



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: _____



1128476

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 <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%; border-bottom: 1px solid black;">Name</td> <td style="width:15%; border-bottom: 1px solid black;">Top</td> <td style="width:15%; border-bottom: 1px solid black;">Datum</td> </tr> </table> | Name | Top | Datum |
| 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: _____ _____ |
|--|---|---|

ALLIED OIL & GAS SERVICES, LLC 060004

Federal Tax I.D. # 20-8651476

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

SERVICE POINT:
Oakley

| | | | | | | | |
|----------------------------------|-----------------|---|-----------------|------------|-----------------------|--------------------------|---------------------------|
| DATE <u>11-25-12</u> | SEC <u>20</u> | TWP <u>20</u> | RANGE <u>35</u> | CALLED OUT | ON LOCATION | JOB START <u>5:30 AM</u> | JOB FINISH <u>6:00 AM</u> |
| LEASE <u>Brack</u> | WELL # <u>2</u> | LOCATION <u>Scott City W To CL 5 To</u> | | | COUNTY <u>Wichita</u> | STATE <u>Ks</u> | |
| OLD OR <u>(NEW)</u> (Circle one) | | Rd CC - 412 W - Ninto | | | | | |

CONTRACTOR H2 #2 OWNER Same

| | |
|-------------------------------|---|
| TYPE OF JOB <u>Surface</u> | CEMENT |
| HOLE SIZE <u>12 7/8</u> | AMOUNT ORDERED <u>165 SKS Com 3% CC</u> |
| CASING SIZE <u>8 7/8</u> | <u>2% Gel</u> |
| TUBING SIZE | |
| DRILL PIPE | |
| TOOL | |
| PRES. MAX | |
| MEAS. LINE | |
| CEMENT LEFT IN CSG. <u>15</u> | COMMON <u>165 SKS @ \$17.20 = \$2953.50</u> |
| PERFS. | POZMIX |
| DISPLACEMENT <u>13.59</u> | GBL <u>3 SKS @ \$23.20 = \$70.20</u> |
| | CHLORIDE <u>6 SKS @ \$64.20 = \$384.20</u> |
| | ASC |

EQUIPMENT

| | |
|------------------|----------------------------------|
| PUMP TRUCK | CEMENTER <u>Darren Racette 1</u> |
| # <u>423-281</u> | HELPER <u>Tyler Flipse 2</u> |
| BULK TRUCK | |
| # <u>347</u> | DRIVER <u>Paul Beaver 3</u> |
| BULK TRUCK | |
| # | DRIVER |

| | | |
|-----------------------------|---------------|------------------|
| HANDLING <u>178.41 CF X</u> | @ <u>2.42</u> | = <u>442.46</u> |
| MILBAGE <u>5.14 X 76 X</u> | @ <u>2.62</u> | = <u>1608.46</u> |
| | TOTAL | <u>\$5458.62</u> |

618.64

REMARKS:
mix Cement
Displace with water
Cement Did Circulate

CHARGE TO: Woolsey Operating Co. LLC
STREET _____
CITY _____ STATE _____ ZIP _____

SERVICE

| | |
|-----------------------------|--------------------------|
| DEPTH OF JOB <u>227.40'</u> | |
| PUMP TRUCK CHARGE | <u>\$1512.25</u> |
| EXTRA FOOTAGE | @ |
| MILBAGE <u>76</u> | @ <u>7.20 = \$585.20</u> |
| MANIFOLD <u>Head</u> | @ <u>275.25</u> |
| <u>1 Mileage</u> | @ <u>4.40 = \$334.40</u> |
| | TOTAL <u>\$2706.85</u> |

WELL FILE
Regulatory Correspondence
Drig / Comp Workovers
Insts / Meters Operations

PLUG & FLOAT EQUIPMENT

| | | |
|------------------------------|-------|---------------------|
| 1 Rodon Svc. Plug | @ | \$112.50 |
| | @ | |
| | @ | |
| | @ | |
| | @ | |
| | TOTAL | <u>\$0.00</u> |

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 Donald Boyd
SIGNATURE Donald Boyd

SALES TAX (If Any) 0.00
TOTAL CHARGES 8,165.47
DISCOUNT 1959.71 IF PAID IN 30 DAYS
6,205.76
2490

DEC 31 2012

ALLIED OIL & GAS SERVICES, LLC 058818

Federal Tax I.D.# 20-5976804

REMIT TO P.O. BOX 93999
SOUTH LAKE, TEXAS 76092

SERVICE POINT:

| | | | | | | | |
|------------------------------------|-----------------|--|-----------------|------------|-----------------------|------------------------|-------------------------|
| DATE <u>2/12</u> | SEC. <u>20</u> | TWP. <u>20</u> | RANGE <u>35</u> | CALLED OUT | ON LOCATION | JOB START <u>10:00</u> | JOB FINISH <u>11:00</u> |
| LEASE <u>Brack</u> | WELL # <u>2</u> | LOCATION <u>Scott 06 12W 10S 4 1/2 W</u> | | | COUNTY <u>Wichita</u> | STATE <u>K</u> | |
| OLD OR NEW (Circle one) <u>New</u> | | | | | | | |

CONTRACTOR H2 #2
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 4701
 CASING SIZE 4 1/2 DEPTH 4701
 TUBING SIZE DEPTH
 DRILL PIPE 4 1/2 DEPTH
 TOOL Port collar DEPTH 2325
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 42.35
 CEMENT LEFT IN CSO. 12.35
 PERFS.
 DISPLACEMENT 75.5 MM H2O

OWNER Same
 CEMENT KCL For 80gal
 AMOUNT ORDERED 100 (100) 49 gal 1/4
FL 100 Cem 6 Gilsonite 10 70 Salt
10 70 Gypsum 11 Flo Seal 8 FL160
 COMMON 160 10 80 5/8 @ 17.00 2864.00
 POZMIX 40 @ 9.35 374.00
 GBL 3 @ 23.40 70.20
 CHLORIDE @
 ASC @
 FL 160 100 lb @ 18.00 1800.00
Salt 10 11 5/8 @ 26.25 262.50
Gilsonite 600 160 lb @ .28 168.00
Flo Seal 25 lb @ 2.22 55.50
 Clay Pro 8 gal @ 34.00 272.00
Gypsum 10 1/2 @ 37.00 370.00
 HANDLING 241.65 CF @ 2.48 599.25
 MILEAGE 9.00 700 10.25 700 2026.25
 TOTAL 9400.00

EQUIPMENT
 PUMP TRUCK CEMENTER Alan Ryan
 # 422 HELPER Terry Heinrich
 BULK TRUCK
 # 973 DRIVER DJ Gray
 BULK TRUCK
 # DRIVER

REMARKS:

Annex, Circulate 30 SK, R.H. 20 SK, MH
Annex 30 SK, 60 40 40 14 Flo Dam 4 1/2
Test w/ 100 cem Washup Display
Plug w/ 25 lb 20 lb KCL 10 70
25 lb 20 lb 10 70 land stage 1600
Float held

779.38
 SERVICE

DEPTH OF JOB 4701'
 PUMP TRUCK CHARGE 2765.00
 EXTRA FOOTAGE @
 MILEAGE 76 @ 7.20 547.20
 MANIFOLD @
Life Vehicle 76 @ 4.40 334.40

TOTAL 3960.35

JAN 02 2013

CHARGE TO: Woolsey Operating
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

Port Collar 1 @ 2907.25 2907.25
AFN Float Shoe 1 @ 496.00 496.00
Control Van 4 @ 56.10 224.40
Latch Down Assembly 1 @ 222.61 222.61
Recip Scratches 12 @ 86.58 1038.96
 TOTAL 4939.74

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 Donald Boyd
 SIGNATURE Donald Boyd

SALES TAX (If Any) 272.73
 TOTAL CHARGES 18,300.92
 DISCOUNT 6222.31 IF PAID IN 30 DAYS

WELL FILE 3470
 Regulatory Correspondence
 Drig Comp Workovers
 Tests / Meters Operations



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Woolsey Oper Co LLC
125 N Market Suite 1000
Wichita Ks 67202
ATTN: Scott Alberg

20-20s-35w

Brack #2

Job Ticket: 51313

DST#: 1

Test Start: 2012.12.01 @ 02:15:00

GENERAL INFORMATION:

Formation: **Amazonia Ditch/Marma**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:01:30

Time Test Ended: 13:12:15

Test Type: Conventional Bottom Hole (Initial)

Tester: Wilbur Steinbeck

Unit No: 65

Interval: 4470.00 ft (KB) To 4530.00 ft (KB) (TVD)

Reference Elevations: 3195.00 ft (KB)

Total Depth: 4530.00 ft (KB) (TVD)

3184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 11.00 ft

Serial #: 8846

Press @ Run Depth: 177.34 psig @ ft (KB)

Capacity: 8000.00 psig

Start Date: 2012.12.01

End Date: 2012.12.01

Last Calib.: 2012.12.01

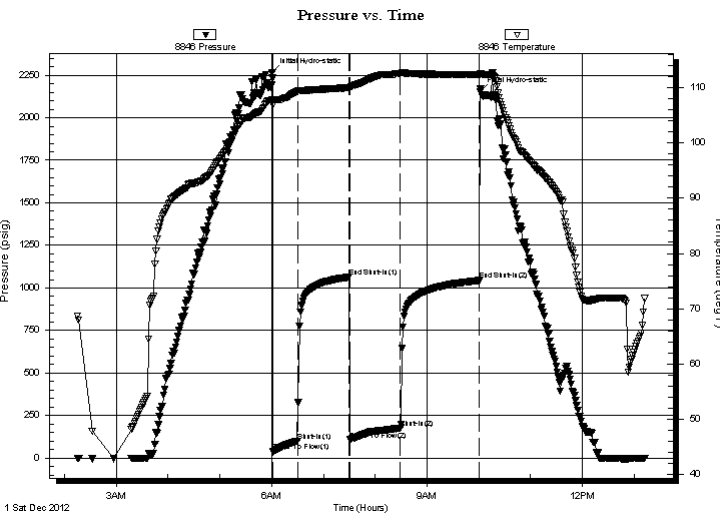
Start Time: 02:15:15

End Time: 13:12:15

Time On Btm: 2012.12.01 @ 06:00:45

Time Off Btm: 2012.12.01 @ 10:01:30

TEST COMMENT: 30 IF; Built to 4 1/2"
60 IS; No Blow
60 FF; Built to 4 1/2"
90 FS; No Blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2263.34 | 107.76 | Initial Hydro-static |
| 1 | 38.65 | 106.78 | Open To Flow (1) |
| 30 | 102.11 | 109.23 | Shut-In(1) |
| 90 | 1063.38 | 109.97 | End Shut-In(1) |
| 90 | 108.80 | 109.86 | Open To Flow (2) |
| 149 | 177.34 | 112.57 | Shut-In(2) |
| 240 | 1044.22 | 112.37 | End Shut-In(2) |
| 241 | 2150.47 | 112.51 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 100.00 | Oil Spotted Mud 100% | 0.49 |
| 260.00 | MCW 20%M 80%W | 1.86 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper Co LLC

20-20s-35w

125 N Market Suite 1000
Wichita Ks 67202

Brack #2

Job Ticket: 51313

DST#: 1

ATTN: Scott Alberg

Test Start: 2012.12.01 @ 02:15:00

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: 45.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 100.00 | Oil Spotted Mud 100% | 0.492 |
| 260.00 | MCW 20%M 80%W | 1.862 |

Total Length: 360.00 ft Total Volume: 2.354 bbl

Num Fluid Samples: 0

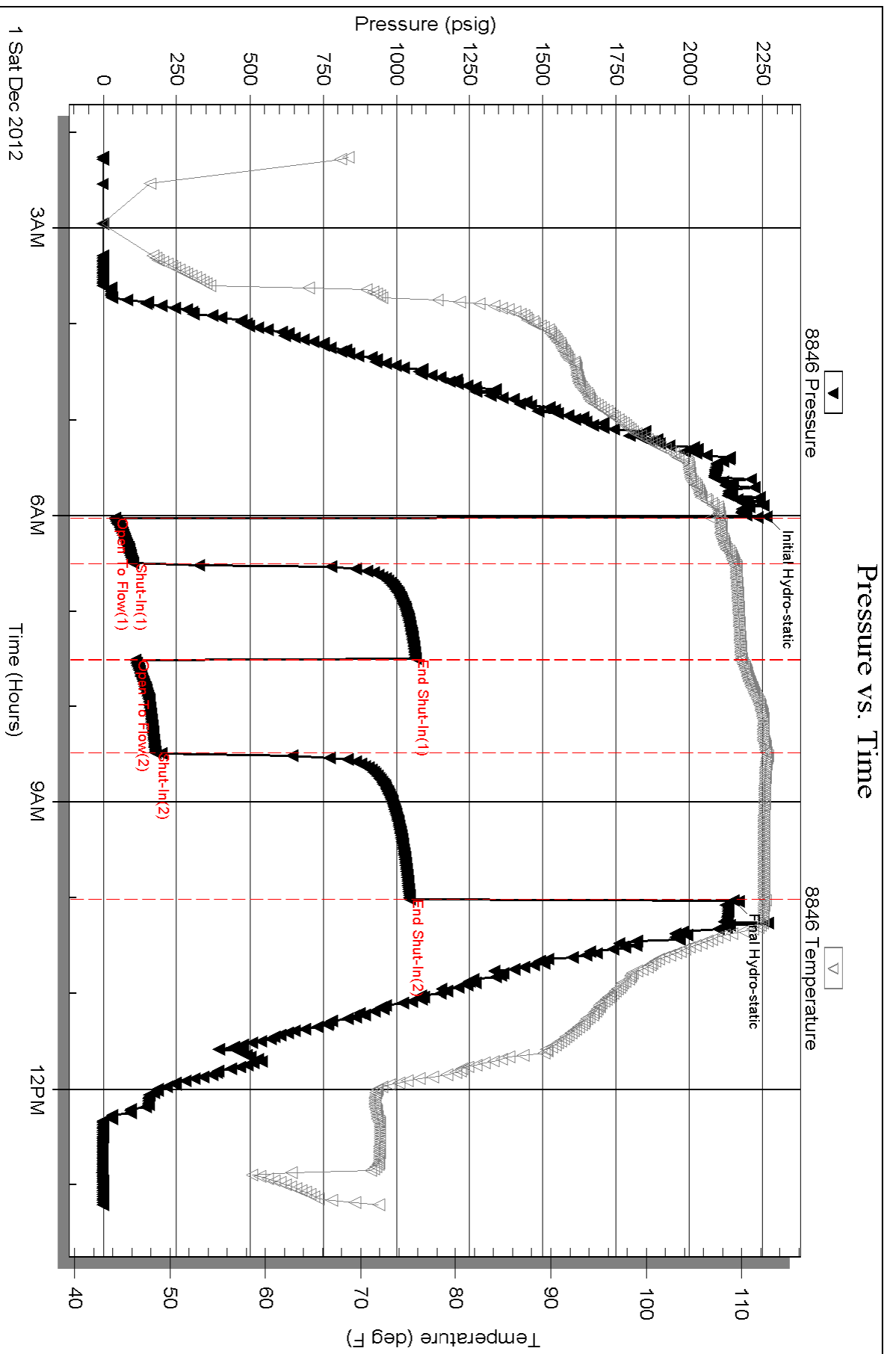
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW .256@69.9=28000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Woolsey Oper Co LLC
 125 N Market Suite 1000
 Wichita Ks 67202
 ATTN: Scott Alberg

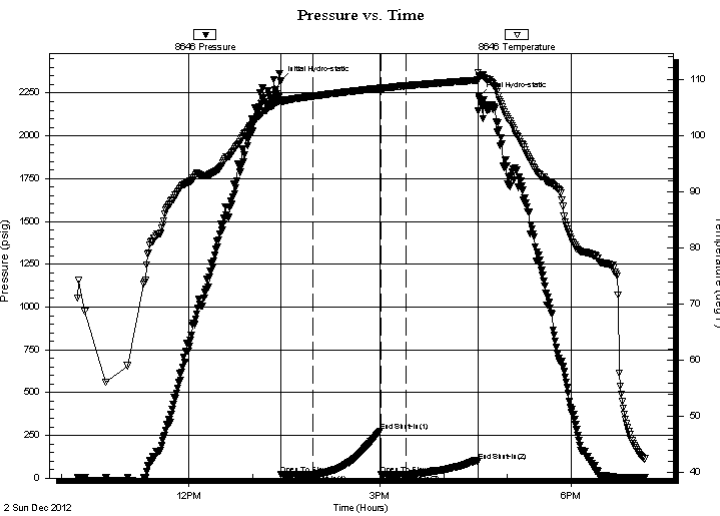
20-20s-35w
Brack #2
 Job Ticket: 51314 **DST#: 2**
 Test Start: 2012.12.02 @ 10:15:15

GENERAL INFORMATION:

Formation: **Ft. Scott**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:27:00
 Time Test Ended: 19:10:00
 Interval: **4639.00 ft (KB) To 4694.00 ft (KB) (TVD)**
 Total Depth: 4694.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Mike Roberts
 Unit No: 65
 Reference Elevations: 3195.00 ft (KB)
 3184.00 ft (CF)
 KB to GR/CF: 11.00 ft

Serial #: 8646 **Inside**
 Press @ Run Depth: 21.83 psig @ 4640.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.12.02 End Date: 2012.12.02 Last Calib.: 2012.12.02
 Start Time: 10:15:15 End Time: 19:10:00 Time On Btm: 2012.12.02 @ 13:26:15
 Time Off Btm: 2012.12.02 @ 16:33:30

TEST COMMENT: IF:Weak blow that died in 14 min
 IS:No return blow
 FF:No blow
 FS:No return blow



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2320.32 | 106.37 | Initial Hydro-static |
| 1 | 20.41 | 105.93 | Open To Flow (1) |
| 31 | 20.78 | 106.97 | Shut-In(1) |
| 94 | 275.83 | 108.40 | End Shut-In(1) |
| 95 | 21.14 | 108.28 | Open To Flow (2) |
| 119 | 21.83 | 108.83 | Shut-In(2) |
| 186 | 99.09 | 109.82 | End Shut-In(2) |
| 188 | 2227.75 | 110.48 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 5.00 | mud 100% m | 0.02 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Woolsey Oper Co LLC

20-20s-35w

125 N Market Suite 1000
Wichita Ks 67202

Brack #2

Job Ticket: 51314

DST#: 2

ATTN: Scott Alberg

Test Start: 2012.12.02 @ 10:15:15

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.97 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 5.00 | mud 100% m | 0.025 |

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

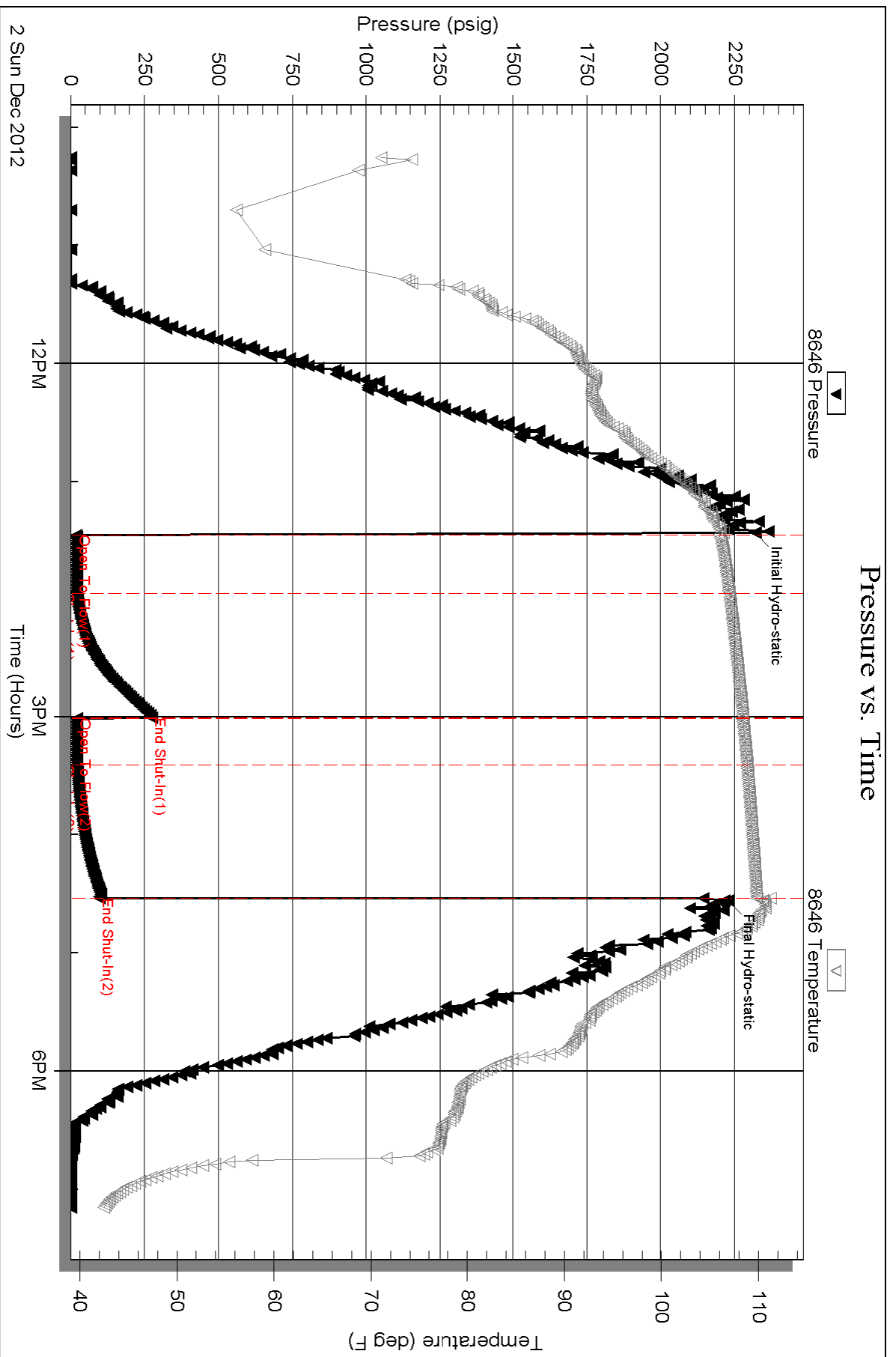
Serial #: 8646

Inside

Woodsey Oper Co LLC

Brack #2

DST Test Number: 2





Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Brack #2
Location: Approximate NW NE SE SW
License Number: API: 15-203-20195-00-00
Spud Date: November 24, 2012
Surface Coordinates: Section 20-T20S-R35W, 1240' FSL, 2295' FWL
Bottom Hole Coordinates: SAND CREEK DRAW POOL
Vertical Hole
Ground Elevation (ft): 3184
Logged Interval (ft): 3000 To: 5860
Formation: Rotary Total Depth in Simpson?
Type of Drilling Fluid: Chemical Mud, Displace at 3398'
K.B. Elevation (ft): 3195
Total Depth (ft): 5860
Region: Wichita County County
Drilling Completed: December 7, 2012
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: W. Scott Alberg
Company: Alberg Petroleum, LLC
Address: 609 Meadowlark Lane
Pratt, Kansas 67124

FORMATION TOPS

| | SAMPLE TOPS | LOG TOPS |
|----------------|-------------|-------------|
| HEEBNER SHALE | 3962(-767) | 3961(-766) |
| TORONTO | 3986(-791) | 3983(-788) |
| LANSING | 4012(-817) | 4008(-813) |
| KC IOLA 'G' | 4232(-1037) | 4230(-1035) |
| SWOPE | 4398(-1203) | 4390(-1195) |
| B/KC | 4475(-1280) | 4471(-1276) |
| MARMATON | 4508(-1313) | 4506(-1311) |
| PAWNEE | 4613(-1418) | 4608(-1413) |
| CHEROKEE GROUP | 4696(-1501) | 4691(-1496) |
| ATOKA | 4781(-1536) | 4774(-1579) |
| MORROW GROUP | 4871(-1676) | 4868(-1673) |
| MISSISSIPPIAN | 4951(-1756) | 4945(-1750) |
| VIOLA | 5690(-2495) | 5688(-2493) |
| SIMPSON GROUP | 5827(-2632) | 5825(-2630) |
| RTD | 5860(-2665) | |
| LTD | | 5859(-2664) |

COMMENTS

Surface Casing: Set 5 joints 8 5/8" at 225'(tallied 212.4') with 165sxs Class A, 2% gel, 3% cc, plug down at 5:45 am on November 25, 2012. Cement did Circulate.

Production Casing: 4 1/2" Casing Ran.

Deviation Surveys: 1 - 227, 3/4 - 731', 3/4 - 1266', 3/4 1799', 3/4 2332', 3/4 2835', 1/2, 3619', 1/4 - 4122', 3/4 - 4530', 3/4 - 5860'.

- 1- 12 1/4" out at 227'
- 2- 7 7/8" out at 4530'
- 3 - 7 7/8" out at 5860'.

Pipe Strap at 4530' - .23' Short to Board.

Gas Detector: Woolsey Operating Company, Trailer #1

Mud System: Mud Co, Terry Ison, Tony Smith, Engineers.

DSTs: Trilobite Testing,

Logged by Superior Well Services.

LTD - 5859'.

DSTs

DST #1 4470 to 4530' Marmaton (Amazonia Ditch)

Times 30-60-60-90

1st Opening - Weak to fair, built to 4 1/2", no blow back.

2nd Opening - Weak to fair, built to 4 1/2", no blow back.

Recovery: 360' Total Fluid

100' oil spotted Mud, 260' MCW (20% M, 80% W)

IFP 38-102# FFP 108-177#

ISIP 1063# FSIP 1044#

IHP 2263# FHP 2150#

Temp 113

Chlorides 28,000 ppm

DST #2 4639-4694 Ft Scott

Times 30-60-30-60

1st opening, weak blow, died in 14 minutes

2nd Opening, no blow

Recovery: 5' Drilling Mud

IFP 20-20# FFP 21-21#

ISIP 275# FSIP 99#

IHP 2320# FHP 2227#

Temp 110

CREWS

H2 Drilling, Inc Rig #2

Tool Pusher - Steve Craig

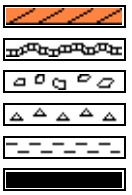
Drillers - Days - Mark McCain

Evening - Mike Moore

Morning - Terry Christenson

Relief - Heath Middleton

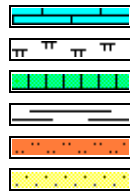
ROCK TYPES



Anhy
Bent
Brec
Cht
Clyst
Coal



Congl
Sdy dolo
Shy dolo
Dol
Gyp
Sdy lmst



Lmst
Mrlst
Salt
Shale
Slstst
Ss



Black sh
Gry sh
Shale
Shyslstst
Sltysh

ACCESSORIES

MINERAL

- Anhy
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Ferrpel
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt

- Chlorite
- Dol
- Sand
- Slty

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomoldic

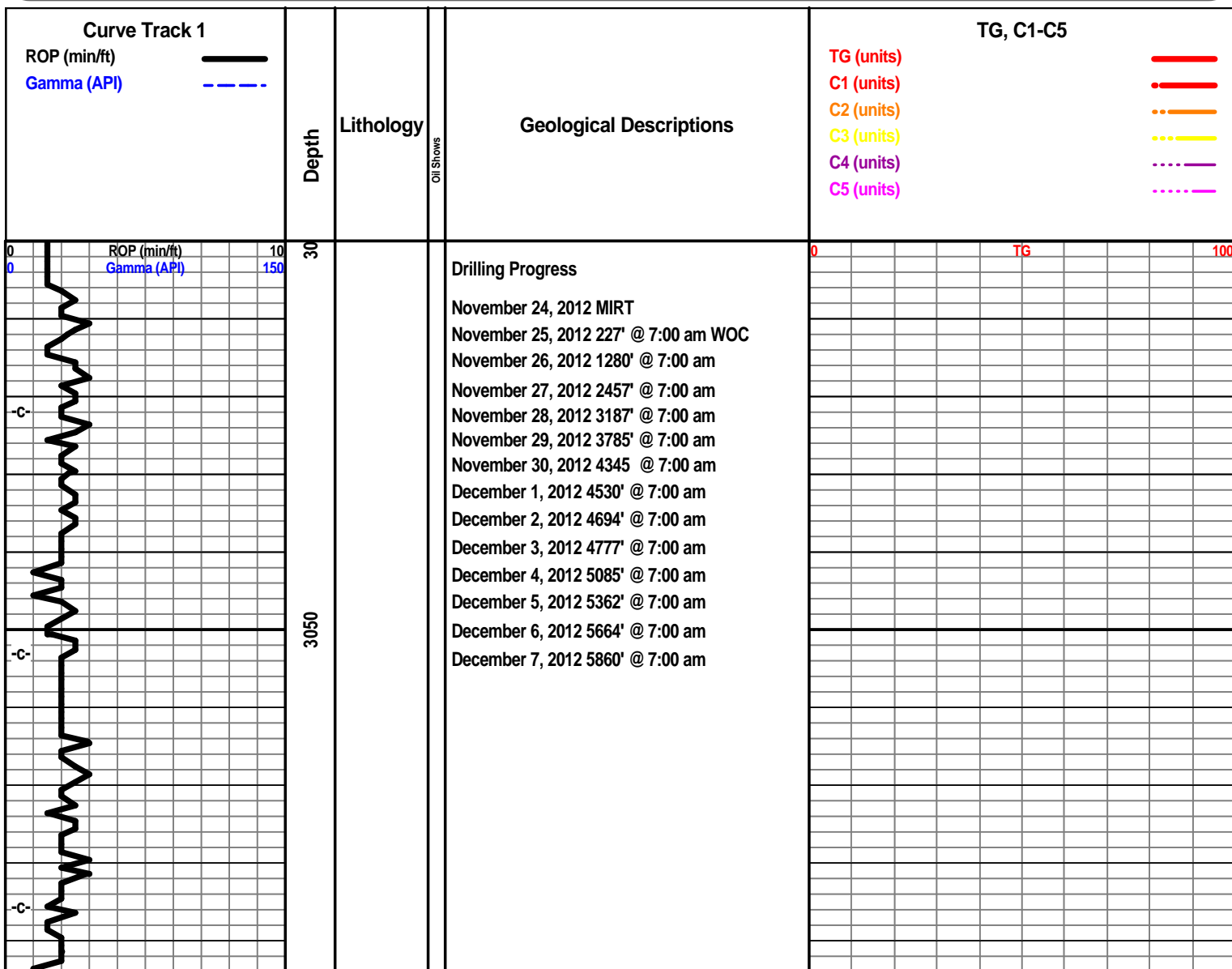
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Slststn

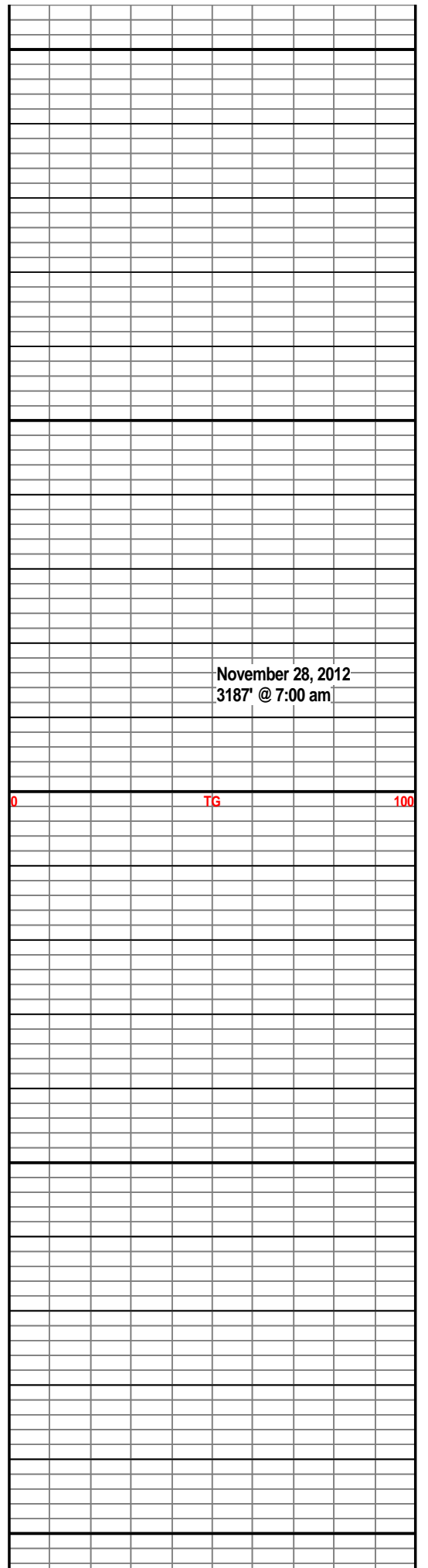
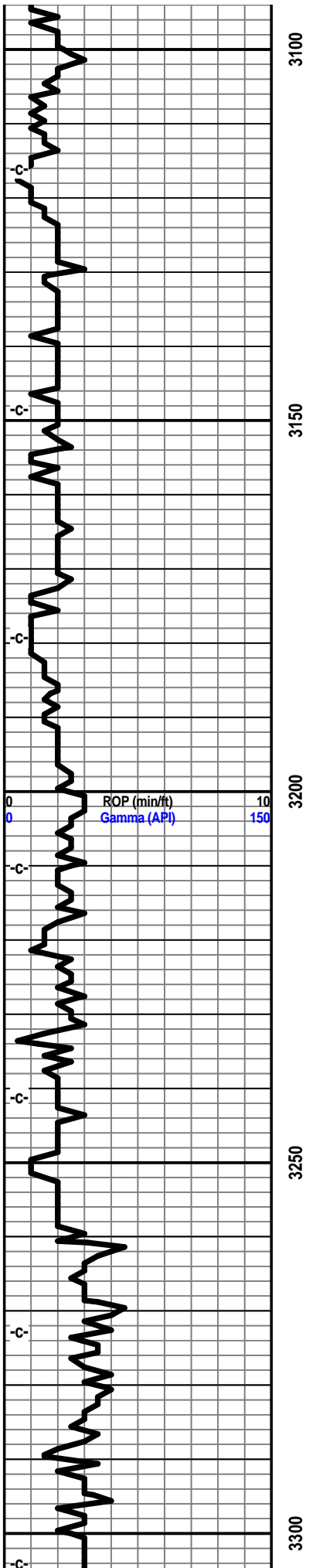
STRINGER

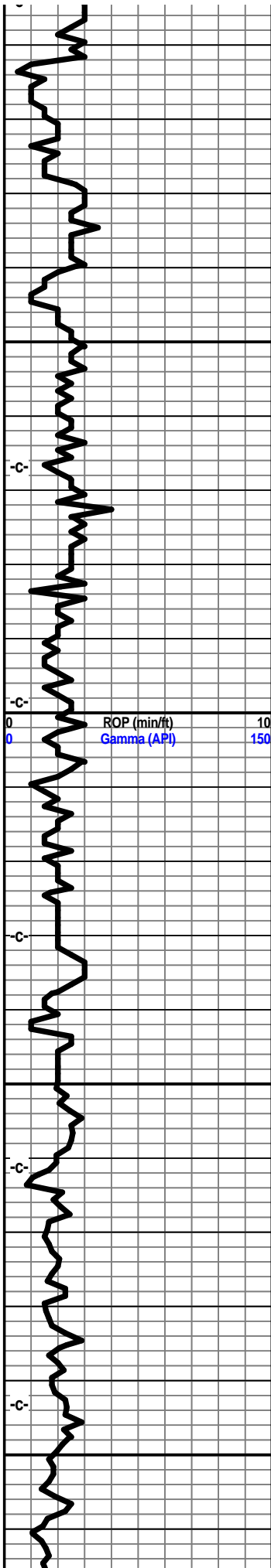
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Slststrg
- Ssstrg
- Carbsh
- Clystn
- Dol

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest





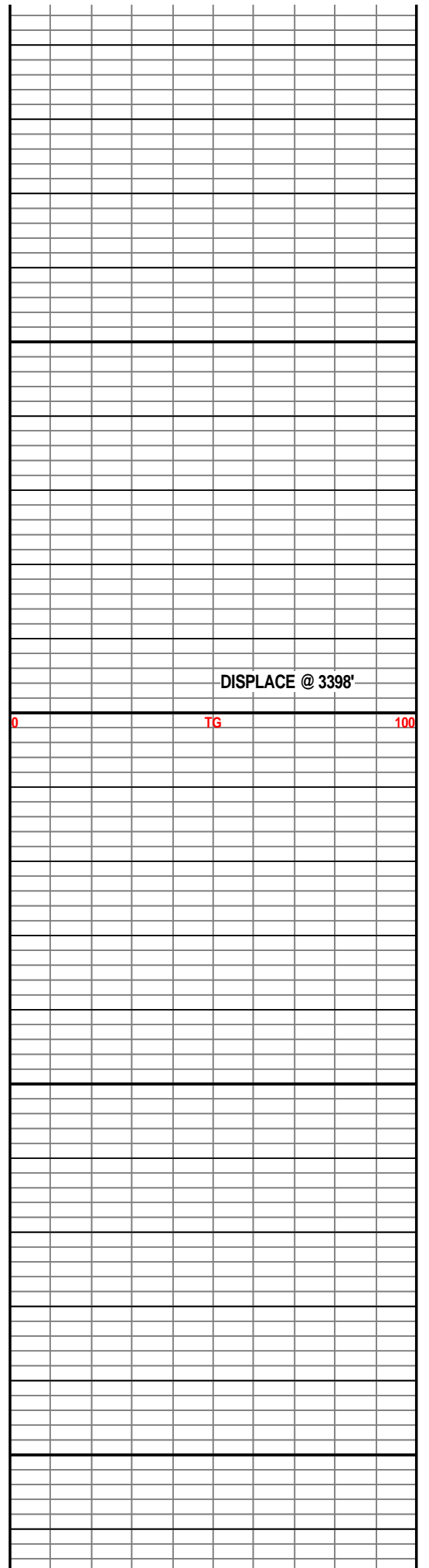


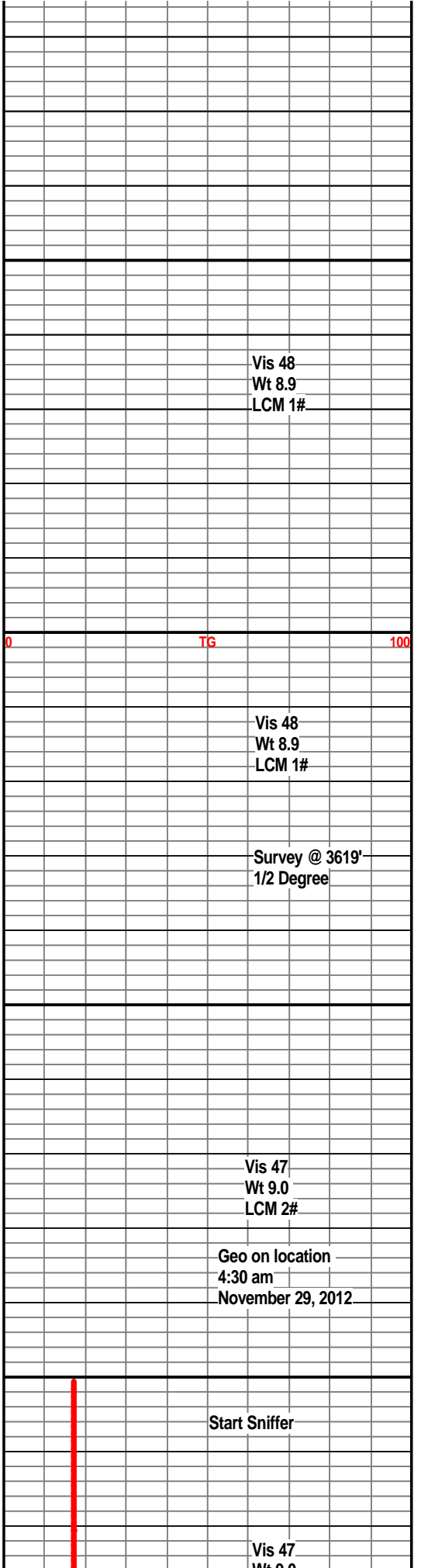
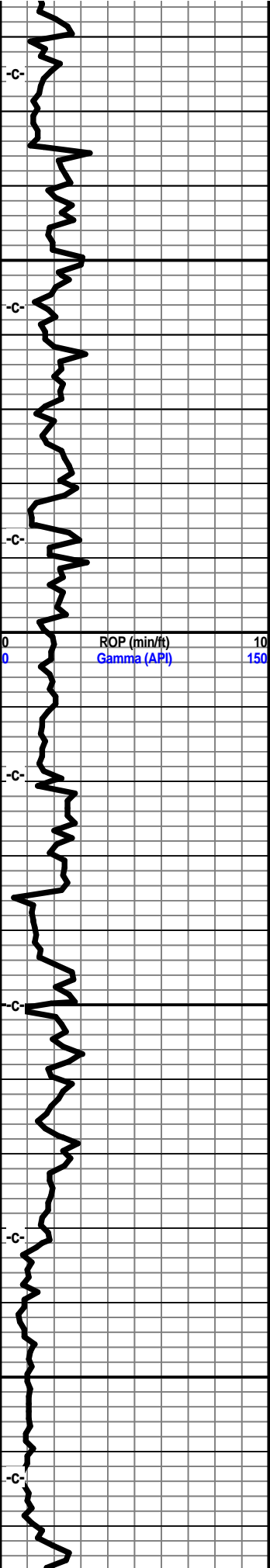
3350

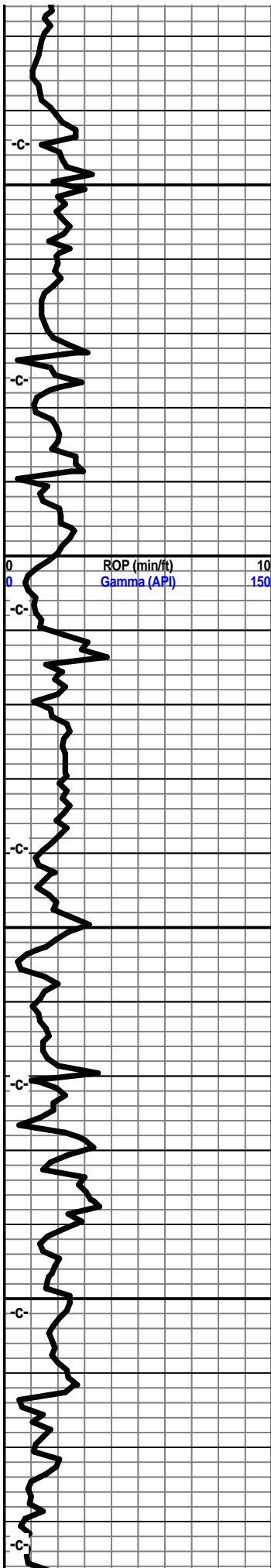
3400

3450

3500





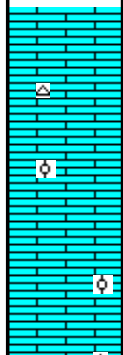


3750

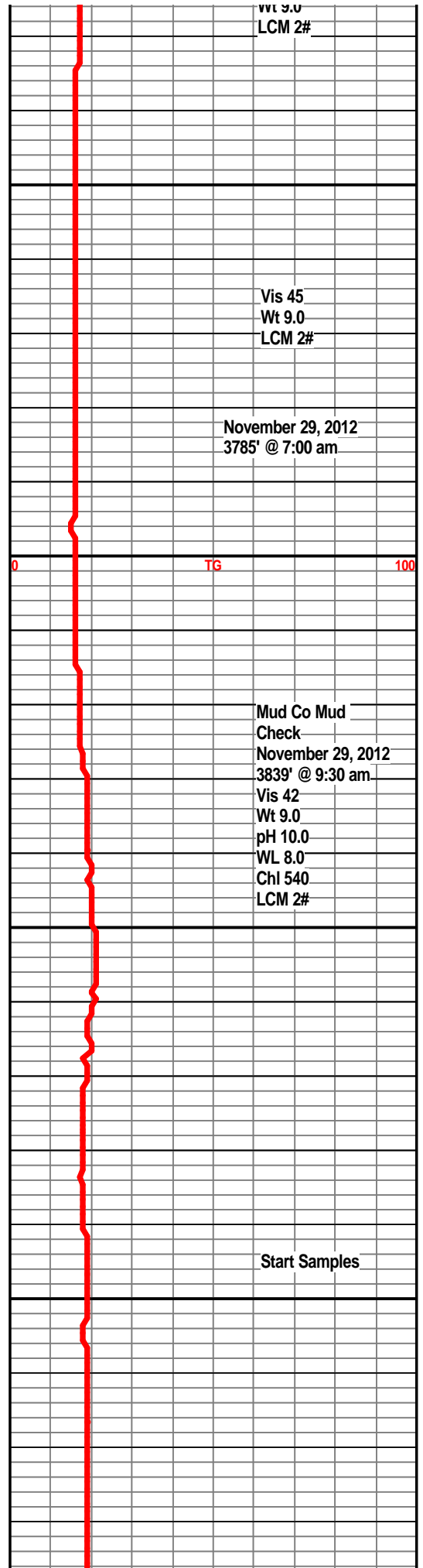
3800

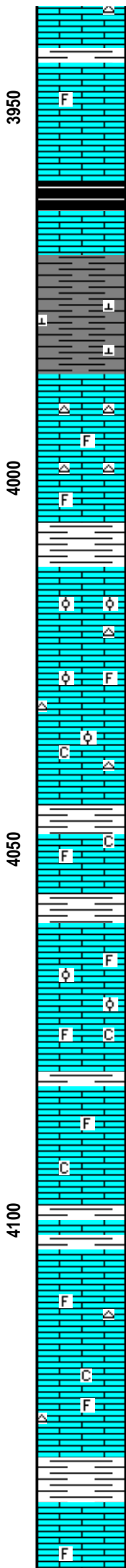
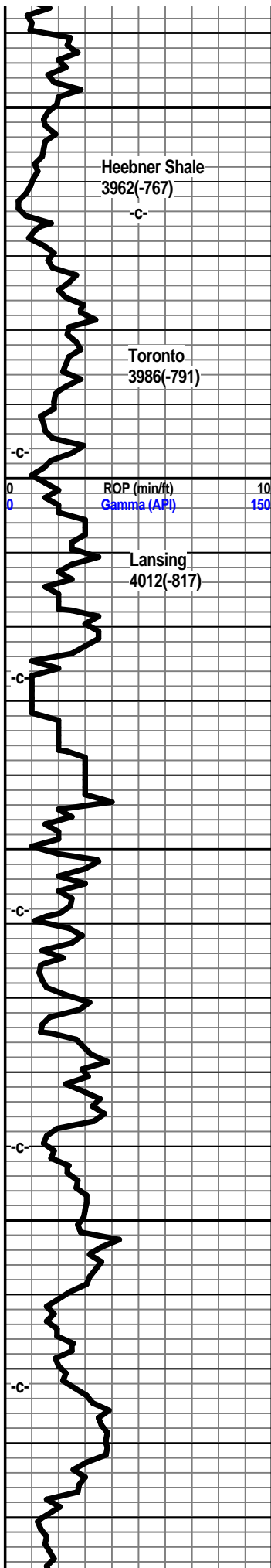
3850

3900



Limestone, tan, grey-white, xln, dense, traces of white chert, trace oolites, some oolitic porosity.





Shale, grey, reddish brown

Limestone, tan, xln, dense, slightly foss.

Shale, grey-black.

Shale, grey, some reddish brown, calcitic in part.

Limestone, cream, tan-white, fxln, very chalky, off-white foss cherts, no visible shows.

Limestone, tan-white, white, xln, chalky, off-white chert.

Shale, light grey to grey.

Limestone, white to grey-white, xln, oolitic, chalky in part, some grey chert, no visible shows.

Limestone, cream, buff, xln, fossils, trace oolites, chalky in part, trace foss chert, no vis shows.

Shale, grey, some reddish brown.

Limestone, tan-white, xln, foss porosity, chalky in part, no vis shows.

Shale, grey, reddish brown.

Limestone, cream, buff-white, xln, dense in part, oolitic, trace oolimoldic porosity, chalky in part, no vis shows.

Shale, grey.

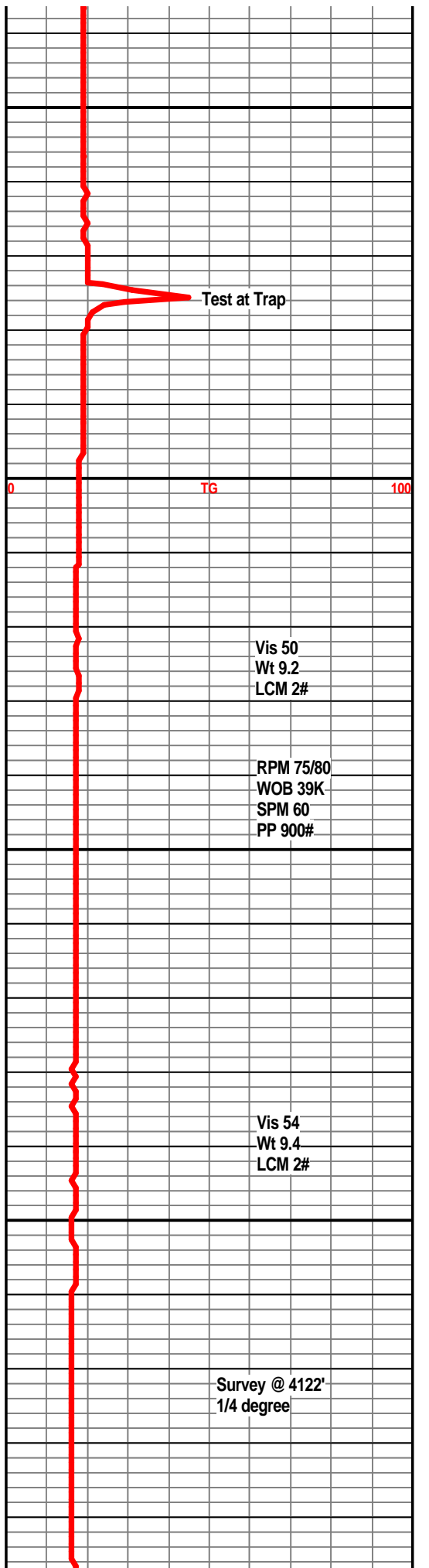
Limestone, grey-white, xln, dense, slightly foss, trace chalky, trace foss porosity.

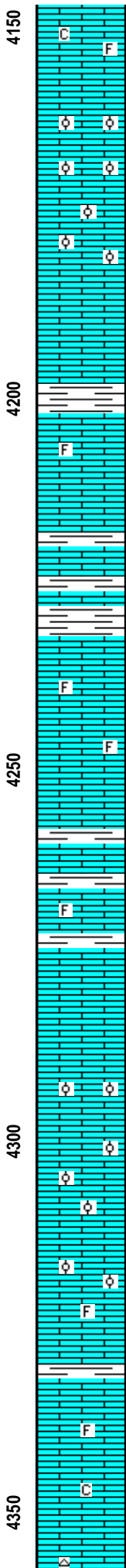
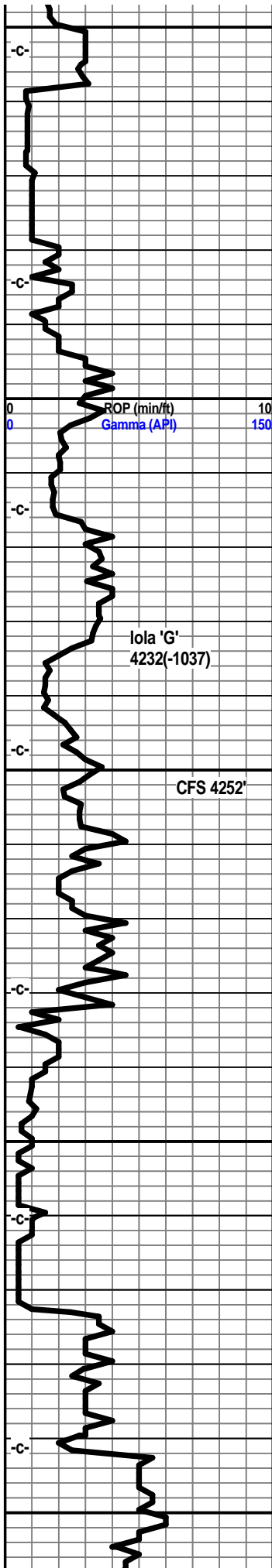
Shale, grey, dark grey.

Limestone, tan, buff-white, xln, dense, foss, trace white chert, slightly chalky.

Shale, grey, ls frags.

Limestone, cream, buff-white, xln, foss in part,





trace chalky.

Limestone, tan-white, fxln, very foss, oolimidic porosity, barron, no vis shows.

Limestone, grey-white, tan, xln, partly dense, foss in part, no vis shows.

Shale, grey.

Limestone, tan-white, grey-white, xln, dense in part, trace foss, foss porosity, slightly chalky.

Shale, grey.

Limestone, buff-white, grey-white, fxln, partly dense, trace few small vugs, some fossil frags, fossils, trace white foss chert, no visible shows, no odor.

Limestone, grey-white, xln, dense, slightly foss. Some grey shales interbedded.

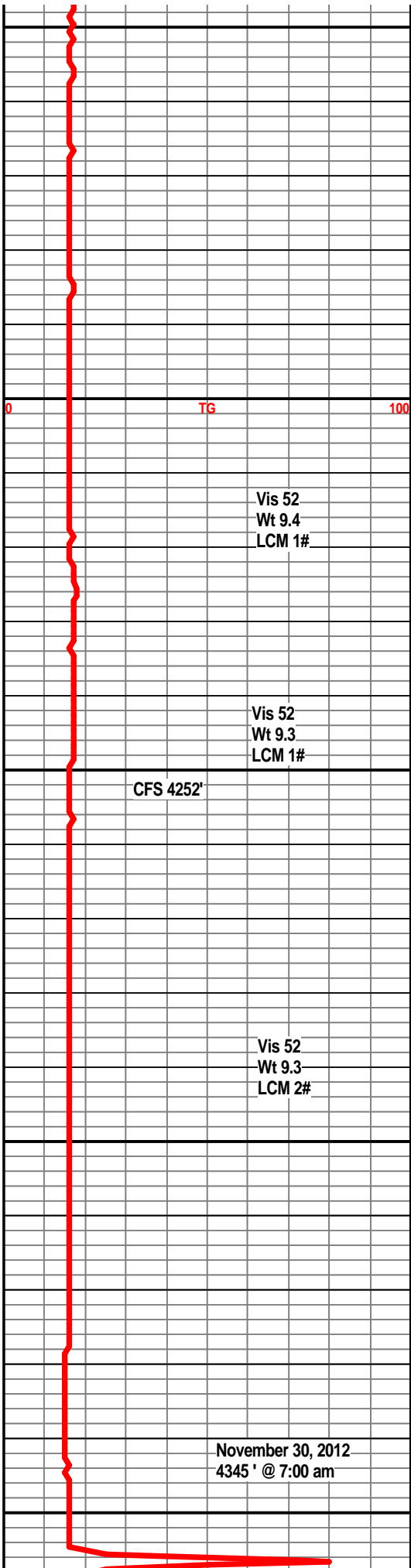
Limestone, tan, buff-white, fxln, oolitic, oolimidic porosity, barron, no vis shows, no odor.

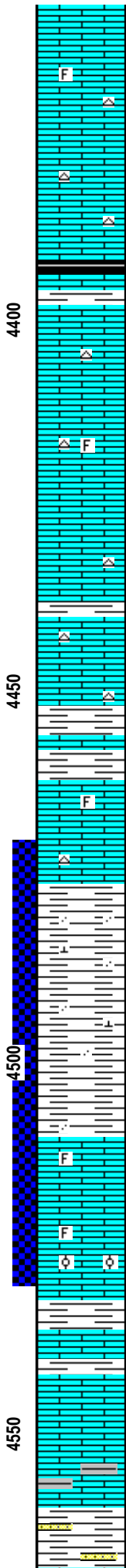
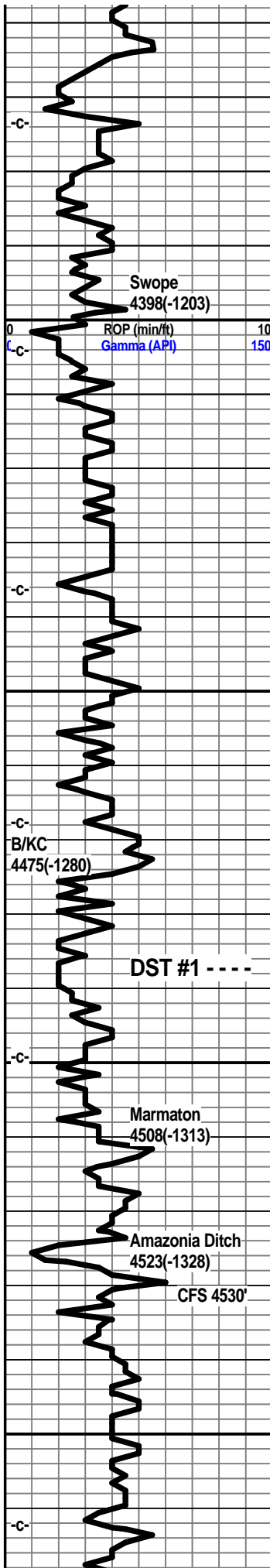
Limestone, a/a

Shale, grey.

Limestone, grey-white, xln, dense, foss in part, slightly shaley, no vis shows.

Limestone, tan, grey-white, fxln, dense, slightly chalky.





Limestone, grey-white, xln, dense, trace chalk, trace fossils.

Limestone, grey-white, tan, xln, dense, off-white cherts, light grey chert.

Shale, grey-black.

Limestone, grey-white, cream, xln, trace xln porosity, trace grey chert, no vis shows.

Limestone, grey-white, xln, cherty in part, no vis shows.

Limestone, tan, buff-white, xln, dense, grey cherts, some grey shale.

Shale, grey-black

Limestone, tan, tan-brown, xln, dense, slightly foss, trace grey chert, no vis shows.

Shale, light grey, pale green, very sandy, slightly calcitic, trace ls frags.

Shale, a/a, some reddish-brown, maroon.

Limestone, tan, tan-brown, xln, dense, trace foss., no vis shows.

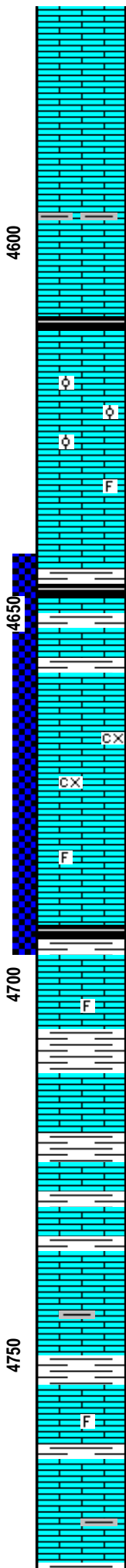
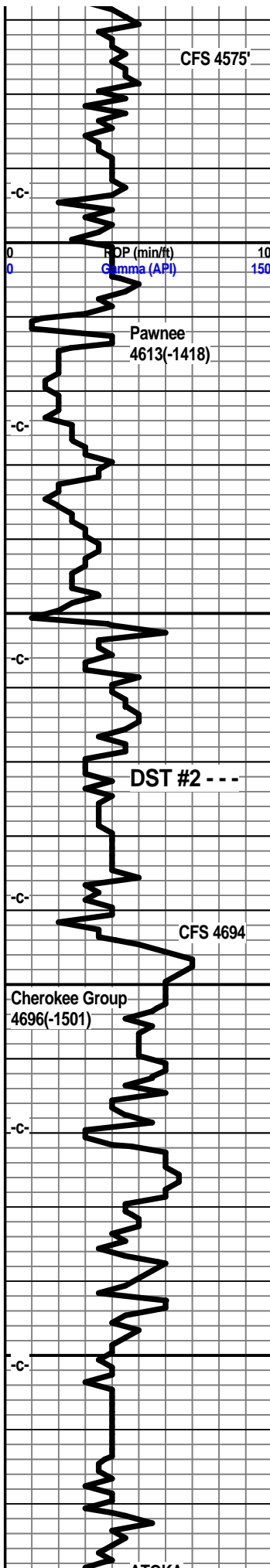
Limestone, tan, cream, xln, oolitic, foss frags, well cemented, inter foss porosity, poor visible porosity, light show of oil, questionable faint odor.

Shale, grey-black, some reddish brown.

Limestone, grey-white, xln, slightly foss, chalky in part, soft, some interbedded shales, no visible shows.

Shale, grey, some reddish-brown, few sand grains embedded with the grey shales, ls frags.

| | |
|--|---|
| | Test at Trap |
| | Vis 51 Wt 9.4 LCM 1# |
| | |
| | |
| | TG |
| | |
| | Mud Co Mud Check November 30, 2012 4400' @ 10:30 am Vis 45 Wt 9.3 pH 8.0 WL 10.4 Chl 8000 LCM 1# |
| | Vis 55 Wt 9.4 LCM 1# |
| | |
| | DST #1 4470 -4530 Times 30-60-60-90 1st Opening - Weak to fair, built to 4 1/2". no blow back 2nd Opening - Weak to fair, built to 4 1/2", no blow back. 360' Total Fluid 100' Oil spotted Mud 260' MCW (20% M, 80% W) IFP 38-102# FFP 108-177# |
| | Vis 50 Wt 9.4+ LCM 1# |
| | |
| | Mud Co Mud Check December 1, 2012 4530' @ 2:00 pm Vis 54 Wt 9.4 pH 10.0 WL 8.0 Chl 8000 LCM trace |
| | ISIP 1063# FSIP 1044# IHP 1163# FHP 1044# Temp 113 Chlorides 28,000 |
| | CFS 4530' December 1, 2012 4530' @ 7:00 am |
| Extractor Motor Quit Left Pumps on | Pipe Strap- 4530' Board 4530.69' Strap 4530.46' Short .23' |



Limestone, tan, fxln, dense, trace chalky, no shows.

Limestone, tan, buff, xln, dense, trace foss,

Limestone, grey-white, fxn, partly dense, shaley in part, no vis show.

Shale, grey-black.

Limestone, grey-white, xln, soft, mottled, foss, trace oolites, chalky in part, traces of shale, no visible shows, no odor.

Limestone, grey-white, buff, xln, dense, foss in part, trace oolites, fossils, no vis shows.

Shale, grey-black

Limestone, tan, tan-brown, xln, dense, trace xkn prosiy, no vis shows.

Shale, grey.

Limestone, tan, buff, fnxln, xln porosity, few very small vugs, very faint odor, slight show of light oil.

Limestone, tan, buff, xln, dense, trace fossils, no vis shows.

Shale, grey-black.

Limestone, cream, grey-white, xln, dense, slightly foss.

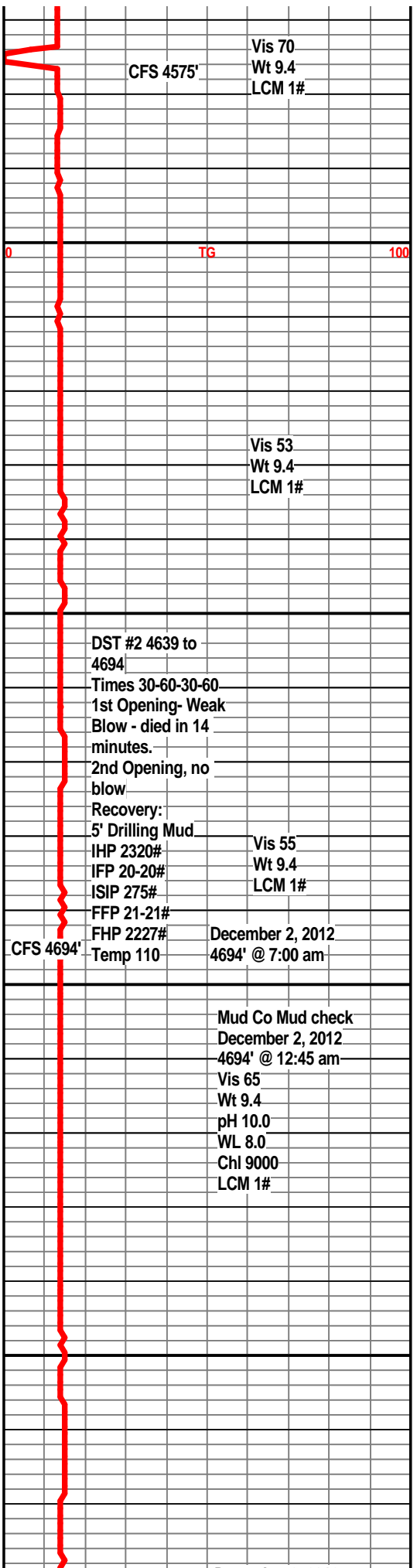
Limestone, cream, buff-white, xln, dense.

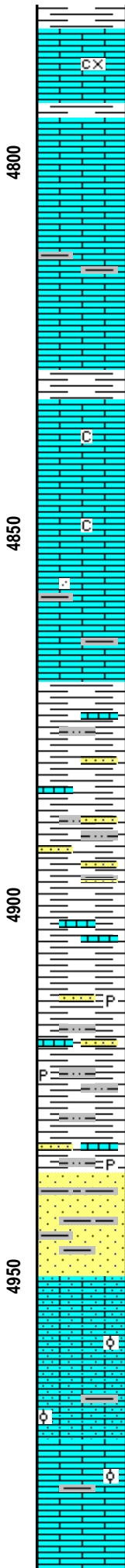
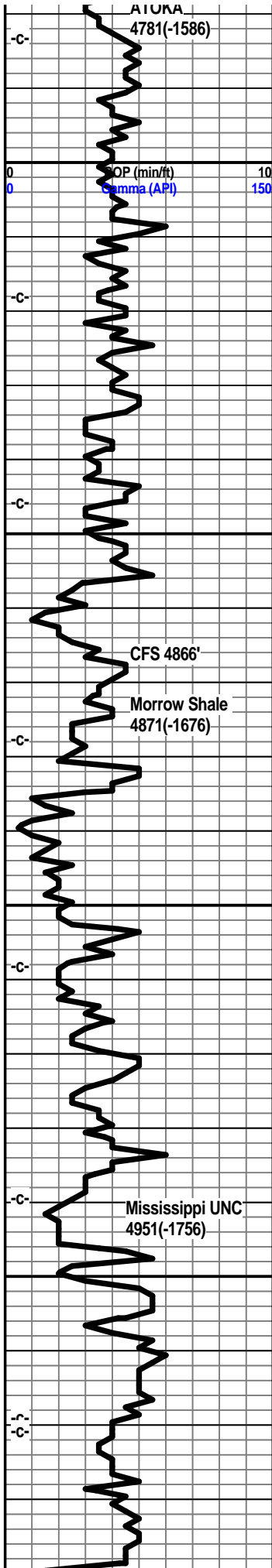
Limestone, cream, tan-white, fxln, dense. shales interdedded, no shows.

Shale, grey.

Limestone, buff-white, fxln, dense, trace foss.

Limestone, tan, tan-white, xln, partly dense, some interbedded shales.





Shale, grey-green.

Limestone, cream-white, tan, fxln, dense.

Shale, grey-green.

Limestone, grey-white, buff, some tan-brown, xln, dense, some shales interbedded, no visible shows.

Shale, grey.

Limestone, cream-tan,, tan, xln, mostly dense, trace chalky.

Limestone, grey-white, tan, fmxln, trace cherty, trace chalky.

Limestone, grey-white, xln, partly dense, trace grey chert, trace pp porosity, shaley, no visible shows, no odor.

Shale, grey-green, silty, ls stringers, some siltstone stringers, no vis shows.

Silty shales, grey, light grey, some grey-green shales, few siltstone clusters, few sand clusters, ls stringers, no vis shows.

Ls, tan, sandy, glauc., few sst clusters, clear, fair cementing, SA, no shows.

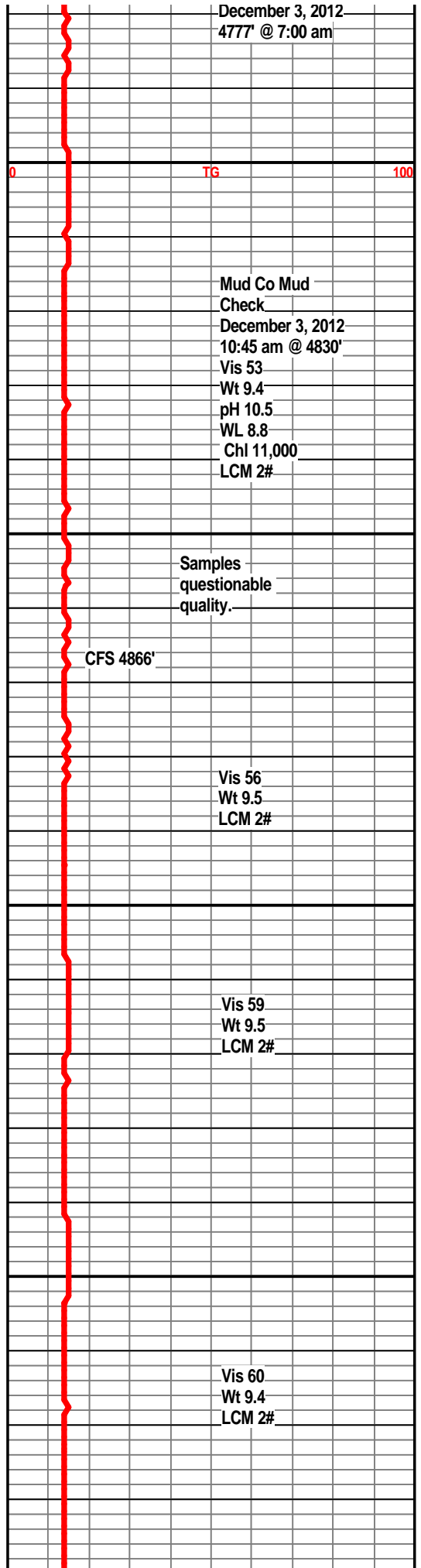
Shale, grey-green, soft, silty, traces sandstone clusters, some chalky ls, gluac, pyrite.

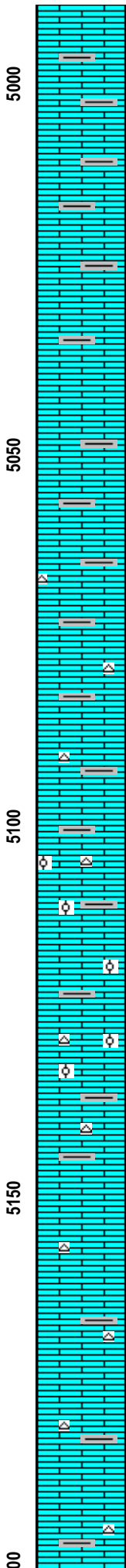
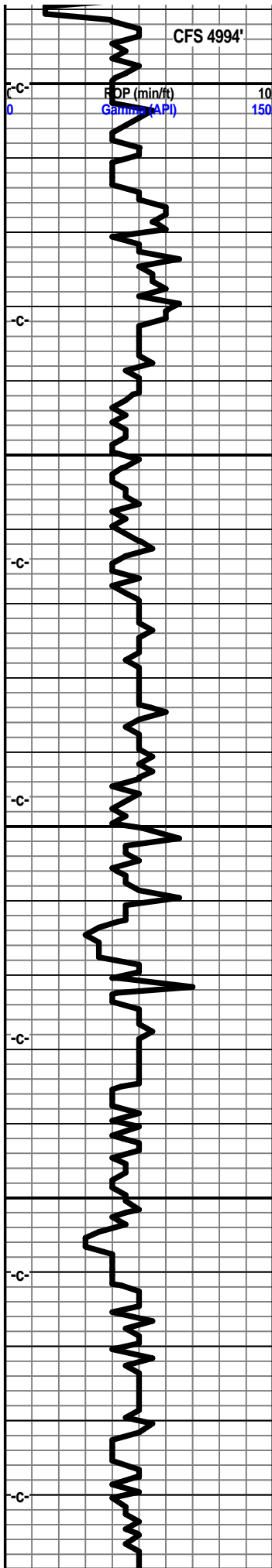
Shale, grey-green, very sandy to silty.

Sandstone, white, fn grained, sr to sa, friable, no vis shows, no odor.

Limestone, off-white, fxln, snady, chalky in part, some oolites, dull mineral fluor, no odor, no vis shows.

Limestone, crm-buff, fxln, sandy in part, chalky, oolitic in part, traces of black shales, no visible shaows.





Limestone, buff-white tan, fnxn, grainy to sandy textures traces of xln porosity, some scattered oolites, dull mineral fluor., scattered grey to pale green splintery shales, no vis shows, no odor.

Limestone, tan, to cream-white, xln, dense, sandy, grainy texture, scattered splintery shales, some oolites, traces of glauc.

Limestone, tan, xln, dense, grainy texture, trace chalky, glauc., grey-green splintery shales.

Limestone, tan, cream-white, xln, dense, traces of chalk, grainy, grey-green, some red splintery shales, traces translucent chert.

Limestone, tan, cream-white, grey, green, reddish orange shales, tan, trans, orangish cherts, no visible shows.

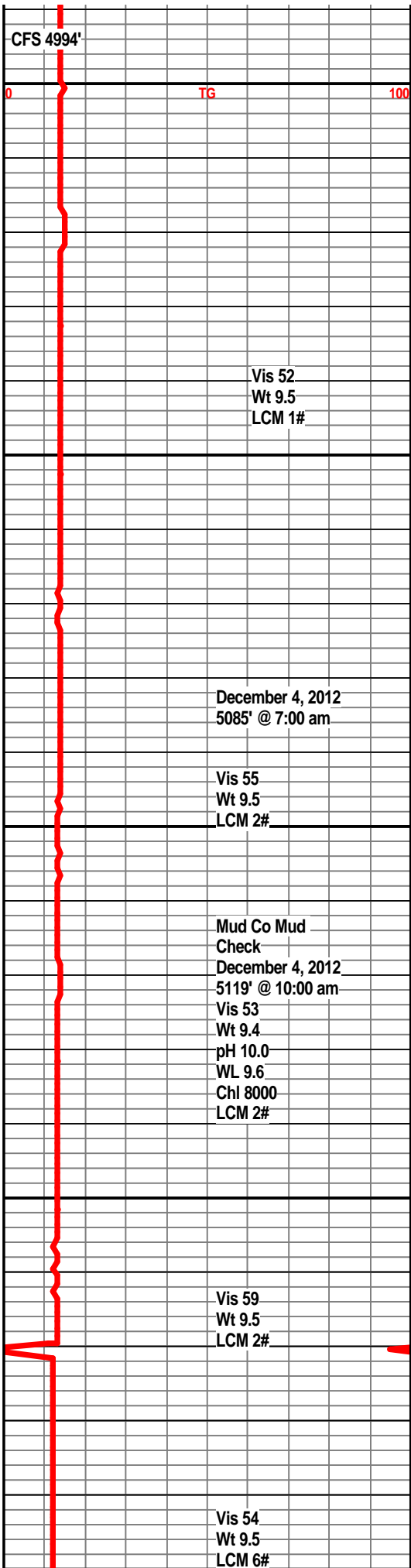
Limestone, cream-white, xln, mostly dense, oolites, grey-green splintery shales, some vari-colored cherts, mostly tan, no vis shows, no odor.

Limestone, cream, buff-white, xln, dense, trace oolites, tan to vari-colored cherts, splintery shales.

Limestone, tan, tan-brown, cream, xln, dense, trace grey shales, tan chert, no visible shows.

Limestone, tan, some tan-brown, xln, dense, traces tan cherts, some cream-tan, traces of green shales, few fossils.

Limestone, tan, cream, tan-brown, fxln, dense, traces of grey-green shales, tan cherts, dull mineral fluor, no shows, no odor.



Vis 52
Wt 9.5
LCM 1#

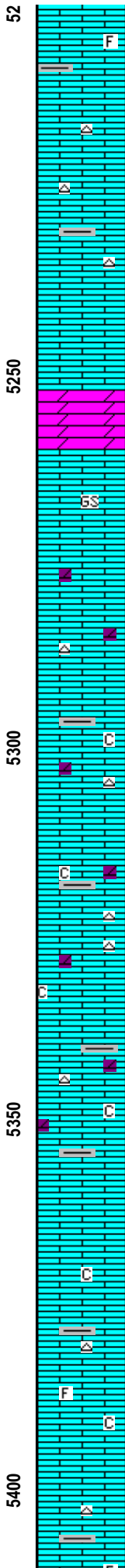
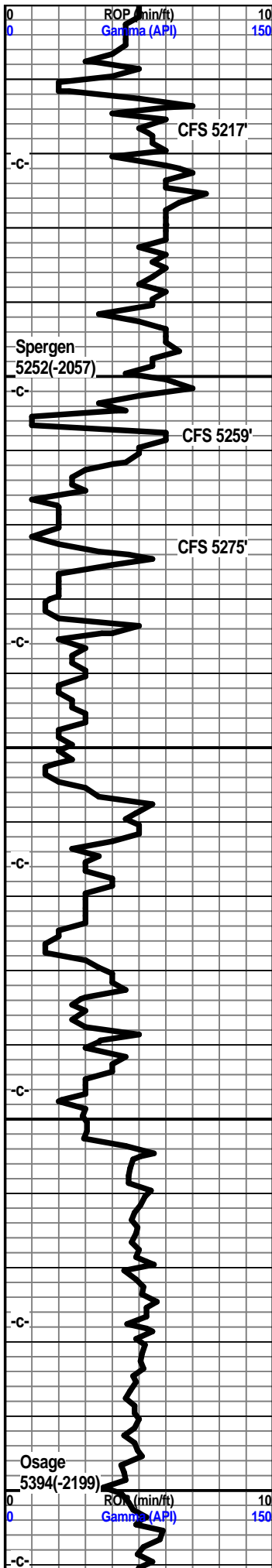
December 4, 2012
5085' @ 7:00 am

Vis 55
Wt 9.5
LCM 2#

Mud Co Mud
Check
December 4, 2012
5119' @ 10:00 am
Vis 53
Wt 9.4
pH 10.0
WL 9.6
Chl 8000
LCM 2#

Vis 59
Wt 9.5
LCM 2#

Vis 54
Wt 9.5
LCM 6#



Limestone, tan, cream-tan, xln, partly dense, traces of xln porosity, grainy texture, traces of tan chert, no vis shows, no odor.

Limestone, tan, cream-white, dense, xln, tan cherts, some grey shale.

Dolo, cream-white, fnxln, fine grained, friable, sandy texture, no odor, no visible shows, dull mineral flour.

Limestone, tan, coarse grained, friable traces inter xln porosity, trace few small vugs, no odor, no visible show, no flour.

Limestone, grey-white, tan, xln, mottled, shale inclusion, trace vuggy porosity, traces of white chert, slight trace chalky ls, dolo in part, no visible shows, no odor.

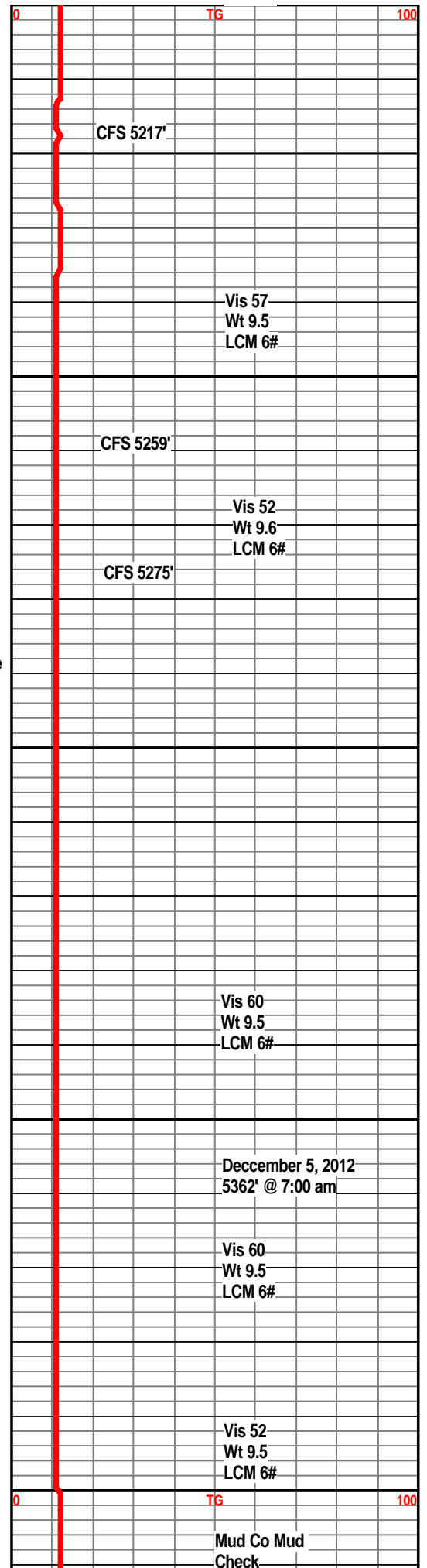
Limestone, grey-white, fxl, partly dense, mottled, trace fossils, chaky in part, slightly dolo, trace white cherts, some shale inclusions, traces of vug porosity,

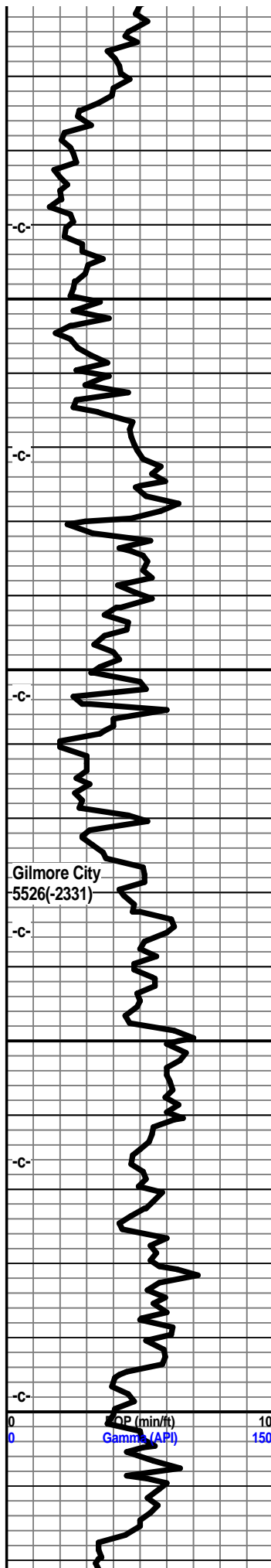
Limestone, tan-white, grey-white, mottled, trace foss, trace shale, trace vug porosity, lightly chalky, white to trans cherts, no vis shows.

Limestone, tan, grey-white, xln, dolomitic, mottled, chalky in part, trace shales, no vis shows.

Limestone, grey-white, tan, xln, dense, trace foss, trace tan to grey chert, mottled in part, some chalky.

Limestone, tan-white, grey-white, xln, partly dense, trans to off-white chert, trace foss, shaley in part, slightly chaky, no vis shows.





Limestone, cream to buff-white, tan, grey-white, xln, traces of xln porosity, off-white to trans cherts, grey shales, some chaky ls., no vis shows, no odor.

Limestone, tan, cream-buff, xln, trace xln porosity, blue-grey cherts, slightly chaky, slightly dolo in part, no vis shows.

Limestone, tan-white, buff, xln, dense, off-white cherts, trace grey shales.

Limestone, grey-white, xln, dense, grey-white cherts, no shows.

Limestone, tan, grey-white, xln, dense, abundant grey-white sharp cherts, no visible shows.

Limestone, tan, cream-white, xln, dense, traces of off-white cherts, slightly chalky.

Limestone, buff-white, xln, dense, slightly foss, chalky in part.

Limestone, tan, tan-brown, xln, dense, foss, trace tan chert, trace chalky.

Limestone, tan, tan-brown, cream, xln, oolitic.

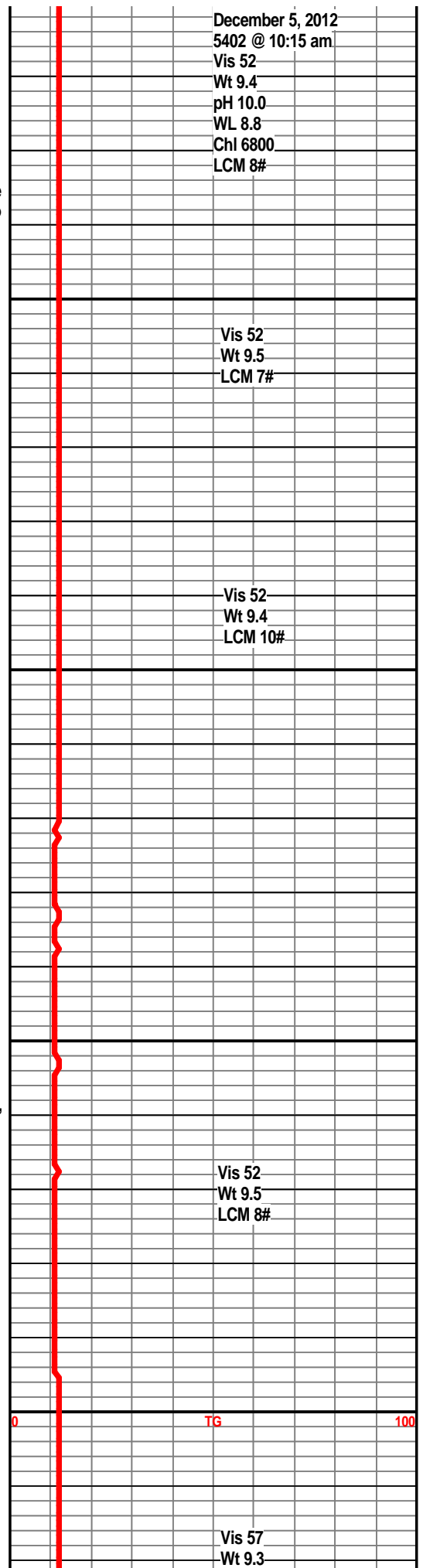
December 5, 2012
 5402 @ 10:15 am
 Vis 52
 Wt 9.4
 pH 10.0
 WL 8.8
 Chl 6800
 LCM 8#

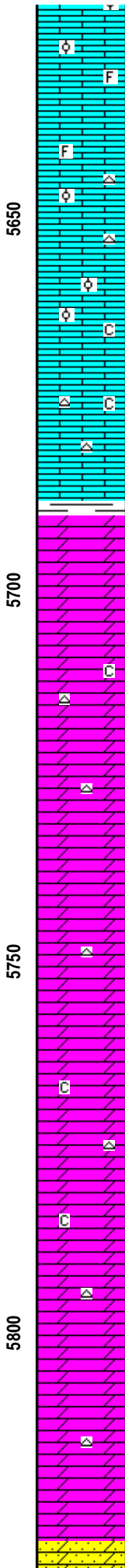
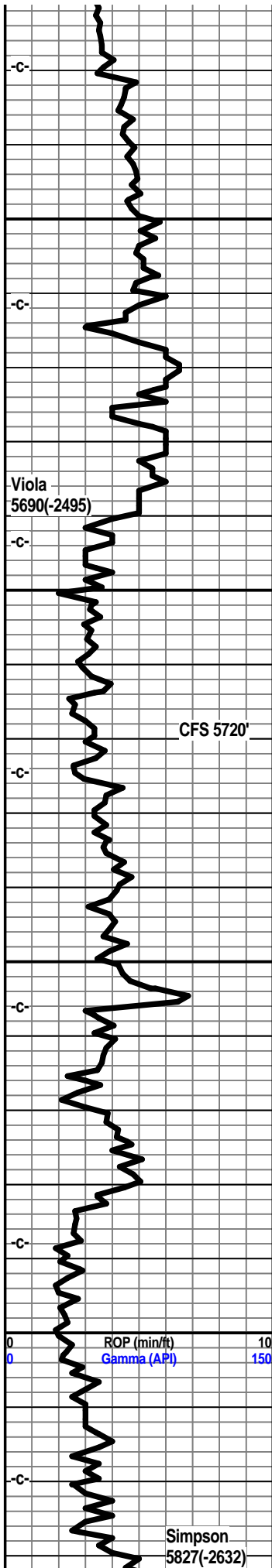
Vis 52
 Wt 9.5
 LCM 7#

Vis 52
 Wt 9.4
 LCM 10#

Vis 52
 Wt 9.5
 LCM 8#

Vis 57
 Wt 9.3





trace chalky, no vis shows., no odor.

Limestone, tan, buff, xln, dense, foss in part, no vis shows.

Limestone, tan-white, tan, xln, oolitic, fossils, trace chalk, off-white to grey chert, no vis shows, no odor.

Limestone, tan, cream-white, xln, dense, trace white chert, trace grey dolo, no shows, no odor.

Dolo, tan-white, cream, xln, fn grained, succ texture, succ porosity, tite, dull mineral fluor, no vis shows, no odor.

Dolo, cream, tan-white, xln, succ, xln porosity, fair porosity, small scattered vugs, trace chalky ls, no visible shows. no odor.

Dolo, tan, tan-white, xln, dense, succ texture, some succ porosity, few small scattered vugs, trace of white chert, no visible shows.

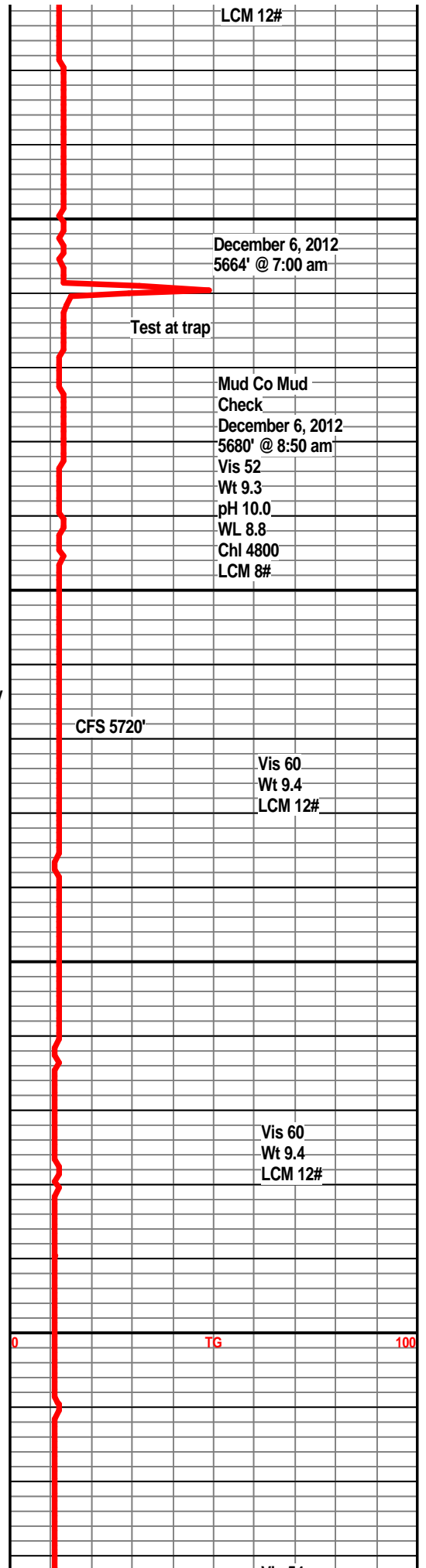
Dolo, tan-white, buff, xln, succ, fine grained, some pyrite inclusions, white chert, no shows.

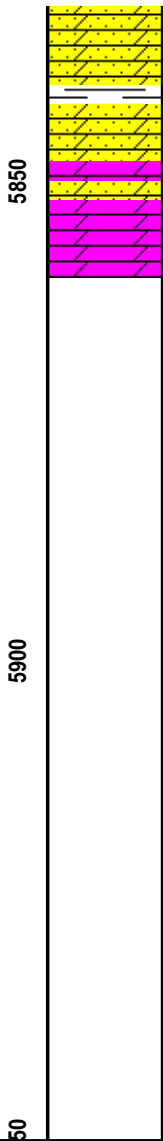
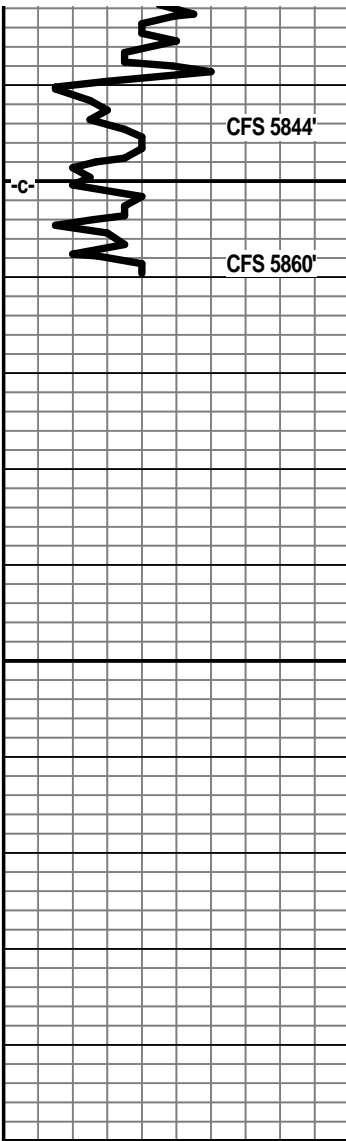
Dolo, tan, xln, succ in part, partly dense, trace chalk, trace pyrite, white chert, no visible shows.

Dolo, tan-white, xln, succ, white chert, succ porosity, cattered small vugs, trace chalk, no visible shows, no odor, dull mineral fluor.

Dolo, tan, cream-buff, xln, succ, white chert, trace tan specked chert, no vis shows.

Dolo. white. sandv. well cemented. anular





Dolo, white, sandy, thin cemented, argillaceous grains, trace glauc, no shows. (very few samples.)

Shale, dark green.

Dolo, white, very fine grained, sugar texture, some pyrite, sa grains, intergranular porosity, no vis shows, no odor.

| | | |
|-----------|--|--------------------|
| | | Vis 54 |
| | | Wt 9.4 |
| | | LCM 8# |
| CFS 5844' | | |
| CFS 5860' | | |
| | | RTD 5860' |
| | | LTD 5859' |
| | | December 7, 2012 |
| | | 5860' @ 7:00 am |
| | | Survey @ 5860' 3/4 |
| | | degree |