



KANSAS CORPORATION COMMISSION 1066348  
 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: Alan Downing  
 Purchaser: Coffeyville Resources

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 (Corr, 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 #: \_\_\_\_\_  

|                                   |                   |   |
|-----------------------------------|-------------------|---|
| <u>10/4/2011</u>                  | <u>10/08/2011</u> | <u>10/09/2011</u>                       |
| Spud Date or<br>Recompletion Date | Date Reached TD   | Completion Date or<br>Recompletion Date |

API No. 15 - 15-065-23776-00-00  
 Spot Description: \_\_\_\_\_  
SE SW SW SW Sec. 23 Twp. 9 S. R. 24  East  West  
100 Feet from  North /  South Line of Section  
335 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
 County: Graham  
 Lease Name: Nickelson-Lloyd Unit Well #: 1-23  
 Field Name: Glen Dale South  
 Producing Formation: LKC  
 Elevation: Ground: 2479 Kelly Bushing: 2487  
 Total Depth: 4100 Plug Back Total Depth: \_\_\_\_\_  
 Amount of Surface Pipe Set and Cemented at: 222 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: 2101 Feet  
 If Alternate II completion, cement circulated from: 2101  
 feet depth to: 0 w/ 190 sx cmt.

**Drilling Fluid Management Plan**  
*(Data must be collected from the Reserve Pit)*  
 Chloride content: 13000 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 Gerrard Date: 02/03/2012



1066348

Operator Name: Downing-Nelson Oil Co Inc Lease Name: Nickelson-Lloyd Unit Well #: 1-23  
 Sec. 23 Twp. 9 S. R. 24  East  West County: Graham

**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<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><br><br>List All E. Logs Run:<br><b>Attached</b> | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br><table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Top Anhydrite</td> <td>2130'</td> <td>+358</td> </tr> <tr> <td>Base Anhydrite</td> <td>2164'</td> <td>+324</td> </tr> <tr> <td>Topeka</td> <td>3570'</td> <td>-1082</td> </tr> <tr> <td>Heebner</td> <td>3784'</td> <td>-1296</td> </tr> <tr> <td>Toronto</td> <td>3808'</td> <td>-1320</td> </tr> <tr> <td>Lansing</td> <td>3825'</td> <td>-1337</td> </tr> <tr> <td>BKC</td> <td>4050'</td> <td>-1562</td> </tr> </table> | Name  | Top | Datum | Top Anhydrite | 2130' | +358 | Base Anhydrite | 2164' | +324 | Topeka | 3570' | -1082 | Heebner | 3784' | -1296 | Toronto | 3808' | -1320 | Lansing | 3825' | -1337 | BKC | 4050' | -1562 |
| Name  | Top   | Datum |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Top Anhydrite   | 2130'   | +358  |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Base Anhydrite  | 2164'   | +324  |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Topeka  | 3570'   | -1082 |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Heebner   | 3784'   | -1296 |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Toronto   | 3808'   | -1320 |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| Lansing   | 3825'   | -1337 |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |
| BKC   | 4050'   | -1562 |     |       |               |       |      |                |       |      |        |       |       |         |       |       |         |       |       |         |       |       |     |       |       |

| 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                | 222           | Common         | 150          | 2% Gel & 3% CC             |
| Production String   | 7.8750            | 5.5                       | 14                | 4101          | EA/2           | 150          |                            |
|   |                   |                           |                   |               |                |              |                            |

| 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<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth          |
|----------------|---|--|----------------|
| 4              | 3980' to 3986'  | 250 gallons 15% Mud Acid   | 3980' to 3986' |
|                |   |  |                |
|                |   |  |                |
|                |   |  |                |

|   |                        |   |                         |
|---|------------------------|---|-------------------------|
| TUBING RECORD: Size: <u>2.3750</u> Set At: <u>4039</u> Packer At: _____ |                        | Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  |                         |
| Date of First, Resumed Production, SWD or ENHR.<br><u>11/14/2011</u>    |                        | Producing Method:<br><input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |                         |
| Estimated Production Per 24 Hours                                       | Oil Bbls.<br><u>15</u> | Gas Mcf<br><u>0</u>   | Water Bbls.<br><u>0</u> |
| Gas-Oil Ratio   |                        | Gravity   |                         |

|   |   |  |
|---|---|--|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<br><input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL:<br>_____<br>_____ |
|---|---|--|

|           |                           |
|-----------|---------------------------|
| Form      | ACO1 - Well Completion    |
| Operator  | Downing-Nelson Oil Co Inc |
| Well Name | Nickelson-Lloyd Unit 1-23 |
| Doc ID    | 1066348                   |

All Electric Logs Run

|                               |
|-------------------------------|
|                               |
| Sonic                         |
| Micro                         |
| Dual Induction                |
| Compensated Neutron / Density |

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 5215

|                     |                           |      |            |          |           |       |      |  |  |       |    |             |  |        |           |
|---------------------|---------------------------|------|------------|----------|-----------|-------|------|--|--|-------|----|-------------|--|--------|-----------|
| Date                | 10/4/11                   | Sec. | 23         | Twp.     | 9         | Range | 24   | County   | Graham   | State | KS | On Location |  | Finish | 6:00 P.M. |
| Lease               | Nickelson - Lloyd         |      |            | Well No. | Unit 1-23 |       |      | Location   | Wakeeney, IN to Red line Rd, 6 W, 1 N, E + N   |       |    |             |  |        |           |
| Contractor          | Discovery Drilling Rig #1 |      |            |          |           |       |      | Owner  | To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |       |    |             |  |        |           |
| Type Job            | Surface                   |      |            |          |           |       |      | Charge To  | Downing + Nelson Oil Co, Inc.  |       |    |             |  |        |           |
| Hole Size           | 12 1/4"                   |      | T.D.       | 221'     |           | Depth | 221' |  |  |       |    |             |  |        |           |
| Csg.                | 8 5/8"                    |      | Depth      | 221'     |           |       |      |  |  |       |    |             |  |        |           |
| Tbg. Size           |                           |      | Depth      |          |           |       |      |  |  |       |    |             |  |        |           |
| Tool                |                           |      | Depth      |          |           |       |      |  |  |       |    |             |  |        |           |
| Cement Left in Csg. | 15'                       |      | Shoe Joint |          |           |       |      | The above was done to satisfaction and supervision of owner agent or contractor. |  |       |    |             |  |        |           |
| Meas Line           |                           |      | Displace   | 13 Bbls  |           |       |      | Cement Amount Ordered 150 rx Cons 2% CC 2% gel                                   |  |       |    |             |  |        |           |

### EQUIPMENT

|                        |    |     |          |      |          |     |
|------------------------|----|-----|----------|------|----------|-----|
| Pumptrk                | 9  | No. | Cementer | Paul | Common   | 150 |
|                        |    |     | Helper   |      |          |     |
| Bulktrk                | 14 | No. | Driver   | Matt | Poz. Mix |     |
|                        |    |     | Driver   |      |          |     |
| Bulktrk                | PU | No. | Driver   | Doug | Gel.     | 3   |
|                        |    |     | Driver   |      |          |     |
| JOB SERVICES & REMARKS |    |     |          |      | Calcium  | 5   |

|                    |                         |
|--------------------|-------------------------|
| Remarks:           | Hulls                   |
| Rat Hole           | Salt                    |
| Mouse Hole         | Flowseal                |
| Centralizers       | Kol-Seal                |
| Baskets            | Mud CLR 48              |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |
| Est Circ.          | Sand                    |
| Mix 150 rx         | Handling 138            |
| Displace           | Mileage                 |
| Cement Circulated  |                         |

### FLOAT EQUIPMENT

|             |  |
|-------------|--|
| Guide Shoe  |  |
| Centralizer |  |
| Baskets     |  |
| AFU Inserts |  |
| Float Shoe  |  |
| Latch Down  |  |

Thank You!

|                |         |
|----------------|---------|
| Pumptrk Charge | Surface |
| Mileage        | 48      |

|             |             |              |  |
|-------------|-------------|--------------|--|
| X Signature | [Signature] | Tax          |  |
|             |             | Discount     |  |
|             |             | Total Charge |  |

JOB LOG

SWIFT Services, Inc.

DATE 10-9-11 PAGE NO.

CUSTOMER *Dunning & Nelson* WELL NO. *#1-23* LEASE *Nicholson Lloyd* JOB TYPE *2-stage* TICKET NO. *20190*

| CHART NO.   | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |            | DESCRIPTION OF OPERATION AND MATERIALS                        |
|---|------|------------|--------------------|-------|---|----------------|------------|---|
|   |      |            |                    | T     | C | TUBING         | CASING     |   |
|   | 1900 |            |                    |       |   |                |            | on loc w/ FE  |
|   |      |            |                    |       |   |                |            | RTD 4100'   |
|   |      |            |                    |       |   |                |            | 5 1/2" x 1 1/8" x 4101' x 21'                                 |
|   |      |            |                    |       |   |                |            | cent 1, 3, 5, 8, 10, 12, 14, 48                               |
|   |      |            |                    |       |   |                |            | Base 49   |
|   |      |            |                    |       |   |                |            | DV Tool 49 @ 2101'  |
|   |      |            |                    |       |   |                |            | its out #6, 90  |
|   | 1905 |            |                    |       |   |                |            | start FE  |
|   | 2040 |            |                    |       |   |                |            | Break Circ-   |
|   | 2125 | 4.5        | 0                  |       |   |                | 200        | start PreFlashes <sup>50 gal Mud Flush</sup> 20 bbl KCL Flush |
|   | 2135 | 5.5        | 32/0               |       |   |                | 250        | start EA < 2 Cement (50 sks)                                  |
|   | 2142 |            | 36                 |       |   |                |            | End Cement  |
|   |      |            |                    |       |   |                |            | Wash P/L  |
|   |      |            |                    |       |   |                |            | Drop & D Plug   |
|   | 2146 | 6.5        | 0                  |       |   |                | 200        | start Displacement 50 bbl wt                                  |
|   | 2157 | 5          | 71                 |       |   |                | 250        | Catch Cement 48 bbl mud                                       |
|   | 2203 |            | 99.5               |       |   |                | 650 / 1400 | Load Plug   |
|   |      |            |                    |       |   |                |            | Release pressure / Float Hold                                 |
|   | 2205 |            |                    |       |   |                |            | Drop Opening Plug <sup>SMD</sup>                              |
|   | 2210 | 2.5        | 71.5               |       |   |                | 1100       | Plug KH + ALT 30/20 Open DV                                   |
|   | 2220 | 4.5        | 0                  |       |   |                | 200        | start KCL Flush   |
|   | 2225 | 5.5        | 20/0               |       |   |                | 300        | start SMD Cement  |
|   | 2241 |            | 105                |       |   |                |            | End Cement  |
|   |      |            |                    |       |   |                |            | Drop Closing Plug   |
|   | 2243 | 5.5        | 0                  |       |   |                | 150        | start Displacement  |
|   | 2247 | 4          | 24                 |       |   |                | 250        | Circ Cement   |
|   | 2255 |            | 51                 |       |   |                | 450 / 1500 | Load Plug   |
|   |      |            |                    |       |   |                |            | Close DV  |
|   |      |            |                    |       |   |                |            | Release pressure / DV Closed                                  |
| <p>circ 50 sks tapit</p> <p><i>Nick, Josh, &amp; David</i></p>    |      |            |                    |       |   |                |            |   |
| <p>Thank you</p> <p><i>Nick, Josh F., Braden, &amp; David</i></p> |      |            |                    |       |   |                |            |   |

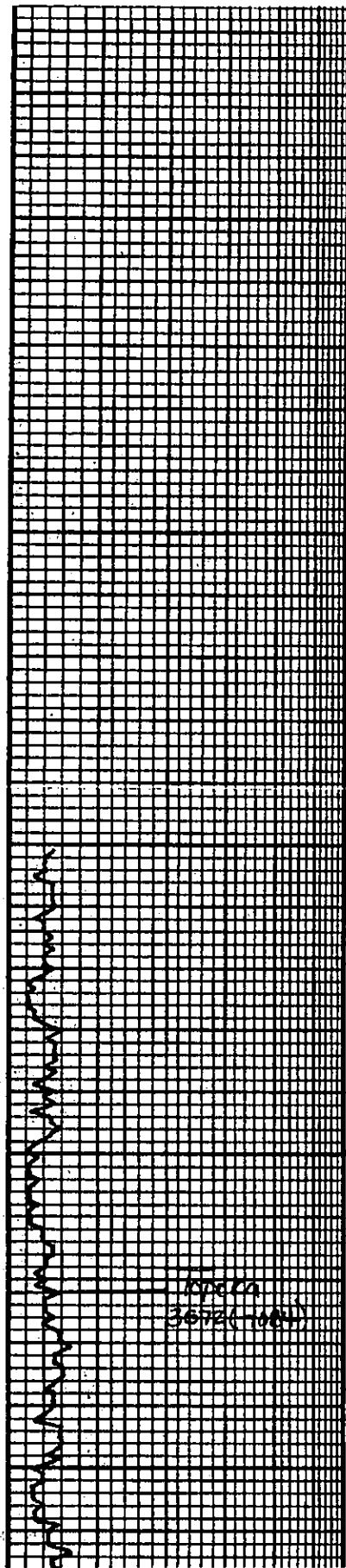


| DRILL STEM TESTS |          |         |         |         |         |       |         |
|------------------|----------|---------|---------|---------|---------|-------|---------|
| No.              | Interval | FP/Time | SP/Time | FP/Time | SP/Time | SP-FM | REMARKS |
|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |
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|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |
|                  |          |         |         |         |         |       |         |

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

| DRILLING TIME IN MINUTES<br>PER FOOT<br>Rate of Penetration Decreases<br>5" 10" 15" 20" 25" |  | DEPTH | LITHOLOGY | SAMPLE DESCRIPTIONS | OIL SHOWS | REMARKS |
|---|--|-------|-----------|---------------------|-----------|---------|
|   |  |       |           |                     |           |         |
|   |  |       |           |                     |           |         |
|   |  |       |           |                     |           |         |
|   |  |       |           |                     |           |         |
|   |  |       |           |                     |           |         |

NELS01-8

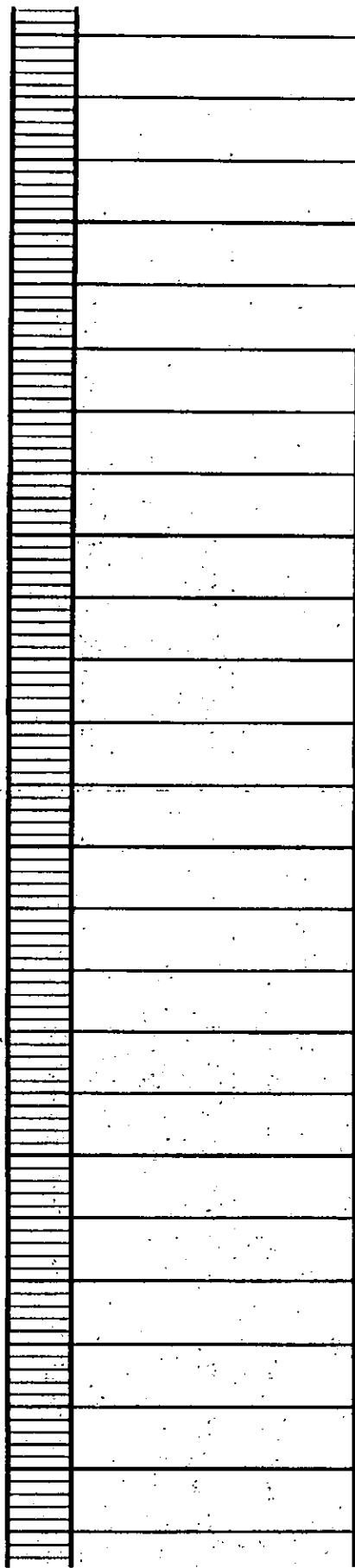


3500

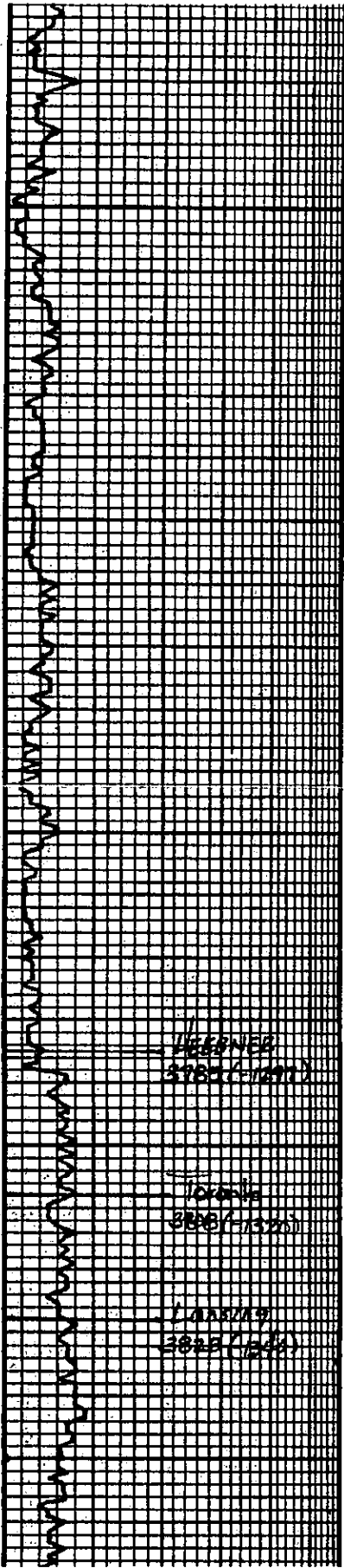
50

3600

3572 (100)







50

3700

60

3800

50

3782 (1982)

3828 (1982)

3828 (1982)

sh. Black - tan  
ls. int. d. v. am. v. d. s. e.

sh. gray - tan

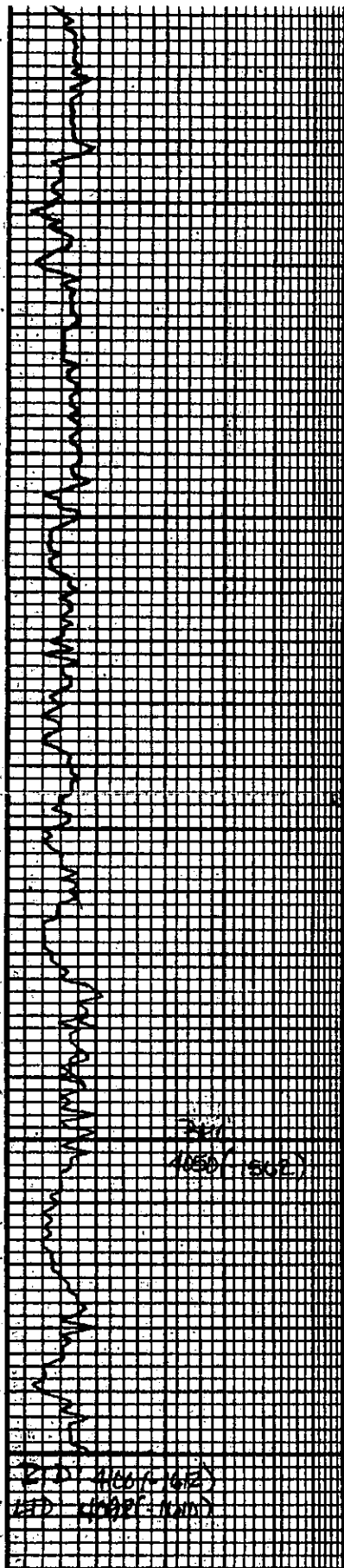
ls. int. tan. Abs. w. good  
intrusion - lots of weathered con.  
Acet. - No show.

sh. Red. v. avg.  
ls. int. - fine int. v. am  
v. d. s. e.

ls. int. v. am. fines tan  
off int. & f. d.

sh. v. dark gray

ls. Tan. Fin. Had intrusion  
v. am. d. s. e. fine int. & tan  
sh.  
ls. int. tan. v. am. d. s. e. & int.

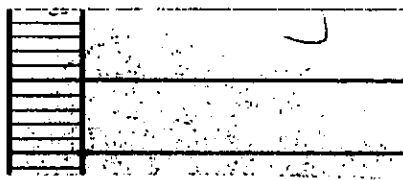
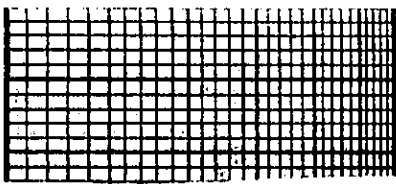


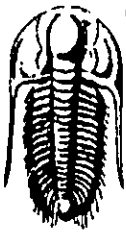
|      |   |
|------|---|
|      | <p>LS: Tan fm Wood Vug d +<br/>interior of vug set stn strong odor<br/>Vug set SFO - V. d. stone ft<br/>Lg amt Acet</p> <p>sn: qm</p> <p>LS: Wht. Dm - Nb d<br/>all dse bakly lpt</p>   |
| 3900 |   |
|      | <p>sn: Black- covr</p> <p>sn: qm- Brown</p> <p>LS: Wht. fm Wood Vug d +<br/>interior of vug set stn v. ft.<br/>odor mostly all tr</p> <p>sn: qm</p> <p>LS: Wht. fm Wood Vug d +<br/>interior of vug set stn v. ft.<br/>Bn set stn - v. strong odor</p> <p>sn: qm- Brown</p>     |
| 50   |   |
|      | <p>LS: Wht. fm vug set, acat pass. fr<br/>interior of vug set stn, spotted<br/>SFO, H. fr. ad.</p> <p>sh: gry - ul brn</p> <p>LS: Wht. cal. Fr acat cal<br/>Scat gd SFO imp. Fr Amt<br/>Barron ex, H. ad.</p> <p>sh: gry</p> <p>LS: Wht. - term. Fin med<br/>Xh, prs ul ns.</p> |
| 4000 |   |
|      | <p>sn: qm- Red Browns<br/>green</p> <p>LS: Wht. L. subvln<br/>dse</p> <p>sn: Reddish Brn</p> <p>LS: Wht. fm sll. od. dse</p>  |
| 50   |   |
|      | <p>sn: qm- Red Browns<br/>green</p> <p>LS: Wht. L. subvln<br/>dse</p> <p>sn: Reddish Brn</p> <p>LS: Wht. fm sll. od. dse</p>  |
| 4100 |   |
|      | <p>sn: qm- Red Browns<br/>green</p> <p>LS: Wht. L. subvln<br/>dse</p> <p>sn: Reddish Brn</p> <p>LS: Wht. fm sll. od. dse</p>  |

V's 56  
Wt 8.6  
W 8.8  
Lm 2#

DST #1  
3967-3995  
45-45-45-45  
Rec:  
540' 91P  
125' 9054 at  
IHP: 2036#  
IFP: 48-52#  
FAP: 50-65#  
SIP: 270-2108#  
AIP: 1862#

D  
S  
T  
#  
1





**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co., Inc.

23/9S/24W-Graham

P.O. Box 1019  
Hays, KS 67601

Nickelson-Lloyd Unit

Job Ticket: 45258

DST#: 1

ATTN: Al Dow ning

Test Start: 2011.10.08 @ 12:58:15

## GENERAL INFORMATION:

Formation: LKC "I"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:50:25

Time Test Ended: 19:36:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Rash

Unit No: 38

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

Total Depth: 3995.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Poor

Reference Elevations: 2487.00 ft (KB)

2479.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8354

Inside

Press@RunDepth: 65.14 psig @ 3969.00 ft (KB)

Start Date: 2011.10.08

End Date:

2011.10.08

Start Time: 13:08:15

End Time:

19:36:15

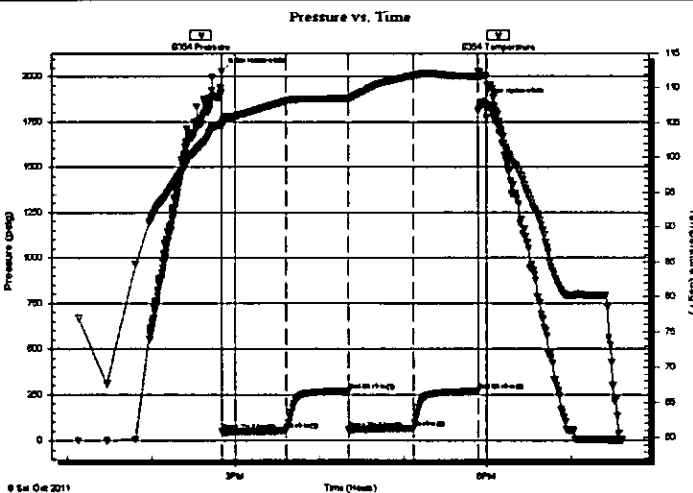
Capacity: 8000.00 psig

Last Calib.: 2011.10.08

Time On Btm: 2011.10.08 @ 14:50:05

Time Off Btm: 2011.10.08 @ 17:55:15

TEST COMMENT: IF-Fair building blow . BOB in 20 minutes 30 seconds.  
IS-Very weak surface return @ 4 minutes. Died @ 9 minutes.  
FF-Fair building blow . BOB in 21 minutes.  
FS-Very weak surface return @ 6 minutes. Died @ 12 minutes.



## PRESSURE SUMMARY

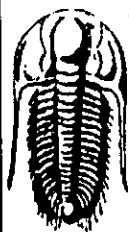
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2029.77         | 104.82       | Initial Hydro-static |
| 1           | 48.29           | 104.47       | Open To Flow (1)     |
| 46          | 51.99           | 108.13       | Shut-in(1)           |
| 91          | 269.67          | 108.50       | End Shut-in(1)       |
| 91          | 55.60           | 108.44       | Open To Flow (2)     |
| 137         | 65.14           | 111.78       | Shut-in(2)           |
| 184         | 268.41          | 111.62       | End Shut-in(2)       |
| 186         | 1861.97         | 111.65       | Final Hydro-static   |

## Recovery

| Length (ft) | Description             | Volume (bbl) |
|-------------|-------------------------|--------------|
| 125.00      | 10% Gas/50% Oil/40% Mud | 1.48         |
| 0.00        | 540' G.I.P.             | 0.00         |
|             |                         |              |
|             |                         |              |
|             |                         |              |

## 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.

**23/9S/24W-Graham**

P.O. Box 1019  
Hays, KS 67601

**Nickelson-Lloyd Unit**

Job Ticket: 45258      **DST#: 1**

ATTN: Al Dow ning

Test Start: 2011.10.08 @ 12:58:15

### 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: 85.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 125.00       | 10%Gas/50%Oil/40%Mud | 1.480         |
| 0.00         | 540' G.I.P.          | 0.000         |

Total Length: 125.00 ft      Total Volume: 1.480 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

