Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1208998

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 # 30717
Name: Downing-Nelson Oil Co Inc
Address 1: PO BOX 1019
Address 2:
City: HAYS State: KS Zip: 67601 + ____
Contact Person: Ron Nelson
Phone: (785) 621-2610
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Marc Downing
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 #:

05/27/2014	06/01/2014	06/02/2014
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-165-22071-00-00
Spot Description:
NW SE NE SW Sec. 15 Twp. 16 S. R. 17 ☐ East ☑ West
1780 Feet from ☐ North / ☑ South Line of Section
2015 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Rush
Lease Name: J & A Urban Well #: 1-15
Field Name: Unnamed
Producing Formation: None
Elevation: Ground: 2008 Kelly Bushing: 2016
Total Vertical Depth: 3660 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 1165 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: 39000 ppm Fluid volume: 500 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Gene Karlin Company
Lease Name: Ness (SWD) License #: 3444
Quarter NE Sec. 5 Twp. 13 S. R. 17 ☐ East ☑ West
County: Ellis Permit #: D25588

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:** NAOMI JAMES **Date:** 06/18/2014

[redacted] 1208998

Operator Name: Downing-Nelson Oil Co Inc Lease Name: J & A Urban Well #: 1-15

Sec. 15 Twp. 16 S. R. 17 ☐ East ☑ West County: Rush

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Attached	Attached	Attached

CASING RECORD ☑ New ☐ 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
Surface Pipe	12.25	8.625	23	1165	Common	425	2% Gel & 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing	-			
___ Plug Back TD				
___ 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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: Set At: Packer At: Liner Run: ☐ Yes ☐ No

Date of First, Resumed Production, SWD or ENHR. Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)* ☐ Other *(Specify)* _____

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	J & A Urban 1-15
Doc ID	1208998

All Electric Logs Run

Sonic
Micro
Dual Induction
Compensated Density Neutron

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	J & A Urban 1-15
Doc ID	1208998

Tops

Name	Top	Datum
Top Anhydrite	1154'	+864
Base Anhydrite	1192'	+826
Topeka	3030'	-1012
Heebner	3259'	-1241
Toronto	3278'	-1260
LKC	3308'	-1290
BKC	3533'	-1515
Arbuckle	3604'	-1586

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 237

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-28-14	15	16	17	Rush	KS		1:30 AM

Location Liebenthal, 6½E to 310 Rd, ¼N, E n2

Lease J&A Urban Well No. 1-15

Owner
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.

Contractor Discovery #3

Type Job Surface

Hole Size 12¼ T.D. 1165

Csg. 8 5/8 Depth 1165

Charge To Downing - Nelson

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 26.83

Cement Amount Ordered 425 sx com, 3%cc, 2%gel

Meas Line Displace 72.38661

EQUIPMENT

Pumptrk 17 No. Cementer Helper Lonnie W

Bulktrk 13 No. Driver Driver Doug

Bulktrk P4 No. Driver Driver Travis

Common 425

Poz. Mix

Gel. 9

Calcium 16

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 450

Mileage

JOB SERVICES & REMARKS

Remarks: Cement did circulate

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

FLOAT EQUIPMENT

Guide Shoe

Centralizer 3

Baskets

AFU Inserts

Float Shoe

Latch Down

1 Baffle plate

1 Rubber Plug

Pumptrk Charge Long Surface

Mileage 23

Tax

Discount

Total Charge

X Signature John Lowther

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

J & A Urban #1-15

15 16s 17w Rush,KS

Start Date: 2014.06.01 @ 03:03:00
End Date: 2014.06.01 @ 09:05:00
Job Ticket #: 58875 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.06.02 @ 13:56:23

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

15 16s 17w Rush,KS

J & A Urban #1-15

Job Ticket: 58875 **DST#: 1**

Test Start: 2014.06.01 @ 03:03:00

GENERAL INFORMATION:

Formation: **LKC " H-J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:15:45
Time Test Ended: 09:05:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76

Interval: 3432.00 ft (KB) To 3497.00 ft (KB) (TVD)
Total Depth: 3497.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

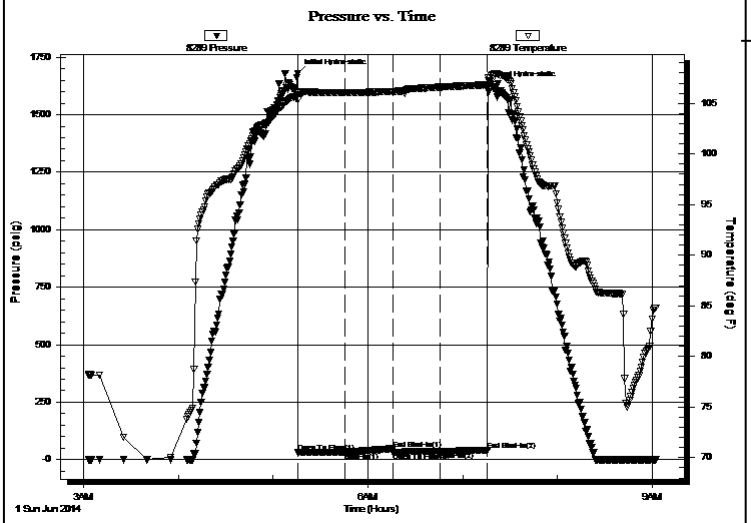
Reference Elevations: 2020.00 ft (KB)
2013.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8289 **Outside**

Press@RunDepth: 35.98 psig @ 3437.00 ft (KB)
Start Date: 2014.06.01 End Date: 2014.06.01
Start Time: 03:03:02 End Time: 09:02:15

Capacity: 8000.00 psig
Last Calib.: 2014.06.01
Time On Btm: 2014.06.01 @ 05:15:30
Time Off Btm: 2014.06.01 @ 07:16:00

TEST COMMENT: 30-IFP- Surface Blow Died in 18 min. Slid 8ft.
30-ISIP- No Blow
30-FFP- No Blow Flushed No Blow
30-FSIP- No Blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1679.30	105.87	Initial Hydro-static
1	31.85	105.41	Open To Flow (1)
30	32.89	106.05	Shut-In(1)
60	46.50	106.18	End Shut-In(1)
61	32.70	106.17	Open To Flow (2)
91	35.98	106.61	Shut-In(2)
121	42.43	106.84	End Shut-In(2)
121	1626.14	107.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%	0.28

Gas Rates

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

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

15 16s 17w Rush,KS

J & A Urban #1-15

Job Ticket: 58875 **DST#: 1**

Test Start: 2014.06.01 @ 03:03:00

GENERAL INFORMATION:

Formation: **LKC " H-J "**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 05:15:45
Time Test Ended: 09:05:00

Test Type: Conventional Bottom Hole (Initial)
Tester: Jim Svaty
Unit No: 76

Interval: 3432.00 ft (KB) To 3497.00 ft (KB) (TVD)
Total Depth: 3497.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

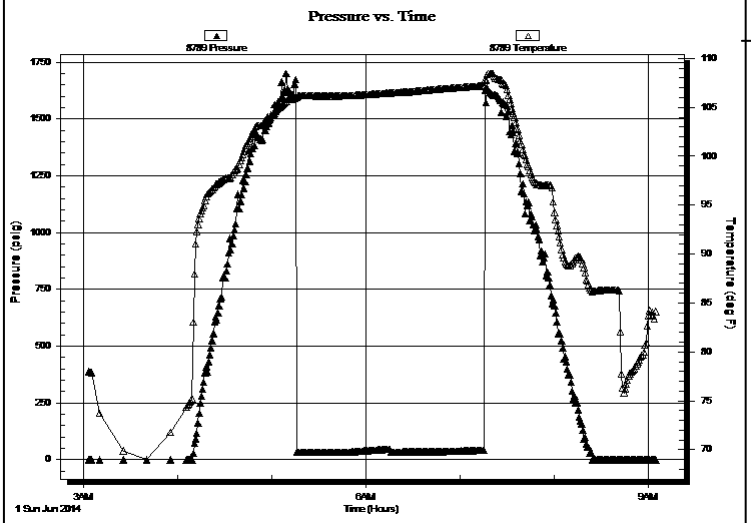
Reference Elevations: 2020.00 ft (KB)
2013.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8789 **Inside**

Press@RunDepth: psig @ 3437.00 ft (KB)
Start Date: 2014.06.01 End Date: 2014.06.01
Start Time: 03:03:02 End Time: 09:04:30

Capacity: 8000.00 psig
Last Calib.: 2014.06.01
Time On Btm:
Time Off Btm:

TEST COMMENT: 30-IFP- Surface Blow Died in 18 min. Slid 8ft.
30-ISIP- No Blow
30-FFP- No Blow Flushed No Blow
30-FSIP- No Blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
40.00	Mud 100%	0.28

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Dow ning

15 16s 17w Rush,KS

J & A Urban #1-15

Job Ticket: 58875 **DST#: 1**

Test Start: 2014.06.01 @ 03:03:00

Tool Information

Drill Pipe:	Length:	3388.00 ft	Diameter:	3.80 inches	Volume:	47.52 bbl	Tool Weight:		2500.00 lb
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	2.75 inches	Volume:	0.00 bbl	Weight set on Packer:		25000.00 lb
Drill Collar:	Length:	31.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		57000.00 lb
					Total Volume:	47.67 bbl	Tool Chased		0.00 ft
Drill Pipe Above KB:		8.00 ft					String Weight:	Initial	55000.00 lb
Depth to Top Packer:		3432.00 ft						Final	55000.00 lb
Depth to Bottom Packer:		ft							
Interval betw een Packers:		65.00 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			3412.00		
Shut In Tool	5.00			3417.00		
Hydraulic tool	5.00			3422.00		
Packer	5.00			3427.00	21.00	Bottom Of Top Packer
Packer	5.00			3432.00		
Stubb	1.00			3433.00		
Perforations	3.00			3436.00		
Change Over Sub	1.00			3437.00		
Recorder	0.00	8789	Inside	3437.00		
Recorder	0.00	8289	Outside	3437.00		
Blank Spacing	31.00			3468.00		
Change Over Sub	1.00			3469.00		
Perforations	25.00			3494.00		
Bullnose	3.00			3497.00	65.00	Bottom Packers & Anchor
Total Tool Length:	**86.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co Inc

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

15 16s 17w Rush,KS

J & A Urban #1-15

Job Ticket: 58875 **DST#: 1**

Test Start: 2014.06.01 @ 03:03:00

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:	49.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.96 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	5000.00 ppm				
Filter Cake:	2.00 inches				

Recovery Information

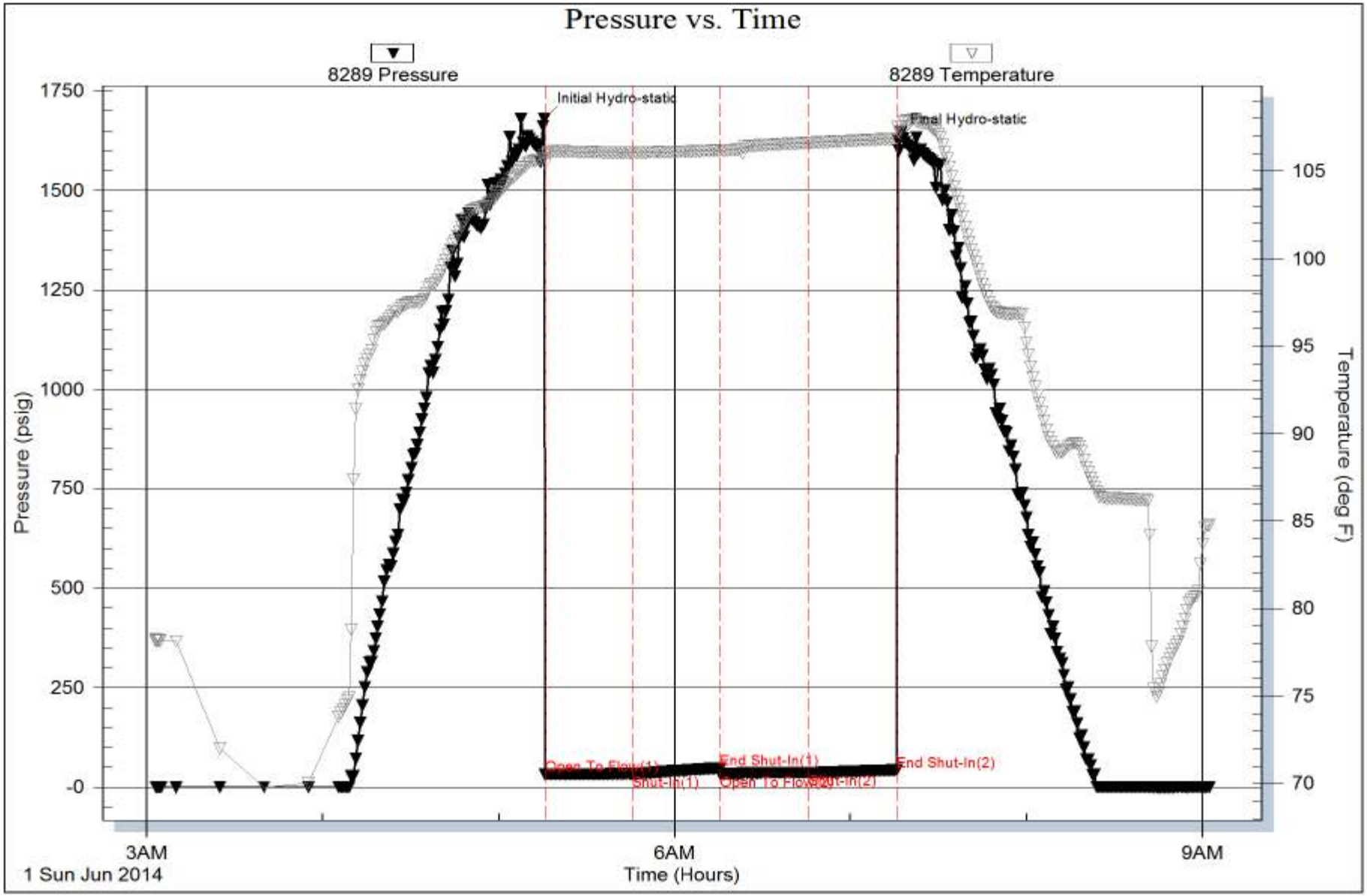
Recovery Table

Length ft	Description	Volume bbl
40.00	Mud 100%	0.279

Total Length: 40.00 ft Total Volume: 0.279 bbl

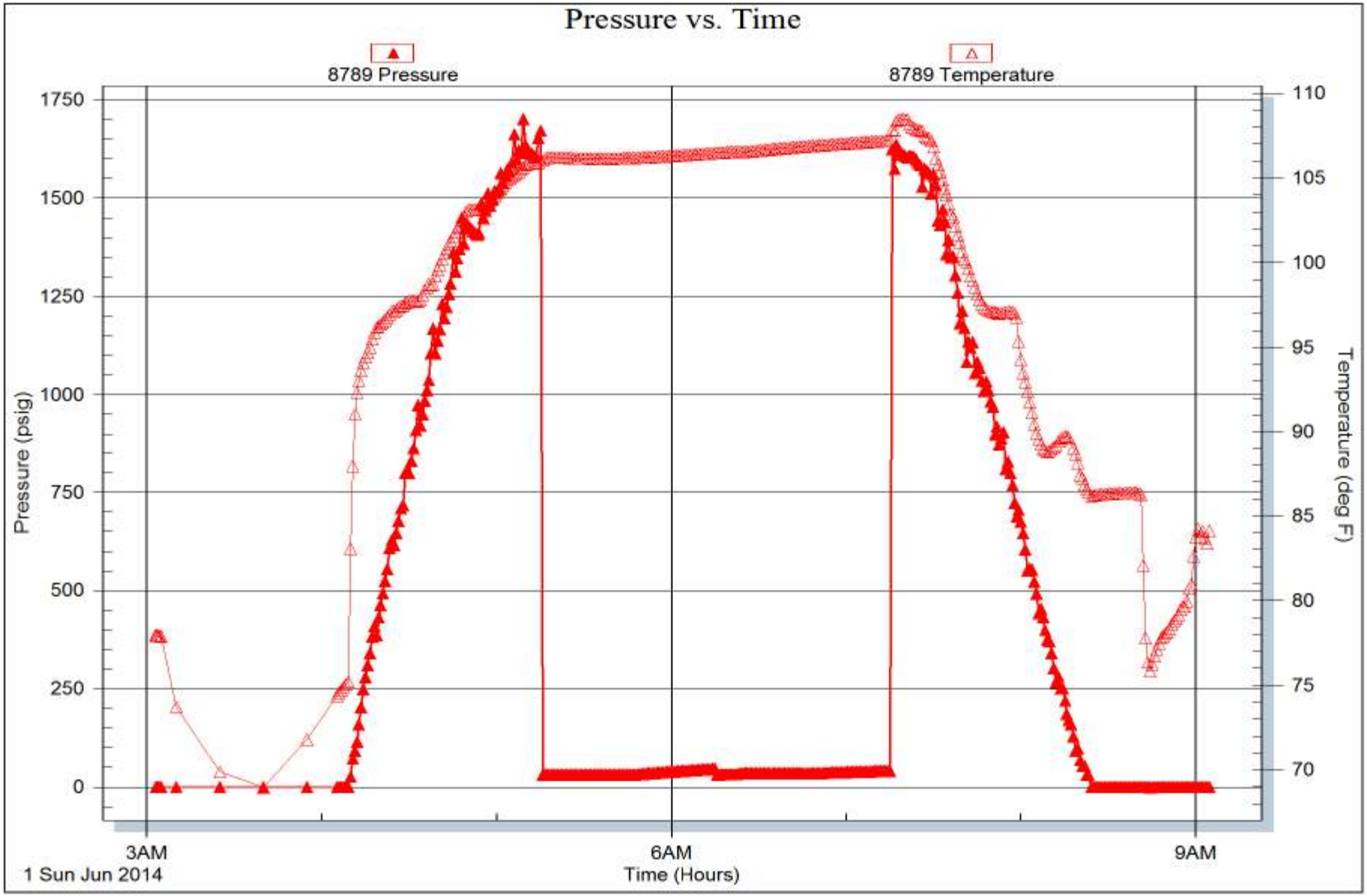
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8289 **Outside** Dow ning-Nelson Oil Co Inc J & A Urban #1-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58875 Printed: 2014.06.02 @ 13:56:24

Serial #: 8789 **Inside** Dow ning-Nelson Oil Co Inc J & A Urban #1-15 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 58875 Printed: 2014.06.02 @ 13:56:24

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

4/10

Test Ticket

NO. 58875

Well Name & No. J+A Urban #1-15 Test No. 1 Date 6-1-14

Company Downing Nelson Oil Co Inc Elevation 2020 KB 2013 GL

Address P.O. Box 1019 Hays KS 67601

Co. Rep / Geo. Marc Downing Rig Discovery #3

Location: Sec. 15 Twp. 16S Rge. 17W Co. Rush State KS

Interval Tested 3432-3497 Zone Tested LKC "A-J"

Anchor Length 65 Drill Pipe Run 3388 Mud Wt. 9

Top Packer Depth 3427 Drill Collars Run 31 Vis 49

Bottom Packer Depth 3432 Wt. Pipe Run ~~0~~ WL 8

Total Depth 3497 Chlorides 5000 ppm System LCM 2

Blow Description IFP- Surface Blow Died in 18 min.
ISIP- No Blow
FFP- No Blow Flushed No Blow
FSIP- No Blow

Rec 40	Feet of MUD	%gas	%oil	%water 100	%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 40 BHT 107 Gravity ____ API RW ____ @ ____ °F Chlorides ____ ppm

(A) Initial Hydrostatic 1679	☒ Test 1150	T-On Location 1:20
(B) First Initial Flow 31	☐ Jars	T-Started 3:03
(C) First Final Flow 32	☐ Safety Joint	T-Open 5:16
(D) Initial Shut-In 46	☐ Circ Sub	T-Pulled 7:16
(E) Second Initial Flow 32	☐ Hourly Standby	T-Out 9:05
(F) Second Final Flow 35	☒ Mileage 48 RT 74.40	Comments
(G) Final Shut-In 42	☐ Sampler	
(H) Final Hydrostatic 1626	☐ Straddle	☐ Ruined Shale Packer
	☐ Shale Packer	☐ Ruined Packer
Initial Open 30	☐ Extra Packer	☐ Extra Copies
Initial Shut-In 30	☐ Extra Recorder	Sub Total 0
Final Flow 30	☐ Day Standby	Total 1224.40
Final Shut-In 30	☐ Accessibility	MP/DST Disc't
	Sub Total 1224.40	

Approved By ____ Our Representative ____

Marc A. Downing Consulting Petroleum Geologist	Geologic Report Drilling Time and Sample Log

Operator	Downing-Nelson Oil Co., Inc.		Elevation	
			KB	2018
Lease	J & A Urban	No. 1-15	DF	2016
			GL	2010
API #	15-165-22071-0000		Casing Record	
			Surface	
Field	Wildcat		Production	8 5/8" @ 1165'
Location	1780' FSL & 2015' FWL		Note	
			Electrical Surveys	
Sec.	15 Twp. 16s	Rge. 17w	CNDL, DIL, MEL, SONIC	
County	Rush	State Kansas		

Formation	Sample tops	Log Tops	Datum	Struct Comp
Top Anhydrite	1151	1154	+864	+5
Base Anhydrite	1194	1192	+826	NA
Topeka	3028	3030	-1012	+3
Heebner	3258	3259	-1241	NA
Toronto	3277	3278	-1260	NA
LKC	3309	3308	-1290	+8
BKC	3534	3533	-1515	NA
Arbuckle	3603	3604	-1586	NA
Total Depth	3660	3661	-1643	

Reference Well For Structural Comparison **Frontier Urban "E" #1** SE-SW Sec. 15-16s-17w

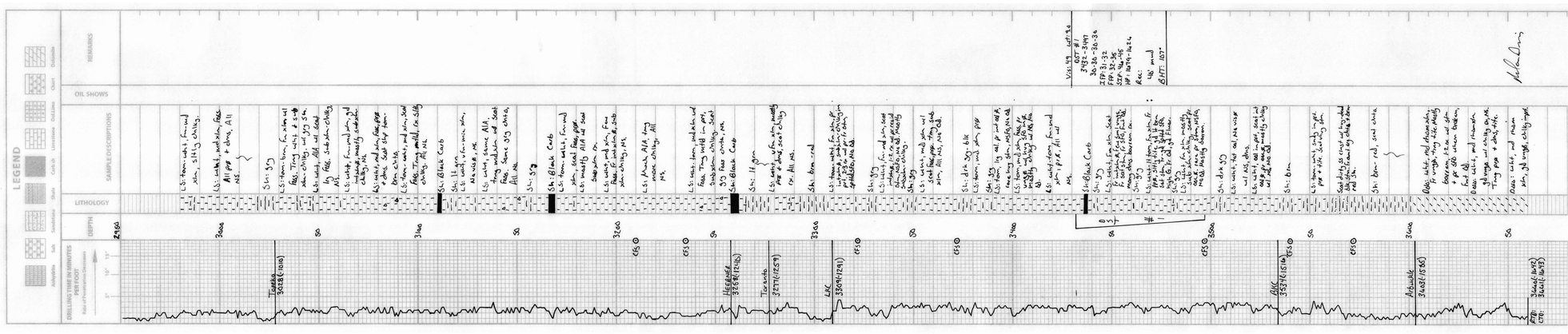
Drilling Contractor		**Discovery Drilling, Rig #3**		
Commenced	5-27-14	Completed		6-1-14
Samples Saved From		2950	To	RTD
Drilling Time Kept From		2950	To	RTD
Samples Examined From		2950	To	RTD
Geological Supervision From		2950	To	RTD

Summary and Recommendations

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

Respectfully Submitted,

Marc A. Downing



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025
Cell 785-324-1041

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

No. 238

Date	Sec.	Twp.	Range	County	State	On Location	Finish
6-2-14	15	16	17	Rush	KS		9:45 AM

Location Liebenthal 6½ E to 310 Rd, ½N, E n 2

Lease J & A Urban | Well No. 1-15

Contractor Discovery #3

Type Job Plug

Hole Size 7⅞ | T.D.

Csg. | Depth

Tbg. Size | Depth

Tool | Depth

Cement Left in Csg. | Shoe Joint

Meas Line | Displace

EQUIPMENT

Pumptrk 17 No. Cementer
Helper Travis

Bulktrk 1 No. Driver
Driver Rysh

Bulktrk Pu No. Driver
Driver Londiew

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

50sx at 3604
50sx at 1200
40sx at 480
20sx at 60

30sx Rat
20sx Mouse

Owner
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.

Charge To Downing Nelson Oil

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 210 sx 60/40 4% gel

Common	126
Poz. Mix	84
Gel.	7
Calcium	
Hulls	
Salt	
Flowseal	50#
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	217
Mileage	

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge plug

Mileage 23

Tax

Discount

Total Charge

X Signature Adam Lueker