



KANSAS CORPORATION COMMISSION 1075105  
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 #: \_\_\_\_\_  
02/01/2012    02/07/2012    02/08/2012  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-145-21656-00-00  
Spot Description: \_\_\_\_\_  
NE SW NE NE Sec. 4 Twp. 20 S. R. 20  East  West  
770 Feet from  North /  South Line of Section  
790 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Pawnee  
Lease Name: Melvin Jennings Well #: 1-4  
Field Name: \_\_\_\_\_  
Producing Formation: None  
Elevation: Ground: 2231 Kelly Bushing: 2239  
Total Depth: 4456 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 521 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: 18000 ppm Fluid volume: 480 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: Downing Nelson Oil Company, Inc.  
Lease Name: Chaddick License #: 30717  
Quarter SE Sec. 31 Twp. 20 S. R. 20  East  West  
County: Pawnee Permit #: D14220

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: Dcanna Gantbor Date: 03/12/2012



1075105

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Melvin Jennings Well #: 1-4  
 Sec. 4 Twp. 20 S. R. 20  East  West County: Pawnee

**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 checked="" type="checkbox"/> Yes <input 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: <b>Attached</b>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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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	8.625	23	521	Common	275	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: <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> _____
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Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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) (Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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# ALLIED CEMENTING CO., LLC. 042402

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

SERVICE POINT:  
Great Bend, KS

DATE <u>2-2-12</u>	SEC. <u>4</u>	TWP. <u>20</u>	RANGE <u>20</u>	CALLED OUT	ON LOCATION	JOB START <u>2:00 AM</u>	JOB FINISH <u>2:30 AM</u>
LEASE <u>Wenning</u>	WELL # <u>1-4</u>	LOCATION <u>Alexander, ks 8 south</u>	COUNTY <u>Burnee</u>	STATE <u>KS</u>			
OLD OR <input checked="" type="radio"/> NEW (Circle one)		<u>1st south into</u>					

CONTRACTOR Discovery Right 4 OWNER Downing - Nelson Oil Co.

TYPE OF JOB Surface

HOLE SIZE <u>12 1/4</u>	T.D. <u>521</u>
CASING SIZE <u>8 5/8</u>	DEPTH <u>521</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15 FT.</u>	
PERFS.	
DISPLACEMENT	

CEMENT  
AMOUNT ORDERED 275 sks Class A  
3% cc 2% gel

COMMON	<u>275</u>	@	<u>16.25</u>	<u>4,468.<sup>25</sup></u>
POZMIX		@		
GEL	<u>5</u>	@	<u>21.25</u>	<u>106.<sup>25</sup></u>
CHLORIDE	<u>CC 10</u>	@	<u>58.20</u>	<u>582.<sup>00</sup></u>
ASC		@		
HANDLING	<u>290</u>	@	<u>2.25</u>	<u>652.<sup>50</sup></u>
MILEAGE	<u>290 x 40 x .11</u>			<u>1276.<sup>00</sup></u>
TOTAL				<u>7085.<sup>50</sup></u>

**EQUIPMENT**

PUMP TRUCK # <u>366</u>	CEMENTER <u>Greg L</u>
	HELPER <u>Dustin C</u>
BULK TRUCK # <u>344/170</u>	DRIVER <u>Jimmy H</u>
BULK TRUCK #	DRIVER

**REMARKS:**

Pipe on bottom break circulation with 2 1/2 inch hook up to cement pump and mix 275 sks Class A 3% cc 2% gel and displace with 32.23 BBL freshwater. Shutting cement did circulate flag down @ 2:30 AM flag down

**SERVICE**

DEPTH OF JOB	<u>521</u>		
PUMP TRUCK CHARGE	<u>Δ - 300</u>		<u>1125.<sup>00</sup></u>
EXTRA FOOTAGE		@	
MILEAGE	<u>Hum 80</u>	@	<u>7.00</u>
MANIFOLD		@	
	<u>Hum 80</u>	@	<u>4.00</u>
TOTAL <u>2005.<sup>00</sup></u>			

CHARGE TO: Downing - Nelson Oil Co.

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

**PLUG & FLOAT EQUIPMENT**

	@	
	@	
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To Allied Cementing Co., LLC.  
You are hereby requested to rent cementing equipment

GENERAL INFORMATION	
NO.	DESCRIPTION
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# ALLIED CEMENTING CO.. LLC. 042428

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

SERVICE POINT:

Great Bend

DATE 2-8-12	SEC. 4	TWP. 20	RANGE 20	CALLED OUT	ON LOCATION	JOB START 7:30am	JOB FINISH 8:30am
LEASE Melvin Jennings		WELL # 1-4		LOCATION <del>1/2</del> S of Alexander 1/2 E		COUNTY Pawnee	STATE KS
OLD OR <u>NEW</u> (Circle one)			S into				

CONTRACTOR Discovery #4

OWNER Downing - Nelson

TYPE OF JOB Rotary Plug

HOLE SIZE ~~8 5/8~~ 7 7/8 T.D. ~~527~~ 4456

CEMENT

AMOUNT ORDERED 220 sacks

CASING SIZE 8 5/8 DEPTH 521

60/40 4% gel

TUBING SIZE DEPTH

DRILL PIPE 4 1/2 DEPTH 1470

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. All

COMMON 135 @ 16.25 2,193.<sup>75</sup>

POZMIX 90 @ 8.50 765.<sup>00</sup>

GEL 5 @ 21.25 106.<sup>25</sup>

PERFS.

CHLORIDE @

DISPLACEMENT Freshwater / Rig Mud

ASC @

**EQUIPMENT**

PUMP TRUCK CEMENTER Shane Konzum

# 366 HELPER Bob Roller

BULK TRUCK

# 482/188 DRIVER Karin W.

BULK TRUCK

# DRIVER

HANDLING 230 @ 2.25 517.<sup>50</sup>

MILEAGE 230 x 40 1012.<sup>00</sup>

TOTAL 4,594.<sup>50</sup>

**REMARKS:**

Arrived on Locations, checked for Safety Hazards,  
Rigged up 1<sup>st</sup> Plug mix 8 bbls, 2<sup>nd</sup> Plug  
mix 8 bbls, 3<sup>rd</sup> Plug mix 8 bbls, 4<sup>th</sup> Plug  
mix 3.19 bbls, Rathole mix 5 bbls, Mouse  
Hole mix 3 bbls, Rig down and leave  
location

**SERVICE**

DEPTH OF JOB 1470

PUMP TRUCK CHARGE 1250.<sup>00</sup>

EXTRA FOOTAGE @

MILEAGE Hum 80 @ 7.00 560.<sup>00</sup>

MANIFOLD @

Hum 80 @ 4.00 320.<sup>00</sup>

TOTAL 2130.<sup>00</sup>

**PLUG & FLOAT EQUIPMENT**

br  
brocken Plug @ 92.00 92.<sup>00</sup>

CHARGE TO: Downing - Nelson

STREET

CITY STATE ZIP

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Melvin Jennings 1-4
Doc ID	1075105

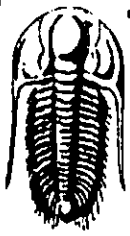
All Electric Logs Run

Micro
Sonic
Dual Induction
Compendsyrf Porosity

Form	ACO1 - Well Completion
Operator	Downing-Nelson Oil Co Inc
Well Name	Melvin Jennings 1-4
Doc ID	1075105

Tops

Top Anhydrite	1421'	+817
Base Anhydrite	1449'	+789
Heebner	3742'	-1504
LKC	3788'	-1550
BKC	4085'	-1847
Fort Scott	4263'	-2025
Cherokee Shale	4276'	-2038
Mississippi	4345'	-2107
Gilmore City	4415'	-2177



**TRILOBITE TESTING, INC.**

## DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co Inc

**4-20s-20w-Pawnee**

Po Box 1019  
Hays Ks 67601

**Melvin Jennings 1-4**

Job Ticket: 46391

**DST#: 1**

ATTN: Ron Nelson

Test Start: 2012.02.07 @ 17:05:38

### GENERAL INFORMATION:

Formation: **Miss**

Deviated: **No** Whipstock: **ft (KB)**

Time Tool Opened: 19:02:08

Time Test Ended: 00:45:38

Test Type: **Conventional Straddle (Initial)**

Tester: **Jeff Brown**

Unit No: **44**

Interval: **4348.00 ft (KB) To 4359.00 ft (KB) (TVD)**

Reference Elevations: **2139.00 ft (KB)**

Total Depth: **4457.00 ft (KB) (TVD)**

**2131.00 ft (CF)**

Hole Diameter: **7.88 inches** Hole Condition: **Good**

KB to GR/CF: **8.00 ft**

**Serial #: 8321**

**Inside**

Press@RunDepth: **145.85 psig @ 4350.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2012.02.07**

End Date: **2012.02.08**

Last Calib.: **2012.02.08**

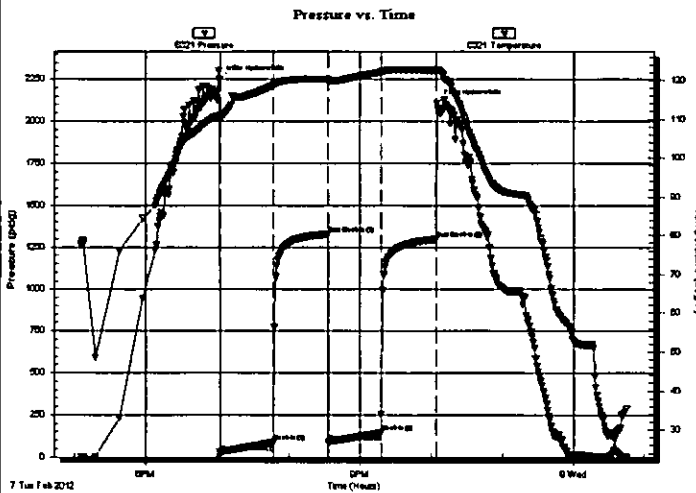
Start Time: **17:05:39**

End Time: **00:45:38**

Time On Btm: **2012.02.07 @ 19:01:38**

Time Off Btm: **2012.02.07 @ 22:05:08**

**TEST COMMENT:** FFP-Good blow BOB in 32 1/2 min  
ISI-Dead no blow back  
FFP-Good blow BOB in 38 min  
FSI-Dead no blow back



### PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2248.07	110.81	Initial Hydro-static
1	29.09	109.58	Open To Flow (1)
46	87.92	118.58	Shut-In(1)
92	1327.44	120.17	End Shut-In(1)
92	91.51	119.73	Open To Flow (2)
136	145.85	122.01	Shut-In(2)
183	1296.88	122.54	End Shut-In(2)
184	2109.71	122.75	Final Hydro-static

### Recovery

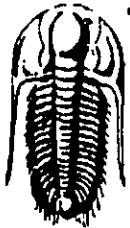
Length (ft)	Description	Volume (bbl)
243.00	MW 10% M90% W	3.13
20.00	WM 20% W80% M	0.28

### Gas Rates

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







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Dow ning-Nelson Oil Co Inc

**4-20s-20w-Pawnee**

Po Box 1019  
Hays Ks 67601

**Melvin Jennings 1-4**

Job Ticket: 46391

DST#: 1

ATTN: Ron Nelson

Test Start: 2012.02.07 @ 17:05:38

### 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: 60.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbf
243.00	MW 10%M90%W	3.126
20.00	WM 20%W80%M	0.281

Total Length: 263.00 ft

Total Volume: 3.407 bbf

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

