



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1244909
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- 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 ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1244909

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 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				

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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Jones 1-30
Doc ID	1244909

All Electric Logs Run

Micro
Sonic
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Jones 1-30
Doc ID	1244909

Tops

Name	Top	Datum
Top Anhydrite	1362'	+734
Base Anhydrite	1396'	+700
Topeka	3058'	-962
Heebner	3280'	-1184
Toronto	3300'	-1204
LKC	3322'	-1226
BKC	3552'	-1456
Arbuckle	3684'	-1588

ALLIED OIL & GAS SERVICES, LLC 055626

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>1-24-15</u>	SEG <u>30</u>	TWP <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Jones</u>	WELL # <u>1-30</u>	LOCATION <u>Plainville</u>	COUNTY <u>Frank</u>		STATE <u>Ks</u>		
OLD OR NEW (Circle one)		<u>S to curd 2 e s into</u>					

CONTRACTOR Discovery
 TYPE OF JOB Surface
 HOLE SIZE 8 7/8 DEPTH 220'
 CASING SIZE 8 7/8 DEPTH 220'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 15'
 CEMENT LEFT IN CSG. 15'
 PERFS.
 DISPLACEMENT 13.05 cu ft

OWNER
 CEMENT AMOUNT ORDERED 30000 Com
 150 SK + 47.00 + 27.91
 150 SK + 37.00 + 27.91
 COMMON 30000 @ 17.9 \$ 5370.00
 POZMIX @
 GEL 564 lb @ 1.50 \$ 846.00
 CHLORIDE 987 lb @ 1.10 \$ 1085.70
 ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Amy Plummer
 # 409 HELPER Walter D
 BULK TRUCK
 # 378 DRIVER Tracy J
 BULK TRUCK
 # DRIVER

Material @ 6437.70
Line @ 2695.08
 HANDLING 30000 FT @ 2.48 \$ 744.00
 MILEAGE 141 mi @ 2.75 \$ 387.75
 TOTAL 14869.46

REMARKS:

See Cementer Job log

SERVICE

DEPTH OF JOB 220'
 PUMP TRUCK CHARGE \$ 1612.25
 EXTRA FOOTAGE @
 MILEAGE Nagay 10 @ 1.7 \$ 171.00
 MANIFOLD Light 10 @ 4.4 \$ 44.00
 TOTAL 2765.00
Line 1106.00 TOTAL 1633.00

CHARGE TO: Downing Nelson D.1
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

~~_____
 @
 @
 @
 @
 @~~
 TOTAL 1633.00

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME
 SIGNATURE [Signature]

SALES TAX (If Any)
 TOTAL CHARGES \$ 9502.70
 DISCOUNT \$ 3801.08 (40%)
 Net 5701.62
 IF PAID IN 30 DAYS

ALLIED OIL & GAS SERVICES, LLC 055629

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

DATE <u>1-31-15</u>	SEC <u>30</u>	TWP <u>10</u>	RANGE <u>17</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Jones</u>	WELL # <u>1-30</u>	LOCATION <u>Plainville Kc</u>				COUNTY <u>Rock</u>	STATE <u>Ks</u>
OLD OR NEW (Circle one)							

CONTRACTOR Discovery

TYPE OF JOB PTA

HOLE SIZE 4 7/8 T.D.

CASING SIZE DEPTH

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 3660'

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT

OWNER

CEMENT AMOUNT ORDERED 305 sk

60140 + 41.90l

60140 COMMON 305 sk @ 18.92 \$ 5710.60

POZMIX @

GEL @

CHLORIDE @

ASC @

EQUIPMENT

PUMP TRUCK CEMENTER Andy Plannert

417 HELPER Tracy J.

BULK TRUCK # 473 DRIVER Ben C

BULK TRUCK # DRIVER

Pool + 1 sk @ 10

7116 @ 2.97 \$ 218.64

Mattress @ 5999.29

Alloy @ 2399.71

HANDLING 305 sk @ 0.48 \$ 156.40

MILEAGE 131.5 @ 2.15 \$ 282.73

TOTAL 5999.29

REMARKS:

P1= 3460' @ 50SK P2= 1380' @ 50SK
P3= 810' @ 100SK P4= 270' @ 50SK
P5= 45' @ 10SK + 1X8" wooden plug

See Cementing Job log

P6= RAT - 30SK P7= Mouse 1BSK

Plugging # 99996

CHARGE TO: Downing & Nelson D.

STREET _____
CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 3660'

PUMP TRUCK CHARGE \$ 2,558.75

EXTRA FOOTAGE @

MILEAGE Heavy 20 @ 7.7 \$ 154.00

MANIFOLD high 10 @ 4.4 \$ 44.00

TOTAL 3874.78

Disc 1549.92 TOTAL 2454.86

PLUG & FLOAT EQUIPMENT

1X8" wooden plug @ 110.00

TOTAL 110.00

Disc 44.00 TOTAL 110.00

SALES TAX (If Any) _____

TOTAL CHARGES \$ 2,984.07

DISCOUNT \$ 3,993.63 IF PAID IN 30 DAYS

Net 5990.44



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks, KS

Start Date: 2015.01.28 @ 14:03:59

End Date: 2015.01.28 @ 20:54:29

Job Ticket #: 61153 DST #: 1

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

Printed: 2015.02.02 @ 09:12:56



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

GENERAL INFORMATION:

Formation: **Toonto r- LKC"D"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:42:29
 Time Test Ended: 20:54:29
 Interval: **3280.00 ft (KB) To 3395.00 ft (KB) (TVD)**
 Total Depth: 3395.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 2093.00 ft (KB)
 2085.00 ft (CF)
 KB to GR/CF: 8.00 ft

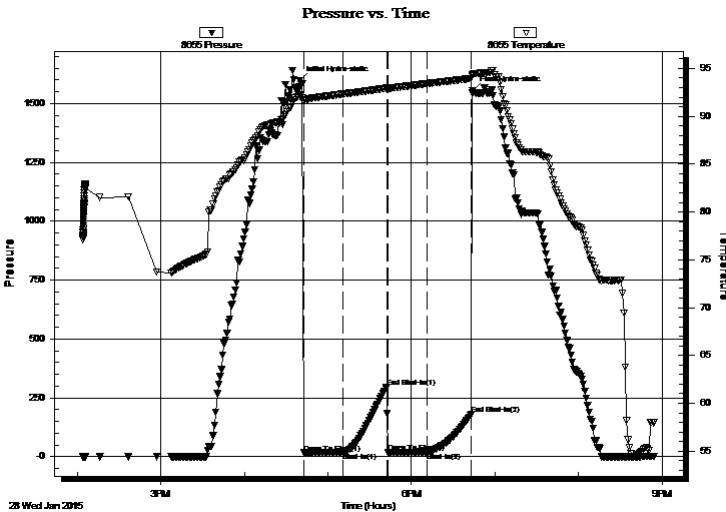
Serial #: 8655

Outside

Press@RunDepth: 20.08 psig @ 3281.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.28 End Date: 2015.01.28 Last Calib.: 2015.01.28
 Start Time: 14:04:00 End Time: 20:54:29 Time On Btm: 2015.01.28 @ 16:39:59
 Time Off Btm: 2015.01.28 @ 18:43:59

TEST COMMENT: 30- IF- .5" blow throughout
 30- IS- No blow
 30- FF- No blow
 30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1598.29	92.13	Initial Hydro-static
3	16.17	91.58	Open To Flow (1)
31	18.24	92.33	Shut-In(1)
62	295.58	92.93	End Shut-In(1)
63	19.04	92.91	Open To Flow (2)
91	20.08	93.41	Shut-In(2)
123	180.38	93.96	End Shut-In(2)
124	1554.64	94.36	Final Hydro-static

Recovery

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

Gas Rates

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



DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

GENERAL INFORMATION:

Formation: **Toonto r- LKC"D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:42:29

Time Test Ended: 20:54:29

Test Type: Conventional Bottom Hole (Initial)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3280.00 ft (KB) To 3395.00 ft (KB) (TVD)

Total Depth: 3395.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2093.00 ft (KB)

2085.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8651

Inside

Press@RunDepth: psig @ 3281.00 ft (KB)

Start Date: 2015.01.28

End Date: 2015.01.28

Capacity: 8000.00 psig

Last Calib.: 2015.01.28

Start Time: 14:03:45

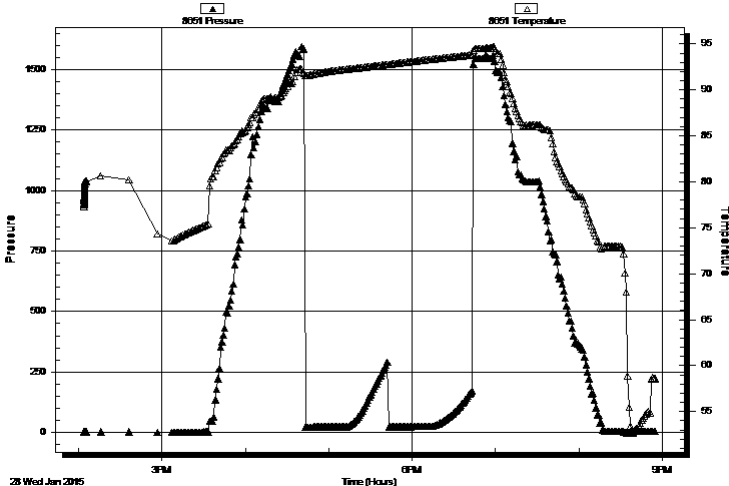
End Time: 20:55:14

Time On Btm:

Time Off Btm:

TEST COMMENT: 30- IF- .5" blow throughout
30- IS- No blow
30- FF- No blow
30- FSI- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

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

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

Tool Information

Drill Pipe:	Length: 3250.00 ft	Diameter: 3.75 inches	Volume: 44.40 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 57000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 41000.00 lb
Depth to Top Packer:	3280.00 ft			Final 41000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	115.00 ft			
Tool Length:	135.00 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			3261.00	
Shut In Tool	5.00			3266.00	
Hydraulic tool	5.00			3271.00	
Packer	5.00			3276.00	20.00 Bottom Of Top Packer
Packer	4.00			3280.00	
Stubb	1.00			3281.00	
Recorder	0.00	8651	Inside	3281.00	
Recorder	0.00	8655	Outside	3281.00	
Perforations	13.00			3294.00	
Change Over Sub	1.00			3295.00	
Drill Pipe	96.00			3391.00	
Change Over Sub	1.00			3392.00	
Bullnose	3.00			3395.00	115.00 Bottom Packers & Anchor

Total Tool Length: 135.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61153

DST#: 1

ATTN: Marc Dow ning

Test Start: 2015.01.28 @ 14:03:59

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

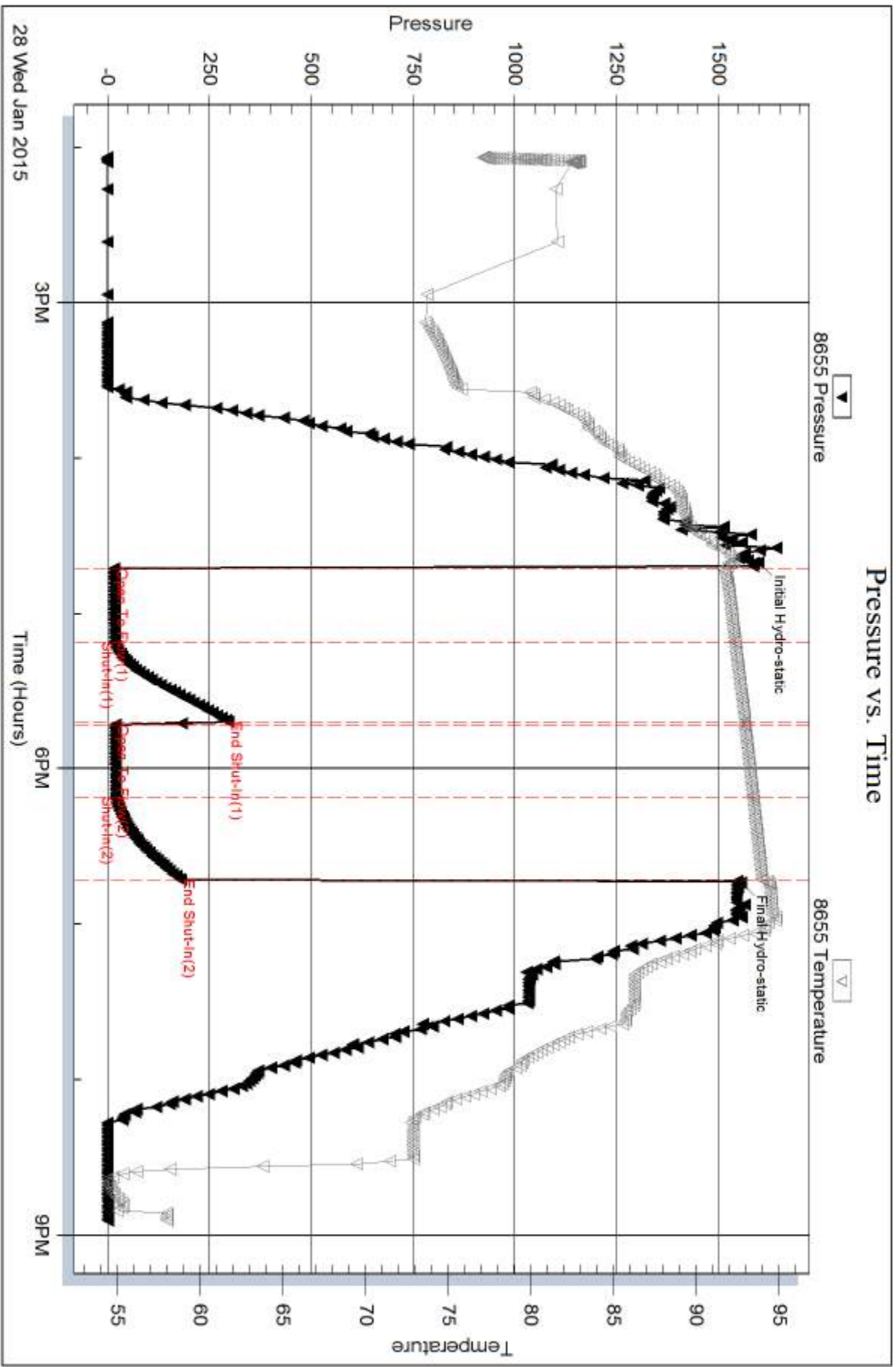
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



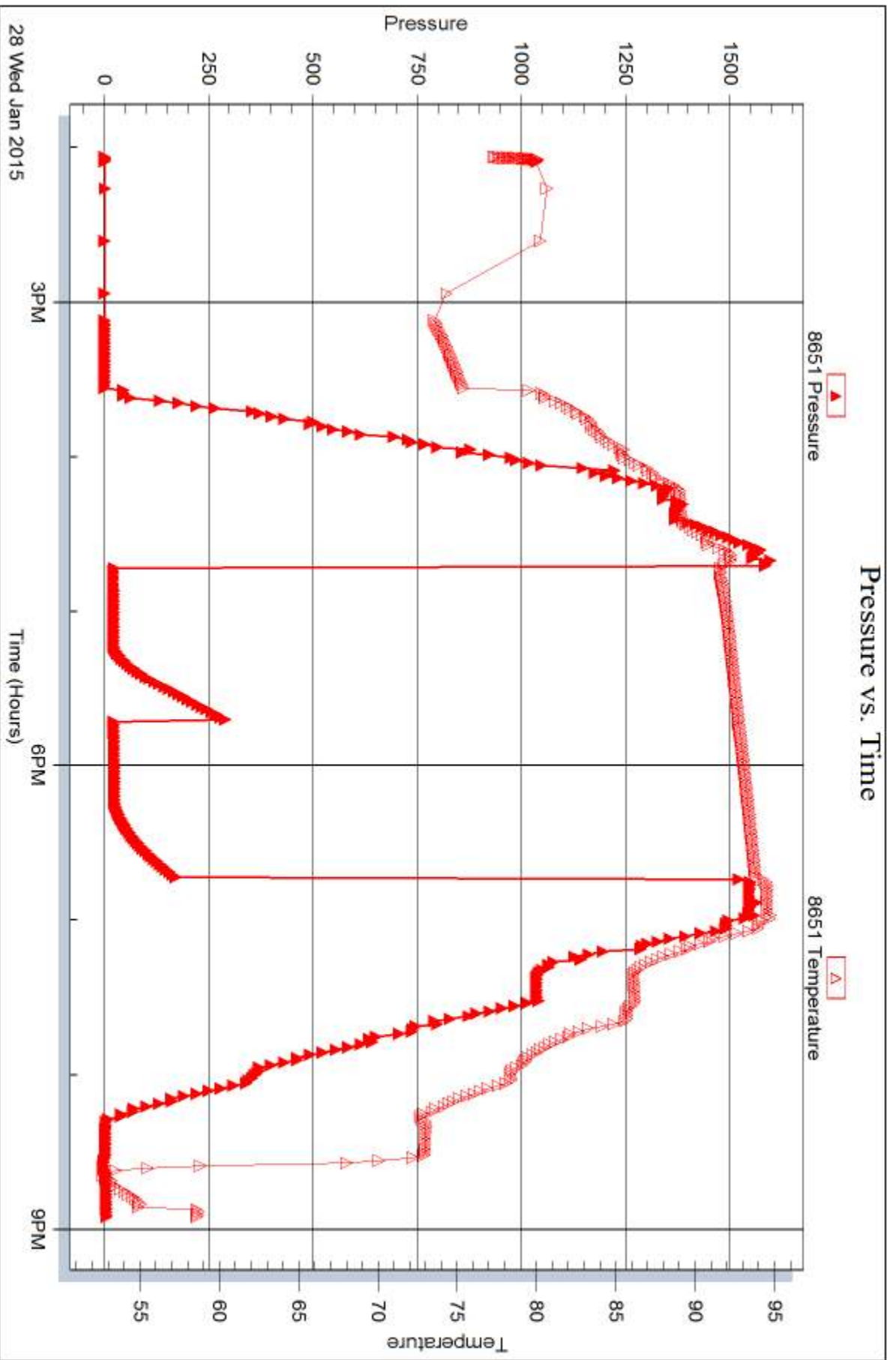
Serial #: 8651

Inside

Dow nrg-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 61153

Printed: 2015.02.02 @ 09:12:57



DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks,KS

Start Date: 2015.01.29 @ 04:25:18

End Date: 2015.01.29 @ 09:18:48

Job Ticket #: 61154 DST #: 2

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

Printed: 2015.02.02 @ 09:01:31



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

GENERAL INFORMATION:

Formation: **LKC "E - F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:57:18

Time Test Ended: 09:18:48

Test Type: Conventional Bottom Hole (Reset)

Tester: Brannan Lonsdale

Unit No: 62

Interval: 3392.00 ft (KB) To 3416.00 ft (KB) (TVD)

Reference Elevations: 2093.00 ft (KB)

Total Depth: 3416.00 ft (KB) (TVD)

2085.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8655 Outside

Press@RunDepth: 24.73 psig @ 3393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2015.01.29 End Date: 2015.01.29

Last Calib.: 2015.01.29

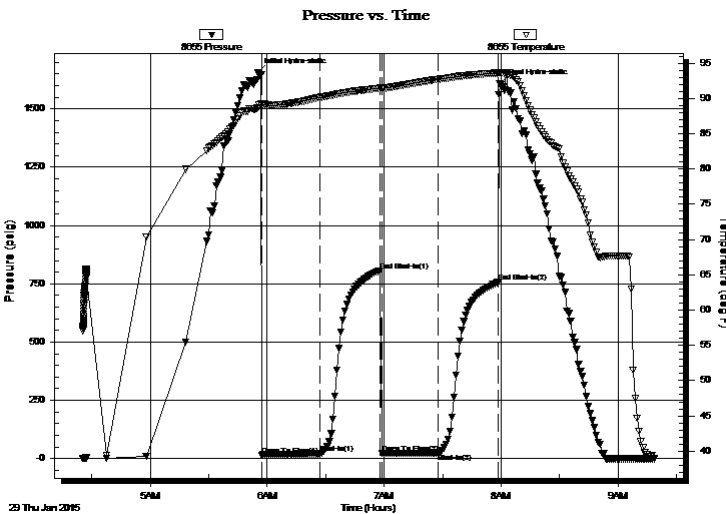
Start Time: 04:25:19 End Time: 09:18:48

Time On Btm: 2015.01.29 @ 05:55:18

Time Off Btm: 2015.01.29 @ 07:59:18

TEST COMMENT: 30- IF- Intermittent surface blow
30- IS- No blow
30- FF- No blow
30- FSI- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1655.42	88.71	Initial Hydro-static
2	15.60	88.90	Open To Flow (1)
32	20.97	90.14	Shut-In(1)
63	806.46	91.49	End Shut-In(1)
64	22.27	91.40	Open To Flow (2)
93	24.73	92.73	Shut-In(2)
123	756.12	93.65	End Shut-In(2)
124	1608.63	93.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M w / oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

GENERAL INFORMATION:

Formation: **LKC "E - F"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 05:57:18
 Time Test Ended: 09:18:48
 Interval: **3392.00 ft (KB) To 3416.00 ft (KB) (TVD)**
 Total Depth: 3416.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 2093.00 ft (KB)
 2085.00 ft (CF)
 KB to GR/CF: 8.00 ft

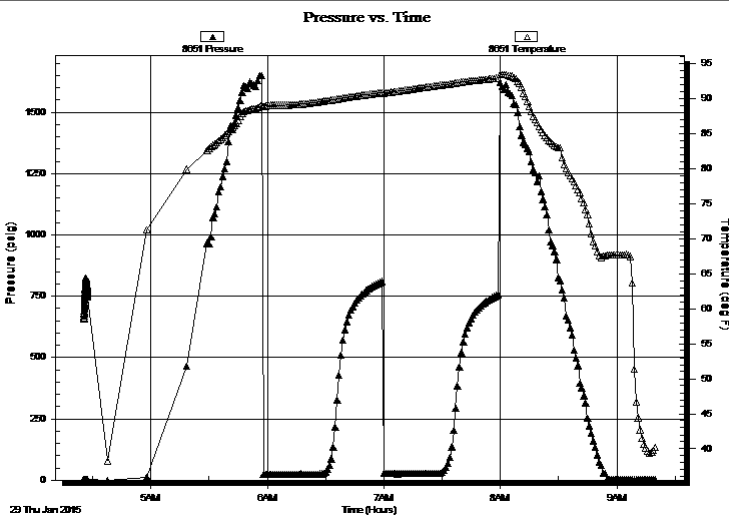
Serial #: 8651

Inside

Press@RunDepth: psig @ 3393.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.29 End Date: 2015.01.29 Last Calib.: 2015.01.29
 Start Time: 04:25:27 End Time: 09:19:56 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- Intermittent surface blow
 30- IS- No blow
 30- FF- No blow
 30- FSI- No blow

PRESSURE SUMMARY



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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	M w / oil spots	0.05

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

Tool Information

Drill Pipe:	Length: 3346.00 ft	Diameter: 3.75 inches	Volume: 45.71 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose:	42000.00 lb
			<u>Total Volume:</u> - bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial	40000.00 lb
Depth to Top Packer:	3392.00 ft			Final	40000.00 lb
Depth to Bottom Packer:	ft				
Interval betw een Packers:	24.00 ft				
Tool Length:	44.00 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			3373.00	
Shut In Tool	5.00			3378.00	
Hydraulic tool	5.00			3383.00	
Packer	5.00			3388.00	20.00 Bottom Of Top Packer
Packer	4.00			3392.00	
Stubb	1.00			3393.00	
Recorder	0.00	8651	Inside	3393.00	
Recorder	0.00	8655	Outside	3393.00	
Perforations	20.00			3413.00	
Bullnose	3.00			3416.00	24.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks,KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61154

DST#: 2

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 04:25:18

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	M w / oil spots	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

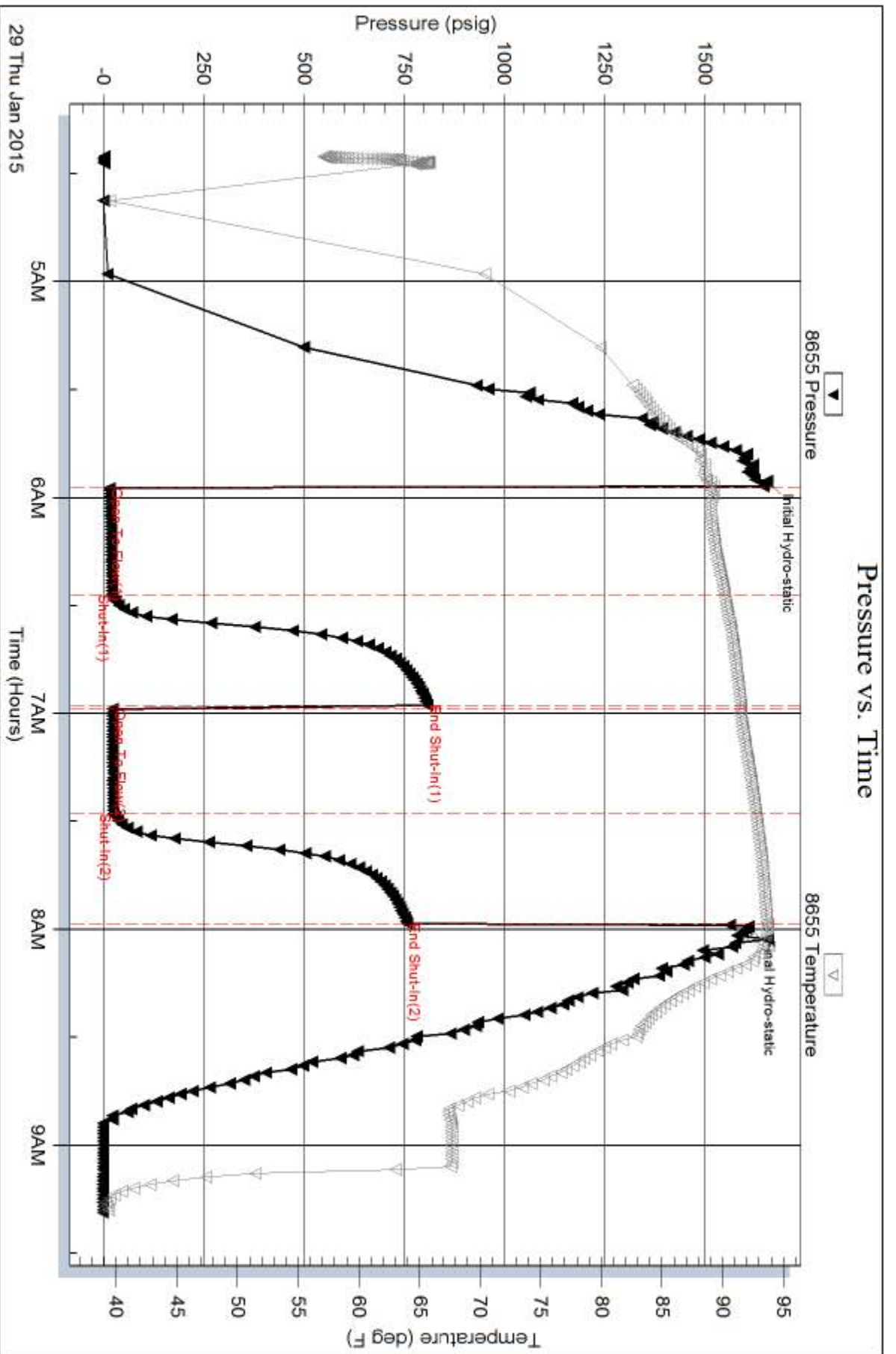
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



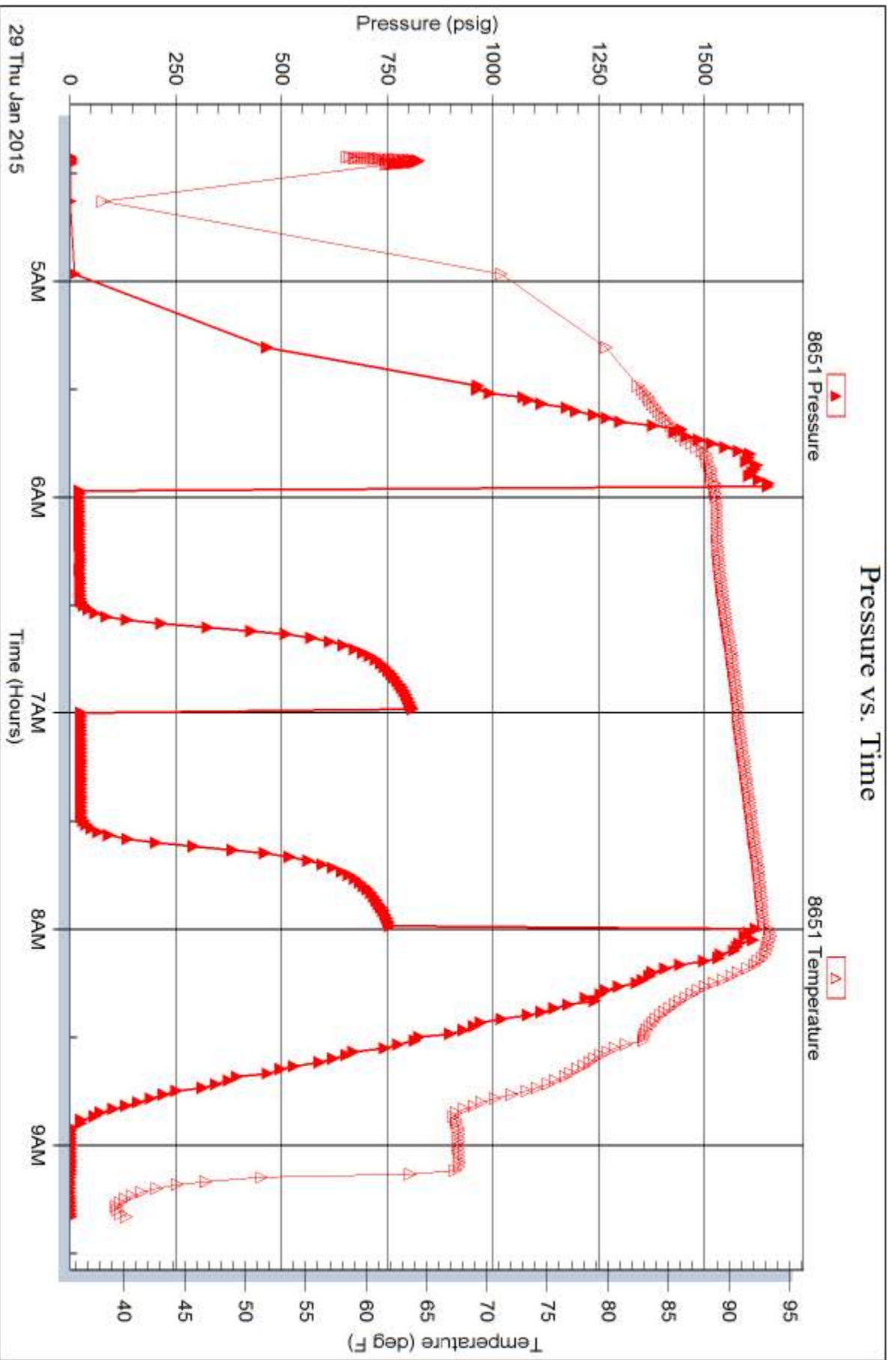
Serial #: 8651

Inside

Dow n/g-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 2





DRILL STEM TEST REPORT

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

PO Box 1019
Hays, KS 67601

ATTN: Marc Downing

Jones #1-30

30-10s-17w Rooks, KS

Start Date: 2015.01.29 @ 20:43:42

End Date: 2015.01.30 @ 01:53:12

Job Ticket #: 61155 DST #: 3

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

Printed: 2015.02.02 @ 09:12:25



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:20:42
 Time Test Ended: 01:53:12
 Interval: **3448.00 ft (KB) To 3514.00 ft (KB) (TVD)**
 Total Depth: 3514.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 2093.00 ft (KB)
 2085.00 ft (CF)
 KB to GR/CF: 8.00 ft

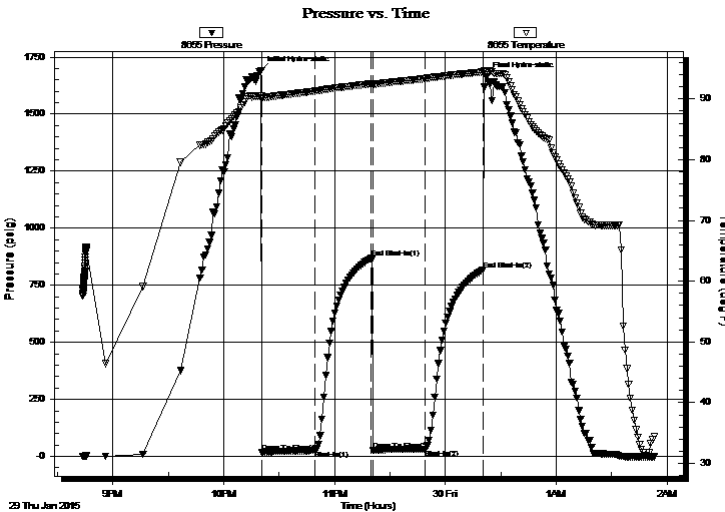
Serial #: 8655

Outside

Press@RunDepth: 32.49 psig @ 3449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.29 End Date: 2015.01.30 Last Calib.: 2015.01.30
 Start Time: 20:43:43 End Time: 01:53:12 Time On Btm: 2015.01.29 @ 22:20:12
 Time Off Btm: 2015.01.30 @ 00:22:12

TEST COMMENT: 30- IF- Built very slow ly to 1"
 30- IS- No blow
 30- FF- Built very slow ly to 3/4"
 30- FS- No blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1691.51	90.47	Initial Hydro-static
1	18.86	90.18	Open To Flow (1)
29	25.94	91.29	Shut-In(1)
60	867.98	92.49	End Shut-In(1)
61	27.55	92.39	Open To Flow (2)
89	32.49	93.35	Shut-In(2)
120	816.77	94.44	End Shut-In(2)
122	1662.58	94.55	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

GENERAL INFORMATION:

Formation: **LKC "H - J"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:20:42
 Time Test Ended: 01:53:12
 Interval: **3448.00 ft (KB) To 3514.00 ft (KB) (TVD)**
 Total Depth: 3514.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Brannan Lonsdale
 Unit No: 62
 Reference Elevations: 2093.00 ft (KB)
 2085.00 ft (CF)
 KB to GR/CF: 8.00 ft

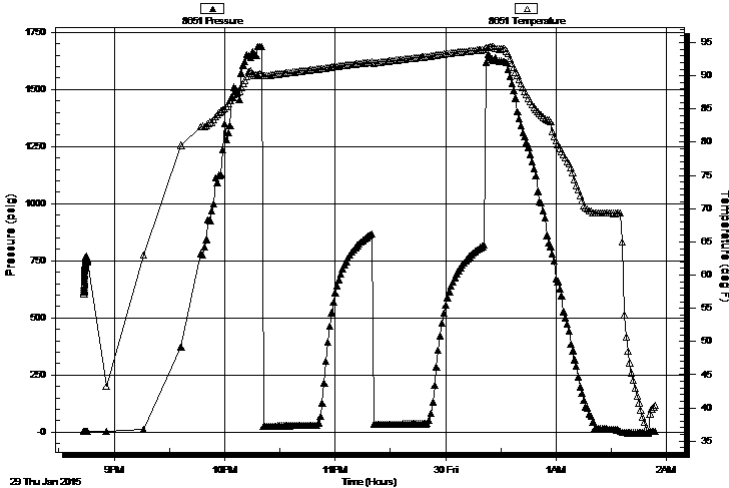
Serial #: 8651

Inside

Press@RunDepth: psig @ 3449.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2015.01.29 End Date: 2015.01.30 Last Calib.: 2015.01.30
 Start Time: 20:43:34 End Time: 01:54:03 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30- IF- Built very slow ly to 1"
 30- IS- No blow
 30- FF- Built very slow ly to 3/4"
 30- FS- No blow

Pressure vs. Time



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

Tool Information

Drill Pipe:	Length: 3409.00 ft	Diameter: 3.75 inches	Volume: 46.57 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: 29.00 ft	Diameter: 2.25 inches	Volume: 0.14 bbl	Weight to Pull Loose: 44000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3448.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	66.00 ft			
Tool Length:	86.00 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			3429.00	
Shut In Tool	5.00			3434.00	
Hydraulic tool	5.00			3439.00	
Packer	5.00			3444.00	20.00 Bottom Of Top Packer
Packer	4.00			3448.00	
Stubb	1.00			3449.00	
Recorder	0.00	8651	Inside	3449.00	
Recorder	0.00	8655	Outside	3449.00	
Perforations	28.00			3477.00	
Change Over Sub	1.00			3478.00	
Drill Pipe	32.00			3510.00	
Change Over Sub	1.00			3511.00	
Bullnose	3.00			3514.00	66.00 Bottom Packers & Anchor

Total Tool Length: 86.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co., Inc.

30-10s-17w Rooks, KS

PO Box 1019
Hays, KS 67601

Jones #1-30

Job Ticket: 61155

DST#: 3

ATTN: Marc Dow ning

Test Start: 2015.01.29 @ 20:43:42

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 48.00 sec/qt

Water Loss: 8.79 in³

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

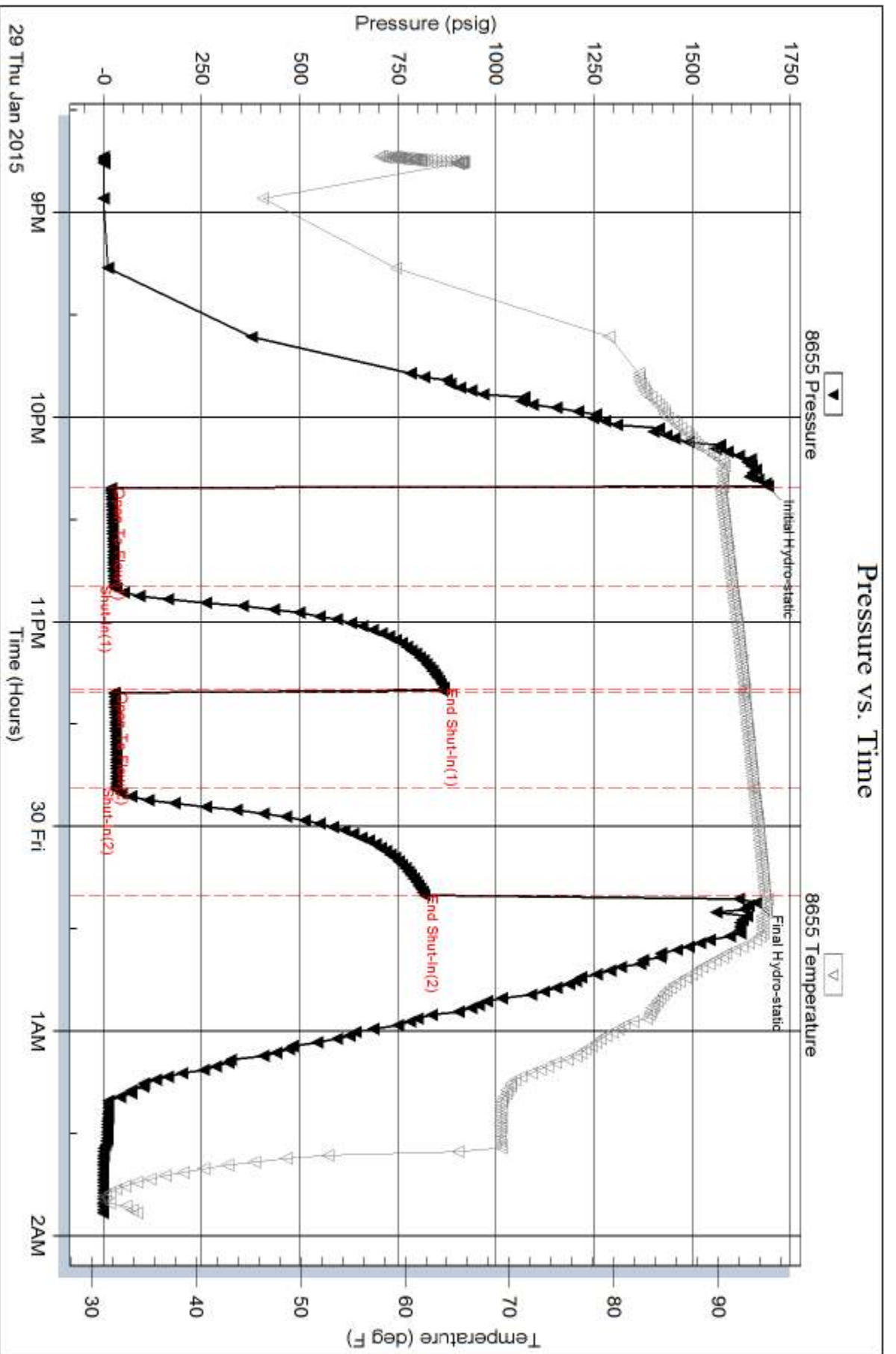
Recovery Comments:

Serial #: 8655

Outside Dow nng-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 61155

Printed: 2015.02.02 @ 09:12:26

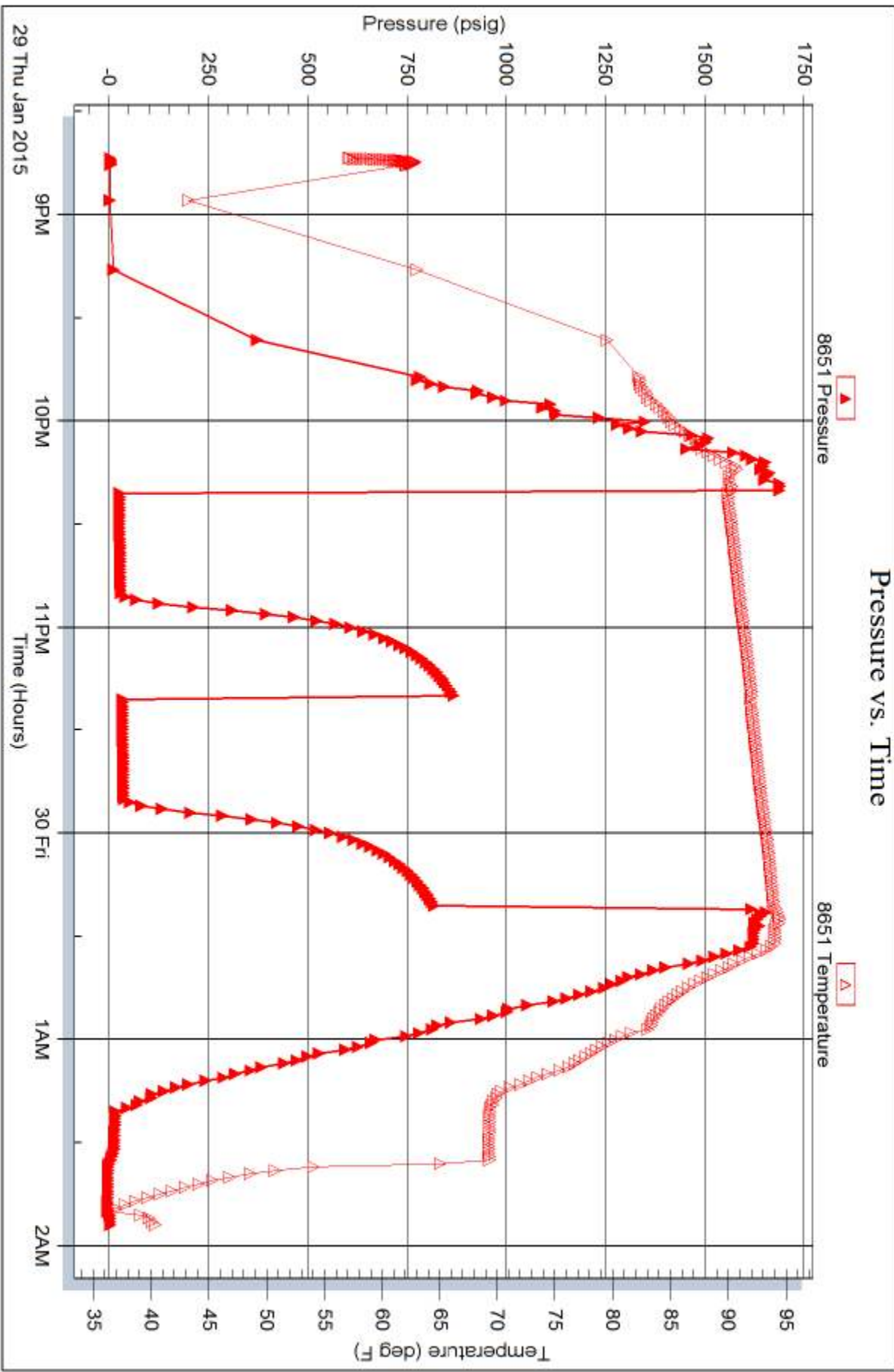
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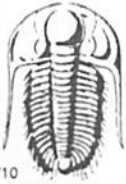
Inside

Dow n/g-Nelson Oil Co., Inc.

Jones #1-30

DST Test Number: 3





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61153

4/10

Well Name & No. Jones #1-30 Test No. 1 Date 1/28/15
 Company Downing-Nelson Oil Co., Inc. Elevation 2093 KB 2085 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 20 Twp. 10 S Rge. 17 W Co. Rooks State KS

Interval Tested 3280-3395 Zone Tested Top - LKC "D"
 Anchor Length 115' Drill Pipe Run 3250 Mud Wt. 9.1
 Top Packer Depth 3275 Drill Collars Run 29 Vis 53
 Bottom Packer Depth 3280 Wt. Pipe Run — WL 8.0
 Total Depth 3395 Chlorides 1,500 ppm System LCM 2#
 Blow Description IF - 1/2" blow throughout
ISI - No blow
FF - No blow
FST - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>M</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 5' BHT 94° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

- (A) Initial Hydrostatic 1598
- (B) First Initial Flow 16
- (C) First Final Flow 18
- (D) Initial Shut-In 296
- (E) Second Initial Flow 19
- (F) Second Final Flow 20
- (G) Final Shut-In 180
- (H) Final Hydrostatic 1555

- Test 1050
- Jars _____
- Safety Joint _____
- Circ Sub _____
- Hourly Standby _____
- Mileage 48 RT 48
- Sampler _____
- Straddle _____
- Shale Packer _____
- Extra Packer _____
- Extra Recorder _____
- Day Standby _____
- Accessibility _____
- Sub Total 1098

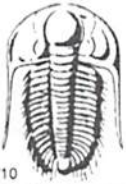
- T-On Location 1353
- T-Started 1404
- T-Open 1643
- T-Pulled 1843
- T-Out 2056

- Comments _____
- Ruined Shale Packer _____
- Ruined Packer _____
- Extra Copies _____
- Sub Total 0
- Total 1098
- MP/DST Disc't _____

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

Approved By _____ Our Representative Brennan Lonsdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 61154

Well Name & No. Jones #1-30 Test No. 2 Date 1/29/15
 Company Downing-Nelson Oil Co, Inc. Elevation 2093 KB 2085 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Downing Rig Discovery #1
 Location: Sec. 30 Twp. 10 S Rge. 17 W Co. Rooks State KS

Interval Tested 3392-3416 Zone Tested LKC "R+F"
 Anchor Length 24' Drill Pipe Run 3346 Mud Wt. 9.1
 Top Packer Depth 3387 Drill Collars Run 29 Vis 53
 Bottom Packer Depth 3392 Wt. Pipe Run — WL 8.0
 Total Depth 3416 Chlorides 1,500 ppm System LCM 2#

Blow Description IF - Intermittent surface blow
ISI - No blow
FF - No blow
FSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mw / oil spots</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

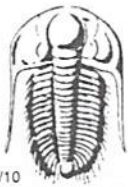
Rec Total 10' BHT 94° Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 1655 Test 1050 T-On Location 0417
 (B) First Initial Flow 16 Jars — T-Started 0425
 (C) First Final Flow 21 Safety Joint — T-Open 0558
 (D) Initial Shut-In 806 Circ Sub — T-Pulled 0758
 (E) Second Initial Flow 22 Hourly Standby — T-Out 0920
 (F) Second Final Flow 25 Mileage 48 RT 48 Comments —
 (G) Final Shut-In 756 Sampler —
 (H) Final Hydrostatic 1609 Straddle — Ruined Shale Packer —

Initial Open 30 Shale Packer — Ruined Packer —
 Initial Shut-In 30 Extra Packer — Extra Copies —
 Final Flow 30 Extra Recorder — Sub Total 0
 Final Shut-In 30 Day Standby — Total 1098
 Accessibility — MP/DST Disc't —
 Sub Total 1098

Approved By — Our Representative Brannon Longdale

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **61155**

4/10

Well Name & No. Jones #1-30 Test No. 3 Date 1/29/15
 Company Powling-Nelson Oil Co., Inc. Elevation 2093 KB 2085 GL
 Address PO Box 1019 Hays, KS 67601
 Co. Rep / Geo. Marc Powling Rig Discovery #1
 Location: Sec. 30 Twp. 10S Rge. 17 W Co. Rooks State KS

Interval Tested 3448-3514 Zone Tested LKC "H-J"
 Anchor Length 66' Drill Pipe Run 3409 Mud Wt. 9.2
 Top Packer Depth 3443 Drill Collars Run 29 Vis 48
 Bottom Packer Depth 3448 Wt. Pipe Run — WL 8.8
 Total Depth 3514 Chlorides 5000 ppm System LCM 1A

Blow Description IF - Built very slowly to 1"
ISI - No flow
PF - Built very slowly to 3/4"
PSI - No blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>M</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 15' BHT 94° Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic 1692 Test 1050 T-On Location 2035
 (B) First Initial Flow 19 Jars _____ T-Started 2044
 (C) First Final Flow 26 Safety Joint _____ T-Open 2221
 (D) Initial Shut-In 868 Circ Sub _____ T-Pulled 0021 1/30
 (E) Second Initial Flow 28 Hourly Standby _____ T-Out 0155
 (F) Second Final Flow 32 Mileage 48 RT x 2 Comments Loaded tools
 (G) Final Shut-In 817 Sampler 48+48 1/31 @ 0015
 (H) Final Hydrostatic 1663 Straddle _____ Ruined Shale Packer _____
 Shale Packer _____ Ruined Packer _____
 Extra Packer _____ Extra Copies _____
 Extra Recorder _____ Sub Total 0
 Day Standby _____ Total 1146
 Accessibility _____ MP/DST Disc't _____
 Sub Total 1146

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

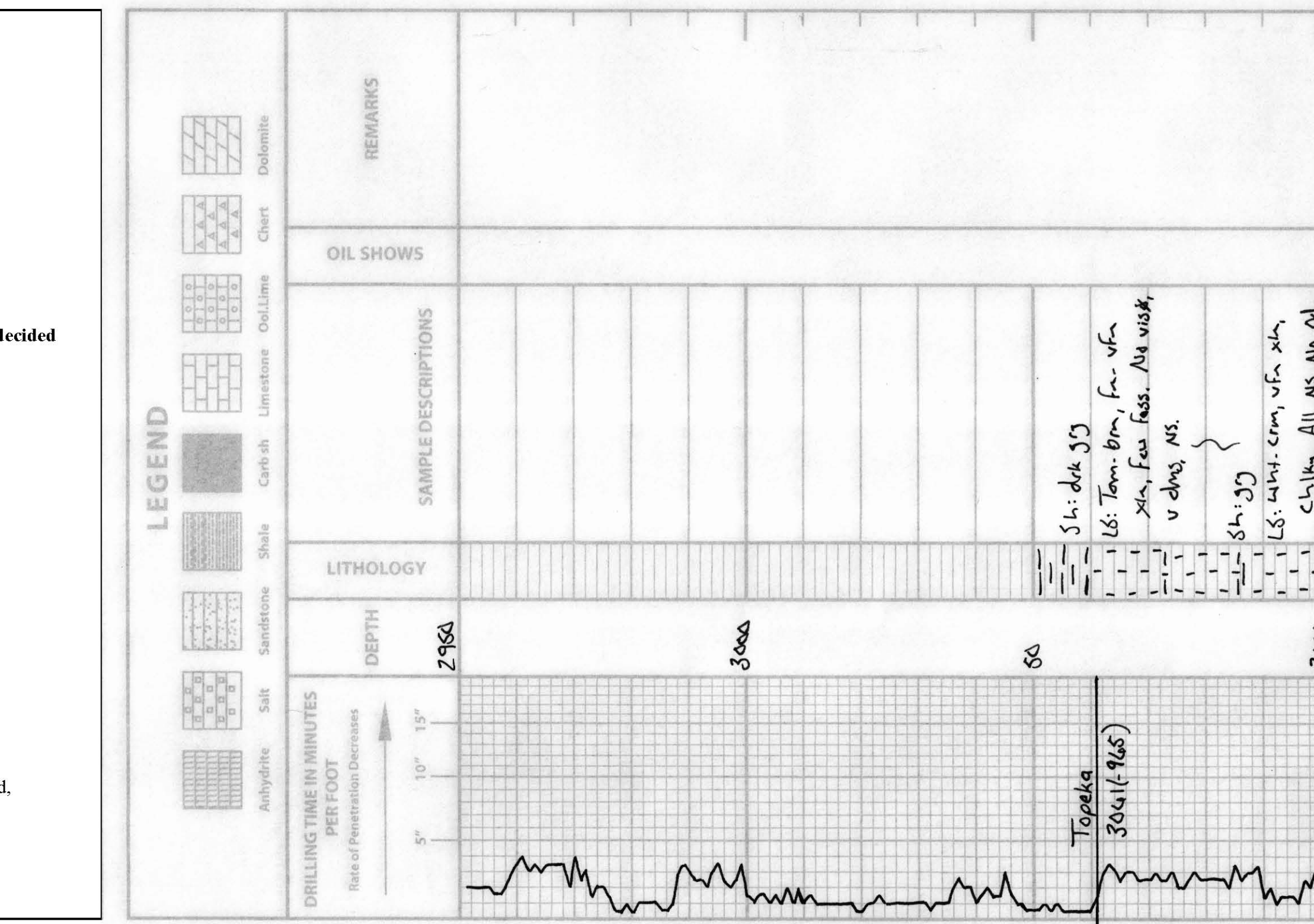
Approved By _____ Our Representative Brannan Lonsdale

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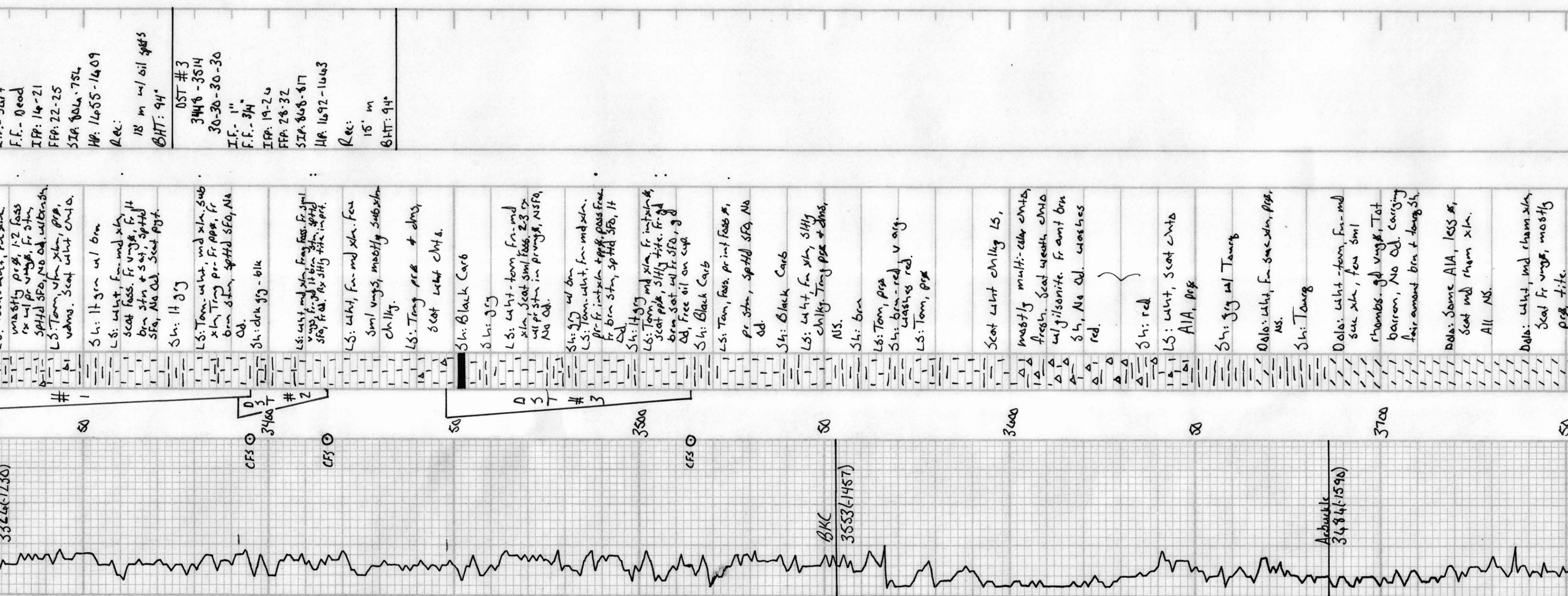
Marc A. Downing		Geologic Report	
Consulting Petroleum Geologist		Drilling Time and Sample Log	
Operator Downings-Nelson Oil Co., Inc.		Elevation KB 2096 DF 2094 GL 2088	
Lease Jones No. 1-30		Casing Record Surface 8 5/8" @ 220' Production None Electrical Surveys CNDL, DIL, MEL, Sonic	
API # 15-163-24281-0000		Field Wildcat	
Location 1787' FNL & 967' FEL		Sec. 30 Twp. 10s Rge. 17w	
County Rooks State Kansas		Datum	
Top Anhydrite	1367	1362	+734
Base Anhydrite	1400	1396	+700
Topoka	3061	3058	-962
Heebner	3283	3280	-1184
Toronto	3303	3300	-1204
LKC	3326	3322	-1226
BKC	3553	3552	-1456
Arbuckle	3686	3684	-1588
Total Depth	3771	3770	-1674
Reference Well For Structural Comparison Graham-Michealis Jones #1 SW-NW-NE Sec. 30-10s-17w		Respectfully Submitted, Marc A. Downing	

Drilling Contractor	Discovery Drilling, Rig #1
Commenced	1-24-15
Completed	1-30-15
Samples Saved From	3050 To RTD
Drilling Time Kept From	2950 To RTD
Samples Examined From	3050 To RTD
Geological Supervision From	2950 To RTD

Summary and Recommendations
Due to structural position, DST recovery, and log evaluation, it was decided to plug and abandon the well.



DEPTH	LITHOLOGY	SAMPLE DESCRIPTIONS	OIL SHOWS	REMARKS
2950	Sh: dk gr	Sh: dk gr		LS: 53 Lt: 91
3000	Ls: Tom. brn. fm. vfn xln	Ls: Tom. brn. fm. vfn xln, few fass. No vlsk. v dms. NS.		DST #1 3286-3395 30-30-30-30 I.F. - 1/2" F.F. - Dead I.F.P. 14-18 I.F.P. 19-20 S.P. 294-180 H.P. 1598-1665 Rec. 6' m BHT: 94'
3100	Sh: dk gr	Sh: dk gr		DST #2 3392-3414 30-30-30-30 I.F. - Surf F.F. - Dead I.F.P. 14-21 I.F.P. 22-25 S.P. 804-754 H.P. 1455-1409 Rec. 18 m w/ oil spots BHT: 94'
3200	Ls: Tom. brn. fm. vfn xln	Ls: Tom. brn. fm. vfn xln, sub xln in prt. fass. NS. Trng Tom. lg fass. ppx. dms.		DST #3 3448-3514 30-30-30-30 I.F. - 1" F.F. - 3/4" I.F.P. 19-24 I.F.P. 28-32 S.P. 808-817 H.P. 1692-1603 Rec. 16' m BHT: 94'
3300	Sh: dk gr	Sh: dk gr		
3400	Ls: Tom. brn. fm. vfn xln	Ls: Tom. brn. fm. vfn xln, sub xln in prt. fass. NS. Trng Tom. lg fass. ppx. dms.		
3500	Sh: dk gr	Sh: dk gr		
3600	Ls: Tom. brn. fm. vfn xln	Ls: Tom. brn. fm. vfn xln, sub xln in prt. fass. NS. Trng Tom. lg fass. ppx. dms.		
3700	Sh: dk gr	Sh: dk gr		
3770	Arbuckle	Arbuckle		



Respectfully Submitted,

Marc A. Downing