



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

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> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i> | PRODUCTION INTERVAL: _____ _____ |
|--|---|---|

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Woolsey Operating Company, LLC |
| Well Name | KOBLITZ 2 |
| Doc ID | 1054812 |

All Electric Logs Run

| |
|--------------------------------------|
| |
| Array Compensated True Resistivity |
| Spectral Density Dual Spaced Neutron |
| Borehole Compensated Sonic Array |
| Microlog |

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Woolsey Operating Company, LLC |
| Well Name | KOBLITZ 2 |
| Doc ID | 1054812 |

Casing

| Purpose Of String | Size Hole Drilled | Size Casing Set | Weight | Setting Depth | Type Of Cement | Number of Sacks Used | Type and Percent Additives |
|-------------------|-------------------|-----------------|--------|---------------|----------------|----------------------|---|
| CONDUCTOR | 30 | 20 | 52.75 | 40 | GROUT | 4 | 4 YDS (NOT 5 SX) |
| SURFACE | 14.875 | 10.875 | 32.75 | 216 | CLASS A | 230 | 2% GEL, 3% CC |
| PRODUCTION | 7.875 | 5.5 | 15.5 | 4967 | 60/40 POZ | 50 | 4% GEL, 1/4# CELOFLAKE |
| PRODUCTION | 7.875 | 5.5 | 15.5 | 4967 | CLASS H | 140 | 10% salt, 10% Gypseal, 6# Korseal, 1/4# Celoflake, .8% fluid loss |

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



phone: 316-337-6200
fax: 316-337-6211
<http://kcc.ks.gov/>

Thomas E. Wright, Chairman
Ward Loyd, Commissioner

Corporation Commission

Sam Brownback, Governor

April 27, 2011

DEAN PATTISSON
Woolsey Operating Company, LLC
125 N MARKET STE 1000
WICHITA, KS 67202-1729

Re: ACO1
API 15-077-21729-00-00
KOBLOITZ 2
SE/4 Sec.31-33S-08W
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DEAN PATTISSON

ALLIED CEMENTING CO., LLC. 040630

Federal Tax I.D.# 20-5975804

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

SERVICE POINT: Medicine Lodge, KS

| | | | | | | | |
|--------------------------------|-----------------|---|-----------------|------------|----------------------|-----------------------------|------------------------------|
| DATE <u>12-28-10</u> | SEC. <u>31</u> | TWP. <u>33S</u> | RANGE <u>8W</u> | CALLED OUT | ON LOCATION | JOB START <u>1:30 pm</u> | JOB FINISH <u>2:00 pm</u> |
| LEASE <u>Kobitz</u> | WELL # <u>2</u> | LOCATION <u>K-2 Atter Rd, South 2 miles 1/2 E</u> | | | COUNTY <u>Harper</u> | STATE <u>KS</u> | |
| OLD OR <u>NEW</u> (Circle one) | | <u>W into</u> | | | | | |

CONTRACTOR Pulke Rsg #10
 TYPE OF JOB Surface
 HOLE SIZE 12 3/4 T.D. 218'
 CASING SIZE 10 3/4 DEPTH 216'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX 300 psi MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. 20'
 PERFS. _____
 DISPLACEMENT ~~19~~ 19 bbls H₂O

OWNER Woolsey operating
 CEMENT
 AMOUNT ORDERED 230 sk Class A 3% cat 2 1/2 gal

COMMON A 230 sk @ 15.45 3553.50
 POZMIX _____ @ _____
 GEL 5 sk @ 20.80 104.00
 CHLORIDE 7 sk @ 58.20 407.40
 ASC _____ @ _____

WELL FILE

Regulatory Correspondence
 Drilg / Comp Workovers
 Tests / Meters Operations

HANDLING 242 @ 2.40 582.00
 MILEAGE 242/10/25 605.00
 TOTAL 5221.90

EQUIPMENT

PUMP TRUCK CEMENTER Mark Thomasch
 # 414/302 HELPER Ron Gilley
 BULK TRUCK
 # 364 DRIVER Raymond R
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:

Bk circ with Rsg, Hookup to pump truck
 pump 3 bbls H₂O ahead mix 230 sk cement shut down
 pump ~~19~~ bbls H₂O disp. Start in 20' cement in pipe
 cement did circulate.

SERVICE

DEPTH OF JOB 218
 PUMP TRUCK CHARGE 1018.00
 EXTRA FOOTAGE _____ @ _____
 MILEAGE 25 @ 7.00 175.00
 MANIFOLD _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL 1193.00

CHARGE TO: Woolsey
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____

TOTAL _____

To Allied Cementing Co., 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.

SALES TAX (If Any) _____
 TOTAL CHARGES 5221.90
 DISCOUNT _____ IF PAID IN 30 DAYS

PRINTED NAME Allen F. Dick
 SIGNATURE [Signature]

ALLIED CEMENTING CO., LLC. 040635

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

| | | | | | | | |
|--------------------------------|----------------|--------------------------------------|-------------------|------------------------|-----------------|--------------------------|---------------------------|
| DATE <i>1-9-11</i> | SEC. <i>31</i> | TWP. <i>33S</i> | RANGE <i>08 W</i> | CALLED OUT | ON LOCATION | JOB START <i>5:30 am</i> | JOB FINISH <i>2:00 am</i> |
| LEASE <i>Kobitz</i> | WELL# <i>2</i> | LOCATION <i>K-2 & Africa Rd.</i> | | COUNTY <i>Hopewell</i> | STATE <i>KS</i> | | |
| OLD OR <u>NEW</u> (Circle one) | | <i>2 S, 1/2 E. Ninto</i> | | | | | |

CONTRACTOR *Duke Drilling R/B #10*

TYPE OF JOB *Production*

| | |
|-------------------------------------|-----------------------|
| HOLE SIZE <i>7 7/8</i> | T.D. <i>5158</i> |
| CASING SIZE <i>5 1/2</i> | DEPTH <i>4966</i> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX | MINIMUM |
| MEAS. LINE | SHOE JOINT <i>42'</i> |
| CEMENT LEFT IN CSG. <i>42'</i> | |
| PERFS. | |
| DISPLACEMENT <i>118 bbls 2% KCL</i> | |

EQUIPMENT

| | |
|-----------------------------|---------------------------|
| PUMP TRUCK # <i>414/302</i> | CEMENTER <i>not there</i> |
| BULK TRUCK # <i>353/290</i> | DRIVER <i>Raymond R</i> |
| BULK TRUCK # | DRIVER |

OWNER *Woolsey operating*

CEMENT

AMOUNT ORDERED *90sx 60:40:4% gel*
160 sx class H + 10% salt + 15% Exp
+ 6# Kolseal + 1/4" F/lo seal + .8% FL-160

| | | |
|--------------------------|----------------|----------------|
| COMMON <i>54</i> sx | @ <i>15.45</i> | <i>834.30</i> |
| POZMIX <i>36</i> sx | @ <i>8.00</i> | <i>288.00</i> |
| GEL <i>3</i> sx | @ <i>20.00</i> | <i>62.40</i> |
| CHLORIDE | @ | |
| ASC | @ | |
| <i>160</i> sx | @ <i>16.75</i> | <i>2680.00</i> |
| <i>Gypseal 15</i> sx | @ <i>29.20</i> | <i>438.00</i> |
| <i>Salt 18</i> sx | @ <i>12.00</i> | <i>216.00</i> |
| <i>Kolseal 960</i> # | @ <i>.89</i> | <i>854.40</i> |
| <i>floseal 40</i> # | @ <i>2.50</i> | <i>100.00</i> |
| <i>FI-160 120</i> # | @ <i>13.30</i> | <i>1596.00</i> |
| <i>KCL 17</i> Gals | @ <i>31.25</i> | <i>531.25</i> |
| | @ | |
| HANDLING <i>309</i> | @ <i>2.40</i> | <i>741.60</i> |
| MILEAGE <i>309/10/20</i> | | <i>618.00</i> |
| TOTAL | | <i>8959.95</i> |

REMARKS:

Break circulation with Rig pump ball through pump 25 sx 60:40:4 for Rat hole
pump 15 sx 60:40:4 for mousehole
pump 50 sx 60:40:4 scavenger
pump 160 sx class H. Shut down, wash pump & lines. 0.75% 118 bbls 2% KCL bump plus 1100 psi - 1800 psi plus shell

CHARGE TO: *Woolsey*

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., 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 *MIKE THARP*

SIGNATURE *[Signature]*

SERVICE

| | |
|----------------------------------|-----------------------------|
| DEPTH OF JOB <i>4966'</i> | |
| PUMP TRUCK CHARGE <i>2185.00</i> | |
| EXTRA FOOTAGE @ | |
| MILEAGE <i>20</i> | @ <i>7.00</i> <i>140.00</i> |
| MANIFOLD @ | |
| | @ |
| | @ |
| TOTAL <i>2325.00</i> | |

5 1/2 PLUG & FLOAT EQUIPMENT

| | | |
|--------------------------|----------------|---------------|
| <i>18</i> scratches | @ <i>23.94</i> | <i>430.92</i> |
| <i>13</i> forbitizers | @ <i>40.60</i> | <i>527.80</i> |
| <i>1</i> Air guard shoe | @ | <i>214.00</i> |
| <i>1</i> Latch down plug | @ | <i>163.00</i> |
| | @ | |
| TOTAL <i>1336.72</i> | | |

SALES TAX (If Any) _____

TOTAL CHARGES *[Circled]*

DISCOUNT _____ IF PAID IN 30 DAYS



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Woolsey Operating Co
 125 N Market Ste 1000
 Wichita KS 67202
 ATTN: Bill Klaver

Koblitz # 2
31-33S-8W Harper
 Job Ticket: 039270 **DST#: 1**
 Test Start: 2011.01.04 @ 11:27:41

GENERAL INFORMATION:

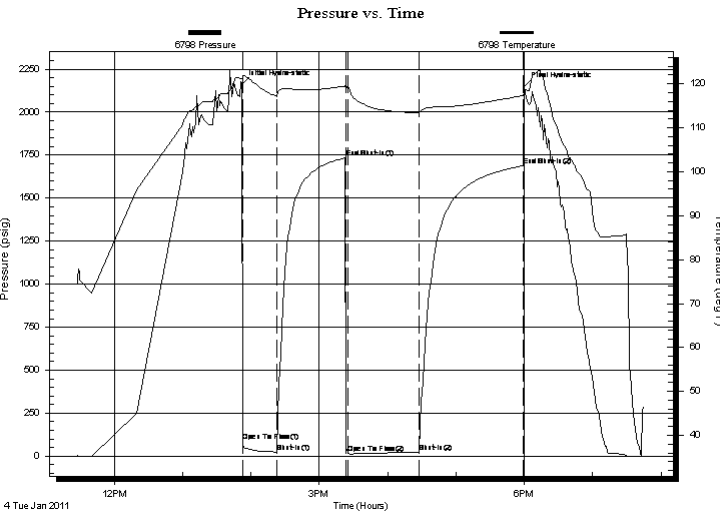
Formation: **Ft Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:52:26
 Time Test Ended: 19:45:41
 Interval: **4372.00 ft (KB) To 4404.00 ft (KB) (TVD)**
 Total Depth: 4404.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole
 Tester: Leal Cason
 Unit No: 45
 Reference Elevations: 1312.00 ft (KB)
 1301.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 22.00 psig @ 4373.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2011.01.04 End Date: 2011.01.04 Last Calib.: 2011.01.04
 Start Time: 11:27:42 End Time: 19:45:41 Time On Btm: 2011.01.04 @ 13:51:56
 Time Off Btm: 2011.01.04 @ 17:59:56

TEST COMMENT: IF: Strong Blow , BOB in 20 Seconds, GTS in 22 Minutes, Guaged Gas & Caught Sample
 IS: Bled Off, No Blow back
 FF: Strong Blow , BOB & GTS Immediate, Guaged Gas
 FS: Bled Off, Blow back Built to 2 inc



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2161.47 | 121.20 | Initial Hydro-static |
| 1 | 88.67 | 121.01 | Open To Flow (1) |
| 31 | 24.66 | 117.17 | Shut-In(1) |
| 91 | 1735.17 | 119.50 | End Shut-In(1) |
| 93 | 18.30 | 119.47 | Open To Flow (2) |
| 156 | 22.00 | 113.40 | Shut-In(2) |
| 247 | 1688.25 | 117.31 | End Shut-In(2) |
| 248 | 2150.24 | 118.97 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 0.00 | 4354 GIP | 0.00 |
| 20.00 | GCM 2%G 98%M | 0.28 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.13 | 7.00 | 8.05 |
| Last Gas Rate | 0.13 | 7.00 | 8.05 |
| Max. Gas Rate | 0.13 | 7.00 | 8.05 |



TRILOBITE
TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039270

DST#: 1

ATTN: Bill Klaver

Test Start: 2011.01.04 @ 11:27:41

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: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 0.00 | 4354 GIP | 0.000 |
| 20.00 | GCM 2%G 98%M | 0.281 |

Total Length: 20.00 ft

Total Volume: 0.281 bbl

Num Fluid Samples: 1

Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039270

DST#: 1

ATTN: Bill Klaver

Test Start: 2011.01.04 @ 11:27:41

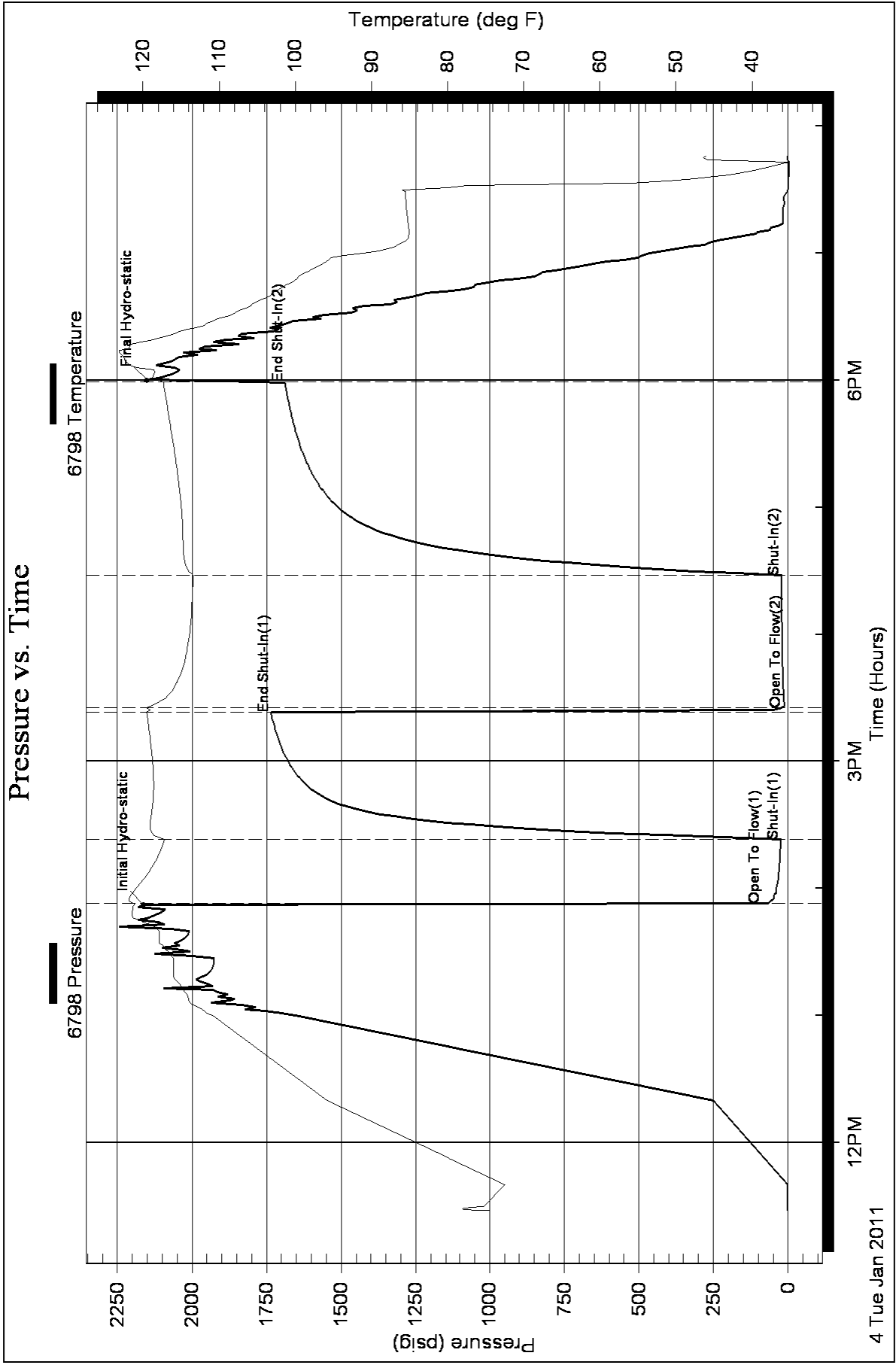
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 25 | 0.13 | 7.00 | 8.05 |
| 1 | 30 | 0.13 | 7.00 | 8.05 |
| 2 | 10 | 0.13 | 4.00 | 6.92 |
| 2 | 20 | 0.13 | 5.00 | 7.30 |
| 2 | 30 | 0.13 | 6.00 | 7.67 |
| 2 | 40 | 0.13 | 6.00 | 7.67 |
| 2 | 50 | 0.13 | 6.50 | 7.86 |
| 2 | 60 | 0.13 | 7.00 | 8.05 |

Pressure vs. Time





**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste 1000
Wichita KS 67202
ATTN: Bill Klaver

Koblitz # 2
31-33S-8W Harper
Job Ticket: 039271 **DST#: 2**
Test Start: 2011.01.05 @ 12:03:14

GENERAL INFORMATION:

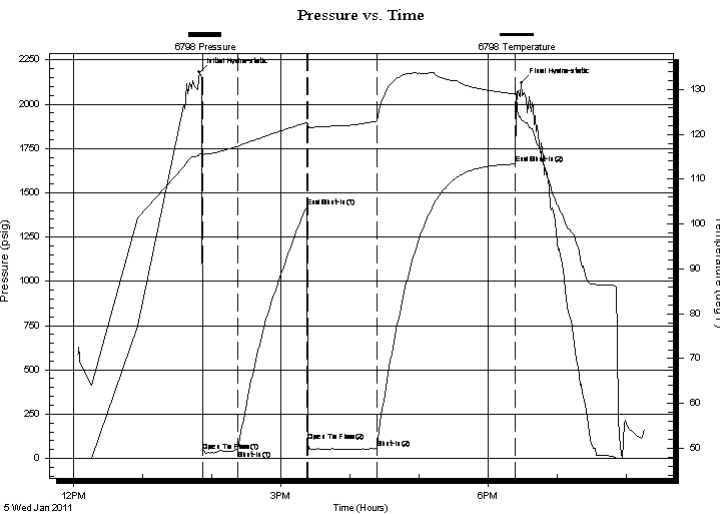
Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 13:51:44
Time Test Ended: 20:16:29
Interval: **4387.00 ft (KB) To 4535.00 ft (KB) (TVD)**
Total Depth: 4535.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1312.00 ft (KB)
1301.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798

Inside

Press @ Run Depth: 54.99 psig @ 4388.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.05 End Date: 2011.01.05 Last Calib.: 2011.01.05
Start Time: 12:03:15 End Time: 20:16:29 Time On Btm: 2011.01.05 @ 13:49:14
Time Off Btm: 2011.01.05 @ 18:29:14

TEST COMMENT: IF: Strong Blow , BOB in 3 minutes
IS: Bled Off , Blow back Built to BOB in 15 minutes
FF: Strong Blow , BOB Immediate, GTS in 5 minutes, Guaged Gas & Caught Sample
FS: Bled Off , Blow back Built to 2



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2179.51 | 115.62 | Initial Hydro-static |
| 3 | 38.25 | 115.19 | Open To Flow (1) |
| 33 | 45.72 | 117.33 | Shut-In(1) |
| 94 | 1418.94 | 122.60 | End Shut-In(1) |
| 94 | 95.86 | 122.24 | Open To Flow (2) |
| 154 | 54.99 | 122.96 | Shut-In(2) |
| 275 | 1662.32 | 128.97 | End Shut-In(2) |
| 280 | 2119.14 | 123.24 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------|--------------|
| 0.00 | 4282 GIP | 0.00 |
| 93.00 | GCM 4%G 96%M | 1.30 |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 6.00 | 32.52 |
| Last Gas Rate | 0.25 | 6.00 | 32.52 |
| Max. Gas Rate | 0.25 | 6.00 | 32.52 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039271

DST#: 2

ATTN: Bill Klaver

Test Start: 2011.01.05 @ 12:03:14

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: 64.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------|---------------|
| 0.00 | 4282 GIP | 0.000 |
| 93.00 | GCM 4%G 96%M | 1.305 |

Total Length: 93.00 ft Total Volume: 1.305 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039271

DST#: 2

ATTN: Bill Klaver

Test Start: 2011.01.05 @ 12:03:14

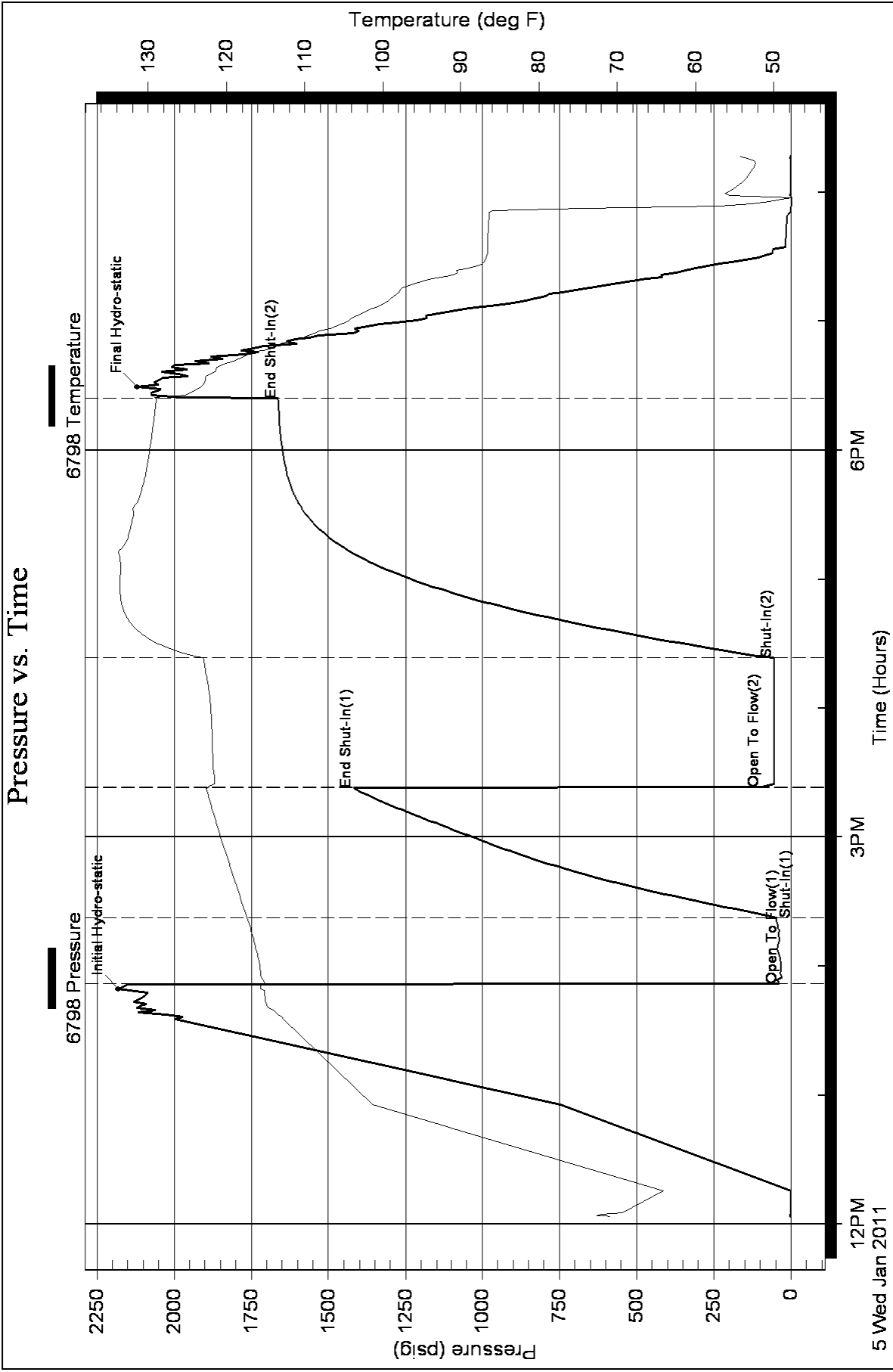
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 2 | 10 | 0.25 | 6.00 | 32.52 |
| 2 | 20 | 0.25 | 5.50 | 31.73 |
| 2 | 30 | 0.25 | 5.00 | 30.94 |
| 2 | 40 | 0.25 | 5.00 | 30.94 |
| 2 | 50 | 0.25 | 5.50 | 31.73 |
| 2 | 60 | 0.25 | 6.00 | 32.52 |

Pressure vs. Time





**TRILOBITE
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DRILL STEM TEST REPORT

Woolsey Operating Co
125 N Market Ste 1000
Wichita KS 67202
ATTN: Bill Klaver

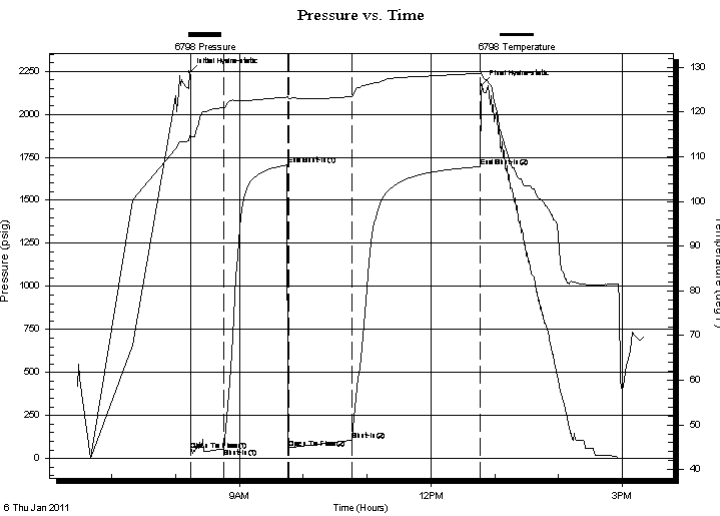
Koblitz # 2
31-33S-8W Harper
Job Ticket: 039272 **DST#: 3**
Test Start: 2011.01.06 @ 06:27:54

GENERAL INFORMATION:

Formation: **Mississippi**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 08:14:24
Time Test Ended: 15:21:24
Interval: 4536.00 ft (KB) To 4570.00 ft (KB) (TVD)
Total Depth: 4570.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good
Test Type: Conventional Bottom Hole
Tester: Leal Cason
Unit No: 45
Reference Elevations: 1312.00 ft (KB)
1301.00 ft (CF)
KB to GR/CF: 11.00 ft

Serial #: 6798 Inside
Press @ Run Depth: 106.14 psig @ 4537.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2011.01.06 End Date: 2011.01.06 Last Calib.: 2011.01.06
Start Time: 06:27:55 End Time: 15:21:24 Time On Btm: 2011.01.06 @ 08:12:54
Time Off Btm: 2011.01.06 @ 12:47:54

TEST COMMENT: IF: Strong Blow , BOB in 7 minutes
IS: Bled Off, 2 inch Blow back
FF: Strong Blow , BOB Immediate, GTS in 20 minutes, Guaged Gas & Caught Sample
FS: Bled Off, 1 inch Blow back



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2243.62 | 114.41 | Initial Hydro-static |
| 2 | 45.70 | 114.36 | Open To Flow (1) |
| 33 | 56.98 | 120.94 | Shut-In(1) |
| 93 | 1705.13 | 123.37 | End Shut-In(1) |
| 94 | 61.75 | 122.95 | Open To Flow (2) |
| 153 | 106.14 | 123.49 | Shut-In(2) |
| 274 | 1695.94 | 128.72 | End Shut-In(2) |
| 275 | 2170.30 | 128.42 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------------|--------------|
| 0.00 | 4294 GIP | 0.00 |
| 93.00 | GOWCM 40%G 10%O 12%W 38%M | 1.30 |
| 93.00 | OGCM 40%G 10%O 50%M | 1.30 |
| 50.00 | GOCM 10%G 30%O 60%M | 0.70 |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.25 | 4.00 | 29.35 |
| Last Gas Rate | 0.25 | 5.00 | 30.94 |
| Max. Gas Rate | 0.25 | 5.00 | 30.94 |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039272

DST#: 3

ATTN: Bill Klaver

Test Start: 2011.01.06 @ 06:27:54

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:

22000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.78 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 0.20 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|---------------------------|----------------|
| 0.00 | 4294 GIP | 0.000 |
| 93.00 | GOWCM 40%G 10%O 12%W 38%M | 1.305 |
| 93.00 | OGCM 40%G 10%O 50%M | 1.305 |
| 50.00 | GOCM 10%G 30%O 60%M | 0.701 |

Total Length: 236.00 ft

Total Volume: 3.311 bbl

Num Fluid Samples: 1

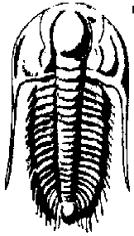
Num Gas Bombs: 0

Serial #:

Laboratory Name: Caraway

Laboratory Location: Liberal, KS

Recovery Comments:



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Woolsey Operating Co

Koblitz # 2

125 N Market Ste 1000
Wichita KS 67202

31-33S-8W Harper

Job Ticket: 039272

DST#: 3

ATTN: Bill Klaver

Test Start: 2011.01.06 @ 06:27:54

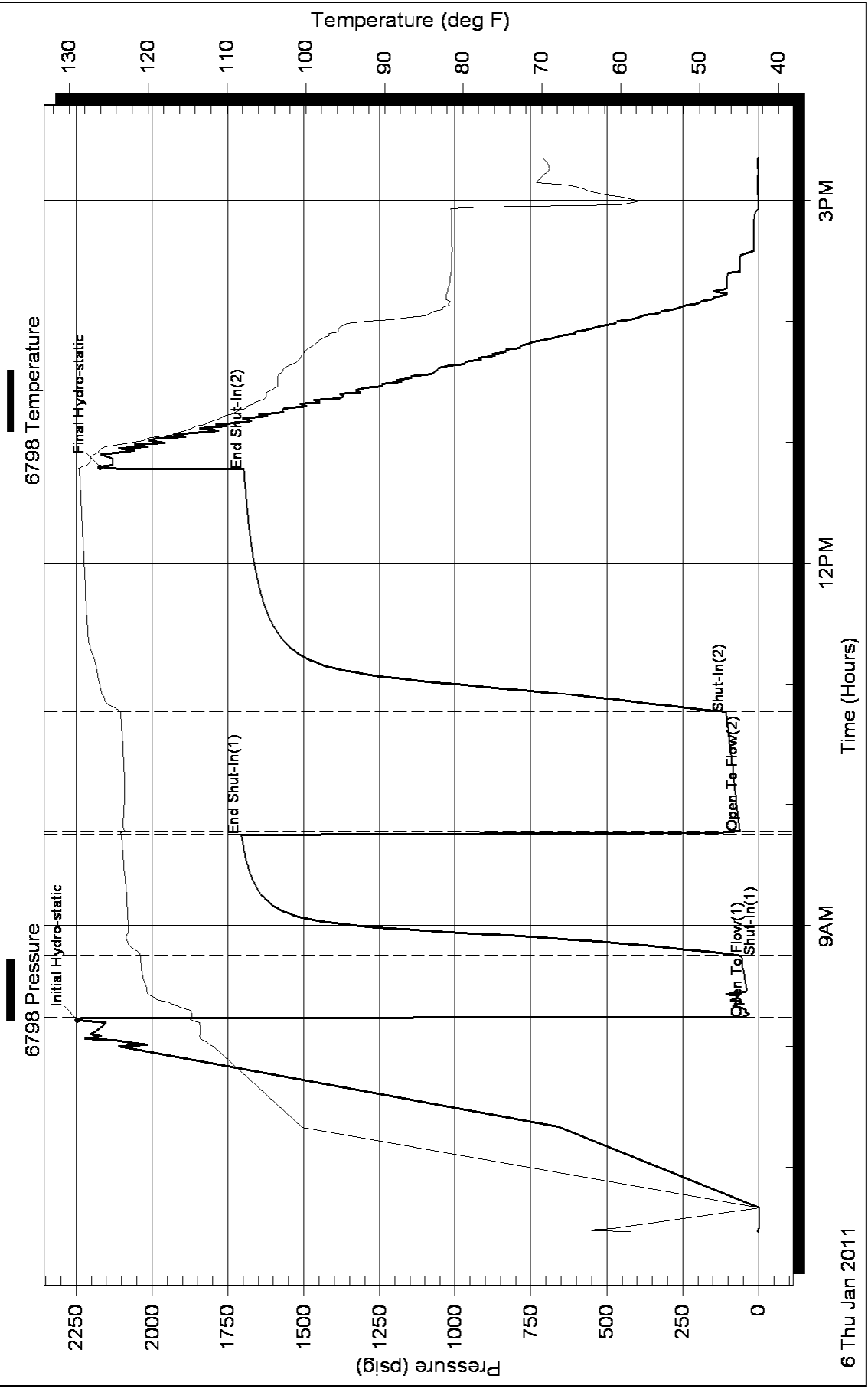
Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

| Flow Period | Elapsed Time | Choke (mm) | Pressure (kPaa) | Gas Rate (m ³ /d) |
|-------------|--------------|------------|-----------------|------------------------------|
| 2 | 30 | 0.25 | 4.00 | 29.35 |
| 2 | 40 | 0.25 | 4.00 | 29.35 |
| 2 | 50 | 0.25 | 5.00 | 30.94 |
| 2 | 60 | 0.25 | 5.00 | 30.94 |

Pressure vs. Time





Woolsey Operating Company, LLC

Scale 1:240 (5"=100') Imperial

Measured Depth Log

Well Name: Koblitz #2
Location: SE SW SE
License Number: 15-077-21729
Spud Date: December 27, 2010
Surface Coordinates: 330' FSL & 1650' FEL Sec 31 Twp 33S-Rge 8W
Field: Hibbard NE
Bottom Hole Verticle Hole
Coordinates:
Ground Elevation (ft): 1301' K.B. Elevation (ft): 1312'
Logged Interval (ft): Surface To: 5156 Total Depth (ft): 5158'
Formation: Total Depth in Arbuckle
Type of Drilling Fluid: Chemical Displaced at 3090'
Region: Harper County, KS
Drilling Completed: January 9, 2011
Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Woolsey Operating Company, LLC
Address: 125 N. Market, Suite 1000
Wichita, KS 67202

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Set 1 joint 20" X 52.75# conductor pipe at 40', ran 5 joints of new 10 3/4" X 32.75# casing to 216' KB (tally 205') with 230 sx Class A, 2% gel, 3% cc. Cement did circulate.
Production Casing: 5 1/2"

Deviation Surveys: 1/2 at 218', 1/2 at 691', 1/2 at 1193', 1/2 at 1697', 1/2 at 2194', 1/4 at 2728', 1/2 at 3195', 1/4 at 3849', 3/4 at 4351', 3/4 at 4404', 1 at 5158'.

Pipe Strap @ 4404', strap .50' short to the board.

Duke Drilling Rig 10 Bit Record:

#1 14 3/4" Smith RR in at 40' out at 218'

#2 7 7/8" Varrel HE 29 in at 218' out at 5158', 4940'/154 hours, 32' per hour.

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud Co. Brad Bortz, Jason Whiting, Engineers

DSTs: Trilobite Testing Inc. Leal Cason, Tester

OH Logs: Halliburton, Dual Induction Laterolog w/SP, CNL-FDC w/PE and Caliper, Microlog, Borehole Compensated Sonic Log.

DSTs

DST #1 Fort Scott. 4372'-4404', 30"-60"-60"-90". Strong blow BOB in 20 seconds, GTS in 22 minutes. Rec: 20' GCM (2%G, 98%M). IHP 2161, IFP 88-24, ISIP 1735, FFP 18-22, FSIP 1688, FHP 2150. BHT 117 degrees. IFP: 25-30" 8.0 MCF. FFP 10" 6.9 MCF, 20" 7.2 MCF, 30-40" 7.6 MCF, 50" 7.8 MCF, 60" 8.0 MCF.


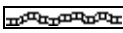
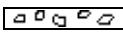
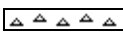
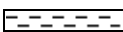
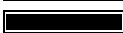
DST #2 Mississippi, 4387'-4535', 30"-60"-60"-120". SB BOB in 3 minutes, GTS in 35 minutes. Rec: 4282' GIP, 93' GCM (4%G, 96%M). IHP 2179, IFP 38-45, ISIP 1428, FFP 95-54, FSIP 1662, FHP 2119. BHT 129 degrees. FFP: 10" 32.5 MCF, 20" 31.7 MCF, 30-40" 30.9 MCF, 50" 31.7 MCF, 60" 32.5 MCF.







DST #3 Mississippi, 4536'-4570', 30"-60"-60"-120". SB BOB in 7 minutes, GTS in 50 minutes. Rec" 4294' GIP, 50' GOCM (10%G, 30%O, 60%M), 93' OGCM (40%G, 10%O, 50%M), 93' GOWCM (40%G, 10%O, 12%W, 38%M). IHP 2243, IFP 45-56, ISIP 1705, FFP 61-106, FSIP 1695, FHP 2170. BHT 120. FFP: 30-40" 29.3 MCF, 50-60" 30.9 MCF.


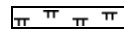
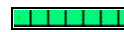
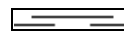


CREWS






**Joe Livingston, Tool Pusher
Alex Ordonez, Mornings
Scott Edwards, Days
Colby Crawford, Evening
Ron Burns, Relief**

ROCK TYPES

 Anhy
 Bent
 Brec
 Cht
 Clyst
 Coal

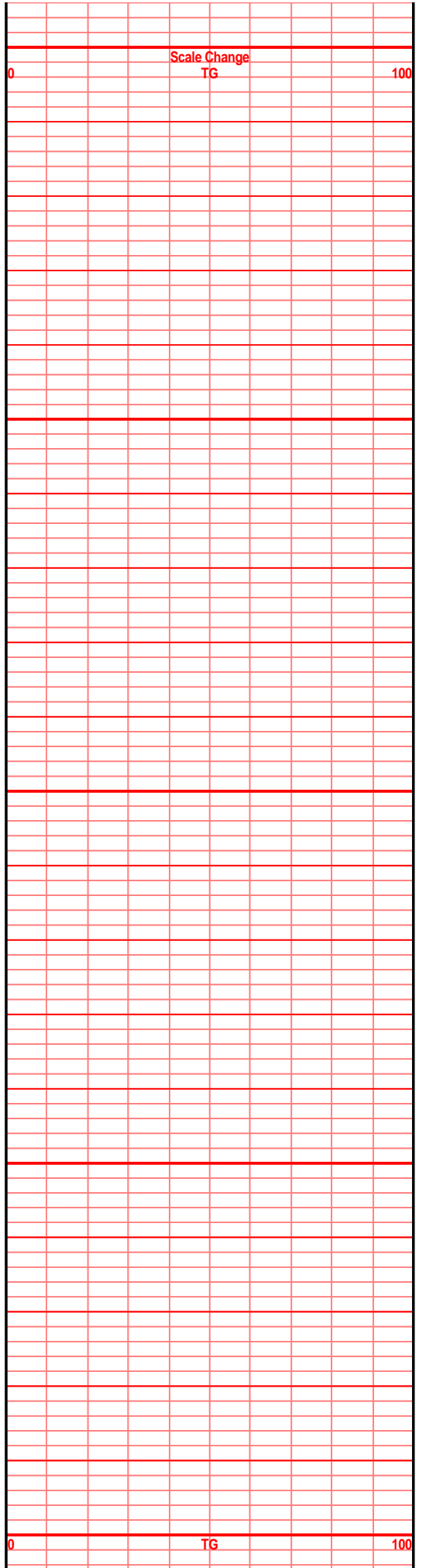
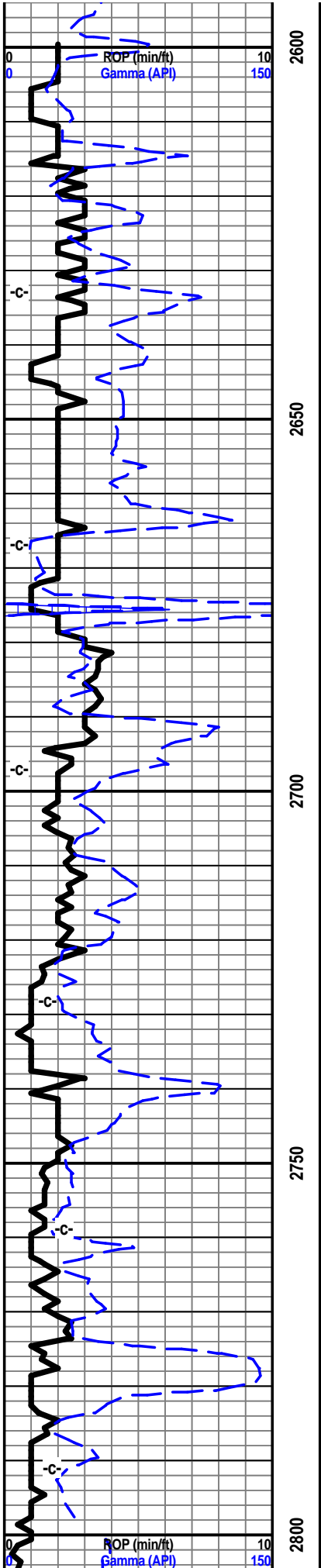
 Congl
 Sdy dolo
 Shy dolo
 Dol
 Gyp
 Sdy lmst

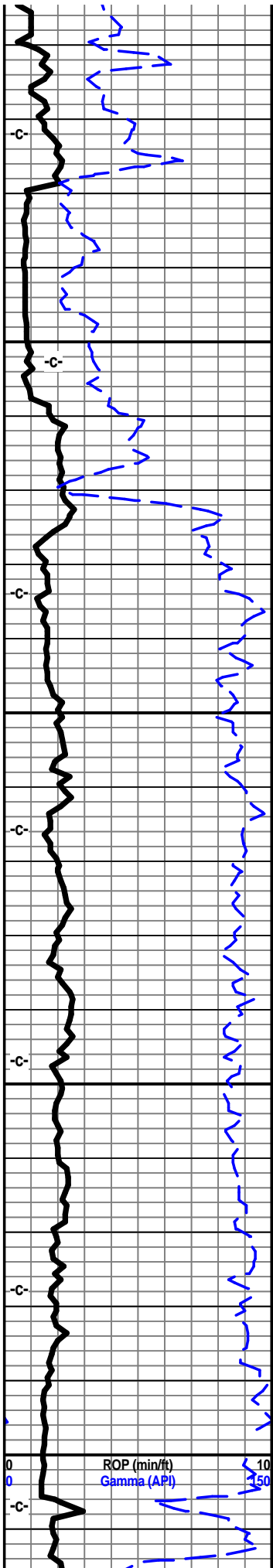
 Lmst
 Mrlst
 Salt
 Shale
 Sltst
 Ss

 Black sh
 Gry sh
 Shale
 Shyslst
 Sltysl

January 3, 2011 Trip, hole in DP at 4106'
 January 4, 2011 Drilling at 4400'
 January 5, 2011 CFS at 4525'
 January 6, 2011 DST #3 at 4570'
 January 7, 2011 Drilling at 4738'
 January 8, 2011 Drilling at 5025'
 January 9, 2011 Logging

- E-Logs Tops:**
- Herington 1549 (-237)
 - Onaga 2354 (-1042)
 - Wabaunsee 2406 (-1094)
 - LeCompton 3139 (-1827)
 - Kanwaka 3171 (-1859)
 - Heebner 3376 (-2064)
 - Toronto 3391 (-2079)
 - Douglas 3408 (-2096)
 - Douglas Sand 3434 (-2122)
 - Haskell 3689 (-2377)
 - Stalnaker 3732 (-2420)
 - Quindaro 3976 (-2664)
 - Kansas City 'F' 3984 (-2672)
 - Kansas City 'Iola' 4002 (-2690)
 - Kansas City 'Dennis' 4075 (-2763)
 - Stark 4128 (-2816)
 - Kansas City 'Swope' 4151 (-2839)
 - Hushpuckney 4174 (-2862)
 - Kansas City 'Hertha' 4183 (-2871)
 - B/Kansas City 4232 (-2920)
 - Altamont 4289 (-2977)
 - Pawnee 4347 (-3035)
 - Fort Scott 4378 (-3066)
 - Cherokee Group 4394 (-3081)
 - Mississippi 4515 (-3203)
 - Compton 4808 (-3496)
 - Kinderhook 4814 (-3502)
 - Woodford 4872 (-3560)
 - Viola 4899 (-3587)
 - Simpson Group 4953 (-3641)
 - Wilcox 4966 (-3654)
 - McLish Shale 5028 (-3716)
 - McLish Sand 5103 (-3791)
 - Arbuckle 5113 (-3801)
 - LTD 5156 (-3844)





2850

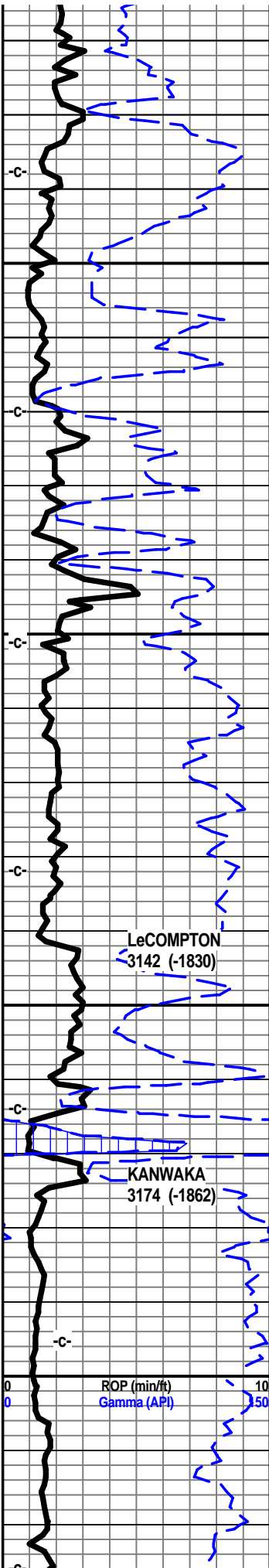
2900

2950

3000

6 pm 2822'
Friday
Dec. 31, 2010

0 TC 3000' 12/31/2010
Midnight 1/1/11 100



3050

3100

3150

3200

ROP (min/ft)
Gamma (API)

- Oil and Gas Show Legend**
- ☒ Gas Show
 - Even Stain and Saturation
 - ◐ Spotted Stain and Saturation
 - Questionable Uneven Shows
 - ◑ Dead or Gilsonitic Show

lst tan gry vf xln gritty tr sndy soft chlky, shls, gry soft gritty

shl gry, lst gry tan vf xln gran blk soft

shl gry med gry silty sft gritty

shl gry med gry soft, gritty sndy

shl gry med gry soft gritty

shl gry med gry soft silty

lst tan gry brn mott f sli med xln gran blk dns arg, ang, calc fill

shl gry, lst tan brn mott f xln gran blk dns, sub chlky, calc fill

shl gry med gry, lst tan brn gry mott f xln blk dns hrs calc fill

☒ shl gry gritty, shl blk semi carb gas bubs

lst tan brn vf xln blk dns hrd, shl, gry soft gran

shl gry lt gry silty soft gritty

shl gry med gry silty tr gritty, soft

shl gry med gry soft silty tr sndy gritty

shl gry med gry soft silty gritty mic, blk carb flks

new mud up

Displace mud
3090'
5 am

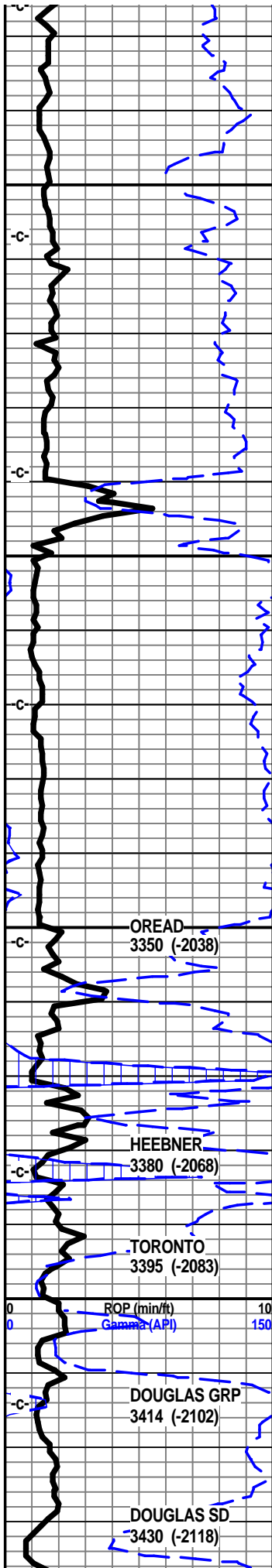
Mud Co. 3105'
wt. 8.8 vis. 75
wl. 9.2 chl. 3,000
lcm. 2# bbl

7 am 3140'
Saturday
Jan. 1, 2011
Cold-8 degrees

wt. 8.8 vis. 50
lcm. 2# bbl

TG

100



shl gry med gry silty tr sndy gritty mic, much blk carb flks

shl gry med gry blk ang pcs, sndy, gritty mic, blk carb flks

shl gry md gry silty blk, mic, tr blk acrb flks

shl gr med gry silty blk pcs, blk carb flks

shl gry med gry silty, mic, blk carb flks

shl gry med gry silty blk soft pcs

shl gry med gry aa, lst tan brn f med xln blk dns ang hrd, calc fill

shl gry drk gry soft silty gran

shl gry drk gry silty soft gran

shl gry med drk gry silty soft

shl gry med-drk gry silty soft gran

shl gry med gry soft silty easy..

lst tan drk crm brn f vf xln dna hrd blk, gritty text, tr sub chlky calc fill arg

lst tan lt brn brn f vf xln dn shrd blk ang dns ang arg, foss frags, shls gry med gry

shl gry blk carb, wxy grsy, gas bubs, lst tan brn vf xln dns hrd blk ang calc fill

lst tan brn f vf xln dns hrd blk ang arg, calc fill, shl gry drk gry blk carb, wxy grsy, gas bubs

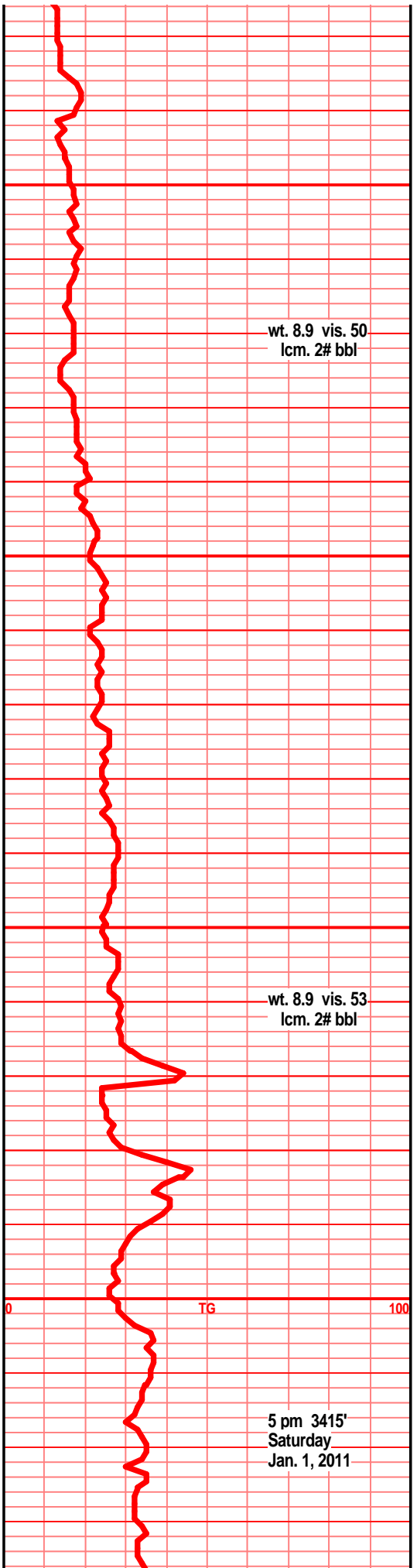
shl gr lt gry calc, fiss, blk ang pcs,

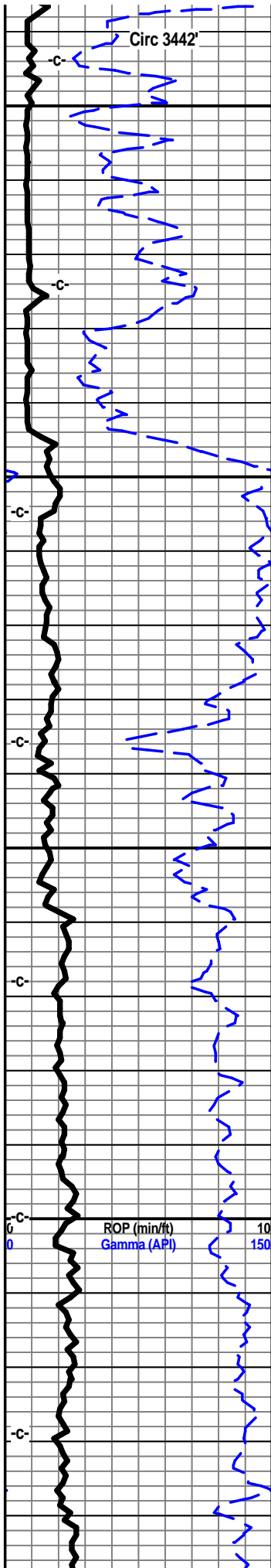
lst wht, buff tan f xln blk ang pcs, sub chlky micro foss, gran, soft, tr calc fill

lst wht off wht, buff tan f vf xln gran, sub chlky micro foss frags, calc fill, soft gran in prt.

shl gry, gry/green, soft silty gritty

sst off wht lt gry f vf grnd sub ang, prly srted, prly cem, calc cem, silty, arg, clay fill tr mic tr olau. tr blk carb flks.





3450

3500

3550

3600



gray, tan, green, mic, sst off wht lt gry clstrs, f vf grnd sub ang, prly cem, sub fria, prly srted, arg, clay fill, min fill, tr mic, tr glau, tite dns

sst tan off wht tr lt gry clstrs, f vf grnd, sub ang, ang grns, prly srted, fair cem, sub fria, calc cem, min fill, clay fill arg, tr glau, tite

sst crm tan tr lt gry f vf grnd clstrs, sub ang/ang grns, prly srted, fair/well cem, calc cem, sub fria, blk ang clstrs, min fill, tr glau, clay fill arg in prt

sst tan crm f vf grnd sub ang/ang clstrs, blk ang clstrs, prly srted, f/well cem, calc cem min fill, clay fill, arg in prt

shl grm gry green, silty sndy, snd grn inclu, tr mic,

shl gry med gry green silty sndy sst tan gry f grnd sub ang/ang, prly srted, w/cem, clay fill arg

shl gry med gry/green silty sndy gritty mic in prt

shl gry med gry silty gritty, mic sndy gritty, sst tan gry f grnd sub ang ang grns, arg silty mic

shl gry med gry silty mic tr sndy gritty, sst tan gry vf grnd shly clstrs, sub ang grnd, arg, mic, blk carb fill

shl gry lt gry mic sndy gritty, sst gry tan vf grnd sub ang arg silty mic blk carb fill

shl gry mic gran gritty sndy, mic blk carb fill

shl gry med gry, silty gritty mic

shl gry med gry blk ang pcs

shl gry med gry

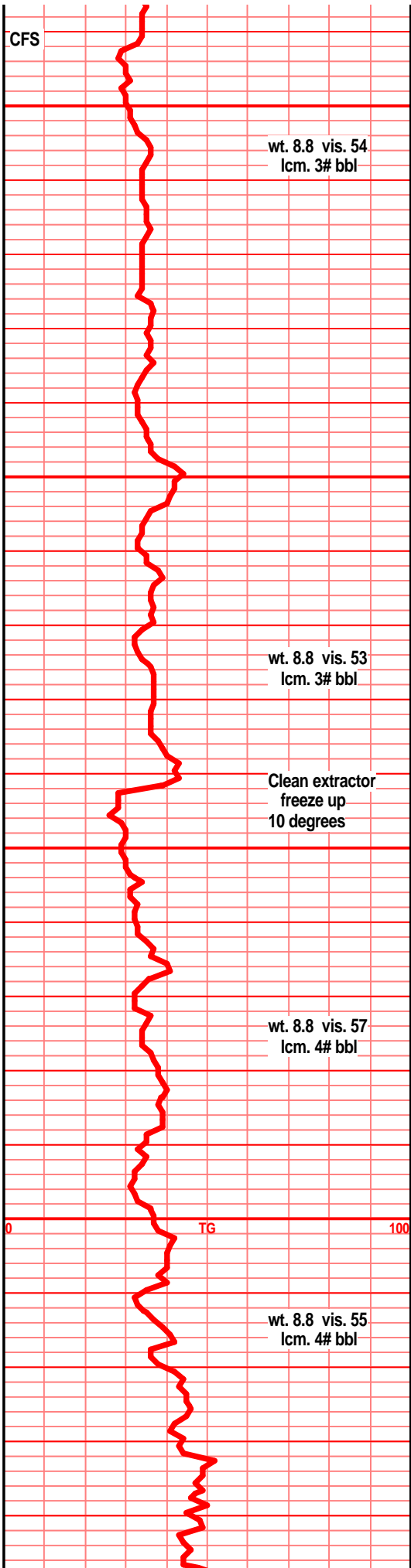
shl gry med lt gry silty mic in prt

shl gry lt gry silty gritty mic in prt

shl gry lt med gry silty

shl gry lt med lt gry silty soft gritty in prt, tr mic

shl gry lt med lt gry silty soft gritty



CFS

wt. 8.8 vis. 54 lcm. 3# bbl

wt. 8.8 vis. 53 lcm. 3# bbl

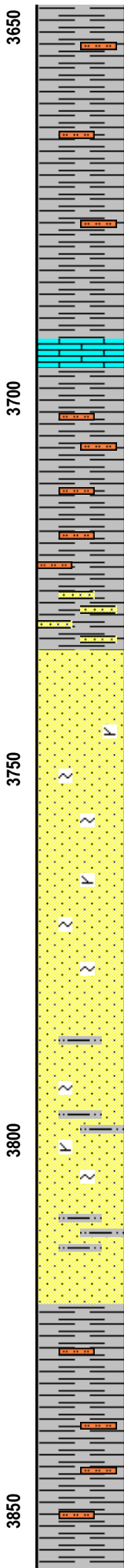
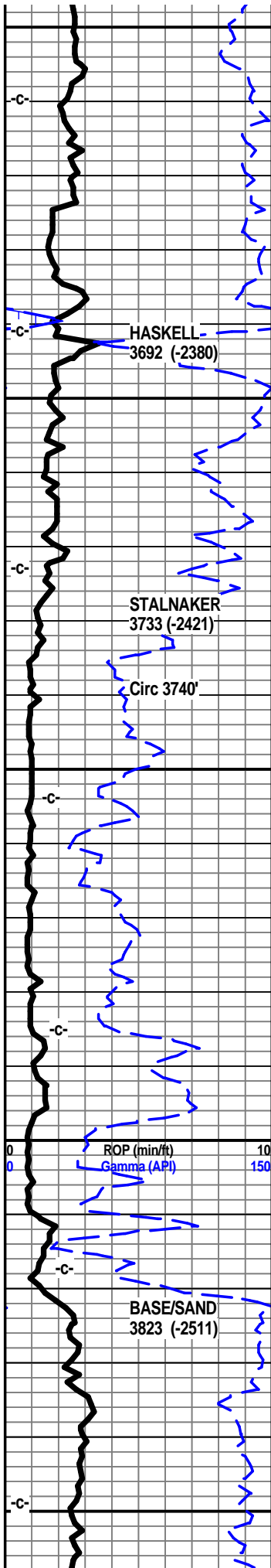
Clean extractor freeze up 10 degrees

wt. 8.8 vis. 57 lcm. 4# bbl

wt. 8.8 vis. 55 lcm. 4# bbl

TG

100



shl gry lt med gry silty

shl gry lt gry silty

shl gry med gry silty soft

shl gry med gry

1st drk tan brn f sli med xln blk ang, hrd, micro foss, calc xln re-fill, tr arg, shl drk gry/blk semi carb

shl drk gry tr gry/blk, blk ang pcs

shl gry med gry silty soft, sndy gritty, snd gry inclu, much blk carb flks, gas bubs,

shl/sltstn gry med gry gritty silty sndy, snd grn inclu, clay fill, min fill, mic, much blk carb flk/fill, shl drk gry/blk semi carb

sst off wht tan f vf grnd clstrs, sub ang/ang grns, prly srted, w/cem, calc cem, packed dns, tr hrd, min fill, tr glau, tr mic, much blk carb flks/fill tr random gas bubs, nodor NSFO

sst off wht tan vf grnd clstrs, sub ang/ang grns prly srted, mstly w/cem, calc cem, sub fria, min fill, glau, tr mic

sst off wht tan clstrs, f vf grnd, sub ang/ang grns, prly srted, mstly w/cem sub fria, calc cem, min fill, tr glau, packed dns clstrs, tr clay fill.

sst wht tan off wht f vf grnd clstrs, sub ang/ang grns, prly srted, w/cem, sub fria, calc cem, min fill, blk specks, tr glau, blk ang hrd pcs in tray

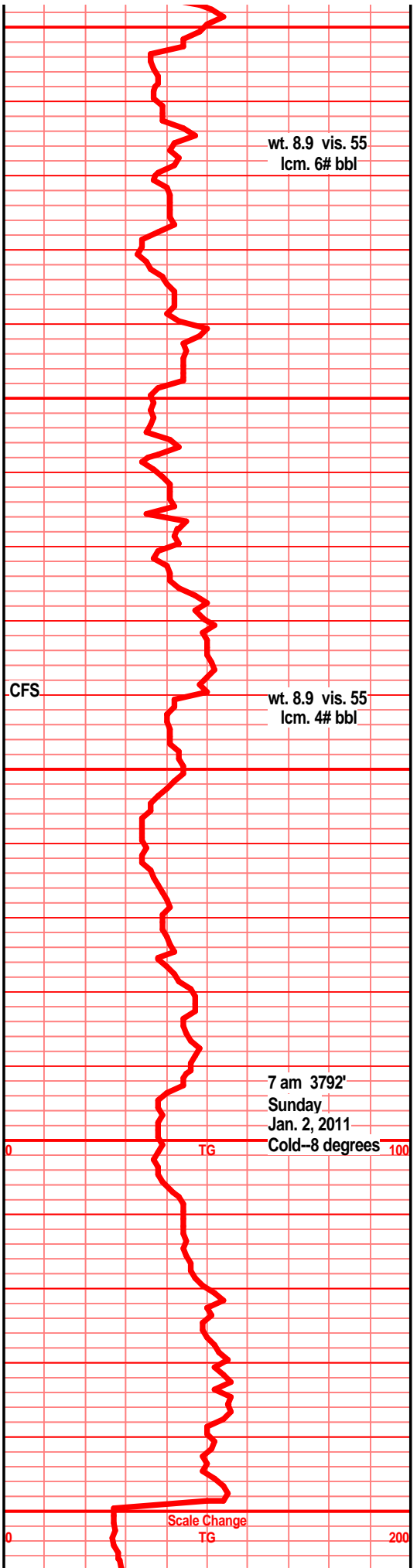
sst off wht tan wht clstrs, f vf grnd, sub ang ang/grns, w/cem, calc cem, blk min fill, tr glau, tr arg clay fill, blk ang hrd clstrs, tr blk carb fill

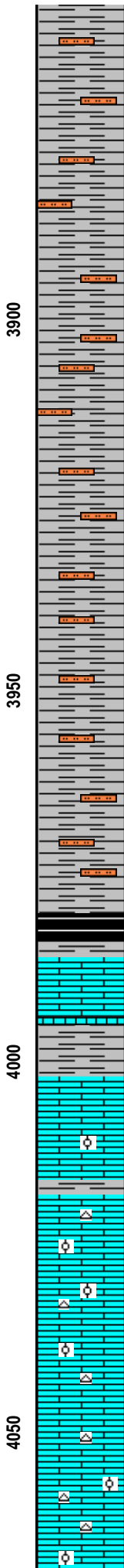
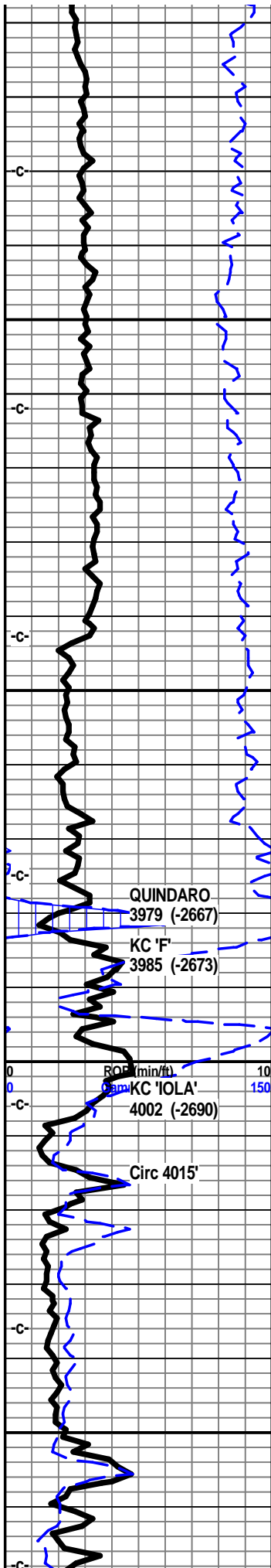
shl med gry drk gry, blk ang pcs

shl gry med drk gry blk ang hrd pcs

shl gry drk gry silty in prt

shl gry drk med drk gry silty, blk ang pcs





shl gry med drk gry silty

shl gry med drk gry

shl gry drk ggry silty blk ang pcs

shl gry drk gry no change

shl gry drk gry

shl gry drk gry tr silty, tr gritty

shl as above, no change

shl as above, gry drk gry silty blk ang pcs, tr gritty

shl gry drk gry tr silty

shl gry, gry blk, drk blue blk

shl gry drk gry blk, deep brn/blk gritty in prt

shl drk gry, drk brn/blk, carb, wxy grsy, abun gas bubs

lst tan buff lt brn f vf xln dns hrd blk tr sub chlky calc fill, foss frags, micro foss

shl gry brn calc, lst aa, lst tan brn vf xln blk dns hrd ang calc xln fill

lst crm buff tan tr lt brn f xln blk ang pcs, sub chlky foss frags, tr foss ool, pp/foss mold por, gas bubs, tr lt transl filmy SFO

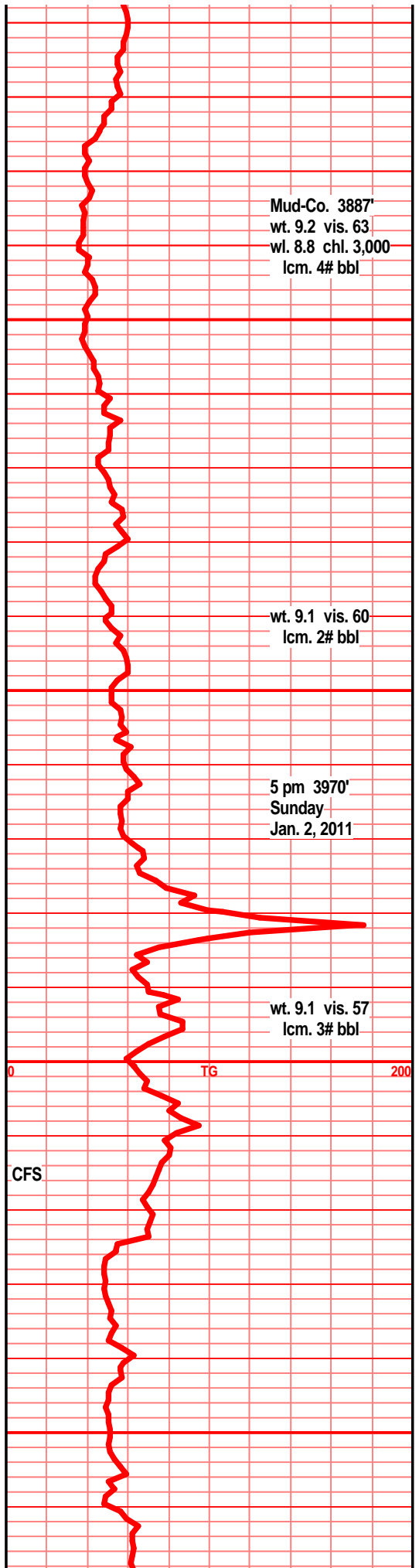
lst crm buff tan f vf xln gran flky sub chlky foss frags, foss ool, pelletal, foss mold por, pp por NS

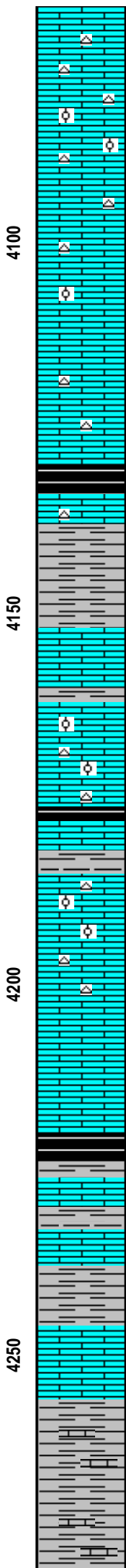
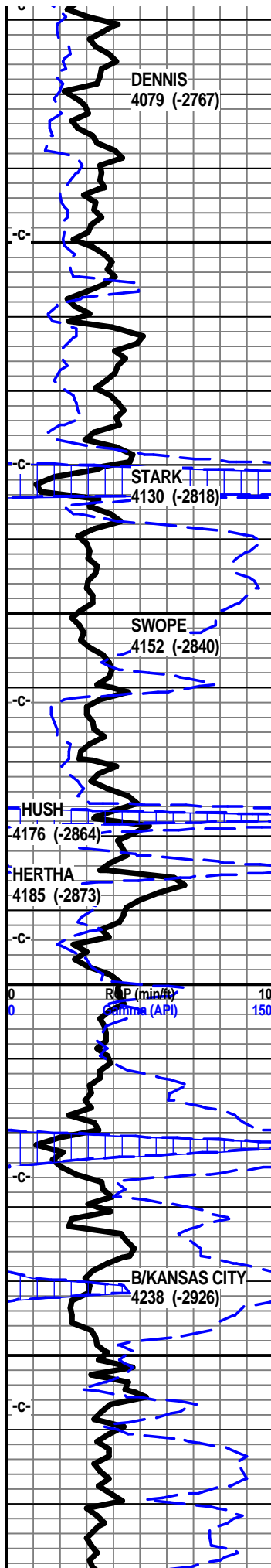
lst tan wht buff f xln blk ang gran sub chlky foss frags, foss ool, chrt wht shrp frsh opa, foss mold por, v/chlky in prt

lst crm buff tan f xln gran blk flky sub chlky foss frag, gd foss mold por, chrt wht shrp opa, calc xln fill

lst tan buff wht f xln gran flky sub chlky foss frags, foss ool, chrt wht shrp opa, lst tan gry vf xln dns hrd blk foss frags

lst crm buff tan f vln blk sub chlky foss frags





lst crm buff tan f xln blk sub chly foss frags, foss ool, calc xln fill, foss mold por, chrt tan wht shrp frsh foss opa

lst crm wht lt tan f xln blk ang flky sub chly foss frags, foss mold por, calc xln fill chrt wht shrp frsh opa foss

lst crm buff tan f xln blk sub chly foss frags, moldic por, calc xln fill, chrt wht tan shrp frsh opa foss

lst crm tan wht f xln blk gran ang flky in prt, sub chly, foss frags, pp por tr foss mold por, chrt wht tan shrp frsh foss

lst crm buff wht f xln blk ang, sub chly foss frags, foss ool, chrt wht shrp frsh foss opa, calc xln re-fill

shl blk carb, gas bubs, lst crm buff f xln blk ang dns sub chly foss frags, foss ool, chrt wht shrp frsh foss opa

shl gry gry/brn calc, lst tan lt brn f vf xln dns hrd arg tr foss frags, tr calc xln fill, chrt tan brn shrp frsh opa

lst tan brn f xln blk dns hrd, tr sub chly foss frags, tr foss ool, tr pelletal, tr pp/moldic por, mstly tite dns, chrt tan brn shrp frsh

lst tan crm brn f vf xln blk dns hrd v/chly to sub chly foss frags, tr pp por, mstly dns, VSSFO/stain, tr gas bubs no odor

tr blk carb shl, wxy grsy, lst dull tan gry f mic xln dns hrd blk, micro foss, chrty, chrt gry tan shrp frsh opa

lst buff gry vf xln dns hrd blk, mic foss, chrty, chrt tan gry shrp frsh

lst crm tan brn f vf xln dns hrd blk, foss frags, crsly foss in prt, hvy calc xln fill NVP, gas bubs, filmy SFO on break, nodor

lst tan dull gry tr lt brn f vf xln blk dns hrd, foss frags, crsly foss in prt, foss ool. packed-tite, hvy calc xln refill, NVP, tr gas bub, tr filmy SFO on brk, nodor

shl gry blk, blk carb, wxy, grsy, lst tan brn dull gry f vf xln dns hrd blk dns arg

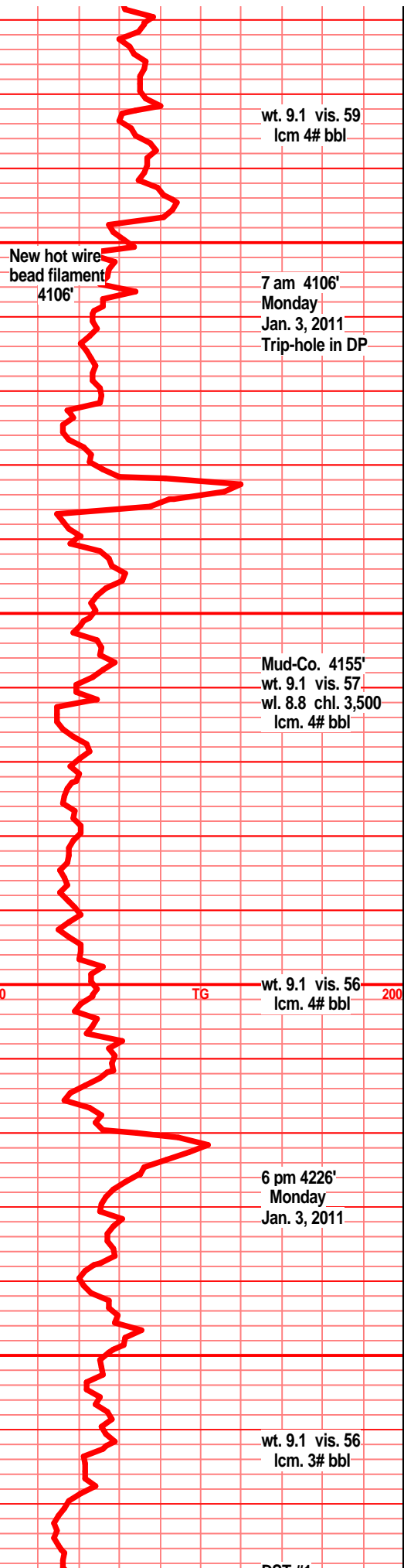
lst gry tan brn f sli med xln blk ang hrd ang arg, massive, foss frags, foss ool, hvy calc xln fill, chrt tan brn shrp frsh foss

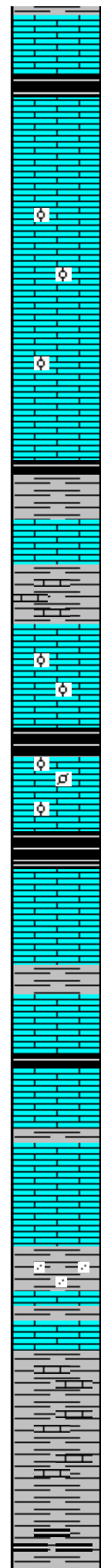
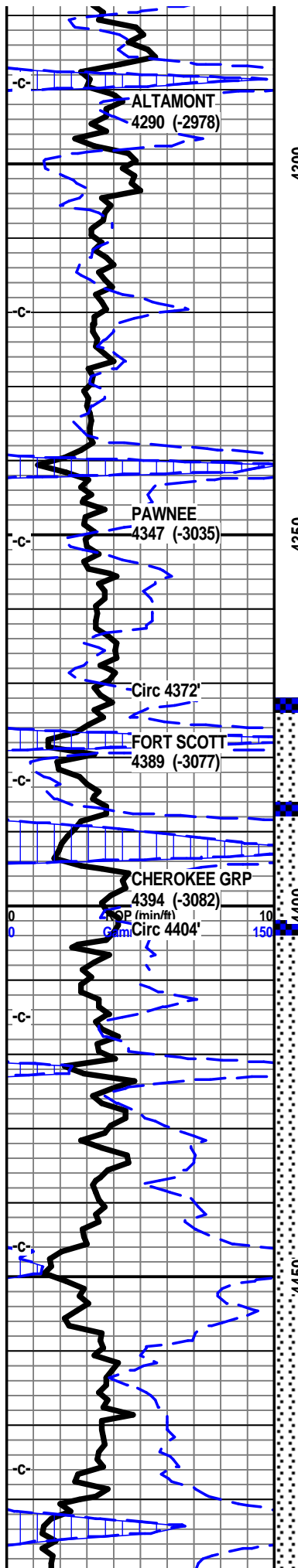
shl gry blk, brn blk calc, lst tan gry brn vf xln dns hrd arg ang, calc xln fill, foss frags,

lst tan buff f xln blk dns sub chly foss frags, foss ool, flky, soft in prt

shl gry, gry brn, blue green, silty, gritty, calc in prt, foss frag inclusions.

shl gry gry brn silty calc blk ang pcs. shl gry blue/green silty gritty tr sndy, lst gry brn vf xln dns hrd blk arg





lst tan crm buff off wht f vf xln blkly dns sub chlky, tr flky micro foss frags, tr calc xln re-fill

blk carb shl in spl, lst crm buff tan f vf xln blkly ang dns hrd tr sub chlky

lst buff tan crm f vf xln blkly ang hrd dns sub chlky in prt, micro foss frags, tr calc xln fill

lst buff tan crm f vf xln dns hrd blkly ang sub chlky tr micro foss

lst buff crm tan f vf xln blkly ang hrd dns, tr sub chlky, micro foss, tr calc xln fill

lst buff tan lt gry tan f vf xln dns hrd blkly ang tr sub chlky tr micro foss, tr calc xln fill

shl gry, gry blk, blk, carb in prt, lst tan gry vf xln dns hrd ang arg tr micro foss

shl gry brn calc, lst tan brn f vf xln dns hrd blkly ang arg, calc xln fill

lst buff tan, dull gry/brn f vf xln massive dns hrd, tr micro foss frags, calc xln fill, gran arg in prt NS

lst buff tan, lt gry/brn vf xln dn shrd blkly ang micro foss frags, calc xln fill, shl gry blk carb

lst tan buff f med xln blkly gran foss frags, crsly in prt, tr sub chlky, foss mold, gd vug por, fair/gd odor, gd gas, lt transl SFO, lt stain

shl blk carb, wxy grsy, lst crm tan lt brn f xln blk dns hrd ang, foss frags, foss ool, tr calc xln fill, abun show as above in sample.

shl gry brn, lst tan buff crm f xln blkly ang sub chlk micro foss, arg

lst tan buff lt brn f vf xln gran blkly sub chlky foss frags, arg, mic foss, chrtly

shl gry blk carg in prt, lst tan brn vf xln dn shrd blkly ang foss frags micro foss, tr ool, tr chrt tan brn shrp frsh

lst drk tan brn f vf xln dns hrd blkly tr arg micro foss, massive, ang arg, tr shl lt gry blue silty sndy gritty

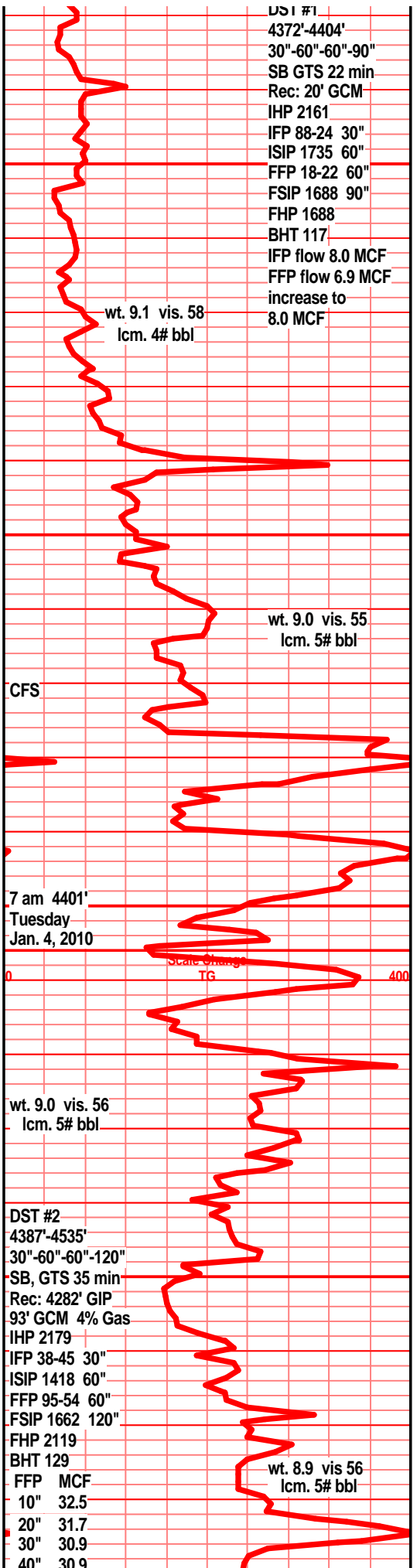
lst drk tan brn vf xln blkly dns hrd massive micro foss frags arg

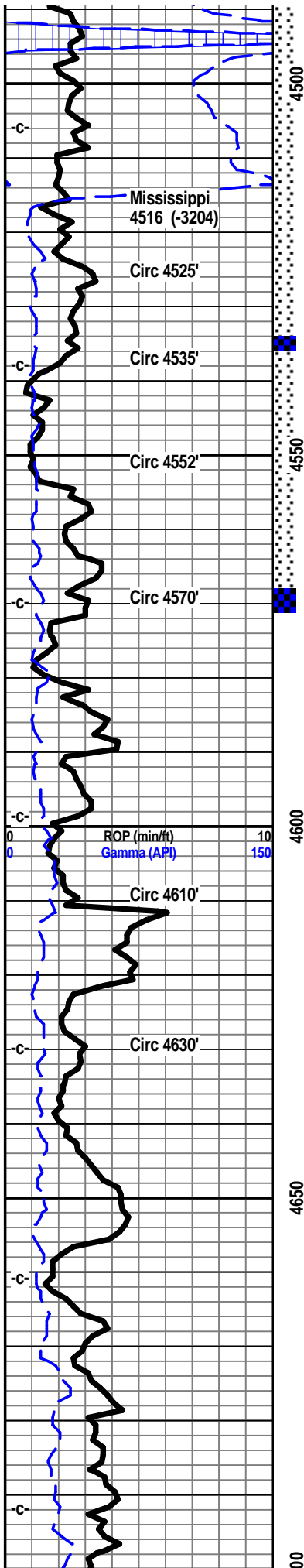
shl gry blue/green silty sndy gritty soft, sltstn blue sndy gritty, snd grn inclu

shl gry gry brn, shl lt gry green silty gritty, gran, calc in prt, lst an brn vf xln blkly dns hrd ang arg silty

shl gry bry, gry blk, silty gritty, calc in prt, lst tan gry brn blkly ang hrd dns

shl gry blk, gry brn silty gritty, tr carb in prt, green red banded ratty silty





shl gry, gyr blk, brn yllw tr maroon silty gritty ratty, lst gry brn vf xln blkly dns hrd arg silty

shl gry green brn maroon, tr yllw, tr vari color, silty gritty ratty

shl gry brn yllw, maroon vari color ratty
 chrt wht gry smokey shrp frsh opa, tan dolo edge, f xln gran, moldic por, dolo, lst in prt, tan crm f xln blkly ang tr foss, inter xln por, chrty, glau
 dolo lst in prt, tan drk tan f sli med xln blkly ang tr suc text, fair inter xln por, tr vug por, lt stain, blk stain, fair SFO, gas bubs, odor, chrt wht/gry shrp frsh w/dolo edge, vug por, stain, SFO, gas bubs, blk stain.

dolo lt tan lt brn f xln gran soft blkly ang gran, suc, blkly ang, micro por, inter xln por, gd odor, gd SFO/STAIN, "bleeding" oil and gas, chrt lt gry off wht shrp frsh opa, dolo aa along edge in prt w/ SFO, stain gas bubs

dolo, lst in prt f xln gran blkly tr suc text, glau, inter xln por, tr chrty, lt brn stain, SSFO, gas bubs, odor
 lst/dolo in prt f med xln blkly flk tr sub chlky, glau, tr chrty, chrt wht lt gry shrp frsh opa, glau, tr w/dolo edge, tr stain VSSFO tr gas bubs, sli odor

dolo, lst in prt crm lt tan f xln gran, suc text, glau inter xln por, lt stain, SFO, gas, chrty, chrt wht, shrp, gran dolo edge w/stain, SFO, gas, fair odor

dolo chrty dolo crm tan f xln gran soft tr suc test glau, inter xln por, odor, SFO, gas bubs, lt stain

dolo crm off wht f xln, gran suc text, glau, inter xln por, pp por, tr lt stain, SSFO, tr gas, lt stain, chrt tan gry, smokey, shrp frsh w/dolo edge show aa, dec show with depth

lst tr dolo in prt, gry wth tan mott, f sli med xln blkly dns hrd ang pcs, chrty, chrt gry smokey shrp frsh foss opa, tr stain, dec show

lst tr dolo, drk tan gry mott f xli med xln gran blkly dns hrd, chrty, chrt tan gy shrp frsh

lst dolo in prt f xln blkly ang dns tr sub chlky, drk tan lt gry mott, chrty, chrty gry smokey opa frsh blkly tr dolo edge

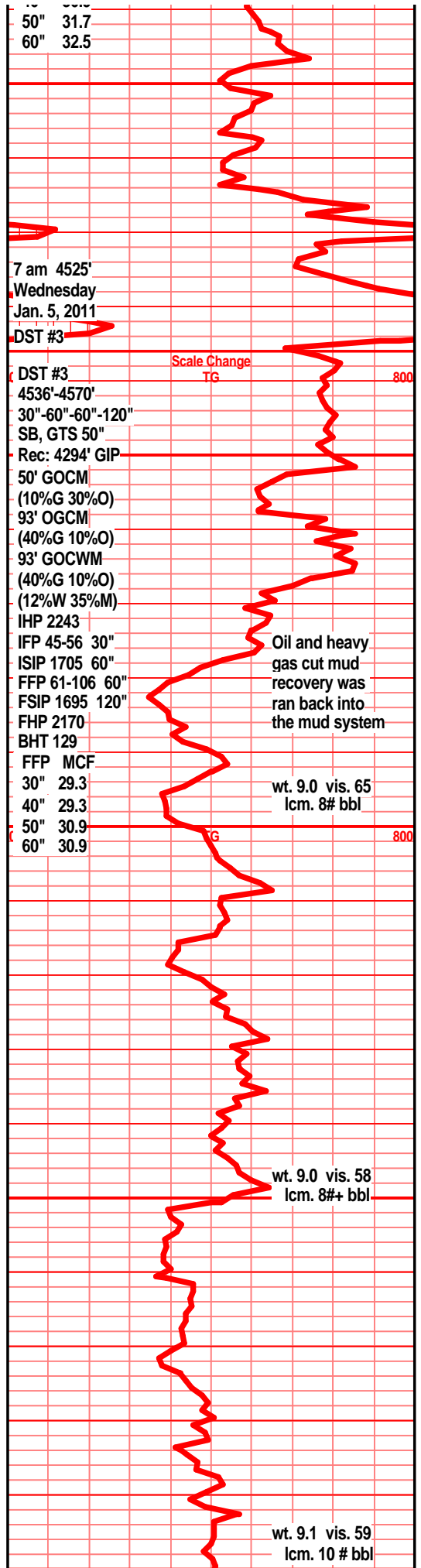
lst dolo in prt, chrty dolo, f xln gran ang blkly, drk tan lt gry mott text, chrt gry shrp blkly frsh, dolo gry tan edge, gran text

lst drk tan lt gry mott, f tr sli med xln, blkly ang chrty pcs, chrt gry smokey shrp frsh opa, silty dolo edge

lst tan gry, mstly lt gry, f xln gran blkly dns, chrty, chrt gry smokey shrp frsh foss

dolo lst in prt drk tan gry, gry tan mott blkly ang hrd dns pcs, chrty in prt, chrt gry smokey shrp frsh opa tr glau

dolo lst in prt, tan bec gry tan lt gry vf xln gran



50" 31.7
60" 32.5

7 am 4525'
Wednesday
Jan. 5, 2011
DST #3

DST #3
4536'-4570'
30"-60"-60"-120"
SB, GTS 50"
Rec: 4294' GIP
50' GOCM
(10%G 30%O)
93' OGCM
(40%G 10%O)
93' GOCWM
(40%G 10%O)
(12%W 35%M)
IHP 2243
IFP 45-56 30"
ISIP 1705 60"
FFP 61-106 60"
FSIP 1695 120"
FHP 2170
BHT 129
FFP MCF
30" 29.3
40" 29.3
50" 30.9
60" 30.9

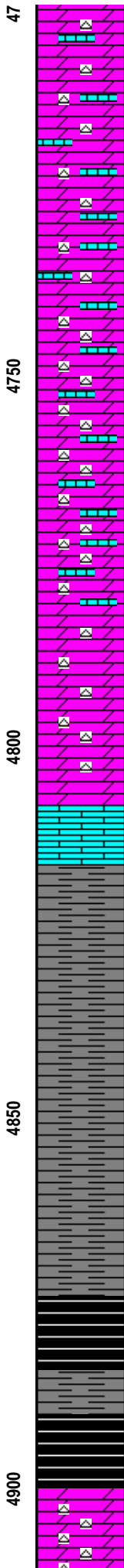
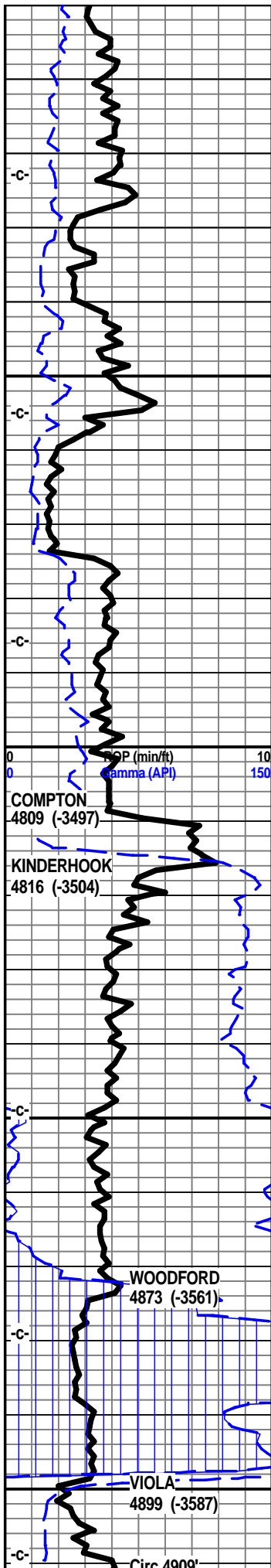
Scale Change
TG

Oil and heavy
gas cut mud
recovery was
ran back into
the mud system

wt. 9.0 vis. 65
lcm. 8# bbl

wt. 9.0 vis. 58
lcm. 8#+ bbl

wt. 9.1 vis. 59
lcm. 10 # bbl



gritty tr silic text, tr chrty, chrt gry smokey shrp frsh foss

dolo tr lst in prt, tan lt gry, lt gry vf xln blk dns ang hrd tr silic text, tr sndy gritty text, chrty, chrt gry shrp frsh

dolo tan gry mott vf xln gran blk ang hrd dns, chrty, chrt tan gry smokey shrp frsh opa

dolo tan gry mott f vf rnd tr silty gritty text soft crumbly in prt, inter gran por, tr inter xln por, chrty, much chrt gry tan shrp frsh opa

dolo tan, gry/tan mott f vf xln silty gritty gran in prt, arg, tr silic text, blk nds arg, chrty, chrt gry shrp opa frsh foss

dolo tan gry msly gry vf xln dns hrd blk silic text, chrty, chrt gry shrp opa

dolo tan drk tan gry mott in prt, f vf xln gran blk dns hrd, silty arg in prt, v/chrty, chrt tan gry smokey shrp frsh opa

dolo tan drk tan gry vf xln gran gritty text silic in prt, dns hrd, crumbly, v/chrty, chrt gry smokey shrp frsh foss

chrty dolo tan drk tan gry mott, vf xn blk dns ang hrd, chrt wht tan smokey shrp frsh foss

chty dolo tan gry mott, vf xln blk dns hrd, silic text in prt, silty arg, chrt tan gry smokey shrp frsh opa foss in prt

lst tan off wht f xln blk ang hrd, dns, tr mic foss, micro ool,

shl gry dry gry tr blk, fnly silty gritty

shl gry blk, drk gry/green, fnly silty, gritty, tr bedded/banded

shl gry drk gry tr blk, fnly silty gritty

shl drkgyr blk, gry/drk green silty, fnly gritty,

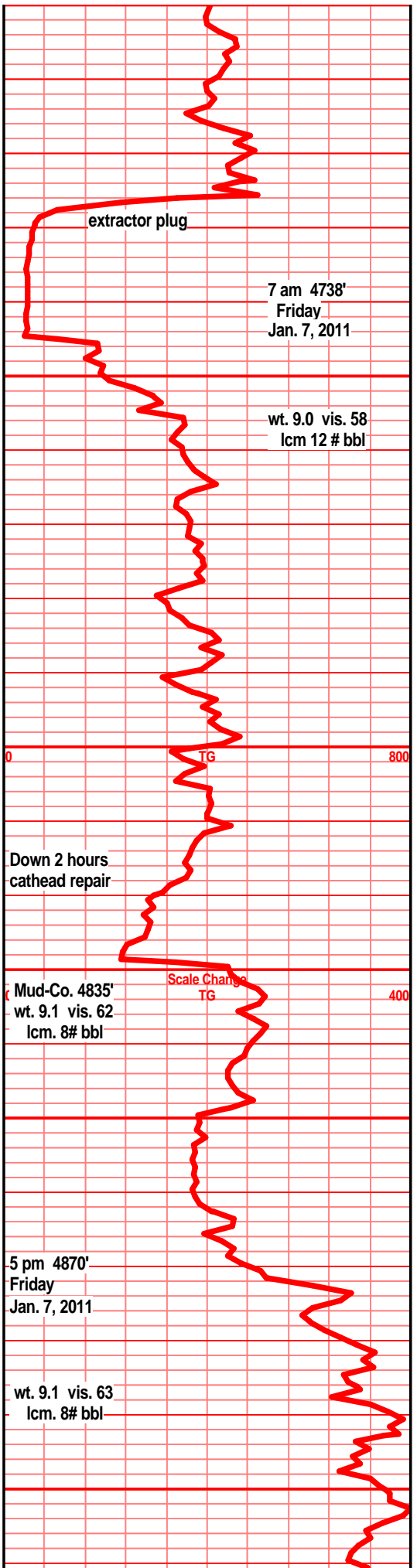
shl gry drk gry tr blk, gry/drk green silty gritty

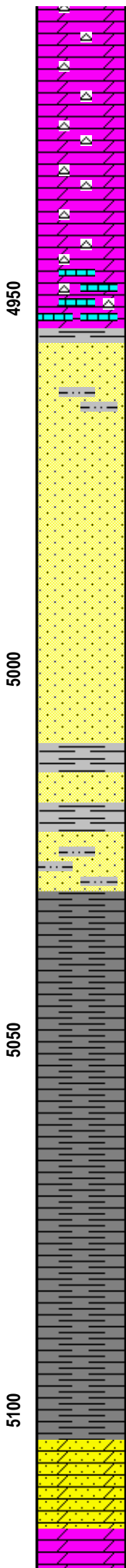
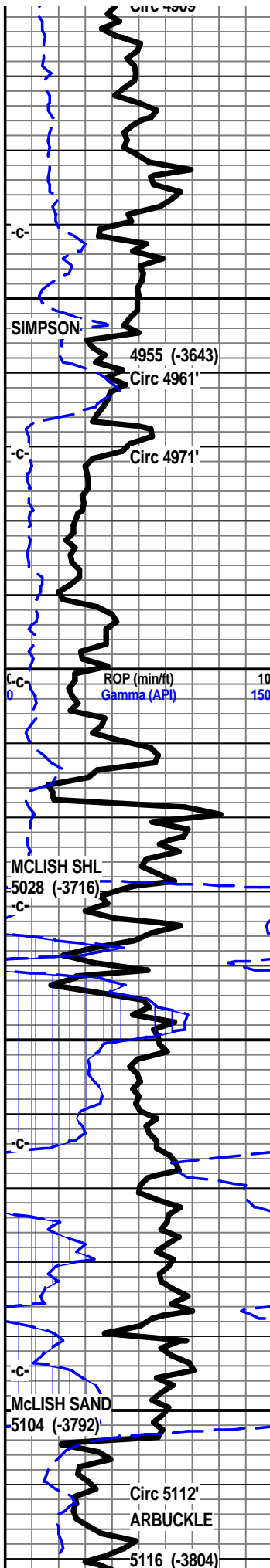
shl bk carb, blk ang pcs, abun gas bubs

shl drk gry blk, deep red/brn blk wxy grsy abun gas bubs

shl drk gry blk, blk deep/brn-red blk ang pcs, abun gas bubs

sst 2-3 clstrs, clr/frstd grns, f grnd, ang grns, prly srted, hvy clay fill, v/pyritic, min fill, dolo tan lt brnf xli med xln gran blk pcs, sndy sli sucr text, gd inter xln por, chrty in prt, chrt dull





gry/tan shrp trsrn

dolo tan lt brn f sli med xln gran blkny sndy sli sucr text, inter xln por, NS, chrt dull tan lt gry shrp frsh opaqa blkny

dolo drk tan brn f xln blkny ang dns pcs, sli sucr text, chrt, chrt drk tan dull gry/tan shrp frsh opaqa

dolo drk tan brn f sli med xln blkny dns hrd ang pcs, silic tr sucr text, chrt in prt, chrt drk tan dull tan gry shrp frsh opaqa, much chrt rubble in spl

lst wht off wht lt gry mott f sli med xln, glky flky tr sub chiky pyritic, chrt wht tan shrp frsh opaqa, dolo and chrt AA

sst off wht lt gry clstrs, f grnd, sub rded/rded grns, w/srtd, w/cem, sub fria, mstly tite packed clstrs tr glau, NS

sst off wht lt gry clstrs, f grnd, sub rded/rded grns, w/srtd, w/cem, sub fria, mstly tite, tr min fill, pyritic in prt

sst lt gry off wht and clr clstrs, fn grnd, sub rded, tr sub ang grns, w/srtd, fairly cem, sub fria, silic cem, tr min fill,

sst wht off wht clr clstrs, f grnd, sub rded, w/srtd, fair to w/cem, tr fria, mstly sub fria tite, tr pyritic, tr glau, tr clay fill

sst clr lt gry clstrs, f grnd, sub ang grns, tr ang grns, bec prly srtd, fair to w/cem sub fria to tite, min fill, blk flky dead stain, clay inclu, tr min fill, pyritic,

sst tan lt brn dolo in prt, f grnd sub ang tr sub rded grns, fair to prly srtd, sub fria to tite, flky grsy stain, min fill, tr pyritic, tr clay fill

sst tan lt brn dolo in prt f grnd sub ang sub rded grns, prly srtd, fair to w/cem blkny, sli sucr text, flky dead blk stain, NSFO, nodor

shl gry dkr gry, gry drk green wxy grsy, lt green/teal green, glau, snd grn inclu

shl teal green silty, fnly gritty, glau, sndy gritty in prt, snd gry inclu, pyritic in prt

shl teal green, slick wxy grsy, snd grn inclu, glau,

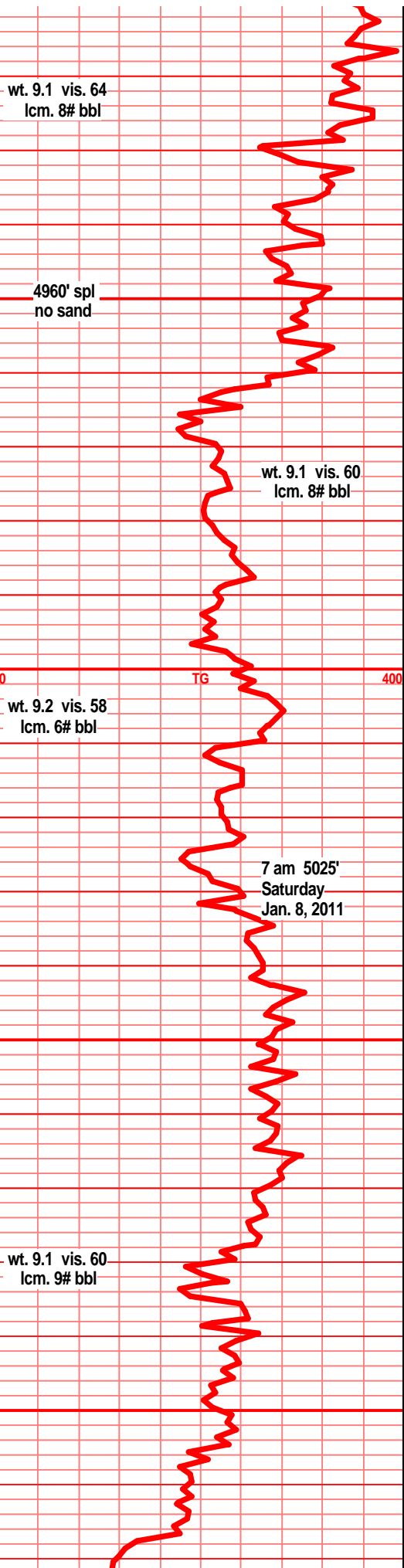
shl teal green wxy grsy, sndy in prt, sst green f grnd ang grns, clay fill, glau fill

shl teal green, drk gry/green slick wxy, snd grn inclu, sst drk green f grnd ang grnd clay fill, v/glau

shl gry drk gry/green teal green sndy gritty in prt,

sst clr lt gry clstrs, f grnd sub ang grns, prly srtd, v/well cem, silic cem, sub fria/tite min fill NS, dol lt gry drk tan f xln, sndy, bky ang pcs, silic in prt, blk min fill

dolo lt gry tan drk tan f xln gran blkny ang tr



wt. 9.1 vis. 64
lcm. 8# bbl

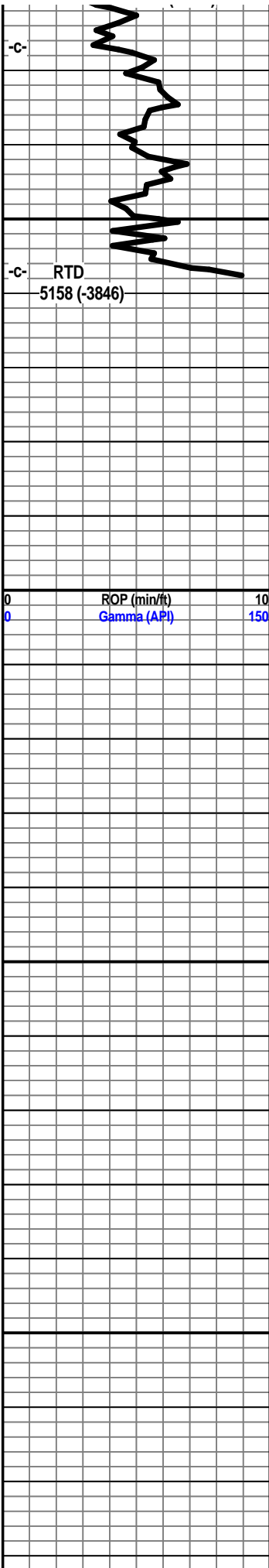
4960' spl
no sand

wt. 9.1 vis. 60
lcm. 8# bbl

wt. 9.2 vis. 58
lcm. 6# bbl

7 am 5025'
Saturday
Jan. 8, 2011

wt. 9.1 vis. 60
lcm. 9# bbl



5150

5200

5250

5300

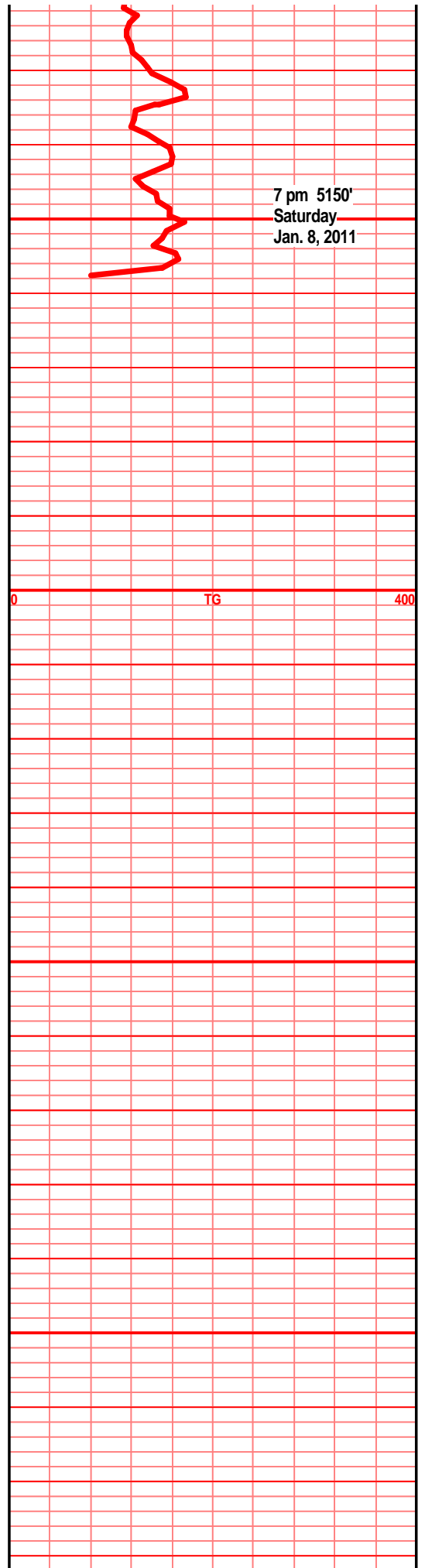


dolo lt gry tan drk tan f xln gran blkly dns
sucr text, mstly dns, tr snd grn inclu, tr small
rhom xln text

dolo lt gry, tan drk tan f vf xln gran blkly dns
ang hrd, inter xln por, tr gran sucr text, tr foss
inclu, tr small rhom xln text

dolo lt gry tan and drk tan f vf lxn gran ang
blkly dns tr rhom xln text, tr sucr text, silic in
prt, tr foss inclu

dolo lt gry/tan, tr drk tan f vf lxn dn shrd blkly
mstly dns, tr inter xln por, tr rhom xln text, tr
snd grn inclu,



7 pm 5150'
Saturday
Jan. 8, 2011

0 TG 400

