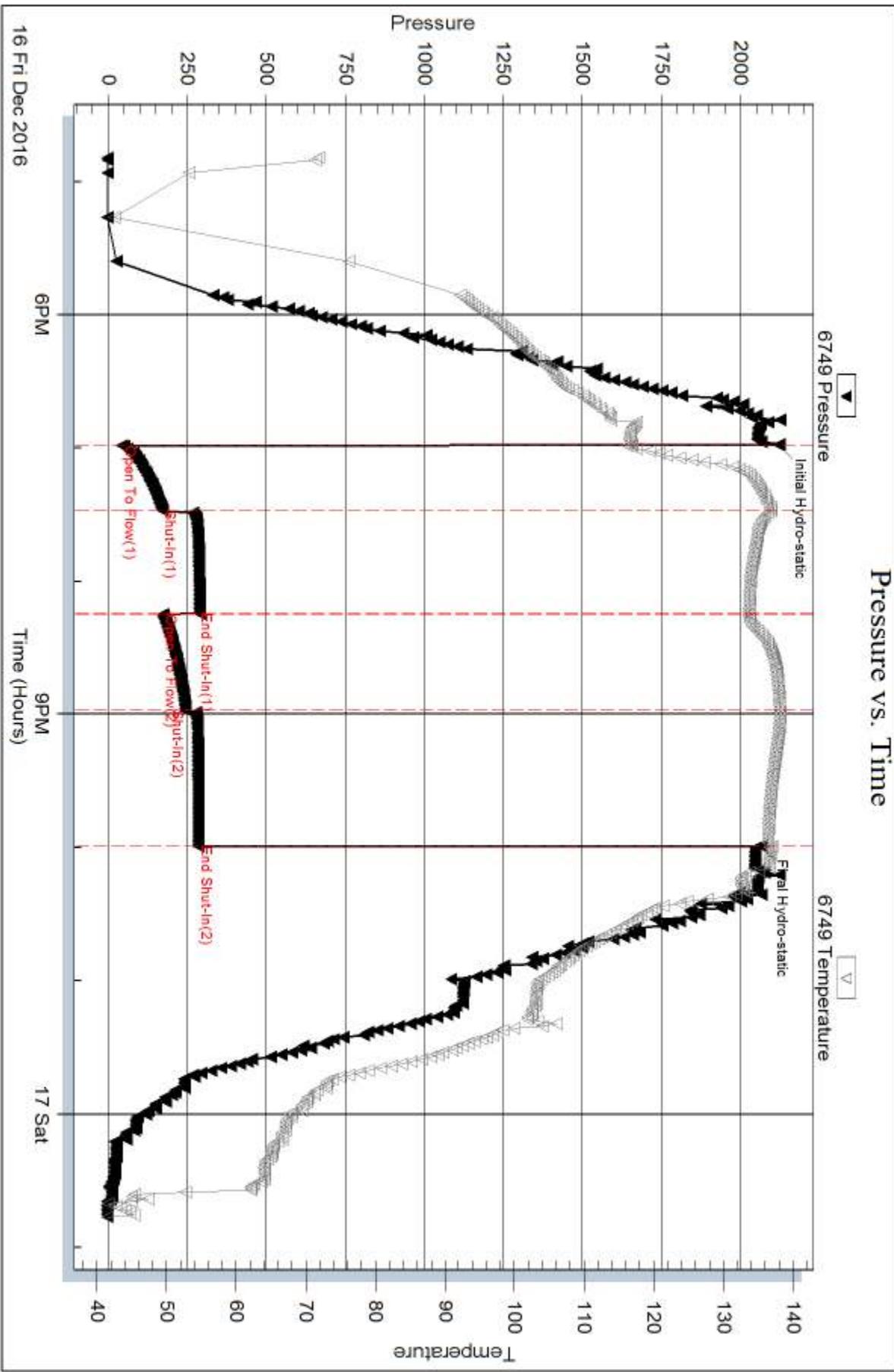
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .646@32.6=24,500 ppm

API= 40@ 28* corrected to 31 @ 60*



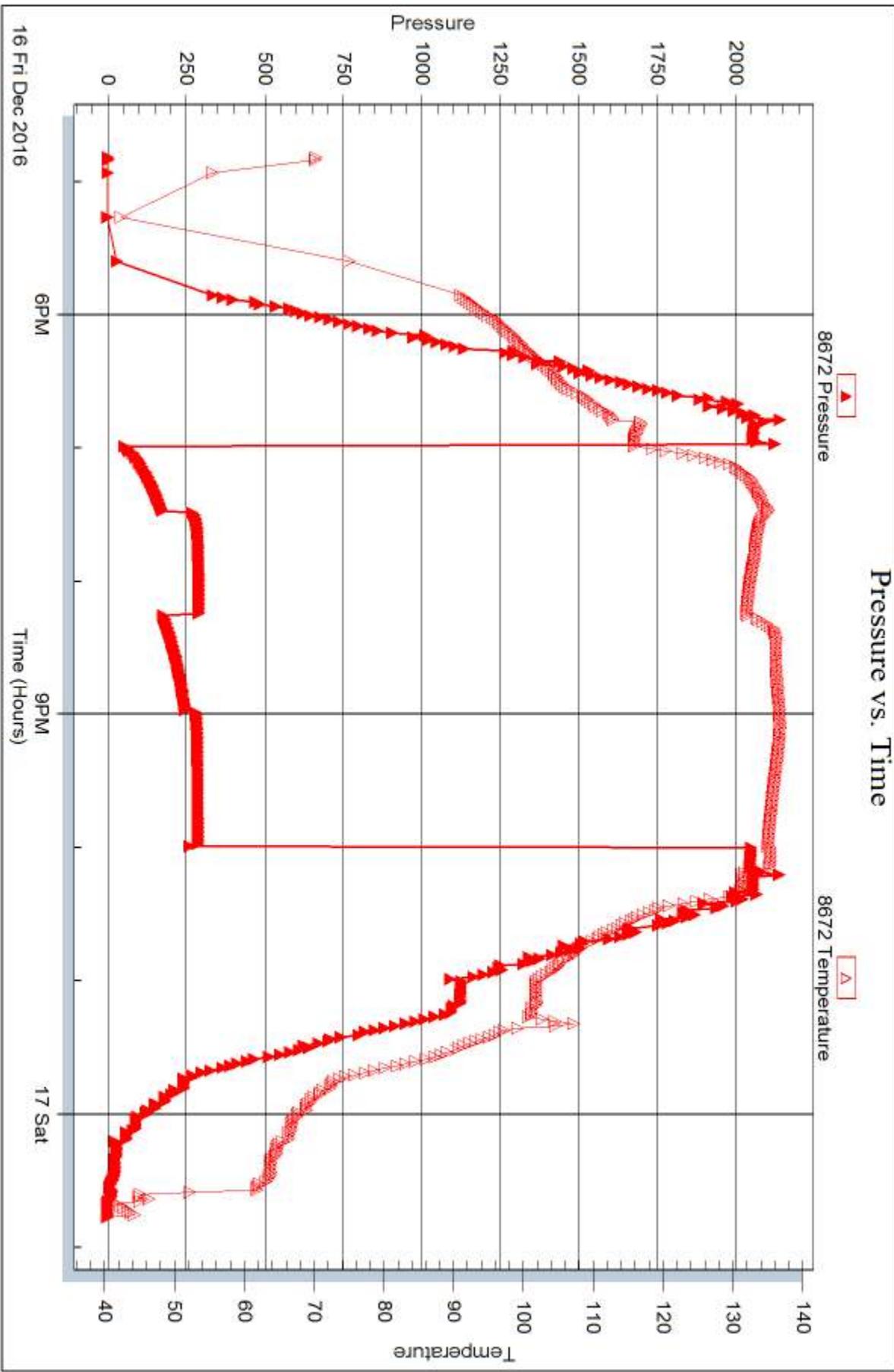
Serial #: 8672

Inside

Downing Nelson Oil Co

O/Beness #1-32

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65687

Printed: 2016.12.20 @ 10:07:11



DRILL STEM TEST REPORT

Prepared For: **Downing Nelson Oil Co**

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

O'Bleness #1-32

32-18s-31w Scott,KS

Start Date: 2016.12.17 @ 15:49:15

End Date: 2016.12.17 @ 23:18:30

Job Ticket #: 65688 DST #: 3

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

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

Printed: 2016.12.20 @ 10:06:15



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Downing Nelson Oil Co

32-18s-31w Scott, KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65688

DST#: 3

ATTN: Marc Downing

Test Start: 2016.12.17 @ 15:49:15

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:23:30

Time Test Ended: 23:18:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

Interval: 4383.00 ft (KB) To 4433.00 ft (KB) (TVD)

Reference Elevations: 2976.00 ft (KB)

Total Depth: 4433.00 ft (KB) (TVD)

2971.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 6749 Outside

Press@RunDepth: 53.83 psig @ 4423.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2016.12.17

End Date:

2016.12.17

Last Calib.:

2016.12.17

Start Time: 15:49:15

End Time:

23:18:30

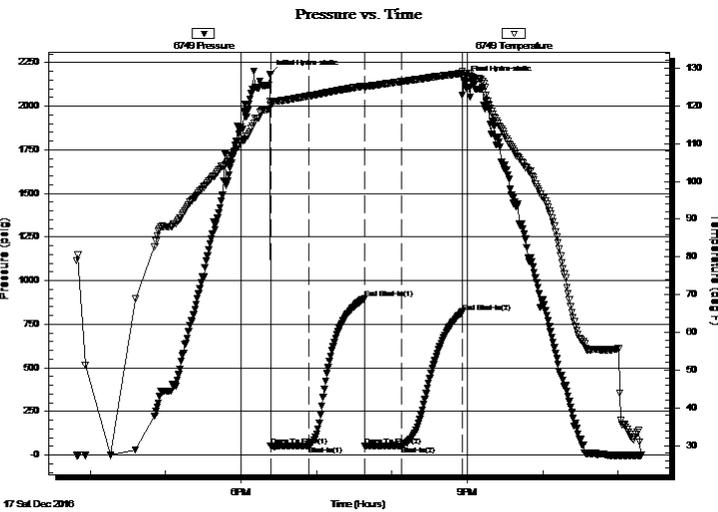
Time On Btm:

2016.12.17 @ 18:23:15

Time Off Btm:

2016.12.17 @ 20:57:15

TEST COMMENT: IF: Built to 1/4" blow
IS: No return blow
FF: Built to weak surface blow
FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2184.98	121.11	Initial Hydro-static
1	50.73	120.07	Open To Flow (1)
31	51.56	122.59	Shut-In(1)
76	899.20	125.28	End Shut-In(1)
76	53.23	124.96	Open To Flow (2)
105	53.83	126.46	Shut-In(2)
153	820.73	128.62	End Shut-In(2)
154	2148.63	128.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	ocm 2% o 98% m	0.15

* 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

32-18s-31w Scott,KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65688

DST#: 3

ATTN: Marc Downing

Test Start: 2016.12.17 @ 15:49:15

Tool Information

Drill Pipe:	Length: 4339.00 ft	Diameter: 3.80 inches	Volume: 60.86 bbl	Tool Weight:	1500.00 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: 31.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	80000.00 lb
			<u>Total Volume: 61.01 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	4383.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	50.00 ft				
Tool Length:	78.00 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			4356.00	
Shut In Tool	5.00			4361.00	
Hydraulic tool	5.00			4366.00	
Jars	5.00			4371.00	
Safety Joint	3.00			4374.00	
Packer	5.00			4379.00	28.00 Bottom Of Top Packer
Packer	4.00			4383.00	
Stubb	1.00			4384.00	
Perforations	5.00			4389.00	
Change Over Sub	1.00			4390.00	
Drill Pipe	32.00			4422.00	
Change Over Sub	1.00			4423.00	
Recorder	0.00	8672	Inside	4423.00	
Recorder	0.00	6749	Outside	4423.00	
Perforations	5.00			4428.00	
Bullnose	5.00			4433.00	50.00 Bottom Packers & Anchor
Total Tool Length:	78.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing Nelson Oil Co

32-18s-31w Scott, KS

PO Box 1019
Hays KS 67601

O'Bleness #1-32

Job Ticket: 65688

DST#: 3

ATTN: Marc Downing

Test Start: 2016.12.17 @ 15:49:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.38 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	ocm 2%o 98%m	0.148

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

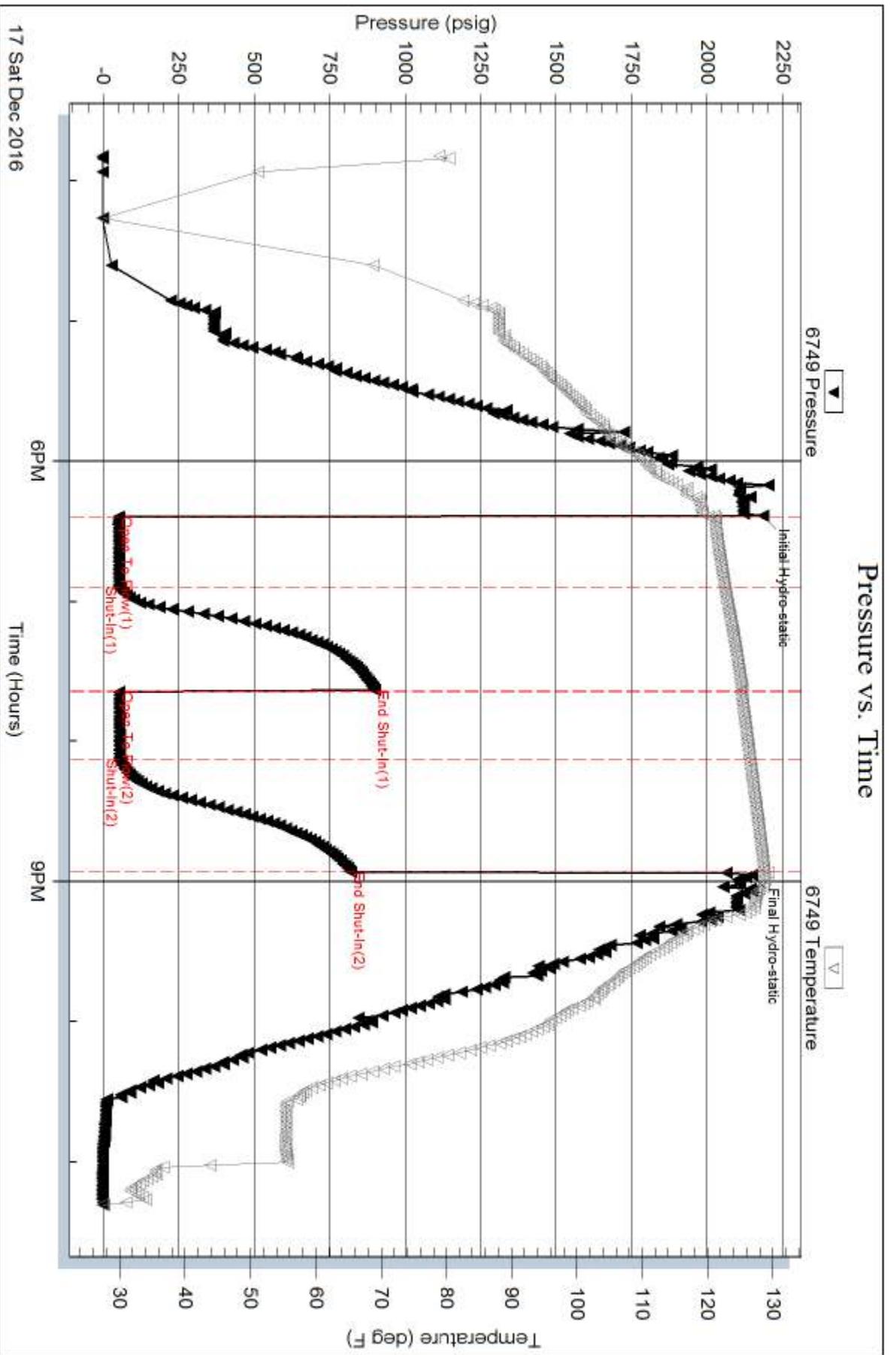
Recovery Comments:

Serial #: 6749

Outside Dow nrig Nelson Oil Co

O'Brien #1-32

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65688

Printed: 2016.12.20 @ 10:06:15

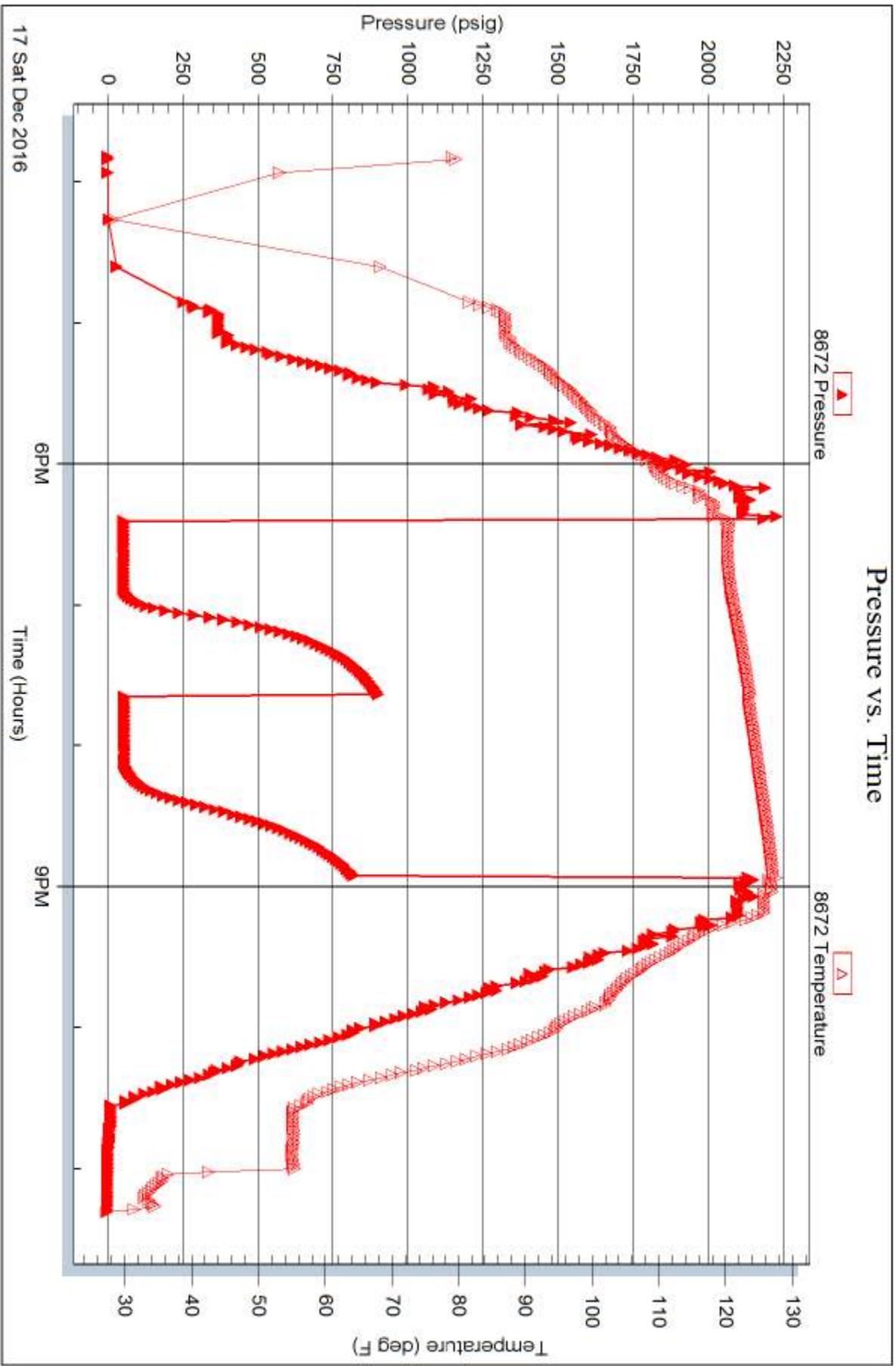
Serial #: 8672

Inside

Dow nIng Nelson Oil Co

O'Bleness #1-32

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65688

Printed: 2016.12.20 @ 10:06:16



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65686**

Well Name & No. O'Bleness 1-32 Test No. 1 Date 12-15-16
 Company Downing Nelson Oil Company Inc Elevation 2976 KB 2971 GL
 Address P.O Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Disco 3
 Location: Sec. 32 Twp. 18 Rge. 31 Co. Scott State KS

Interval Tested 4232-4269 Zone Tested K
 Anchor Length 37 Drill Pipe Run 4188 Mud Wt. 9.1
 Top Packer Depth 4227 Drill Collars Run 31 Vis 61
 Bottom Packer Depth 4232 Wt. Pipe Run Ø WL 7.2
 Total Depth 4269 Chlorides 2000 ppm System LCM 5

Blow Description IF: BOB IN 23 MIN
IS: No Return Blow
FF: Built to 9" Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Free oil</u>		<u>100</u>		
<u>82</u>	<u>OCM</u>	<u>3</u>		<u>97</u>	
<u>124</u>	<u>OCWM</u>	<u>2</u>	<u>2</u>	<u>96</u>	
<u>124</u>	<u>OCMW</u>	<u>2</u>	<u>74</u>	<u>24</u>	
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 340 BHT 135 Gravity 32 API RW 651 @ 29.4 °F Chlorides 24000 ppm

(A) Initial Hydrostatic	<u>2142</u>	<input checked="" type="checkbox"/> Test	<u>\$1150.00/-</u>	T-On Location	<u>18:45</u>
(B) First Initial Flow	<u>27</u>	<input checked="" type="checkbox"/> Jars	<u>250.00/-</u>	T-Started	<u>21:51</u>
(C) First Final Flow	<u>107</u>	<input checked="" type="checkbox"/> Safety Joint	<u>75.00/-</u>	T-Open	<u>00:06</u>
(D) Initial Shut-In	<u>607</u>	<input checked="" type="checkbox"/> Circ Sub	<u>NC</u>	T-Pulled	<u>03:06</u>
(E) Second Initial Flow	<u>109</u>	<input type="checkbox"/> Hourly Standby		T-Out	<u>05:18</u>
(F) Second Final Flow	<u>171</u>	<input checked="" type="checkbox"/> Mileage	<u>22RT = \$16.50/-</u>	Comments	
(G) Final Shut-In	<u>590</u>	<input type="checkbox"/> Sampler			
(H) Final Hydrostatic	<u>2058</u>	<input type="checkbox"/> Straddle		<input type="checkbox"/> Ruined Shale Packer	

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

Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility

Sub Total \$1491.50/-

Sub Total 0
 Total 1491.50
 MP/DST Disc't

Approved By _____ Our Representative Mike Roberts



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65687**

Well Name & No. O'Bleness 1-32 Test No. 2 Date 12-16-16
 Company Downing Nelson Oil Company Inc. Elevation 2974 KB 2971 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Marc Downing Rig Disco 3
 Location: Sec. 32 Twp. 18⁰ Rge. 31 Co. SCOTT State KS

Interval Tested 4272-4336 Zone Tested L
 Anchor Length 64 Drill Pipe Run 4246 Mud Wt. 9.1
 Top Packer Depth 4267 Drill Collars Run 31 Vis 54
 Bottom Packer Depth 4272 Wt. Pipe Run Ø WL 8.4
 Total Depth 4336 Chlorides 2000 ppm System LCM 6
 Blow Description IF: BOB IN 10 MIN
IS: NO Return Blow
FF: BOB IN 33 MIN
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>free oil</u>				
<u>216</u>	<u>OCMW WCOM</u>	<u>10</u>	<u>5</u>	<u>85</u>	
<u>124</u>	<u>OCWM</u>	<u>5</u>	<u>25</u>	<u>70</u>	
<u>124</u>	<u>OCmw</u>	<u>2</u>	<u>58</u>	<u>40</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec Total <u>469</u>	BHT <u>137</u>	Gravity <u>31</u>	API RW <u>1646</u>	@ <u>32.4</u> ° F	Chlorides <u>24500</u> ppm

(A) Initial Hydrostatic 2120
 (B) First Initial Flow 43
 (C) First Final Flow 171
 (D) Initial Shut-In 286
 (E) Second Initial Flow 172
 (F) Second Final Flow 244
 (G) Final Shut-In 284
 (H) Final Hydrostatic 2065

Test \$1150.00/-
 Jars \$250.00/-
 Safety Joint \$75.00/-
 Circ Sub NC
 Hourly Standby _____
 Mileage 22 RT = \$16.50/-
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total \$1491.50/-

T-On Location 15:45
 T-Started 16:49
 T-Open 18:58
 T-Pulled 21:58
 T-Out 00:46
 Comments _____
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1491.50
 MP/DST Disc't _____

Initial Open 30
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 60

Approved By _____ Our Representative Mike Roberts

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



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65688**

Well Name & No. O'Bleness 1-32 Test No. 3 Date 12-17-16
 Company Downing Nelson Oil Company Inc Elevation 2976 KB 2971 GL
 Address P.O. Box 1019 Hays KS 67601
 Co. Rep / Geo. Al Downing Rig Disco 3
 Location: Sec. 32 Twp. 18 Rge. 31 Co. SCOTT State KS

Interval Tested 4383-4433 Zone Tested Marmaton
 Anchor Length 50 Drill Pipe Run 4339 Mud Wt. 9.2
 Top Packer Depth 4378 Drill Collars Run 31 Vis 51
 Bottom Packer Depth 4383 Wt. Pipe Run Ø WL 8.4
 Total Depth 4433 Chlorides 1500 ppm System LCM 5
 Blow Description IF: Built to 1/4" Blow
IS: No Return Blow
FF: Built to weak surface Blow
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>0cm</u>		<u>2</u>	<u>98</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 30 BHT 128 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2184</u>	<input checked="" type="checkbox"/> Test <u>\$ 1150.00/-</u>	T-On Location <u>13:30</u>
(B) First Initial Flow <u>50</u>	<input checked="" type="checkbox"/> Jars <u>\$ 250.00/-</u>	T-Started <u>15:49</u>
(C) First Final Flow <u>51</u>	<input checked="" type="checkbox"/> Safety Joint <u>\$ 75.00/-</u>	T-Open <u>18:23</u>
(D) Initial Shut-In <u>899</u>	<input checked="" type="checkbox"/> Circ Sub <u>NC</u>	T-Pulled <u>20:53</u>
(E) Second Initial Flow <u>53</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>23:18</u>
(F) Second Final Flow <u>53</u>	<input checked="" type="checkbox"/> Mileage <u>22 RT = \$ 16.00/-</u>	Comments <u>Loaded Tools at 03:00 12-20-16</u>
(G) Final Shut-In <u>820</u>	<input type="checkbox"/> Sampler <u>Mileage x 2 16.50</u>	
(H) Final Hydrostatic <u>2148</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1508.00</u>
	<input type="checkbox"/> Accessibility <u>1508</u>	MP/DST Disc't
	Sub Total <u>\$ 1491.50/-</u>	

Approved By _____ Our Representative Mike Roberts

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