



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1224310  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

|                                   |                 |   |
|-----------------------------------|-----------------|---|
| Spud Date or<br>Recompletion Date | Date Reached TD | Completion Date or<br>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

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx)      (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical 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

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1224310

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

|  |   |
|--|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(Attach Additional Sheets)</i><br><br>Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>List All E. Logs Run: _____ | <input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample<br><br>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 |
| <input type="checkbox"/> Perforate<br><input type="checkbox"/> Protect Casing<br><input type="checkbox"/> Plug Back TD<br><input type="checkbox"/> Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><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 |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
|                                   |           |         |             |               |         |

|  |   |   |
|--|---|---|
| <b>DISPOSITION OF GAS:</b><br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | <b>METHOD OF COMPLETION:</b><br><input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled<br><i>(Submit ACO-5)</i><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|---|---|

|           |                           |
|-----------|---------------------------|
| Form      | ACO1 - Well Completion    |
| Operator  | Murfin Drilling Co., Inc. |
| Well Name | Pound 1-3                 |
| Doc ID    | 1224310                   |

All Electric Logs Run

|            |
|------------|
|            |
| CBL        |
| RESITIVITY |
| MICRO      |
| PORO       |







|                                   |                    |                            |
|-----------------------------------|--------------------|----------------------------|
| PAGE<br>1 of 1                    | CUST NO<br>1002852 | INVOICE DATE<br>06/13/2014 |
| INVOICE NUMBER<br>1718 - 91516114 |                    |                            |

Pratt (620) 672-1201  
 B MURFIN DRILLING  
 I PO Box: 288  
 L RUSSELL  
 L KS US 67665  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Pound 1-3  
 O LOCATION 1-34  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

| JOB #    | EQUIPMENT # | PURCHASE ORDER NO. | TERMS         | DUE DATE   |
|----------|-------------|--------------------|---------------|------------|
| 40732694 | 27463       |                    | Net - 30 days | 07/13/2014 |

|  | QTY      | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|----------|--------|------------|----------------|
| <b>For Service Dates: 06/07/2014 to 06/07/2014</b> |          |        |            |                |
| 0040732694   |          |        |            |                |
| 171810665A Cement-New Well Casing/Pi 06/07/2014    |          |        |            |                |
| Cement 9 5/8 Surface                               |          |        |            |                |
| A-Con Blend Common                                 | 235.00   | EA     | 13.50      | 3,172.50 T     |
| Common Cement                                      | 220.00   | EA     | 12.00      | 2,640.00 T     |
| Celloflake   | 114.00   | EA     | 2.78       | 316.35 T       |
| Calcium Chloride                                   | 1,077.00 | EA     | 0.79       | 848.14 T       |
| "Top Rubber Cmt Plug, 9 5/8""                      | 1.00     | EA     | 195.00     | 195.00         |
| "Baffle Plate Alum., 9 5/8"" (Blue)"               | 1.00     | EA     | 161.25     | 161.25         |
| Centralizer 9 5/8 x 12 1/4                         | 3.00     | EA     | 120.00     | 360.00         |
| Sugar  | 50.00    | EA     | 3.75       | 187.50 T       |
| "Unit Mileage Chg (PU, cars one way)"              | 35.00    | MI     | 3.19       | 111.56         |
| Heavy Equipment Mileage                            | 105.00   | MI     | 5.25       | 551.25         |
| "Proppant & Bulk Del. Chgs., per ton mil           | 749.00   | EA     | 1.65       | 1,235.85       |
| Depth Charge; 501'-1000'                           | 1.00     | EA     | 900.00     | 900.00         |
| Blending & Mixing Service Charge                   | 455.00   | BAG    | 1.05       | 477.75         |
| Plug Container Util. Chg.                          | 1.00     | EA     | 187.50     | 187.50         |
| "Service Supervisor, first 8 hrs on loc.           | 1.00     | EA     | 131.25     | 131.25         |

*Handwritten notes:*  
 ID 203  
 3. 6251.0001  
 11,988.16  
 Cement S.C.S.  
 # 1-3  
 06/13/14

|   |   |                                   |                                  |
|---|---|-----------------------------------|----------------------------------|
| PLEASE REMIT TO:<br>BASIC ENERGY SERVICES, LP<br>PO BOX 841903<br>DALLAS, TX 75284-1903 | SEND OTHER CORRESPONDENCE TO:<br>BASIC ENERGY SERVICES, LP<br>801 CHERRY ST, STE 2100<br>FORT WORTH, TX 76102 | SUB TOTAL<br>TAX<br>INVOICE TOTAL | 11,475.90<br>512.26<br>11,988.16 |
|---|---|-----------------------------------|----------------------------------|

*Handwritten signature:* O.K.



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 10665 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

|   |                            |  |                                   |   |                              |                              |                     |    |       |
|---|----------------------------|--|-----------------------------------|---|------------------------------|------------------------------|---------------------|----|-------|
| DATE OF JOB: <b>6-7-2014</b>              | DISTRICT: <b>Pratt, KS</b> | NEW WELL <input checked="" type="checkbox"/> | OLD WELL <input type="checkbox"/> | PROD <input type="checkbox"/>                       | INJ <input type="checkbox"/> | WDW <input type="checkbox"/> | CUSTOMER ORDER NO.: |    |       |
| CUSTOMER: <b>Murkin Drilling Co. Inc.</b> | LEASE: <b>Round</b>        |  | WELL NO.: <b>1-3</b>              |   |                              |                              |                     |    |       |
| ADDRESS:                                  |                            | COUNTY: <b>Stagflora</b>                     |                                   | STATE: <b>KS</b>                                    |                              |                              |                     |    |       |
| CITY:                                     |                            | STATE:                                       |                                   | SERVICE CREW: <b>Darin, Mike, Scott, Shon, D...</b> |                              |                              |                     |    |       |
| AUTHORIZED BY:                            |                            | JOB TYPE: <b>CNU/ SURFACE</b>                |                                   |   |                              |                              |                     |    |       |
| EQUIPMENT#                                | HRS                        | EQUIPMENT#                                   | HRS                               | EQUIPMENT#  | HRS                          | TRUCK CALLED                 | DATE                | AM | TIME  |
| 27283                                     | 1                          | 73768  | 1                                 |   |                              |                              | 6-6                 | AM | 10:00 |
| 37586                                     | 1                          |  |                                   |   |                              | ARRIVED AT JOB               | 6-7                 | AM | 12:30 |
| 27463                                     | 1                          |  |                                   |   |                              | START OPERATION              | 6-7                 | AM | 6:00  |
| 19960                                     | 1                          |  |                                   |   |                              | FINISH OPERATION             | 6-7                 | AM | 7:00  |
| 21010                                     | 1                          |  |                                   |   |                              | RELEASED                     | 6-7                 | AM | 8:00  |
| 19955                                     | 1                          |  |                                   |   |                              | MILES FROM STATION TO WELL   |                     |    | 40    |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Juan [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED  | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|--|------|----------|------------|-----------|
| CP101               | A-Con Blend Common                     | SK   | 235      |            | 4,230 00  |
| CP100C              | Common Cement                          | SK   | 220      |            | 3,520 00  |
| CC102               | Cellofisk                              | Lb   | 114      |            | 421 80    |
| CC109               | Calcium Chloride                       | Lb   | 1077     |            | 1,130 85  |
| CF106               | Top Rubber Cement Plus, 9 5/8          | EG   | 1        |            | 260 00    |
| CF754               | Baffle Pipe Aluminum, 9 5/8 (Blue)     | EG   | 1        |            | 215 00    |
| CF1781              | Centrifizer 9 5/8 x 12 1/4             | EG   | 3        |            | 480 00    |
| CC131               | SUSSR                                  | Lb   | 50       |            | 250 00    |
| E100                | Unit mileage charge - pickup           | mi   | 35       |            | 148 75    |
| E101                | Heavy Equipment mileage                | mi   | 105      |            | 735 00    |
| E113                | Bulk Delivery                          | Ton  | 749      |            | 1,647 80  |
| CE201               | Deprn Charge 501 - 1000'               | hrs  | 1        |            | 1,200 00  |
| CE240               | Blends & Mixing Service Charge         | SK   | 455      |            | 637 00    |
| CE504               | Plus Cont'ner Utilization Charge       | Job  | 1        |            | 250 00    |
| S003                | Service Supervisor, first 8 hrs on job | EG   | 1        |            | 175 00    |

SUB TOTAL **KG 11,475 90**

| CHEMICAL / ACID DATA: |  |  |  |
|-----------------------|--|--|--|
|                       |  |  |  |
|                       |  |  |  |
|                       |  |  |  |

|                     |            |  |
|---------------------|------------|--|
| SERVICE & EQUIPMENT | %TAX ON \$ |  |
| MATERIALS           | %TAX ON \$ |  |
| TOTAL               |            |  |

|  |  |
|--|--|
| SERVICE REPRESENTATIVE: <u>[Signature]</u> | THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>[Signature]</u> |
| FIELD SERVICE ORDER NO. _____              | (WELL OWNER OPERATOR CONTRACTOR OR AGENT)  |

# BASIC

energy services, L.P.

## TREATMENT REPORT

|  |                             |                                      |
|--|-----------------------------|--------------------------------------|
| Customer<br><i>Murkin Drilling Co.</i> | Lease No.                   | Date<br><i>6-7-2014</i>              |
| Lease<br><i>Pounce</i>                 | Well #<br><i>1-34</i>       |                                      |
| Field Order #<br><i>10665</i>          | Station<br><i>Pratt, KS</i> | Casing<br><i>9 5/8</i>               |
| Type Job<br><i>CNW Surface</i>         | Depth<br><i>647</i>         | County<br><i>Stark Co</i>            |
|  | Formation<br><i>TD-645</i>  | State<br><i>KS</i>                   |
|  |                             | Legal Description<br><i>34-22-12</i> |

| PIPE DATA                 |              | PERFORATING DATA |    | FLUID USED |            | TREATMENT RESUME |                  |  |
|---------------------------|--------------|------------------|----|------------|------------|------------------|------------------|--|
| Casing Size               | Tubing Size  | Shots/Ft         |    | Acid       | RATE       | PRESS            | ISIP             |  |
| <i>9 5/8</i>              |              |                  |    |            |            |                  | 5 Min.           |  |
| Depth<br><i>647</i>       | Depth        | From             | To | Pre Pad    | Max        |                  | 10 Min.          |  |
| Volume<br><i>44 bbls</i>  | Volume       | From             | To | Pad        | Min        |                  | 15 Min.          |  |
| Max Press                 | Max Press    | From             | To | Frac       | Avg        |                  |                  |  |
| Well Connection           | Annulus Vol. | From             | To |            | HHP Used   |                  | Annulus Pressure |  |
| Plug Depth<br><i>605'</i> | Packer Depth | From             | To | Flush      | Gas Volume |                  | Total Load       |  |

|   |   |                                  |
|---|---|----------------------------------|
| Customer Representative<br><i>Josh Tinoco</i> | Station Manager<br><i>Kevin Gordley</i> | Treater<br><i>Darin Franklin</i> |
|---|---|----------------------------------|

|               |              |              |              |              |              |              |              |  |  |  |  |
|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--|--|--|--|
| Service Units | <i>27283</i> | <i>37586</i> | <i>27463</i> | <i>19960</i> | <i>21010</i> | <i>19959</i> | <i>73768</i> |  |  |  |  |
| Driver Names  | <i>Darin</i> | <i>Matt</i>  | <i>Shawn</i> | <i>Dale</i>  | <i>Dale</i>  | <i>Scott</i> | <i>Scott</i> |  |  |  |  |

| Time           | Casing Pressure | Tubing Pressure | Bbls. Pumped | Rate | Service Log                            |
|----------------|-----------------|-----------------|--------------|------|--|
| <i>12:30am</i> |                 |                 |              |      | <i>On location / Safety Meeting</i>    |
| <i>6:00am</i>  | <i>400</i>      |                 | <i>3</i>     |      | <i>Pump 3 bbls water</i>               |
|                | <i>400</i>      |                 | <i>89</i>    |      | <i>mix 235sx A-con Blend</i>           |
|                | <i>400</i>      |                 | <i>47</i>    |      | <i>mix 230sx Common Cement</i>         |
|                |                 |                 |              |      | <i>Shut down</i>                       |
|                |                 |                 |              |      | <i>Release plug</i>                    |
|                | <i>300</i>      |                 | <i>0</i>     |      | <i>Start displacement</i>              |
|                | <i>300</i>      |                 | <i>34</i>    |      | <i>slow rate</i>                       |
|                | <i>600</i>      |                 | <i>46</i>    |      | <i>Bump plug</i>                       |
| <i>7:00am</i>  | <i>600</i>      |                 |              |      | <i>Shut in</i>                         |
|                |                 |                 |              |      | <i>Cement d.d. Circulate</i>           |
|                |                 |                 |              |      | <i>Job complete / Darin &amp; crew</i> |
|                |                 |                 |              |      | <i>Thank you!!!</i>                    |





WELL PILE

|                                   |                    |                            |
|-----------------------------------|--------------------|----------------------------|
| PAGE<br>1 of 1                    | CUST NO<br>1002852 | INVOICE DATE<br>06/17/2014 |
| INVOICE NUMBER<br>1718 - 91518613 |                    |                            |

Pratt (620) 672-1201  
 B MURFIN DRILLING  
 I PO Box: 288  
 L RUSSELL  
 L KS US 67665  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Pound 1-3  
 O LOCATION  
 B COUNTY Stafford  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T JOB CONTACT  
 E

| JOB #    | EQUIPMENT # | PURCHASE ORDER NO. | TERMS         | DUE DATE   |
|----------|-------------|--------------------|---------------|------------|
| 40733964 | 19905       |                    | Net - 30 days | 07/17/2014 |

|  | QTY      | U of M | UNIT PRICE | INVOICE AMOUNT |
|--|----------|--------|------------|----------------|
| <b>For Service Dates: 06/14/2014 to 06/14/2014</b> |          |        |            |                |
| 0040733964   |          |        |            |                |
| USED FOR <u>IC 103</u>                             |          |        |            |                |
| APPROVED <u>[Signature]</u>                        |          |        |            |                |
| 171810623A Cement-New Well Casing/Pi 06/14/2014    |          |        |            |                |
| Cement 5 1/2" Longstring                           |          |        |            |                |
| AA2 Cement   | 270.00   | EA     | 12.75      | 3,442.30 T     |
| C-41P  | 64.00    | EA     | 3.00       | 191.99 T       |
| Salt   | 1,337.00 | EA     | 0.37       | 501.34 T       |
| Cement Friction Reducer                            | 77.00    | EA     | 4.50       | 346.48 T       |
| C-44   | 254.00   | EA     | 3.86       | 981.01 T       |
| FLA-322  | 127.00   | EA     | 5.62       | 714.33 T       |
| Gilsonite  | 1,350.00 | EA     | 0.50       | 678.33 T       |
| Mud Flush  | 500.00   | EA     | 1.12       | 562.47 T       |
| Claymax KCL Substitute                             | 5.00     | EA     | 26.25      | 131.24 T       |
| "Latch Down Plug & Baffle, 5 1/2" (Blue)"          | 1.00     | EA     | 299.98     | 299.98         |
| "Auto Fill Float Shoe 5 1/2" (Blue)"               | 1.00     | EA     | 269.98     | 269.98         |
| "Turbolizer, 5 1/2" (Blue)"                        | 10.00    | EA     | 82.50      | 824.95         |
| Cement Scratchers Rotating Type                    | 20.00    | EA     | 37.50      | 749.95         |
| "Unit Mileage Chg (PU, cars one way)"              | 35.00    | MI     | 3.19       | 111.56         |
| Heavy Equipment Mileage                            | 70.00    | MI     | 5.25       | 367.48         |
| "Proppant & Bulk Del. Chgs., per ton mil           | 445.00   | EA     | 1.65       | 734.20         |
| Depth Charge; 3001-4000'                           | 1.00     | EA     | 1,619.90   | 1,619.90       |
| Blending & Mixing Service Charge                   | 270.00   | BAG    | 1.05       | 283.48         |
| Casing Swivel Rental                               | 1.00     | EA     | 149.99     | 149.99         |
| Plug Container Util. Chg.                          | 1.00     | EA     | 187.49     | 187.49         |
| "Service Supervisor, first 8 hrs on loc.           | 1.00     | EA     | 131.24     | 131.24         |

|                           |                               |               |           |
|---------------------------|-------------------------------|---------------|-----------|
| PLEASE REMIT TO:          | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL     | 13,279.69 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP     | TAX           | 539.79    |
| PO BOX 841903             | 801 CHERRY ST, STE 2100       | INVOICE TOTAL | 13,819.48 |
| DALLAS, TX 75284-1903     | FORT WORTH, TX 76102          |               |           |





**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

**FIELD SERVICE TICKET**  
1718 10623 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

|                           |       |                           |     |  |     |                            |         |    |      |
|---------------------------|-------|---------------------------|-----|--|-----|----------------------------|---------|----|------|
| DATE OF JOB: 6-14-14      |       | DISTRICT: Pratt           |     | NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.: |     |                            |         |    |      |
| CUSTOMER: Murfin Drilling |       | LEASE: Pound 1-3          |     | WELL NO.:  |     |                            |         |    |      |
| ADDRESS:                  |       | COUNTY: Stafford          |     | STATE: KS  |     |                            |         |    |      |
| CITY:                     |       | STATE:                    |     | SERVICE CREW: Mike Josh Joe  |     |                            |         |    |      |
| AUTHORIZED BY:            |       | JOB TYPE: C/W Long string |     |  |     |                            |         |    |      |
| EQUIPMENT#                | HRS   | EQUIPMENT#                | HRS | EQUIPMENT#   | HRS | TRUCK CALLED               | DATE    | AM | TIME |
| 7686                      | 19905 | 41 min                    |     |  |     |                            | 6-13-14 | PM | 800  |
| 7459                      | 73768 | 40 min                    |     |  |     | ARRIVED AT JOB             | 6-13-14 | PM | 1000 |
| 7443                      |       |                           |     |  |     | START OPERATION            | 6-14-14 | AM | 205  |
|                           |       |                           |     |  |     | FINISH OPERATION           | 5       | AM | 245  |
|                           |       |                           |     |  |     | RELEASED                   | 9       | AM | 345  |
|                           |       |                           |     |  |     | MILES FROM STATION TO WELL |         |    | 35   |

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

| ITEM/PRICE REF. NO. | MATERIAL, EQUIPMENT AND SERVICES USED | UNIT | QUANTITY | UNIT PRICE | \$ AMOUNT |
|---------------------|---------------------------------------|------|----------|------------|-----------|
| CP 105              | AA2 cement                            | SK   | 220      |            | 3,740 00  |
| CP 105              | AA2 cement                            | SK   | 50       |            | 850 00    |
| CC 105              | C-41 P                                | lb   | 64       |            | 256 00    |
| CC 111              | SqLT                                  | lb   | 1337     |            | 668 50    |
| CC 112              | cement Friction Reducer               | lb   | 77       |            | 462 00    |
| CC 115              | C-44                                  | lb   | 254      |            | 1,308 10  |
| CC 129              | FLA-322                               | lb   | 127      |            | 952 50    |
| CC 201              | Gilsonite                             | lb   | 1350     |            | 904 50    |
| CF 607              | latch Down Plug & Baffle              | eq   | 1        |            | 400 00    |
| CF 1251             | Auto fill shoe                        | eq   | 1        |            | 360 00    |
| CF 1651             | Turno                                 | eq   | 10       |            | 1,100 00  |
| CF 2002             | scrappers                             | eq   | 20       |            | 1,000 00  |
| CC 151              | Mud flush                             | gal  | 500      |            | 750 00    |
| CC 704              | KCL                                   | gal  | 5        |            | 175 00    |

| CHEMICAL / ACID DATA: |  |  |  |
|-----------------------|--|--|--|
|                       |  |  |  |
|                       |  |  |  |
|                       |  |  |  |

|                     |            |    |
|---------------------|------------|----|
| SUB TOTAL           |            | 20 |
| SERVICE & EQUIPMENT | %TAX ON \$ |    |
| MATERIALS           | %TAX ON \$ |    |
| TOTAL               |            |    |

SERVICE REPRESENTATIVE: *[Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*

FIELD SERVICE ORDER NO.

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)







Pound #1-3  
 Daily Drilling Report  
 Page Two

| Pound #1-3<br>660' FNL 330' FEL<br>Sec. 3-23S-12W<br>1841' KB |            |       |      |          |       |      | Rank OWWO #1-2<br>4620FSL 330FWL<br>Sec. 2-23S-12W<br>1836' KB |       |
|---|------------|-------|------|----------|-------|------|--|-------|
| Formation   | Sample top | Datum | Ref  | Log tops | Datum | Ref  | Log tops   | Datum |
| Anhydrite   | 613        | +1228 | -7   |          |       |      | 601  | +1235 |
| B/Anhydrite   | 635        | +1206 | -7   |          |       |      | 623  | +1213 |
| Stotler   |            |       |      | 2563     | -722  | -2   | 2556   | -720  |
| Topeka  | 2803       | -962  | -7   | 2797     | -956  | -1   | 2791   | -955  |
| Heebner   | 3173       | -1332 | -3   | 3169     | -1328 | +1   | 3165   | -1329 |
| Lansing   | 3309       | -1468 | -2   | 3305     | -1464 | +2   | 3302   | -1466 |
| Stark   | 3529       | -1688 | -4   | 3523     | -1683 | +1   | 3520   | -1684 |
| BKC   | 3578       | -1737 | Flat | 3578     | -1737 | Flat | 3573   | -1737 |
| Viola   | 3611       | -1770 | +42  | 3612     | -1771 | +41  | 3648   | -1812 |
| Simpson   | 3729       | -1888 | +15  | 3712     | -1871 | +32  | 3739   | -1903 |
| Arbuckle  | 3801       | -1960 | +15  | 3779     | -1938 | +37  | 3811   | -1975 |
| RTD   | 3916       |       |      |          |       |      | 3900   |       |
| LTD   |            |       |      | 3894     |       |      | 3894   |       |



## DRILL STEM TEST REPORT

Prepared For: **Murfin Drlg. Co., Inc.**

250 N. Water Ste. 300  
Wichita, KS 67202-1216

ATTN: Tim Pierce

### **Pound #1-3**

#### **3-23s-12w Stafford,KS**

Start Date: 2014.06.12 @ 10:16:27

End Date: 2014.06.12 @ 18:57:27

Job Ticket #: 51989                      DST #: 1

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

Printed: 2014.06.13 @ 10:16:26





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Murfin Drlg. Co., Inc.  
250 N. Water Ste. 300  
Wichita, KS 67202-1216  
ATTN: Tim Pierce

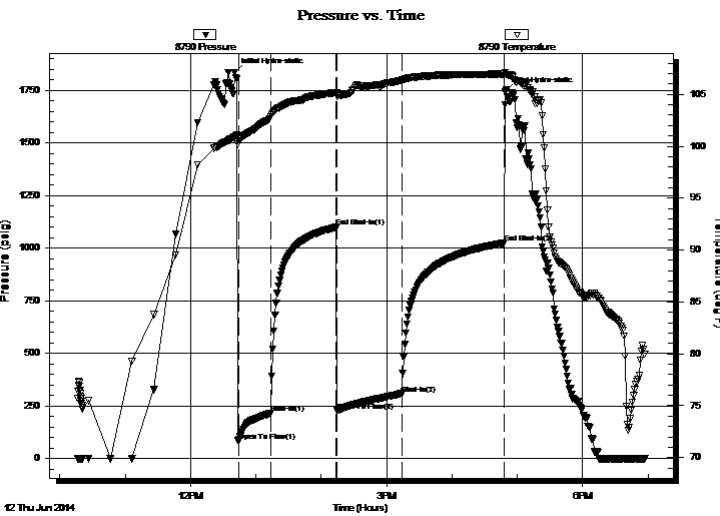
**3-23s-12w Stafford, KS**  
**Pound #1-3**  
Job Ticket: 51989 **DST#: 1**  
Test Start: 2014.06.12 @ 10:16:27

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:43:57  
Time Test Ended: 18:57:27  
Interval: **3552.00 ft (KB) To 3737.00 ft (KB) (TVD)**  
Total Depth: 3737.00 ft (KB) (TVD)  
Hole Diameter: 8.75 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Ryan Reynolds  
Unit No: 68  
Reference Elevations: 1841.00 ft (KB)  
1830.00 ft (CF)  
KB to GR/CF: 11.00 ft

**Serial #: 8790 Inside**  
Press@RunDepth: 308.16 psig @ 3569.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2014.06.12 End Date: 2014.06.12 Last Calib.: 2014.06.12  
Start Time: 10:16:32 End Time: 18:57:27 Time On Btm: 2014.06.12 @ 12:40:42  
Time Off Btm: 2014.06.12 @ 16:48:57

TEST COMMENT: IF: Strong blow . BOB @ 12 min.  
IS: No blow  
FF: Fair blow . surf. - 4"  
FS: No blow



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1833.25         | 100.94       | Initial Hydro-static |
| 4           | 80.62           | 100.73       | Open To Flow (1)     |
| 33          | 215.20          | 102.83       | Shut-In(1)           |
| 94          | 1099.35         | 105.16       | End Shut-In(1)       |
| 94          | 226.97          | 104.83       | Open To Flow (2)     |
| 154         | 308.16          | 106.35       | Shut-In(2)           |
| 247         | 1023.75         | 106.96       | End Shut-In(2)       |
| 249         | 1743.92         | 107.11       | Final Hydro-static   |

## Recovery

| Length (ft) | Description               | Volume (bbl) |
|-------------|---------------------------|--------------|
| 120.00      | OGWCM 1%o, 5%g, 5%w, 89%m | 0.59         |
| 495.00      | OGCM 6%o, 25%g, 69%m      | 5.52         |
| 0.00        | 120' GIP                  | 0.00         |
|             |                           |              |
|             |                           |              |

## Gas Rates

|  | Choke (inches) | Pressure (psig) | Gas Rate (m <sup>3</sup> /d) |
|--|----------------|-----------------|------------------------------|
|  |                |                 |                              |





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Murfin Drlg. Co., Inc.

**3-23s-12w Stafford,KS**

250 N. Water Ste. 300  
Wichita, KS 67202-1216

**Pound #1-3**

Job Ticket: 51989

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2014.06.12 @ 10:16:27

## Tool Information

|                           |                    |                       |                                |                                    |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe:               | Length: 3268.00 ft | Diameter: 3.80 inches | Volume: 45.84 bbl              | Tool Weight: 2500.00 lb            |
| Heavy Wt. Pipe:           | Length: ft         | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer: 20000.00 lb  |
| Drill Collar:             | Length: 276.00 ft  | Diameter: 2.25 inches | Volume: 1.36 bbl               | Weight to Pull Loose: 80000.00 lb  |
|                           |                    |                       | <u>Total Volume: 47.20 bbl</u> | Tool Chased 0.00 ft                |
| Drill Pipe Above KB:      | 19.00 ft           |                       |                                | String Weight: Initial 65000.00 lb |
| Depth to Top Packer:      | 3552.00 ft         |                       |                                | Final 66000.00 lb                  |
| Depth to Bottom Packer:   | ft                 |                       |                                |                                    |
| Interval between Packers: | 185.00 ft          |                       |                                |                                    |
| Tool Length:              | 212.00 ft          |                       |                                |                                    |
| Number of Packers:        | 2                  | Diameter: 8.00 inches |                                |                                    |

Tool Comments:

## Tool Description

| Tool Description          | Length (ft)   | Serial No. | Position | Depth (ft) | Accum. Lengths                 |
|---------------------------|---------------|------------|----------|------------|--------------------------------|
| Change Over Sub           | 1.00          |            |          | 3526.00    |                                |
| Shut In Tool              | 5.00          |            |          | 3531.00    |                                |
| Hydraulic tool            | 5.00          |            |          | 3536.00    |                                |
| Jars                      | 5.00          |            |          | 3541.00    |                                |
| Safety Joint              | 2.00          |            |          | 3543.00    |                                |
| Packer                    | 5.00          |            |          | 3548.00    | 27.00 Bottom Of Top Packer     |
| Packer                    | 4.00          |            |          | 3552.00    |                                |
| Stubb                     | 1.00          |            |          | 3553.00    |                                |
| Perforations              | 15.00         |            |          | 3568.00    |                                |
| Change Over Sub           | 1.00          |            |          | 3569.00    |                                |
| Recorder                  | 0.00          | 8790       | Inside   | 3569.00    |                                |
| Recorder                  | 0.00          | 8792       | Outside  | 3569.00    |                                |
| Drill Pipe                | 159.00        |            |          | 3728.00    |                                |
| Change Over Sub           | 1.00          |            |          | 3729.00    |                                |
| Perforations              | 5.00          |            |          | 3734.00    |                                |
| Bullnose                  | 3.00          |            |          | 3737.00    | 185.00 Bottom Packers & Anchor |
| <b>Total Tool Length:</b> | <b>212.00</b> |            |          |            |                                |



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Murfin Drlg. Co., Inc.

**3-23s-12w Stafford,KS**

250 N. Water Ste. 300  
Wichita, KS 67202-1216

**Pound #1-3**

Job Ticket: 51989

**DST#: 1**

ATTN: Tim Pierce

Test Start: 2014.06.12 @ 10:16:27

## Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

29000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 11800.00 ppm

Filter Cake: 0.02 inches

## Recovery Information

Recovery Table

| Length<br>ft | Description               | Volume<br>bbbl |
|--------------|---------------------------|----------------|
| 120.00       | OGWCM 1%o, 5%g, 5%w, 89%m | 0.590          |
| 495.00       | OGCM 6%o, 25%g, 69%m      | 5.522          |
| 0.00         | 120' GIP                  | 0.000          |

Total Length: 615.00 ft

Total Volume: 6.112 bbl

Num Fluid Samples: 0

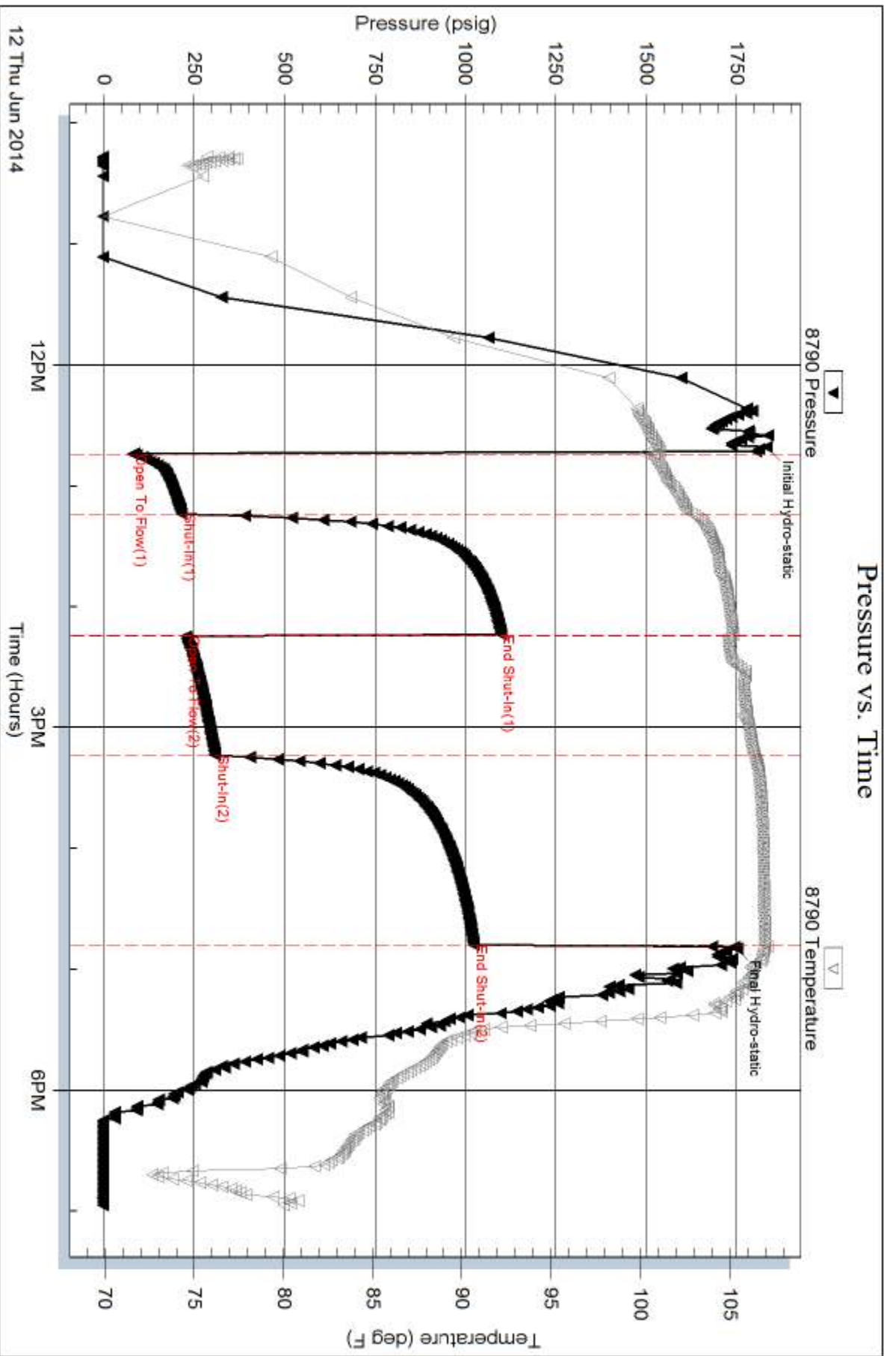
Num Gas Bombs: 0

Serial #: none

Laboratory Name:

Laboratory Location:

Recovery Comments:

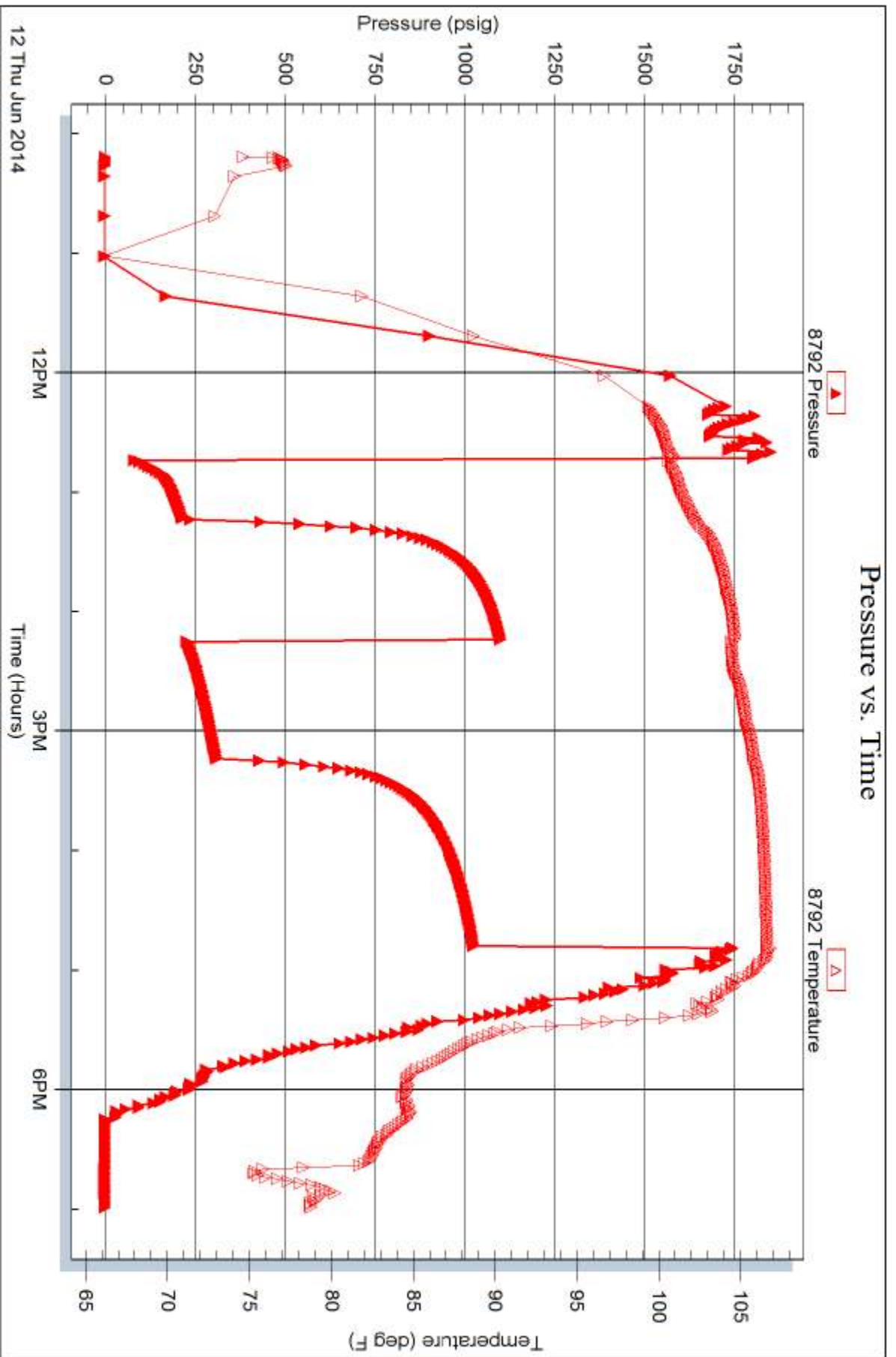


Serial #: 8792

Outside Murfin Dtg. Co., Inc.

Round #1-3

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 51989

Printed: 2014.06.13 @ 10:16:27





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 51989

Well Name & No. Pound 1-3 Test No. 1 Date 6-12-14  
 Company Murfin Drilling Co., Inc. Elevation 1841 KB 1830 GL  
 Address 250 N. Water Ste. 300 Wichita, KS 67202-1216  
 Co. Rep / Geo. Tim Pierce Rig Murfin 21  
 Location: Sec. 3 Twp. 23s. Rge. 12w Co. Stafford State KS

Interval Tested 3552-3737 Zone Tested Viola  
 Anchor Length 185 Drill Pipe Run 3268 Mud Wt. 9.3  
 Top Packer Depth 3547 Drill Collars Run 276 Vis 58  
 Bottom Packer Depth 3552 Wt. Pipe Run Ø WL 13.6  
 Total Depth 3737 Chlorides 11,800 ppm System LCM 1  
 Blow Description IF: Strong blow. BOB @ 12 min. ISI: No blow  
FF: Fair blow, surf - 4" FSI: No blow.

| Rec        | Feet of      | %gas      | %oil     | %water    | %mud |
|------------|--------------|-----------|----------|-----------|------|
| <u>120</u> | <u>GIP</u>   |           |          |           |      |
| <u>495</u> | <u>GOCM</u>  | <u>25</u> | <u>6</u> | <u>69</u> |      |
| <u>120</u> | <u>GOWCM</u> | <u>5</u>  | <u>1</u> | <u>89</u> |      |
| Rec        | Feet of      | %gas      | %oil     | %water    | %mud |
| Rec        | Feet of      | %gas      | %oil     | %water    | %mud |

Rec Total 615 BHT 107 Gravity N/L API RW 23 @ 73 °F Chlorides 29000 ppm

|                         |             |                                     |                |                         |                          |   |
|-------------------------|-------------|-------------------------------------|----------------|-------------------------|--------------------------|---|
| (A) Initial Hydrostatic | <u>1833</u> | <input checked="" type="checkbox"/> | Test           | <u>1150</u>             | T-On Location            | <u>0845</u>   |
| (B) First Initial Flow  | <u>81</u>   | <input checked="" type="checkbox"/> | Jars           | <u>250</u>              | T-Started                | <u>1016</u>   |
| (C) First Final Flow    | <u>215</u>  | <input checked="" type="checkbox"/> | Safety Joint   | <u>75</u>               | T-Open                   | <u>1244</u>   |
| (D) Initial Shut-In     | <u>1099</u> | <input type="checkbox"/>            | Circ Sub       |                         | T-Pulled                 | <u>1645</u>   |
| (E) Second Initial Flow | <u>227</u>  | <input checked="" type="checkbox"/> | Hourly Standby | <u>1 hour</u>           | T-Out                    | <u>1857</u>   |
| (F) Second Final Flow   | <u>308</u>  | <input checked="" type="checkbox"/> | Mileage        | <u>70</u> <u>108.50</u> | Comments                 | <u>Charge \$1</u><br><u>Non Standard hole</u><br><u>size (8 3/4")</u> |
| (G) Final Shut-In       | <u>1024</u> | <input type="checkbox"/>            | Sampler        |                         | <input type="checkbox"/> | Ruined Shale Packer   |
| (H) Final Hydrostatic   | <u>1744</u> | <input type="checkbox"/>            | Straddle       |                         | <input type="checkbox"/> | Ruined Packer   |
| Initial Open            | <u>30</u>   | <input type="checkbox"/>            | Shale Packer   | <u>8 3/4" 500</u>       | <input type="checkbox"/> | Extra Copies  |
| Initial Shut-In         | <u>60</u>   | <input type="checkbox"/>            | Extra Packer   |                         | Sub Total                | <u>0</u>  |
| Final Flow              | <u>60</u>   | <input type="checkbox"/>            | Extra Recorder |                         | Total                    | <u>2083.50</u>  |
| Final Shut-In           | <u>90</u>   | <input type="checkbox"/>            | Day Standby    |                         | MP/DST Disc't            |   |
|                         |             | <input type="checkbox"/>            | Accessibility  |                         |                          |   |
|                         |             |                                     | Sub Total      | <u>2083.50</u>          |                          |   |

Approved By Tim Pierce Our Representative Ryan Reynolds

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

# Timothy G. Pierce

## Petroleum Geologist

### GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Murfin Drilling Co., Inc.

LEASE Pound #1-3

FIELD Mikes Meteor

LOCATION E/2 NE NE (660' FNL & 330' FEL)

SEC 3 TWSP 23S RGE 12W

COUNTY Stafford STATE Kansas

CONTRACTOR Murfin Drilling Rig #21

SPUD 6-06-2014 COMP 6-13-2014

RTD 3916 LTD 3894

MUD UP 2653 TYPE MUD Chemical

SAMPLES SAVED FROM 2690 TO RTD

DRILLING TIME KEPT FROM 580-660 TO 2690 TO RTD

SAMPLES EXAMINED FROM 2690 TO RTD

GEOLOGICAL SUPERVISION FROM 2780 TO RTD

GEOLOGIST ON WELL Tim Pierce

#### ELEVATIONS

KB 1841'

DF \_\_\_\_\_

GL 1830'

Measurements Are All  
From Kelly Bushing

#### CASING

CONDUCTOR \_\_\_\_\_

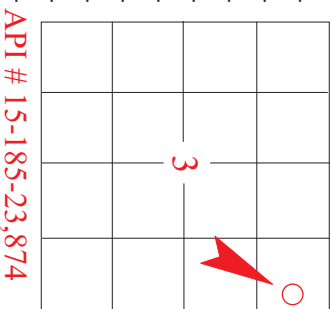
SURFACE 9-5/8" at 645'

PRODUCTION 5-1/2" at \_\_\_\_\_

#### ELECTRICAL SURVEYS

DIL, C/N/D, Sonic, Micro  
Dipole Sonic - Halliburton

| FORMATION TOPS | ELECTRIC LOG  | SAMPLE       |
|----------------|---------------|--------------|
| Anhydrite      | Behind casing | 613 (+1228)  |
| Base/Anhydrite | Behind casing | 635 (+1206)  |
| Topoka LS      | 2796 (-955)   | 2795 (-954)  |
| Heebner Sh.    | 3169 (-1328)  | 3173 (-1332) |
| Lansing        | 3305 (-1464)  | 3309 (-1468) |
| Stark Sh.      | 3523 (-16828) | 3529 (-1688) |
| Simpson        | 3724 (-1883)  | 3729 (-1888) |
| Arbuckle       | 3779 (-1938)  | 3801 (-1960) |



API # 15-185-23,874

#### REMARKS Drilled 8-3/4" hole to allow for coring.

The well was cored from 3612' to 3737'. The core barrel was then cut into smaller sections and removed from location. The rock was not examined for rock type, porosity, or oil shows except at the cut ends of each section of the core barrel. Cuttings were examined at 10' intervals during the core process attempting to determine lithology, formation tops, etc

A drill stem test covering the cored interval indicated a probable productive zone in the Viola.

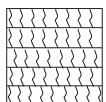
Several Kansas City zones carried slight sample shows, none of these zones were tested.

There were no other zones of interest indicated by sample examination or electric logs.

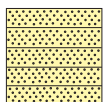
*Timothy G. Pierce*

Timothy G. Pierce

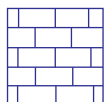
#### LEGEND



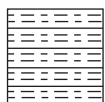
Anhydrite



Sandstone



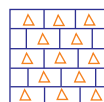
Limestone



Shale



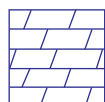
Carb Sh



Cherty LS



Chert



Dolomite

DRILLING TIME IN  
MINUTES PER FOOT

Rate of Penetration Decreases



DEPT

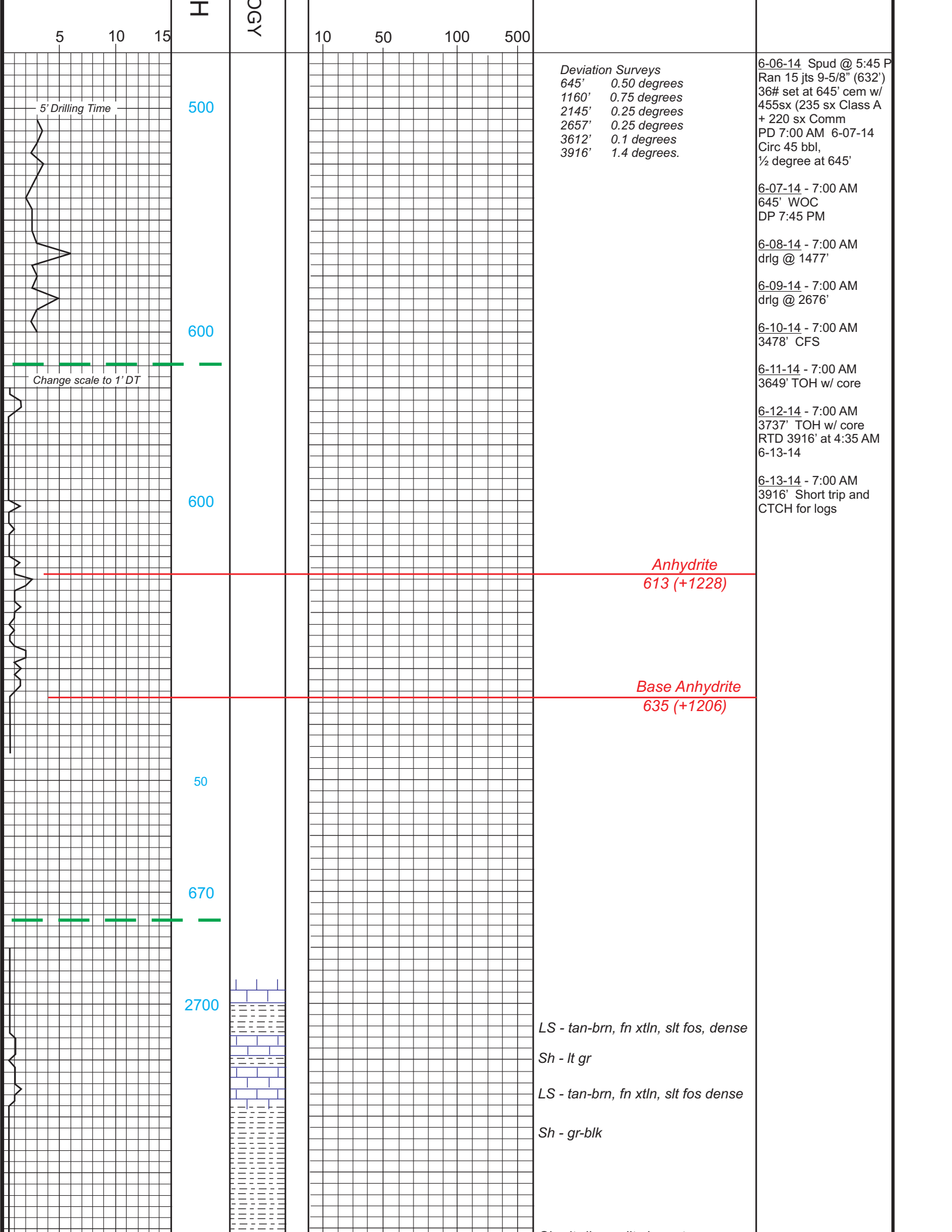
LITHOLG

GAS SCALE

SAMPLE DESCRIPTION

REMARKS





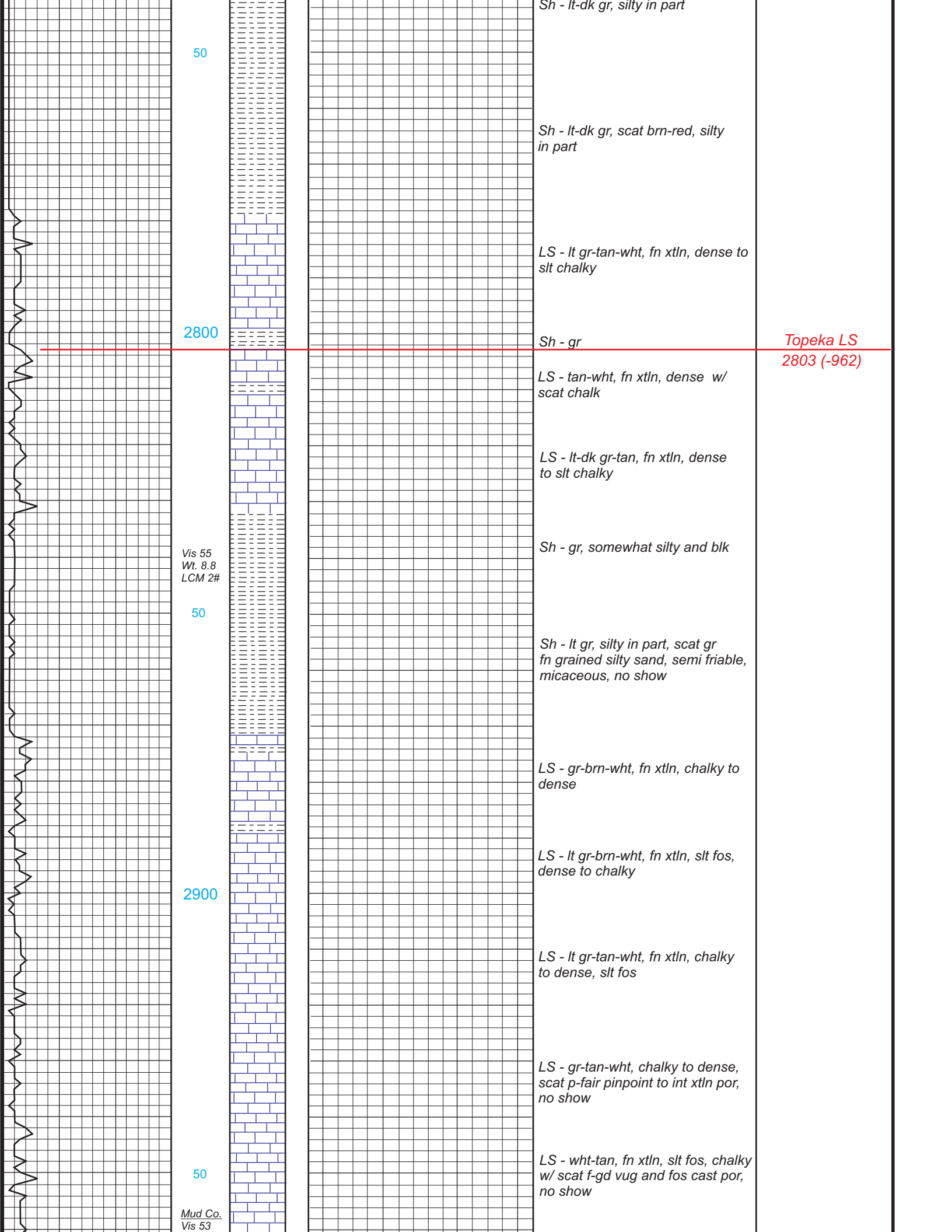
Deviation Surveys  
 645' 0.50 degrees  
 1160' 0.75 degrees  
 2145' 0.25 degrees  
 2657' 0.25 degrees  
 3612' 0.1 degrees  
 3916' 1.4 degrees.

6-06-14 Spud @ 5:45 P  
 Ran 15 jts 9-5/8" (632')  
 36# set at 645' cem w/  
 455sx (235 sx Class A  
 + 220 sx Comm  
 PD 7:00 AM 6-07-14  
 Circ 45 bbl,  
 1/2 degree at 645'  
 6-07-14 - 7:00 AM  
 645' WOC  
 DP 7:45 PM  
 6-08-14 - 7:00 AM  
 drlg @ 1477'  
 6-09-14 - 7:00 AM  
 drlg @ 2676'  
 6-10-14 - 7:00 AM  
 3478' CFS  
 6-11-14 - 7:00 AM  
 3649' TOH w/ core  
 6-12-14 - 7:00 AM  
 3737' TOH w/ core  
 RTD 3916' at 4:35 AM  
 6-13-14  
 6-13-14 - 7:00 AM  
 3916' Short trip and  
 CTCH for logs

Anhydrite  
 613 (+1228)

Base Anhydrite  
 635 (+1206)

LS - tan-brn, fn xtl'n, slt fos, dense  
 Sh - lt gr  
 LS - tan-brn, fn xtl'n, slt fos dense  
 Sh - gr-blk



50

Sh - lt-dk gr, silty in part

Sh - lt-dk gr, scat brn-red, silty in part

LS - lt gr-tan-wht, fn xtl'n, dense to slt chalky

2800

Sh - gr

Topeka LS  
2803 (-962)

LS - tan-wht, fn xtl'n, dense w/ scat chalk

LS - lt-dk gr-tan, fn xtl'n, dense to slt chalky

Vis 55  
Wt. 8.8  
LCM 2#

Sh - gr, somewhat silty and blk

50

Sh - lt gr, silty in part, scat gr fn grained silty sand, semi friable, micaceous, no show

LS - gr-brn-wht, fn xtl'n, chalky to dense

LS - lt gr-brn-wht, fn xtl'n, slt fos, dense to chalky

2900

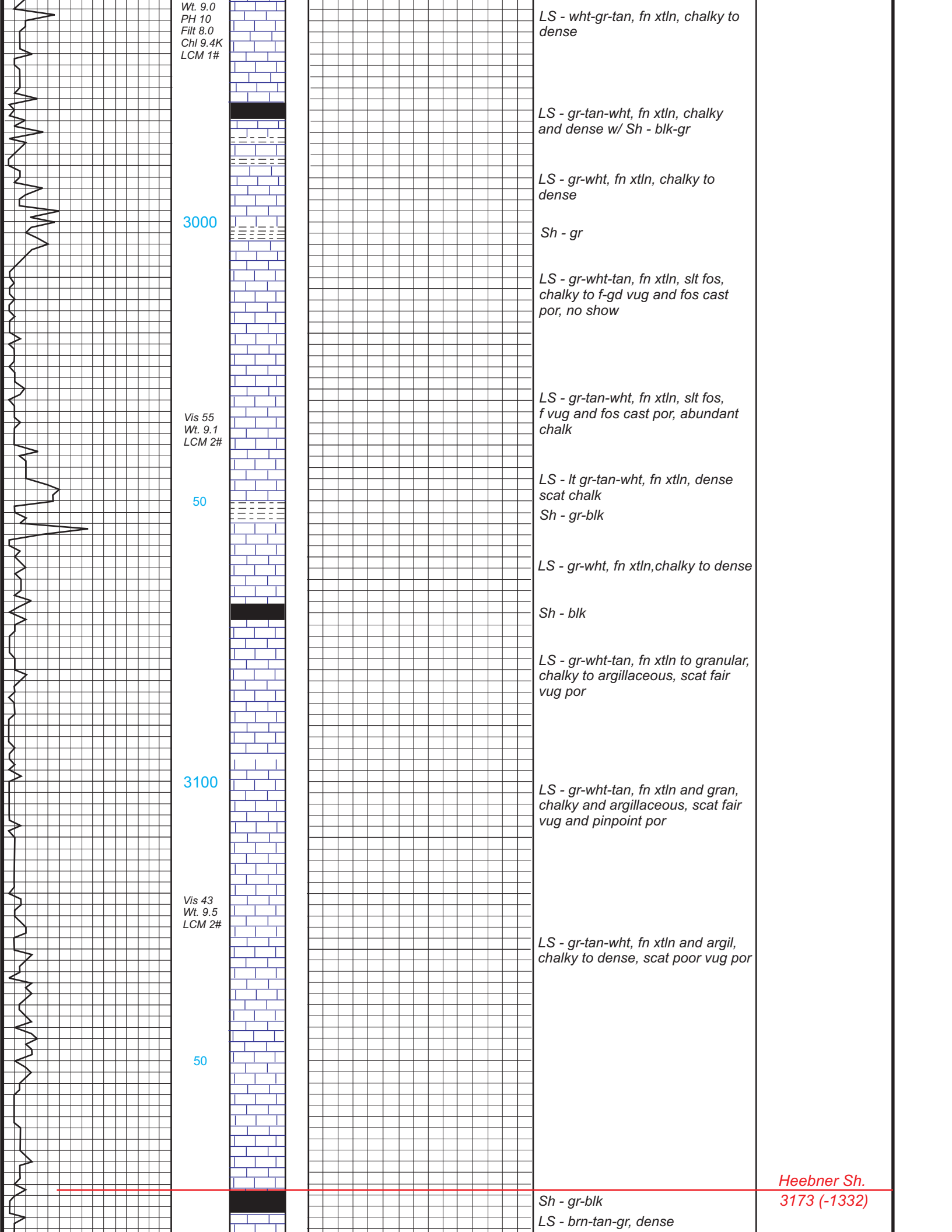
LS - lt gr-tan-wht, fn xtl'n, chalky to dense, slt fos

LS - gr-tan-wht, chalky to dense, scat p-fair pinpoint to int xtl'n por, no show

50

LS - wht-tan, fn xtl'n, slt fos, chalky w/ scat f-gd vug and fos cast por, no show

Mud Co.  
Vis 53



Wt. 9.0  
PH 10  
Filt 8.0  
Chl 9.4K  
LCM 1#

3000

Vis 55  
Wt. 9.1  
LCM 2#

50

3100

Vis 43  
Wt. 9.5  
LCM 2#

50

LS - wht-gr-tan, fn xtln, chalky to dense

LS - gr-tan-wht, fn xtln, chalky and dense w/ Sh - blk-gr

LS - gr-wht, fn xtln, chalky to dense

Sh - gr

LS - gr-wht-tan, fn xtln, slt fos, chalky to f-gd vug and fos cast por, no show

LS - gr-tan-wht, fn xtln, slt fos, f vug and fos cast por, abundant chalk

LS - lt gr-tan-wht, fn xtln, dense scat chalk  
Sh - gr-blk

LS - gr-wht, fn xtln, chalky to dense

Sh - blk

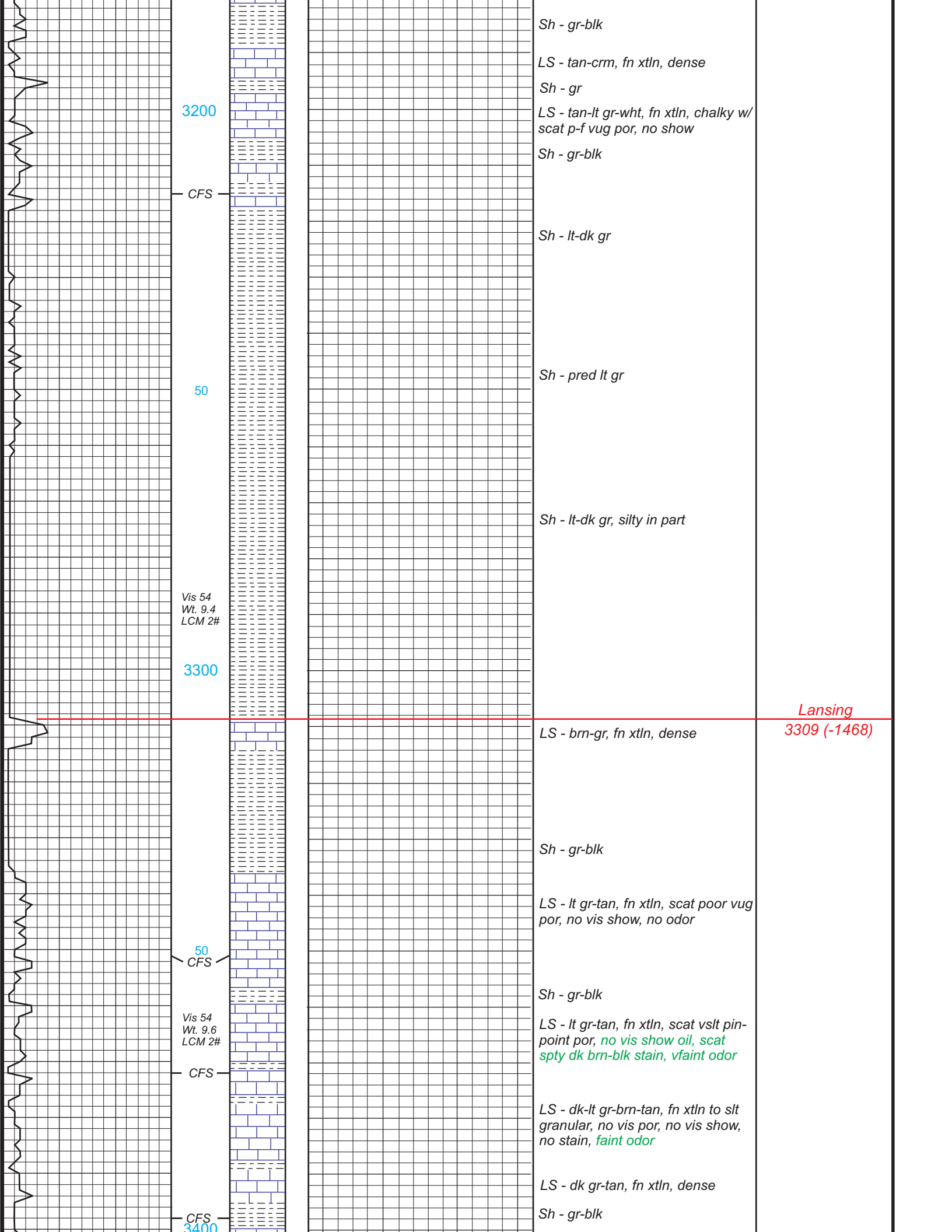
LS - gr-wht-tan, fn xtln to granular, chalky to argillaceous, scat fair vug por

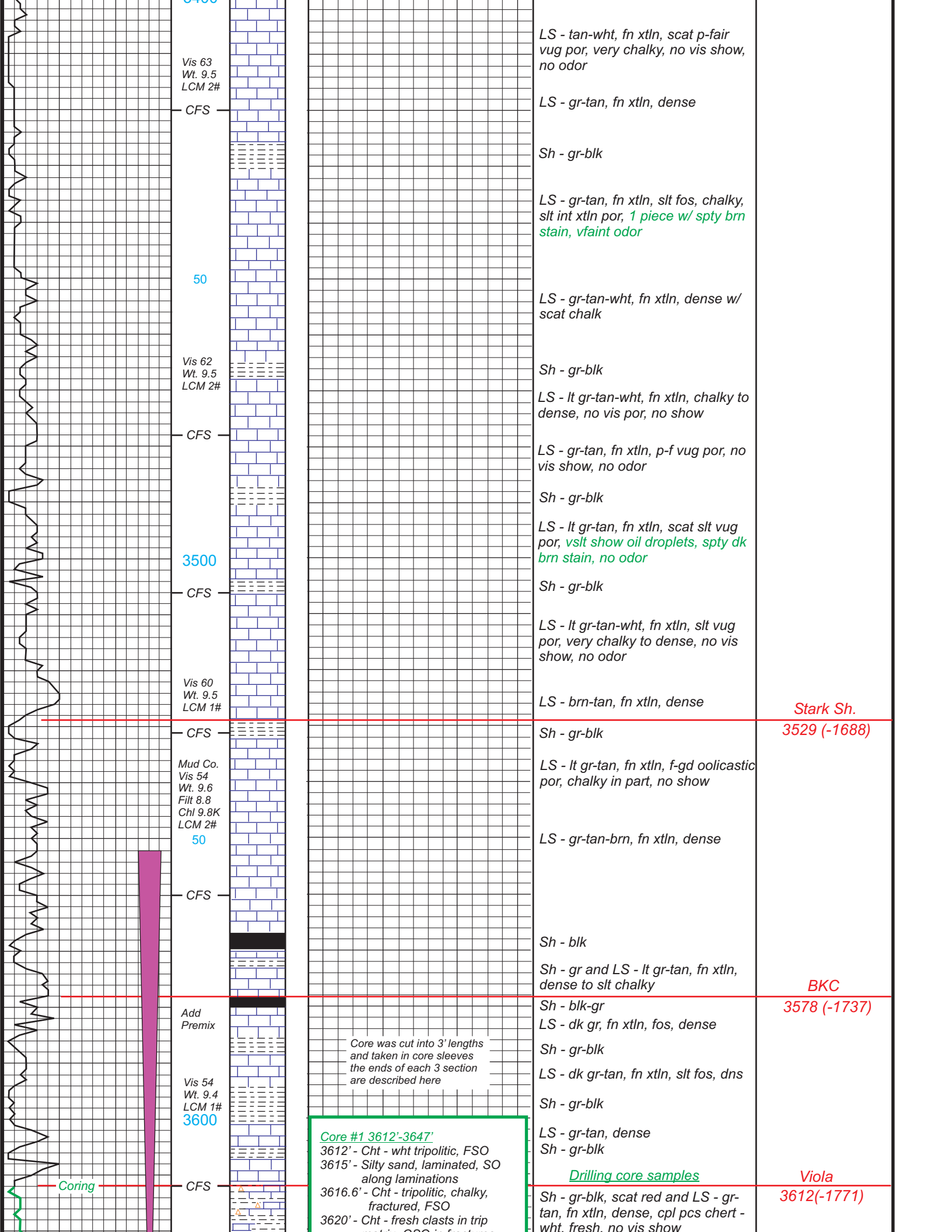
LS - gr-wht-tan, fn xtln and gran, chalky and argillaceous, scat fair vug and pinpoint por

LS - gr-tan-wht, fn xtln and argil, chalky to dense, scat poor vug por

Sh - gr-blk  
LS - brn-tan-gr, dense

Heebner Sh.  
3173 (-1332)





Vis 63  
Wt. 9.5  
LCM 2#

CFS

LS - tan-wht, fn xtl, scat p-fair vug por, very chalky, no vis show, no odor

LS - gr-tan, fn xtl, dense

Sh - gr-blk

LS - gr-tan, fn xtl, slt fos, chalky, slt int xtl por, 1 piece w/ spty brn stain, vfaint odor

50

LS - gr-tan-wht, fn xtl, dense w/ scat chalk

Vis 62  
Wt. 9.5  
LCM 2#

CFS

Sh - gr-blk

LS - lt gr-tan-wht, fn xtl, chalky to dense, no vis por, no show

LS - gr-tan, fn xtl, p-f vug por, no vis show, no odor

Sh - gr-blk

LS - lt gr-tan, fn xtl, scat slt vug por, vslt show oil droplets, spty dk brn stain, no odor

3500

CFS

Sh - gr-blk

LS - lt gr-tan-wht, fn xtl, slt vug por, very chalky to dense, no vis show, no odor

Vis 60  
Wt. 9.5  
LCM 1#

CFS

LS - brn-tan, fn xtl, dense

Stark Sh.  
3529 (-1688)

Mud Co.  
Vis 54  
Wt. 9.6  
Filt 8.8  
Chl 9.8K  
LCM 2#

50

CFS

Sh - gr-blk

LS - lt gr-tan, fn xtl, f-gd oolitic por, chalky in part, no show

LS - gr-tan-brn, fn xtl, dense

Sh - blk

Sh - gr and LS - lt gr-tan, fn xtl, dense to slt chalky

BKC  
3578 (-1737)

Add Premix

Vis 54  
Wt. 9.4  
LCM 1#  
3600

CFS

Core was cut into 3' lengths and taken in core sleeves the ends of each 3 section are described here

Core #1 3612'-3647'  
3612' - Cht - wht tripolitic, FSO  
3615' - Silty sand, laminated, SO along laminations  
3616.6' - Cht - tripolitic, chalky, fractured, FSO  
3620' - Cht - fresh clasts in tripolitic, FSO

Sh - blk-gr

LS - dk gr, fn xtl, fos, dense

Sh - gr-blk

LS - dk gr-tan, fn xtl, slt fos, dns

Sh - gr-blk

LS - gr-tan, dense

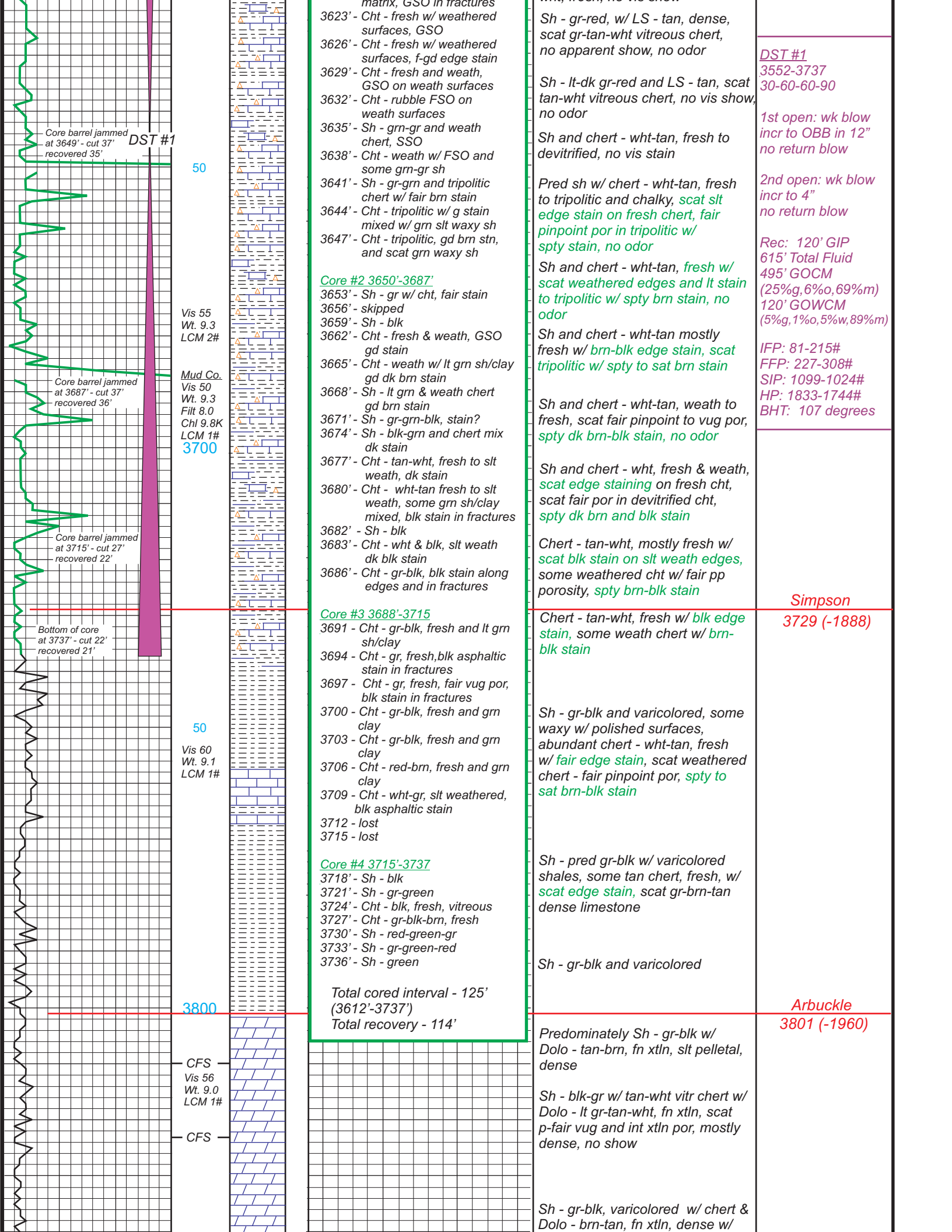
Sh - gr-blk

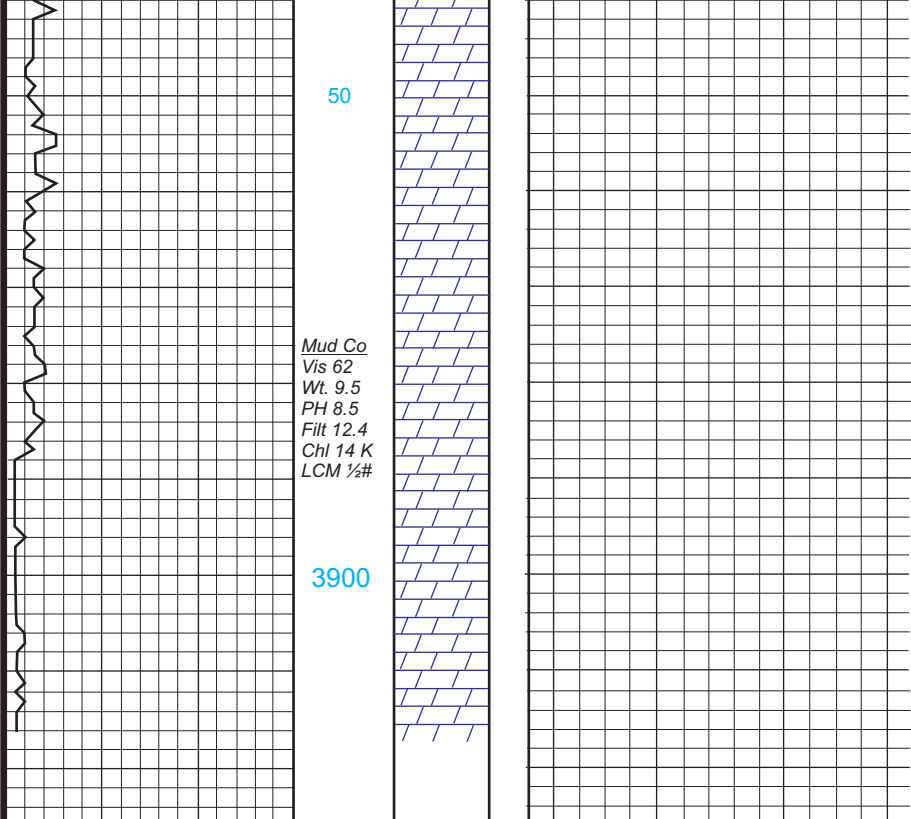
Drilling core samples

Viola  
3612(-1771)

Sh - gr-blk, scat red and LS - gr-tan, fn xtl, dense, cpl pcs chert - wht, fresh, no vis show

Coring





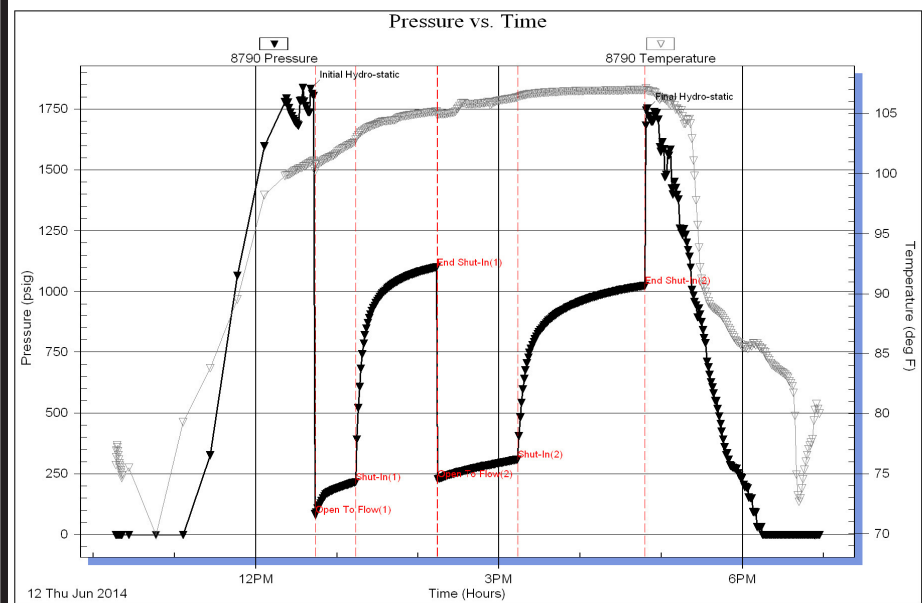
scat poor int xtlm por, no show

Sh - blk-gr and chert w/  
Dolo - lt gr-tan, fn xtlm, scat -poor  
int xtlm and vug por, no show

Sh - gr-blk, vitreous chert and  
Dolo - lt gr-wht, fn xtlm, scat  
int xtlm and vug por, 1 piece w/  
show oil film, sat brn stn

Sh - gr-blk, chert and  
Dolo - lt gr-wht, fn xtlm, some  
med xtlm, gd vug and int xtlm por,  
no show

Serial # 8790 Inside Murfin Drig. Co., Inc. Pound 1-3 DST Test Number: 1



DST #1  
3552-3737  
30-60-60-90

1st open: wk blow  
incr to OBB in 12"  
no return blow

2nd open: wk blow  
incr to 4"  
no return blow

Rec: 120' GIP  
615' Total Fluid  
495' GOCM  
(25%g,6%o,69%m)  
120' GOWCM  
(5%g,1%o,5%w,89%m)

IFP: 81-215#  
FFP: 227-308#  
SIP: 1099-1024#  
HP: 1833-1744#  
BHT: 107 degrees

Trilobite Testing, Inc Ref. No: 51989 Printed: 2014.06.12 @ 19:29:14

