



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

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: _____ Date: _____



Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum |
|---|---|

| CASING RECORD <input 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 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| 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 |
|----------------|---|--|-------|
| | | | |
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| | | | |

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: _____ _____ |
|---|---|--|

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Downing-Nelson Oil Co Inc |
| Well Name | Norris 1-6 |
| Doc ID | 1123874 |

Tops

| Name | Top | Datum |
|----------------|-------|-------|
| Top Anhydrite | 1377' | +835 |
| Base Anhydrite | 1402' | +810 |
| Heebner | 3730' | -1518 |
| LKC | 3780' | -1568 |
| BKC | 4104' | -1892 |
| Fort Scott | 4285 | -2073 |
| Cherokee Shale | 4305' | -2093 |
| Mississippi | 4362' | -2150 |
| Osage | 4383' | -2171 |



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Norris #1-6

6-21s-20w Pawnee,KS

Start Date: 2013.03.01 @ 22:16:00

End Date: 2013.03.02 @ 05:39:00

Job Ticket #: 52031 DST #: 1

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

Printed: 2013.03.08 @ 13:34:54



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52031

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.03.01 @ 22:16:00

GENERAL INFORMATION:

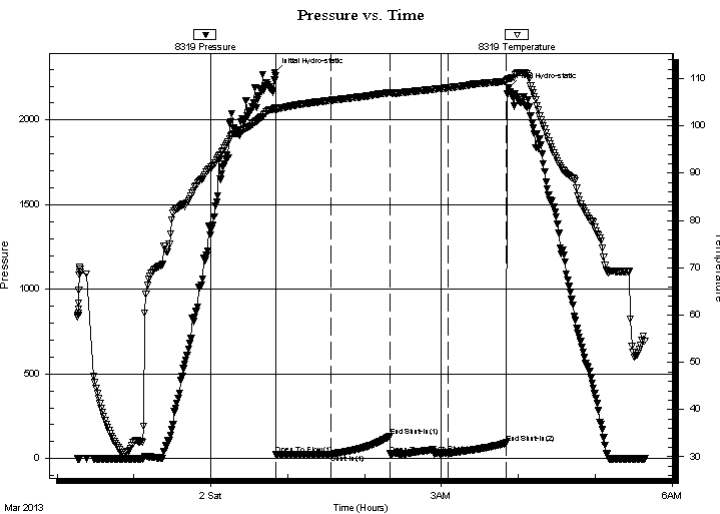
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:51:00
 Tester: Brett Dickinson
 Time Test Ended: 05:39:00
 Unit No: 59
 Interval: **4326.00 ft (KB) To 4377.00 ft (KB) (TVD)**
 Reference Elevations: 2216.00 ft (KB)
 Total Depth: 4377.00 ft (KB) (TVD)
 2208.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8319

Outside

Press @ Run Depth: 29.13 psig @ 4364.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.01 End Date: 2013.03.02 Last Calib.: 2013.03.02
 Start Time: 22:16:05 End Time: 05:38:59 Time On Btm: 2013.03.02 @ 00:50:00
 Time Off Btm: 2013.03.02 @ 03:52:30

TEST COMMENT: IF-1 1/4" blow
 IS-No blow
 FF-very weak surface blow
 FS-No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2281.66 | 103.66 | Initial Hydro-static |
| 1 | 23.39 | 103.49 | Open To Flow (1) |
| 44 | 26.97 | 105.40 | Shut-In(1) |
| 90 | 132.59 | 107.02 | End Shut-In(1) |
| 90 | 27.61 | 107.02 | Open To Flow (2) |
| 136 | 29.13 | 108.09 | Shut-In(2) |
| 181 | 92.83 | 109.47 | End Shut-In(2) |
| 183 | 2191.03 | 109.98 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 10.00 | Oil spotted Mud | 0.05 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52031

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.03.01 @ 22:16:00

GENERAL INFORMATION:

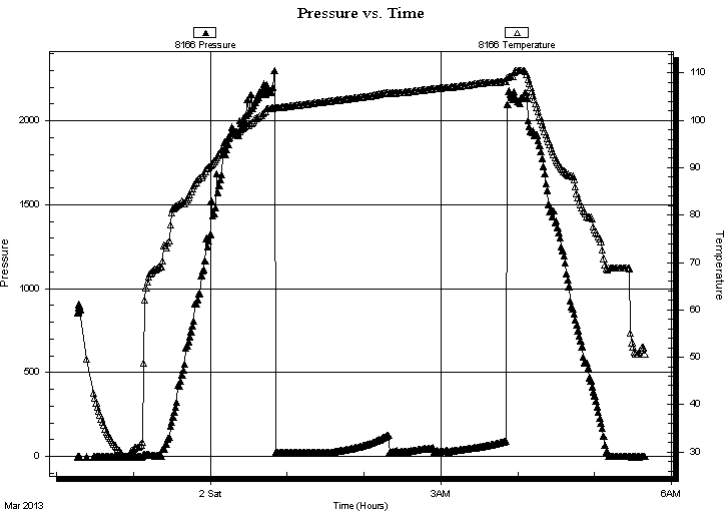
Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 00:51:00 Tester: Brett Dickinson
 Time Test Ended: 05:39:00 Unit No: 59
Interval: 4326.00 ft (KB) To 4377.00 ft (KB) (TVD)
 Reference Elevations: 2216.00 ft (KB)
 Total Depth: 4377.00 ft (KB) (TVD) 2208.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8166

Inside

Press @ Run Depth: psig @ 4364.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.01 End Date: 2013.03.02 Last Calib.: 1899.12.30
 Start Time: 22:16:35 End Time: 05:38:59 Time On Btm:
 Time Off Btm:

TEST COMMENT: IF-1 1/4" blow
 IS-No blow
 FF-very weak surface blow
 FS-No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 10.00 | Oil spotted Mud | 0.05 |
| | | |
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| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52031

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.03.01 @ 22:16:00

Tool Information

| | | | | | |
|----------------------------|--------------------|-----------------------|----------------------------|------------------------|-------------|
| Drill Pipe: | Length: 4292.00 ft | Diameter: 3.80 inches | Volume: 60.21 bbl | Tool Weight: | 2500.00 lb |
| Heavy Wt. Pipe: | Length: ft | Diameter: 2.70 inches | Volume: - bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: | 50000.00 lb |
| | | | <u>Total Volume:</u> - bbl | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 24.00 ft | | | String Weight: Initial | 50000.00 lb |
| Depth to Top Packer: | 4326.00 ft | | | Final | 50000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval betw een Packers: | 51.00 ft | | | | |
| Tool Length: | 79.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |
| Tool Comments: | | | | | |

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|---------------------------|--------------|------------|----------|------------|-------------------------------|
| Change Over Sub | 1.00 | | | 4299.00 | |
| Shut In Tool | 5.00 | | | 4304.00 | |
| Hydraulic tool | 5.00 | | | 4309.00 | |
| Jars | 5.00 | | | 4314.00 | |
| Safety Joint | 2.00 | | | 4316.00 | |
| Packer | 5.00 | | | 4321.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4326.00 | |
| Stubb | 1.00 | | | 4327.00 | |
| Perforations | 5.00 | | | 4332.00 | |
| Change Over Sub | 1.00 | | | 4333.00 | |
| Drill Pipe | 31.00 | | | 4364.00 | |
| Recorder | 0.00 | 8166 | Inside | 4364.00 | |
| Recorder | 0.00 | 8319 | Outside | 4364.00 | |
| Change Over Sub | 1.00 | | | 4365.00 | |
| Perforations | 9.00 | | | 4374.00 | |
| Bullnose | 3.00 | | | 4377.00 | 51.00 Bottom Packers & Anchor |
| Total Tool Length: | 79.00 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52031

DST#: 1

ATTN: Marc Dow ning

Test Start: 2013.03.01 @ 22:16:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 10.00 | Oil spotted Mud | 0.049 |

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

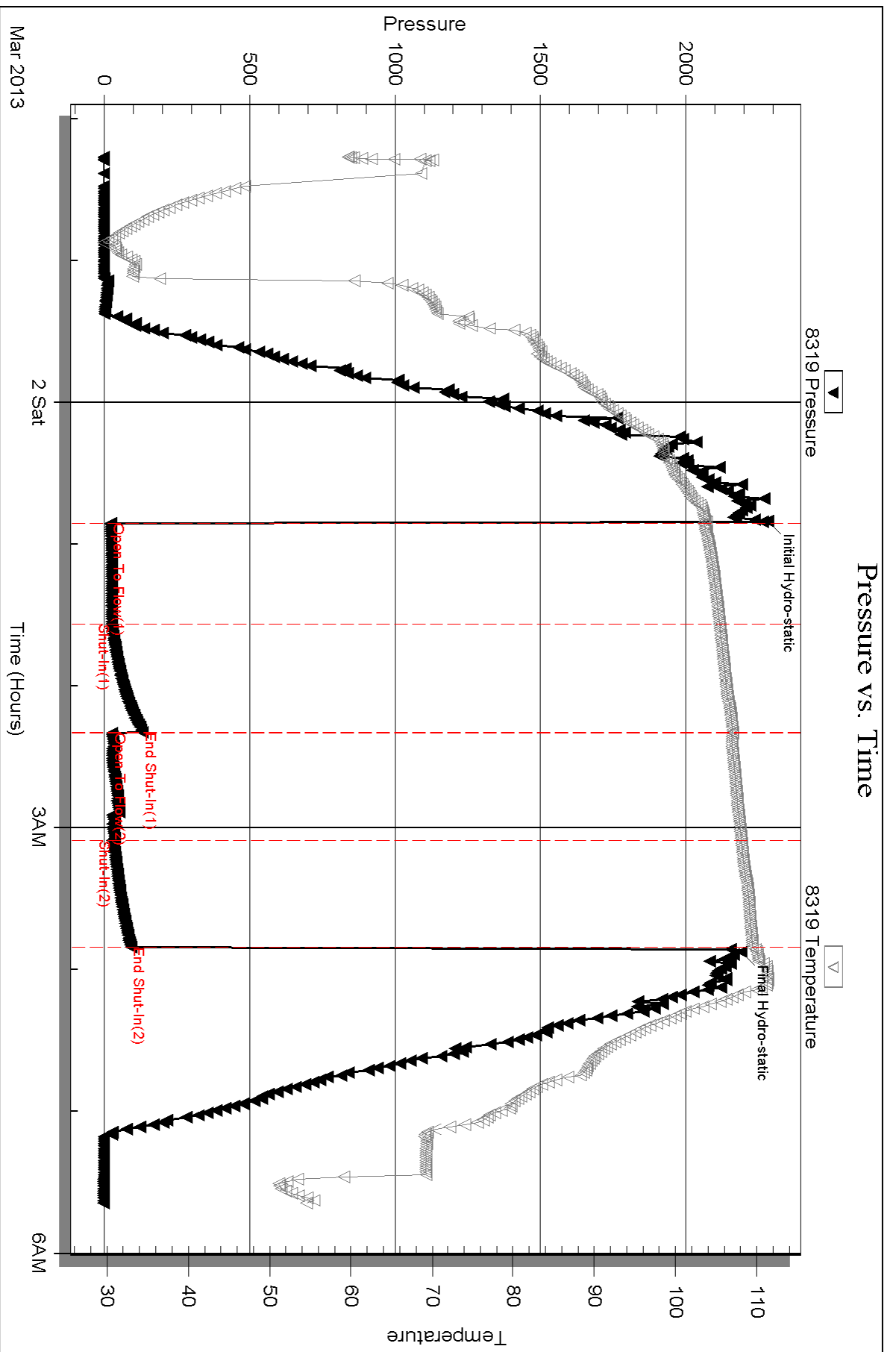
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



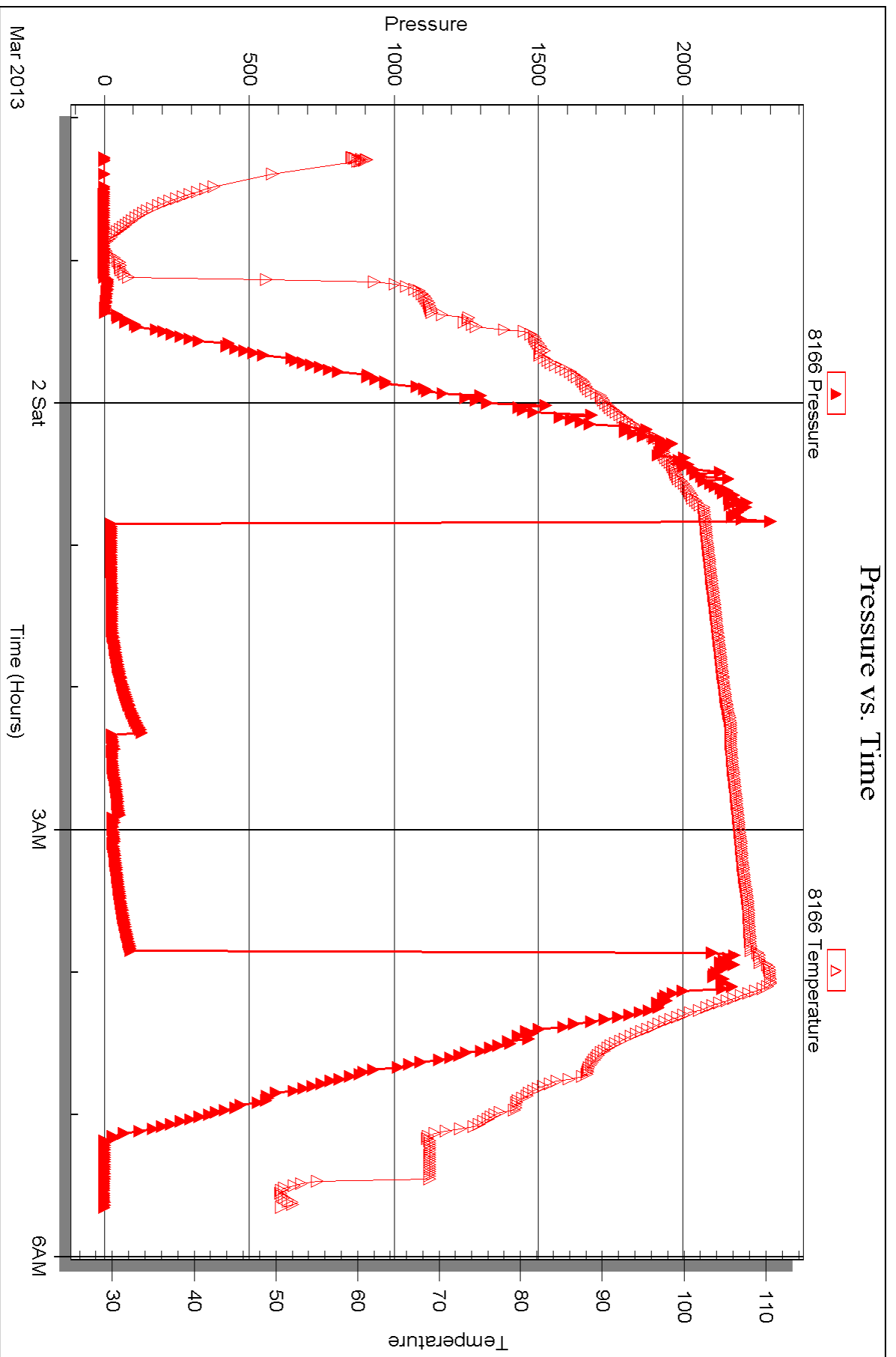
Serial #: 8166

Inside

Dow nung-Nelson Oil Co.

Norris #1-6

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 52031

Printed: 2013.03.08 @ 13:34:57



DRILL STEM TEST REPORT

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

PO Box 1019
Hays KS 67601

ATTN: Marc Downing

Norris #1-6

6-21s-20w Pawnee,KS

Start Date: 2013.03.02 @ 12:35:00

End Date: 2013.03.02 @ 18:27:00

Job Ticket #: 52032 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2013.03.08 @ 13:34:11



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52032

DST#: 2

ATTN: Marc Dow ning

Test Start: 2013.03.02 @ 12:35:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:30

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4377.00 ft (KB) To 4384.00 ft (KB) (TVD)

Reference Elevations: 2216.00 ft (KB)

Total Depth: 4384.00 ft (KB) (TVD)

2208.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8319 Outside

Press @ RunDepth: 41.12 psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.02

End Date: 2013.03.02

Last Calib.: 2013.03.02

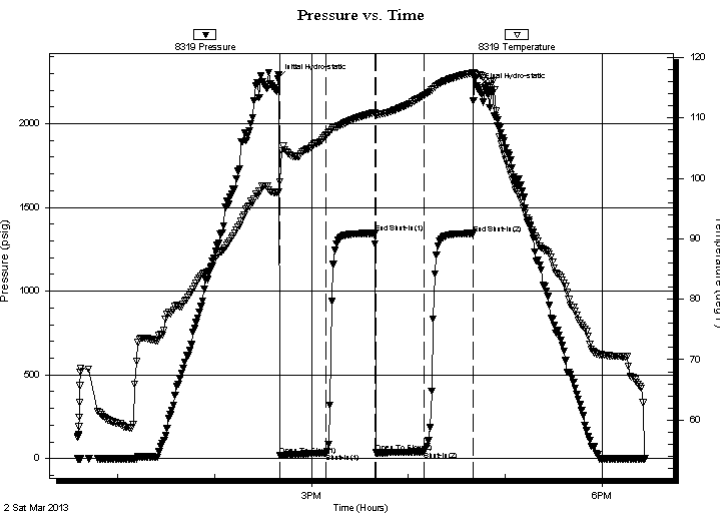
Start Time: 12:35:05

End Time: 18:26:59

Time On Btm: 2013.03.02 @ 14:39:00

Time Off Btm: 2013.03.02 @ 16:43:00

TEST COMMENT: IF-2 1/4" blow
IS- No blow
FF-3/4" blow
FS- No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2269.84 | 97.81 | Initial Hydro-static |
| 2 | 18.27 | 99.44 | Open To Flow (1) |
| 30 | 32.94 | 107.13 | Shut-In(1) |
| 60 | 1345.43 | 110.87 | End Shut-In(1) |
| 61 | 34.63 | 110.53 | Open To Flow (2) |
| 91 | 41.12 | 113.70 | Shut-In(2) |
| 121 | 1344.52 | 117.45 | End Shut-In(2) |
| 124 | 2216.11 | 117.18 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 28.00 | Oil spotted MCW 65%W 35%M | 0.14 |
| 2.00 | Free Oil | 0.01 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52032

DST#: 2

ATTN: Marc Dow ning

Test Start: 2013.03.02 @ 12:35:00

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:40:30

Time Test Ended: 18:27:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Brett Dickinson

Unit No: 59

Interval: 4377.00 ft (KB) To 4384.00 ft (KB) (TVD)

Reference Elevations: 2216.00 ft (KB)

Total Depth: 4384.00 ft (KB) (TVD)

2208.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8166

Inside

Press @ RunDepth: psig @ 4381.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.03.02

End Date: 2013.03.02

Last Calib.: 2013.03.02

Start Time: 12:35:05

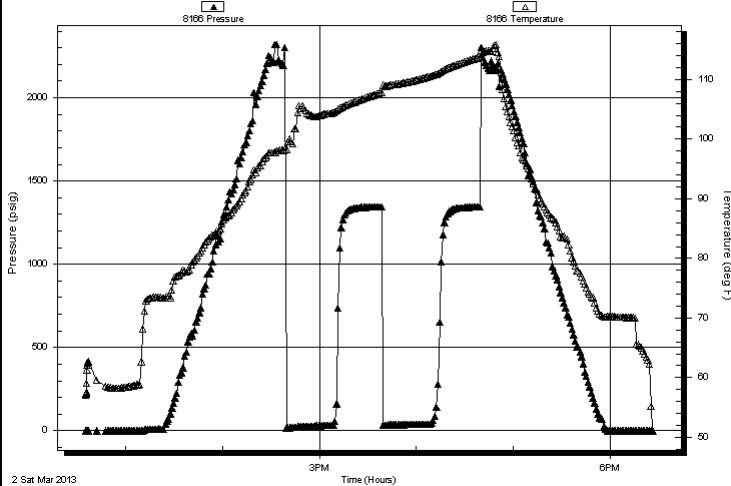
End Time: 18:26:29

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-2 1/4" blow
ISI-No blow
FF-3/4" blow
FSI-No blow

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
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Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 28.00 | Oil spotted MCW 65%W 35%M | 0.14 |
| 2.00 | Free Oil | 0.01 |
| | | |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52032

DST#: 2

ATTN: Marc Dow ning

Test Start: 2013.03.02 @ 12:35:00

Tool Information

| | | | | | |
|----------------------------|--------------------|-----------------------|----------------------|------------------------|-------------|
| Drill Pipe: | Length: 4322.00 ft | Diameter: 3.80 inches | Volume: 60.63 bbl | Tool Weight: | 2500.00 lb |
| Heavy Wt. Pipe: | Length: ft | Diameter: 2.70 inches | Volume: - bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: | 50000.00 lb |
| | | | <u>Total Volume:</u> | Tool Chased | 0.00 ft |
| | | | - bbl | String Weight: Initial | 50000.00 lb |
| Drill Pipe Above KB: | 3.00 ft | | | Final | 50000.00 lb |
| Depth to Top Packer: | 4377.00 ft | | | | |
| Depth to Bottom Packer: | ft | | | | |
| Interval betw een Packers: | 7.00 ft | | | | |
| Tool Length: | 35.00 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 | | | 4350.00 | |
| Shut In Tool | 5.00 | | | 4355.00 | |
| Hydraulic tool | 5.00 | | | 4360.00 | |
| Jars | 5.00 | | | 4365.00 | |
| Safety Joint | 2.00 | | | 4367.00 | |
| Packer | 5.00 | | | 4372.00 | 28.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4377.00 | |
| Stubb | 1.00 | | | 4378.00 | |
| Perforations | 3.00 | | | 4381.00 | |
| Recorder | 0.00 | 8166 | Inside | 4381.00 | |
| Recorder | 0.00 | 8319 | Outside | 4381.00 | |
| Bullnose | 3.00 | | | 4384.00 | 7.00 Bottom Packers & Anchor |

Total Tool Length: 35.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Dow ning-Nelson Oil Co.

6-21s-20w Pawnee,KS

PO Box 1019
Hays KS 67601

Norris #1-6

Job Ticket: 52032

DST#: 2

ATTN: Marc Dow ning

Test Start: 2013.03.02 @ 12:35:00

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:

27000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------------|----------------|
| 28.00 | Oil spotted MCW 65%W 35%M | 0.138 |
| 2.00 | Free Oil | 0.010 |

Total Length: 30.00 ft Total Volume: 0.148 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

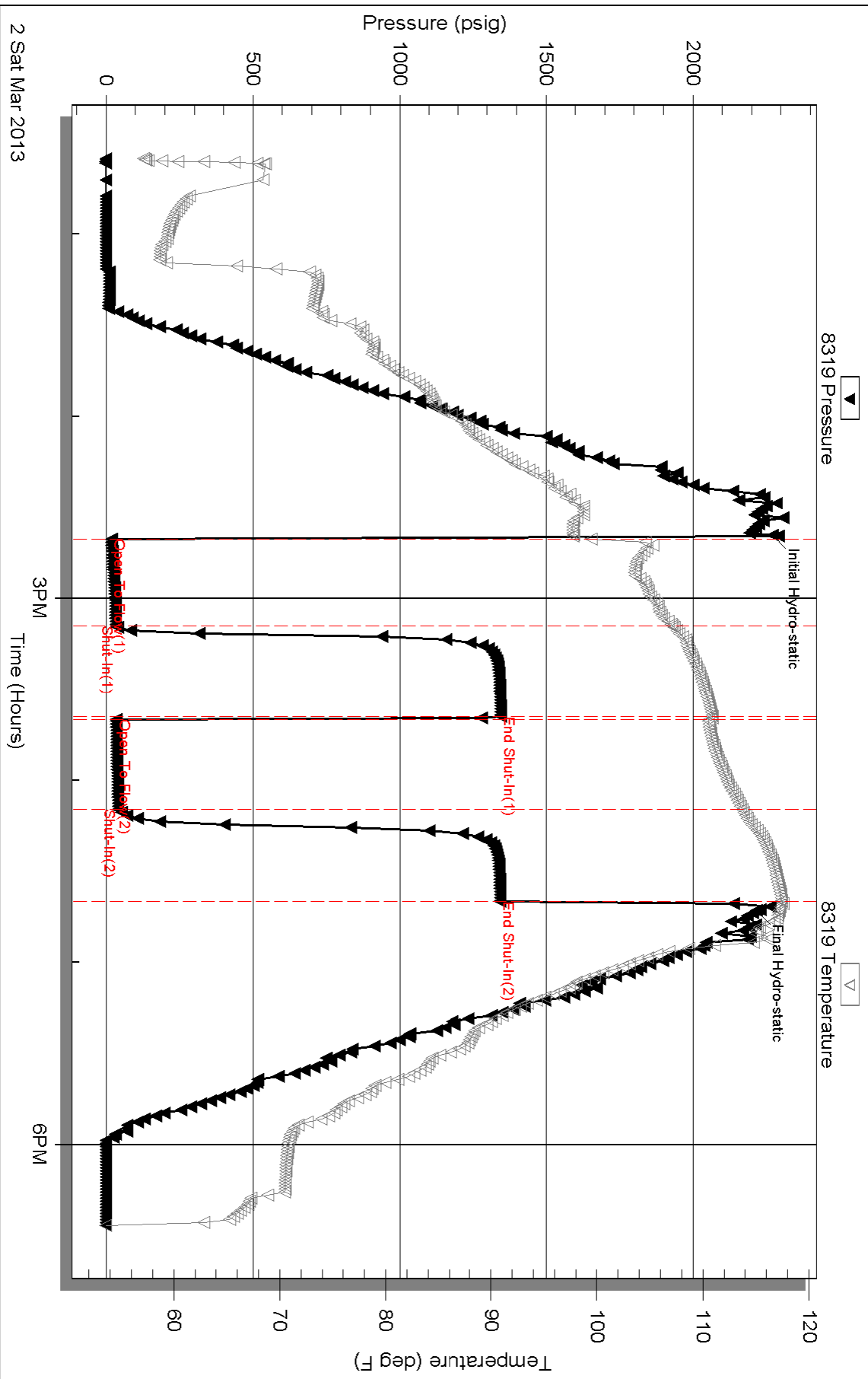
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time



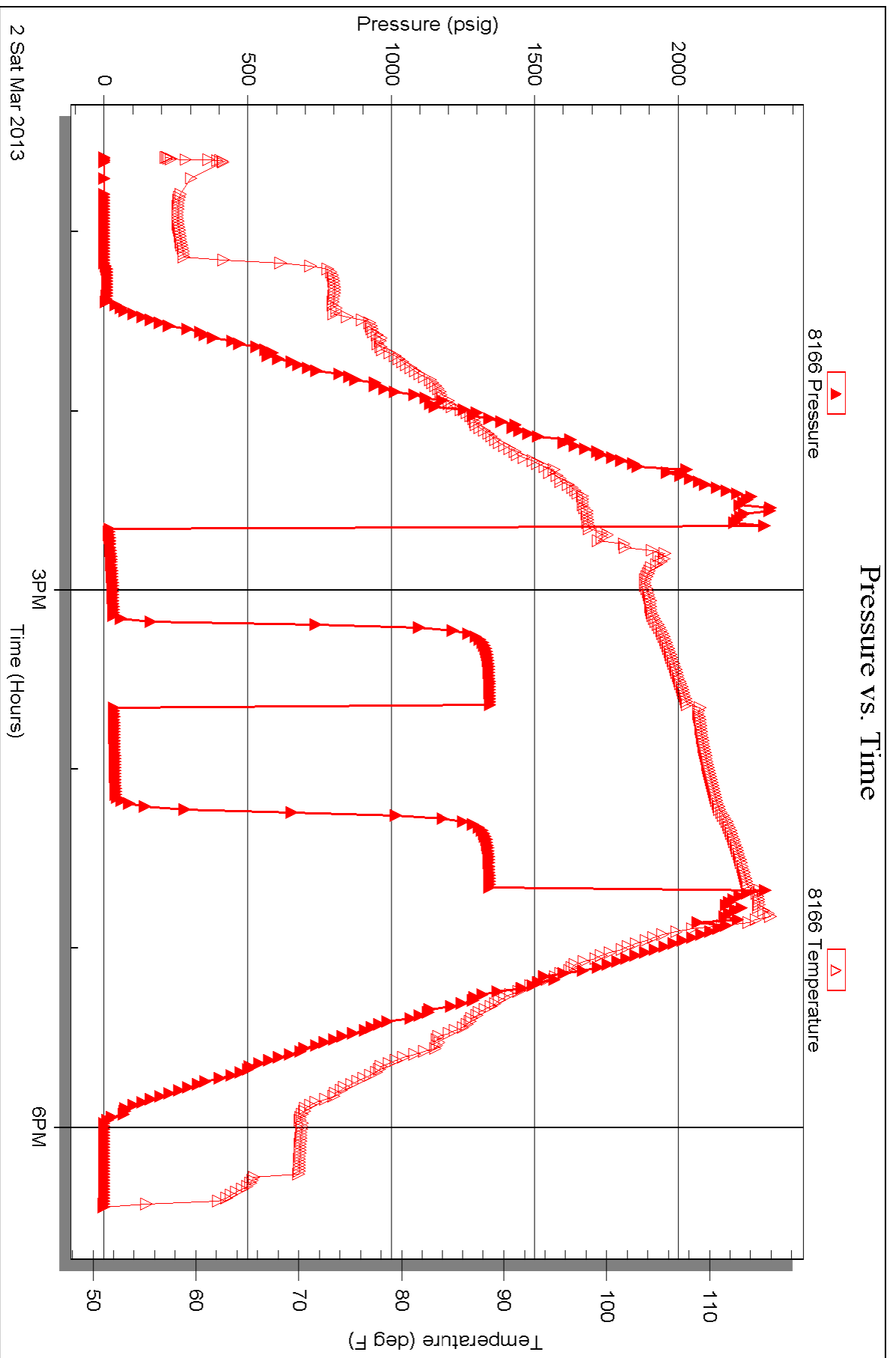
Serial #: 8166

Inside

Dow nung-Nelson Oil Co.

Norris #1-6

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 52032

Printed: 2013.03.08 @ 13:34:15



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52031

4/10

Well Name & No. Norris #1-6 Test No. 1 Date 3/1/13
 Company Downing-Nelson Oil Co Inc Elevation 2216 KB 2208 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #4
 Location: Sec. 6 Twp. 21 Rge. 20 Co. Pawnee State KS

Interval Tested 4326 - 4377 Zone Tested Miss
 Anchor Length 51 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4321 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4326 Wt. Pipe Run - WL 8.0
 Total Depth 4377 Chlorides 3,600 ppm System LCM 2[#]

Blow Description JF - 1 1/4 in blow
ISI - No blow
FF - very weak surface blow
FSD - No blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|--------|------|
| <u>10</u> | <u>oil spotted mud</u> | | | | |
| _____ | _____ | | | | |
| _____ | _____ | | | | |
| _____ | _____ | | | | |

Rec Total 10 BHT 109 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

| | | |
|-------------------------------------|--|--|
| (A) Initial Hydrostatic <u>2281</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>19:55</u> |
| (B) First Initial Flow <u>23</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>22:16</u> |
| (C) First Final Flow <u>27</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>00:50</u> |
| (D) Initial Shut-In <u>133</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>3:50</u> |
| (E) Second Initial Flow <u>28</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>5:40</u> |
| (F) Second Final Flow <u>29</u> | <input checked="" type="checkbox"/> Mileage <u>114 RT</u> 176.70 | Comments _____ |
| (G) Final Shut-In <u>93</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>2,191</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |

Initial Open 45
 Initial Shut-In 45
 Final Flow 45
 Final Shut-In 45

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1751.70

Sub Total 0
 Total 1751.70
 MP/DST Disc't _____

Approved By _____ Our Representative Bruce

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 52032

Well Name & No. Norris #1-6 Test No. 2 Date 3/2/13
 Company Downing-Nelson Oil Co Inc Elevation 2216 KB 2208 GL
 Address PO Box 1019 Hays KS 67601
 Co. Rep / Geo. _____ Rig Discovery #4
 Location: Sec. 6 Twp. 21 Rge. 20 Co. Pawnee State KS

Interval Tested 4377 - 4384 Zone Tested Miss
 Anchor Length 7 Drill Pipe Run _____ Mud Wt. 9.3
 Top Packer Depth 4372 Drill Collars Run 30 Vis 59
 Bottom Packer Depth 4377 Wt. Pipe Run - WL 8.0
 Total Depth 4384 Chlorides 3,600 ppm System LCM 2#

Blow Description IF - 2 1/4 in blow
FSI - No blow
FF - 3/4 in blow
FSI - No blow

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----------|------------------------|------|------|-----------|-----------|
| <u>2</u> | <u>Free Oil</u> | | | | |
| <u>28</u> | <u>oil spotted msw</u> | | | <u>65</u> | <u>35</u> |
| _____ | _____ | | | | |
| _____ | _____ | | | | |
| _____ | _____ | | | | |

Rec Total 30 BHT _____ Gravity _____ API RW .33 @ 55 ° F Chlorides 27000 ppm

| | | |
|--------------------------------------|---|--|
| (A) Initial Hydrostatic <u>2,270</u> | <input checked="" type="checkbox"/> Test <u>1250</u> | T-On Location <u>11:45</u> |
| (B) First Initial Flow <u>18</u> | <input checked="" type="checkbox"/> Jars <u>250</u> | T-Started <u>12:35</u> |
| (C) First Final Flow <u>33</u> | <input checked="" type="checkbox"/> Safety Joint <u>75</u> | T-Open <u>14:40</u> |
| (D) Initial Shut-In <u>1,345</u> | <input type="checkbox"/> Circ Sub _____ | T-Pulled <u>16:40</u> |
| (E) Second Initial Flow <u>35</u> | <input type="checkbox"/> Hourly Standby _____ | T-Out <u>18:30</u> |
| (F) Second Final Flow <u>41</u> | <input checked="" type="checkbox"/> Mileage <u>114.7</u> 176.70 | Comments _____ |
| (G) Final Shut-In <u>1,345</u> | <input type="checkbox"/> Sampler _____ | |
| (H) Final Hydrostatic <u>2,216</u> | <input type="checkbox"/> Straddle _____ | <input type="checkbox"/> Ruined Shale Packer _____ |

Initial Open 30
 Initial Shut-In 30
 Final Flow 30
 Final Shut-In 30

Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Sub Total 1751.70

Sub Total _____
 Total 1751.70
 MP/DST Disc't _____

Approved By _____ Our Representative Butt Deer

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

ALLIED OIL & GAS SERVICES, LLC 059357 ✓

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend, KS

| | | | | | | | |
|---|---------------|----------------|-----------------|------------|-------------|--------------------------|---------------------------|
| DATE <u>2-20-13</u> | SEC. <u>6</u> | TWP. <u>21</u> | RANGE <u>20</u> | CALLED OUT | ON LOCATION | JOB START <u>4:00 AM</u> | JOB FINISH <u>5:00 AM</u> |
| LEASE <u>North</u> WELL # <u>1-6</u> LOCATION <u>Burdett 5N 2W 91st</u> | | | | | | COUNTY <u>Polk</u> | STATE <u>KS</u> |
| OLD OR <u>NEW</u> (Circle one) | | | | | | | |

| | |
|---|--|
| CONTRACTOR <u>D. D. Jones # 4</u> | OWNER <u>1201 8.3</u> |
| TYPE OF JOB <u>Surf Seal</u> | |
| HOLE SIZE <u>12 1/4</u> T.D. | CEMENT |
| CASING SIZE <u>12 1/4</u> DEPTH <u>431.33</u> | AMOUNT ORDERED <u>250 SK Class A</u> |
| TUBING SIZE _____ DEPTH _____ | <u>34-002-4 gel</u> |
| DRILL PIPE <u>4 1/2</u> DEPTH _____ | |
| TOOL _____ DEPTH _____ | |
| PRES. MAX _____ MINIMUM _____ | COMMON <u>250</u> @ <u>17.90</u> <u>4,475.00</u> |
| MEAS. LINE _____ SHOE JOINT _____ | POZMIX _____ @ _____ |
| CEMENT LEFT IN CSG. _____ | GEL <u>5</u> @ <u>23.40</u> <u>117.00</u> |
| PERFS. _____ | CHLORIDE <u>9</u> @ <u>64.00</u> <u>576.00</u> |
| DISPLACEMENT _____ | ASC _____ @ _____ |

EQUIPMENT

| | |
|------------------------------|----------------------------------|
| PUMP TRUCK # <u>724</u> | CEMENTER <u>Charles Chambers</u> |
| BULK TRUCK # <u>1009-112</u> | HELPER <u>Charles Chambers</u> |
| BULK TRUCK # _____ | DRIVER <u>Joel Monahan</u> |
| BULK TRUCK # _____ | DRIVER _____ |

| | | |
|----------------------------|---------------|------------------------------|
| HANDLING <u>271.92</u> | @ <u>2.98</u> | <u>672.50</u> |
| MILEAGE <u>12.36 x 40x</u> | <u>2.60</u> | <u>1,285.40</u> |
| | | TOTAL <u>7,125.74</u> |

REMARKS:
Break circulation with pig and
pump 56lb Freshwater About
with 250 SK Class A 34-002-4 gel
Displace 26.52 BBLs Freshwater 16LWT in
cement and circulation
Plug Down 5:00 AM
Rig Down

CHARGE TO: Downing-1181401

STREET _____

CITY _____ STATE _____ ZIP _____

To: Allied Oil & Gas Services, 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 _____

SIGNATURE Mike Smith

SERVICE

| | |
|-------------------------------------|-----------------|
| DEPTH OF JOB <u>431</u> | |
| PUMP TRUCK CHARGE _____ | <u>1,512.25</u> |
| EXTRA FOOTAGE _____ @ _____ | |
| MILEAGE <u>Hum 40</u> @ <u>7.70</u> | <u>308.00</u> |
| MANIFOLD _____ @ _____ | |
| <u>Hum 40</u> @ <u>4.40</u> | <u>176.00</u> |
| TOTAL <u>1,996.25</u> | |

PLUG & FLOAT EQUIPMENT

| | |
|---------------|--|
| _____ @ _____ | |
| _____ @ _____ | |
| _____ @ _____ | |
| _____ @ _____ | |
| _____ @ _____ | |

TOTAL _____

| | |
|----------------------------------|--------------------|
| SALES TAX (If Any) <u>428.94</u> | |
| TOTAL CHARGES <u>9,121.92</u> | |
| <u>2,280.22</u> | |
| DISCOUNT _____ | IF PAID IN 30 DAYS |
| <u>6,841.49</u> | |

ALLIED OIL & GAS SERVICES, LLC 059299

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Greer Bend, KS

| | | | | | | | |
|--|---------------|-------------------|---------------------------|--|-----------------------------|--------------------------|---------------------------|
| DATE <u>3-3-13</u> | SEC. <u>6</u> | TWP. <u>21S</u> | RANGE <u>20W</u> | CALLED OUT <u>7:00 AM</u> | ON LOCATION <u>11:30 AM</u> | JOB START <u>2:00 AM</u> | JOB FINISH <u>3:00 AM</u> |
| LEASE <u>Morris</u> | | WELL # <u>1-6</u> | | LOCATION <u>Alexander South 14m, West 1/2, South 1/2 Road End, East to Tank Battery.</u> | | COUNTY <u>Pennington</u> | STATE <u>KS</u> |
| OLD OR <input checked="" type="radio"/> NEW (Circle one) | | | South into location (62u) | | | | |

CONTRACTOR Discovery Lt OWNER Downing - Nelson Oil Co. Inc

TYPE OF JOB PTA

HOLE SIZE 7 7/8" T.D. 4384 ft CEMENT AMOUNT ORDERED 2205x 60/40 + 40/6 Gal

CASING SIZE 8 5/8" 23# DEPTH 4315 ft + 2.5 #/ft Flo-Seal

TUBING SIZE DEPTH

DRILL PIPE 4 1/2" 16.6 # DEPTH 1390 ft

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG.

PERFS.

DISPLACEMENT WBM + FW

EQUIPMENT

PUMP TRUCK CEMENTER Charles Ekins

388 HELPER Josh Isaac + Mike Southorn

BULK TRUCK

341 DRIVER Kevin Welglous

BULK TRUCK

DRIVER

COMMON 132 @ 17.90 2362.80

POZMIX 88 @ 9.35 822.80

GEL 8 @ 23.40 187.20

CHLORIDE @

ASC @

flaseal 55 @ 2.97 163.35

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HANDLING 234.97 @ 2.48 587.73

MILEAGE 9.88 x 40 x 2.60 1027.52

TOTAL 5151.80

REMARKS:

- Set Plug 1 @ 1390 ft: 6FW, 12.5 cement, 2FW, 10WBM (505x)
- Set Plug 2 @ 660 ft: 6FW, 12.5 cement, 4FW (505x)
- Set Plug 3 @ 460 ft: 6FW, 12.5 cement, 2FW (605x)
- Set Plug 4 @ 60 ft: 5 cement (205x)
- Plug Root Hole with 7.5 bit cement (305x)
- Plug Mouse Hole with 5 bit cement (205x)

SERVICE

DEPTH OF JOB 1390

PUMP TRUCK CHARGE 2249.87

EXTRA FOOTAGE @

MILEAGE 1000 40 @ 7.70 308.00

MANIFOLD @

1000 40 @ 4.40 176.00

@

TOTAL 2733.87

PLUG & FLOAT EQUIPMENT

@

@

@

@

@

TOTAL

SALES TAX (if Any)

TOTAL CHARGES 7885.87

DISCOUNT 1971.94

IF PAID IN 30 DAYS

5913.93

CHARGE TO: Downing-Nelson Oil Co. Inc.

STREET

CITY STATE ZIP

To: Allied Oil & Gas Services, 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

SIGNATURE [Signature]

**GEOLOGIC
 REPORT
 LOG**

COMPANY: Downing Nelson Oil Co., Inc.
 WELL Name: #1-6
 FIELD: Steffen

LOCATION: 2305' S1/2 & 22 1/2' E1/2
 SEC. 6 TWP. 21S RGE. 20W

COUNTY: Pottawatomie
 STATE: Kansas

OPERATOR: DUCK-I
 CONTRACTOR: Downers Drilling Rig #4
 COMB: 2-19-13
CASING RECORD
 COMF: 3-2-13
 SURF: 5 1/2" @ 431' PROD. Above
 TOTAL DEPTH LOG: 4394'

| | |
|-----|-----|
| 215 | 20W |
|-----|-----|

PRODUCTION: D+A
 KB: 2212
 DF
 CI: 2204

Drilling Measured from: FB
 4180 to: TD
 3600 to: TD
 Samples Examined from: 4180 to: TD
 Geological Superintendant from: 3600 to: TD
 Geologist: Marc Downing
 Wellsite Geologist: Above
 Electrical Surveys: Above

FORMATION TOPS AND STRUCTURAL POSITION

| FORMATION | SAMPLE TOP | ELECTRIC LOG TOP | SUB-SEA POSITION | STRUCTURAL POSITION |
|----------------|------------|------------------|------------------|---------------------|
| Top Anhydrite | 1371 | | +835 | -2 |
| Base Anhydrite | 1402 | | +810 | -5 |
| Heerner | 3730 | | -1514 | -9 |
| Lansing | 3780 | | -1564 | -9 |
| BKC | 4184 | | -1892 | -4 |
| Fort Scott | 4285 | | -2073 | -4 |
| CHEROKEE SH. | 4305 | | -2093 | -5 |
| Miss | 4342 | | -2150 | -11 |
| Osage | 4383 | | -2171 | -15 |

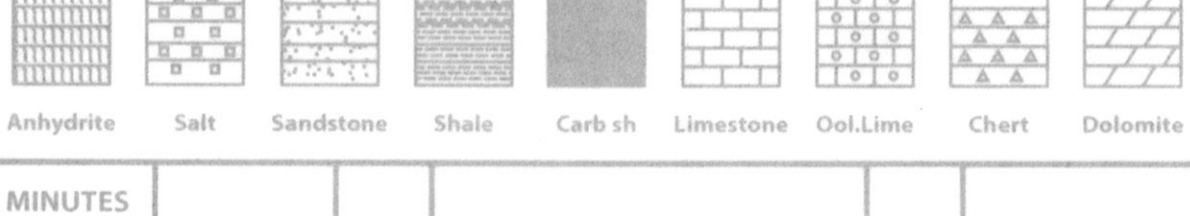
REFERENCE WELL FOR STRUCTURE: DUCK-I
 Kawbanga-Vandenberg #1-6 THIS IS A 2 1/2" SURF SEC. 10-21-2008

DRILL STEM TESTS

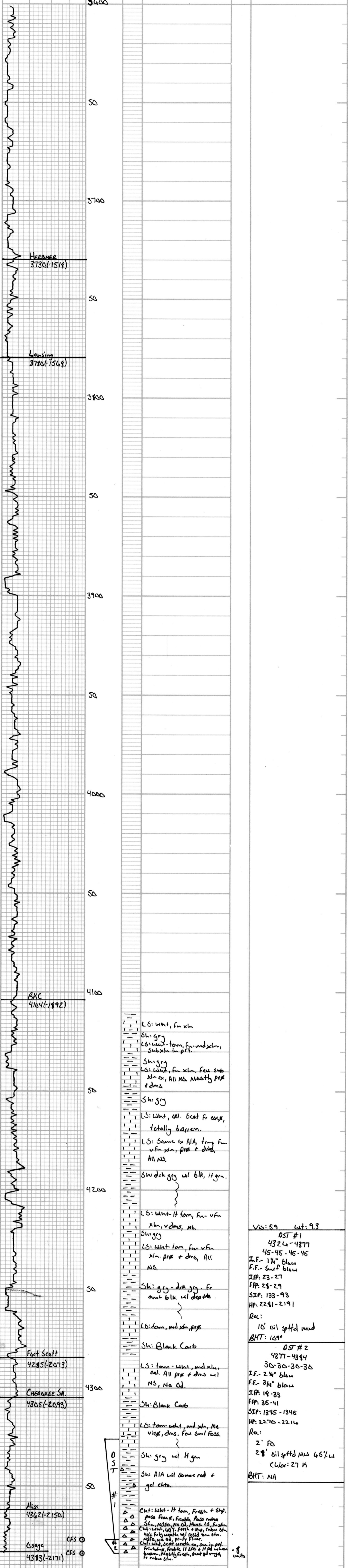
| No. | Interval | IFP/Time | ISP/Time | FFP/Time | ESP/Time | HP-FHP | RECOVERY |
|-----|----------|----------|----------|----------|----------|--------|----------|
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REMARKS AND RECOMMENDATIONS:

LEGEND



DRILLING TIME IN MINUTES PER FOOT
 Rate of Penetration Decreases
 5" 10" 15"



Vis: 59 Lst: 93
 DST #1
 4326-4377
 45-45-45-45
 I.F.- 1 1/4" blow
 F.F.- surf blow
 I.F.P: 23-27
 F.P.F: 28-29
 S.I.P: 133-93
 H.P: 2241-2191
 Rec:
 10' oil spfld mud
 BHT: 129°

DST # 2
 4377-4394
 30-30-30-30
 I.F.- 2 3/4" blow
 F.F.- 3 1/4" blow
 I.F.P: 14-33
 F.P.F: 35-41
 S.I.P: 1345-1346
 H.P: 2270-2214
 Rec:
 2' FO
 2 1/2" oil spfld mud 65% LW
 CLR: 27 M
 BHT: NA

OS T #1
 #2
 CFS
 CFS
 0.8 units

Marc Downing