



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: _____



1138637

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 | RICKE-BAIER 1 H |
| Doc ID | 1138637 |

All Electric Logs Run

| |
|-------------------|
| |
| ARCT |
| POROSITY |
| MICRO |
| STRAIGHT MD & TVD |
| CURVE MD & TVD |
| LATERAL MD & TVD |

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Woolsey Operating Company, LLC |
| Well Name | RICKE-BAIER 1 H |
| Doc ID | 1138637 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|------------------------------------|--|-------|
| | FRAC PORTS: 9112, 8710, 8422, | 2000 gal 15% MIRA acid, 276 bbl slickwtr, 34K #30/50 sd | 9112 |
| | 8224, 8026, 7828, 7635, 7432,7234, | 1000 gal 7.5% MIRA, 594 bbl slickwtr, no sd, couldn't est rate | 8710 |
| | 6990, 6746, 6549, 6309, 6109, 6868 | 1000 gal 7.5% MIRA, 290 bbl slickwtr, no sd | 8422 |
| | | 1000 gal 7.5% MIRA, 501 bbl slickwtr, no sd | 8224 |
| | | 1000 gal 7.5% MIRA, 597 bbl slickwtr, no sd | 8026 |
| | | 1000 gal 7.5% MIRA, 2000 gal 10% MIRA, 1636 bbl slick wtr, 2609# 30/60 sd | 7828 |
| | | 2000 gal 10% MIRA, 2755 bbl slickwtr, 33,881# 30/60 sd | 7635 |
| | | 2000 gal 10% MIRA, 265 bbl slickwtr, no sd | 7432 |
| | | 2287 gal 10% MIRA, 6 bbl slickwtr, no sd | 7234 |
| | | 2000 gal 10% MIRA, 5967 bbl slickwtr, 29,200# 30/60 sd & 1000# 16/30 resin coated sd | 6990 |

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Woolsey Operating Company, LLC |
| Well Name | RICKE-BAIER 1 H |
| Doc ID | 1138637 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|--|-------|
| | | 2000 gal 10% MIRA, 2841 bbl slickwtr, 36,860# 30/60 sd & 1050# 16/30 resin coated sd | 6746 |
| | | 2000 gal 10% MIRA, 3935 bbl slickwtr, 58,340# 30/60 sd & 990# 16/30 resin coated sd | 6549 |
| | | 1500 gal 10% MIRA, 2774 bbl slickwtr, 36,840# 30/60 sd & 1000# 16/30 resin coated sd | 6309 |
| | | 1500 gal 10% MIRA, 5600 bbl slickwtr, 57,000# 30/60 sd & 1050# 16/30 resin coated sd | 6109 |
| | | 1000 gal 10% MIRA, bbl slickwtr, 31,286# 30/60 sd & 3185# 16/30 resin coated sd | 5868 |

| | |
|-----------|--------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Woolsey Operating Company, LLC |
| Well Name | RICKE-BAIER 1 H |
| Doc ID | 1138637 |

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 | 53 | 75 | GROUT | 9 | (YDS NOT SX GROUT) |
| SURFACE | 17.5 | 13.375 | 54.5 | 317 | CLASS A | 300 | 3% CC, 2% GEL |
| SURFACE | 12.25 | 9.625 | 36 | 925 | LITE / CLASS A | 475 | (SEE ATTACHED) |
| PRODUCTION | 8.75 | 7 | 23 | 5752 | POZ / CLASS H | 200 | (SEE ATTACHED) |

30

29

OSAGE
1
HENDRIX
1957
4,900

J M HUBER
1
RAMBO
1948
5,325

GULF
1-B
ANGELL
1946
5,343

MOLZ
1 OWWO
RICKE
1982
4,800

PATTON
1-B
HOLMES
1973
4,847

CLARK
2
RICKE
2000
4,600

WPC
2-A
BELL
1999
4,800

RICKE-BAIER #1 HORIZONTAL DRILLING UNIT.

Effective Producing Interval

WOC
2-F
RICKE
2004
5,360

WPC
1-B OWWO
HENDRIX
1978
5,286

WPC
1-F
RICKE
1988
5,025

VPC
3
OTH
390

31

WPC
3-A OWWO
SPRIGGS
1996
5,445

32

WPC
2-A OWWO
SPRIGGS
1989
5,000

WPC
3-B OWWO
SPRIGGS
1996
4,965

WPC
1
BAIER
1988
4,950

WOC
3 GU
BAIER
2004
5,235

WPC
1-A
SPRIGGS
1988
5,040

TXO
2
BAIER
1979
5,140

WOC
1-H
RICKE-BAIER
2012
9,301

OXY
3-B OWWO
OTT
1994
5,502

OXY
3-B
OTT
1991
5,080

CMX
1-6
KINCAID
1989
4,900

Woolsey Operating Company
Ricke-Baier #1-H
SHL: Lat; 37.1242920, Lon; -98.7710307
BHL: Lat; 37.1365181, Lon; -98.7689015

OXY
4-B
OTT
1996
5,200

TXO
1-C
HENDRIX
1989
5,090

WPC
4-C OWWO
HENDRIX

OBIL
1
KINCAID EST
865

WPC
3-C
HENDRIX
1996
5,500

6

Woolsey Operating Company

Ricke-Baier #1-H

KCC AC0-1 EXHIBIT

31-T33S-R13W

Barber County, KS

- WELL SYMBOLS
- Abandoned GAS Well
 - Dry & Abandoned
 - Dry Hole, With Good Show of Gas
 - Dry Hole With Poor Gas Show
 - Gas Well
 - Oil & Gas Well

REMARKS
CONFIDENTIAL

By: DLP

P.O. # _____

BIG BUCKETS RATHOLE DRILLING

No: 5095

ORDERED BY

P.O. Box 5252
Enid, Oklahoma 73702
Phone (580) 233-9850
Fax (580) 233-4588

Date 11/13/12

Bill To

*Mike Sharp
Hooley Operating*

Lease

Ribe-Bauer #1-H

Address

Legal

Sec 31-33S-13W

County

Barber KS

Rig

Dan D Drilg #11

| DESCRIPTION | AMOUNT |
|---|------------------------|
| Furnish Men & Equipment To | |
| <i>drill rat, mouse holes, 5' of 60" cellar & 75 ft. of 30" hole & remove dirt off loc.</i> | |
| Materials Furnished | |
| <i>75 ft. of 20" pipe - 5' of 60" tinhorn (cellar) 50 ft. of 15" tinhorn (Boat R & M holes) 9 yds of 8 lb. Grout - welder & materials - mud tile w/ drilg mud - \$ K's trip permits (2 trips) 75 ft @ \$148.⁰⁰ / ft.</i> | \$ 11100 ⁰⁰ |
| | } |
| Operator <i>Brian Whittington</i> | |
| Approved By _____ | |
| Total | \$ 11100 ⁰⁰ |

ALLIED CEMENTING CO., LLC. 32712

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge KS

| | | | | | | | |
|------------------------------------|-------------------|--|-----------|-----------------------------------|-----------------|-----------|--------------------|
| DATE 11/22/12 | SEC. 31 | TWP. 33s | RANGE 13w | CALLED OUT | ON LOCATION | JOB START | JOB FINISH 5:45 AM |
| LEASE <u>Ricke-Baker</u> | WELL # <u>1-H</u> | LOCATION <u>1609 Gyp Hill Rd, south to Union</u> | | COUNTY <u>Paducah</u> | STATE <u>KS</u> | | |
| OLD OR NEW (Circle one) <u>NEW</u> | | | | <u>Chapel, 5w, 1ks, Ke, Spato</u> | | | |

| | |
|--|--|
| CONTRACTOR <u>Dan D #</u> | OWNER <u>Woolsey 101</u> |
| TYPE OF JOB <u>Surface</u> | CEMENT |
| HOLE SIZE <u>17 3/4"</u> | AMOUNT ORDERED <u>300sf class A + 3% cc + 2% gel</u> |
| CASING SIZE <u>13 3/8" 54ft</u> | T.D. <u>320</u> |
| TUBING SIZE | DEPTH <u>317</u> |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX <u>300</u> | MINIMUM |
| MEAS. LINE | SHOE JOINT <u>20ft</u> |
| CEMENT LEFT IN CSG. <u>20'</u> | |
| PERFS. | |
| DISPLACEMENT <u>45% B66's Fresh H₂O</u> | |

| | |
|------------------|----------------------------|
| EQUIPMENT | |
| PUMP TRUCK | CEMENTER <u>D. Felin 1</u> |
| # <u>360-302</u> | HELPER <u>R. Gilley 1</u> |
| BULK TRUCK | |
| # <u>381-250</u> | DRIVER <u>J. Bower 2</u> |
| BULK TRUCK | |
| # | DRIVER |

| | | | | |
|----------|-----------------------|----------------|---------------------------|----------------|
| COMMON | <u>class A</u> | <u>300sf</u> | @ <u>17.1⁰</u> | <u>5370.00</u> |
| POZMIX | | | @ | |
| GEL | <u>6sf</u> | @ <u>23.40</u> | | <u>140.40</u> |
| CHLORIDE | <u>11.5X</u> | @ <u>64.00</u> | | <u>704.00</u> |
| ASC | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| | | @ | | |
| HANDLING | <u>324.4</u> | @ <u>2.48</u> | | <u>804.51</u> |
| MILEAGE | <u>14.8x 20x 2.60</u> | | | <u>769.60</u> |
| | | | | <u>7788.51</u> |

REMARKS:
See Job Log -
Mixed 300sf A-342 cement
Cement did Circ.
THX :-)

| | | | | |
|----------------------|-------------|---------------|--|----------------------|
| SERVICE | | | | |
| DEPTH OF JOB | <u>317'</u> | | | |
| PUMP TRUCK CHARGE | | | | <u>1512.85</u> |
| EXTRA FOOTAGE | @ | | | |
| MILEAGE | <u>20</u> | @ <u>7.70</u> | | <u>154.00</u> |
| MANIFOLD | <u>NA</u> | @ <u>NC</u> | | |
| <u>Light Vehicle</u> | <u>20</u> | @ <u>440</u> | | <u>88.00</u> |
| | | @ | | |
| | | | | <u>TOTAL 1754.25</u> |

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

WELL FILE
 Regulatory Correspondence
 Drlg / Comp Workovers
 Tests / Meters Operations

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.

| | | | | |
|------------------------|---|--|--|--------------|
| PLUG & FLOAT EQUIPMENT | | | | |
| <u>NONE</u> | @ | | | |
| | @ | | | |
| | @ | | | |
| | @ | | | |
| | @ | | | |
| | @ | | | |
| | | | | <u>TOTAL</u> |

PRINTED NAME MIKE FLARP
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES 9542.76
 DISCOUNT 20% 1908.55 IF PAID IN 30 DAYS
7634.21

DEC 31 2012

ALLIED OIL & GAS SERVICES, LLC 053947

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:

Medicine Lodge, KS

| | | | | | | | |
|----------------------------|-------------------|---|--|------------|----------------------|-------------------|------------|
| DATE <u>11/23/12</u> | SEC. <u>31</u> | TWP. <u>33s</u> | RANGE <u>13w</u> | CALLED OUT | ON LOCATION | JOB START | JOB FINISH |
| LEASE <u>Ricke - Baier</u> | WELL.# <u>1-H</u> | LOCATION <u>160+ Gyphill Rd, South to Union</u> | | | COUNTY <u>Barber</u> | STATE <u>KS</u> | |
| OLD OR (NEW) (Circle one) | | | Chapel, S. out to T, 1/2 S. out, 1/2 East @ Y Before | | | Hours, South into | |

| | |
|----------------------------------|--|
| CONTRACTOR <u>Dan D. #11</u> | OWNER <u>Woolsey</u> |
| TYPE OF JOB <u>Intermediate</u> | |
| HOLE SIZE <u>12 1/4</u> | T.D. <u>954</u> |
| CASING SIZE <u>9 5/8</u> | DEPTH <u>924</u> |
| TUBING SIZE | DEPTH |
| DRILL PIPE | DEPTH |
| TOOL | DEPTH |
| PRES. MAX <u>1200</u> | MINIMUM |
| MEAS. LINE | SHOE JOINT <u>34.98</u> |
| CEMENT LEFT IN CSG. <u>34.98</u> | |
| PERFS. | |
| DISPLACEMENT <u>69 BBLs</u> | |
| EQUIPMENT | |
| PUMP TRUCK # <u>558/555</u> | CEMENTER <u>Soren Thorsen / David Febo</u> |
| | HELPER <u>Paris Franklin</u> |
| BULK TRUCK # <u>511/553</u> | DRIVER <u>Brandon Boor</u> |
| BULK TRUCK # | DRIVER |

| | | |
|----------------|----------------------|--|
| CEMENT | | |
| AMOUNT ORDERED | <u>225 sx</u> | <u>65:35:6% Gel + 3% cc + 1/4 # Floxal, 250 sx Class A + 7% cc + 2% Gel + 1/4 # Floxal, 15 BBL Stop Loss, 30 mesh At 2% cc</u> |
| COMMON | <u>280 sx</u> | @ <u>17.90</u> <u>5012.00</u> |
| POZMIX | | @ |
| GEL | <u>5 sx</u> | @ <u>23.40</u> <u>117.00</u> |
| CHLORIDE | <u>17 sx</u> | @ <u>64.00</u> <u>1088.00</u> |
| ASC | | @ |
| ALW | <u>225 sx</u> | @ <u>16.50</u> <u>3712.50</u> |
| Floxal | <u>125 #</u> | @ <u>2.97</u> <u>371.25</u> |
| Stoploss | <u>15 Bbls</u> | @ <u>337.00</u> <u>5057.00</u> |
| | | @ |
| | | @ |
| | | @ |
| | | @ |
| HANDLING | <u>566.48</u> | @ <u>2.48</u> <u>1404.87</u> |
| MILEAGE | <u>25.21/20/2.60</u> | @ <u>1311.24</u> |
| | | TOTAL <u>18083.86</u> |

REMARKS:
Did not circ cement, cement down 100ft, topped off

WELL FILE

Regulatory Correspondence
Drig / Comp Workovers
Tests / Meters Operations

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

To: Allied Oil & Gas Services, LLC.
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME MIKE THARP
SIGNATURE MD Flap

| | | |
|-------------------|----------------|-----------------------------|
| SERVICE | | |
| DEPTH OF JOB | | |
| PUMP TRUCK CHARGE | <u>2058.50</u> | |
| EXTRA FOOTAGE | @ | |
| MILEAGE | <u>20</u> | @ <u>7.70</u> <u>154.00</u> |
| MANIFOLD | @ | <u>275.00</u> |
| <u>LU</u> | <u>20</u> | @ <u>4.40</u> <u>88.00</u> |
| | @ | |
| | | TOTAL <u>2575.50</u> |

| | | |
|------------------------|---|----------------------|
| PLUG & FLOAT EQUIPMENT | | |
| <u>1- Guide shoe</u> | @ | <u>553.41</u> |
| <u>1- AEU insert</u> | @ | <u>392.17</u> |
| <u>1- Rubber plug</u> | @ | <u>184.86</u> |
| | @ | |
| | @ | |
| | | TOTAL <u>1090.44</u> |

SALES TAX (If Any) 0
TOTAL CHARGES 21,749.80
DISCOUNT 20% 4349.96 IF PAID IN 30 DAYS
Net 17,399.84

011 01 2012

ALLIED CEMENTING CO., LLC. 038103

Federal Tax I.D.# 20-5975804

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

SERVICE POINT:
Medicine Lodge

| | | | | | | | |
|--|---------------|-------------------|---|---------------------------|----------------------------|-----------------------|------------------------|
| DATE <i>12-5-12</i> | SEC <i>31</i> | TWP <i>33S</i> | RANGE <i>13W</i> | CALLED OUT <i>7:00 AM</i> | ON LOCATION <i>9:30 AM</i> | JOB START <i>6:45</i> | JOB FINISH <i>7:45</i> |
| LEASE <i>Ricki-Baker</i> | | WELL # <i>1-H</i> | LOCATION <i>1604 E. Gyp Hill Rd, S to Union</i> | | COUNTY <i>Barber</i> | STATE <i>Ks</i> | |
| OLD OR NEW (Circle one) <input checked="" type="radio"/> NEW | | | <i>Chapel, SW, 1/2 S, 1/2 E, S into</i> | | <i>1.00</i> | | |

CONTRACTOR *Dgn D*
 TYPE OF JOB *Production*
 HOLE SIZE *8 1/2"* T.D. *5760'*
 CASING SIZE *7"* DEPTH *6757'*
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT *40.35*
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT *226 Bbls*
 EQUIPMENT _____

OWNER *Woolsey Operating Co*
 CEMENT AMOUNT ORDERED *50 Sx 60:40:47 GEL*
150 Sx Class "H" 4.10% Gyp 10% Salt
1" Kalseal + .5% FT 160 4 1/4" Flo Seal

| | | |
|--------------------------|--------------------|-----------------|
| COMMON <i>Class "A"</i> | <i>30 @ 17.90</i> | <i>537.00</i> |
| POZMIX | <i>20 @ 9.35</i> | <i>187.00</i> |
| GEL | <i>2 @ 23.40</i> | <i>46.80</i> |
| CHLORIDE | @ | |
| ASC | @ | |
| <i>Class "H"</i> | <i>150 @ 31.20</i> | <i>3,180.00</i> |
| <i>Gyp</i> | <i>14 @ 37.60</i> | <i>526.40</i> |
| <i>Salt</i> | <i>16 @ 26.35</i> | <i>421.60</i> |
| <i>Kalseal</i> | <i>900 @ .78</i> | <i>882.00</i> |
| <i>Fl-160</i> | <i>70 @ 18.90</i> | <i>1,323.00</i> |
| <i>Flo Seal</i> | <i>37 @ 2.97</i> | <i>109.89</i> |
| | @ | |
| | @ | |
| HANDLING <i>256</i> | @ <i>2.48</i> | <i>634.88</i> |
| MILEAGE <i>10.89/201</i> | @ <i>2.60</i> | <i>566.28</i> |
| TOTAL | | <i>8,414.85</i> |

PUMP TRUCK CEMENTER *Don Gilley 1*
 #558-555 HELPER *Scott Priddy 2*
 BULK TRUCK
 #561 DRIVER *James Bowen 3*
 BULK TRUCK
 DRIVER *David Felio 1*

REMARKS:

WELL FILL *See Cement Log*

Regulatory Correspondence _____
 Drilling Comp Workovers _____
 Tools / Meters Operations _____

CHARGE TO: *Woolsey Operating*
 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 *X MIKE THARP*

SIGNATURE *X Mike Tharp*

SERVICE

DEPTH OF JOB *5760'*
 PUMP TRUCK CHARGE *3,099.25*
 EXTRA FOOTAGE @ _____
 MILEAGE *2.0 @ 7.70* *15.40*
 MANIFOLD *Head* @ _____ *285.00*
Light Veh. *20 @ 4.40* *88.00*

TOTAL *3616.85*

7" PLUG & FLOAT EQUIPMENT

1-Sure Seal Shoe @ _____ *712.53*
1-Sure Seal Collar @ _____ *886.86*
1-Rubber Plug @ _____ *99.45*
~~*5-Spread Bitbars*~~ @ _____
~~*5-Stop Rings*~~ @ _____

TOTAL *1698.84*

SALES TAX (If Any) *0*
 TOTAL CHARGES *13,729.94*
 DISCOUNT *20% 2745.99* IF PAID IN 30 DAYS

Net *10,983.95*

JAN 07 2013



Woolsey Operating Company, LLC

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

Measured Depth Log

Well Name: Ricke-Baier #1 H
Location: Section 31 - Township 33 South - Range 13 West
License Number: 15-007-23966-01-00 Region: Barber County, Kansas
Spud Date: November 13, 2012 Drilling Completed:
Surface Coordinates: App NW SW SE SE
450' FSL and 995' FWL

Bottom Hole Coordinates:

Ground Elevation (ft): 1879' K.B. Elevation (ft): 1886'

Logged Interval (ft): 3600' To: Total Depth (ft):

Formation: Topeka -----> Mississippi

Type of Drilling Fluid: Chemical Mud, Brine Water/Flozan

Printed by MUD.LOG 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: Billy G. Klaver
Company: Woolsey Operating Co. LLC
Address: 125 N. Market, Wichita Kansas, 67202

COMMENTS

Surface Casing: Ran 20" X 53#/ft conductor to 75' with 9 yards of grout. Ran 7 joints new 13 3/8" X 54.5#/ft casing to 317' KB with 300 sx Class A, 2% gel, 3% cc. Plug down 5:45 am on 11/22/12. Cement did circulate. Intermediate casing: ran 22 joints of new 9 5/8" X 36#/ft casing to 925' KB with 225 sx. Cement did not circulate.

Dan D Drilling Rig 11 Bit Record: 1) 17 1/2" STC RR out at 320', 2) 12 1/2" STC RR out at 954', 3) 8 3/4" RTC F-1100 PDC out at 4340',

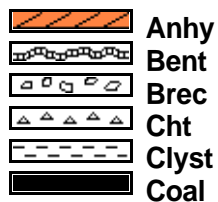
Gas Detector: Woolsey Operating Co, Gas Trailer #2
Mud System: Mud Co. Brad Bortz, Engineer

Drilling Info

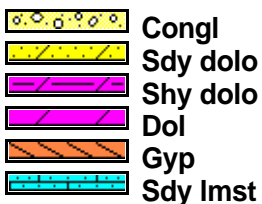
CREWS

Steve Ellington-Tool Pusher, Sammy Fry-Relief Tool Pusher. Drillers: (12 hour-7 day). Johnnie Stone, David Herring, Jeffery Meyers, Terry Stark

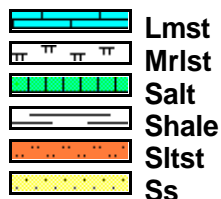
ROCK TYPES



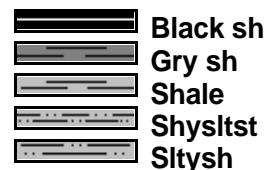
Anhy
Bent
Brec
Cht
Clyst
Coal



Congl
Sdy dolo
Shy dolo
Dol
Gyp
Sdy lmst



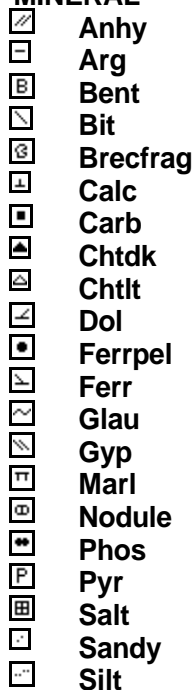
Lmst
Mrlst
Salt
Shale
Slstst
Ss



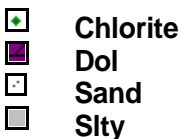
Black sh
Gry sh
Shale
Shyslstst
Sltysh

ACCESSORIES

MINERAL

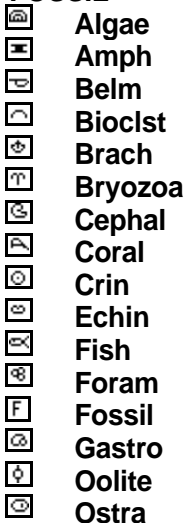


Anhy
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Ferrpel
Ferr
Glau
Gyp
Marl
Nodule
Phos
Pyr
Salt
Sandy
Silt

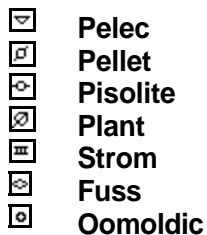


Chlorite
Dol
Sand
Slty

FOSSIL

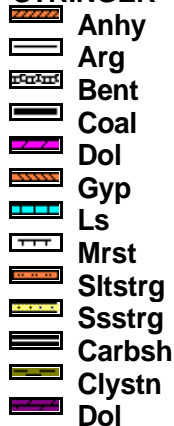


Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra



Pelec
Pellet
Pisolite
Plant
Strom
Fuss
Oomoldic

STRINGER

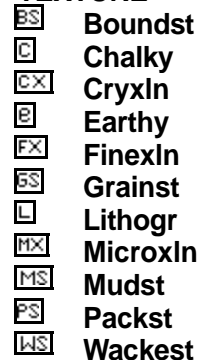


Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Slststrg
Ssstrg
Carbsh
Clystn
Dol

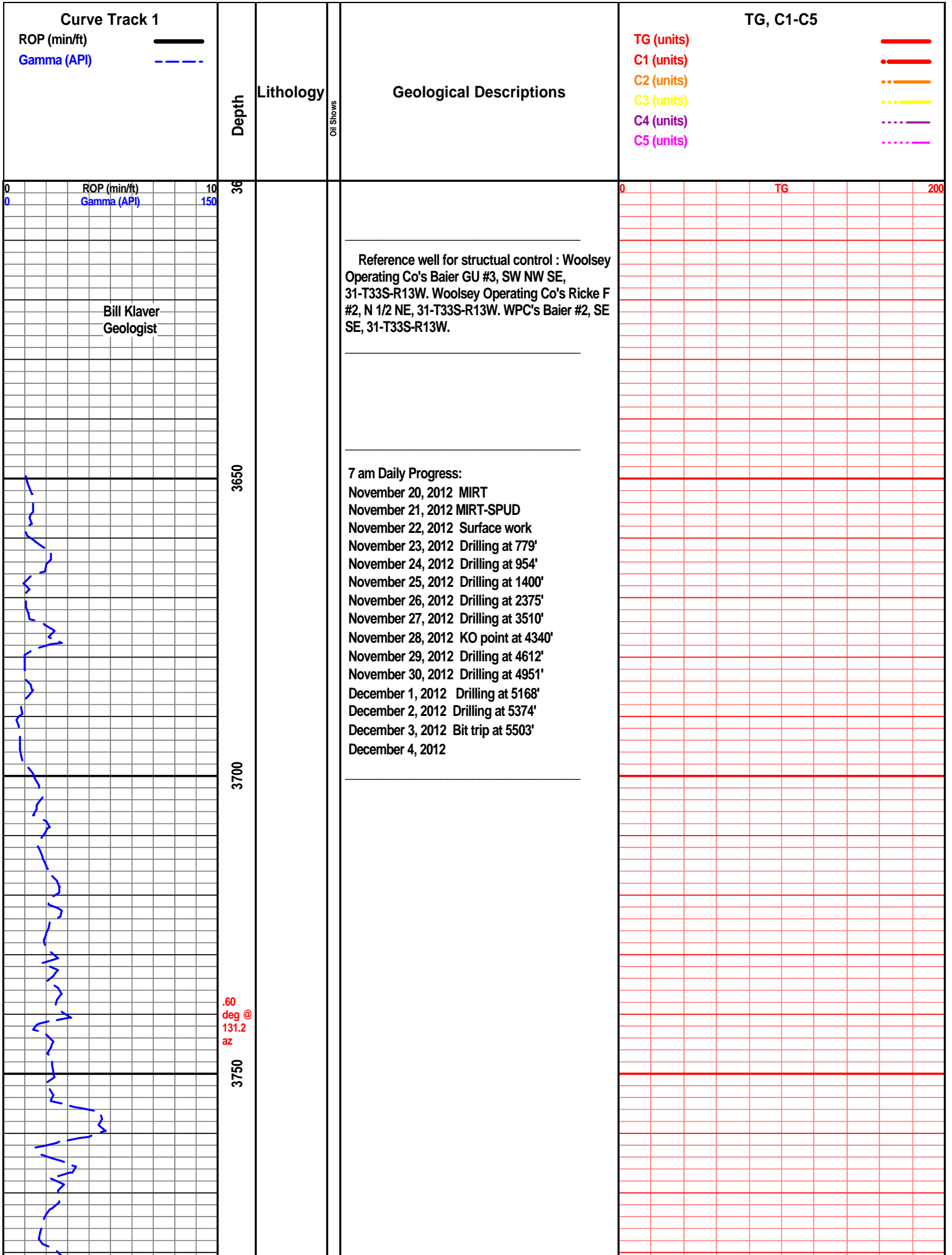


Grysh
Gryslt
Lms
Sandylms
Sh
Slststn

TEXTURE



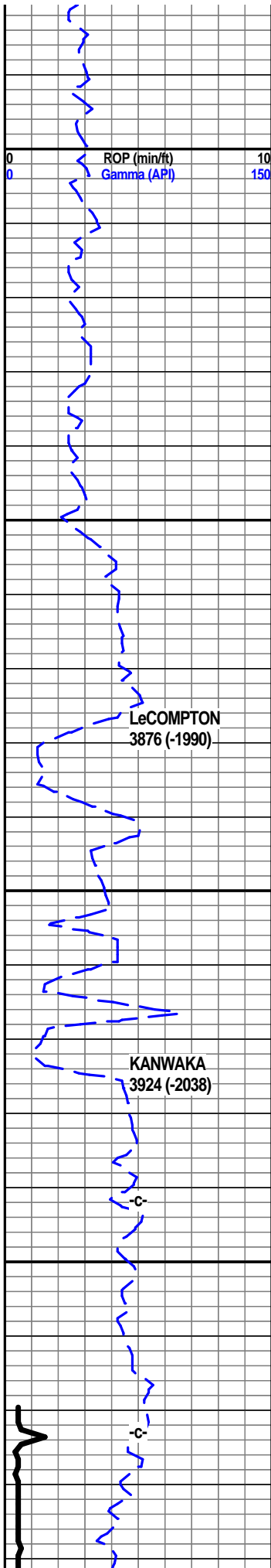
Boundst
Chalky
Cryxln
Earthy
Finexln
Grainst
Lithogr
Microxln
Mudst
Packst
Wackest



Bill Klaver
Geologist

Oil Shows

.60
deg @
131.2
az



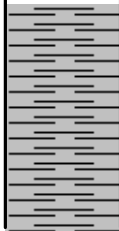
3800

3850

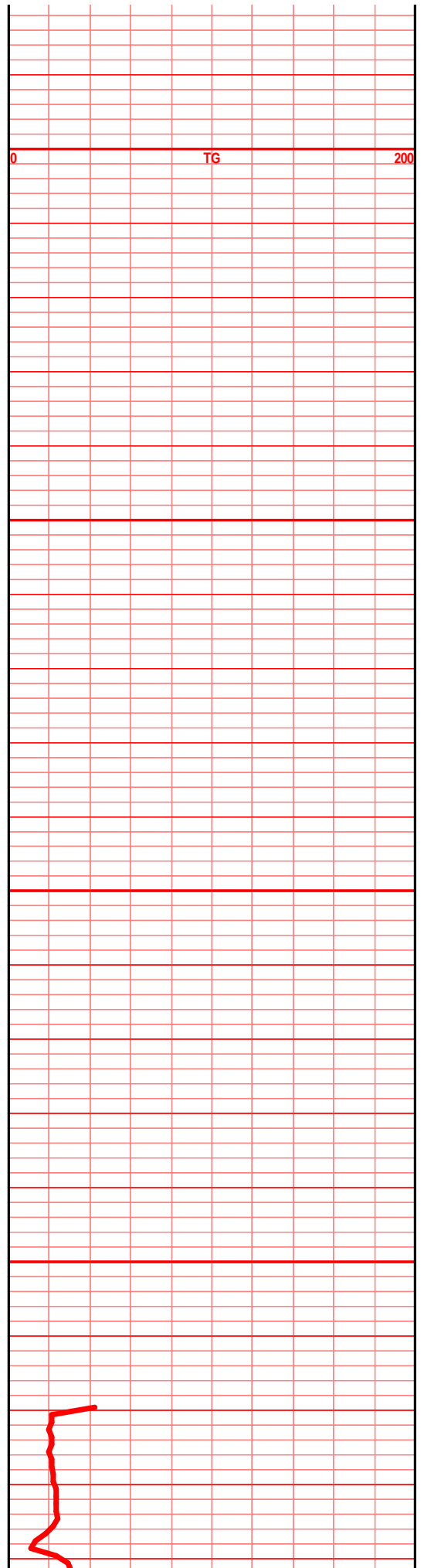
3900

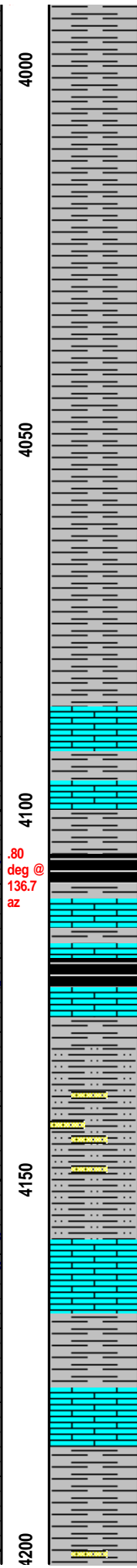
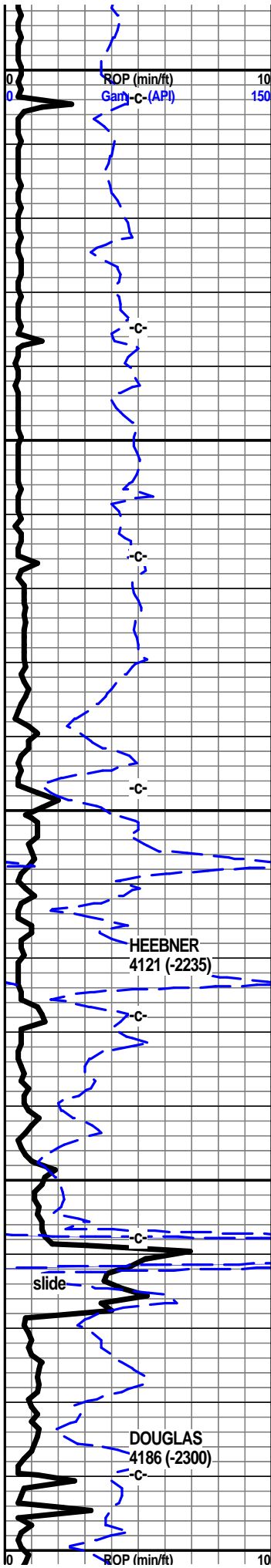
3950

.80
deg @
145.1
az



PDC spils, soft tatters and shards, mostly soft granular mush





shl gry lt med gry, tr sndy gritty, silty soft

shl gry lt med gry silty gritty soft, tr sndy

shl gry med, lt med gry silty sndy gritty soft

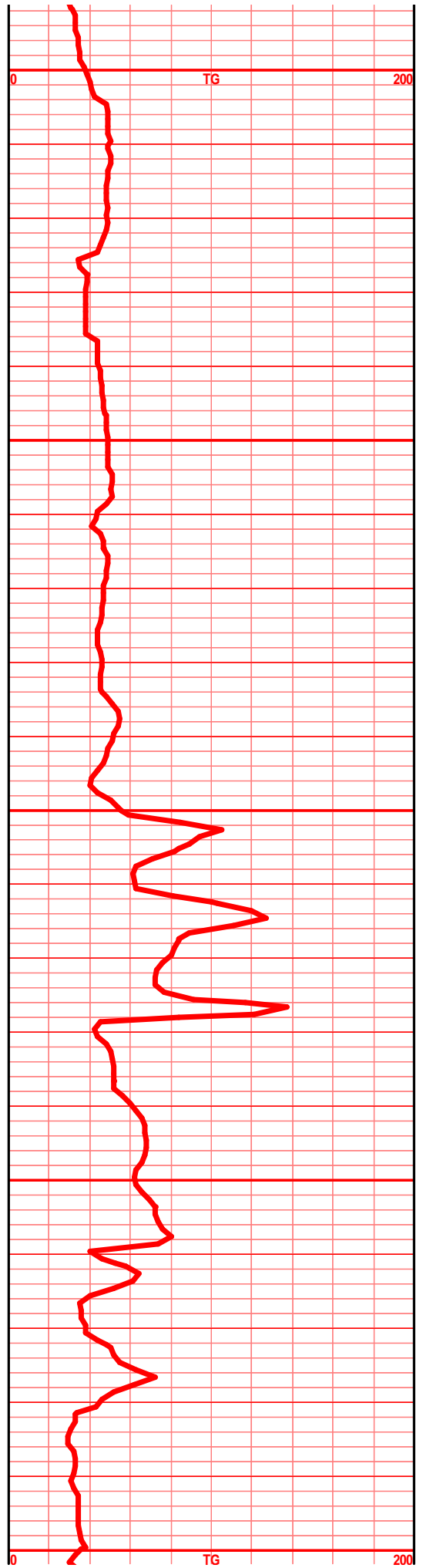
lst wht off with lt crm gry f xln gran soft sub
chky calc fill

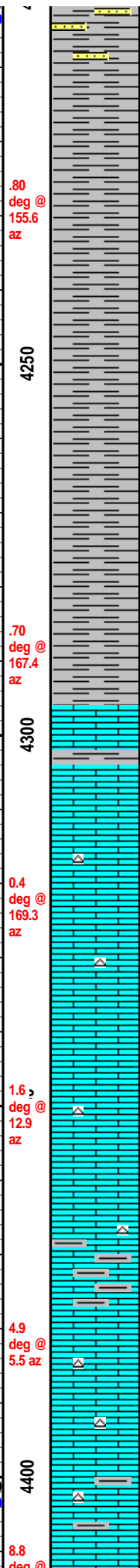
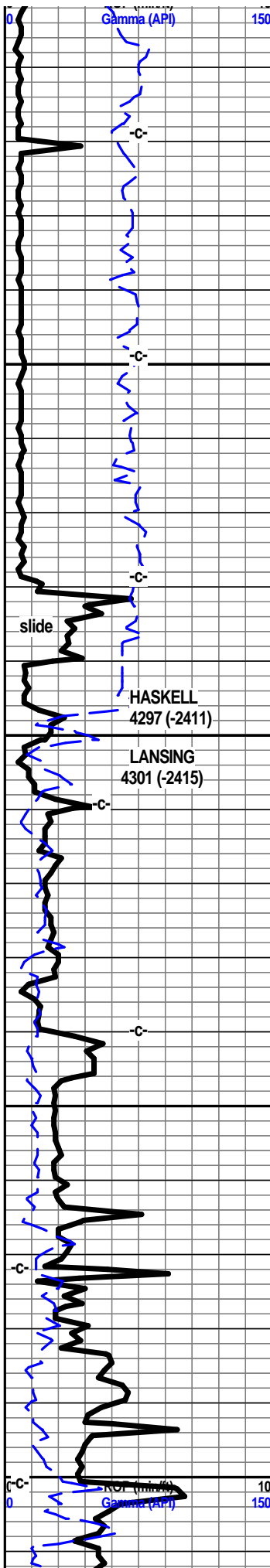
shl gry blk, blk carb, wxy grsy, gas bubs,

shl gry lt gry silty, tr sst off wht clr tan clstrs, f
grnd, arg, silty much clay fill, lst off wht lt gry
silty, sndy gritty sub chky

lst wht off with f xln gran soft sub chky spls soft
mush, TWBOW

shl gry med drk/lt gry silty soft gran, tr sst off





shl gry med drk gry silty soft grn, a sst on
 wht lt gry, f grnd, sub ang grns, prly srted, arg,
 much clay fill poor spls

shl gry med drk gry silty soft gritty tr sndy

shl gry med lt drk gry, gry/green, silty soft

shl gry, gry/green silty soft gritty

shl gry med drk gry soft silty tr gritty

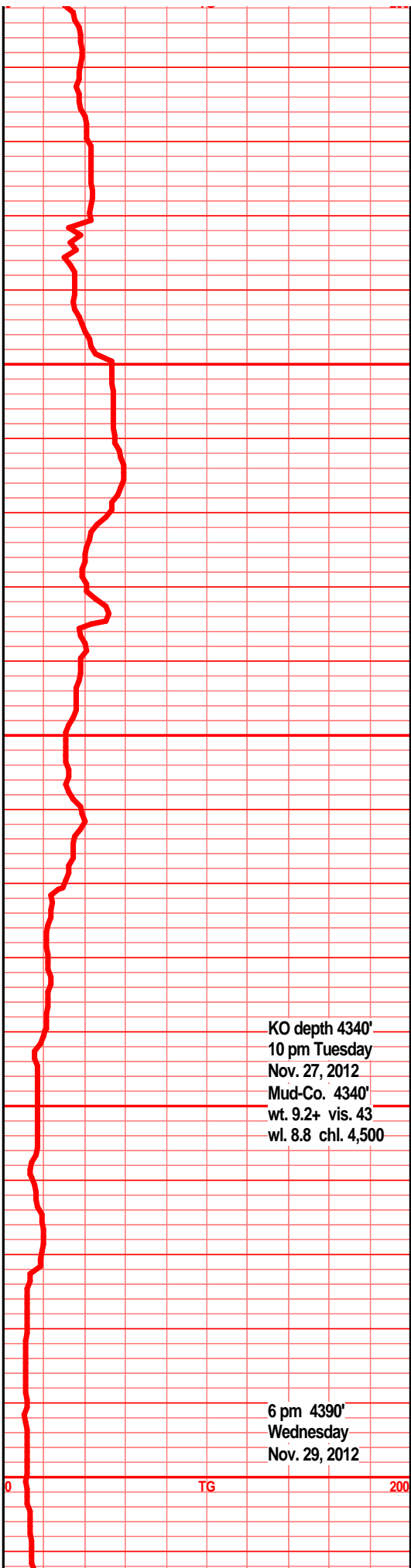
lst tan crm, lt tan brn f xln blkly ang hrd dns, tr
 sub chlky, calc xln fill, tr micro foss frags

lst off wht crm f xln gran soft sub chlky, tr calc
 xln fill, tr micro foss frags, chrt wht off wht lt gry
 shrp frsh

lst off wht lt gry f xln gran chlky to sub chlky
 soft, tr foss frags, spls wsh wht, tr calc xln fill,
 scatt pp small vug por, chrt lt gry shrp frsh opa

lst wht of wth lt gry f xl blkly ang gran dns hrd, tr
 foss frags, tr calc xln fill, sub chlky to chlky,
 scat pp, small vug por, chrt lt gry shrp frsh opa
 blkly ang pcs

lst crm off wht, lt gry brn f xln gran blkly ang hrd
 dns, sub chlky, pp vug por, calc xln fill, foss
 frags, chrt tan lt brn/gry shrp frsh opa

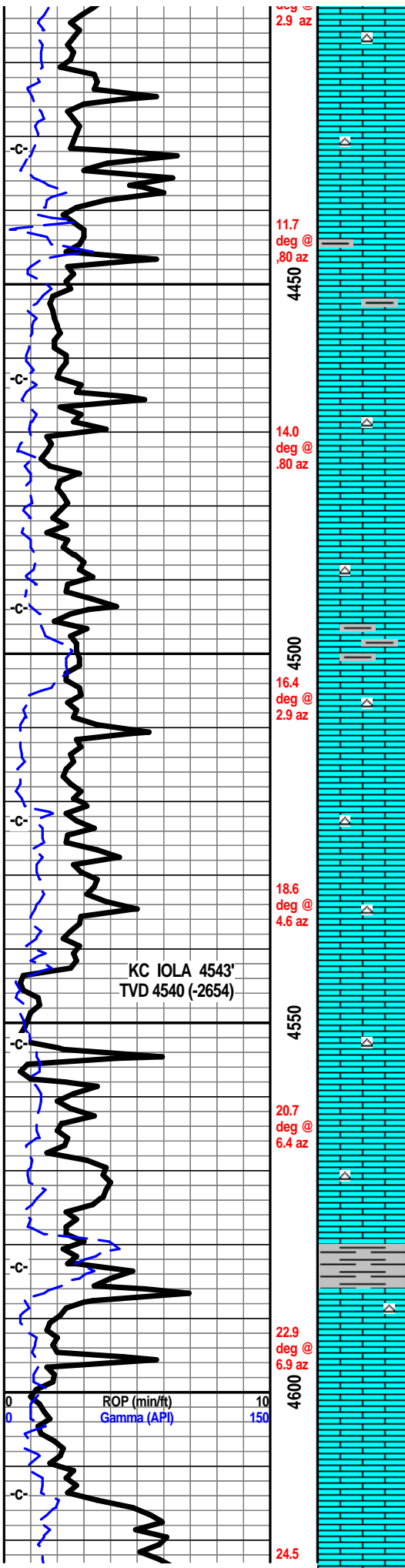


KO depth 4340'
 10 pm Tuesday
 Nov. 27, 2012
 Mud-Co. 4340'
 wt. 9.2+ vis. 43
 wl. 8.8 chl. 4,500

6 pm 4390'
 Wednesday
 Nov. 29, 2012

TG

200



1st crm tan lt buff f xln gran soft sub chlky foss frags, calc xln fill, inter xln por, pp por, chrt tan lt gry shrp frsh

1st tan off wht tr lt gry/brn f vf xln dns hrd blkly ang sub chlky foss frags, calc xln fill inter xln por, small vug por, chrt tan lt gry shrp frsh foss

1st off wht tan lt gry f vf xln dns hrd blkly ang sub chlky tr soft/chlky, foss frags, inter xln por, tr chrt tan lt gry shrp frsh opa, q,

1st, dolo in prt drk tan lt gry, f vf xln dns hrd blkly sub chlky foss frags, tr calc xln fill, chrt drk gry/brn shrp frsh opa, q

1st, dolo in prt, tan lt gry, off wht, f vf xln gran blkly ang dns pcs, sub chlky, foss frag, much calc xln fill, in ter xln por, foss frags, chrt tan gry shrp frsh

1st drk crm lt gry off wht f sli vf xln gran blkly ang dns sub chlky pcs, calc xln fill, inter xln por, mstly dns hrd, foss frags, tr chrt tan gry shrp frsh opa, q

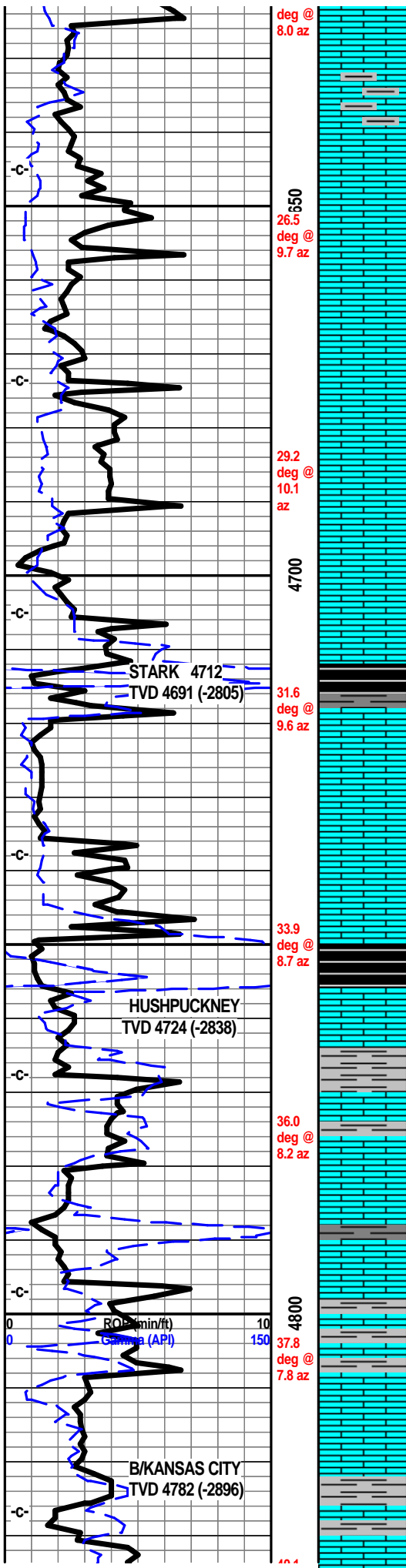
1st lt gry, off wht, drk tan/crm f vf xln dns hrd blkly ang sub chlky pcs, foss frags, inter xln por, mstly soft chlky gran inter gran por, foss frags, chrt tan drk gry shrp frsh opa, q

1st lt gry off wth drk crm f vf lxn blkly ang gran dns sub chlky pce, inter xln por, tr foss frags, calc xln fill, chrt tan gry shrp frsh opa, q

1st drk crm, tan/gry f vf xln dns blkly ang pcs, chlky/vry chlky in prt soft gran, pp inter xln por, calc fill, much chrt tan lt gry shrp frsh opa, q

Scale Change
TG

TG



lst crm tan drk crm, tr tan/gry f vf xln blk ang gran dns, hrd, chlky, foss frags, calc xln fill, inter xln por, pp por, some soft chlky earthy, chrt tan gry shrp frsh opaq

lst tan drk crm lt gry f vf xln dns hrd blk ang pcs, sub chlky to chlky foss frags, inter xln por, soft vry chlky in prt, chrt tan gry shrp frsh opaq

lst drk crm drk tan/gry f vf xln hrd dns blk ang pcs, sub chlky to vry chlky in prt, inter xln por, gran inter foss frag por, chrt tan gry drk brn shrp frsh opaq

lst drk tan drk crm gry f vf xln dns hrd blk ang, sub chlky foss frags. calc xln fill inter por, chrt tan drk gry blk shrp frsh opaq

lst drk crm tan, mstly gry f vf xln dns hrd blk ang, sub chlky, calc xln fill, tr foss frags, spls wsh wht, chrt tan drk gry shrp frsh opaq

blk carb shl in 4740' spl, lst tan lt gry, drk crm, f vf xln gran blk chlky, foss frags, micro foss, calc xln fill, chrt tan drk gry/blk shrp frsh opaq

lst drk gry brn f vf mic xln dns hrd blk ang pcs, micro foss, micro ool, hvy calc xln fill, chrty in prt, chrt drk gry, gry/blk shrp frsh opaq

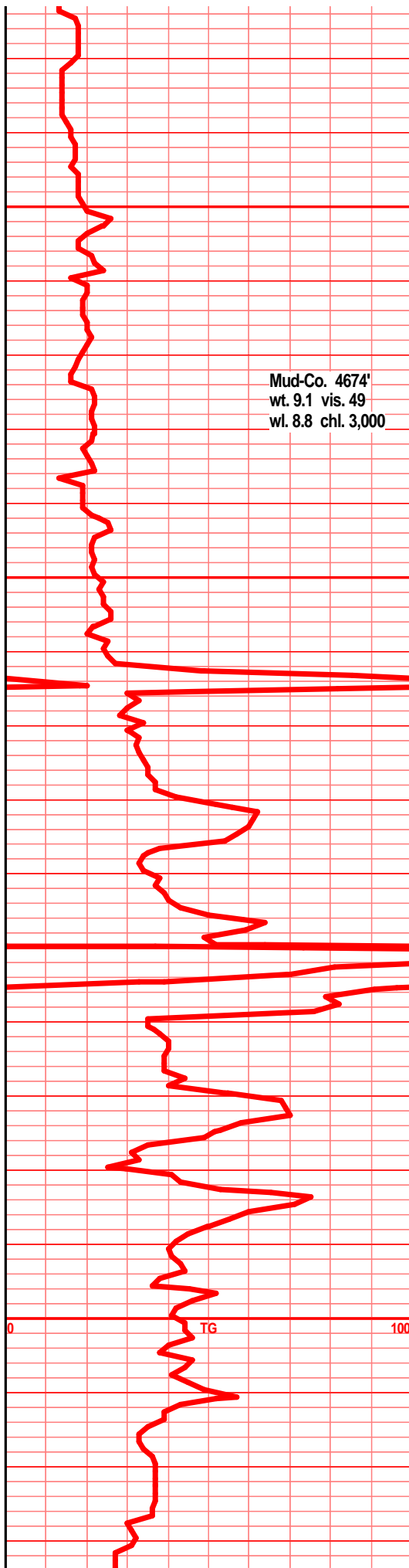
lst dull tan lt gry, gry/buff f vf xln hrd blk ang dns pcs, sli dolo in prt, sub chlky, tr vry chlky in prt, foss frags, inter xln por, chrt tan brn gry shrp frsh opaq, blk ang pcs, only a couple pcs gry blk, blk carb shl

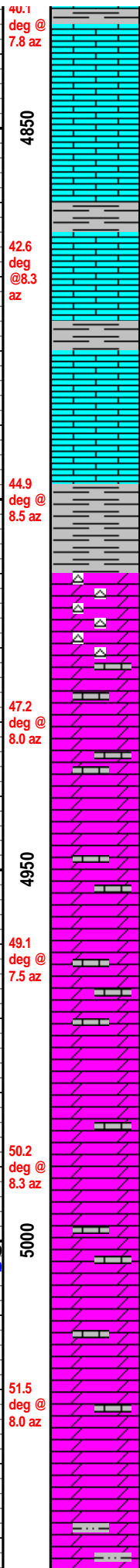
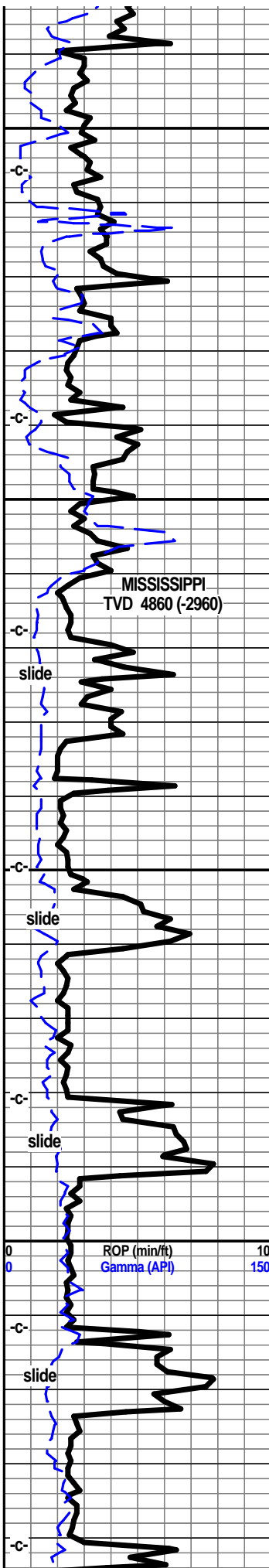
mucho gry blk, blk carb shl in 4800', lst dull crm/gry/tan aa, f vf xln blk ang dns hrd sub chlky calc fill, tr foss frags aa

shl gry drk gry brn, calc, lst tan gry gry brn f vf xln dns hrd blk ang arg, silts, sub chlky, micro foss frags, calc fill

shl gry, gry drk green brn, silty gritty calc, lst tan gry/brn f vf xln dns hrd blk ang arg, sub chlky calc xln fill micro foss frags, mstly dns arg, chrt

Mud-Co. 4674'
wt. 9.1 vis. 49
wl. 8.8 chl. 3,000





tan brn shrp frsh opa

lst drk tan/brn, tan gry f vf xln blk ang hrd dns, pyrtic, sub chlky tr foss frags, tr inter xln por, tr calc xln fill, mstly tite dns

lst crm buff tan f vf xln hrd blk ang dns pcs, NVP, tr sub chlky, tr calc fill, micro foss frags

shls, gry, gry green, blue/gry/green, lst tan crm buff off wht f vf xln dns hrd blk ang pcs, tr inter xln por, tr calc fill, micro foss frags

chrt lt gry, smokey, shrp frsh opa with crm tan brn dolo edge, tan brn stain, VSSFO, gas bubs, dull UV, pp tr moldic por, sli odor, dolo tan buff lt gry vf xln blk ang hrd pcs, chrt inclu, tr inter xln por, tan brn stain, tr gas bubs/brkn

dolo crm off wht lt gry, f vf xln, sub chlky silty sli sndy text, tr lt gry/smokey shrp frsh chrt inclu, tr inter xln por, mstly dns, NVP, tan brn stained, tr gas bub, sli odor

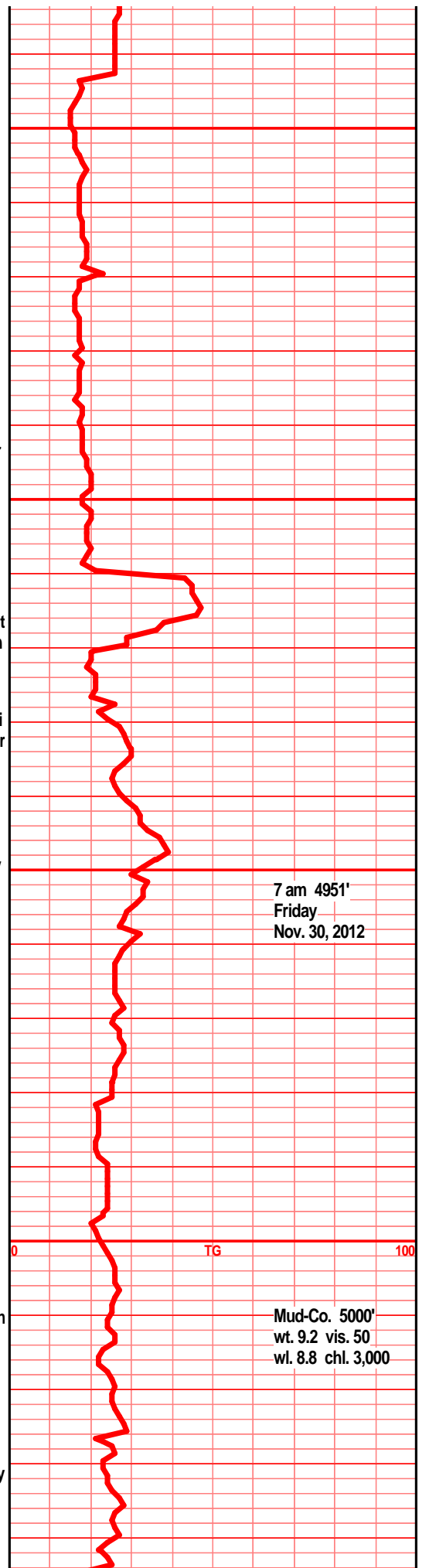
dolo off wht lt gry f vf xln gran dns hrd blk pcs, sub chlky in prt, silty, sli sndy text in prt, tr lt gry smokey shrp frsh chrt inclu, tr inter xln por?, mstly dns, tan brn stain, tr gas bubs, sli odor

dolo off wht lt gry, lt gry/green, vf xln, gran, sli chlky, silty, tr sndy text, blk ang hrd pcs, tr wht shrp frsh opa chrt, tr rare stain

dolo off wht lt gry, lt gry green, f vf xln dn shrd blk, tr sub chlky, tr calc, some sndy text/snd grn inclu, mstly dns hrd, tr wht/clr shrp frsh chrt

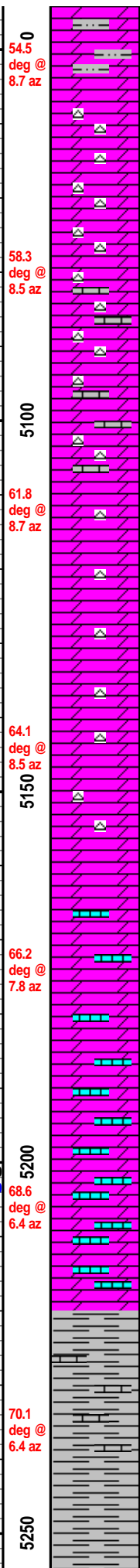
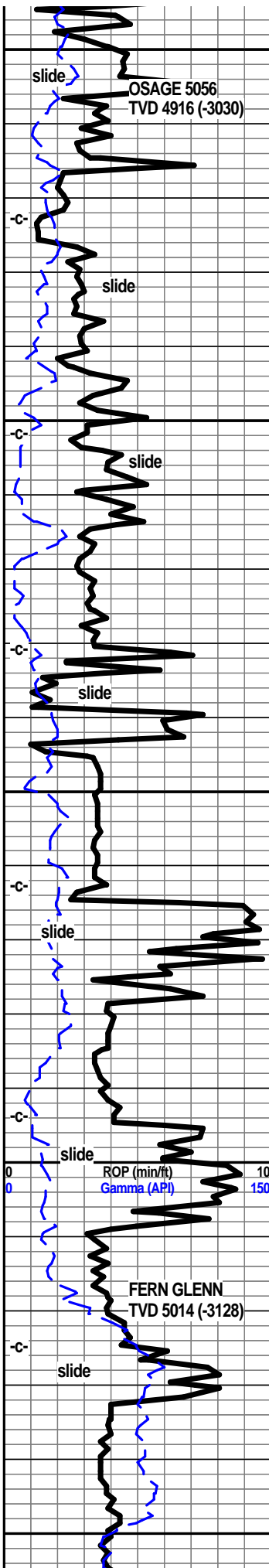
dolo drk crm tan gry, tr gry w/lt green tint, f vf xln gran tr sub chlky, sndy text in prt, tr snd gry inclu, mstly dns hrd, chrt clr shrp frsh opa, lst drk brn, micro xln, dns hrd blk chrt

dolo lt gry, lt gry/green, f vf xln gran dns hrd blk and pcs, sndy text in prt, tr snd grn inclu, mstly dns, tr inter xln por, silic in prt, chrt lt gry/clr shrp frsh opa



7 am 4951'
Friday
Nov. 30, 2012

Mud-Co. 5000'
wt. 9.2 vis. 50
wl. 8.8 chl. 3,000



dolo lt gry, lt gry/green f vf xln, silty, silic in prt, blk ang hrd, tr sndy text, tr snd grn inclu, sub chlky in prt, chrt clr shrp frsh opa, tr tan brn stained dolo, f xln blk ang gran in prt, tr inter xln por, tan brn stain, scatt dull UV

LOST RETURNS
5080' spl mstly trash and lcm, some tan gry brn dolo, f xln gran inter xln por, tan brn stain, tr gas bub? scat rare dull UV

dolo crm tan lt brn to brn f xln gran sli chlky, sli soft, pp inter xln por, tan brn stain, dull UV, tr chrt with tan gry frsh shrp chrt inclu, tan brn stain at chrt dolo contact

dolo/lst in prt, tan lt brn/brn f xln blk ang dns sli chlky pcs, pp inter xln por, tan brn stain, NSFO, tr gas bubs, clr lt gry chrt inclu, chrt gry drk gry shrp frsh foss sub opa

dolo tan lt gry/brn f xln gran sli chlky, calc, pp inter xln por, tan brn stain, chrt tan gry shrp frsh sub opa, dolo gry tan vf xln dns gran silic in prt

poor sample, dolo as above, lst off wht lt tan f sli med xln gran blk dns, sli chlky sli chrt in prt, sample mostly LCM and gry blk ratty shales

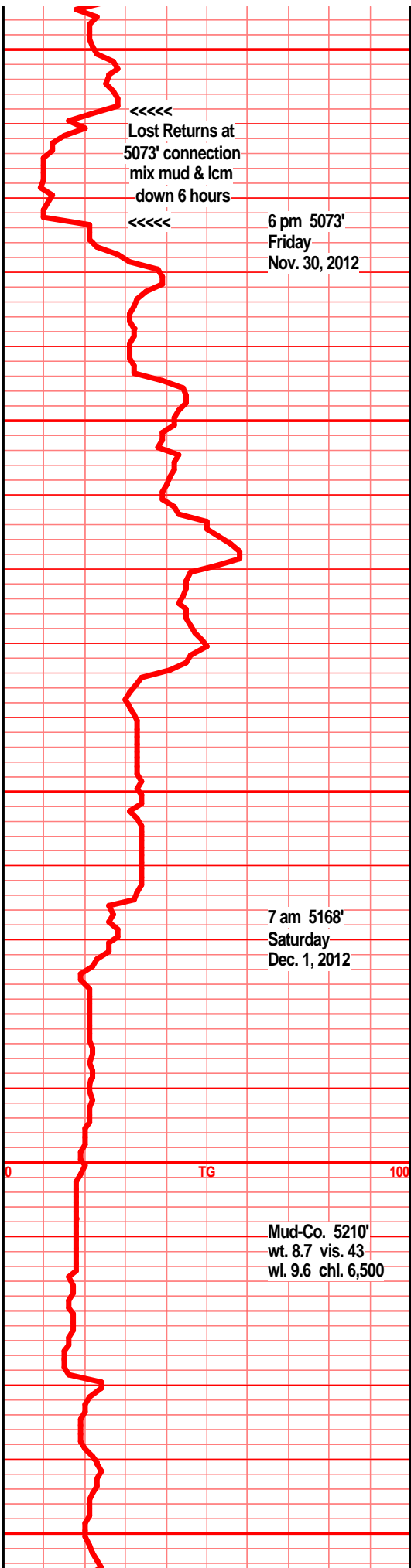
all nutplug, beads, flozan and cedar fill

dolo off wht lt gry f vf xln blk dns ang pcs, silic in prt, tr silty, calc in prt, tr snd grn inclu, lst wht off wth crm f xln blk ang sub chlky tr chrt wht shrp frsh opa

lst tan drk buff lt gry f vf xln dns hrd blk ang, tr sub chlky mstly dns, tr micro xln fill, dolo lt gry f xln gran blk silic, hrd dns

lst drk crm tan gry dolo in prt, f vf xln dns hrd blk silic in prt, sub chlky, dna hrd ang pcs, shls gry lt gry green silty gritty soft

shls gry, lt gry green silty soft, calc in prt, silty gritty, tan lt blk bedded with white streaks



gritty, lt gry lt blk bedded with pyrite streaks,

shl lt gry, lt gry/green silty gritty, silic in prt, dns hrd flky pcs, tr pyritic, tr lst wht off wht f xln blk ang dns, silic in prt, sub chlky

shl gry, lt gry/green silty, gritty, silic in prt, slick, tr pyritic

shl gry, lt gry, mstly lt gry greenish/blue, silty gritty, silic text in prt, pyritic

shl gry green silty gritty, silic text, lst wht off wht tan f xln gran blk chlky arg silty

lst off wht dull tan, f vf xln dns hrd blk ang pcs, tr sub chlky, same gry/green silty gritty silic text shls

lst off wht crm dull tan, f vf xln, blk ang hrd pcs, tr sub chlky, chrt tan lt gry frsh shrp opa, sub transp in prt,

lst off wht dull tan, dull buff, f micro xln dns hrd blk pcs, tr sub chlky, mstly tite dns hrd, chrt off wht tan dull tan shrp frsh opa, tr sub transl

lst off wht dull tan gry f micro xln dns hrd blk ang, chrt tan off wht, clr shrp frsh

lst off wht dull tan gry f vf micro xln dns hrd blk ang pcs, tr sli sub chlky, tr chrt wht off wht lt gry/clr shrp frsh semi opa, sub transl

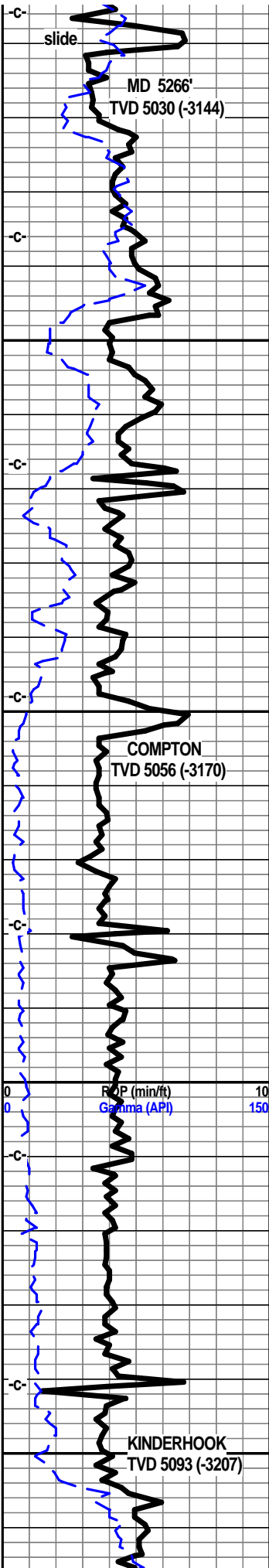
lst off wht dull buff tan f micro xln dns hrd blk ang, some sub chlky, mstly tite, chrt off wht clr shrp frsh opa, less chrt with depth

Compton ?

7 am 5374'
Sunday
Dec. 2, 2012

Calibration
Check

Mud-Co. 5426'
wt. 9.1 vis. 44
wl. 9.0 chl. 6,000



70.9 deg @ 6.2 az

71.3 deg @ 5.7 az

71.3 deg @ 5.9 az

5350

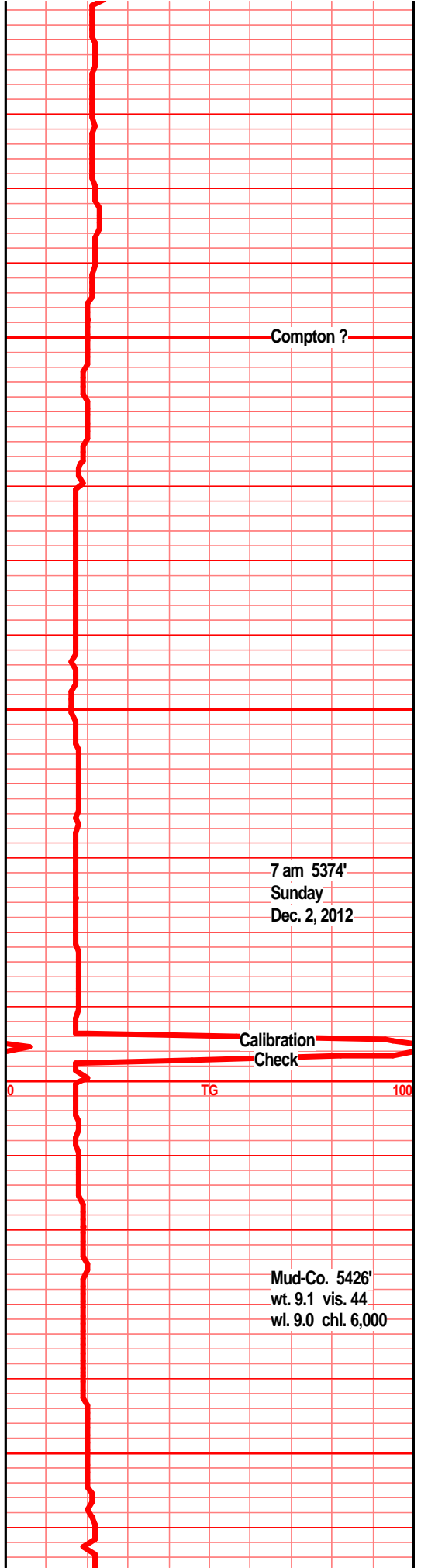
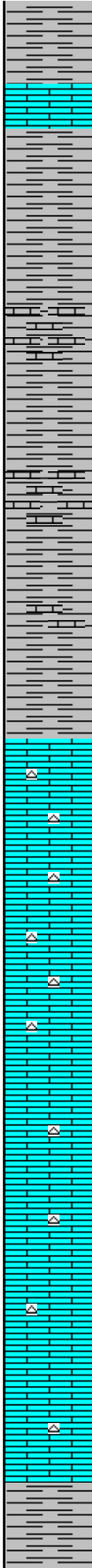
70.9 deg @ 4.6 az

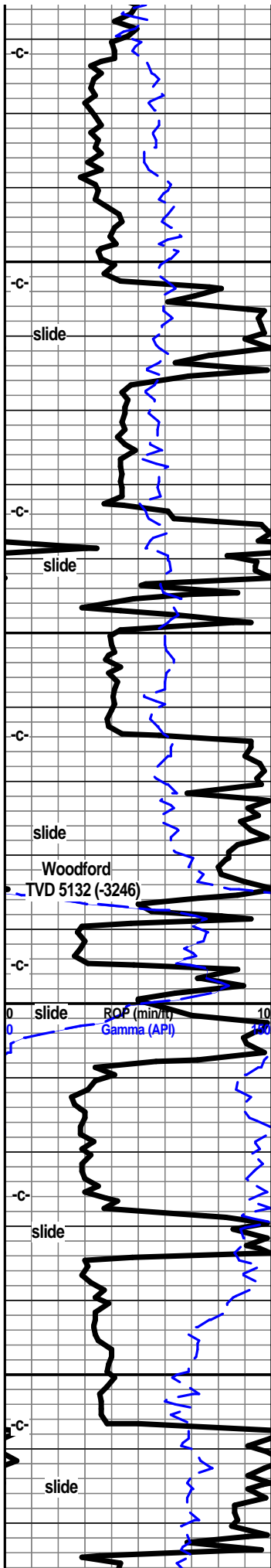
70.1 deg @ 4.6 az

5400

69.8 deg @ 4.6 az

69.7 deg @ 4.5 az





70.2 deg @ 4.6 az

5500

71.6 deg @ 4.3 az

73.9 deg @ 4.3 az

5550

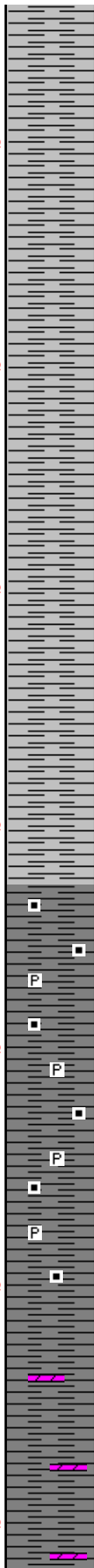
77.1 deg @ 5.7 az

5600

80.0 deg @ 5.3 az

5650

83.7 deg @ 7.5 az



shl gry drk med drk gry, gritty silty, bedded, some bands, tr drkr blk, platy, bedded, tr pyritic

shl gry med to drk gry silty gritty, platey, some bedded/bands, tr drkr gry/blk, tr pyritic

shl gry dkr gry blk, silty gritty, tr bedded, pyritic bands, tr drkr blk, semi carb, wxy grsy text some gas bubs

sh gry, med drk gry, silty, gritty tr bedded, pyrite bands, tr drkr blk sub carb, wxy grsy text

shl drk gry, blk with reddish tint, gritty, tr sndy text, wxy grsy text, blk ang pcs, gas bubs, pyritic specks

shl drk gry, drk gry/blk, silty gritty, vfny sndy, pritic poor sample

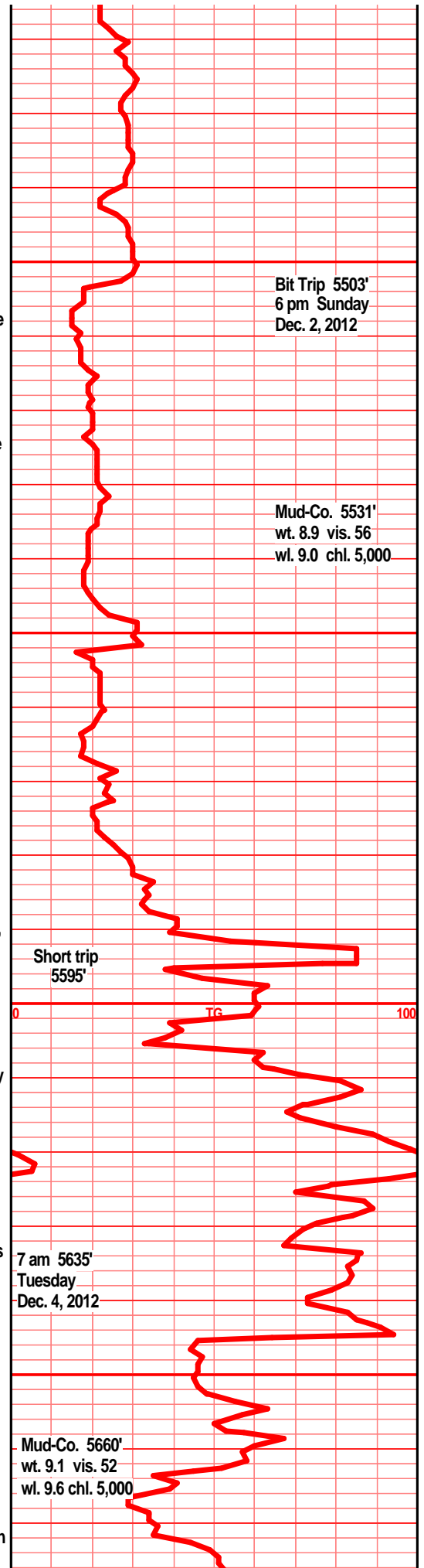
shl blk, drk reddish tint blk, wxy grsy text, gritty, sndy, f grnd sub ang/sub rded snd grn inclu, pyritic, abun gas bubs

shl drk gry blk, mstly blk, blk ang pcs, grsy wxy text, silty sndy, with clr f grnd sub ang/sub rded grains, much pyrtite, gas bubs, filmy cond, nodor

shl blk, tr drk gry blk, tr drk blk w/reddish tint, blk ang pcs, wxy grsy text, silty, sndy w/ f grnd sub ang/sub rded snd grns, pyritic in most, gas bubs, filmy show w/brkn

shl drk gry blk, silty gritty, mstly drk blk, carb text, wxy grsy, pyritic, sndy text, clr sub rded, sub ang sand grn inclu, gas bubs, filmy show

gry med gry silty gritty dolo shl, bedded, snd grn inclu, pyritic, fnly silic text in most, shl aa



Bit Trip 5503' 6 pm Sunday Dec. 2, 2012

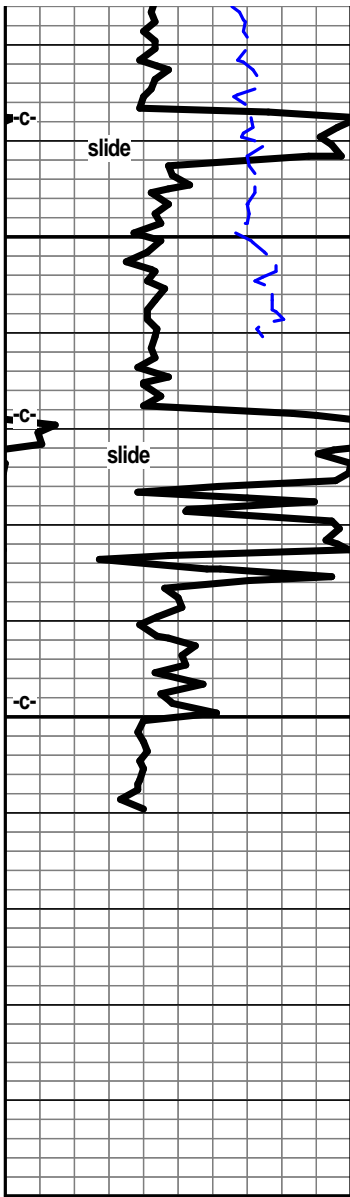
Mud-Co. 5531' wt. 8.9 vis. 56 wl. 9.0 chl. 5,000

Short trip 5595'

0 TG 100

7 am 5635' Tuesday Dec. 4, 2012

Mud-Co. 5660' wt. 9.1 vis. 52 wl. 9.6 chl. 5,000



5700
85.1
deg @
7.8 az

5750

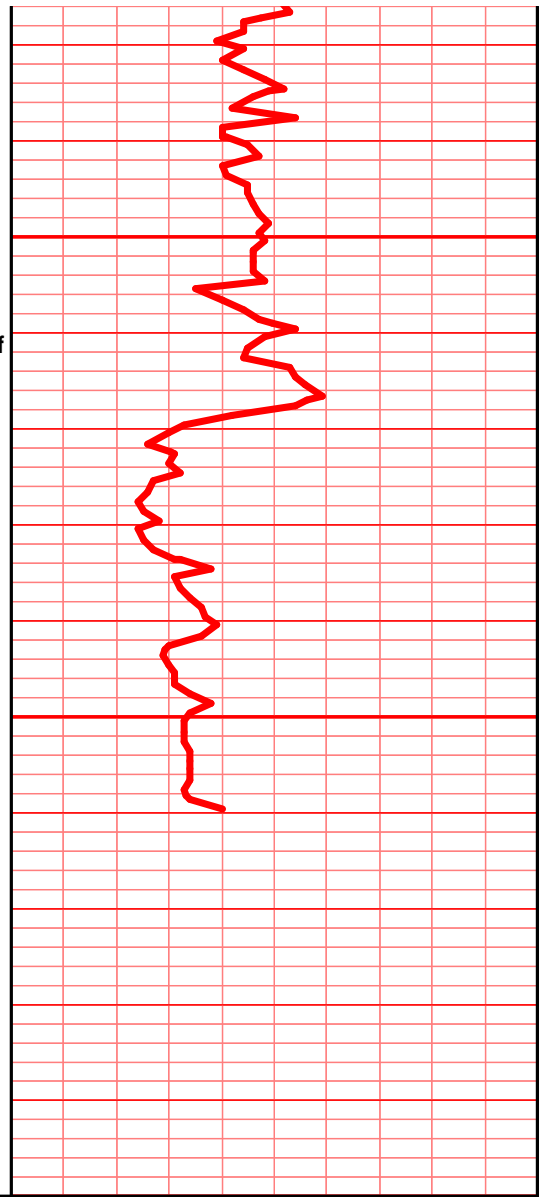
00

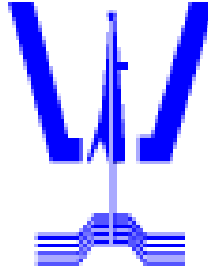


shl gry med gry/brn silty gritty, fnly sndy text, silic in prt, vf grnd sub rded snd grn inclu, tr pyritic, bedded

shl med gry, med gry brn, silty gritty, silic text, vf grnd sub rded snd grn inclu, pyritic, soft mushy

shl gry brn, med brn silty gritty, silic text, sndy text, vf grnd sub ang/sub rded snd grn inclu, pyritic, soft mushy, tr filmy show, dry stain/brkn





Woolsey Operating Company, LLC

Scale 1:600 (2"=100") Metric
Measured Depth Log

Well Name: Ricke-Baier #1 H
Location: Section 31 - Township 33 South - Range 13 West
License Number: 15-007-23966-01-00 Region: Barber County, KS
Spud Date: November 13, 2012 Drilling Completed:
Surface Coordinates: Approx. NW SW SE SE
450' FSL and 995' FEL
Bottom Hole Coordinates:
Ground Elevation (m): 1879' K.B. Elevation (m): 1886'
Logged Interval (m): 4200' To: Total Depth (m):
Formation: Oread ----- Woodford
Type of Drilling Fluid: Chemical Mud, Brine Solution, Flozan
Printed by HORIZONTAL.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

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

GEOLOGIST

Name: Bill Klaver
Company: Woolsey Operating Company, LLC
Address: 125 N. Market Suite 1000
Wichita, Kansas 67202

Drilling Info

Gas Detector: Woolsey Operating Co. Gas Trailer #2

Mud System: Mud Co., Brad Bortz, Engineer

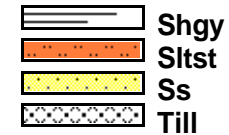
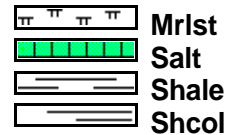
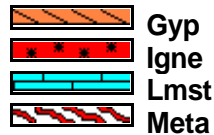
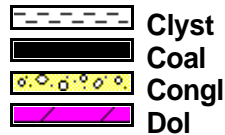
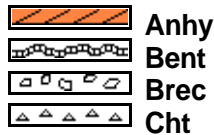
Dan D Drilling Bit Record: 1) 17 1/2" STC RR to 320', 2) 12 1/2" STC RR to 954', 3) 8 3/4" RTC F-1100 PDC out at 4340', 4) 8 3/4" RTC R-24 DPOH out at 5503', 5) 8 3/4" R-24 DPOH out at 5760', 6) 6 1/8" RTC MSH 5162' out at

Comments

Tool Pusher: Steve Ellington, Relief Pusher: Sammy Fry

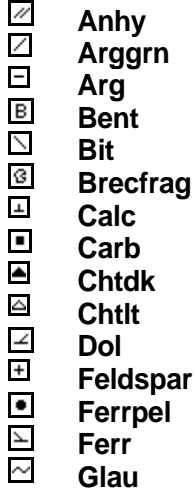
Drillers: (7 day-12 hour tours) Johnny Stone, David Herring, Jeffery Meyers, Terry Stark

ROCK TYPES

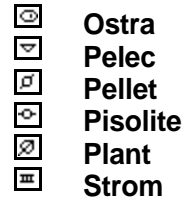
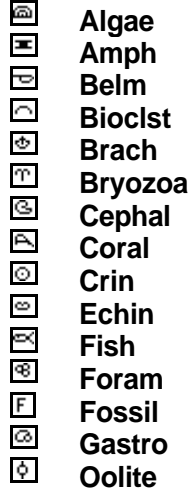


ACCESSORIES

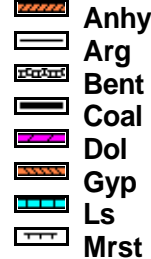
MINERAL



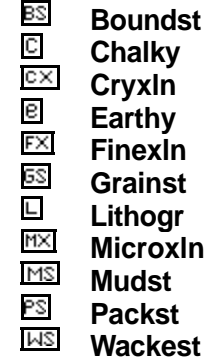
FOSSIL



STRINGER



TEXTURE



OTHER SYMBOLS

POROSITY

- E Earthy
- F Fenest
- F Fracture
- X Inter
- M Moldic
- O Organic
- P Pinpoint

V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- S Subrnd
- A Subang
- A Angular

OIL SHOW

- E Even

S Spotted

- Q Ques
- D Dead

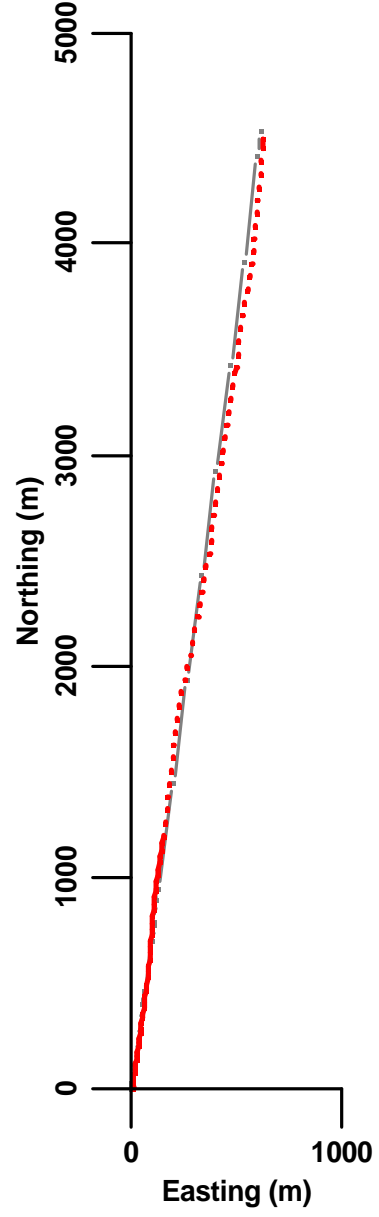
INTERVAL

- C Core
- D Dst

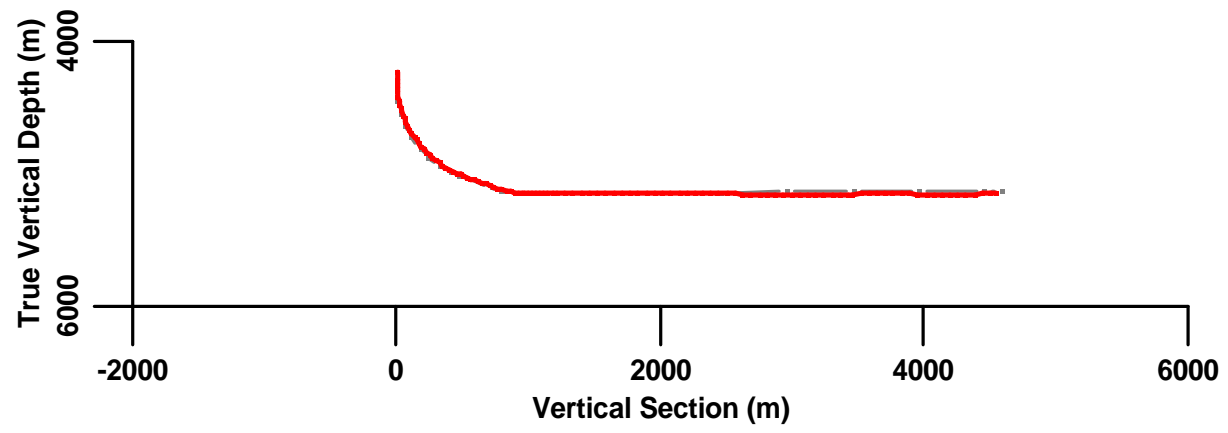
EVENT

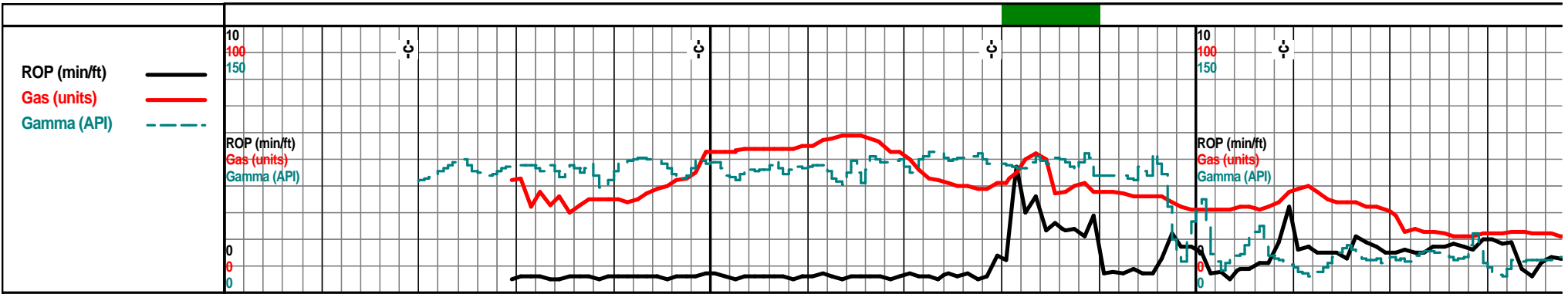
- R Rft
- S Sidewall

Plan



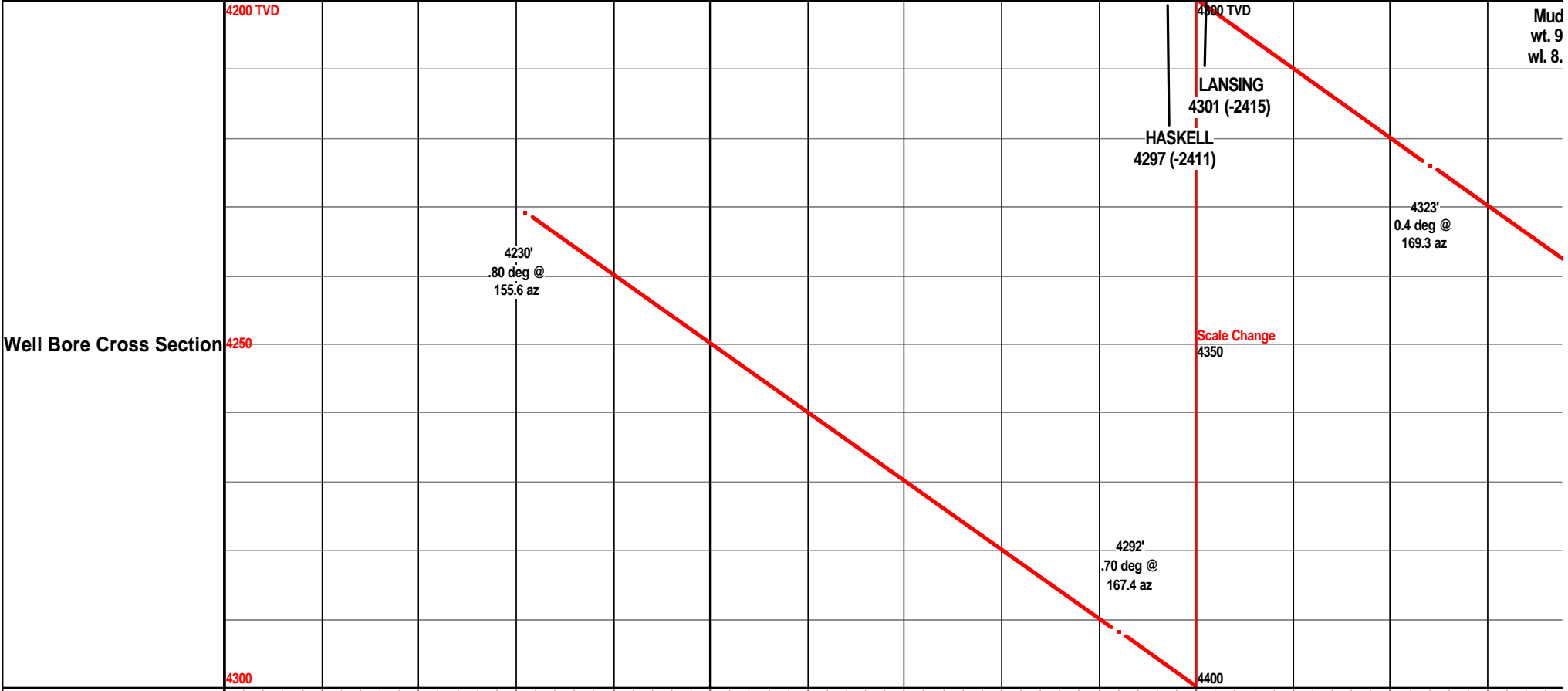
Elevation



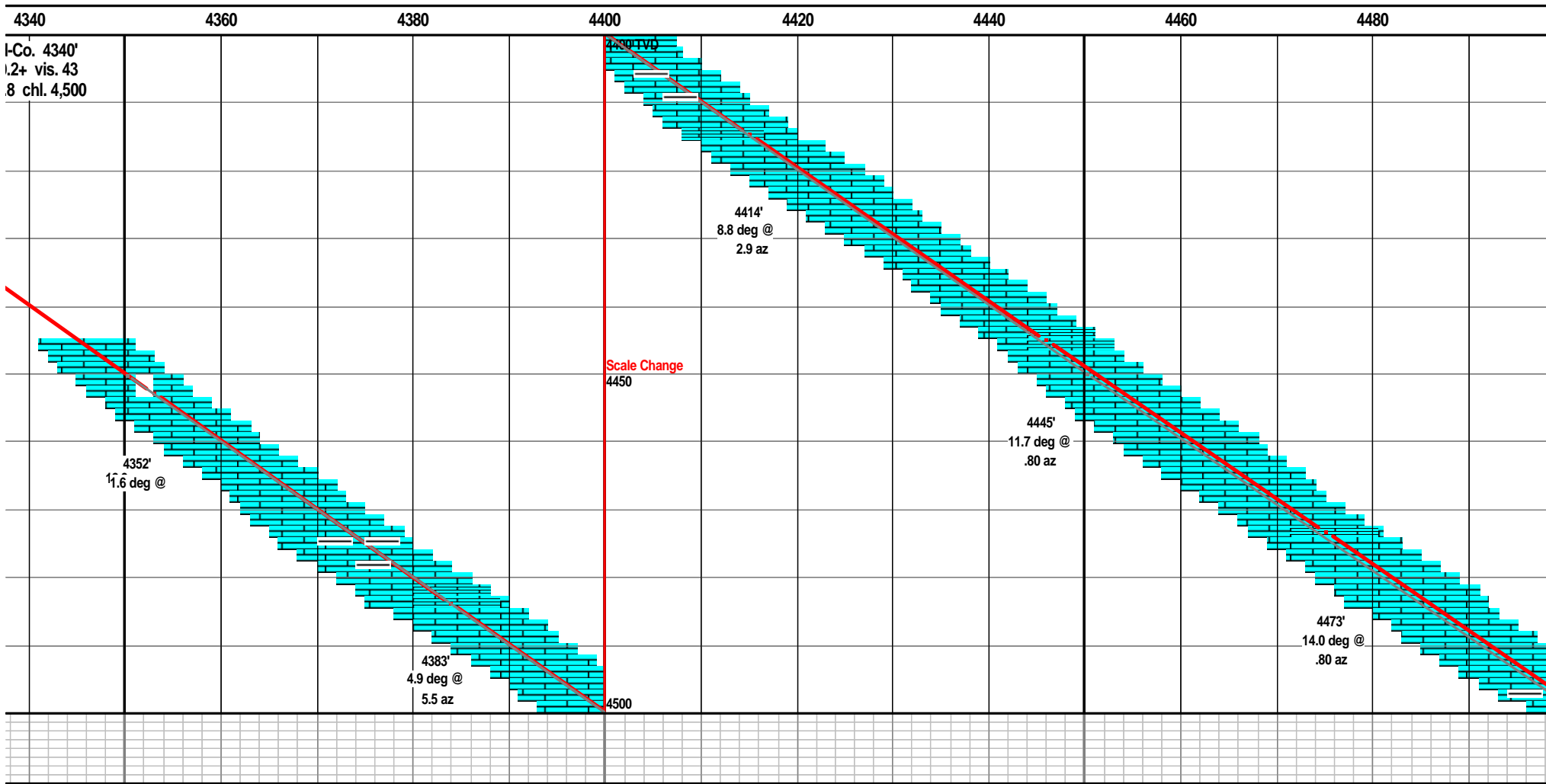
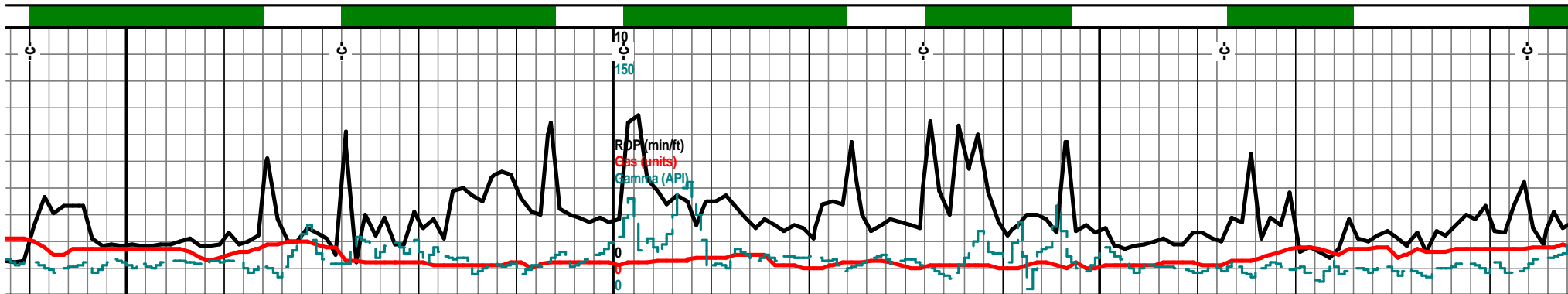


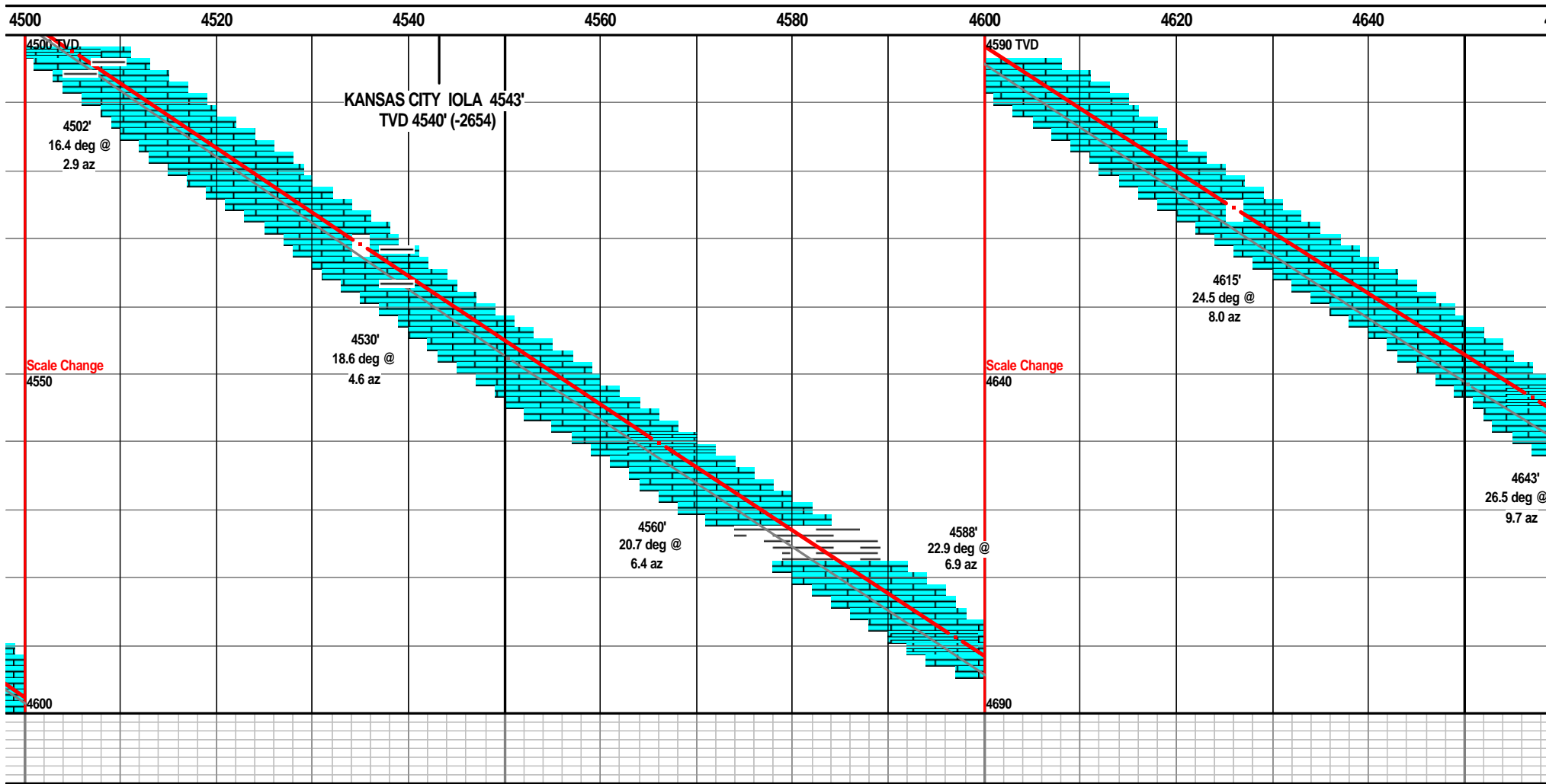
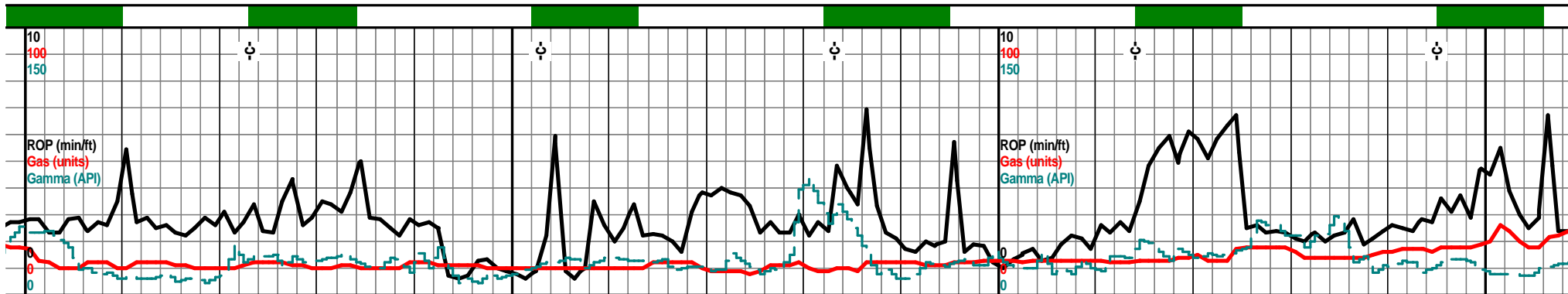
Oil Shows

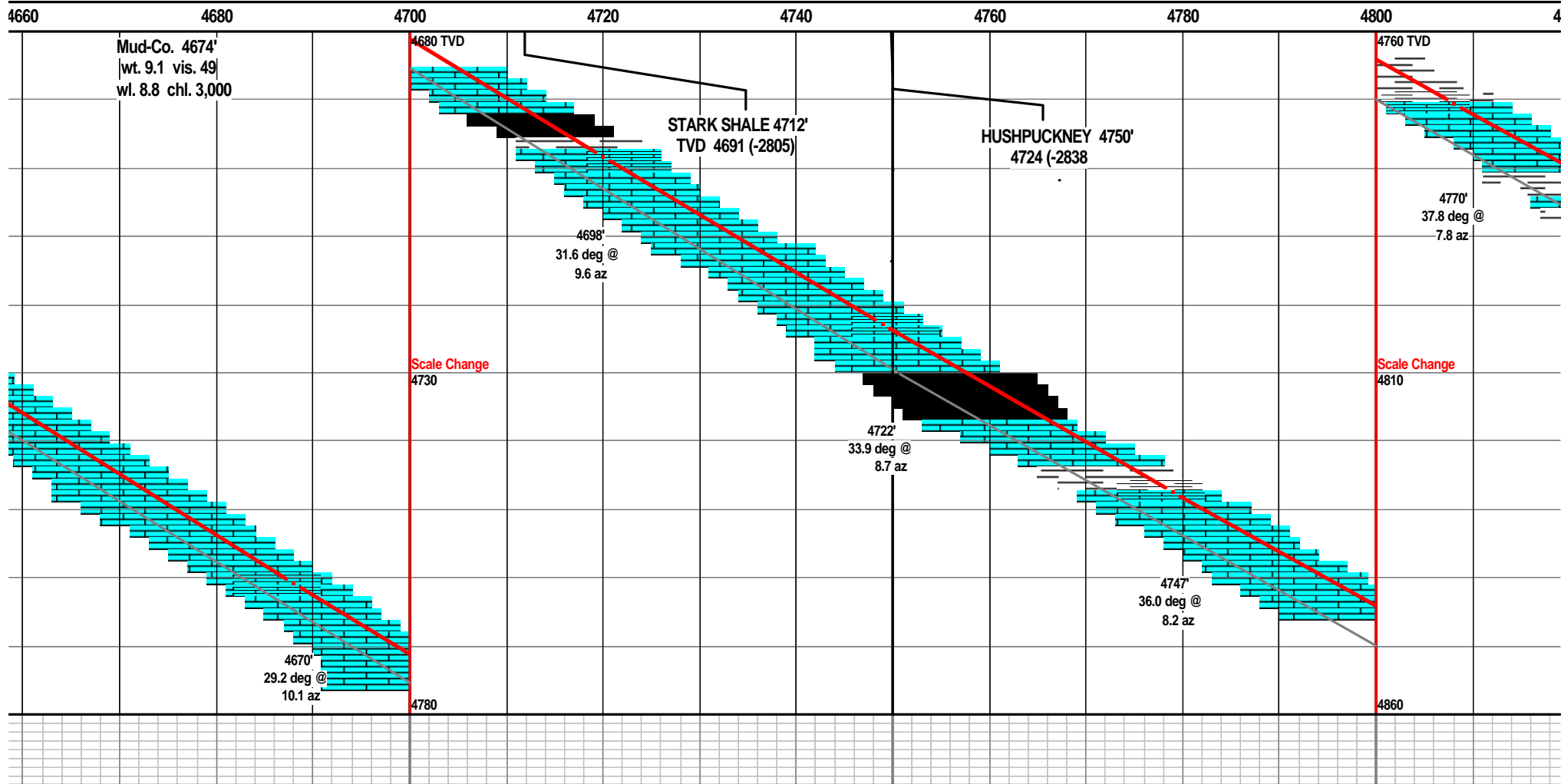
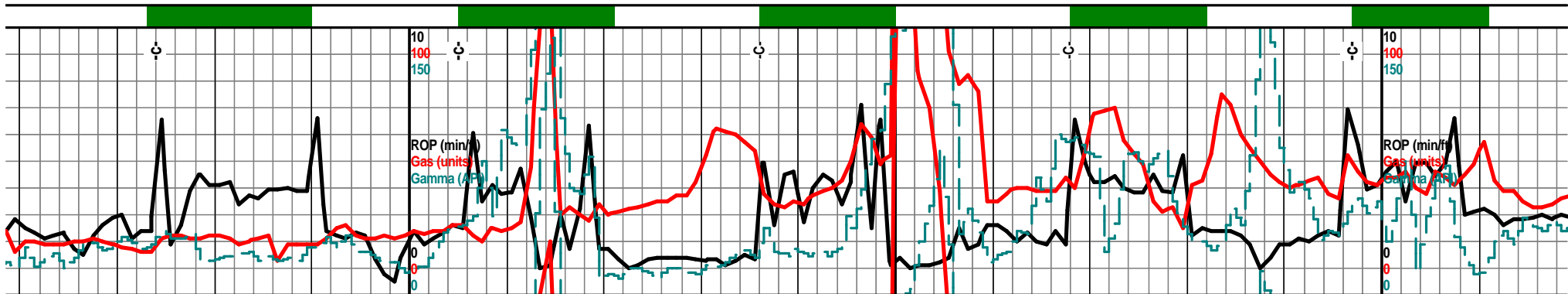
Depth 00 4220 4240 4260 4280 4300 4320

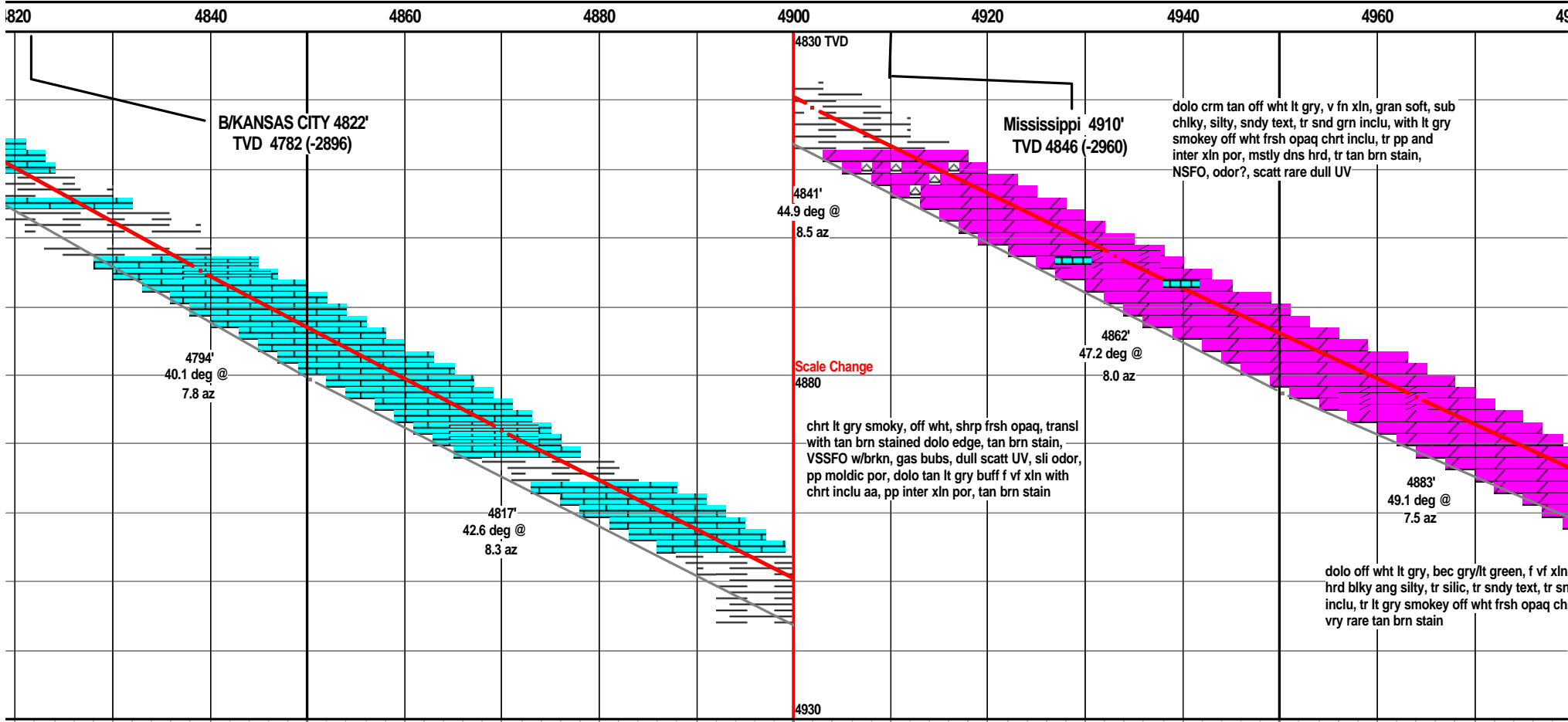
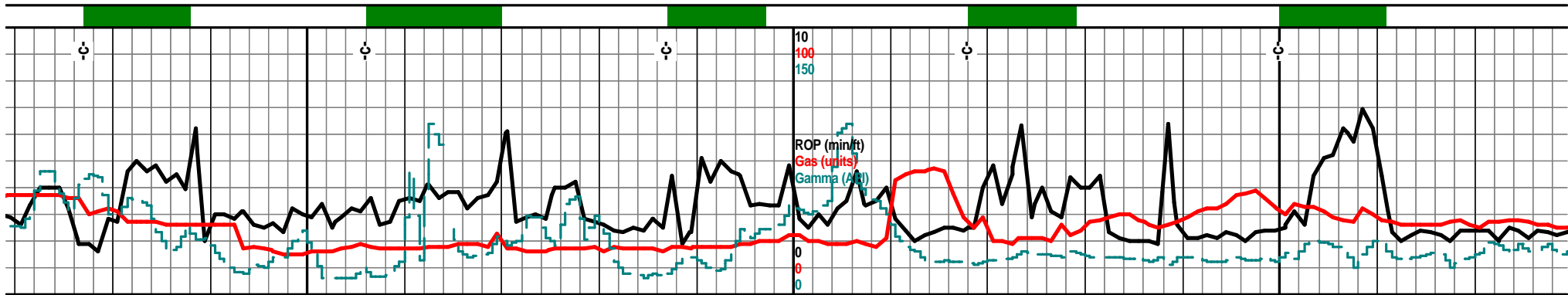


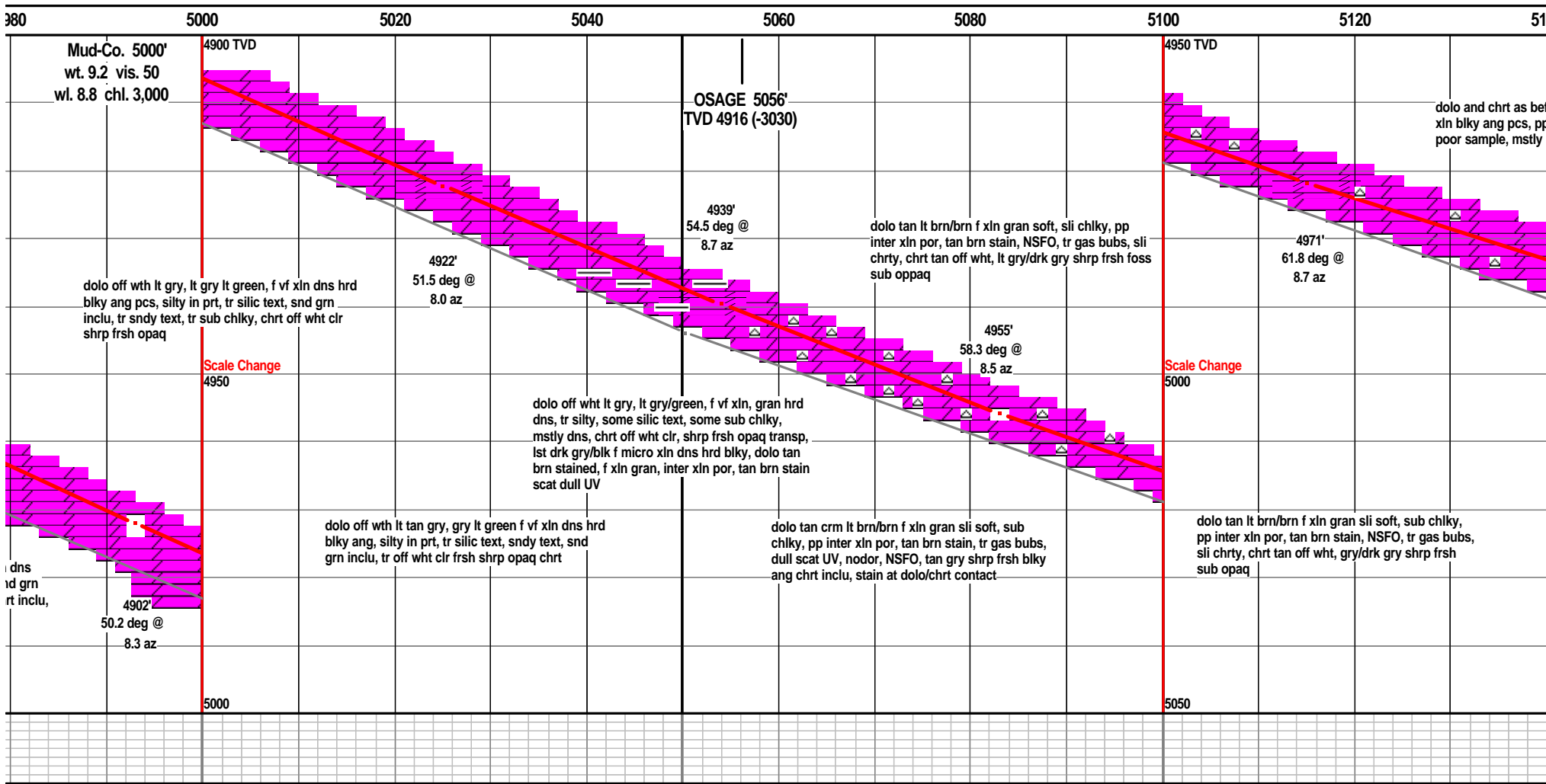
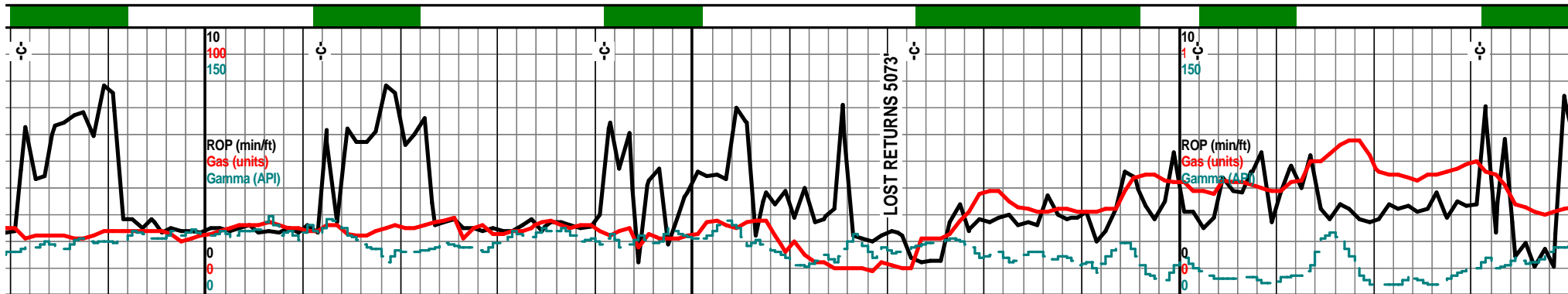
| | |
|----------------------|-----|
| Porosity | 24% |
| | 18% |
| | 12% |
| | 6% |
| Porosity Type | |

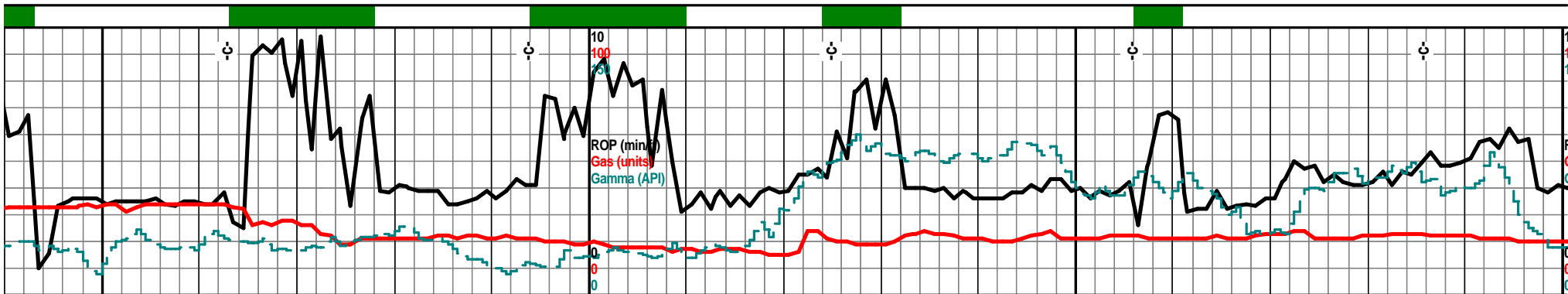




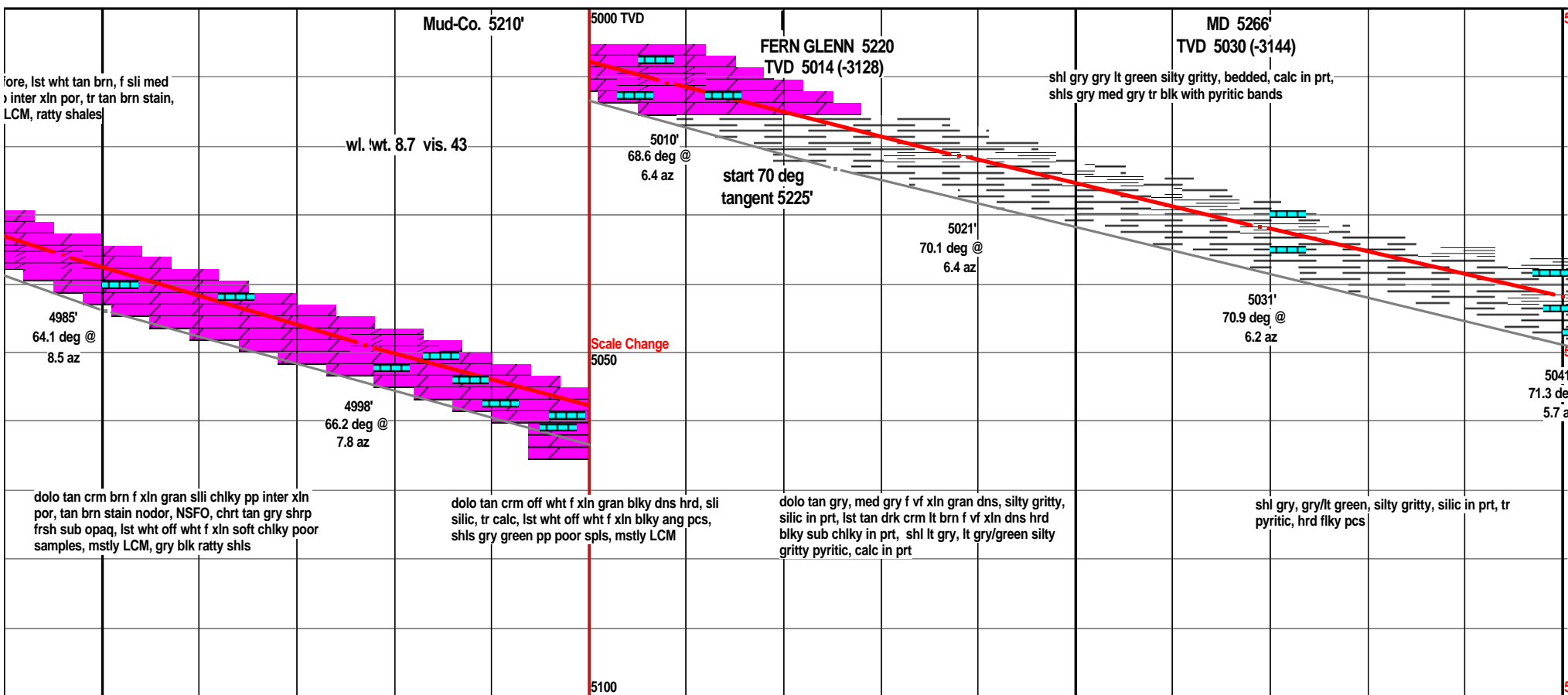


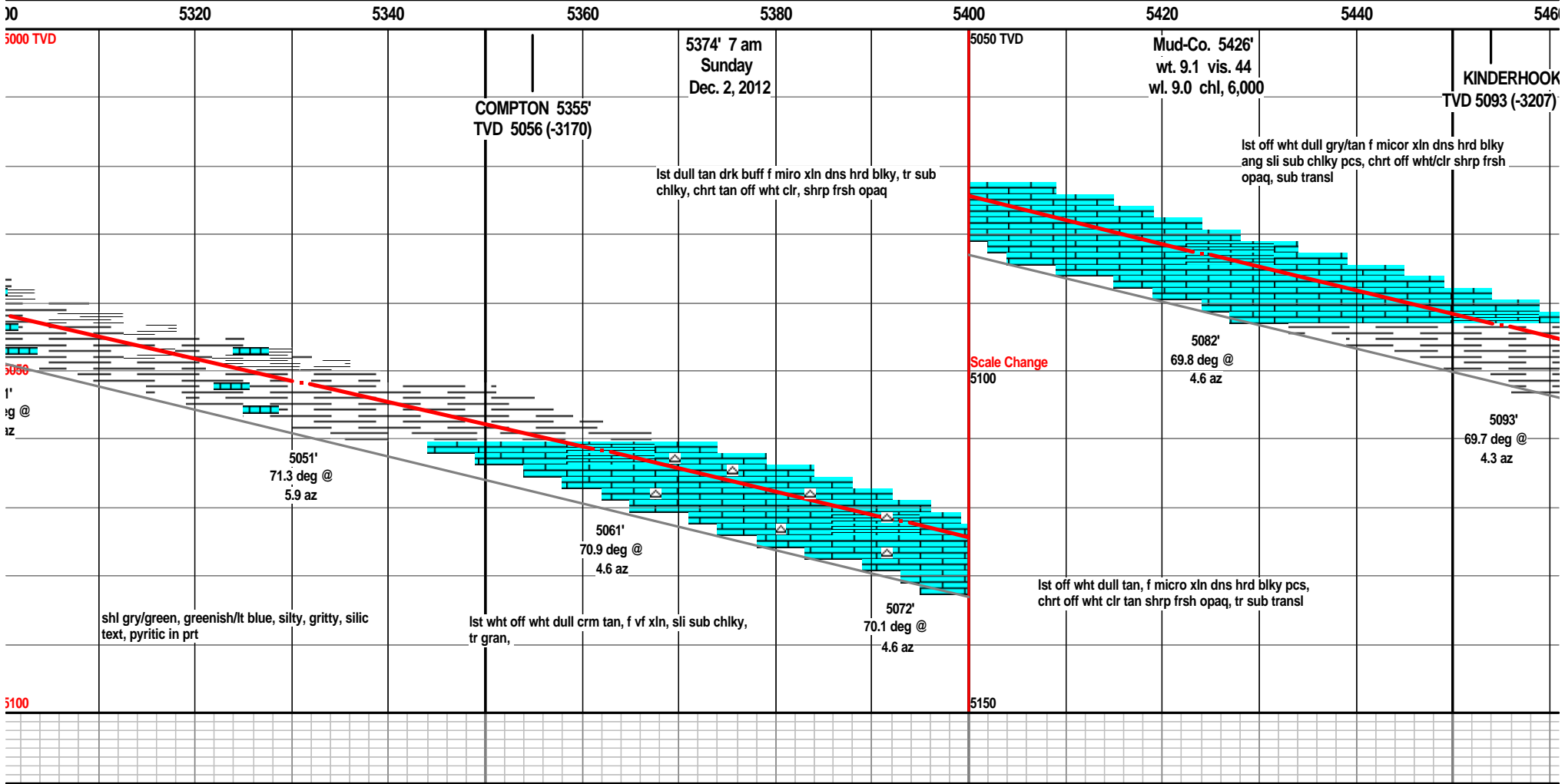
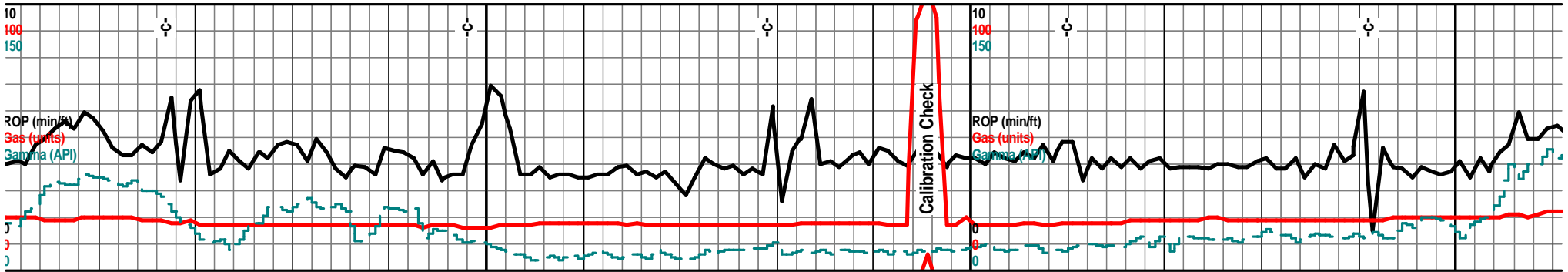


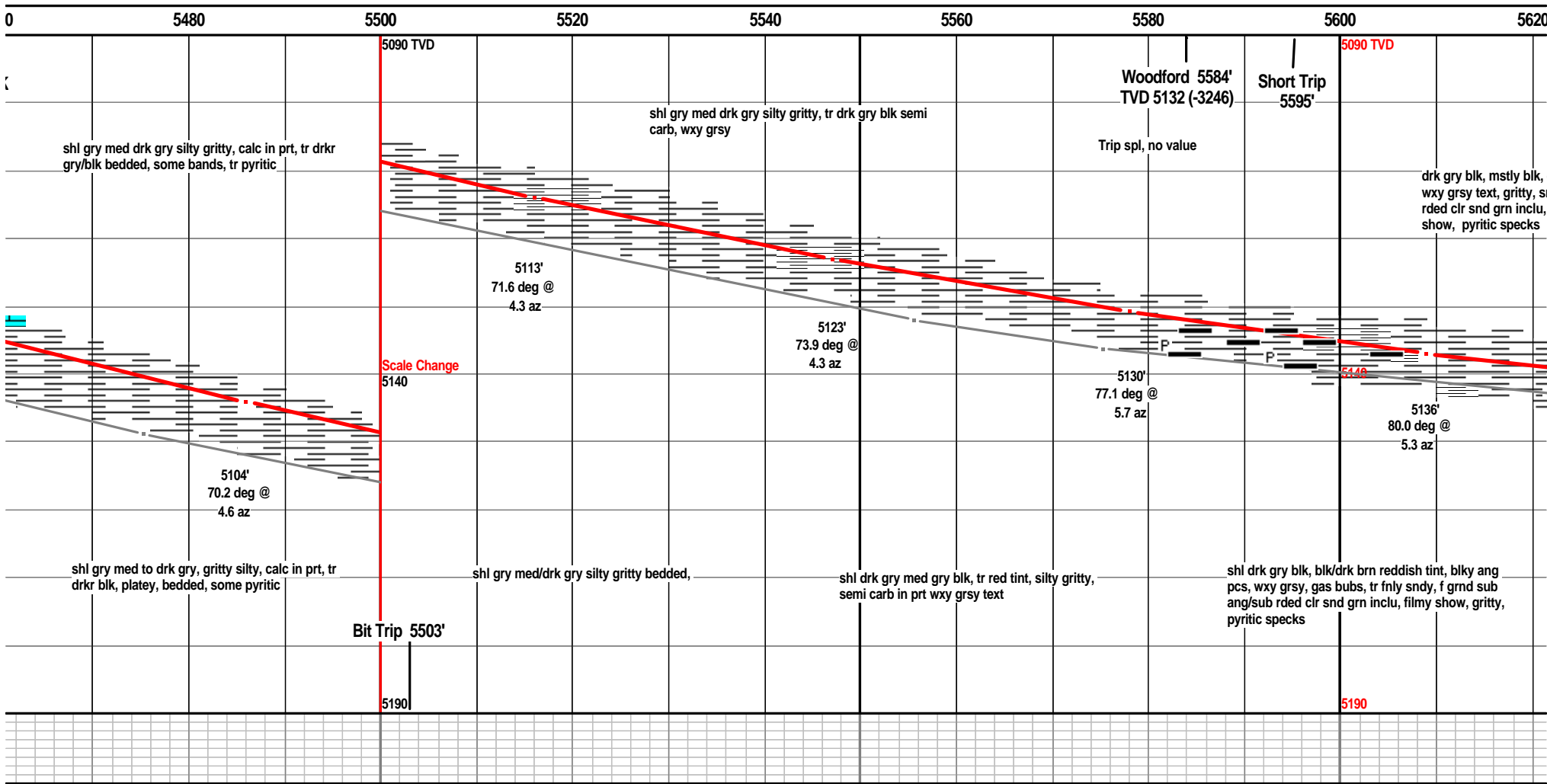
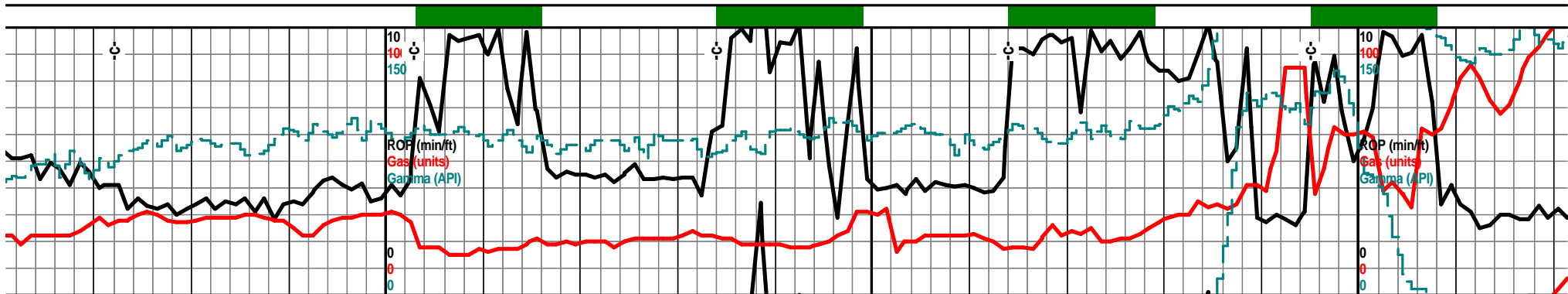


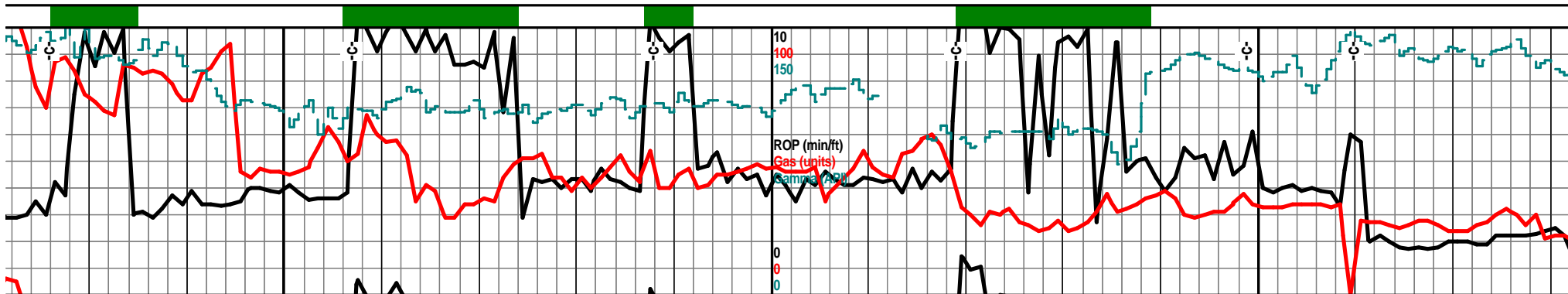


40 5160 5180 5200 5220 5240 5260 5280 530









5640 5660 5680 5700 5720 5740 5760 5780

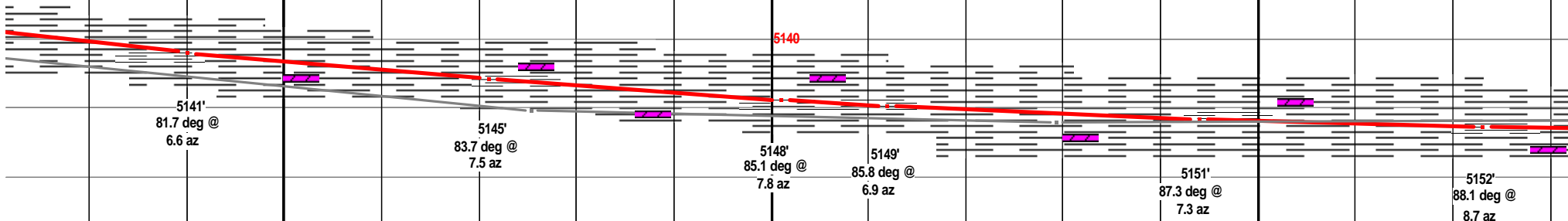
5435' 7am Tuesday Dec. 4, 2012
 Mud-Co. 5660' wt. 9.1 vis. 52 wl. 9.6 chl. 5,000
 5090 TVD
 7" casing depth 5760' Set at 5751' KB

drk reddish tint/blk, carb ndy, f grnd sug ang/sub abun gas bubs, filmy

sltstn drk gry, drk gry blk, blk, carb text in prt, wxy grsy text, silty sndy gritty pyritic, clr/frosted f grnd, sub ang/sub rded snd grn inclu, gas bubs,

sh/sltstn lt gry, med gry, med gry/brn silty gritty, silic text, sndy, vf grnd sub ang/sub rded snd grns, pyritic, beds, platy in prt

sltstn gry med drk gry silty gritty, text, micro/vf grnd sub ang/sub rd inclu

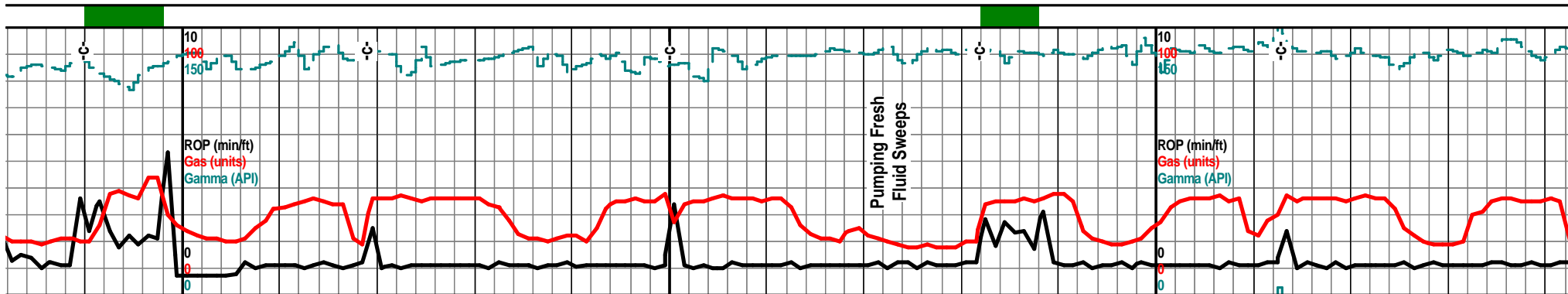


sh/sltstn drk gry blk, blk carb in prt, wxy grsy text, silty sndy, with clr f grnd sub ang/sub rded snd grns, pyritic, gas bubs, filmy show when brkn

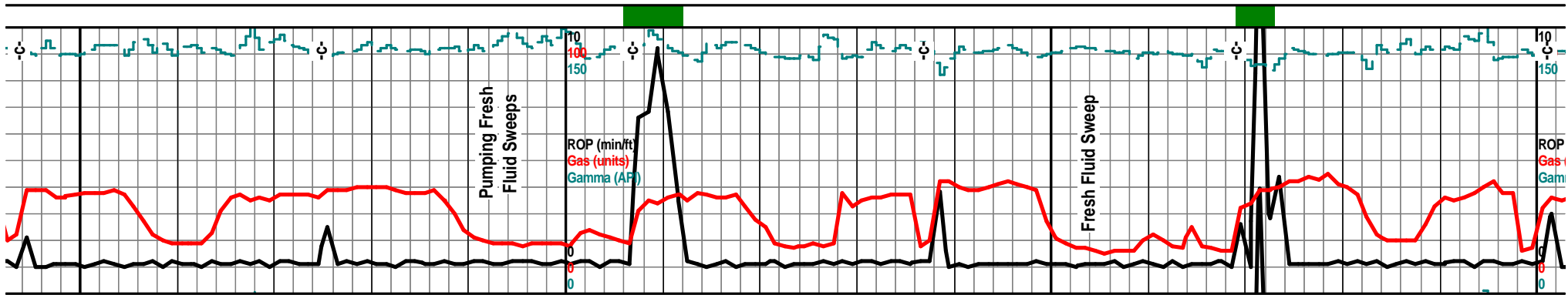
sltstn as before, shl lt med gry silic text shls, gritty, silty, pyritic,

sh/sltstn med tan brn silty gritty, silic in prt, sndy text, vf grnd sub rded/sub ang snd grn inclu, pyritic, tr filmy show, dry stain when brkn

5190



| 5800 | | 5820 | | 5840 | | 5860 | | 5880 | | 5900 | | 5920 | | 5940 | |
|---|--|---|--|-------------------------------|--|---|--|-------------------------------|--|----------|--|--|--|------|--|
| 5090 TVD | | | | | | | | | | 5090 TVD | | | | | |
| silic text, sndy led snd grn | | sh/sltstn drk gry, gry/blk, silty gritty, silic text, fnly sndy text, snd grn inclu | | | | sltstn gry drk gry, drk gry/blk silty gritty silic text, sndy gritty text, snd grn inclusions, sli pyritic in prt | | | | | | sh/sltstn dkdr ! look, fnly sndy filmy show/stai | | | |
| 5140 | | | | | | | | | | 5140 | | | | | |
| 5153' 89.5 deg @ 9.0 az | | 5153' 90.0 deg @ 9.4 az | | 5153' 90.3 deg @ 8.0 az | | 5153' 90.6 deg @ 8.3 az | | 5152' 90.8 deg @ 7.8 az | | | | | | | |
| sltstn drk gry gry/blk silty gritty, silic text, fnly sndy text | | sltstn gry dkr gry sli blk, silty gritty, silic text, sndy gritty text tr pyritic | | | | sltstn gry gry/brn blk, silty gritty, silic text, snd gritty, ptritic | | | | | | | | | |
| 5190 | | | | | | | | | | 5190 | | | | | |



5960

5980

6000

6020

6040

6060

6080

6100

5090 TVD

5090

gry brn/blk, silty, gritty, silic text, vf snd grn inclu, some pyritic in

sltstn drk gry/brn, brn/blk, silty gritty, gran silic text, sndy text, pyritic in prt

sh/sltstn drk gry/brn, med brn, silty, gritty, gran, silic text, acid-no, fnly sndy in prt, tr pyritic,

5140

5140

5152'
91.0 deg @
7.1 az

5151'
90.7 deg @
7.6 az

5150'
90.4 deg @
7.3 az

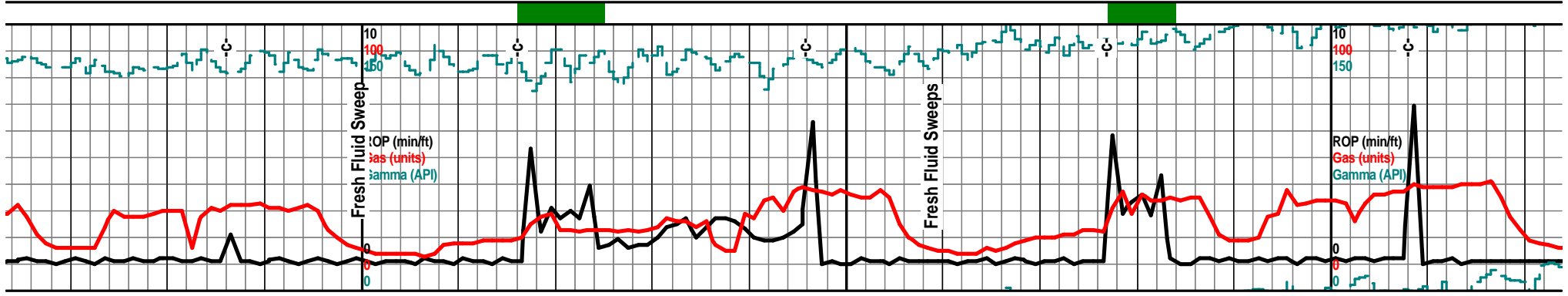
sh/sltstn drk gry, gry/brn, tr gry/blk, silty, gritty gran, silic text, sndy text, vfnly sndy, snd grn inclu

sltstn gry, gry gry/brn, gry blk, silty, gritty, gran, silic text, sndy text, pyritic in prt filmy show/stain

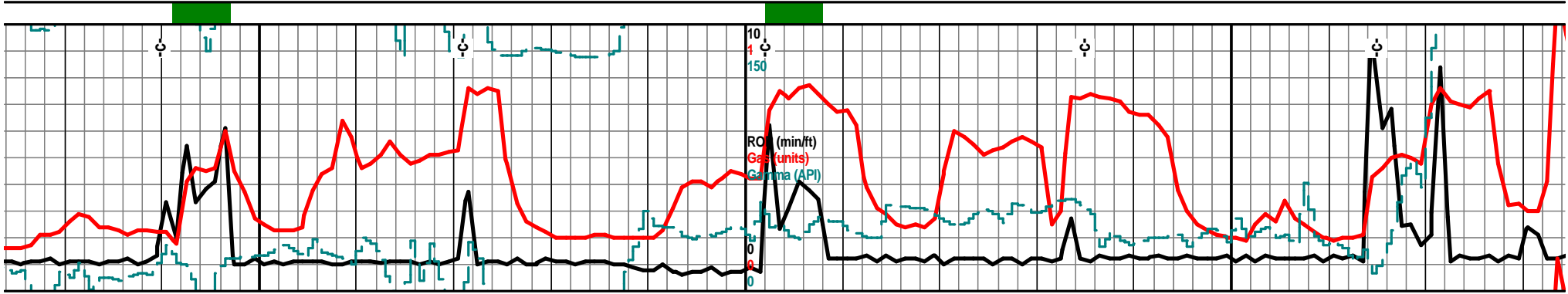
shsltstn med gry, gritty silic text, vfn

5190

5190



| 6280 | 6300 | 6320 | 6340 | 6360 | 6380 | 6400 | 6420 |
|---|---|------|--|------|---|--|----------|
| | 5090 TVD | | | | 6370' 7am Dec. 7, 2012 | | 5090 TVD |
| gritty, | sltstn/shl med gry, med gry/brn silty gritty, gran silic text, sndy gritty text in prt, some pyritic, soft mushy muddy splstr filmy show/stain rare gas bub | | | | sltstn med gry, med gry/brn silty. gritty, dolo/silic text, some sndy gritty text, vfn snd grn inclu in prt, pyritic in prt | | |
| | 5140 | | | | | 5140 | |
| 5150' 91.3 deg @ 5.3 az | | | 5149' 90.6 deg @ 5.3 az | | | 5148' 90.1 deg @ 6.0 az | |
| sltstn drk gry/brn, med brn, silty gritty, gran silic text, pyritic | | | sh/sltstnl med gry, med gry/brn silty gritty, dolo/silic text, some sndy gritty text, vfn snd grn inclu, pyritic | | | sltstn gry drk gry/brn silty gritty, gran silic text, soft, mushy, pyritic | |
| | 5190 | | | | | 5190 | |



6440

6460

6480

6500

6520

6540

6560

6580

5090 TVD

siltstn drk gry/brn silty gritty, silic text, sndy gritty text, soft, gran pyritic, tr filmy show/brkn, rare gas bub

shl, siltstn, drk gry bec drkr gry blk, reddish tint, silty gritty, silic text in prt, incr sndy text, vf grnd snd grn inclu, pyritic, tr odd gas bubs, filmy stain

shl, siltstn, vry drk gry/blk with reddish tint, silty sndy, silic text, clr f grnd sub rded/sug ang snd grn inclu, filmy show, tr gas bub, faint scatt UV

5140

5148'
90.6 deg @
8.2 az

5147'
90.6 deg @
8.5 az

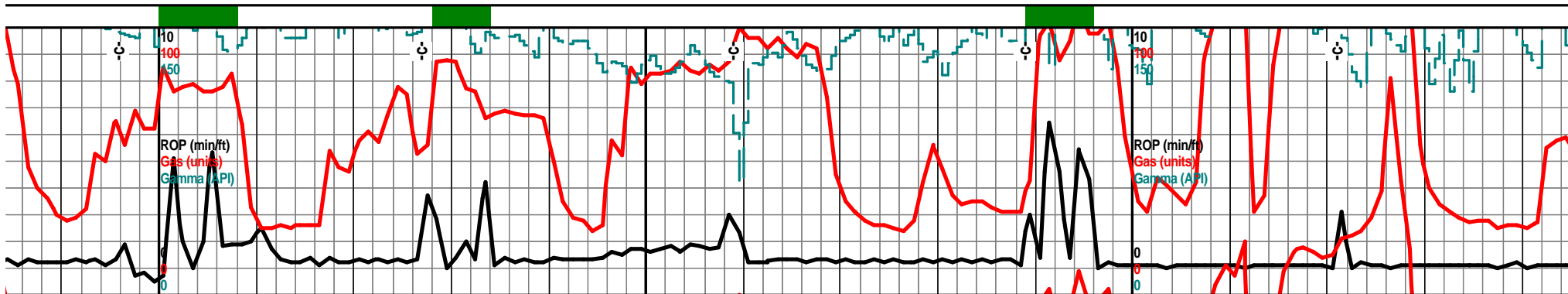
5146'
90.9 deg @
9.2 az

sh/siltstn med/drk gry-brn silty gritty, gran silic text, sndy text in prt, pyritic

siltstn drk gry/brn, reddish brn, (brk reddish) silty gritty sndy, silic in prt, pyritic, blk carb flks, tr filmy dry show, tr rare gas bub

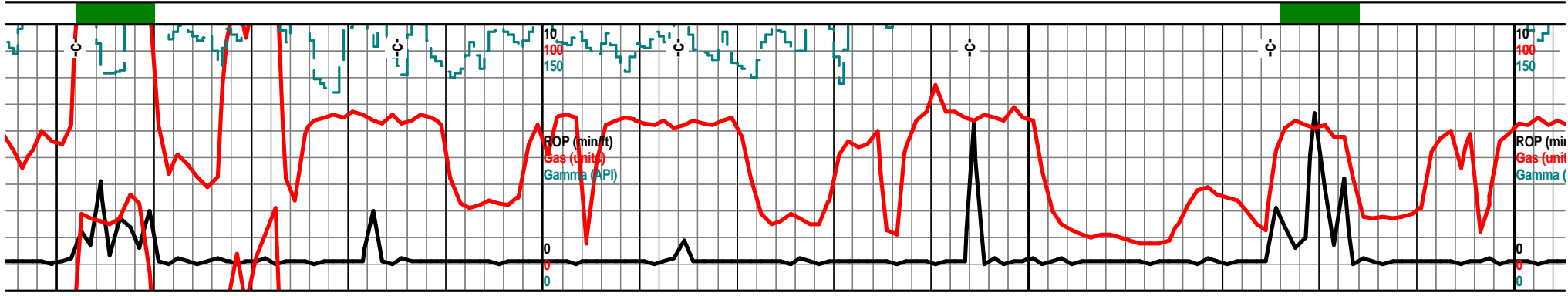
shl, siltstn \ gritty, tr sil snd grn inc show,

5190



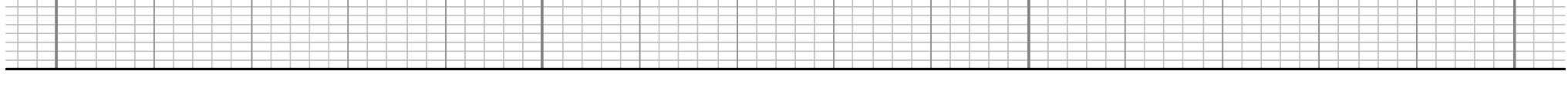
6600 6620 6640 6660 6680 6700 6720 6740

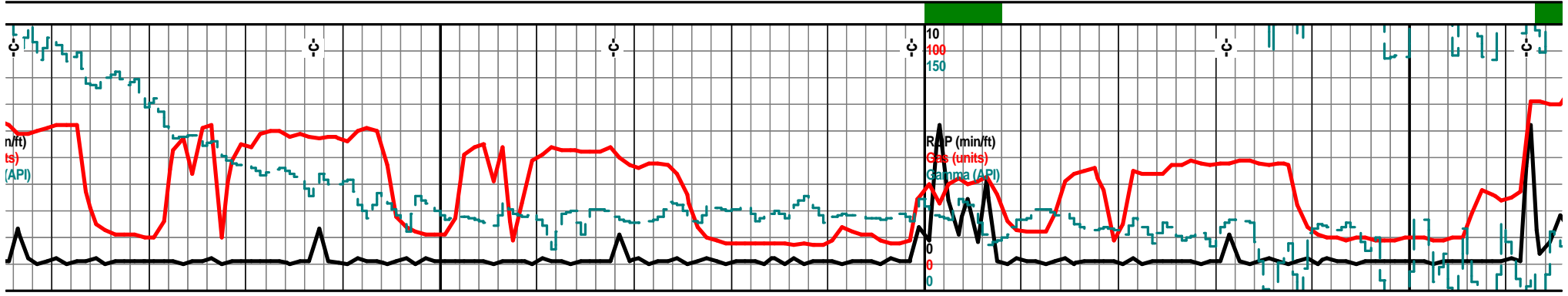
| | | | | | | | | | | |
|--|----------|--|--|--------------------------------|--|--------------------------------------|---|--|--|--|
| | 5090 TVD | | | | | 6 pm 6690' Friday Dec. 7, 2012 | 5090 TVD | | | |
| | | shl drk gry blk, carb text, wxy grsy pcs, sndy silty gritty, silic text in prt, clr vf grns sub ang snd grn inclu, pyritic in prt filmy show, rare gas bub, faint UV | | | | | | | shl sltstn drk gry brn, reddish brn blk, silty gritty, gran silic text, sndy text, vf grnd sub ang snd grn inclu, filmy show, rare gas bub w/smashed. brkn | |
| | 5140 | | | | | | 5140 | | | |
| | | | | 5146' 90.1 deg @ 11.1 az | | | 5146' 89.8 deg @ 12.0 az | | | |
| very drk gry, drk gry brn/blk, silty ic text, clr fn grnd sub ang/sub rded :lu, pyritic, tr rare gas bub, tr filmy | | | sh/siltstn drk gry blk, reddish tint/brkn, silty gritty, gran silic text, sndy in most, vf grnd sub ang snd grain inclu, pyritic bands, bedded, tr rare gas bub/brkn, filmy show | | | | sh/siltstn drk gry blk, drk reddish brn/blk silty gritty, gran silic text, sndy text, snd grn inclu, pyritic, tr rare gas bub w/brkn, filmy stain | | | |
| 5190 | | | | | | | 5190 | | | |



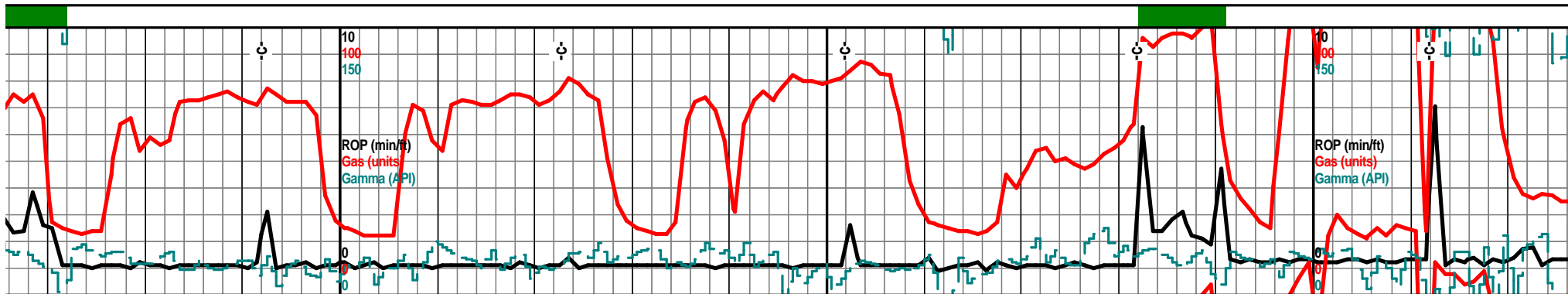
6760 6780 6800 6820 6840 6860 6880 6900

| | | | | | | | | | | | |
|--|--|--|---|--|--|--|--|--|--|--|--|
| | | | 5090 TVD | | | | | | | | 5090 TVE |
| | | | shl, siltstn drk gry semi blk, drk brn red, reddish in prt, w/brkn, silty, gritty gran, some silic test, sndy text, filmy brn show, | | | | | | | | shl dkr gry. drk gry/reddish brn/blk silty, gritty, gran silic text in most, blk carb text, wxy grsy, gas bubs, brn slimy dry show |
| | | | 5140 | | | | | | | | 5140 |
| | | | 5147' 88.9 deg @ 12.2 az | | | | | | | | 5148' 88.6 deg @ 11.8 az |
| | | | shl, siltstn drk gry, drk brn blk reddish in prt, silty, gritty, gran silic text, sndy, snd grn inclu, pyritic, filmy show, rare gas bub when crushed | | | | | | | | shl gry drk gry blk, blk carb tect wxy grsy, silty, gritty, bedded, pyritic, sndy text, gas bubs, filmy brn dry show |
| | | | 5190 | | | | | | | | 5190 |

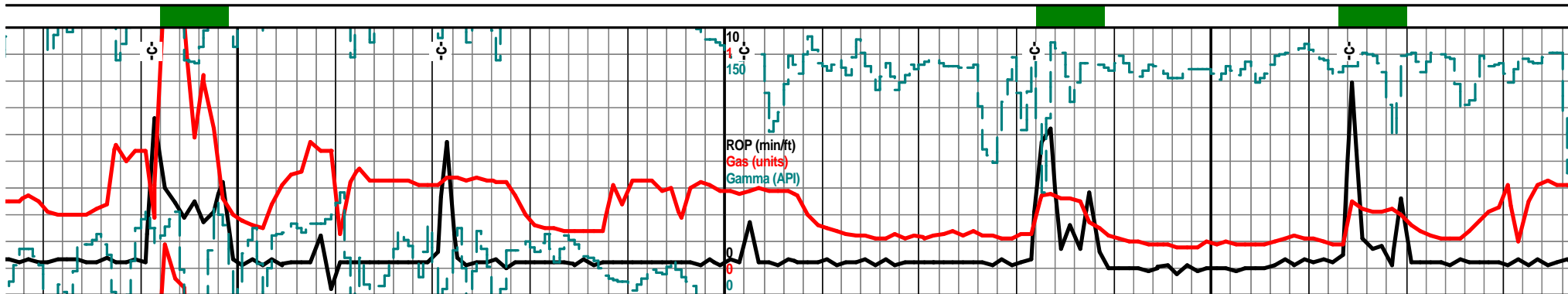




| 6920 | 6940 | 6960 | 6980 | 7000 | 7020 | 7040 | 7060 |
|---|------|--|---|----------|---|------|------|
| | | | | 5090 TVD | | | |
| sh/siltstn drk gry/blk, tr with reddish tint, silty gritty, some sndy, sndy grn inclu, gran semi silic text, some carb text, wxy grsy, gas bubs w/brkn, tr filmy show | | | siltstn drk gry/brn, med brn, silty gritty, gran silic text, sndy in prt, snd grn inclu, pyritic, bedded, tr filmy show, rare gas bub | | siltstn/shl, drk gry/brn med silic text, pyritic, sndy text, | | |
| | | | 5140 | | | | |
| | | | 5150' 89.0 deg @ 12.6 az | | 5151' 89.3 deg @ 11.3 az | | |
| gry/reddish brn/blk, silty, ct, tr blk carb text, pyritic, gas bubs, rare filmy show | | sh/siltstn drk gry brn, silty, gritty, gran silic text, pyritic, sndy gritty in some | | | siltstn drk gry/brn, med brn, silty gritty, gran silic text, sndy, vf grnd sub ang sud grn inclu, pyritic, filmy show | | |
| | | | 5190 | | | | |



| 7080 | 7100 | 7120 | 7140 | 7160 | 7180 | 7200 | 7220 |
|---|----------|--|-------------------------------|------|---|-------------------------------|--|
| | 5090 TVD | | | | | | 5090 TVD |
| | | 7 am 7120' Saturday Dec. 8, 2012 | | | | | |
| brn gritty silty, gran snd grn inclu | | shldrck blk wxy grsy, siltstn drk gry brn silty gritty, gran silic text, sndy text, vf grnd sub ang snd grn inclu, pyritic in prt, | | | shl siltstn drk gry brn, med drk brn, silty gritty, pyritic, some gran silic text, sndy, f vf grm sub ang snd grn inclu, tr gas bubs, rare filmy dry show | | |
| | 5140 | | | | | | 5140 |
| 5151' 89.9 deg @ 10.1 az | | | 5151' 90.3 deg @ 9.9 az | | | 5151' 89.4 deg @ 9.2 az | |
| | | shl/siltstn drk gry/brn, med drk brn, silty gritty, pyritic, gran silic text, snd grn inclu, filmy show, rare gas bub w/crushed | | | shl/siltstn drk gry brn, med drk brn, silty gritty, some gran silic text, sndy text, vf grnd sub ang snd gry inclu, pyritic, tr gas bubs, filmy shows rare | | siltstn, drk gry/brn, drk brn silty gritty tr sndy, vf grnd sub ang snd grn inclu, tit quartzitic snd clstrs, wht lt gry, fn grnd NS, filmy shows, gas bubs |
| | 5190 | | | | | | 5190 |



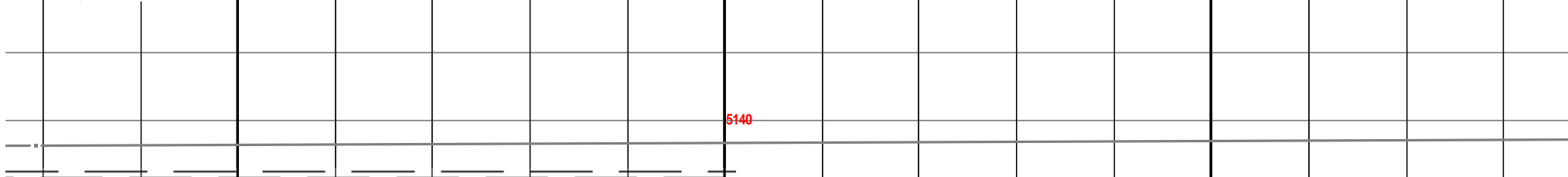
7240 7260 7280 7300 7320 7340 7360 7380

5090 TVD
 Mud-Co. 7255'
 wt. 9.5 vis. 27
 wl. N/C chl. 96,000

siltstn/shl, drk gry brn, med brn, silty gritty vry sndy, vf grnd sub rded snd grn inclu, pyritic, lt gry clear to opaqt quartzitic text sst, loose in tray and bedded with siltstns NS with sst, filmy show, tr gas with other

dolstn, siltstn drk brn reddish brn, silty, gritty, gran silic text, sndy text, f vf grnd sub ang snd grn inclu, pyritic, filmy show, rare vis gas bubs

siltstn med gry/brn silty gritty, silic text, le text, less pyritic content.



5152'
 88.0 deg @
 9.0 az

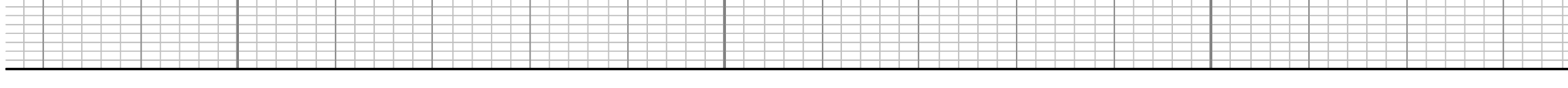
5155'
 87.8 deg @
 9.9 az

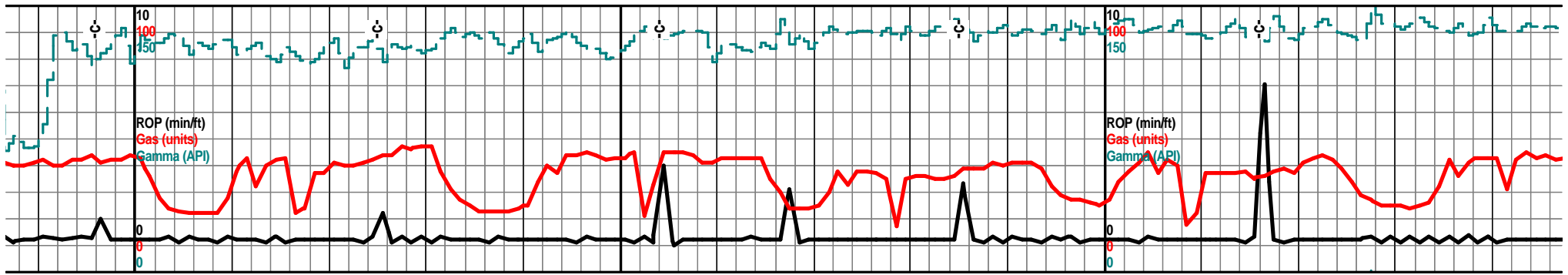
5156'
 88.9 deg @
 7.5 az

silic, vry e dns well cem

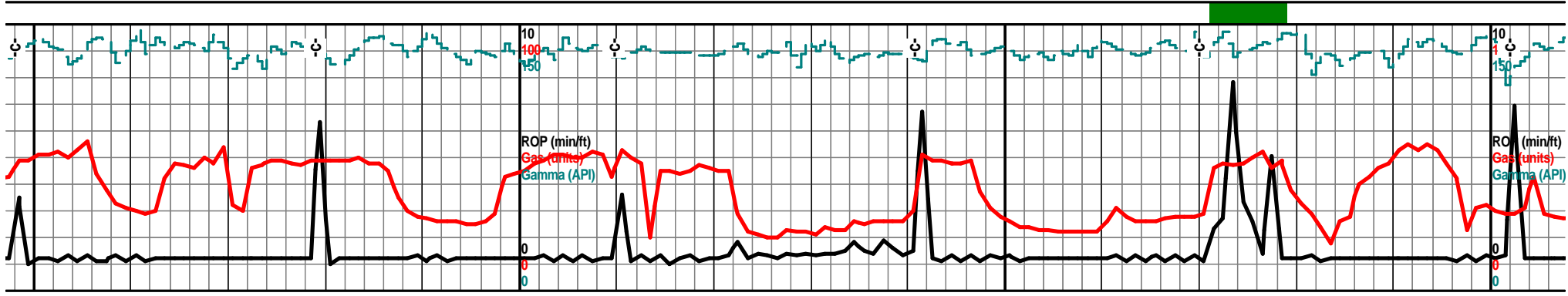
siltstn drk gry/brn, drk brn med brn silty gritty vry pyritic, sndy silic text, clr vf grnd sub ang snd grn inclu, filmy show, tr rare gas bub

dolstn/siltstn drk brn tr reddish brn silty gritty, gran silic text, sndy text, vf grnd sub ang snd grn inclu, pyritic, filmy show





| 7400 | 7420 | 7440 | 7460 | 7480 | 7500 | 7520 | 7540 |
|--|---|--|---|---|-------------------------------|---|--|
| 5090 TVD | | 7433' 5 pm Saturday Dec. 8, 2012 | | | 5090 TVD | | |
| ss sndy | dolstn/siltstn med brn silty gritty, some sndy text, gran silic text, pyritic, vry fnly sndy/gritty text, | | | dolstn, siltstn med gry brn, med brn vf grnd, silty gritty gran silic text, some vfnly sndy text, pyritic | | | dolostn/siltstn med grybrn, gritty, pyritic, dns soft, tr sr |
| 5140 | | | | | 5140 | | |
| siltstn drk gry brn silty gritty, gran silic text, tr pyritic, some snd grn inclu, silty shly text | | 5157' 89.4 deg @ 6.9 az | dolstn/siltstn me brn, med gry brn vf grnd, silty gritty, gran silic text, vry fnly sndy text in prt, pyritic | | 5158' 89.7 deg @ 7.8 az | dolostn/siltstn me gry brn vf grnd fnly silty, pyritic, gran silic text, dns soft, tr filmy show, very rare gas bub/crushed | |
| 5190 | | | | | 5190 | | |



7560

7580

7600

7620

7640

7660

7680

7700

5090 TVD

5090 TVD

SAMPLES VERY FINE
MUDDY PASTE

brn vf grnd, silty,
rdy text,

dolostn'siltstn med gry/brn fn grnd, silty, gritty,
gran sli sndy silic text, soft, pyritic in prt, rare gas
bub w/crushed, filmy dry show, floating pcs.

dolo siltstn med/drk gry/brn, med to drk brn, vf
grnd, silty, gritty, some sndy text in prt, some vf
grnd sub ang snd grn inclu, pyritic, rare gas bubs
w/crushed

5140

5140

5158'
90.2 deg @
7.3 az

dolostn'siltstn med gry brn, med brn fngrnd silty
gritty pyritic, gran silic text

5157'
90.8 deg @
7.5 az

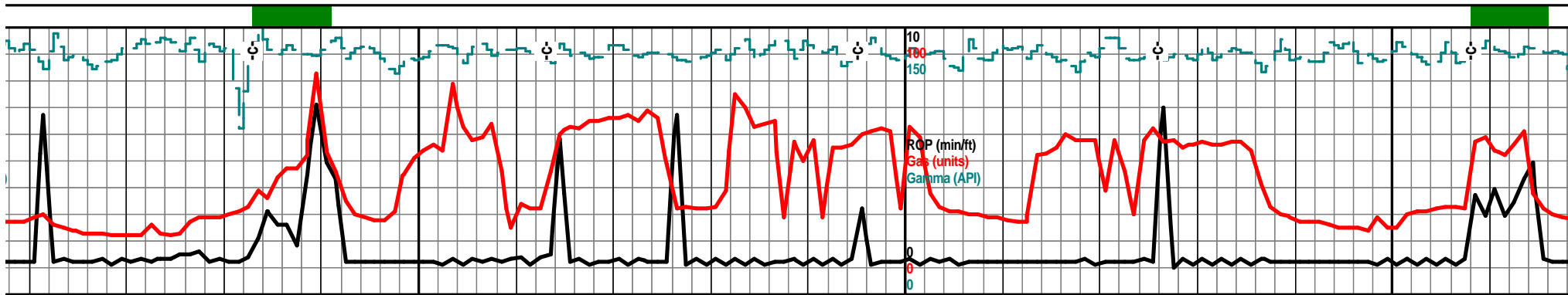
siltstn drk gry brn/ med drk brn vf grnd, silty,
gritty, gran silic text, some sndy text, vf grnd sub
ang snd grn inclu, pyritic, loose pyrtic pcs

5157'
90.5 deg @
9.0 az

dolo siltstn brn/drk brn
sndy text in prt, gran s
sub ang snd grn inclu,
rare gas bub w/crushe

5190

5190



7720

7740

7760

7780

7800

7820

7840

7860

5090 TVD

7 am 7826'
Sunday
Dec. 9, 2012

SAMPLES VERY FINE
MUDDY PASTE

dolostn, siltstn vf grnd silty gritty, gran silic text,
some pyritic, gran silic text, tr blk carb wxy grsy
text, some sndy text with snd grn inclu tr gas bub
w/crushed

siltstn, shls, drk gry brn reddish brn vf grnd silty
gritty tr blk carb flecks, gran silic text, pyritic,
muddy spls, tr rare gas bubs w/crushed, tr filmy
show

dolo siltstn reddich brn, drk red brn
gritty, gran silic text, blk carg organi
pyritic, tr rare gas bubs, tr filmy sho

5140

n, vf grnd, silty, gritty, some
silic text, some with vf grnd
, pyritic, bedded and loose,
d

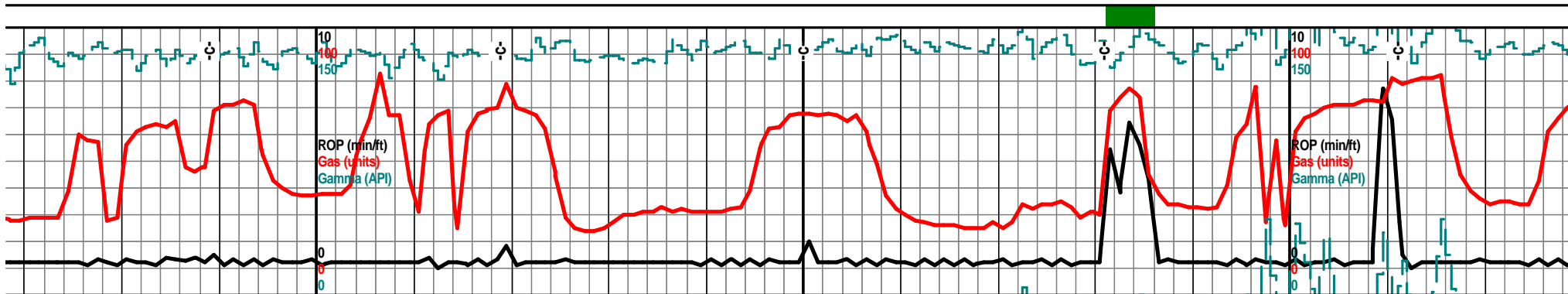
5157'
89.8 deg @
8.7 az

siltstn/shl drk gry brn, drk brn some reddish brn
silty, gran, silic text, some with tr blk carb wxy
grsy text,

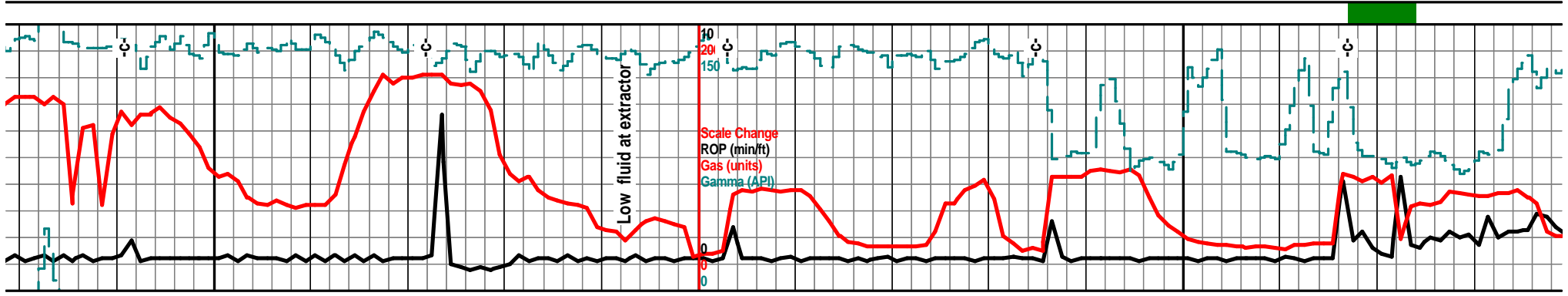
5156'
90.4 deg @
8.7 az

siltstn shl, drk gry brn, med drk reddish brn, vf
grnd, silty gritty, gran silic, pyritic, soft tr rare gas
bub w/crushed, filmy shows

5190



| 7880 | 7900 | 7920 | 7940 | 7960 | 7980 | 8000 | 8020 |
|---------------------------------------|----------|---|------|---|------|---|----------|
| | 5090 TVD | | | | | Mud-Co. 7996' wt. 9.5 vis. 29 wl. N/C chl. 96,000 | 5090 TVD |
| | | | | SAMPLES VERY FINE MUDDY PASTE | | | |
| vf grnd silty ic flecks/beds, w | | dolo siltstn dr gry/brn, reddish brn, vf grnd, silty, gritty, gran silic text, blk carb flecks/inclu, pyritic | | | | dolo siltstn drk gry brn, redd/brn, drk brn, vf grnd, silty gritty, some sndy text, vf grnd sub ang snd grns, gran silic text, tr blk carb inclu, tr gas bubs when crushed | |
| | 5140 | | | | | | 5140 |
| | | | | | | | |
| 5156' 89.6 deg @ 8.3 az | | | | 5157' 89.7 deg @ 9.4 az | | 5157' 89.3 deg @ 8.3 az | |
| | | dolo siltstn drk gry/brn, reddish drk brn fn grnd, silty, gritty, gran silic text, blk carb specks/inclu, pyritic | | dolo siltstn drk gry brn, reddish brn drk brn, vf grnd silty gritty pyritic, gran silic text, some blk carb inclu, tr gas bub/crushed | | siltstn drk gry brn, red/brn drk brn vf grnd silty gritty pyritic, gran silic text, tr sndy text, blk cart inclusions, gas bubs | |
| | 5190 | | | | | | 5190 |



8040 8060 8080 8100 8120 8140 8160 8180

Bit-Tool Trip
8103'

dolstn, siltstn drk gry/brn drk brn vf grnd silty gritty pyritic, gran silic text, blk wxy grsy carb inclu, gas bubs

dolo siltstn drk brn drk reddish brn, vf vgrnd, silty, gritty, tr pyritic, some sndy text, vf grnd sd grn inclu, blk wxy grsy carb chl inclu, gas bubs

dolo siltstn drk brn blk, wxy grsy carb in prt, silty gritty vf grnd try pyritic, gran silic text some blk carb flecks, gas bubs, chrt off wht lt gry smokey color, shrp frsh opaqr pyritic

5140

5158'
89.6 deg @
8.5 az

dolo siltstn drk brn bec drkr, f vf grnd, silty gritty, gran silic text, pyritic, blk wxy grsy gassy car shl inclusions, gas bubs w/brkn

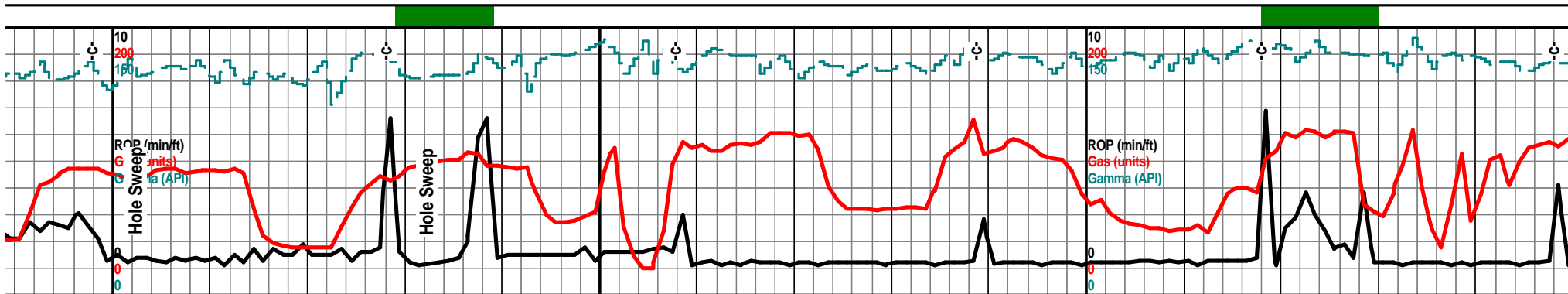
5158'
90.4 deg @
8.5 az

dolo siltstn drk gry brn drk brn fn grnd silty gritty, gran silic text, pyritic as before not a change here guys

5157'
91.0 deg @
8.2 az

siltstn shl, drk text and blk, tr bubs, chrt lt gr

5190



8200 8220 8240 8260 8280 8300 8320 8340

5090 TVD

siltstn drk brn red brn blk vf gnd silty pyritic, gran dolo silic text, some blk wxy grsy carb text pcs and inclu, gas bubs, chrt off wht lt gry smokey color, shrp frsh opaq,

dolo siltstn drkn gry brn, drk brn vf gnd, silty gritty, gran silic text, pyritic in prt, blk grsy wxy carb shl inclu, gas bubs, filmy show

dolo siltstn drk gry brn , drk gritty pyritic, gran silic text, carb inclu, gas bubs

5140

5140

5156'
91.6 deg @
8.3 az

5155'
91.6 deg @
7.8 az

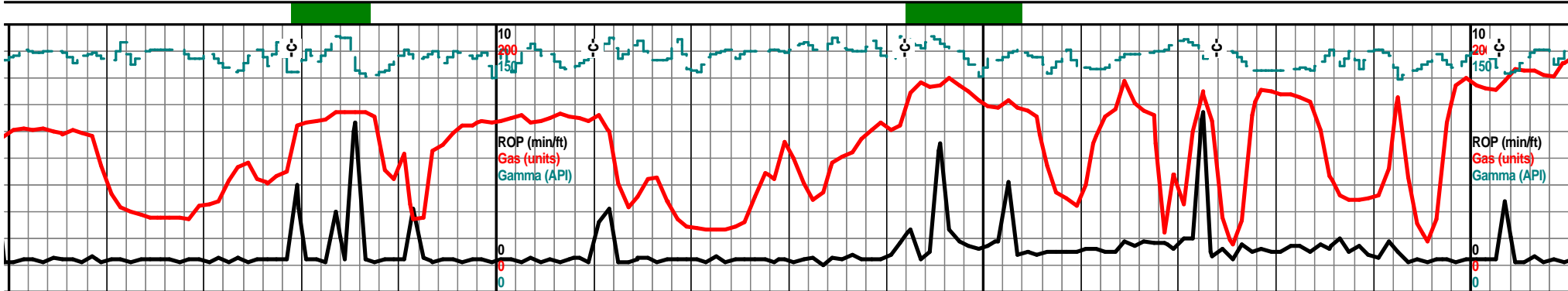
gry vf gnd silty gritty grans silic 'grsy, wxy, semi carb shl. gas y smokey shrp frsh opaq pyritic,

dolo siltstn brn drk brn vf gnd silty gritty gran silic text, sndy gritty in prt, some chrt off wht lt gry smokey shrp frsh pyritic opaq

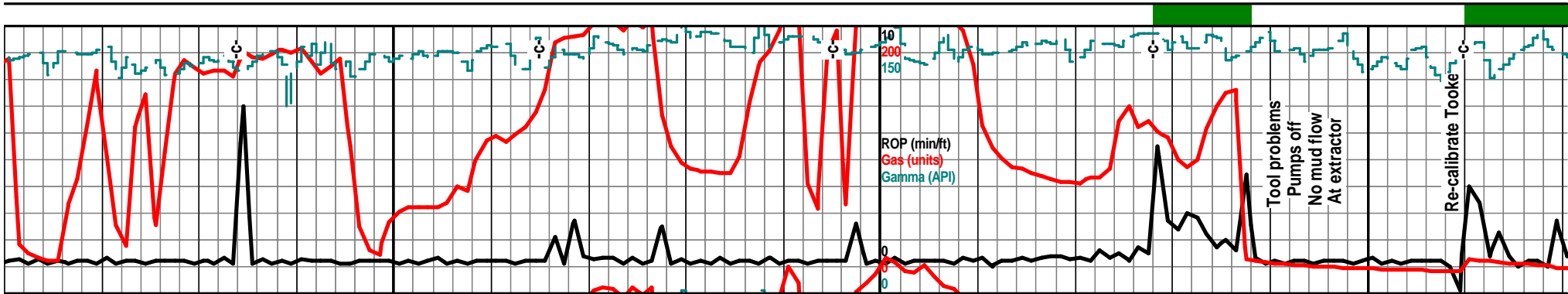
dolo siltstn drk gry brn, drk brn, vf gnd, silty gritty, pyritic in prt, gran silic text, some blk carb inclu, gas bubs

5190

5190

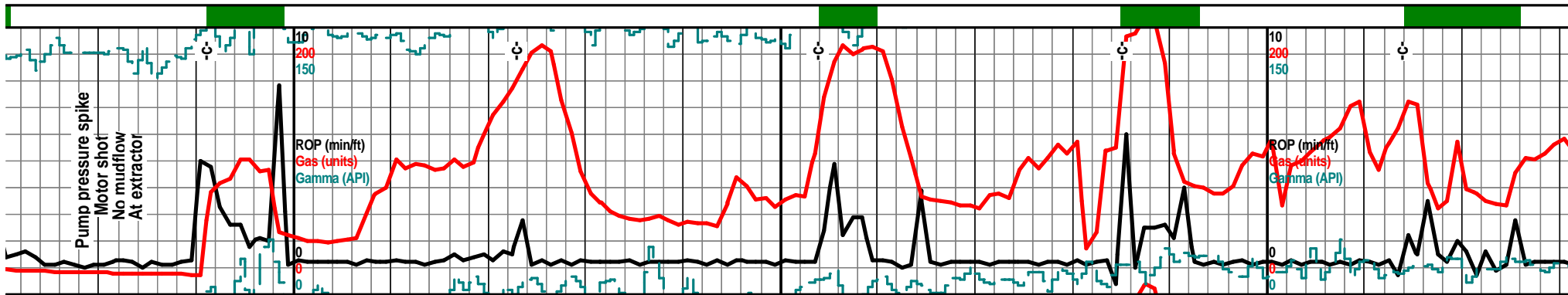


| 8360 | 8380 | 8400 | 8420 | 8440 | 8460 | 8480 | 8500 |
|--|------|--|------|---|-------------------------------|---|--|
| | | 5090 TVD | | | | | 5090 TVD |
| | | SAMPLES FINE PASTE | | | | | |
| med brn vf grnd silty tr sndy text, some blk | | siltstn, shly dolo siltstn, drk gry/blk silty gritty, gran silic text, incr sndy snd grn inclu text, blk carb shls, wxy grsy blkly ang pcs. gas bubs filmy show | | | | dolo siltstn drk gry drk gry/blk vf grnd, gritty silty, gran silic text, some pyritic, tr sndy text, vf grnd sub ang snd grn inclu, blk carb wxy grsy inclu gas bubs | |
| | | 5140 | | | | | 5140 |
| | | 5152' 91.1 deg @ 8.9 az | | | 5151' 90.0 deg @ 8.7 az | | |
| dolo siltstn brn dkr brn some reddish color, vfn grnd, silty gritty, gran silic text, bk carb inclu, gas bubs, pyritic, filmy show | | | | dolostn, shls, siltstns, vry drk gry some blkly f grnd silty gritty, some sndy, gran silic text, blk wxy grsy carb, blkly ang pcs, gas bubs | | | dolo siltstn drk fry drn gry/blk vf gr gran silic text, some pyritic, tr snd sub ang snd grn inclu, blk wxy grsy gas bubs |
| | | 5190 | | | | | 5190 |

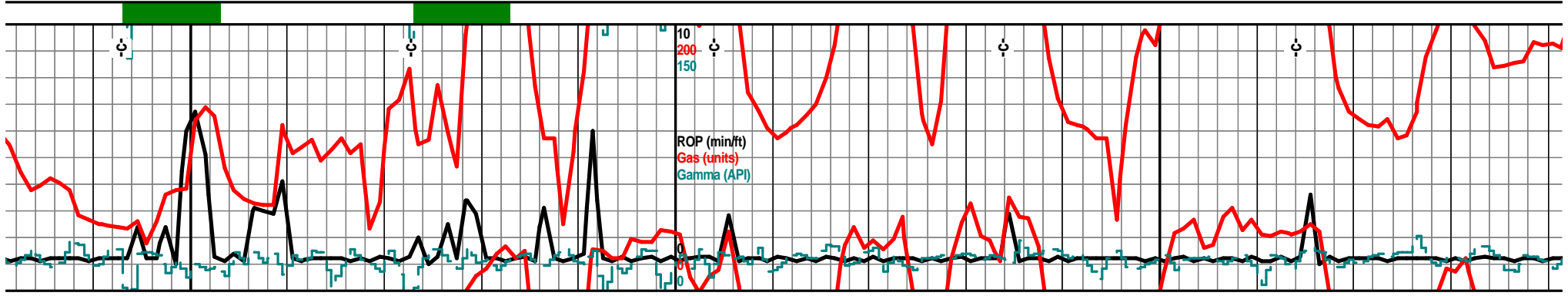


8520 8540 8560 8580 8600 8620 8640 8660

| | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| | | | | | 5090 TVD | | | Mud-Co. 8660' wt. 9.4 vis. 30 wl. N/C chl. 150,000 |
| dolo siltstn drk gry brn vf grnd silty gritty gran silic text, pyritic in prt, much blk carb wxy grsy inclu, gas bubs | | | | | siltstn drk gry/brn, drk brn vf grnd, silty gritty, gran silic text, pyritic, blk carb inclu, wxy grsh gassy, gas bubs | | Trip out, replace motor 8660' | |
| | | | | | 5140 | | | |
| 5152' 89.7 deg @ 8.5 az | | | | | 5152' 88.9 deg @ 8.7 az | | 5155' 86.5 deg @ 9.2 az | |
| nd gritty, silty, text, vf grnd n carb inclu | | | | | siltstn drk gry brn, drk brn vf grnd gritty silty, gran silic text, blk carb inclu, blk wxy grsy gassy pcs, gas bubs | | dolo siltstn drk grn brn, drk brn some blk, vf grnd silty gritty pyritic in prt, gran silic text, black carb inclu, blk ang wxy grsy gassy pcs | |
| | | | | | 5190 | | | |



| 8680 | 8700 | 8720 | 8740 | 8760 | 8780 | 8800 | 8820 |
|---|------------------------------------|--|------|---|---|----------|--|
| | 5090 TVD | | | | | 5090 TVD | |
| | Trip out 8691' Replace motor #2 | | | | | | |
| ne blk, vf grnd nclu, many | | dolo siltstn drk gry, gry/brn vf grnd silty, gritty, gran silic text, blk carb shls, gritty silty, wxy grsy gas bubs | | | dolo siltstn, drk gry/brn drk brn, silty gritty gran silic text, bedded, and blk silty sli silic carb shl, blky ang pcs, pyritic in prt, good vis gas | | |
| | 5140 | | | | | 5140 | |
| | | | | | | | dolo siltstn drk gry brn, drk brn vf grnd silty gritty, silic gran text, shl drk gry blk, wxy grsy blky ang pcs, abun gas bubs |
| | | 5159' 86.6 deg @ 8.9 az | | | 5162' 87.7 deg @ 7.3 az | | 5163' 89.2 deg @ 6.0 az |
| sample poor, mstly beads and nutplug, dolo siltstn as before | | | | dolo siltstn ddrk gry brn. med brn tr drk brn vf grnd silty gritty gran silic text, much blk carg silty gritty shl pcs, blky ang pcs, wxy grsy text, abun gas bubs | | | |
| | 5190 | | | | | 5190 | |



8840 8860 8880 8900 8920 8940 8960 8980

5090 TVD

dolo siltstn drk gry brn to brn drk brn vf grnd silty
gritty, gran silic text, blk carb shl, blk carb inclu,
wxy grsy, abun gas bubs

dolo siltstn drk gry/brn, drk med brn vf grnd silty
gritty, gran silic text, blk carb inclu, wxy grsy blk
ang blk carb pcs, abun gas bubs

dolo siltstn drk brn, brn blk, vf grnd silty gritty,
gran silic text, blk carb inclu, blk carb silty dolo
text silts, tr wxy grsy text, abun gas bubs, tr filmy
sfo

dolo siltstn drk gry brn, meb/drk brn vf grnd silty,
gritty, tr pyitic, gran silic text, blk carb inclu, wxy
grsy, abun gas bubs

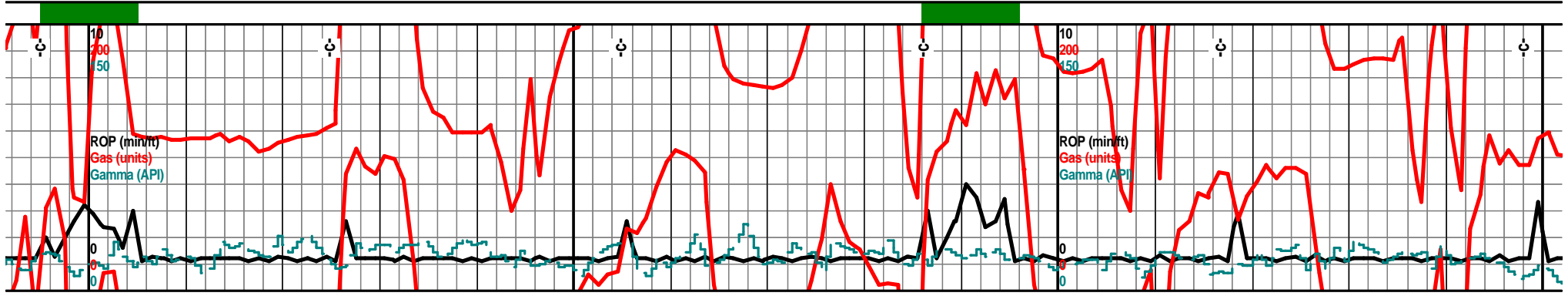
dolo siltstn drk gry brn drk brn vf grnd silty gritty,
gran silic text, blk carb inclu, blk carb dolo silts, tr
wxy grsy text, abun gas bubs, filmy SFO, RBSFO
nodor

dolo siltstn drk gry
gritty, gran silic tex
silty wxy grsy dolo
sho

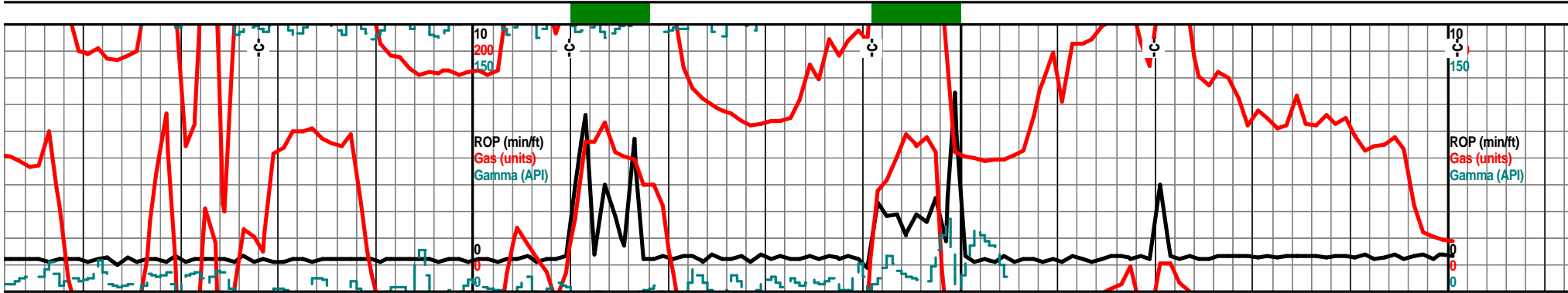
5163'
90.5 deg @
6.4 az

5163'
90.8 deg @
5.0 az

5190



| 9000 | 9020 | 9040 | 9060 | 9080 | 9100 | 9120 | 9140 |
|--|---|---|------|--|---|------|--|
| 9000' Midnight Dec. 12, 2012 | | | | | 5090 TVD | | |
| | dolo siltstn drk gry brn blk, silty gritty gran silic text, blk carb inclu, blk carb silty dolo text silts, tr wxy grsy text, abun gas bubs | | | siltstn dolo in all, drk gry brn, drk brn, silty gritty, gran silic text, some pyritic, blk carb shls/dolo silts, abun gas | | | dolo siltstn drk grn brn, gry gritty, gran silic text, some semi carb dolo silts, abun g |
| 5140 | | | | | 5140 | | |
| brn, drk brn vf grnd silty t, blk carb inclu, blk drk blk silts, abun gas bubs, tr filmy | | siltstn, dolo in most, drk gry brn, brn drn brn vf grnd silty gritty, gran silic text, some pyitic, blk carb shl inclu, blk carb silty dolo wxy grsy pcs abun gas filmy sFO | | | siltstn, dolo in all, drk gry brn, med/drk brn, vf grnd, silty gritty, gran silic text, some pyritic, blk carb shls/dolo silts, abun gas, filmy rbsfo | | |
| | | | | | | | |
| 5161' 91.6 deg @ 5.7 az | | | | 5160' 91.8 deg @ 5.0 az | | | 5157' 92.6 deg @ 4.1 az |
| 5190 | | | | | 5190 | | |



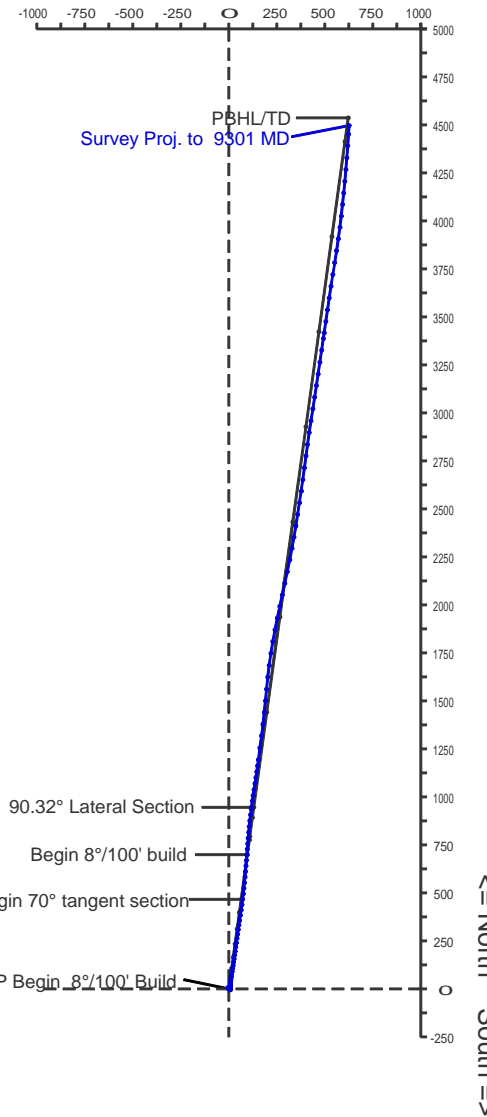
| 9160 | 9180 | 9200 | 9220 | 9240 | 9260 | 9280 | 9300 |
|---|------|---|---|--|--|--|---|
| | | 5090 TVD | 7 am 9220' Thursday Dec. 13, 2012 | Mud-Co. 9247' wt. 9.4 vis. 30 wl. N/C chl. 118,000 | | | 5090 TVD MTD 9301' |
| /brn, vf grnd silty pyritic, some blk drkr gas bubs | | dolo siltstn drk gry brn, med brn vf grnd silty gritty fnly xln text, gran silic text, much organic fill, blk carb fill, much gas bubs, filmy RBSFO, filmy shows | | | dolo/siltstns, drk gry brn, drk brn vf grnd, tr vf xln text, silty, gritty, gran silic text, organic text, blk carb silic silts, gas bubs, filmy shows | | |
| | | 5140 | | | | | 5140 |
| | | | | | | | Projected to 931 5152' 90.5 deg @ 4.1 az |
| | | 5154' 92.9 deg @ 4.3 az | | 5153' 90.5 deg @ 4.1 az | | | |
| dolo siltstn drk gry brn, med brn vf grnd silty gritty, gran silic text, some pyritic, fnly xln in prt, some blk dolo silts, carb in prt, some gas bubs | | | dolo siltstn drk gry brn drk brn vf grnd, silty gritty, gran silic text, organic fill, carb silts dolostns, wxy grsy, abun gas bubs, filmy show, fine spl pcs floating on sample cup water | | | dolo/siltstn, drk gry/brn, drk brn vf grnd silty, gritty, gran silic text, some pyritic, organic fill, blk carb silic silts, abun gas bubs | |
| | | 5190 | | | | | 5190 |

Woolsey Operating Company, LLC

Ricke Baier #1-H

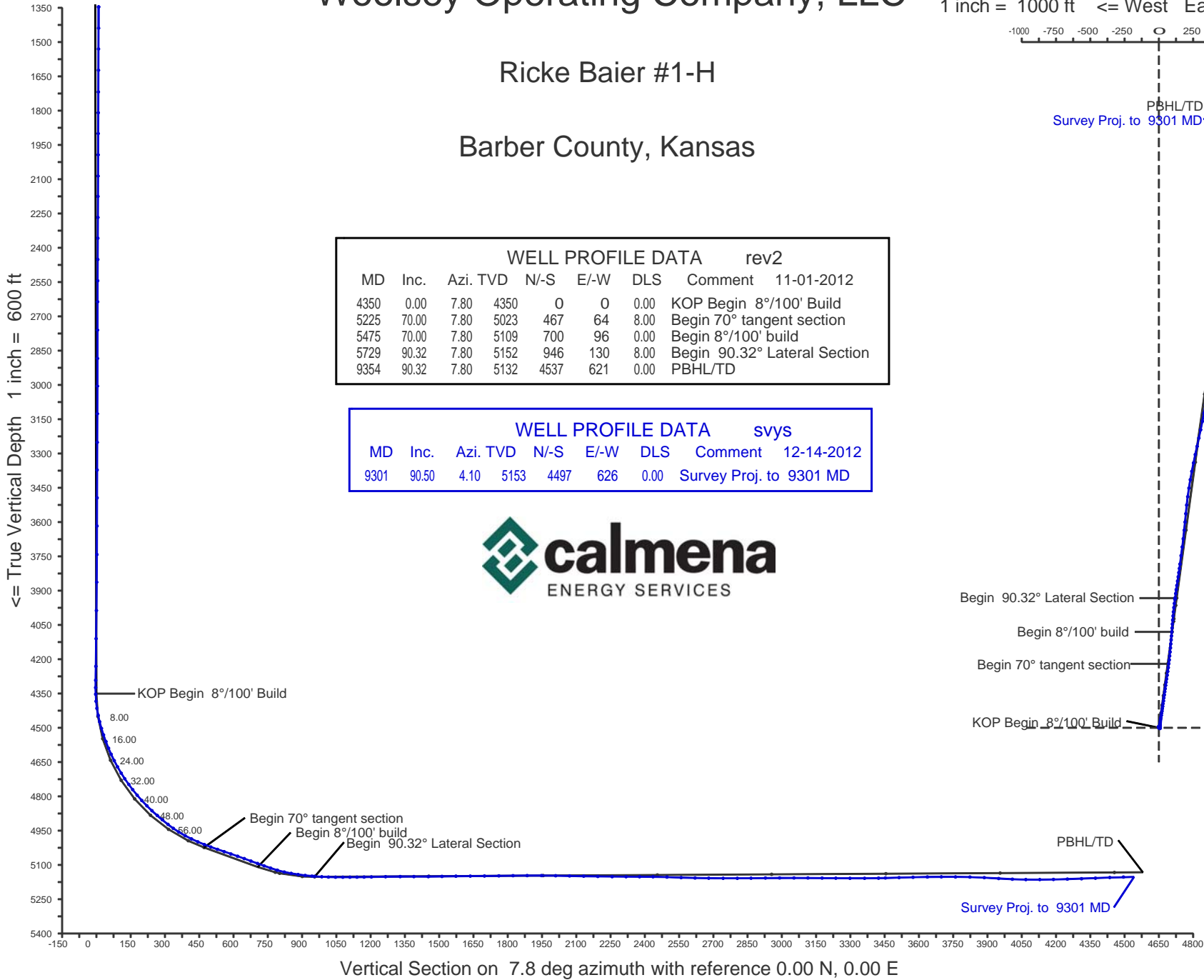
Barber County, Kansas

1 inch = 1000 ft <= West East =>



| WELL PROFILE DATA rev2 | | | | | | | |
|------------------------|-------|------|------|------|------|------|------------------------------|
| MD | Inc. | Azi. | TVD | N/-S | E/-W | DLS | Comment |
| 4350 | 0.00 | 7.80 | 4350 | 0 | 0 | 0.00 | KOP Begin 8°/100' Build |
| 5225 | 70.00 | 7.80 | 5023 | 467 | 64 | 8.00 | Begin 70° tangent section |
| 5475 | 70.00 | 7.80 | 5109 | 700 | 96 | 0.00 | Begin 8°/100' build |
| 5729 | 90.32 | 7.80 | 5152 | 946 | 130 | 8.00 | Begin 90.32° Lateral Section |
| 9354 | 90.32 | 7.80 | 5132 | 4537 | 621 | 0.00 | PBHL/TD |

| WELL PROFILE DATA svys | | | | | | | |
|------------------------|-------|------|------|------|------|------|-------------------------|
| MD | Inc. | Azi. | TVD | N/-S | E/-W | DLS | Comment |
| 9301 | 90.50 | 4.10 | 5153 | 4497 | 626 | 0.00 | Survey Proj. to 9301 MD |



Vertical Section on 7.8 deg azimuth with reference 0.00 N, 0.00 E

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Ricke Baier #1-H
 Location: Barber County, Kansas

Date: 14-Dec-2012
 Surveys
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 Job# : 6855

| MD (feet) | Inclination (degrees) | Azimuth (degrees) | TVD RKB (feet) | N/-S (feet) | E/-W (feet) | DLS (deg/100') | VS @ 7.80° Az (feet) | Grid Y | Grid X | Comments |
|-------------------------|--------------------------|----------------------|-------------------|----------------|----------------|-------------------|-------------------------|------------------|-------------------|----------|
| Surface Location | | | | | | | | 166745.00 | 1920975.00 | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 166745.00 | 1920975.00 | |
| 970.00 | 0.70 | 19.60 | 969.98 | 5.58 | 1.99 | 0.07 | 5.80 | 166750.58 | 1920976.99 | |
| 1002.00 | 0.70 | 20.30 | 1001.97 | 5.95 | 2.12 | 0.03 | 6.18 | 166750.95 | 1920977.12 | |
| 1063.00 | 0.80 | 17.30 | 1062.97 | 6.71 | 2.38 | 0.18 | 6.97 | 166751.71 | 1920977.38 | |
| 1158.00 | 0.90 | 26.80 | 1157.96 | 8.00 | 2.91 | 0.18 | 8.33 | 166753.00 | 1920977.91 | |
| 1252.00 | 0.60 | 350.20 | 1251.95 | 9.15 | 3.16 | 0.59 | 9.49 | 166754.15 | 1920978.16 | |
| 1346.00 | 0.30 | 253.70 | 1345.95 | 9.56 | 2.84 | 0.75 | 9.86 | 166754.56 | 1920977.84 | |
| 1439.00 | 0.40 | 250.00 | 1438.95 | 9.39 | 2.30 | 0.11 | 9.61 | 166754.39 | 1920977.30 | |
| 1530.00 | 0.40 | 257.20 | 1529.94 | 9.21 | 1.69 | 0.06 | 9.35 | 166754.21 | 1920976.69 | |
| 1623.00 | 0.50 | 256.90 | 1622.94 | 9.04 | 0.98 | 0.11 | 9.09 | 166754.04 | 1920975.98 | |
| 1718.00 | 0.50 | 251.40 | 1717.94 | 8.82 | 0.18 | 0.05 | 8.76 | 166753.82 | 1920975.18 | |
| 1809.00 | 0.40 | 255.50 | 1808.94 | 8.61 | -0.50 | 0.12 | 8.46 | 166753.61 | 1920974.50 | |
| 1900.00 | 0.40 | 248.60 | 1899.93 | 8.41 | -1.10 | 0.05 | 8.19 | 166753.41 | 1920973.90 | |
| 1993.00 | 0.40 | 239.50 | 1992.93 | 8.13 | -1.68 | 0.07 | 7.83 | 166753.13 | 1920973.32 | |
| 2086.00 | 0.50 | 236.10 | 2085.93 | 7.74 | -2.30 | 0.11 | 7.36 | 166752.74 | 1920972.70 | |
| 2175.00 | 0.30 | 243.50 | 2174.93 | 7.42 | -2.83 | 0.23 | 6.97 | 166752.42 | 1920972.17 | |
| 2267.00 | 0.20 | 208.00 | 2266.93 | 7.17 | -3.12 | 0.20 | 6.68 | 166752.17 | 1920971.88 | |
| 2358.00 | 0.30 | 135.60 | 2357.92 | 6.86 | -3.03 | 0.34 | 6.39 | 166751.86 | 1920971.97 | |
| 2451.00 | 0.40 | 137.70 | 2450.92 | 6.45 | -2.64 | 0.11 | 6.03 | 166751.45 | 1920972.36 | |
| 2544.00 | 0.30 | 123.50 | 2543.92 | 6.07 | -2.22 | 0.14 | 5.71 | 166751.07 | 1920972.78 | |
| 2636.00 | 0.30 | 128.90 | 2635.92 | 5.79 | -1.83 | 0.03 | 5.49 | 166750.79 | 1920973.17 | |
| 2760.00 | 0.20 | 131.70 | 2759.92 | 5.44 | -1.42 | 0.08 | 5.20 | 166750.44 | 1920973.58 | |
| 2884.00 | 0.10 | 160.00 | 2883.92 | 5.19 | -1.22 | 0.10 | 4.98 | 166750.19 | 1920973.78 | |
| 3005.00 | 0.20 | 180.60 | 3004.92 | 4.88 | -1.19 | 0.09 | 4.68 | 166749.88 | 1920973.81 | |
| 3126.00 | 0.30 | 140.70 | 3125.92 | 4.43 | -0.99 | 0.16 | 4.25 | 166749.43 | 1920974.01 | |
| 3251.00 | 0.30 | 147.00 | 3250.91 | 3.90 | -0.60 | 0.03 | 3.78 | 166748.90 | 1920974.40 | |
| 3372.00 | 0.40 | 120.10 | 3371.91 | 3.42 | -0.06 | 0.16 | 3.38 | 166748.42 | 1920974.94 | |
| 3494.00 | 0.30 | 126.80 | 3493.91 | 3.02 | 0.56 | 0.09 | 3.07 | 166748.02 | 1920975.56 | |
| 3617.00 | 0.40 | 116.10 | 3616.91 | 2.64 | 1.20 | 0.10 | 2.77 | 166747.64 | 1920976.20 | |
| 3742.00 | 0.60 | 131.20 | 3741.90 | 2.01 | 2.09 | 0.19 | 2.28 | 166747.01 | 1920977.09 | |

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Ricke Baier #1-H
 Location: Barber County, Kansas

Date: 14-Dec-2012
 Surveys
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 Job# : 6855

| MD (feet) | Inclination (degrees) | Azimuth (degrees) | TVD RKB (feet) | N/-S (feet) | E/-W (feet) | DLS (deg/100') | VS @ 7.80° Az (feet) | Grid Y | Grid X | Comments |
|--------------|--------------------------|----------------------|-------------------|----------------|----------------|-------------------|-------------------------|-----------|------------|----------|
| 3863.00 | 0.90 | 136.30 | 3862.89 | 0.91 | 3.22 | 0.25 | 1.34 | 166745.91 | 1920978.22 | |
| 3987.00 | 0.80 | 145.10 | 3986.88 | -0.51 | 4.39 | 0.13 | 0.09 | 166744.49 | 1920979.39 | |
| 4110.00 | 0.80 | 136.70 | 4109.87 | -1.84 | 5.47 | 0.10 | -1.08 | 166743.16 | 1920980.47 | |
| 4231.00 | 0.80 | 155.60 | 4230.86 | -3.22 | 6.40 | 0.22 | -2.32 | 166741.78 | 1920981.40 | |
| 4292.00 | 0.70 | 167.40 | 4291.85 | -3.97 | 6.66 | 0.30 | -3.03 | 166741.03 | 1920981.66 | |
| 4324.00 | 0.40 | 169.30 | 4323.85 | -4.27 | 6.72 | 0.94 | -3.32 | 166740.73 | 1920981.72 | |
| 4353.00 | 1.60 | 12.90 | 4352.85 | -3.98 | 6.83 | 6.80 | -3.01 | 166741.02 | 1920981.83 | |
| 4384.00 | 4.90 | 5.50 | 4383.79 | -2.24 | 7.05 | 10.71 | -1.26 | 166742.76 | 1920982.05 | |
| 4415.00 | 8.80 | 2.90 | 4414.56 | 1.45 | 7.30 | 12.62 | 2.43 | 166746.45 | 1920982.30 | |
| 4446.00 | 11.70 | 0.80 | 4445.07 | 6.96 | 7.46 | 9.43 | 7.91 | 166751.96 | 1920982.46 | |
| 4475.00 | 14.00 | 0.80 | 4473.34 | 13.41 | 7.55 | 7.93 | 14.31 | 166758.41 | 1920982.55 | |
| 4505.00 | 16.40 | 2.90 | 4502.29 | 21.27 | 7.82 | 8.21 | 22.14 | 166766.27 | 1920982.82 | |
| 4535.00 | 18.60 | 4.60 | 4530.90 | 30.27 | 8.42 | 7.53 | 31.13 | 166775.27 | 1920983.42 | |
| 4566.00 | 20.70 | 6.40 | 4560.09 | 40.65 | 9.42 | 7.05 | 41.55 | 166785.65 | 1920984.42 | |
| 4597.00 | 22.90 | 6.90 | 4588.87 | 52.08 | 10.76 | 7.12 | 53.06 | 166797.08 | 1920985.76 | |
| 4626.00 | 24.50 | 8.00 | 4615.43 | 63.64 | 12.27 | 5.72 | 64.71 | 166808.64 | 1920987.27 | |
| 4657.00 | 26.50 | 9.70 | 4643.40 | 76.82 | 14.33 | 6.87 | 78.05 | 166821.82 | 1920989.33 | |
| 4688.00 | 29.20 | 10.10 | 4670.81 | 91.08 | 16.82 | 8.73 | 92.53 | 166836.08 | 1920991.82 | |
| 4720.00 | 31.60 | 9.60 | 4698.41 | 107.04 | 19.59 | 7.54 | 108.71 | 166852.04 | 1920994.59 | |
| 4749.00 | 33.90 | 8.70 | 4722.80 | 122.53 | 22.08 | 8.11 | 124.39 | 166867.53 | 1920997.08 | |
| 4779.00 | 36.00 | 8.20 | 4747.39 | 139.52 | 24.61 | 7.06 | 141.57 | 166884.52 | 1920999.61 | |
| 4808.00 | 37.80 | 7.80 | 4770.58 | 156.77 | 27.03 | 6.26 | 158.98 | 166901.77 | 1921002.03 | |
| 4839.00 | 40.10 | 7.80 | 4794.68 | 176.07 | 29.67 | 7.42 | 178.47 | 166921.07 | 1921004.67 | |
| 4870.00 | 42.60 | 8.30 | 4817.95 | 196.35 | 32.54 | 8.13 | 198.95 | 166941.35 | 1921007.54 | |
| 4902.00 | 44.90 | 8.50 | 4841.07 | 218.24 | 35.78 | 7.20 | 221.07 | 166963.24 | 1921010.78 | |
| 4933.00 | 47.20 | 8.00 | 4862.58 | 240.32 | 38.98 | 7.51 | 243.39 | 166985.32 | 1921013.98 | |
| 4964.00 | 49.10 | 7.50 | 4883.26 | 263.20 | 42.09 | 6.25 | 266.48 | 167008.20 | 1921017.09 | |
| 4993.00 | 50.20 | 8.30 | 4902.04 | 285.10 | 45.13 | 4.34 | 288.58 | 167030.10 | 1921020.13 | |
| 5025.00 | 51.50 | 8.00 | 4922.24 | 309.66 | 48.64 | 4.13 | 313.40 | 167054.66 | 1921023.64 | |
| 5054.00 | 54.50 | 8.70 | 4939.69 | 332.57 | 52.01 | 10.52 | 336.55 | 167077.57 | 1921027.01 | |

NAD27 Ks South gr elev=1884 RKB=1896

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Ricke Baier #1-H
 Location: Barber County, Kansas

Date: 14-Dec-2012
 Surveys
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 Job# : 6855

| MD (feet) | Inclination (degrees) | Azimuth (degrees) | TVD RKB (feet) | N/-S (feet) | E/-W (feet) | DLS (deg/100') | VS @ 7.80° Az (feet) | Grid Y | Grid X | Comments |
|--------------|--------------------------|----------------------|-------------------|----------------|----------------|-------------------|-------------------------|-----------|------------|----------|
| 5083.00 | 58.30 | 8.50 | 4955.74 | 356.45 | 55.62 | 13.12 | 360.70 | 167101.45 | 1921030.62 | |
| 5115.00 | 61.80 | 8.70 | 4971.71 | 383.86 | 59.77 | 10.95 | 388.42 | 167128.86 | 1921034.77 | |
| 5146.00 | 64.10 | 8.50 | 4985.81 | 411.16 | 63.89 | 7.44 | 416.03 | 167156.16 | 1921038.89 | |
| 5177.00 | 66.20 | 7.80 | 4998.83 | 439.00 | 67.88 | 7.08 | 444.15 | 167184.00 | 1921042.88 | |
| 5208.00 | 68.60 | 6.40 | 5010.75 | 467.40 | 71.42 | 8.79 | 472.77 | 167212.40 | 1921046.42 | |
| 5238.00 | 70.10 | 6.40 | 5021.33 | 495.30 | 74.54 | 5.00 | 500.83 | 167240.30 | 1921049.54 | |
| 5269.00 | 70.90 | 6.20 | 5031.67 | 524.34 | 77.75 | 2.65 | 530.04 | 167269.34 | 1921052.75 | |
| 5300.00 | 71.30 | 5.70 | 5041.72 | 553.51 | 80.79 | 2.00 | 559.35 | 167298.51 | 1921055.79 | |
| 5331.00 | 71.30 | 5.90 | 5051.66 | 582.72 | 83.76 | 0.61 | 588.70 | 167327.72 | 1921058.76 | |
| 5362.00 | 70.90 | 4.60 | 5061.70 | 611.93 | 86.44 | 4.17 | 618.00 | 167356.93 | 1921061.44 | |
| 5393.00 | 70.10 | 4.60 | 5072.04 | 641.06 | 88.79 | 2.58 | 647.18 | 167386.06 | 1921063.79 | |
| 5424.00 | 69.80 | 4.60 | 5082.67 | 670.08 | 91.12 | 0.97 | 676.25 | 167415.08 | 1921066.12 | |
| 5455.00 | 69.70 | 4.30 | 5093.40 | 699.08 | 93.38 | 0.96 | 705.29 | 167444.08 | 1921068.38 | |
| 5486.00 | 70.20 | 4.60 | 5104.03 | 728.11 | 95.64 | 1.85 | 734.36 | 167473.11 | 1921070.64 | |
| 5516.00 | 71.60 | 4.30 | 5113.85 | 756.38 | 97.84 | 4.76 | 762.66 | 167501.38 | 1921072.84 | |
| 5547.00 | 73.90 | 4.30 | 5123.04 | 785.90 | 100.06 | 7.42 | 792.20 | 167530.90 | 1921075.06 | |
| 5578.00 | 77.10 | 5.70 | 5130.80 | 815.79 | 102.67 | 11.21 | 822.18 | 167560.79 | 1921077.67 | |
| 5609.00 | 80.00 | 5.30 | 5136.95 | 846.03 | 105.59 | 9.44 | 852.53 | 167591.03 | 1921080.59 | |
| 5640.00 | 81.70 | 6.60 | 5141.88 | 876.47 | 108.76 | 6.87 | 883.12 | 167621.47 | 1921083.76 | |
| 5671.00 | 83.70 | 7.50 | 5145.82 | 906.98 | 112.53 | 7.07 | 913.86 | 167651.98 | 1921087.53 | |
| 5701.00 | 85.10 | 7.80 | 5148.75 | 936.57 | 116.51 | 4.77 | 943.72 | 167681.57 | 1921091.51 | |
| 5712.00 | 85.80 | 6.90 | 5149.62 | 947.45 | 117.91 | 10.34 | 954.68 | 167692.45 | 1921092.91 | |
| 5744.00 | 87.30 | 7.30 | 5151.55 | 979.14 | 121.86 | 4.85 | 986.62 | 167724.14 | 1921096.86 | |
| 5773.00 | 88.10 | 8.70 | 5152.71 | 1007.84 | 125.89 | 5.56 | 1015.60 | 167752.84 | 1921100.89 | |
| 5804.00 | 89.50 | 9.00 | 5153.36 | 1038.46 | 130.66 | 4.62 | 1046.59 | 167783.46 | 1921105.66 | |
| 5836.00 | 90.00 | 9.40 | 5153.50 | 1070.05 | 135.78 | 2.00 | 1078.58 | 167815.05 | 1921110.78 | |
| 5867.00 | 90.30 | 8.00 | 5153.42 | 1100.69 | 140.46 | 4.62 | 1109.57 | 167845.69 | 1921115.46 | |
| 5898.00 | 90.60 | 8.30 | 5153.18 | 1131.38 | 144.86 | 1.37 | 1140.57 | 167876.38 | 1921119.86 | |
| 5929.00 | 90.80 | 7.80 | 5152.80 | 1162.07 | 149.20 | 1.74 | 1171.57 | 167907.07 | 1921124.20 | |
| 5961.00 | 91.00 | 7.10 | 5152.29 | 1193.80 | 153.35 | 2.27 | 1203.56 | 167938.80 | 1921128.35 | |

NAD27 Ks South gr elev=1884 RKB=1896

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Ricke Baier #1-H
 Location: Barber County, Kansas

Date: 14-Dec-2012
 Surveys
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 Job# : 6855

| MD (feet) | Inclination (degrees) | Azimuth (degrees) | TVD RKB (feet) | N/-S (feet) | E/-W (feet) | DLS (deg/100') | VS @ 7.80° Az (feet) | Grid Y | Grid X | Comments |
|--------------|--------------------------|----------------------|-------------------|----------------|----------------|-------------------|-------------------------|-----------|------------|----------|
| 6023.00 | 90.70 | 7.60 | 5151.38 | 1255.28 | 161.28 | 0.94 | 1265.55 | 168000.28 | 1921136.28 | |
| 6087.00 | 90.40 | 7.30 | 5150.76 | 1318.74 | 169.58 | 0.66 | 1329.55 | 168063.74 | 1921144.58 | |
| 6147.00 | 89.60 | 7.10 | 5150.76 | 1378.26 | 177.10 | 1.37 | 1389.55 | 168123.26 | 1921152.10 | |
| 6210.00 | 90.20 | 6.00 | 5150.87 | 1440.85 | 184.28 | 1.99 | 1452.53 | 168185.85 | 1921159.28 | |
| 6270.00 | 91.30 | 5.30 | 5150.08 | 1500.55 | 190.19 | 2.17 | 1512.48 | 168245.55 | 1921165.19 | |
| 6331.00 | 90.60 | 5.30 | 5149.07 | 1561.28 | 195.82 | 1.15 | 1573.41 | 168306.28 | 1921170.82 | |
| 6394.00 | 90.10 | 6.00 | 5148.69 | 1623.97 | 202.03 | 1.37 | 1636.37 | 168368.97 | 1921177.03 | |
| 6456.00 | 90.60 | 8.20 | 5148.31 | 1685.49 | 209.69 | 3.64 | 1698.36 | 168430.49 | 1921184.69 | |
| 6519.00 | 90.60 | 8.50 | 5147.65 | 1747.82 | 218.84 | 0.48 | 1761.35 | 168492.82 | 1921193.84 | |
| 6581.00 | 90.90 | 9.20 | 5146.84 | 1809.08 | 228.37 | 1.23 | 1823.34 | 168554.08 | 1921203.37 | |
| 6643.00 | 90.10 | 11.10 | 5146.30 | 1870.10 | 239.30 | 3.32 | 1885.28 | 168615.10 | 1921214.30 | |
| 6706.00 | 89.80 | 12.00 | 5146.35 | 1931.83 | 251.91 | 1.51 | 1948.14 | 168676.83 | 1921226.91 | |
| 6768.00 | 88.90 | 12.20 | 5147.06 | 1992.44 | 264.91 | 1.49 | 2009.96 | 168737.44 | 1921239.91 | |
| 6829.00 | 89.60 | 12.40 | 5147.85 | 2052.04 | 277.90 | 1.19 | 2070.77 | 168797.04 | 1921252.90 | |
| 6891.00 | 88.60 | 11.80 | 5148.83 | 2112.65 | 290.90 | 1.88 | 2132.59 | 168857.65 | 1921265.90 | |
| 6953.00 | 89.00 | 12.60 | 5150.13 | 2173.24 | 304.00 | 1.44 | 2194.39 | 168918.24 | 1921279.00 | |
| 7016.00 | 89.30 | 11.30 | 5151.06 | 2234.87 | 317.04 | 2.12 | 2257.22 | 168979.87 | 1921292.04 | |
| 7077.00 | 89.90 | 10.10 | 5151.49 | 2294.80 | 328.36 | 2.20 | 2318.13 | 169039.80 | 1921303.36 | |
| 7136.00 | 90.30 | 9.90 | 5151.38 | 2352.91 | 338.61 | 0.76 | 2377.09 | 169097.91 | 1921313.61 | |
| 7195.00 | 89.40 | 9.20 | 5151.54 | 2411.09 | 348.40 | 1.93 | 2436.06 | 169156.09 | 1921323.40 | |
| 7256.00 | 88.00 | 9.00 | 5152.92 | 2471.30 | 358.04 | 2.32 | 2497.03 | 169216.30 | 1921333.04 | |
| 7318.00 | 87.80 | 9.90 | 5155.19 | 2532.42 | 368.22 | 1.49 | 2558.96 | 169277.42 | 1921343.22 | |
| 7379.00 | 88.90 | 7.50 | 5156.95 | 2592.69 | 377.44 | 4.33 | 2619.92 | 169337.69 | 1921352.44 | |
| 7439.00 | 89.40 | 6.90 | 5157.84 | 2652.21 | 384.96 | 1.30 | 2679.91 | 169397.21 | 1921359.96 | |
| 7502.00 | 89.70 | 7.80 | 5158.34 | 2714.69 | 393.02 | 1.51 | 2742.91 | 169459.69 | 1921368.02 | |
| 7564.00 | 90.20 | 7.30 | 5158.39 | 2776.15 | 401.16 | 1.14 | 2804.91 | 169521.15 | 1921376.16 | |
| 7624.00 | 90.80 | 7.50 | 5157.87 | 2835.65 | 408.89 | 1.05 | 2864.90 | 169580.65 | 1921383.89 | |
| 7687.00 | 90.50 | 9.00 | 5157.15 | 2897.99 | 417.93 | 2.43 | 2927.89 | 169642.99 | 1921392.93 | |
| 7749.00 | 89.80 | 8.70 | 5156.99 | 2959.25 | 427.47 | 1.23 | 2989.88 | 169704.25 | 1921402.47 | |
| 7812.00 | 90.40 | 8.70 | 5156.88 | 3021.52 | 437.00 | 0.95 | 3052.88 | 169766.52 | 1921412.00 | |

NAD27 Ks South gr elev=1884 RKB=1896

Calmena Energy Services

Company: Woolsey Operating Company, LLC
 Well: Ricke Baier #1-H
 Location: Barber County, Kansas

Date: 14-Dec-2012
 Surveys
 Page 5
 Job# : 6855

| MD (feet) | Inclination (degrees) | Azimuth (degrees) | TVD RKB (feet) | N/-S (feet) | E/-W (feet) | DLS (deg/100') | VS @ 7.80° Az (feet) | Grid Y | Grid X | Comments |
|--------------|--------------------------|----------------------|-------------------|----------------|----------------|-------------------|-------------------------|-----------|------------|----------|
| 7873.00 | 89.60 | 8.30 | 5156.88 | 3081.85 | 446.01 | 1.47 | 3113.87 | 169826.85 | 1921421.01 | |
| 7935.00 | 89.70 | 9.40 | 5157.26 | 3143.11 | 455.55 | 1.78 | 3175.86 | 169888.11 | 1921430.55 | |
| 7995.00 | 89.30 | 8.30 | 5157.78 | 3202.40 | 464.78 | 1.95 | 3235.84 | 169947.40 | 1921439.78 | |
| 8057.00 | 89.60 | 8.50 | 5158.38 | 3263.73 | 473.84 | 0.58 | 3297.84 | 170008.73 | 1921448.84 | |
| 8121.00 | 90.40 | 8.50 | 5158.38 | 3327.02 | 483.30 | 1.25 | 3361.83 | 170072.02 | 1921458.30 | |
| 8182.00 | 91.00 | 8.20 | 5157.63 | 3387.37 | 492.16 | 1.10 | 3422.82 | 170132.37 | 1921467.16 | |
| 8212.00 | 91.60 | 8.30 | 5156.95 | 3417.05 | 496.46 | 2.03 | 3452.82 | 170162.05 | 1921471.46 | |
| 8272.00 | 91.60 | 7.80 | 5155.28 | 3476.44 | 504.86 | 0.83 | 3512.79 | 170221.44 | 1921479.86 | |
| 8333.00 | 91.20 | 7.80 | 5153.79 | 3536.86 | 513.13 | 0.66 | 3573.77 | 170281.86 | 1921488.13 | |
| 8396.00 | 91.10 | 8.90 | 5152.52 | 3599.18 | 522.28 | 1.75 | 3636.76 | 170344.18 | 1921497.28 | |
| 8457.00 | 90.00 | 8.70 | 5151.94 | 3659.45 | 531.61 | 1.83 | 3697.74 | 170404.45 | 1921506.61 | |
| 8519.00 | 89.70 | 8.50 | 5152.10 | 3720.76 | 540.88 | 0.58 | 3759.74 | 170465.76 | 1921515.88 | |
| 8582.00 | 88.90 | 8.70 | 5152.87 | 3783.04 | 550.30 | 1.31 | 3822.73 | 170528.04 | 1921525.30 | |
| 8645.00 | 86.50 | 9.20 | 5155.40 | 3845.22 | 560.10 | 3.89 | 3885.66 | 170590.22 | 1921535.10 | |
| 8708.00 | 86.60 | 8.90 | 5159.19 | 3907.32 | 569.99 | 0.50 | 3948.53 | 170652.32 | 1921544.99 | |
| 8768.00 | 87.70 | 7.30 | 5162.17 | 3966.65 | 578.43 | 3.23 | 4008.45 | 170711.65 | 1921553.43 | |
| 8827.00 | 89.20 | 6.00 | 5163.77 | 4025.23 | 585.26 | 3.36 | 4067.41 | 170770.23 | 1921560.26 | |
| 8888.00 | 90.50 | 6.40 | 5163.93 | 4085.87 | 591.85 | 2.23 | 4128.39 | 170830.87 | 1921566.85 | |
| 8948.00 | 90.80 | 5.00 | 5163.25 | 4145.57 | 597.81 | 2.39 | 4188.34 | 170890.57 | 1921572.81 | |
| 9009.00 | 91.60 | 5.70 | 5161.97 | 4206.29 | 603.49 | 1.74 | 4249.27 | 170951.29 | 1921578.49 | |
| 9071.00 | 91.80 | 5.00 | 5160.13 | 4267.99 | 609.27 | 1.17 | 4311.19 | 171012.99 | 1921584.27 | |
| 9132.00 | 92.60 | 4.10 | 5157.79 | 4328.75 | 614.11 | 1.97 | 4372.04 | 171073.75 | 1921589.11 | |
| 9195.00 | 92.90 | 4.30 | 5154.76 | 4391.51 | 618.71 | 0.57 | 4434.85 | 171136.51 | 1921593.71 | |
| 9255.00 | 90.50 | 4.10 | 5152.98 | 4451.32 | 623.11 | 4.01 | 4494.70 | 171196.32 | 1921598.11 | |
| 9301.00 | 90.50 | 4.10 | 5152.58 | 4497.20 | 626.40 | 0.00 | 4540.60 | 171242.20 | 1921601.40 | |

NAD27 Ks South gr elev=1884 RKB=1896



Daily Activity Report

Calmena Energy Services
v4.2.2674

Day 21 - 2012/12/13

FILE #: 0012187
JOB TYPE: Horizontal
RIG & NO: DanD 11

WELL NAME: Ricke Baier #1-H
COMPANY: Woolsey Operating Company, LLC
SURFACE LOCATION:

SERVICE CO.: Calmena Energy Services
SURVEY TYPE: Positive Pulse MWD
FIELD / LOCATION: / Kansas / USA

Company Man: Mike Tharp
DIR Supervisor: Heath Marshall, Mark Sanders
MWD Supervisor: Shane Lewis, Kevin Moses

GROUND ELEV: 1879 ft **START DEPTH:** 8994.0 ft **PROGRESS:** 307.0 ft **DAILY COST:** USD\$9500.00
KB ELEV: 1886 ft **END DEPTH:** 9301.0 ft **AVG. ROP.:** 31.5 ft/hr **PREVIOUS COST:** USD\$205300.00
TOTAL COST: USD\$214800.00

WORK STATUS: Operating (All units are imperial.)

| TIME | DAILY ACTIVITY | HRS | DPTH | BHA | TIME | DAILY ACTIVITY | HRS | DPTH | BHA |
|-------------|-------------------------------|------|------|-----|-------------|---------------------------|------|------|-----|
| 00:00-00:30 | Orienting With Motor - 8'@30L | 0.50 | 9004 | 7 | 07:30-08:30 | Rotating With Motor | 1.00 | 9241 | 7 |
| 00:30-02:15 | Rotating With Motor | 1.75 | 9055 | 7 | 08:30-08:45 | Circ & Accumulate Surveys | 0.25 | 9241 | 7 |
| 02:15-02:30 | Circ & Accumulate Surveys | 0.25 | 9055 | 7 | 08:45-09:00 | Orienting With Motor | 0.25 | 9248 | 7 |
| 02:30-03:15 | Rotating With Motor | 0.75 | 9086 | 7 | 09:00-10:45 | Rotating With Motor | 1.75 | 9301 | 7 |
| 03:15-03:45 | Orienting With Motor - 5'@20L | 0.50 | 9091 | 7 | 10:45-11:15 | Rig Service | 0.50 | 9301 | 7 |
| 03:45-04:15 | Rotating With Motor | 0.50 | 9117 | 7 | 11:15-11:30 | Circ & Accumulate Surveys | 0.25 | 9301 | 7 |
| 04:15-04:30 | Circ & Accumulate Surveys | 0.25 | 9117 | 7 | 11:30-13:00 | Circulating | 1.50 | 9301 | 7 |
| 04:30-06:00 | Rotating With Motor | 1.50 | 9178 | 7 | 13:00-16:30 | Wiper Trip - 62 Stands | 3.50 | 9301 | 7 |
| 06:00-06:15 | Circ & Accumulate Surveys | 0.25 | 9178 | 7 | 16:30-18:30 | Circulating | 2.00 | 9301 | 7 |
| 06:15-07:00 | Rotating With Motor | 0.75 | 9210 | 7 | 18:30-24:00 | POOH To Run Casing | 5.50 | 9301 | 7 |
| 07:00-07:30 | Orienting With Motor | 0.50 | 9215 | 7 | | | 0.00 | | |

| TIME SUMMARY (hrs): | | | DRILLING PARAMETERS: | | |
|--------------------------|----------------------------|---------------------------|------------------------------------|----------------------------------|--|
| MOTOR DRILL: 9.75 | ORIENTING HRS: 1.75 | ROTARY DRILL: 0.00 | ROTARY TORQUE: | STRING WEIGHT 84000 lbs | |
| TIME DRILL: 0.00 | ROTATING HRS: 8.00 | MOTOR HRS: 14.50 | WOB SLIDING (HI): 10000 lbf | WOB ROTATE (HI): 8000 lbf | |
| MOTOR REAM: 0.00 | | TRIP: 9.00 | WOB SLIDING (LO): 4000 lbf | WOB ROTATE (LO): 4000 lbf | |
| CIRC: 4.75 | ROTARY DRILL: 0.00 | OTHER: 0.50 | RPM (ROTARY): 65 rpm | DRAG UP: 22000 lbf | |
| MOTOR HRS: 14.50 | DRILL HRS: 9.75 | TOTAL HRS: 24.00 | RPM (MOTOR): 122 rpm | DRAG DN: 20000 lbf | |

BHA / MOTOR / BIT INFORMATION:

| | | | |
|---|----------------------------|--------------------------------|---|
| BHA: 7 | HOLE SIZE: 6.125 in | SECTION TYPE: Lateral 1 | SURVEY TYPE: Positive Pulse MWD |
| MANFCT.: Calmena | STABILIZER: No | SERIAL#: 475-012 | MODEL: LOBE CFG.:7/8 |
| SETTING: 1.72 ° | KICKPAD: No | SIZE: 4.75 | MTR HRS THIS DAY: 14.5 MTR HRS TO DATE: 26.75 |
| MANFCT: Reed | BIT TYPE: PDC Bit | TYPE: MSH516D | NOZZLES: 16, 16, 16, 32: 1.374 in² TFA |
| IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / TD | | | |

PUMP PARAMETERS

| | | |
|------------------------------|---------------------------------------|--|
| PRESSURE ON BTM: 2230 | PRESSURE OFF BTM: 2100 | TOTAL FLOW RATE: 235.50 gal/min |
| PUMP 1: TYPE: | EFF.: 100.0% SPM: 75.00 | LINER: 6.00 in STROKE VOL.: 3.1400 gal/stk |
| PUMP 2: TYPE: | EFF.: 100.0% SPM: 0.00 | LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk |
| PUMP 3: TYPE: | EFF.: 100.0% SPM: 0.00 | LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk |

MUD RECORD

| | | | | | |
|--------------------------------|----------------------------------|-------------------------------|--------------------|-------------------------|------------------------------|
| MUD TYPE: Brine or Salt | VISC: 30 sec/qt | WTR LOSS: 0 cc/30min | PV: 0 cP | YP: 0 lb/100 ft² | pH: 7 |
| DENSITY: 9.4 lb/gal | GEL 0/10: 0.00 lb/100 ft² | SAND: 0 | SOLIDS: 0.8 | OIL: 0 | TEMP: 0 °F |
| LIQUID BASE: Water | | LIQUID RATE: 0 gal/min | GAS TYPE: | | GAS RATE: 0 cu ft/min |

COMMENTS:
TD well at 9301' MD

CUSTOMER SIGNATURE: _____

Day 22 - 2012/12/14

FILE #: 0012187
JOB TYPE: Horizontal
RIG & NO: DanD 11

WELL NAME: Ricke Baier #1-H
COMPANY: Woolsey Operating Company, LLC
SURFACE LOCATION:

SERVICE CO.: Calmena Energy Services
SURVEY TYPE: Positive Pulse MWD
FIELD / LOCATION: / Kansas / USA

Company Man: Mike Tharp
DIR Supervisor: Heath Marshall, Mark Sanders
MWD Supervisor: Shane Lewis, Kevin Moses

GROUND ELEV: 1879 ft **START DEPTH:** 9301.0 ft **PROGRESS:** 0.0 ft **DAILY COST:** USD\$9500.00
KB ELEV: 1886 ft **END DEPTH:** 9301.0 ft **AVG. ROP.:** 0.0 ft/hr **PREVIOUS COST:** USD\$214800.00
TOTAL COST: USD\$224300.00

WORK STATUS: Operating (All units are imperial.)

| TIME | DAILY ACTIVITY | HRS | DPTH | BHA | TIME | DAILY ACTIVITY | HRS | DPTH | BHA |
|-------------|----------------------------|------|------|-----|-------------|----------------|-------|------|-----|
| 00:00-01:00 | Lay Down Directional Tools | 1.00 | 9301 | 7 | 01:00-24:00 | Released | 23.00 | 9301 | 7 |

| TIME SUMMARY (hrs): | | | | DRILLING PARAMETERS: | | | | | |
|---------------------|------|----------------|------|----------------------|-------|-------------------|-------|------------------|-------|
| MOTOR DRILL: | 0.00 | ORIENTING HRS: | 0.00 | ROTARY DRILL: | 0.00 | ROTARY TORQUE: | | STRING WEIGHT: | 0 lbs |
| TIME DRILL: | 0.00 | ROTATING HRS: | 0.00 | MOTOR HRS: | 0.00 | WOB SLIDING (HI): | 0 lbf | WOB ROTATE (HI): | 0 lbf |
| MOTOR REAM: | 0.00 | TRIP: | 0.00 | WOB SLIDING (LO): | 0 lbf | WOB ROTATE (LO): | 0 lbf | DRAG UP: | 0 lbf |
| CIRC: | 0.00 | ROTARY DRILL: | 0.00 | OTHER: | 24.00 | RPM (ROTARY): | | DRAG DN: | 0 lbf |
| MOTOR HRS: | 0.00 | DRILL HRS: | 0.00 | TOTAL HRS: | 24.00 | RPM (MOTOR): | | | |

BHA / MOTOR / BIT INFORMATION:

BHA: 7 **HOLE SIZE:** 6.125 in **SECTION TYPE:** Lateral 1 **SURVEY TYPE:** Positive Pulse MWD
MANFCT.: Calmena **STABILIZER:** No **SERIAL#:** 475-012 **MODEL:** **LOBE CFG.:** 7/8
SETTING: 1.72 ° **KICKPAD:** No **SIZE:** 4.75 **MTR HRS THIS DAY:** 0 **MTR HRS TO DATE:** 26.75
MANFCT: Reed **BIT TYPE:** PDC Bit **TYPE:** MSH516D **NOZZLES:** 16, 16, 16, 32: 1.374 in² TFA
IADC BIT GRADE: ? / ? / ? / ? / ? / ? / ? / ? / TD

PUMP PARAMETERS

PRESSURE ON BTM: 0 **PRESSURE OFF BTM:** 0 **TOTAL FLOW RATE:** 0.00 gal/min
PUMP 1: TYPE: EFF.: 100.0% SPM: 0.00 LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 2: TYPE: EFF.: 100.0% SPM: 0.00 LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk
PUMP 3: TYPE: EFF.: 100.0% SPM: 0.00 LINER: 0.00 in STROKE VOL.: 0.0000 gal/stk

MUD RECORD

MUD TYPE: **VISC:** 0 sec/qt **WTR LOSS:** 0 cc/30min **PV:** 0 cP **YP:** 0 lb/100 ft² **pH:** 0
DENSITY: 0 lb/gal **GEL 0/10:** 0.00 lb/100 ft² **SAND:** 0 **SOLIDS:** 0 **OIL:** 0 **TEMP:** 0 °F
LIQUID BASE: **LIQUID RATE:** 0 gal/min **GAS TYPE:** **GAS RATE:** 0 cu ft/min

COMMENTS:

CUSTOMER SIGNATURE:



Slide Sheet Report

BHA 7 - 2012/12/12 TO 2012/12/14

FILE #: 0012187
JOB TYPE: Horizontal
RIG & NO: DanD 11

WELL NAME: Ricke Baier #1-H
COMPANY: Woolsey Operating Company, LLC
SURFACE LOCATION:

SERVICE CO.: Calmena Energy Services
SURVEY TYPE: Positive Pulse MWD
FIELD / LOCATION: / Kansas / USA

Company Man: Mike Tharp
DIR Supervisor: Heath Marshall, Mark Sanders
MWD Supervisor: Shane Lewis, Kevin Moses

| | | | | |
|------------------------------|--|---------------------------|--|-----------------------------|
| BHA NO: 7 | DATES RUN: 2012/12/12 TO 2012/12/14 | SECTION: Lateral 1 | TOOLFACE OFFSET: | SURVEY OFFSET: 46 ft |
| MOTOR SETTING: 1.72 ° | KICKPAD: No | STABILIZER: No | MODEL: | SERIAL NO: 475-012 |
| | | | BHA SURVEY TYPE: Positive Pulse MWD | |

(Distances are shown in feet.)

| BIT DEPTH DRILLED | SURVEY | | | | ----- ORIENTING ----- | | | ----- ROTATING ----- | | | SLIDE SEEN | BUR /ft | BUR /100ft | COMMENTS | |
|----------------------|--------|---------|-------|------|-----------------------|---------|---------|----------------------|---------|---------|---------------|------------|---------------|----------|----------------------------|
| | DEPTH | INC | AZM | TF | FROM | TO | FEET | FROM | TO | FEET | | | | | |
| 8691.00 | 63.00 | 8645.00 | 86.50 | 9.20 | 48L | 8691.00 | 8698.00 | 7.00 | 8698.00 | 8754.00 | 56.00 | 0.00 | 0.00 | 0.00 | |
| 8754.00 | 60.00 | 8708.00 | 86.60 | 8.90 | 38L | 8754.00 | 8764.00 | 10.00 | 8764.00 | 8814.00 | 50.00 | 7.00 | 0.01 | 0.16 | Slide f/ 8785'-8791' @ 55L |
| 8814.00 | 59.00 | 8768.00 | 87.70 | 7.30 | 45L | 8814.00 | 8824.00 | 10.00 | 8824.00 | 8873.00 | 49.00 | 10.00 | 0.11 | 1.83 | SL) F/8843' to 8853' @30L |
| 8873.00 | 61.00 | 8827.00 | 89.20 | 6.00 | 30L | 8873.00 | 8883.00 | 10.00 | 8883.00 | 8934.00 | 51.00 | 10.00 | 0.15 | 2.54 | |
| 8934.00 | 60.00 | 8888.00 | 90.50 | 6.40 | | 8934.00 | 8934.00 | 0.00 | 8934.00 | 8994.00 | 60.00 | 10.00 | 0.13 | 2.13 | |
| 8994.00 | 61.00 | 8948.00 | 90.80 | 5.00 | 30L | 8994.00 | 9002.00 | 8.00 | 9002.00 | 9055.00 | 53.00 | 0.00 | 0.00 | 0.50 | |
| 9055.00 | 62.00 | 9009.00 | 91.60 | 5.70 | | 9055.00 | 9055.00 | 0.00 | 9055.00 | 9117.00 | 62.00 | 8.00 | 0.10 | 1.31 | S)F/9086' to 9091' |
| 9117.00 | 61.00 | 9071.00 | 91.80 | 5.00 | | 9117.00 | 9117.00 | 0.00 | 9117.00 | 9178.00 | 61.00 | 0.00 | 0.00 | 0.32 | |
| 9178.00 | 63.00 | 9132.00 | 92.60 | 4.10 | | 9178.00 | 9178.00 | 0.00 | 9178.00 | 9241.00 | 63.00 | 0.00 | 0.00 | 1.31 | |
| 9241.00 | 30.00 | 9195.00 | 92.90 | 4.30 | 150L | 9241.00 | 9248.00 | 7.00 | 9248.00 | 9271.00 | 23.00 | 0.00 | 0.00 | 0.48 | |
| 9271.00 | 30.00 | 9225.00 | 90.50 | 4.10 | | 9271.00 | 9271.00 | 0.00 | 9271.00 | 9301.00 | 30.00 | 0.00 | 0.00 | -8.00 | |
| 9301.00 | 0.00 | 9255.00 | 0.00 | 0.00 | | 9301.00 | 9301.00 | 0.00 | 9301.00 | 9301.00 | 0.00 | 7.00 | -12.93 | -301.67 | |

| | | |
|---------------------|----------|-----------|
| Totals: | 52.00 ft | 558.00 ft |
| Percentages: | 8.5% | 91.5% |
| Time: | 4.75 hrs | 14.75 hrs |
| Percentages: | 24.4% | 75.6% |