



KANSAS CORPORATION COMMISSION 1060016
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: Ron Nelson
Purchaser: Coffeyville Resouces

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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 #: _____
04/28/2011 05/04/2011 05/05/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-195-22708-00-00
Spot Description: _____
SE SE NE SE Sec. 25 Twp. 13 S. R. 21 East West
• 1375 Feet from North / South Line of Section
75 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Trego
Lease Name: RBL Unit Well #: 1-25
Field Name: Schneller
Producing Formation: LKC & Marmaton
Elevation: Ground: 2304 Kelly Bushing: 2311
Total Depth: 4053 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: 1640 Feet
If Alternate II completion, cement circulated from: 1640
feet depth to: 0 w/ 155 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 Garcia Date: 07/25/2011



1060016

Operator Name: Downing-Nelson Oil Co Inc Lease Name: RBL Unit Well #: 1-25
 Sec. 25 Twp. 13 S. R. 21 East West County: Trego

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: Attached | <input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum Attached Attached Attached |
|---|--|

| 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 | 222 | Common | 150 | 2% Gel & 3%CC |
| Production String | 7.875 | 5.50 | 14 | 4051.47 | 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 Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|----------------|
| 4 | 3775' to 3777', 3778' to 3784' & 3785' to 3787' | 500 gal. 15% Mud Acid | 3775' to 3787' |
| 4 | 3665' to 3673' | 250 gal. 15% Mud Acid | 3665' to 3673' |
| | | | |
| | | | |

| | | |
|--|---|--|
| TUBING RECORD: Size: <u>2.3750</u> Set At: <u>3957.86</u> Packer At: _____ | | Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Date of First, Resumed Production, SWD or ENHR. <u>05/31/2011</u> | | Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____ |
| Estimated Production Per 24 Hours | Oil Bbls. <u>18</u> Gas Mcf <u>0</u> Water Bbls. <u>100</u> | Gas-Oil Ratio _____ Gravity <u>34</u> |

| | | |
|---|--|--|
| 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 checked="" 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: _____ _____ |
|---|--|--|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Downing-Nelson Oil Co Inc |
| Well Name | RBL Unit 1-25 |
| Doc ID | 1060016 |

All Electric Logs Run

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

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Downing-Nelson Oil Co Inc |
| Well Name | RBL Unit 1-25 |
| Doc ID | 1060016 |

Tops

| | | |
|----------------|------|-------|
| Top Anhydrite | 1646 | +665 |
| Base | 1688 | +623 |
| Topeka | 3324 | -1013 |
| Heebner | 3556 | -1245 |
| LKC | 3593 | -1282 |
| BKC | 3845 | -1534 |
| Marmaton | 3907 | -1598 |
| Cherokee Shale | 3943 | -1632 |
| Arbuckle | 3956 | -1645 |

ALLIED CEMENTING CO., LLC. 039601

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

SERVICE POINT:
Russell

| | | | | | | | |
|------------------------------------|--------------------|-----------------------------------|-----------------|--------------|---------------------|------------------------|-------------------------|
| DATE <u>9/28/6</u> | SEC. <u>25</u> | TWP. <u>13</u> | RANGE <u>21</u> | CALLED OUT | ON LOCATION | JOB START <u>6:00p</u> | JOB FINISH <u>6:30p</u> |
| LEASE <u>RBC Unit</u> | WELL # <u>1-25</u> | LOCATION <u>Ellis 15 24 1/2 S</u> | | | COUNTY <u>Ellis</u> | STATE <u>Ks.</u> | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | | <u>Winto</u> | | <u>Tres.</u> | |

CONTRACTOR Discovery Rig #3
 TYPE OF JOB Surface Job
 HOLE SIZE 12 1/4 T.D. 223
 CASING SIZE 8 7/8 DEPTH 222.45
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 15
 PERFS. _____
 DISPLACEMENT 13.21 661

OWNER _____
 CEMENT AMOUNT ORDERED 150 Co-3 + 2
 COMMON 150 @ 16.25 2437.50
 POZMIX _____ @ _____
 GEL 3 @ 21.25 63.75
 CHLORIDE 5 @ 58.20 291.00
 ASC _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 HANDLING 158 @ 2.25 355.50
 MILEAGE 115 1/2 hrs 521.40
 TOTAL 3669.15

EQUIPMENT

PUMP TRUCK CEMENTER Shane Healt
 # 409 HELPER Tony
 BULK TRUCK
 # 372 DRIVER Ron
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Ran 5 hrs + Landing Jt.
First Circulation:
Mixed 150 sks
Cement Circulated

CHARGE TO: Downing Nelson
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1125.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 60 @ 7.00 420.00
 MANIFOLD _____ @ _____
LVN 60 @ 4.00 240.00
 _____ @ _____
 TOTAL 1785.00

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____
 @ _____

Thanks!

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or

JOB LOG

SWIFT Services, Inc.

DATE 5 MAY 11 PAGE NO. 1

CUSTOMER DOWSINO & NELSON

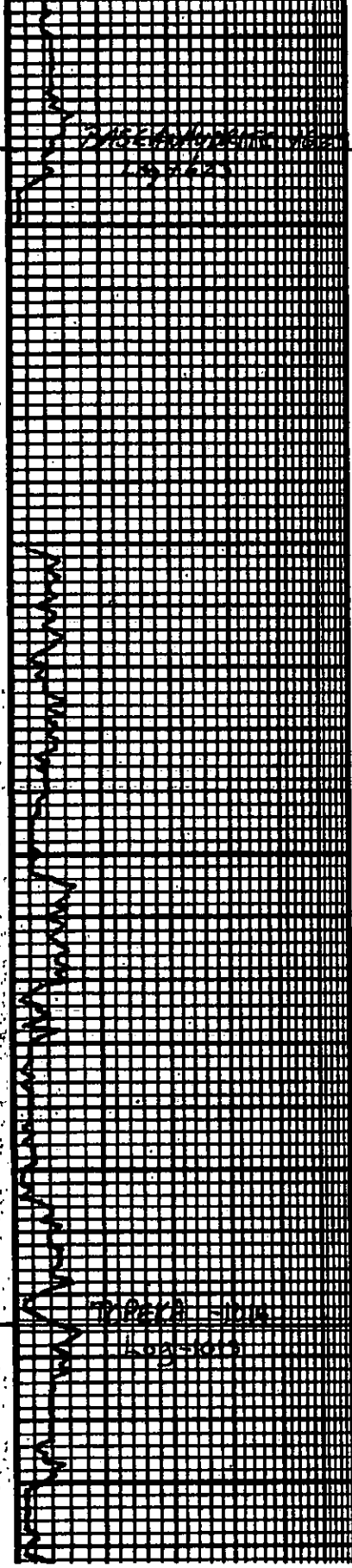
WELL NO.

LEASE RBL WIT 1-25

JOB TYPE 5 1/2 LONGSTRING

TICKET NO. 20784

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 1420 | | | | | | | ON LOCATION |
| | 1505 | | | | | | | START PIPE 5 1/2" 14" RTD @ 4053 LT D @ 4054 SHOE JT 42.43' DV TOOL ON JT. # 57 @ 1640 CENTRALIZERS # 1, 3, 5, 7, 9, 11, 56 BASKET # 57 |
| | 1641 | | | | | | | DROP BALL CIRCULATE. |
| | 1703 | 6 | 12 | | | | 300 | Pump 500 gal MUD FLUSH |
| | 1705 | 6 | 20 | | | | 300 | Pump 20 BBL KCL FLUSH |
| | 1708 | 4 | 36 | | | | 300 | MIX 15D SX FA2 |
| | 1721 | | | | | | | WASH OUT PUMPING LINES |
| | 1723 | 6 | | | | | | RELEASE PLUG START DISPLACEMENT |
| | 1740 | | 99 | | | | 1500 | PLUG DOWN PRESSURE UP LATCH PLUG IN |
| | 1742 | | | | | | | RELEASE PRESSURE DRY |
| | 1743 | | | | | | | DROP BOMB |
| | 1752 | | | | | | 1200 | OPEN DV TOOL |
| | 1752 | 6 | 20 | | | | 300 | Pump 20 BBL KCL FLUSH |
| | 1755 | | 7.3 1/2 | | | | | PLUG RH/MA (30SX-15SX) |
| | 1800 | 4 | 86 | | | | 200 | MIX 155 SX SMD |
| | 1826 | | | | | | | WASH OUT PUMPING LINES. |
| | 1828 | 6 | | | | | | RELEASE PLUG START DISPLACEMENT |
| | 1836 | 8 | 40 | | | | 1500 | PLUG DOWN PRESSURE UP CLOSE DV TOOL |
| | 1839 | | | | | | | RELEASE PRESSURE - DRY |
| | 1842 | | | | | | | CIRCULATE 20 SX CEMENT TO SURFACE WASH TRUCK |
| | 1915 | | | | | | | JOB COMPLETE THANKS # 110 JASON JEFF ROB. |



TOBECA - 100
Log 100

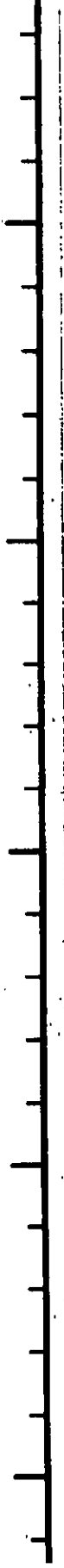
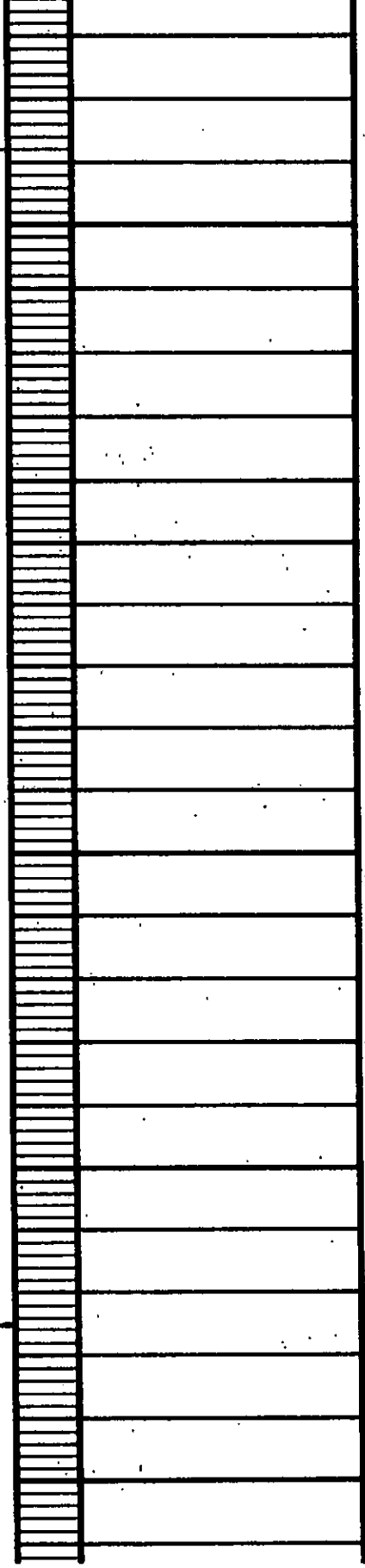
1700

3200

50

3300

50



120' 3" Blow
 2nd 3 1/4" Blow
 No 3. T. Blow
 IFF 14-42
 FFP 46-58
 SIP 500-444
 HP 1748-1784
 Rec 6' 0" m m 80' 2"
 30' 0" m m
 DST 42
 3649'-3670'
 30' 45" 30' 45"
 120' 808 3"
 125' 818 16"
 2nd 818 8"
 2nd 818 8"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

50

3700

50

3800

50

5th 2 1/2 ggy
 Ls tan, fine sand, l-2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

Ls wh, tan, v. fine mic. w/ls
 some pr. silt

Bk & 2 ggy silt

Ls tan, fine sand, w/ 1/2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

Ls tan, silt, chky, fossiliferous
 125' 818 16"
 2nd 818 8"
 2nd 818 8"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

chky, tan, silt, l-2 chky

Ls wh, tan, fine sand, v. fine
 v. fine mic. w/ls
 w/ chky, tan, silt, l-2 chky
 all NS

5th 2 1/2 ggy silt

Ls tan, fine sand, w/ 1/2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

30' 0" m m

chky, tan, silt, l-2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

DST 42
 3649'-3670'
 30' 45" 30' 45"
 120' 808 3"
 125' 818 16"
 2nd 818 8"
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 IFF 36-159
 FFP 165-241
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 60' 6 WOCM
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5th 2 1/2 ggy silt

Ls tan, fine sand, w/ 1/2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

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chky, tan, silt, l-2 chky
 of the top of the bed
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DST 42
 3649'-3670'
 30' 45" 30' 45"
 120' 808 3"
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 2nd 818 8"
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 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

5th 2 1/2 ggy silt

Ls tan, fine sand, w/ 1/2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

30' 0" m m

chky, tan, silt, l-2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

DST 42
 3649'-3670'
 30' 45" 30' 45"
 120' 808 3"
 125' 818 16"
 2nd 818 8"
 2nd 818 8"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

5th 2 1/2 ggy silt

Ls tan, fine sand, w/ 1/2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

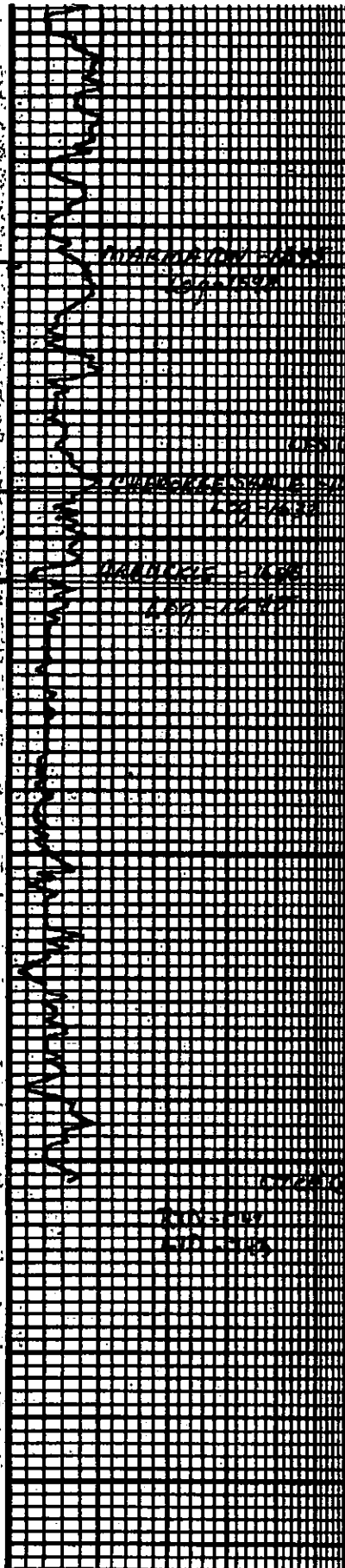
30' 0" m m

chky, tan, silt, l-2 chky
 of the top of the bed
 90' of the bed
 5m right barrow

DST 42
 3649'-3670'
 30' 45" 30' 45"
 120' 808 3"
 125' 818 16"
 2nd 818 8"
 2nd 818 8"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

45' 45" 45' 45"
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 2nd 818 8"
 2nd 818 8"
 IFF 36-159
 FFP 165-241
 SIP 380-379
 HP 1789-1834
 Rec 930' 61P
 150' 6.0.
 60' 6 WOCM
 120' 0 MCM
 180' 0 M
 BHT 119' Grav. 410

DST 3
 3765-3792
 45' 45" 45' 45"
 120' 808 17"
 2nd 808 14"
 No 3. T. Blow
 IFF 16-40
 FFP 42-42
 SIP 509-506
 HP 1898-1806
 Rec 434' 61P
 120' 0 GCM
 BHT 1140



3900

32

50

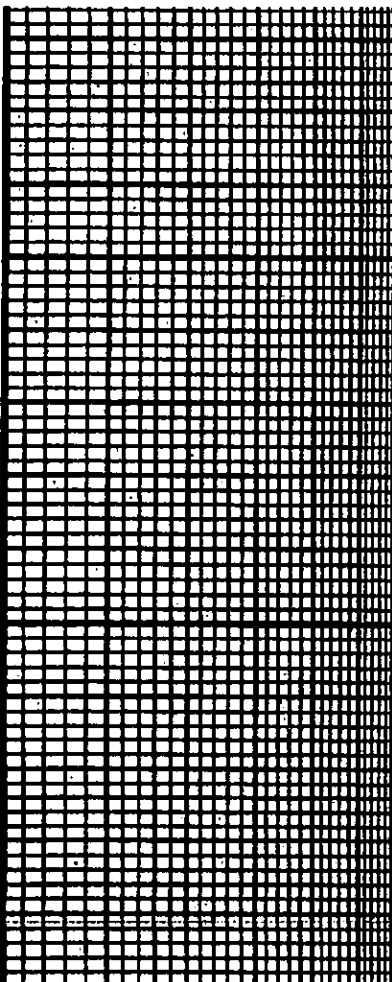
4000

50

4100

| |
|--|
| SH RO SK |
| orange chf 2 DUSTAN MIC by 1/2 CS, too soft loss |
| DUSTAN - WALS SM RQ/BA merly LS ALLAS |
| VANUS... DUSTAN... edge SM, gassy white broken frag DNS barren chf |
| SH BICKERS SH GRAY BRICKS |
| SS... frag DNS - mod DNS no cherty w/ fr. w/ sp. on side frag broken |
| DOLO... DUSTAN DOLO |
| DOLO... frag DNS w/ pr B gossorous wh - ggy doco frag DNS DOLO Ben - Hgy mod DNS DOLO ALLAS |
| Ron Nelson |

DST #4
3910'-3935'
30° 45' 30" 45"
12' op B0554
12' 1/2 1/2"
2nd op 10" Blow
NO 5I Blow
IFP 30-49
FFP 72-88
SIP 497-257
HP 1944-1880
Rec 275' OZP
185' 60
30' 00cm
BHT 177' 60m 37'
pachna pulled loose 2
BHP invalid on 1st SJ



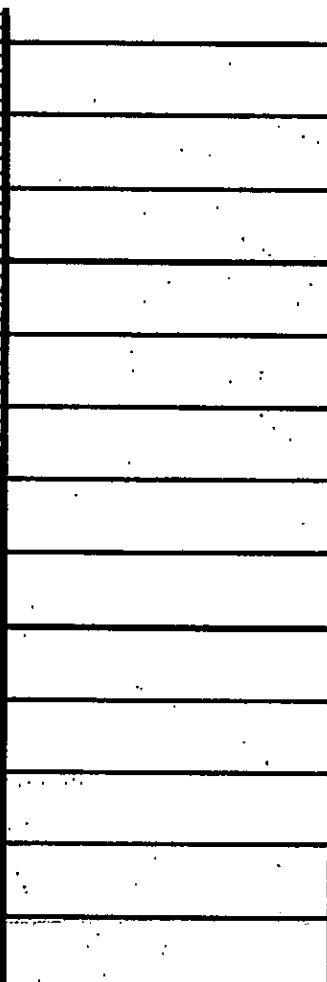
0" 10" 15" 20" 25"
 DRILLING TIME Minutes/Foot
 Rate of Penetration Decreases →



DEPTH



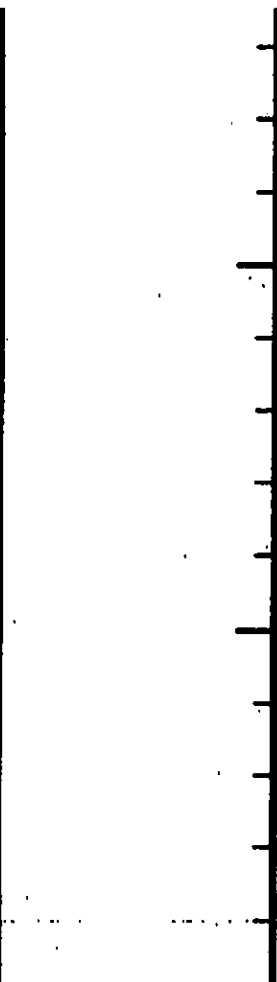
LITHOLOGY



SAMPLE DESCRIPTIONS

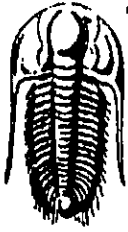


SANDS TO



REMARKS

| | |
|---|--|
| CONTRACTOR <u>Discovery Drilling Rig #3</u> | LOCATION <u>1325' E 1/4 75' E 1/4</u> |
| LEASE <u>RBL Unit # 1-25</u> IP <u>LKC</u> | SEC <u>25</u> TWP <u>13S</u> RANG <u>21W</u> |
| ELEVATION <u>2311' KB</u> RTD <u>4063'</u> | COUNTY <u>TREGO</u> STATE <u>KANSAS</u> |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Downing-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

ATTN: Ron Nelson

Job Ticket: 42798 DST#: 1

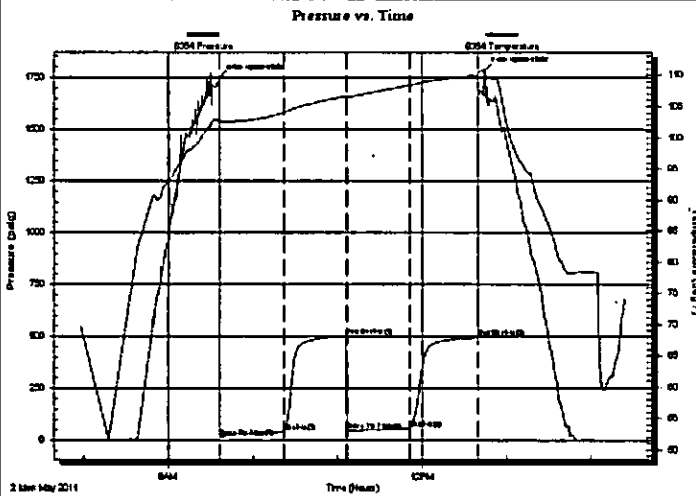
Test Start: 2011.05.02 @ 07:48:15

GENERAL INFORMATION:

Formation: **LKC**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 09:36:05
 Time Test Ended: 14:24:15
 Interval: **3606.00 ft (KB) To 3645.00 ft (KB) (TVD)**
 Total Depth: **3645.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole**
 Tester: **Dustin Rash**
 Unit No: **38**
 Reference Elevations: **2311.00 ft (KB)**
2304.00 ft (CF)
 KB to GR/CF: **7.00 ft**

Serial #: 8354 **Inside**
 Press@RunDepth: **57.71 psig @ 3608.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2011.05.02** End Date: **2011.05.02** Last Calib.: **2011.05.02**
 Start Time: **07:58:15** End Time: **14:24:15** Time On Btm: **2011.05.02 @ 09:35:55**
 Time Off Btm: **2011.05.02 @ 12:44:15**

TEST COMMENT: IF-Weak building blow . Built to 3&1/4 inches.
 IS-No Return.
 FF-Weak building blow . Built to 3&1/4 inches.
 FS-No Return.



PRESSURE SUMMARY

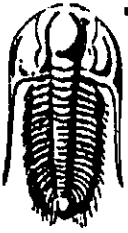
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1748.19 | 102.85 | Initial Hydro-static |
| 1 | 14.29 | 102.26 | Open To Flow (1) |
| 46 | 42.04 | 104.02 | Shut-In(1) |
| 90 | 499.65 | 106.62 | End Shut-In(1) |
| 91 | 46.22 | 106.48 | Open To Flow (2) |
| 136 | 57.71 | 108.36 | Shut-In(2) |
| 184 | 493.90 | 109.99 | End Shut-In(2) |
| 189 | 1783.76 | 110.37 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 60.00 | 50% Mud/45% Water/5% Oil | 0.56 |
| 30.00 | 75% Mud/20% Water/5% Oil | 0.42 |
| 6.00 | 80% Oil/15% Mud/5% Water | 0.08 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42798

DST#: 1

ATTN: Ron Nelson

Test Start: 2011.05.02 @ 07:48:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

42 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

52500 ppm

Viscosity: 82.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: 0.12 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------------|---------------|
| 60.00 | 50%Mud/45%Water/5%Oil | 0.559 |
| 30.00 | 75%Mud/20%Water/5%Oil | 0.421 |
| 6.00 | 80%Oil/15%Mud/5%Water | 0.084 |

Total Length: 96.00 ft

Total Volume: 1.064 bbl

Num Fluid Samples: 0

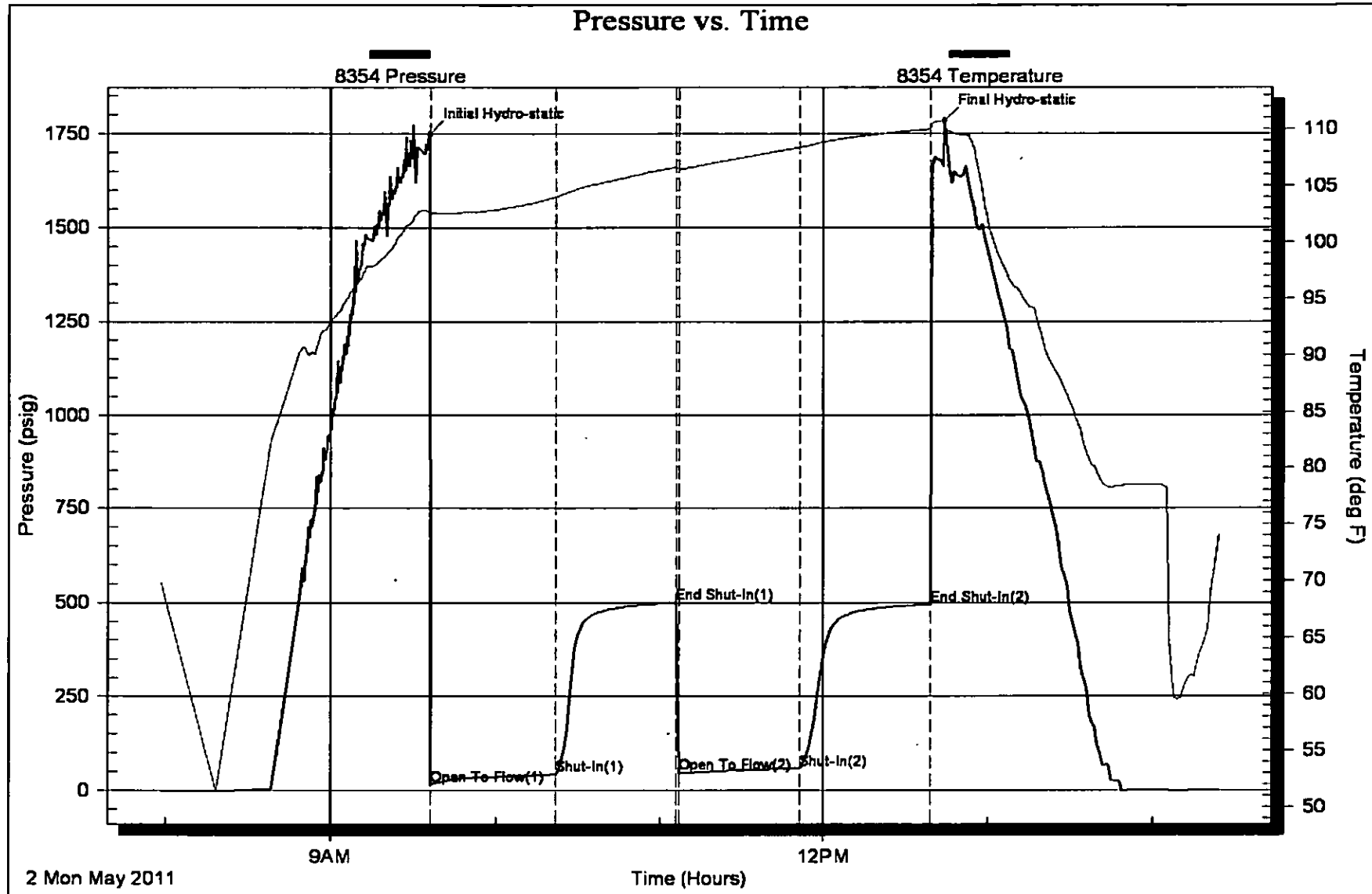
Num Gas Bombs: 0

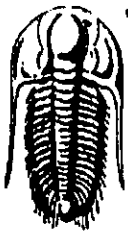
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42799

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.05.02 @ 20:05:08

GENERAL INFORMATION:

Formation: **LKC E**

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

Time Tool Opened: 21:46:28

Time Test Ended: 02:50:08

Test Type: **Conventional Bottom Hole**

Tester: **Dustin Rash**

Unit No: **38**

Interval: **3649.00 ft (KB) To 3670.00 ft (KB) (TVD)**

Reference Elevations: **2311.00 ft (KB)**

Total Depth: **3670.00 ft (KB) (TVD)**

2304.00 ft (CF)

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

KB to GR/CF: **7.00 ft**

Serial #: 8354 **Inside**

Press@RunDepth: **241.06 psig @ 3651.00 ft (KB)**

Capacity: **8000.00 psig**

Start Date: **2011.05.02**

End Date:

2011.05.03

Last Calib.: **2011.05.03**

Start Time: **20:15:08**

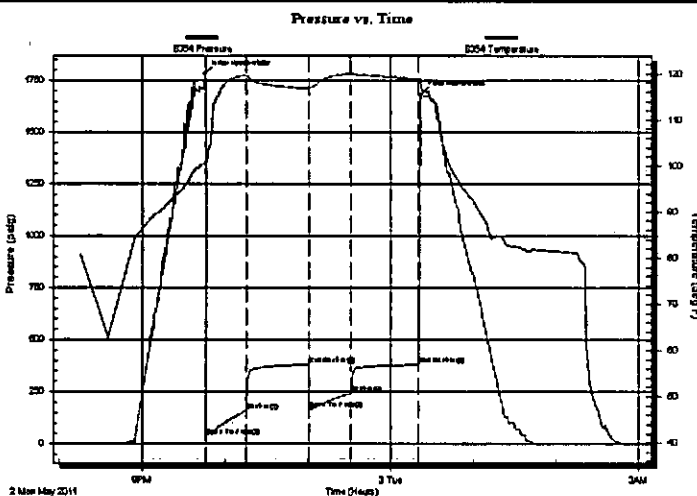
End Time:

02:50:08

Time On Btm: **2011.05.02 @ 21:45:18**

Time Off Btm: **2011.05.03 @ 00:22:08**

TEST COMMENT: IF-Strong building blow . BOB in 2 minutes 40 seconds.
IS-Return @ 15 seconds . BOB in 16 minutes.
FF-Fair building blow . BOB in 8 minutes.
FSI-Return @ 15 seconds . BOB in 24 minutes.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1782.97 | 100.38 | Initial Hydro-static |
| 2 | 36.46 | 100.00 | Open To Flow (1) |
| 31 | 158.75 | 119.58 | Shut-In(1) |
| 76 | 379.87 | 116.86 | End Shut-In(1) |
| 76 | 164.87 | 116.77 | Open To Flow (2) |
| 106 | 241.06 | 119.96 | Shut-In(2) |
| 156 | 379.08 | 118.85 | End Shut-In(2) |
| 157 | 1683.58 | 116.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------------|--------------|
| 180.00 | 90%/Water/10%Mud | 2.24 |
| 120.00 | 65%Water/30%Mud/5%Oil | 1.68 |
| 60.00 | 50%Mud/20%Water/20%Gas/10%Oil | 0.84 |
| 150.00 | 60%Oil/40%Gas | 2.10 |
| 0.00 | 930' 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.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42799

DST#: 2

ATTN: Ron Nelson

Test Start: 2011.05.02 @ 20:05:08

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 50.00 sec/qt
Water Loss: 8.78 in³
Resistivity: 0.11 ohm.m
Salinity: 3000.00 ppm
Filter Cake: inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 41 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------------|---------------|
| 180.00 | 90%Water/10%Mud | 2.243 |
| 120.00 | 65%Water/30%Mud/5%Oil | 1.683 |
| 60.00 | 50%Mud/20%Water/20%Gas/10%Oil | 0.842 |
| 150.00 | 60%Oil/40%Gas | 2.104 |
| 0.00 | 930' G.I.P. | 0.000 |

Total Length: 510.00 ft Total Volume: 6.872 bbl

Num Fluid Samples: 0

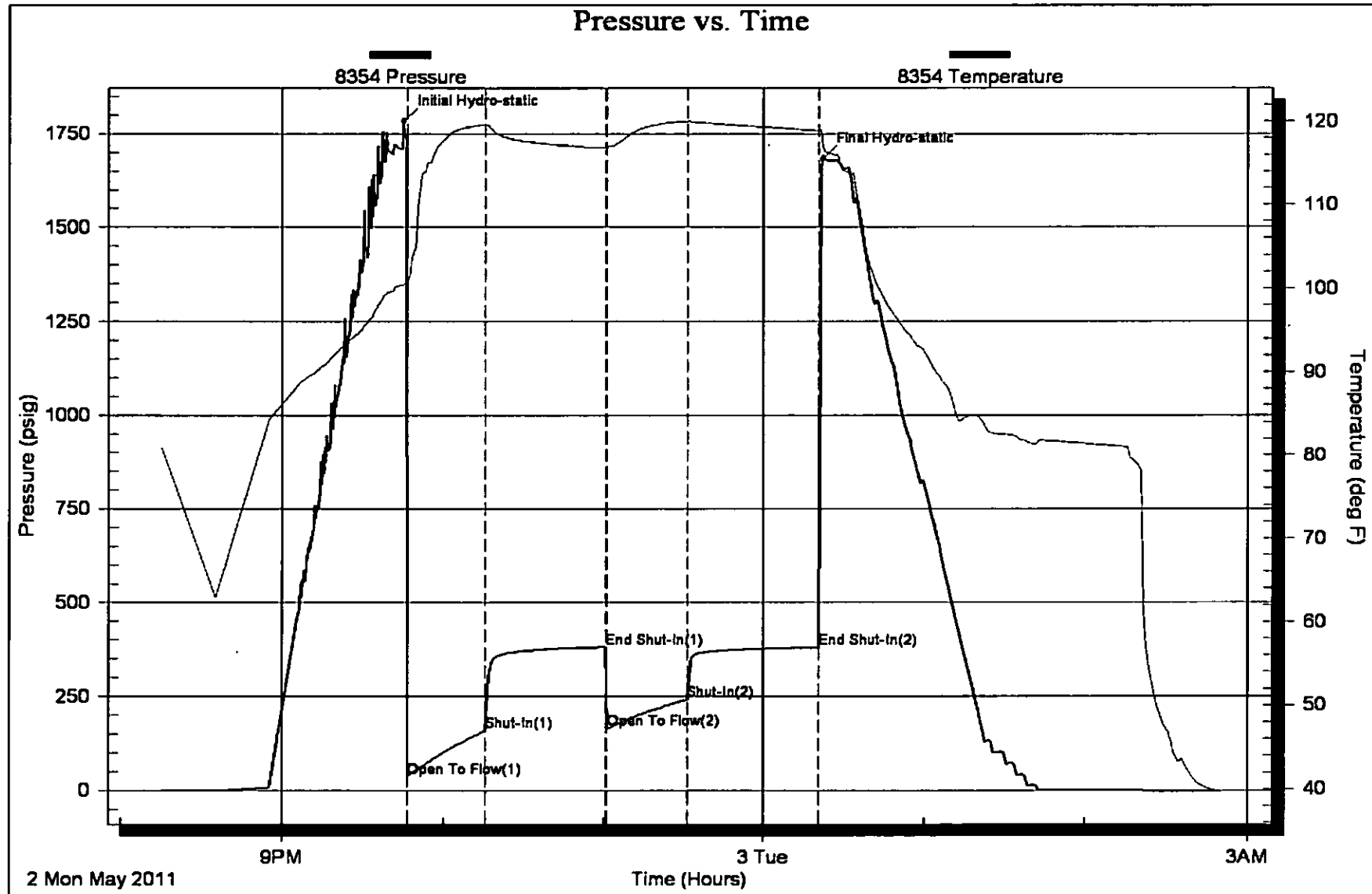
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays,Ks 67601

25/13S/21W-Trego

ATTN: Ron Nelson

Job Ticket: 42800

DST#: 3

Test Start: 2011.05.03 @ 13:42:06

GENERAL INFORMATION:

Formation: **LKC J**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:24:36

Time Test Ended: 20:12:06

Test Type: Conventional Bottom Hole

Tester: Dustin Rash

Unit No: 38

Interval: **3765.00 ft (KB) To 3792.00 ft (KB) (TVD)**

Total Depth: **3792.00 ft (KB) (TVD)**

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2311.00 ft (KB)

2304.00 ft (CF)

KB to GR/CF: 7.00 ft

Serial #: 8354

Inside

Press@RunDepth: 61.80 psig @ 3767.00 ft (KB)

Start Date: 2011.05.03

End Date: 2011.05.03

Start Time: 13:52:06

End Time: 20:12:06

Capacity: 8000.00 psig

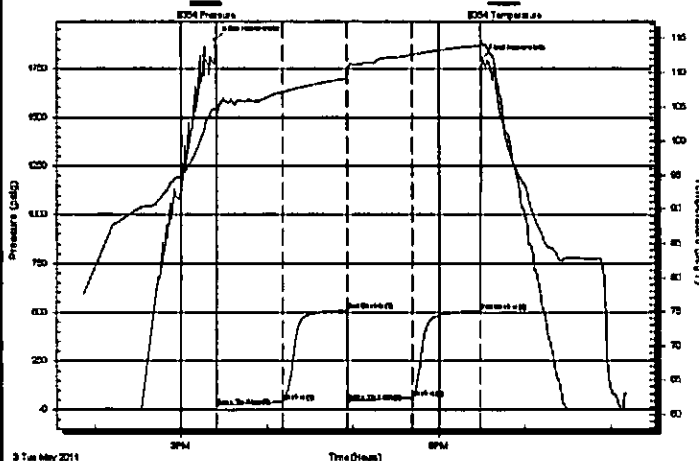
Last Calib.: 2011.05.03

Time On Btr: 2011.05.03 @ 15:23:46

Time Off Btr: 2011.05.03 @ 18:30:06

TEST COMMENT: IF-Weak building blow . BOB in 17 minutes.
IS-No Return.
FF-Weak building blow . BOB in 13 minutes 40 seconds.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

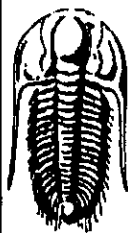
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1897.77 | 104.60 | Initial Hydro-static |
| 1 | 16.40 | 103.78 | Open To Flow (1) |
| 47 | 40.35 | 107.14 | Shut-In(1) |
| 92 | 508.88 | 109.12 | End Shut-In(1) |
| 93 | 42.22 | 110.29 | Open To Flow (2) |
| 138 | 61.80 | 112.66 | Shut-In(2) |
| 186 | 505.60 | 113.95 | End Shut-In(2) |
| 187 | 1805.73 | 114.27 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------------------|--------------|
| 120.00 | 50% Gas/35% Oil/10% Mud/5% Water | 1.40 |
| 0.00 | 434' G.I.P. | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (Inches) | Pressure (psig) | Gas Rate (Mc/d) |
|--|----------------|-----------------|-----------------|
| | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42800

DST#: 3

ATTN: Ron Nelson

Test Start: 2011.05.03 @ 13:42:06

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: 50.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 8.78 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------------------|---------------|
| 120.00 | 50% Gas/35% Oil/10% Mud/5% Water | 1.401 |
| 0.00 | 434' G.I.P. | 0.000 |

Total Length: 120.00 ft Total Volume: 1.401 bbl

Num Fluid Samples: 0

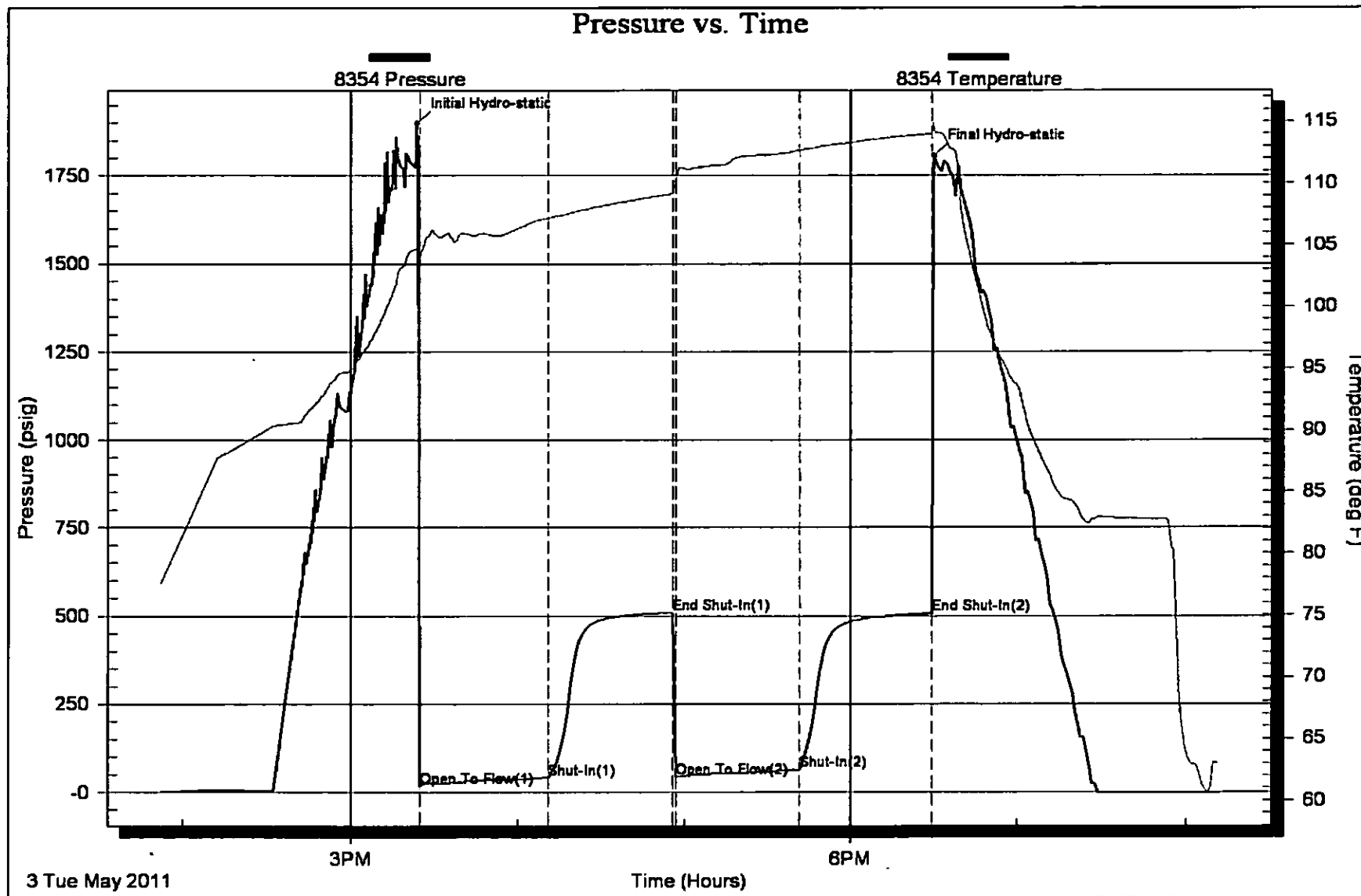
Num Gas Bombs: 0

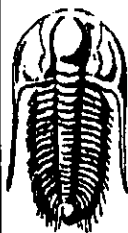
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dowling-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42876

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.05.04 @ 10:54:15

GENERAL INFORMATION:

Formation: **LKC**

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

Time Tool Opened: 12:33:55

Time Test Ended: 17:00:45

Test Type: **Conventional Bottom Hole**

Tester: **Dustin Rash**

Unit No: **38**

Interval: **3910.00 ft (KB) To 3935.00 ft (KB) (TVD)**

Total Depth: **3935.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Poor**

Reference Elevations: **2311.00 ft (KB)**

2304.00 ft (CF)

KB to GR/CF: **7.00 ft**

Serial #: 8354

Inside

Press@RunDepth: **87.69 psig @ 3912.00 ft (KB)**

Start Date: **2011.05.04**

End Date: **2011.05.04**

Start Time: **11:04:15**

End Time: **17:00:45**

Capacity: **8000.00 psig**

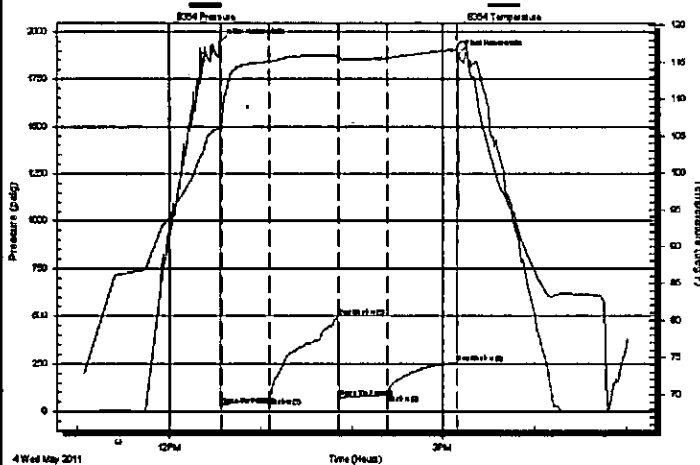
Last Calib.: **2011.05.04**

Time On Btm: **2011.05.04 @ 12:33:45**

Time Off Btm: **2011.05.04 @ 15:10:15**

TEST COMMENT: IF-Strong building blow . BOB in 4 minutes 40 seconds.
IS- Surging surface return @ 45 seconds. Built to 1/4 inch.
FF-Weak building blow . Built to 10 inches.
FSI-No Return.

Pressure vs. Time



PRESSURE SUMMARY

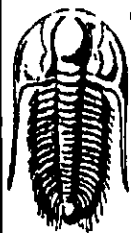
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1943.61 | 106.23 | Initial Hydro-static |
| 1 | 29.81 | 105.16 | Open To Flow (1) |
| 32 | 69.48 | 115.05 | Shut-In(1) |
| 77 | 497.37 | 115.93 | End Shut-In(1) |
| 78 | 72.05 | 115.60 | Open To Flow (2) |
| 110 | 87.69 | 115.57 | Shut-In(2) |
| 156 | 256.56 | 116.70 | End Shut-In(2) |
| 157 | 1880.38 | 117.59 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 30.00 | 40% Oil/40% Mud/20% Gas | 0.15 |
| 185.00 | 50% Oil/50% Gas | 2.59 |
| 0.00 | 275' G.I.P. | 0.00 |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Downing-Nelson Oil Co.

RBL Unit #1-25

P.O. Box 1019
Hays, Ks 67601

25/13S/21W-Trego

Job Ticket: 42876

DST#: 4

ATTN: Ron Nelson

Test Start: 2011.05.04 @ 10:54:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 51.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.58 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-------------------------|----------------|
| 30.00 | 40% Oil/40% Mud/20% Gas | 0.148 |
| 185.00 | 50% Oil/50% Gas | 2.586 |
| 0.00 | 275' G.I.P. | 0.000 |

Total Length: 215.00 ft

Total Volume: 2.734 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

