



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1175765  
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: \_\_\_\_\_

1175765

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<br><i>(Attach Additional Sheets)</i> | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Log | Formation (Top), Depth and Datum | <input type="checkbox"/> Sample |
| Samples Sent to Geological Survey                           | <input type="checkbox"/> Yes <input type="checkbox"/> No | Name                         | Top                              | Datum                           |
| Cores Taken   | <input type="checkbox"/> Yes <input type="checkbox"/> No |                              |                                  |                                 |
| Electric Log Run  | <input type="checkbox"/> Yes <input type="checkbox"/> No |                              |                                  |                                 |
| List All E. Logs Run:                                       |  |                              |                                  |                                 |

| 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      |                  |                |              |                            |
| <input type="checkbox"/> Protect Casing |                  |                |              |                            |
| <input type="checkbox"/> Plug Back TD   |                  |                |              |                            |
| <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> <i>(Submit ACO-4)</i><br><input type="checkbox"/> Other <i>(Specify)</i> _____ | <b>PRODUCTION INTERVAL:</b><br>_____<br>_____ |
|--|---|---|

|           |                                    |
|-----------|------------------------------------|
| Form      | ACO1 - Well Completion             |
| Operator  | Samuel Gary Jr. & Associates, Inc. |
| Well Name | DINKEL 1-26                        |
| Doc ID    | 1175765                            |

All Electric Logs Run

|           |
|-----------|
|           |
| INDUCTION |
| MICRO     |
| POROSITY  |
| SONIC     |
| SPECTRAL  |





**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/16/2013  
 Invoice # 7770  
 P.O.#:  
 Due Date: 10/16/2013  
 Division: Russell

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1815 11th Street  
 Great Bend, KS 67530

DRLG  COMP  W/O  LOE  GG

|               |          |
|---------------|----------|
| Account       | 8200-138 |
| Well/Prospect |          |
| Deck          |          |
| AFE           |          |
| Approval      |          |
| Description   |          |

**Reference:**  
 DINKEL 1-26

RECEIVED  
 SEP 23 2013  
 SAMUEL GARY JR.  
 & ASSOCIATES, INC.

**Description of Work:**  
 LONG SURFACE JOB

| Services / Items Included:              | Quantity | Price       | Taxable |
|---|----------|-------------|---------|
| Labor                                   |          | \$ 977.42   | No      |
| Common-Class A                          | 350      | \$ 5,619.72 | Yes     |
| 8 5/8" Basket                           | 3        | \$ 1,014.76 | Yes     |
| Bulk Truck Matl-Material Service Charge | 370      | \$ 792.11   | No      |
| Calcium Chloride                        | 13       | \$ 663.21   | Yes     |
| 8 5/8" Centralizer                      | 3        | \$ 205.52   | Yes     |
| Flo Seal                                | 87       | \$ 186.25   | Yes     |
| Premium Gel (Bentonite)                 | 7        | \$ 121.99   | Yes     |
| Pump Truck Mileage-Job to Nearest Camp  | 12       | \$ 128.19   | No      |
| 8 5/8" Top Rubber Plug                  | 1        | \$ 113.46   | Yes     |
| Baffle Plate Aluminum, 8 5/8"           | 1        | \$ 96.34    | Yes     |

| Item   | Quantity | Price   | Taxable |
|--|----------|---------|---------|
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 12       | \$75.02 | No      |

**Invoice Terms:**

Net 30

SubTotal: \$ 9,994.00  
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,499.10)

|                                 |                    |
|---------------------------------|--------------------|
| SubTotal for Taxable Items:     | \$ 6,818.07        |
| SubTotal for Non-Taxable Items: | \$ 1,676.83        |
| <b>Total:</b>                   | <b>\$ 8,494.90</b> |
| <b>Tax:</b>                     | <b>\$ 419.31</b>   |

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 8,914.21**  
**Applied Payments:**  
**Balance Due: \$ 8,914.21**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.


# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7770

|                        |   |      |            |           |    |       |  |  |       |  |    |             |  |        |         |  |
|------------------------|---|------|------------|-----------|----|-------|--|--|-------|--|----|-------------|--|--------|---------|--|
| Date                   | 9-16-13   | Sec. | 26         | Twp.      | 14 | Range | 17   | County   | Ellis | State  | Ks | On Location |  | Finish | 7:45 AM |  |
| Lease                  | Dinkel  |      |            |           |    |       |  | Well No.   | 1-26  | Location Victoria, Ks - 200 to 320 Rd, S to Munier Rd, 3/4 S, E/Into |    |             |  |        |         |  |
| Contractor             | Discovery 2   |      |            |           |    |       |  | Owner To Quality Oilwell Cementing, Inc.<br>You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |       |  |    |             |  |        |         |  |
| Type Job               | Surface   |      |            |           |    |       |  | Charge To Sam Gacy Jr. + Associates  |       |  |    |             |  |        |         |  |
| Hole Size              | 12 1/4"   |      | T.D.       | 860'      |    |       | Street   |  |       |  |    |             |  |        |         |  |
| Csg.                   | 8 5/8"  |      | Depth      | 859'      |    |       | City State   |  |       |  |    |             |  |        |         |  |
| Tbg. Size              |   |      | Depth      |           |    |       | The above was done to satisfaction and supervision of owner agent or contractor. |  |       |  |    |             |  |        |         |  |
| Tool                   |   |      | Depth      |           |    |       | Cement Amount Ordered 350 sx Common 3% CC  |  |       |  |    |             |  |        |         |  |
| Cement Left in Csg.    | 42'   |      | Shoe Joint | 42'       |    |       | Meas Line Displace 52 BUS 2% Gel 1/4" Flo-seal                                   |  |       |  |    |             |  |        |         |  |
| EQUIPMENT              |   |      |            |           |    |       | Common 350   |  |       |  |    |             |  |        |         |  |
| Pumptrk                | 15  | No.  | Cementer   | Lonnie W. |    |       | Poz. Mix   |  |       |  |    |             |  |        |         |  |
| Bulktrk                | 13  | No.  | Driver     | David     |    |       | Gel. 7   |  |       |  |    |             |  |        |         |  |
| Bulktrk                | p.u.  | No.  | Driver     | Rick      |    |       | Calcium 13   |  |       |  |    |             |  |        |         |  |
| JOB SERVICES & REMARKS |   |      |            |           |    |       | Hulls  |  |       |  |    |             |  |        |         |  |
| Remarks:               | Cement did circulate  |      |            |           |    |       |  | Salt   |       |  |    |             |  |        |         |  |
| Rat Hole               |   |      |            |           |    |       |  | Flowseal 87#   |       |  |    |             |  |        |         |  |
| Mouse Hole             |   |      |            |           |    |       |  | Kol-Seal   |       |  |    |             |  |        |         |  |
| Centralizers           |   |      |            |           |    |       |  | Mud CLR 48   |       |  |    |             |  |        |         |  |
| Baskets                |   |      |            |           |    |       |  | CFL-117 or CD110 CAF 38  |       |  |    |             |  |        |         |  |
| D/V or Port Collar     |   |      |            |           |    |       |  | Sand   |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Handling 370   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Mileage  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | FLOAT EQUIPMENT  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Guide Shoe   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Centralizer 3  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Baskets 3  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | AFU Inserts  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Float Shoe   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Latch Down   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | 1- Baffle plate  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | 1- Rubber plug   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Pumptrk Charge Long Surface  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Mileage 12   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Tax  |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Discount   |  |       |  |    |             |  |        |         |  |
|                        |   |      |            |           |    |       | Total Charge   |  |       |  |    |             |  |        |         |  |
| X Signature            |  |      |            |           |    |       |  |  |       |  |    |             |  |        |         |  |



**QUALITY OILWELL CEMENTING, INC.**  
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665  
 Phone: 785-324-1041 fax: 785-483-1087  
 Email: cementing@ruraltel.net

Date: 9/21/2013  
 Invoice # 7383  
 P.O.#:  
 Due Date: 10/21/2013  
 Division: Russell

# Invoice

**Contact:**  
 Samuel Gary Jr & Associates Inc  
**Address/Job Location:**  
 Samuel Gary Jr & Associates Inc  
 1815 11th Street  
 Great Bend, KS 67530

**Reference:**  
 DINKEL 1-26

**Description of Work:**  
 PLUG JOB

**RECEIVED**  
 SEP 30 2013  
 SAMUEL GARY JR.  
 & ASSOCIATES, INC.

DRLG  COMP  W/O  LOE  GG

|               |                    |
|---------------|--------------------|
| Account       | 8200.145           |
| Well/Prospect |                    |
| Deck          |                    |
| AFE           |                    |
| Approval      | <i>[Signature]</i> |
| Description   |                    |

| Services / Items Included:                   | Quantity | Price       | Taxable |
|--|----------|-------------|---------|
| Labor  |          | \$ 1,020.55 | Yes     |
| Common-Class A                               | 138      | \$ 2,313.53 | Yes     |
| POZ Mix-Standard                             | 92       | \$ 647.79   | Yes     |
| Bulk Truck Matl-Material Service Charge      | 238      | \$ 532.00   | Yes     |
| Premium Gel (Bentonite)                      | 8        | \$ 145.56   | Yes     |
| Pump Truck Mileage-Job to Nearest Camp       | 12       | \$ 133.85   | Yes     |
| Flo Seal                                     | 50       | \$ 111.76   | Yes     |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 12       | \$ 78.32    | Yes     |
| Dry Hole Plug                                | 1        | \$ 62.59    | Yes     |

**Item**                      **Quantity**                      **Price**                      **Taxable**

**Invoice Terms:**

Net 30

SubTotal: \$ 5,045.95  
 Discount Available ONLY if Invoice is Paid & Received  
 within listed terms of invoice: \$ (756.89)

|                                 |                    |
|---------------------------------|--------------------|
| SubTotal for Taxable Items:     | \$ 4,289.06        |
| SubTotal for Non-Taxable Items: | \$ -               |
| <b>Total:</b>                   | <b>\$ 4,289.06</b> |
| <b>Tax:</b>                     | <b>\$ 263.78</b>   |

6.15% Ellis County Sales Tax

**Thank You For Your Business!**

**Amount Due: \$ 4,552.84**  
**Applied Payments:**  
**Balance Due: \$ 4,552.84**

Past Due Invoices are subject to a service charge (annual rate of 24%)  
 This does not include any applicable taxes unless it is listed.  
 ©2008-2013 Straker Investments, LLC. All rights reserved.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 7383

|         |      |      |       |        |       |             |            |
|---------|------|------|-------|--------|-------|-------------|------------|
| Date    | Sec. | Twp. | Range | County | State | On Location | Finish     |
| 9-21-13 | 26   | 14   | 17    | Ellis  | KS    |             | 10:00 A.M. |

Location *Victoria w to 320 2 1/2 Einto*

Lease *Dinkel* Well No. *1-26* Owner

Contractor *Discovery #2*  
Type Job *Rotary Plug*  
Hole Size *7 7/8* T.D. *362.5*  
Csg. Depth Street  
Tbg. Size Depth City State

Charge To *Sam Gary Jr & Associates*  
The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered *230 60/40 4.1 Gal 4/11/16*

Meas Line Displace  
EQUIPMENT  
Pumptrk *17* No. Cementer *raig*  
Bulktrk No. Driver *Cody*  
Bulktrk *12* No. Driver *Clayton*

Common *138*  
Poz. Mix *92*  
Gel. *8*  
Calcium  
Hulls

**JOB SERVICES & REMARKS**

Remarks:  
Rat Hole *30SK*  
Mouse Hole *15SK*  
Centralizers  
Baskets  
D/V or Port Collar

Salt  
Flowseal *50H*  
Kol-Seal  
Mud CLR 48  
CFL-117 or CD110 CAF 38  
Sand

Handling *238*  
Mileage  
FLOAT EQUIPMENT

Guide Shoe  
Centralizer  
Baskets *8 5/8 Woodn Plug*  
AFU Inserts  
Float Shoe  
Latch Down

Pumptrk Charge *plug*  
Mileage *12*

Tax  
Discount  
Total Charge

X  
Signature





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Samuel Gary Jr & Associates Inc

**26-14s-17w**

**Dinkel 1-26**

Job Ticket: 041769

**DST#: 1**

ATTN:

Test Start: 2013.09.20 @ 15:23:59

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:20:29

Time Test Ended: 22:53:59

Test Type: Conventional Straddle (Initial)

Tester: Jeff Brown

Unit No: # 67

**Interval: 3485.00 ft (KB) To 3500.00 ft (KB) (TVD)**

Reference Elevations: 1963.00 ft (KB)

Total Depth: 3625.00 ft (KB) (TVD)

1955.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**

Press @ Run Depth: 37.21 psig @ 3488.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.09.20 End Date: 2013.09.20

Last Calib.: 2013.09.20

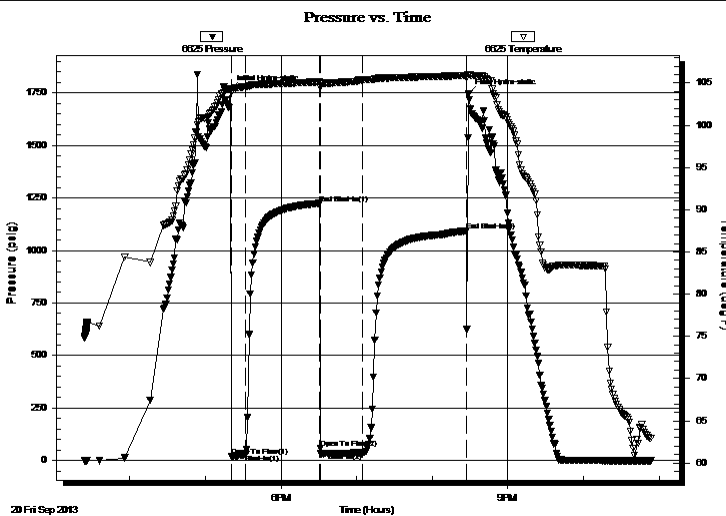
Start Time: 15:24:00 End Time: 22:53:59

Time On Btm: 2013.09.20 @ 17:19:59

Time Off Btm: 2013.09.20 @ 20:28:59

**TEST COMMENT:** IFP=10-min=Weak blow built to 1-1/4 in  
 ISI=75-min=Dead no blow back  
 FFP=20-min=Weak blow built to 1-1/2 in  
 FSI=80-Min=Dead no blow back

## PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1765.04         | 104.36       | Initial Hydro-static |
| 1           | 19.91           | 103.84       | Open To Flow (1)     |
| 12          | 30.68           | 104.56       | Shut-In(1)           |
| 71          | 1224.35         | 105.15       | End Shut-In(1)       |
| 71          | 59.40           | 104.53       | Open To Flow (2)     |
| 105         | 37.21           | 105.40       | Shut-In(2)           |
| 187         | 1092.99         | 105.88       | End Shut-In(2)       |
| 189         | 1748.33         | 106.03       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 42.00       | OCM 10%O 90%M  | 0.32         |
| 8.00        | Free Oil 100%O | 0.11         |
|             |                |              |
|             |                |              |
|             |                |              |

## Gas Rates

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







**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Samuel Gary Jr & Associates Inc

**26-14s-17w**

**Dinkel 1-26**

Job Ticket: 041769

**DST#: 1**

ATTN:

Test Start: 2013.09.20 @ 15:23:59

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 68.00 sec/qt

Water Loss: 8.79 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6300.00 ppm

Filter Cake: inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API:

Water Salinity: deg API

ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description    | Volume<br>bbl |
|--------------|----------------|---------------|
| 42.00        | OCM 10%O 90%M  | 0.316         |
| 8.00         | Free Oil 100%O | 0.112         |

Total Length: 50.00 ft      Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

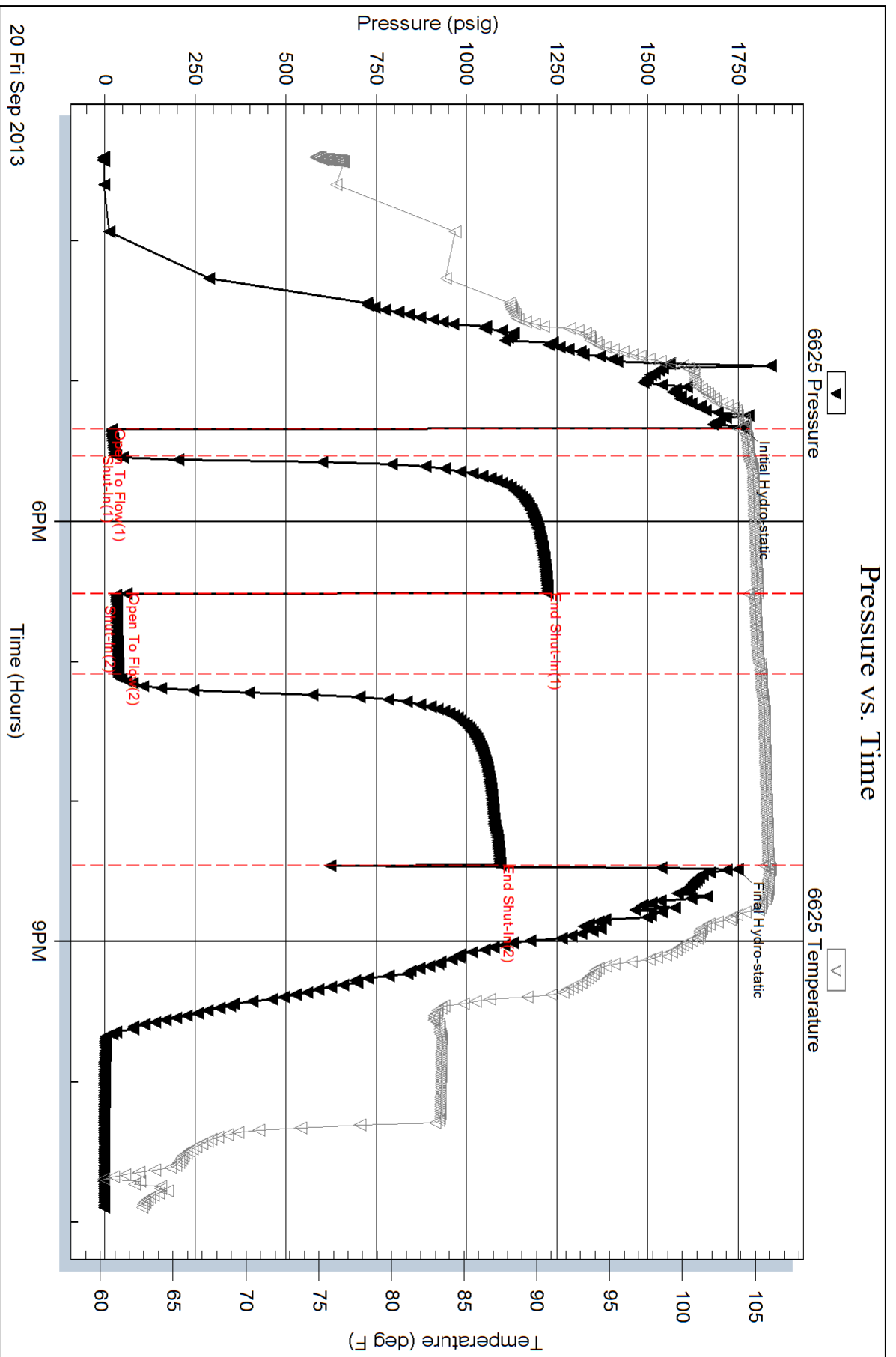
Laboratory Name:

Laboratory Location:

Recovery Comments: 2000 ML of fluid 240 PSI

800 ML of mud

1200 ML of Oil



Serial #: 8167

Fluid

Samuel Gary Jr & Associates Inc

Dinkel 1-26

DST Test Number: 1



Serial #: 8736

Below (Stratton) Gary Jr & Associates Inc

Dinkel 1-26

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 041769

Printed: 2013.09.21 @ 00:41:55



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

Well Name: Dinkel 1-26  
 Location: Sec. 26-14s-17w, Ellis County, Kansas  
 License Number: 15-051-26601  
 Spud Date: 9/15/2013  
 Surface Coordinates: 2040'FsL, 845' FwL  
 Region: Wildcat  
 Drilling Completed: 9/20/2013

Bottom Hole Coordinates:  
 Ground Elevation (ft): 1955' K.B. Elevation (ft): 1963'  
 Logged Interval (ft): 1800' To: 3625' Total Depth (ft): 3625'  
 Formation:  
 Type of Drilling Fluid:

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

**OPERATOR**

Company: Samuel Gary Jr. & Assoc.  
 Address: 1515 Wynkoop, Ste. # 700  
 Denver, Colo. 80202  
 Geo: Chris Mitchell

**GEOLOGIST**

Name: Jeff Quimby  
 Company: Earth Tech OGL, Inc.  
 Address: PO Box 683  
 Hooker, Okla . 73945  
 Off. 888-543-8378 Cell: (580)754-0411

**DST's Report**

DST #1 3485'-3500' 10 60 35 80  
 IF- WK BLO BUILT TO 1 1/4" / ISI- DEAD NB/ FF-WK BLO BUILT TO 1 1/2" / FSI- DED NB  
 IH-1765/ IF- 20 TO 31/ISI-1224/IS-59 TO 37/ FSI-1093/FH-1748  
 REC.-42' OCM 10%O 90%M/ 8' FREE OIL 100%O  
 SAMP.REC.-OIL 1200ML, MUD 800ML, 240PSI,  
 TOTAL 2000ML

**DST's Report**

**DST's Report**

**ROCK TYPES**

Anhy  
 Bent  
 Brec  
 Cht  
 Clyst  
 Coal  
 Congl  
 Dol

Gyp  
 Igne  
 Lmst  
 Meta  
 Mrlst  
 Salt  
 Shale  
 Shcol

Shgy  
 Slst  
 Ss  
 Till  
 Carb sh  
 Dol  
 Dtd  
 Gry sh

Sandylms  
 Shale  
 Slstn  
 Shlyslts  
 Sltysh  
 Lms



**ACCESSORIES**

**MINERAL**

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Silty

**FOSSIL**

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram

- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

**STRINGER**

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh

- Clystn
- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

**TEXTURE**

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

**OTHER SYMBOLS**

**POROSITY TYPE**

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint
- Vuggy

**SORTING**

- Well
- Moderate
- Poor

**ROUNDING**

- Rounded
- Subrnd
- Subang

- Angular

**OIL SHOWS**

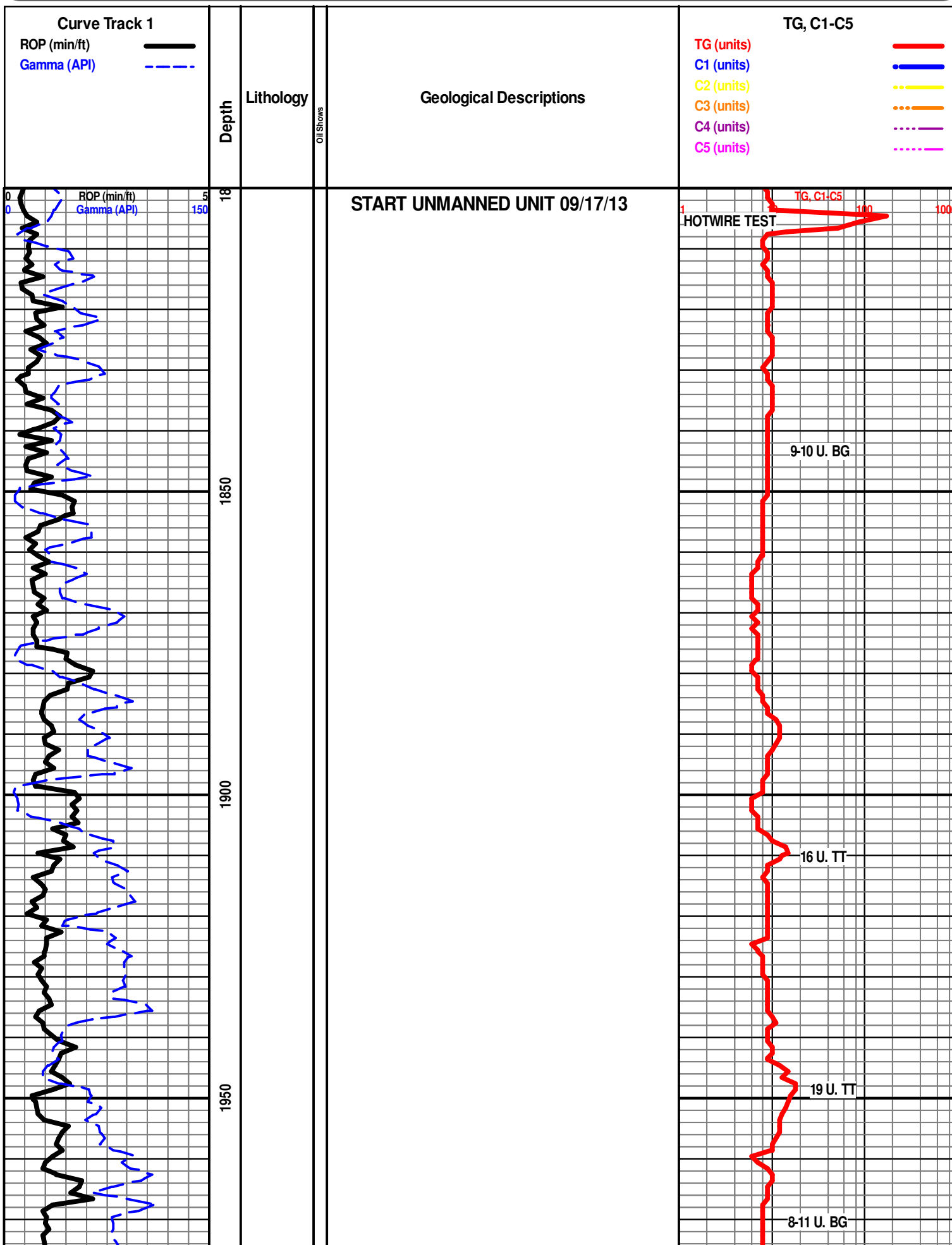
- Even
- Spotted
- Ques
- Dead
- Gas show

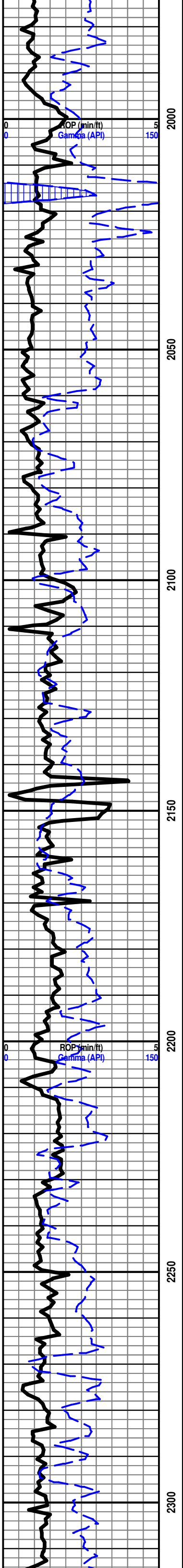
**INTERVALS**

- Core
- Dst
- Dst

**EVENTS**

- Rft
- Sidewall





2000

2050

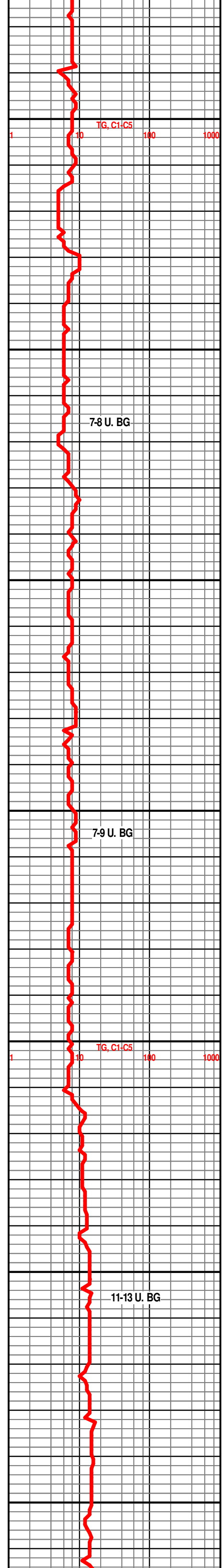
2100

2150

2200

2250

2300

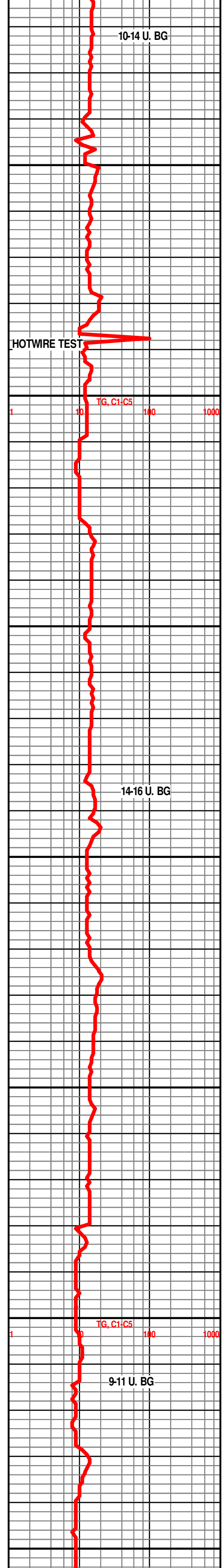
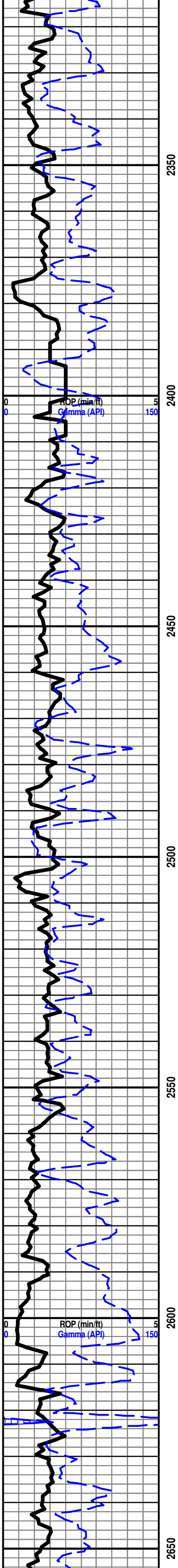


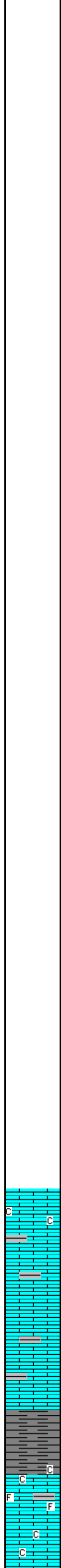
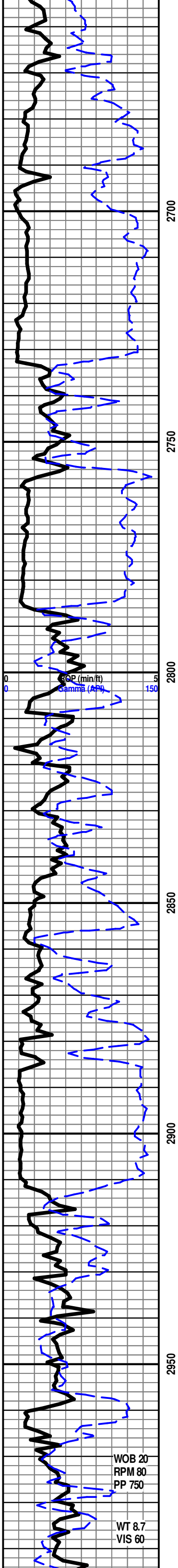
TG, C1-C5

7-8 U. BG

7-9 U. BG

11-13 U. BG





**BASE ROOT SHALE 2733' - 770'**

**HOWARD 2912' - 949'**  
**START 24 HOUR MANNED UNIT 9/18/13**

LS- OFF WHT TO LT GRY IP, HD DNSE, FN-XLN TO SLI RE-XLN MTRX IP, SCATT IMBD LT GRY SH IP, SLI TRS IMBD WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

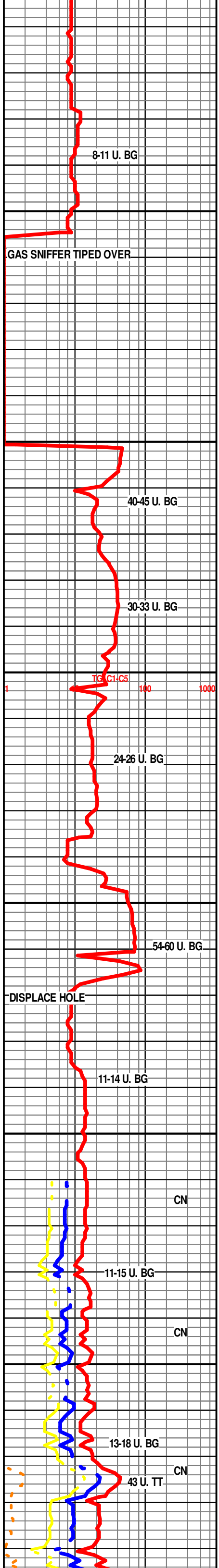
LS- OFF WHT WHT TO SLI LT GRY IP, HD DNSE, FN-XLN SLI RE-XLN MTRX, IMBD LT GRY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**SEVERY 2960' - 1007'**  
 SH- GRY LT GRY, FRM TO SFT BRITT, SLI BLKY TO SPLNTY THRU

**TOPEKA 2974' - 1021'**  
 LS- OFF WHT CRM TO LT GRY IP, HD DNSE TO BRITT, MD-FN-XLN TO FN-XLN SUB-CHLKY IP, SCATT IMBD LT GRY SH, IMBD SMLL FOSS FRGS IP, WHT GMMY CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

WOB 20  
 RPM 80  
 PP 750

WT 8.7  
 VIS 60



GAS SNIFFER TIPPED OVER

8-11 U. BG

40-45 U. BG

30-33 U. BG

TGS C1-C5

24-26 U. BG

54-60 U. BG

DISPLACE HOLE

11-14 U. BG

HOWARD 2912' - 949'

START 24 HOUR MANNED UNIT 9/18/13

CN

LS- OFF WHT TO LT GRY IP, HD DNSE, FN-XLN TO SLI RE-XLN MTRX IP, SCATT IMBD LT GRY SH IP, SLI TRS IMBD WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

11-15 U. BG

LS- OFF WHT WHT TO SLI LT GRY IP, HD DNSE, FN-XLN SLI RE-XLN MTRX, IMBD LT GRY SH, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

CN

SEVERY 2960' - 1007'

SH- GRY LT GRY, FRM TO SFT BRITT, SLI BLKY TO SPLNTY THRU

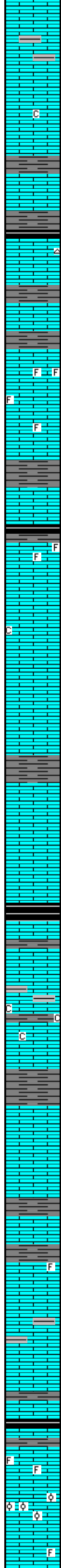
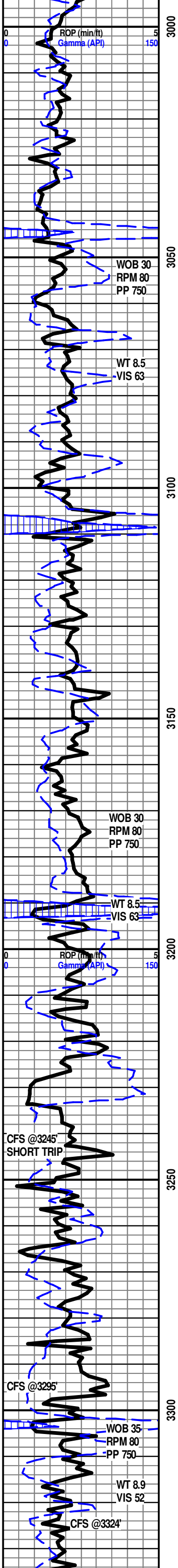
13-18 U. BG

TOPEKA 2974' - 1021'

LS- OFF WHT CRM TO LT GRY IP, HD DNSE TO BRITT, MD-FN-XLN TO FN-XLN SUB-CHLKY IP, SCATT IMBD LT GRY SH, IMBD SMLL FOSS FRGS IP, WHT GMMY CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

43 U. TT

CN



LS- OFF WHT TO LT GRY MOTTED, HD DNSE, MD-FN-XLN, IMBD LT GRY SH IP, WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- LT GRY CRM, HD DNSE, MD-FN-XLN, IMBD LT GRY SH, TRS IMBD WHT CHLK, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY LT GRY, SFT TO FRM BRITT, SPLNTY TO BLKY IP

LS- OFF WHT WHT TO SLI LT GRY IP, HD DNSE, FN-XLN TO V/ FN-XLN, TRS IMBD PYR, LT GRY CHRT IN TRAY, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

**LE COMPTON 3066' -1103'**

LS- OFF WHT WHT, HD DNSE, FN-XLN, ABTD IMBD FOSS FRGS, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY MD GRY, FRM BRITT, SMTH BLKY

LS- OFF WHT WHT, HD DNSE, FN-XLN V/ FN-XLN, IMBD SMLL FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT CRM TO LT GRY IP, HD DSNSE SLI BRITT IP, FN-XLN, SLI RE-XLN, SUB-CHLKY IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY LT GRY, FRM TO SLI BRITT IP, BLKY

LS- WHT CRM BFF, HD DNSE, FN-XLN IMBD CALC XLS IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**HEEBNER 3192' -1229'**

LS- CRM MOTTED LT GRY, HD DNSE TO BRITT, FN-XLN, SCATT IMBD LT GRY SH, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT WHT (W/ DOS ON 20%), HD DNSE TO BRIT, MD-FN-XLN SUB-CHLKY MTRX IP, IMBD SFT WHT CHLK IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

**DOUGLAS 3228' -1265'**

**LANSING 3235' -1272'**

LS- OFF WHT WHT TO LT TN IP (W/ LT TN OIL STAIN ON 30% TO DRK TN OIL STAIN ON 5%), HD TO BRITT, MD-XLN, SUB-SUCRO MTRX IP, CALC XLS IP, BRIT YEL GLD FLO IN 60%, TRS SMLL INTER XLN POR, GL FLUSH CUT, FR TO GD SLW STRM CUT IN 45%, FR OIL ODOR

**LANSING "C" 3260' -1297'**

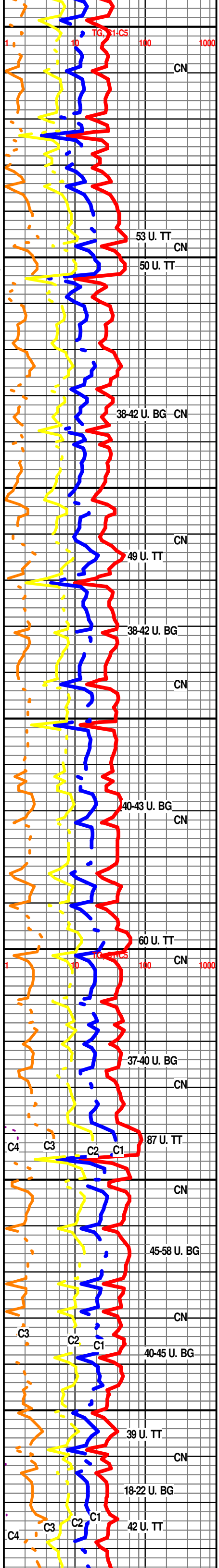
SH- GRY MD GRY, SFT BRITT, SPLNTY TO SMTH BLKY IP

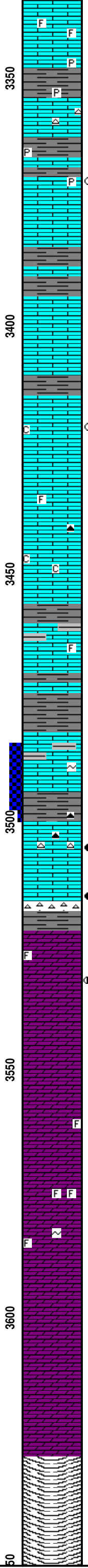
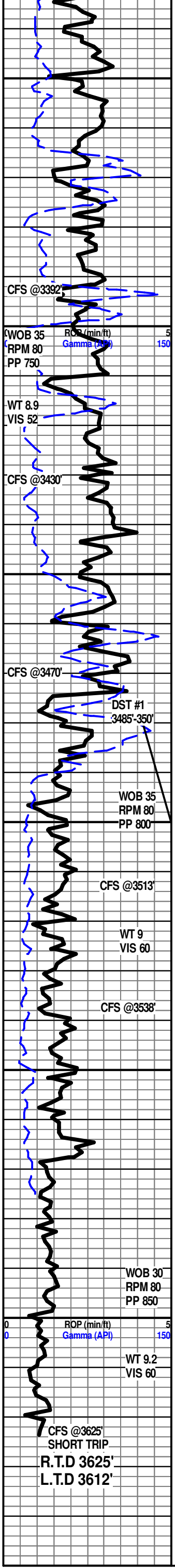
LS- OFF WHT CRM TO MOTTED LT GRY IP (W/ DRK TN OIL STAIN ON 20%), HD DNSE TO BRITT IP, MD-FN-XLN FN-XLN IP, RE-XLN MTRX, IMBD SMLL FOSS FRGS IP, IMBD LT GRY SH IP, IMBD CALC XLS IP, DLL YEL GLD FLO, INTER XLN POR IP, FR FLUSH CUT, GD SLW STRM CUT IN 35%

SH- DRK GRY TO BLK, SFT BRITT, SPLNTY, BLK CARB IN TRAY

**LANSING "F" 3309' -1346'**

3318'-3324' LS- OFF WHT WHT (W/ LT TN OIL STAIN ON 25% TRS DOS ON 5%), HD TO BRITT, FN-XLN, ABTD IMBD SMLL OOL, TRS IMBD FOSS FRGS IP, DLL YEL FLO, SCATT INTER OOL POR, PR TO FR FLUSH CUT, GD SLW STRM CUT IN 35%





LS- OFF WHT WHT CRM TO LT TN, HD DNSE TO BRITT IP, FN-XLN, RE-XLN MTRX IP, IMBD FOSS FRGS IP, PYR IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY MD GRY, FRM TO SFT BRITT, SPLNTY, IMBD PYR IP

LS- WHT CRM, HD DNSE, FN-XLN TO V/ FN-XLN, LT GRY OFF WHT CHRT IN TRAY, TRS IMBD PYR IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

**LASNSING "H" 3362' -1399'**

3368'-3373' LS- LT GRY OFF WHT TO TN (W/ TN TO DRK TN OIL STAIN ON 15%), HD DNSE, FN-XLN, SLI RE-XLN MTRX, IMBD PYR IP, SCATT BRIT YEL GLD FLO IP, TRS MICRO PP POR, FR FLUSH CUT, GD SLW STRM CUT IN 10%, FR OIL ODOR

LS- OFF WHT WHT, HD DNSE TO BRITT I, V/FN-XLN TO FN-XLN, SLI SUB-SUCRO IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

SH- GRY, FRM TO BRITT IP, SPLNTY TO SMTH BLKY

LS- WHT CRM TO LT TN (W/ TRS LT TN OIL STAIN ON 10%), HD DNSE, FN-XLN TO SLI MD-FN-XLN, SUB-CHLKY IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- WHT OFF WHT, HD DNSE TO BRITT IP, FN-XLN TO MD-FN-XLN, SUB-CHLKY IP, IMBD SFT WHT CHLK IP, TRS IMBD FOSS FRGS IP, CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

LS- OFF WHT CRM TO TN, HD DNSE, FN-XLN, SUB-SUCRO IP, IMBD LT GRY SH IP, TRS IMBD FOSS FRGS IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

**BKC 3470' -1507'**

SH- GRY TO RED, SFT BRITT, BLKY TO SMTH BLKY

LS- OFF WHT CRM, HD DNSE, FN-XLN RE-XLN MTRX, IMBD DRK GRY SH IP, IMBD GLUAC IP, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

3500'-3510' LS- OFF WHT WHT (W/ DRK BRWN TO TN OIL STAIN ON 50%), HD DNSE TO BRITT IP, CRS SUCRO MTRX THRU, SCATT IMBD SMLL SUB-RND GRNS THRU, SCATT TN CHRT IN TRAY, DLL YEL GLD THRU, VIS INTER XLN POR ON 45% (W/ DRK BRWN TO TN OIL STAIN), EXCEL MILKY BLUE FLUSH CUT THRU, GD SLW STRM CUT IN 50%, GD OIL ODOR, BRWN TO DRK BRWN LEECH ON DISH

3515'-3519' LS- BRWN (W/ BRWN OIL STAIN ON 100%), HD TO BRITT, MD-FN-XLN, TRS SUCRO MTRX IP, YEL GLD FLO THRU, MICRO PP POR, V/ GD FLUSH CUT, GD SLW STRM CUT IN 80%, FREE FLOATING OIL IN SAMPLE WATER

**ARBUCKLE 3523' -1560'**

DOL- WHT (W/ DRK BRWN OIL STAIN ON 30%), HD DNSE, MD-XLN TO CRS SUCRO MTRX, TRS IMBD FOSS FRGS IP, YEL GLD FLO IP, INTER XLN POR ON 40%, GD FLUSH CUT GD TO V/ GD SLW STRM CUT IN 60%, GD OIL ODOR, BRWN LEECH ON DISH, FREE FLOATING OIL IN SAMPLE WATER

DOL- WHT OFF WHT SLI LT GRY (W/ DOS ON 5%), HD DNSE, MD-XLN TO V/ CRS SUCRO, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- OFF WHT WHT, HD DNSE, FN-XLN TO SLI CRS SUCRO IP, ABDT IMBD FOSS FRGS THRU IP, IMBD GLAUC IP, DLL YEL FLO, NO VIS POR, NO VIS CUT OR SHOW

DOL- WHT OFF WHT IP, HD DNSE, FN-MD-XLN V/ FN-XLN, NO VIS FLO, NO VIS POR, NO VIS CUT OR SHOW

