



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: _____



1052299

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

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 | Crossland 1-16 |
| Doc ID | 1052299 |

All Electric Logs Run

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

| | |
|-----------|---------------------------|
| Form | ACO1 - Well Completion |
| Operator | Downing-Nelson Oil Co Inc |
| Well Name | Crossland 1-16 |
| Doc ID | 1052299 |

Tops

| Name | Top | Datum |
|----------------|------|-------|
| Top Anhydrite | 1780 | +534 |
| Base Anhydrite | 1826 | +488 |
| Topeka | 3483 | -1119 |
| Heebner | 3660 | -1346 |
| Toronto | 3680 | -1366 |
| LKC | 3694 | -1380 |
| BKC | 3946 | -1632 |
| Marmaton | 4051 | -1737 |
| Cherokee Shale | 4103 | -1789 |
| Cherokee Sand | 4148 | -1834 |

DRILL STEM TESTS

| No. | Interval | IFP/Time | ISIP/Time | FFP/Time | FSP/Time | MH-F/H | RECOVERY |
|-----|----------|----------|-----------|----------|----------|--------|----------|
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REMARKS AND RECOMMENDATIONS WELL RAN AS SEISMIC EXPECTED, BUT NO DEVELOPMENT IN LKC & SAND. PLUGGED.

Ron Nelson

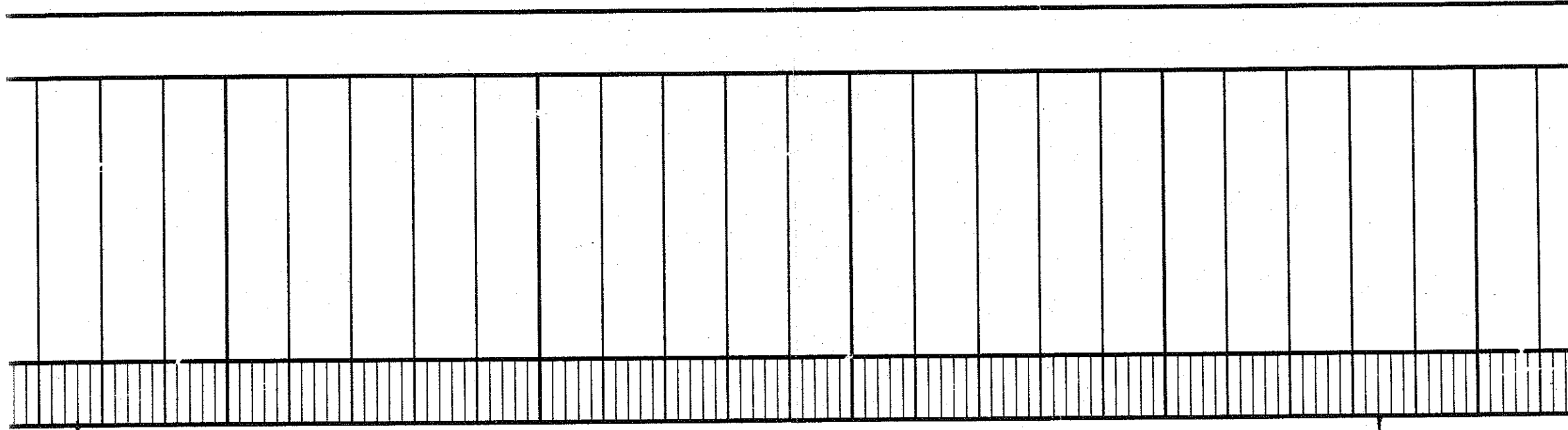
LEGEND

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

| REMARKS | | | | | | |
|---------------------|--|--|--|--|--|--|
| OIL SHOWS | | | | | | |
| SAMPLE DESCRIPTIONS | | | | | | |
| LITHOLOGY | | | | | | |
| DEPTH | <div style="display: flex; justify-content: space-between; align-items: center;"> 1750 1800 </div> | | | | | |

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Decreases

TOP ANHYDRITE + SALT LENS + SALT



1850

3300

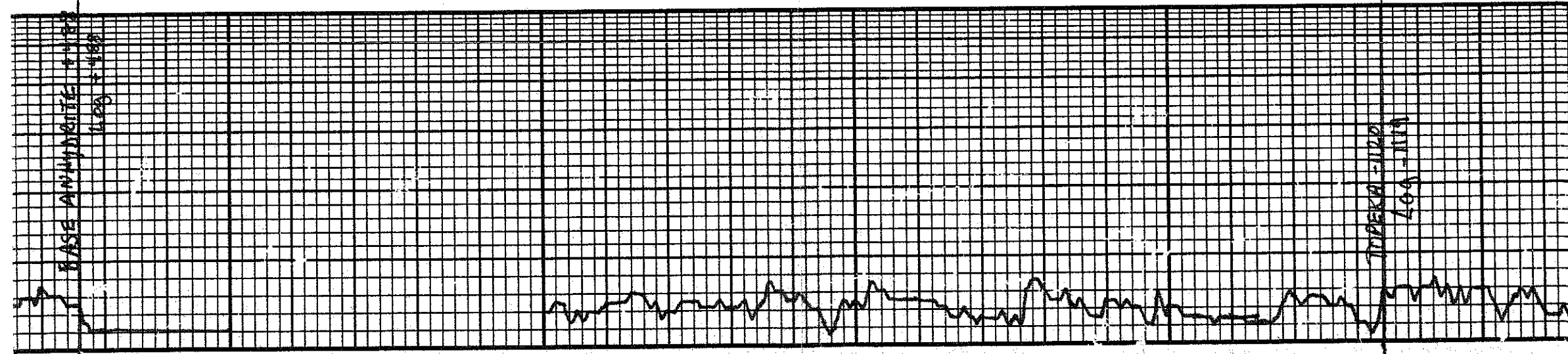
50

3400

50

BASE ANIMATOR 1-188
1000-1-188

TYPEKA - 1120
1000-1-111



3500

50

3600

50

3700

chky tan foss chky ls.
No. fossils .90 xyl &
fossils

tan tot foss & chky tan
ls. up to 1/2"

Dns tan fr xyl/ls

mst mid xyl to mod dns ls
thin w/ tan. pap. as

aa

SA blk carb

sh tan, gray

Dns w/ mic xyl/ls, pri xyl
NS.

DK gray sh

LS tan sandstone chky tan
int-fossils. NS tan w/ xyl
Dns pr xyl & mic xyl/ls
w/ opal

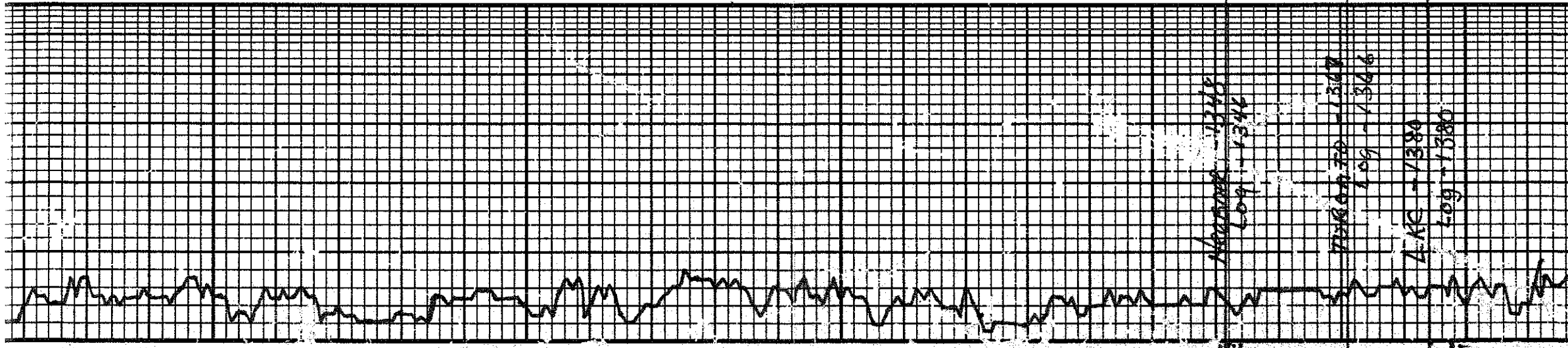
LS w/ tan mic xyl to 1/2" dns
w/ tan. pap. as

DST # 3
STRADDLE
3720'-3761'

1346
Log - 1346

1347
Log - 1347

1380
Log - 1380



DST # 3
 1st op 2 1/4" Blow
 2nd op Dead
 IFD 25-69
 FFP 33-37
 SIP 1174-1128
 HP 1908-1753
 REC 45' VSDCM
 270 ON 98' Dams

DST # 1
 DST # 1
 3700'-3781'
 45" 45" 45" 45"
 1st op 808 32"
 2nd op 5 1/2" Blow
 IFD 23-69
 FFP 72-108
 SIP 845-780
 HP 1794-1750
 Rec: 1' clean oil
 189' MCW

DST # 2
 3877-3900'
 45" 45" 45" 45"
 1st op 6 1/2" Blow
 2nd op 5" Blow
 IFD 14-35
 FFP 33-46
 SIP 1127-1100
 HP 1902-1841
 Rec. 65' VSDCM
 5900L
 20% mud
 75% water

| | |
|--|--|
| SN Buk carb | LS tan - thin ss in foss w/ g dms. top of ss st. red sm. + white ss. top of ss 2-1/2" x 1" ss, od. fr. ss, most fr. lab. 5 m. thickness w/ rounded. ss in SS grey clay |
| WD 974 2 GR 45A | LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) |
| LS tan - thin ss in foss w/ g dms. top of ss st. red sm. + white ss. top of ss 2-1/2" x 1" ss, od. fr. ss, most fr. lab. 5 m. thickness w/ rounded. ss in SS grey clay | Dirt grey ls tan - tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) SS grey clay |
| LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) | LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) |
| LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) | LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) |
| LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) | LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) |
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| LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) | LS tan - heavy v. foss. eo. (w/ od int. red. ss. fr. of fr. blue - tan v. fossiliferous) |
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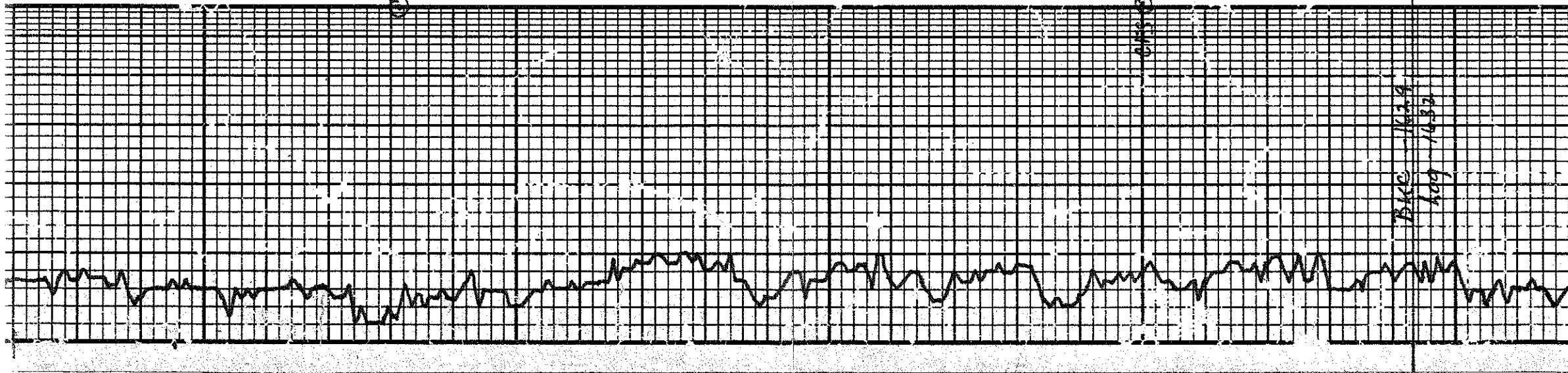
50

3800

50

3900

50



BKC 1629
 log 1633

4000

2

4100

50

4200

MARION - 1770

LOG - 1787

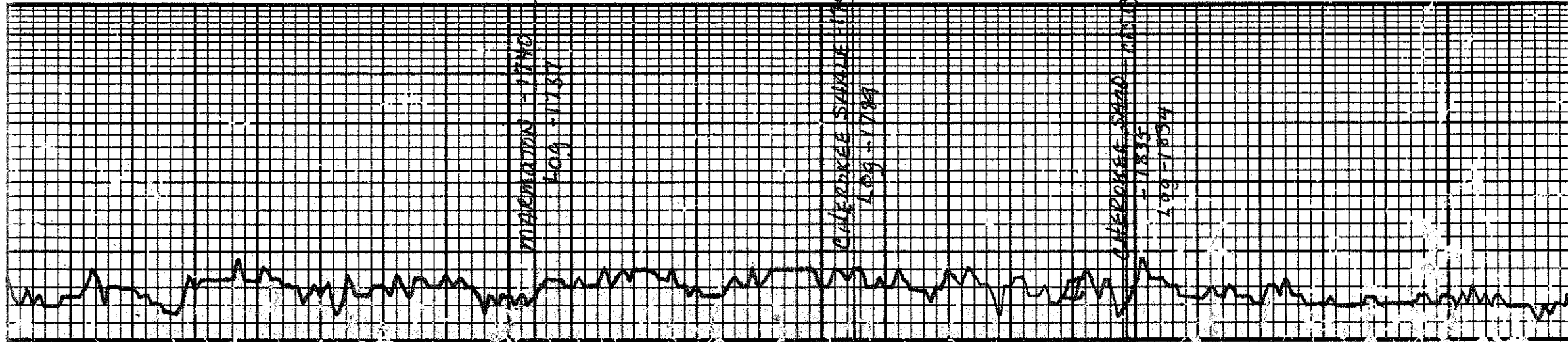
CHERRY SAGE - 1791

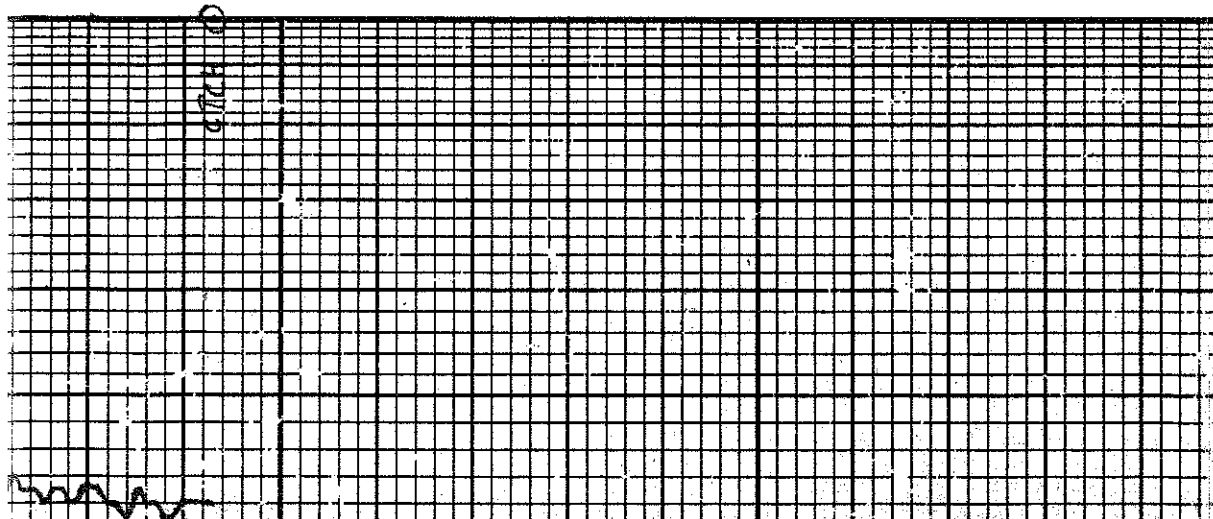
LOG - 1784

CHERRY SAGE - 1835

LOG - 1837

| | |
|---|---|
| RO & BRN 8/9/95 | LS BRN - many fine scale pr. xyl. pms w/ purple stain wh. chd |
| RO SH | SMOOTHY - BRN GRY & BRN SH |
| RO SH | DRS - BRN MICRYLUS PROX |
| RO & BRN SH | RO & BRN SH |
| SH GUMMY | SH GUMMY |
| ORANGE CHD | ORANGE CHD |
| ORANGE PRW CHD | ORANGE PRW CHD |
| SH SVN GRY GRY BRN | SH SVN GRY GRY BRN |
| LS BRN MICRYLUS PROX | LS BRN MICRYLUS PROX |
| VIP & MS | VIP & MS |
| LS & BRN MS | LS & BRN MS |
| LS a w/ chd wh. stain op CRNG SHP BRN | LS a w/ chd wh. stain op CRNG SHP BRN |
| SH DELM TAN LS w/ BRN XYL M V BRN STAIN - BRN LS & WH. OP TAN CHD MS | SH DELM TAN LS w/ BRN XYL M V BRN STAIN - BRN LS & WH. OP TAN CHD MS |
| SH BRN CARB | SH BRN CARB |
| SH V GRY BRN | SH V GRY BRN |
| W/ CRNG TAN, BRN, CRNG | W/ CRNG TAN, BRN, CRNG |
| SH BRN GRY | SH BRN GRY |
| LS GRY BRN MICRYLUS PROX | LS GRY BRN MICRYLUS PROX |
| SH V GRY | SH V GRY |
| LS BRN GRY TAN MICRYLUS PROX | LS BRN GRY TAN MICRYLUS PROX |
| SS CLSTR - BRN, V GRN, LG PR INT GRN & BRN W/ GRY SH | SS CLSTR - BRN, V GRN, LG PR INT GRN & BRN W/ GRY SH |
| SH V GRY SS, S.M. CLSTR GRN CLSTR W/ ST. GRN TIGHT PRW MS | SH V GRY SS, S.M. CLSTR GRN CLSTR W/ ST. GRN TIGHT PRW MS |
| SH GRY RO | SH GRY RO |
| GLAUCONITE - GRN SS CLSTR BRN SH | GLAUCONITE - GRN SS CLSTR BRN SH |
| LN - OP CHD W/ V GRN PRW - LD SS CLSTRS GRN & BRN CLSTRS ALL MS. NO OO NO SH | LN - OP CHD W/ V GRN PRW - LD SS CLSTRS GRN & BRN CLSTRS ALL MS. NO OO NO SH |
| SH S. BRN CARB | SH S. BRN CARB |
| V GR GRY | V GR GRY |
| BRN | BRN |
| CHD TAN WH GRY SHP BRN MS | CHD TAN WH GRY SHP BRN MS |
| W/ INT BRN SHS GRY BRN, BRN | W/ INT BRN SHS GRY BRN, BRN |





AA
AA
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AA
AA

BRN ALL MS.
AA most tan, yellowish ch
fw w/ op areas.

Con Nelson

50

4300

LITHOLOGY

SAMPLE DESCRIPTIONS

OIL SHOWS

REMARKS

DEPTH

DRILLING TIME Minutes/Foot

Rate of Penetration Decreases

OPERATOR DNOG1
LEASE CROSSLAND #1-16 IP 0 3/4
ELEVATION 2314 KB RTD 4143'

LOCATION 1710' ENL 3/4 1/2' ENL
SEC 14 TWP 13 1/2 RNG 22 1/2
COUNTY TREAS STATE KANSAS



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

PO Box 372
Hays Ks 67601

ATTN:

Crossland 1-16

16-13-22, Trego, Ks

Job Ticket: 41915

DST#: 1

Test Start: 2011.02.07 @ 21:30:50

GENERAL INFORMATION:

Formation: **KC**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 00:44:20
 Time Test Ended: 05:49:50
 Interval: **3760.00 ft (KB) To 3781.00 ft (KB) (TVD)**
 Total Depth: 3781.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole
 Tester: Brett Dickinson
 Unit No: 47
 Reference Elevations: 2318.00 ft (KB)
 2308.00 ft (CF)
 KB to GR/CF: 10.00 ft

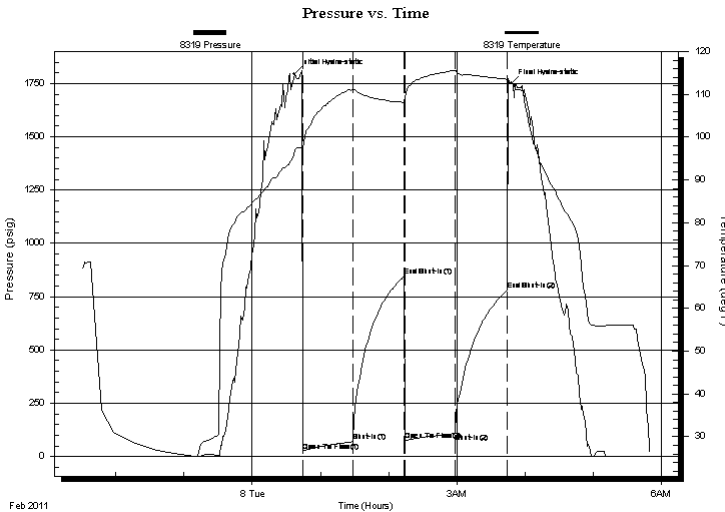
Serial #: 8319

Inside

Press @ Run Depth: 108.57 psig @ 3764.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.02.07 End Date: 2011.02.08 Last Calib.: 2011.02.08
 Start Time: 21:30:55 End Time: 05:49:49 Time On Btm: 2011.02.08 @ 00:37:20
 Time Off Btm: 2011.02.08 @ 03:47:50

TEST COMMENT: IF-BOB in 32min
 ISI-No blow
 FF-5.5in blow
 FSI-No blow

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1794.71 | 96.80 | Initial Hydro-static |
| 7 | 23.21 | 97.40 | Open To Flow (1) |
| 51 | 69.89 | 111.16 | Shut-In(1) |
| 96 | 845.06 | 108.14 | End Shut-In(1) |
| 97 | 74.24 | 108.96 | Open To Flow (2) |
| 141 | 108.57 | 115.61 | Shut-In(2) |
| 187 | 780.69 | 113.53 | End Shut-In(2) |
| 191 | 1750.90 | 112.60 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------|--------------|
| 189.00 | MCW 20%M 80%W | 2.38 |
| 1.00 | Free Oil | 0.01 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41915

DST#: 1

ATTN:

Test Start: 2011.02.07 @ 21:30:50

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:

120000 ppm

Viscosity: 69.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------|---------------|
| 189.00 | MCW 20%M 80%W | 2.378 |
| 1.00 | Free Oil | 0.014 |

Total Length: 190.00 ft

Total Volume: 2.392 bbl

Num Fluid Samples: 0

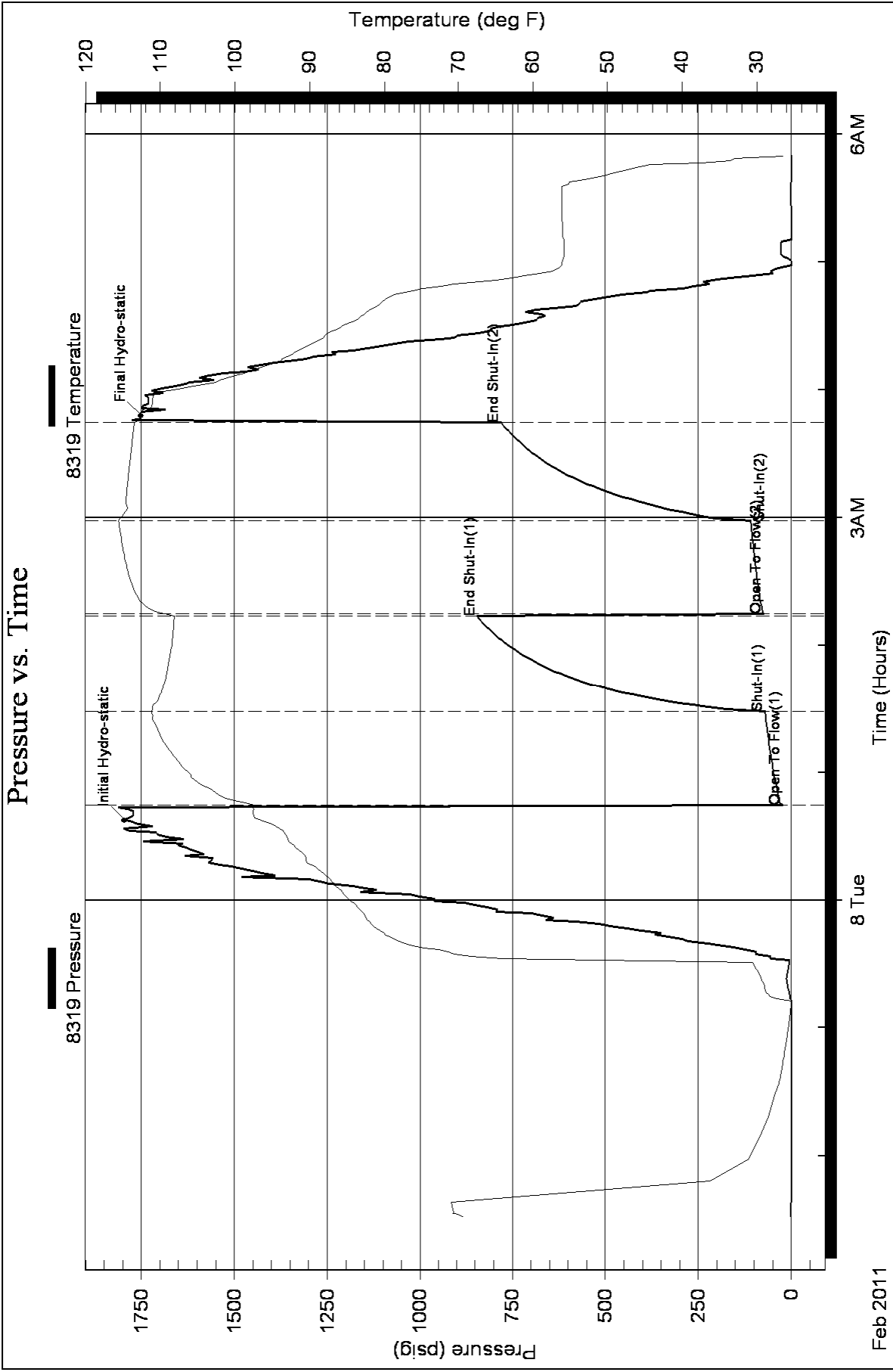
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41916

DST#: 2

ATTN:

Test Start: 2011.02.08 @ 19:00:01

GENERAL INFORMATION:

Formation: **KC"K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:01

Time Test Ended: 02:47:01

Test Type: Conventional Bottom Hole

Tester: Brett Dickinson

Unit No: 47

Interval: 3877.00 ft (KB) To 3900.00 ft (KB) (TVD)

Reference Elevations: 2318.00 ft (KB)

Total Depth: 3900.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8319 Inside

Press @ RunDepth: 46.53 psig @ 3883.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.08

End Date: 2011.02.09

Last Calib.: 2011.02.09

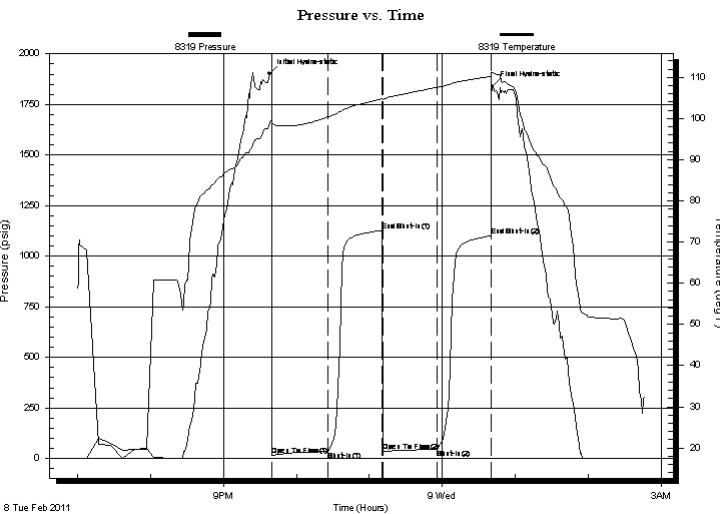
Start Time: 19:00:06

End Time: 02:47:00

Time On Btm: 2011.02.08 @ 21:38:01

Time Off Btm: 2011.02.09 @ 00:41:31

TEST COMMENT: IF-6.5in blow
ISI-No blow
FF-5in blow
FSI-No blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1902.41 | 99.02 | Initial Hydro-static |
| 2 | 14.45 | 98.89 | Open To Flow (1) |
| 48 | 35.63 | 100.34 | Shut-In(1) |
| 93 | 1127.14 | 104.81 | End Shut-In(1) |
| 94 | 33.96 | 104.63 | Open To Flow (2) |
| 138 | 46.53 | 107.56 | Shut-In(2) |
| 182 | 1100.45 | 110.16 | End Shut-In(2) |
| 184 | 1841.88 | 111.20 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------|--------------|
| 65.00 | V SOMCW 5%O 20%M 75%W | 0.64 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41916

DST#: 2

ATTN:

Test Start: 2011.02.08 @ 19:00:01

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: 69.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 7.60 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 2000.00 ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 65.00 | VSOMCW 5%O 20%M 75%W | 0.638 |

Total Length: 65.00 ft Total Volume: 0.638 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

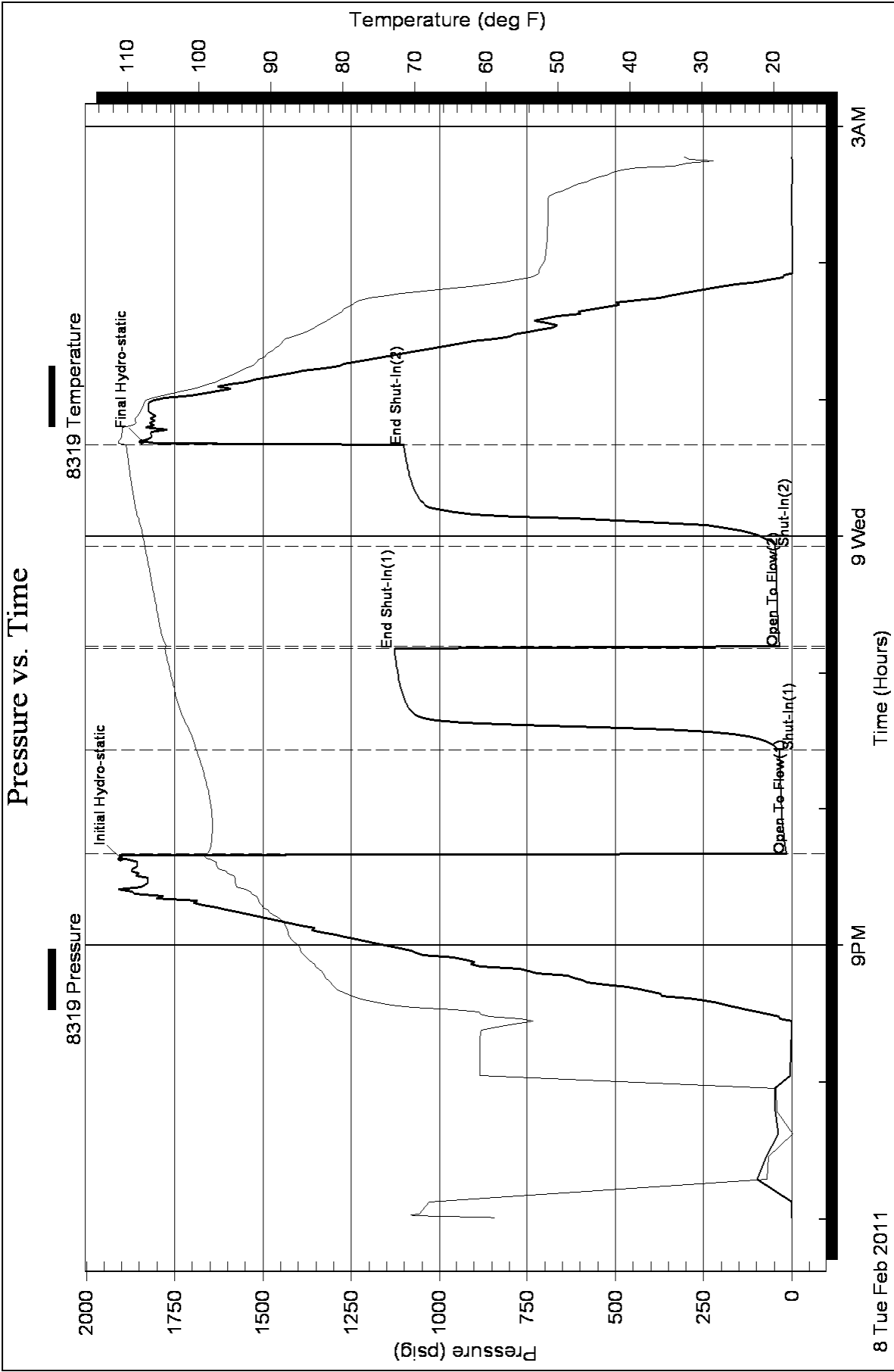
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

PO Box 372
Hays Ks 67601

ATTN:

Crossland 1-16

16-13-22, Trego, Ks

Job Ticket: 41917

DST#: 3

Test Start: 2011.02.10 @ 11:55:53

GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:53

Time Test Ended: 18:44:23

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: 3720.00 ft (KB) To 3761.00 ft (KB) (TVD)

Total Depth: 4244.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2318.00 ft (KB)

2308.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 6719 Outside

Press @ Run Depth: 37.78 psig @ 3721.00 ft (KB)

Start Date: 2011.02.10

End Date: 2011.02.10

Start Time: 11:55:58

End Time: 18:44:22

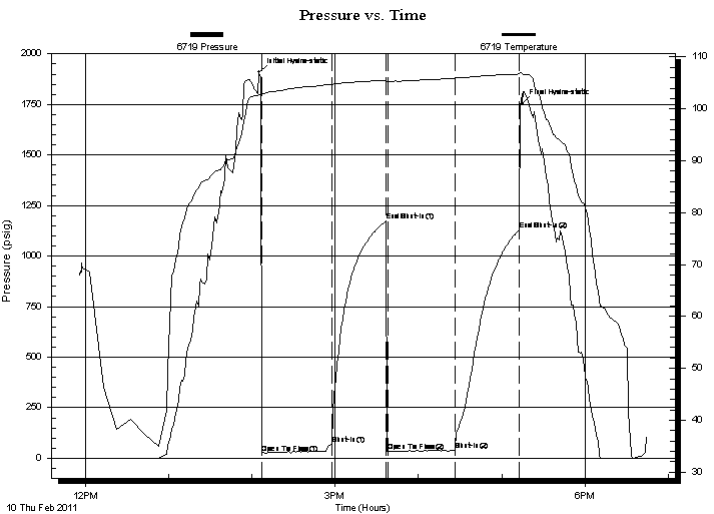
Capacity: 8000.00 psig

Last Calib.: 2011.02.10

Time On Btm: 2011.02.10 @ 14:05:23

Time Off Btm: 2011.02.10 @ 17:14:53

TEST COMMENT: IF-2.25in blow died back to 2in
 IS- No blow
 FF-surface blow died in 2min Flushtool surface blow died in 6min
 FSI- No blow



PRESSURE SUMMARY

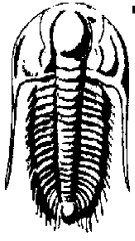
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1908.52 | 102.73 | Initial Hydro-static |
| 2 | 25.25 | 102.54 | Open To Flow (1) |
| 53 | 69.85 | 104.71 | Shut-In(1) |
| 92 | 1174.70 | 105.53 | End Shut-In(1) |
| 93 | 33.51 | 105.25 | Open To Flow (2) |
| 141 | 37.78 | 105.90 | Shut-In(2) |
| 187 | 1128.54 | 106.73 | End Shut-In(2) |
| 190 | 1753.37 | 106.85 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 45.00 | V/SOCM 2%O 98%M | 0.36 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41917

DST#: 3

ATTN:

Test Start: 2011.02.10 @ 11:55:53

GENERAL INFORMATION:

Formation: **KC "C"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:06:53

Time Test Ended: 18:44:23

Test Type: Conventional Straddle

Tester: Brett Dickinson

Unit No: 47

Interval: **3720.00 ft (KB) To 3761.00 ft (KB) (TVD)**

Reference Elevations: 2318.00 ft (KB)

Total Depth: 4244.00 ft (KB) (TVD)

2308.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8319 Below (Straddle)

Press @RunDepth: psig @ 3766.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2011.02.10 End Date: 2011.02.10

Last Calib.: 2011.02.10

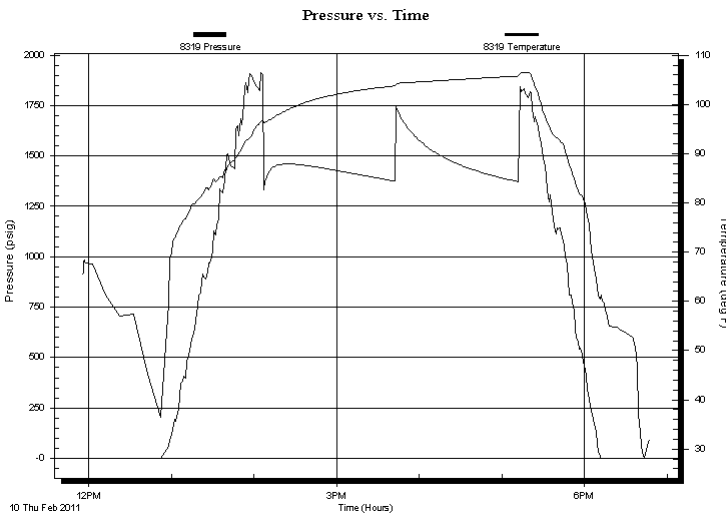
Start Time: 11:55:41 End Time: 18:47:05

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-2.25in blow died back to 2in
ISI-No blow
FF-surfaceblow died in 2min Flushtool surface blow died in 6min
FSI-No blow

PRESSURE SUMMARY



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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------|--------------|
| 45.00 | VSO2M 2%O 98%M | 0.36 |
| | | |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

DNOC Oil CO. Inc.

Crossland 1-16

PO Box 372
Hays Ks 67601

16-13-22, Trego, Ks

Job Ticket: 41917

DST#: 3

ATTN:

Test Start: 2011.02.10 @ 11:55:53

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: 48.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.79 in³

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 |
|--------------|----------------|---------------|
| 45.00 | VSOCM 2%O 98%M | 0.358 |

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

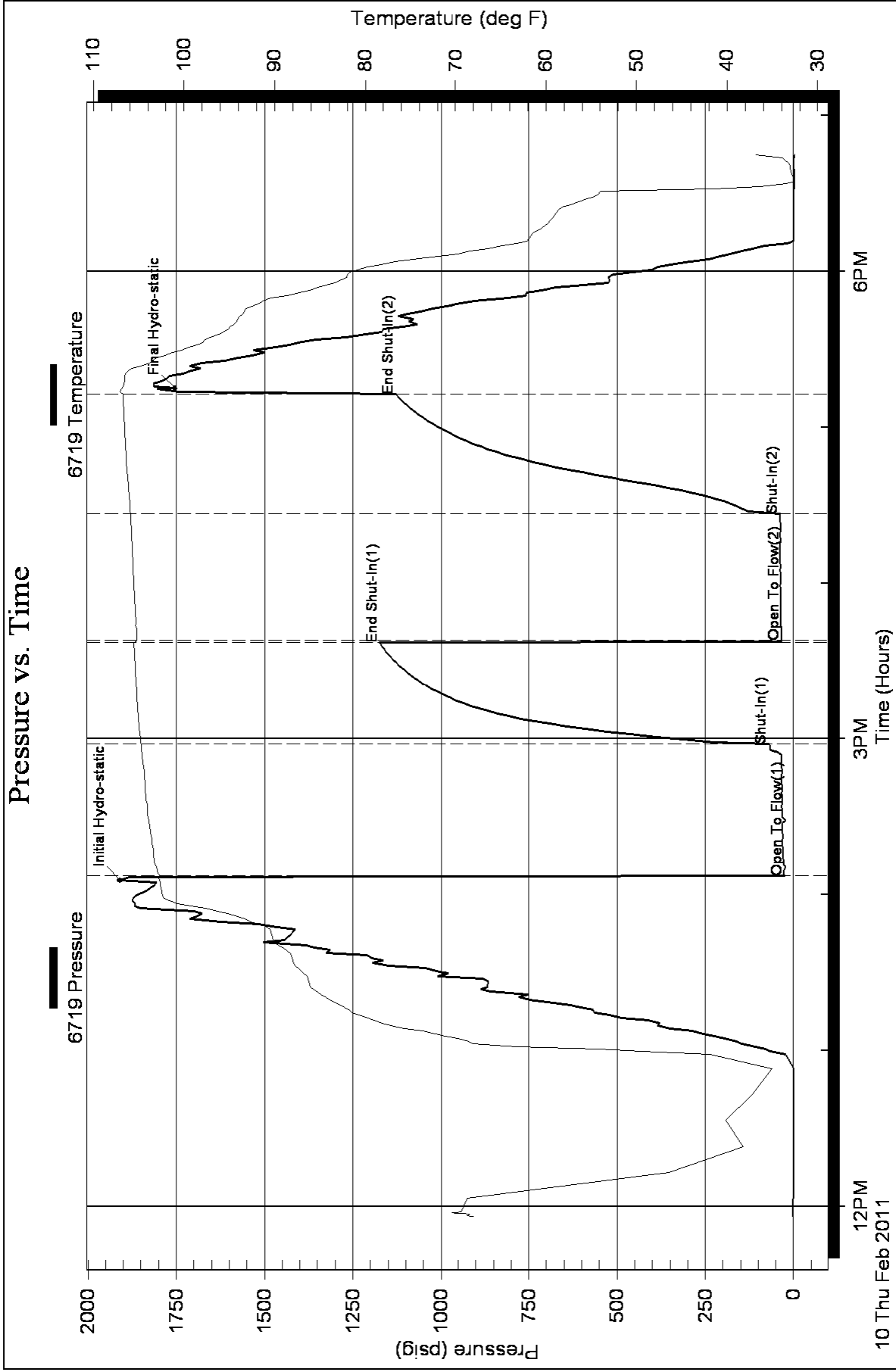
Num Gas Bombs: 0

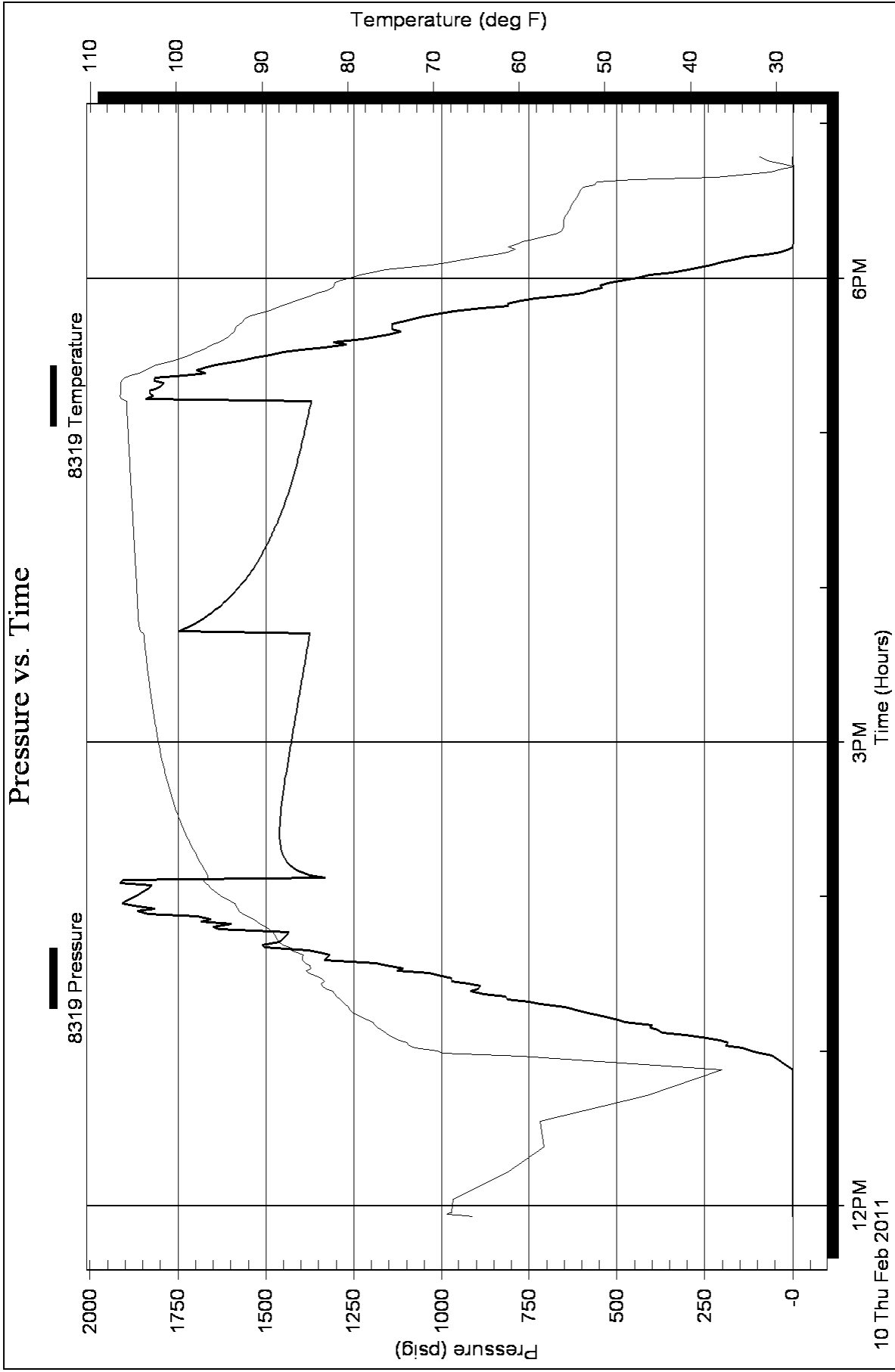
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





ALLIED CEMENTING CO., LLC. 034089

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Russell KS.

| | | | | | | | |
|--------------------------------|--------------------|--|---------------------|---------------------|-------------|--------------------------|---------------------------|
| DATE <i>1-31-2011</i> | SEC. <i>16</i> | TWP. <i>13</i> | RANGE <i>22</i> | CALLED OUT | ON LOCATION | JOB START <i>9:00 PM</i> | JOB FINISH <i>9:30 PM</i> |
| LEASE <i>Crossland</i> | WELL # <i>1-16</i> | LOCATION <i>OGallah KS. 3.52W 134S</i> | COUNTY <i>Trego</i> | STATE <i>KANSAS</i> | | | |
| OLD OR <u>NEW</u> (Circle one) | | <i>1/4E</i> | | | | | |

CONTRACTOR *Discovery DRLG Rig #1*
TYPE OF JOB *SURFACE*
HOLE SIZE *12 1/4* T.D. *224'*
CASING SIZE *8 5/8 NEW* DEPTH *224*
TUBING SIZE *23 #CSG* DEPTH
DRILL PIPE DEPTH
TOOL DEPTH
PRES. MAX MINIMUM
MEAS. LINE SHOE JOINT
CEMENT LEFT IN CSG.
PERFS.
DISPLACEMENT *13 1/4 / BBL*

OWNER
CEMENT
AMOUNT ORDERED *150sx Comm.*
2% GEL
3% CC

| | | | | |
|----------|------------------|---|--------------|----------------------|
| COMMON | <i>150</i> | @ | <i>13.50</i> | <i>2025.00</i> |
| POZMIX | | @ | | |
| GEL | <i>3</i> | @ | <i>20.25</i> | <i>60.75</i> |
| CHLORIDE | <i>5</i> | @ | <i>51.50</i> | <i>257.50</i> |
| ASC | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| HANDLING | <i>150</i> | @ | <i>2.25</i> | <i>337.50</i> |
| MILEAGE | <i>110/51.50</i> | | | <i>450.00</i> |
| | | | | TOTAL <i>3130.75</i> |

EQUIPMENT

PUMP TRUCK CEMENTER *Glenn*
417 HELPER *Ron*
BULK TRUCK
410 DRIVER *Woody - Nick*
BULK TRUCK
DRIVER

REMARKS:

*Ran 5 JTS 23 #CSG.
Set @ 224
Cement w/ 150sx com 342, Displace
13 1/4 / BBL H₂O. & Shot IN @ 300#
Cement DID CIRCULATE TO
SURFACE!*

THANK'S

CHARGE TO: *Downing & Nelson Oil*
STREET
CITY STATE ZIP

SERVICE

DEPTH OF JOB
PUMP TRUCK CHARGE *991.00*
EXTRA FOOTAGE @
MILEAGE *30* @ *7.00* *210.00*
MANIFOLD @
@
@
TOTAL *1201.00*

PLUG & FLOAT EQUIPMENT

@
@
@
@
@

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

ALLIED CEMENTING CO., LLC. 038691

Federal Tax I.D.# 20-5975804

ATTN: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Great Bend W

| | | | | | | | |
|---------------------------------------|--------------------|----------------|------------------------------------|------------|-------------|--------------------------|---------------------------|
| DATE <u>2-11-11</u> <u>2-10-11</u> | SEC. <u>16</u> | TWP. <u>13</u> | RANGE <u>22 W</u> | CALLED OUT | ON LOCATION | JOB START <u>2:15 AM</u> | JOB FINISH <u>3:15 AM</u> |
| LEASE <u>Crossland</u> | WELL # <u>1-16</u> | | LOCATION <u>8gall 28outh 2west</u> | | | COUNTY <u>T-220</u> | STATE <u>KS</u> |
| OLD OR <u>NEW</u> (Circle one) | | | <u>1 3/4 south East into</u> | | | | |

CONTRACTOR Discauey Risk

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 4243

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 DEPTH 1800

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

OWNER Downing & Nelson Oil Co

CEMENT
AMOUNT ORDERED 220SX 60/40 4% 60
1/4 flo seal

| | | | |
|----------|-----------------------|----------------|----------------|
| COMMON | <u>132</u> | @ <u>13.50</u> | <u>1782.00</u> |
| POZMIX | <u>88</u> | @ <u>7.55</u> | <u>664.40</u> |
| GEL | <u>8</u> | @ <u>20.25</u> | <u>162.00</u> |
| CHLORIDE | | @ | |
| ASC | | @ | |
| | <u>flaseal 55#</u> | @ <u>2.45</u> | <u>134.75</u> |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| | | @ | |
| HANDLING | <u>220</u> | @ <u>2.25</u> | <u>495.00</u> |
| MILEAGE | <u>220 x 30 x .10</u> | | <u>660.00</u> |
| TOTAL | | | <u>3898.15</u> |

EQUIPMENT

PUMP TRUCK CEMENTER wayne - D

366 HELPER Bob - Gaur

BULK TRUCK

371 DRIVER Kevin -

BULK TRUCK

_____ DRIVER _____

REMARKS:

1st Plug 1800 mix 25SX

2nd Plug 900 mix 100SX

3rd Plug 275 mix 40SX

4th Plug 40 mix 10SX

Rat mix 30SX

Mouse mix 15SX

SERVICE

| | | | |
|-------------------|-------------|---------------|----------------|
| DEPTH OF JOB | <u>1800</u> | | |
| PUMP TRUCK CHARGE | | | <u>991.00</u> |
| EXTRA FOOTAGE | | @ | |
| MILEAGE | <u>30</u> | @ <u>7.00</u> | <u>210.00</u> |
| MANIFOLD | | @ | |
| | | @ | |
| | | @ | |
| TOTAL | | | <u>1201.00</u> |

CHARGE TO: Downing + Nelson Oil Co.

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

| | | |
|--|---|--|
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | @ | |

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