



KANSAS CORPORATION COMMISSION 1066358
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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
 Conv. to GSW
 Plug Back: Plug Back Total Depth
 Commingled Permit #:
 Dual Completion Permit #:
 SWD Permit #:
 ENHR Permit #:
 GSW Permit #:

10/10/2011 10/15/2011 10/16/2011
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-165-21943-00-00

Spot Description:
NE NE SE SW Sec. 1 Twp. 18 S. R. 18 East West
1180 Feet from North / South Line of Section
2510 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Rush
Lease Name: Hertel-Thielenhaus Unit Well #: 2-1

Field Name: Wildcat

Producing Formation: None

Elevation: Ground: 2049 Kelly Bushing: 2057

Total Depth: 3897 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 1214 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: 16000 ppm Fluid volume: 320 bbls

Dewatering method used: Evaporated

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

Letter of Confidentiality Received
Date:
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garris Date: 11/10/2011



1066358

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Hertel-Thielenhaus Unit Well #: 2-1
 Sec. 1 Twp. 18 S. R. 18 East West County: Rush

INSTRUCTIONS: Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Top Anhydrite</td> <td>1207'</td> <td>+850</td> </tr> <tr> <td>Base Anhydrite</td> <td>1239'</td> <td>+818</td> </tr> <tr> <td>Heebner</td> <td>3406'</td> <td>-1349</td> </tr> <tr> <td>Toronto</td> <td>3424'</td> <td>-1367</td> </tr> <tr> <td>LKC</td> <td>3462'</td> <td>-1405</td> </tr> <tr> <td>BKC</td> <td>3716'</td> <td>-1659</td> </tr> <tr> <td>Arbuckel</td> <td>3842'</td> <td>-1785</td> </tr> </table>	Name	Top	Datum	Top Anhydrite	1207'	+850	Base Anhydrite	1239'	+818	Heebner	3406'	-1349	Toronto	3424'	-1367	LKC	3462'	-1405	BKC	3716'	-1659	Arbuckel	3842'	-1785
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CASING RECORD <input checked="" 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
Surface Pipe	12.25	8.0625	23	1214	Common	450	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	-			

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: 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: <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> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Hertel-Thielenhaus Unit 2-1
Doc ID	1066358

All Electric Logs Run









Dual Induction
Micro
Sonic
Compensated Neutron / Density

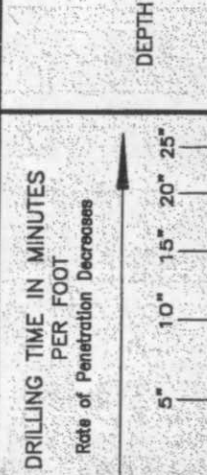
DRILL STEM TESTS

No.	Interval	IFP/Time	ISIP/Time	FFP/Time	FSIP/Time	IHM-FHM	RECOVERY

REMARKS AND RECOMMENDATIONS _____

LEGEND

-  Anhydrite
-  Salt
-  Sandstone
-  Shale
-  Carb. sh.
-  Limestone
-  Ool. Lime
-  Chert
-  Dolomite



LITHOLOGY



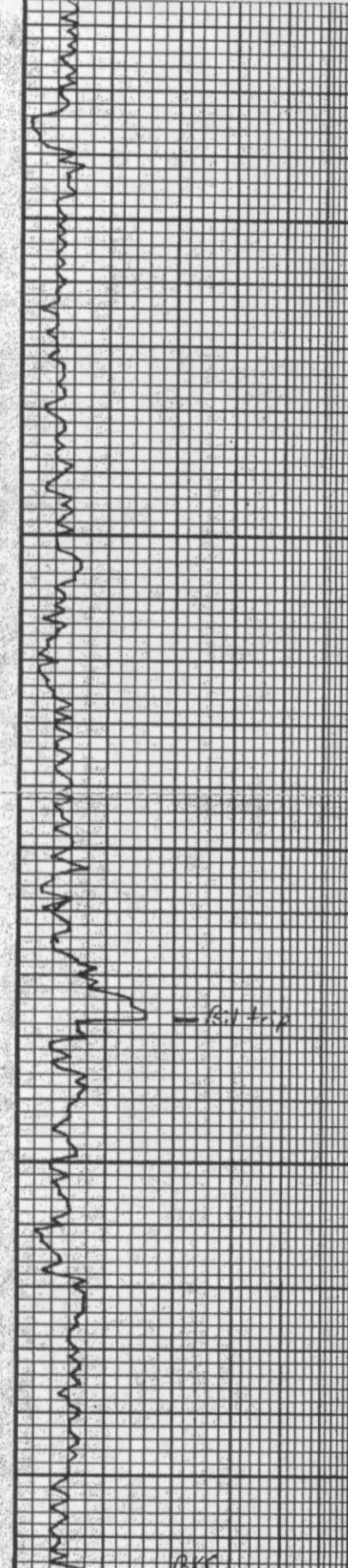
SAMPLE DESCRIPTIONS

OIL SHOWS

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REMARKS

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3500

50

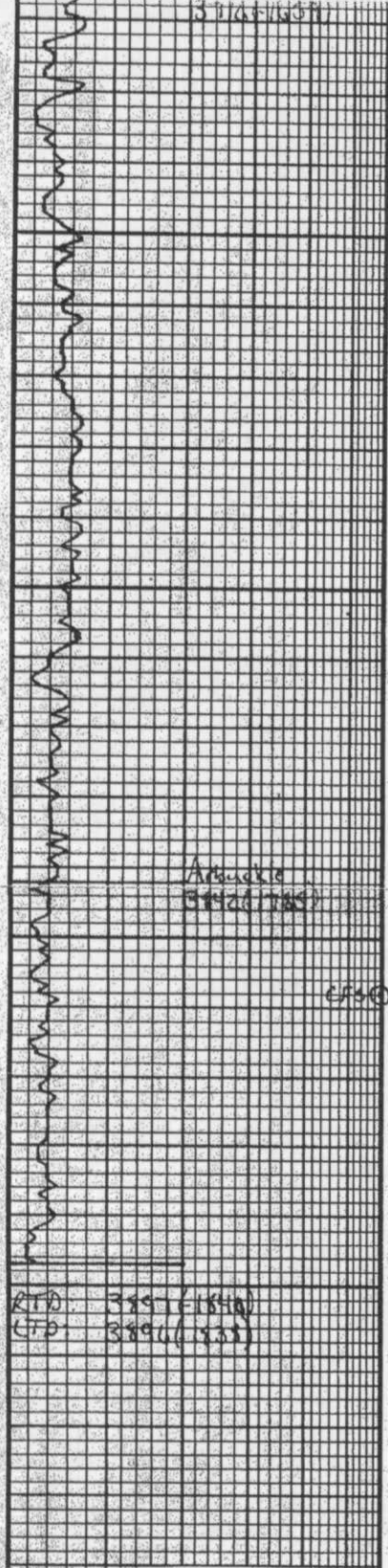
3600

50

3700

sh: qm - Lt. qm - Lt. green
ls: wht fm v. good w/ 1-2 pss Lt. sph. sh - No show oil - No oil - becoming chky w/ depth No show.
sh: qm
ls: wht fm dse, some
v. good pss w/ poor fssd Ns. mostly all v. dse
some oil dolomite towards Base
sh: Black - carb
ls: wht. tan, fm - md xln, pss, chky, in pct
ls: AIA, tan w/ scat fss pss, chs, ns. gfg - wht shp chks.
ls: wht, fr. oolite w/ sub xln - chky ex, Totally barren.
ls: Tan f. v. fm w/ much qm - dse
sh: v. dark qm - Black
ls: wht fm w/ good oolite No show all totally barren
sh: qm - Brown
ls: wht fm, st. col w/ mostly all dse - some chky wht pss w/ scat. qm - Brown sh.
sh: v. dark qm
ls: wht fm v. good oolite No show - all totally barren - becoming v. ool dse
sh: qm - Brown
ls: wht, fm - md xln, mostly chs w/ pss, scat subxln ex, All ns.
sh: drk gfg - blk
ls: wht, fm xln, subxln chky, All barren.

AKK



50

3800

50

CFB

3900

RTD 3891 (1840)
 LTD 3891 (1840)

Sh: lt. gr. gummy.
Sh: sg. AIA Ls: tan wh. fine, chas
Sh: AIA Ls: AIA
Sh: gr Ls: tan, med. chas
Sh: gr ul brn
Ls: wht-cem, fr med xla Ll much org slip chta. Rc mostly chns ul prgs, NS
Sh: gr ul brn, Fr Amt org chta.
Sh: red, argillaceous, washes red
Sh: AIA ul org slip chta.
Oala: wht med-cem rhom xln. Fragd intal, ul scat vngs. Fr Amt red sh. wash slty red. Totally barren.
Oala: wht, med-cem rhom xln. Fragd intal, long vngs. Rc friable, Totally barren, No Od.
Oala: some AIA, frag chns ul less x.
Oala: AIA ul fr amt chky ex, NS.
Mon Jernig

ALLIED CEMENTING CO. LLC. 035822

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

SERVICE POINT:

Russell KS

DATE <i>10-11-11</i>	SEC <i>1</i>	TWP. <i>12</i>	RANGE <i>18</i>	CALLED OUT	ON LOCATION	JOB START <i>10:00am</i>	JOB FINISH <i>10:30pm</i>
LEASE <i>Thigpen</i> WELL # <i>2-1</i>		LOCATION <i>Lacrosse KS / S</i>			COUNTY <i>USA</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)		<i>2 1/2 E N10</i>					

CONTRACTOR *Discovery #3* OWNER _____

TYPE OF JOB *Surface*

HOLE SIZE _____ T.D. *1214* CEMENT AMOUNT ORDERED *450 SK COM*

CASING SIZE *8 5/8* DEPTH *1214* *3 1/2 CC 2 1/2 GEL*

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT *2447*

CEMENT LEFT IN CSG. *2447*

PERFS. _____

DISPLACEMENT *75.75*

EQUIPMENT

PUMP TRUCK CEMENTER *Heath*

109 HELPER *Todd*

BULK TRUCK _____

481 DRIVER *Nick*

BULK TRUCK _____

_____ DRIVER _____

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Run 29 joints 8 5/8 casing & landing it

Est Circulation with mvd pump

Mixed 450 sk and displaced 2000

bit H2O

Plug landed @ 600 psi and shut in

Cement did circulate

Thanks

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

CHARGE TO: *Downing Nelson Oil Co.*

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

To Allied-Cementing Co., 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.

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME *GALEN GASCHER*

SIGNATURE *Galen Gascher*

ALLIED CEMENTING CO., LLC. 037402

REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67663

SERVICE POINT: Geart B...

DATE <u>10-16-11</u>	SEC. <u>1</u>	TWP. <u>18</u>	RANGE <u>18</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
LEASE <u>Hetal</u>	WELL# <u>2-1</u>	LOCATION <u>Palomka 1 south</u>			COUNTY <u>Real</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)				<u>3 east North into</u>			

CONTRACTOR <u>Discovery #3</u>	OWNER <u>Douwing-Nelson Oil</u>
TYPE OF JOB <u>Primary</u>	CEMENT
HOLE SIZE <u>11 7/8</u>	AMOUNT ORDERED <u>2.20 sv 60/40</u>
CASING SIZE	<u>Pos 4 9/16 gel</u>
TUBING SIZE	
DRILL PIPE	
TOOL	
PRES. MAX	
MEAS. LINE	
CEMENT LEFT IN CSG.	
PERFS.	
DISPLACEMENT	

EQUIPMENT

PUMP TRUCK # <u>398</u>	CEMENTER <u>Greg R.</u>
BULK TRUCK # <u>341</u>	HELPER <u>Shane K.</u>
BULK TRUCK #	DRIVER <u>John P.</u>
BULK TRUCK #	DRIVER

REMARKS:

11 5/8 50 sv C 31.3x ft
11 5/8 50 sv C 12.30 ft
11 5/8 50 sv C 540 ft
11 5/8 50 sv C 69 ft
20sv in 1st hole
20sv in house hole

COMMON	@
POZMIX	@
GEL	@
CHLORIDE	@
ASC	@
HANDLING MILEAGE	@

TOTAL _____

SERVICE

DEPTH OF JOB	
PUMP TRUCK CHARGE	
EXTRA FOOTAGE	@
MILEAGE	@
MANIFOLD	@

TOTAL _____

PLUG & FLOAT EQUIPMENT

	@
	@
	@
	@

TOTAL _____

SALES TAX (if Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

CHARGE TO: Douwing-Nelson Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., 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 GALEN GASCHLER
 SIGNATURE Galen Gaschler

Thank You!