



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1234916
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 Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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: _____

1234916

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

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <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 Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |
|-----------------------------------|-----------|---------|-------------|---------------|---------|
| | | | | | |

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

| | |
|-----------|------------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Samuel Gary Jr. & Associates, Inc. |
| Well Name | WAGONER 1-2 |
| Doc ID | 1234916 |

All Electric Logs Run

| |
|-----------|
| |
| DEN-NEUT |
| INDUCTION |
| MICRO |
| SONIC |
| SPECTRAL |

| | |
|-----------|------------------------------------|
| Form | ACO1 - Well Completion |
| Operator | Samuel Gary Jr. & Associates, Inc. |
| Well Name | WAGONER 1-2 |
| Doc ID | 1234916 |

Perforations

| Shots Per Foot | Perforation Record | Material Record | Depth |
|----------------|--------------------|------------------------------|-------------|
| 4 | 3538-3546 | 250 GAL 28% MCA W/ 3% MAS | 3538-3546 |
| 4 | 3553-3554.5 | 6 BBLS 28% MCA W/ 3% MAS | 3553-3554.5 |
| 4 | 3564.5-3567 | | 3564.5-3567 |
| 4 | 3570-3572 | | 3570-3572 |
| 4 | 3582-3584 | 250 GAL 28% MCA W/ 3% MAS | 3582-3584 |
| 4 | 3608-3611 | 250 GAL 28% MCA W/ 3% MAS | 3608-3611 |
| 4 | 3651-3653 | | 3651-3653 |
| 4 | 3681-3684 | 250 GAL 28% MCA W/ 3% MAS | 3681-3684 |



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: 8/23/2014
 Invoice # 542
 P.O.#:
 Due Date: 9/22/2014
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

RECEIVED

AUG 29 2014

Reference:
 wagner 1-2

**SAMUEL GARY JR.
 & ASSOCIATES, INC.**

Description of Work:
 LONG SURFACE JOB

DRLG COMP W/O LOE GG

| | |
|---------------|------------------|
| Account | 8200.138 |
| Well/Prospect | |
| Deck | |
| AFE | |
| Approval | See field ticket |
| Description | |

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|--|----------|-------------|---------|------|----------|-------|---------|
| Labor | | \$ 1,530.82 | No | | | | |
| Common-Class A | 300 | \$ 5,029.41 | Yes | | | | |
| Calcium Chloride | 11 | \$ 684.29 | Yes | | | | |
| Bulk Truck Matl-Material Service Charge | 317 | \$ 708.59 | No | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 56 | \$ 624.63 | No | | | | |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 56 | \$ 365.52 | No | | | | |
| Flo Seal | 150 | \$ 335.29 | Yes | | | | |
| 8 5/8" Top Rubber Plug | 1 | \$ 118.47 | Yes | | | | |
| Premium Gel (Bentonite) | 6 | \$ 109.17 | Yes | | | | |
| Baffle Plate Aluminum, 8 5/8" | 1 | \$ 100.59 | Yes | | | | |
| 8 5/8" Centralizer | 1 | \$ 71.53 | Yes | | | | |

Invoice Terms:

Net 30

SubTotal: \$ 9,678.31
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,451.75)

| | |
|---------------------------------|--------------------|
| SubTotal for Taxable Items: | \$ 5,481.44 |
| SubTotal for Non-Taxable Items: | \$ 2,745.12 |
| Total: | \$ 8,226.56 |
| Tax: | \$ 378.22 |

6.90% Norton County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,604.78
Applied Payments:
Balance Due: \$ 8,604.78

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 542

| | | | | | | | | | | | | | | | |
|------|---------|------|---|------|---|-------|----|--------|--------|-------|----|-------------|--|--------|---------|
| Date | 8-23-14 | Sec. | 2 | Twp. | 5 | Range | 24 | County | Norton | State | KS | On Location | | Finish | 6:45 AM |
|------|---------|------|---|------|---|-------|----|--------|--------|-------|----|-------------|--|--------|---------|

Location Lenora 2 N 5/4 E Sinto

Lease Wagoner Well No. 1-2 Owner

Contractor Discovery #4 To Quality Oilwell Cementing, Inc.
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 Wary Jr.

Hole Size 12 1/4 T.D. 600' Street

Csg. 8 5/8 Depth 600' City State

Tbg. Size Depth The above was done to satisfaction and supervision of owner agent or contractor.

Tool Depth Cement Amount Ordered 300 com 3 1/2 cc 2 1/2 Gel

Cement Left in Csg. 42.18 Shoe Joint 42.13

Meas Line Displace 25 1/2 bbl 1/2 Flo

EQUIPMENT Common 300

| | | | |
|----------------------|---------------------|--|----------|
| Pumptrk <u>5</u> No. | Cementer | | Poz. Mix |
| | Helper <u>David</u> | | |

| | | | |
|-----------------------|--------------------|--|---------------|
| Bulktrk <u>19</u> No. | Driver | | Gel. <u>6</u> |
| | Driver <u>Chad</u> | | |

| | | | |
|-----------------------|---------------------|--|-------------------|
| Bulktrk <u>PU</u> No. | Driver | | Calcium <u>11</u> |
| | Driver <u>Brett</u> | | |

JOB SERVICES & REMARKS Halls

Remarks: Salt

Rat Hole Flowseal 150 #

Mouse Hole Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar Sand

Circulated good cement Handling 317

Mileage 8 5/8 **FLOAT EQUIPMENT**

Guide Shoe

Centralizer 6

Baskets

AFU Inserts

Float Shoe


Latch Down

Baffle Plate-1

Rubber Plug-1

Pumptrk Charge Long Surface

Mileage 56

Signature 

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: 8/29/2014
 Invoice # 290
 P.O.#:
 Due Date: 9/28/2014
 Division: Russell

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

RECEIVED

SEP 08 2014

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Reference:
 WAGONER 1-2

Description of Work:
 PROD STRING TOP STAGE

DRLG COMP W/O LOE GG

| | |
|---------------|------------------|
| Account | 8200.138 |
| Well/Prospect | |
| Deck | |
| AFE | |
| Approval | See field ticket |
| Description | |

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|---|----------|-------------|---------|------|----------|-------|---------|
| Labor | | \$ 991.39 | No | | | | |
| mon, MetsoBeads, Plater, Gel, FloSeal, Calcium) | 425 | \$ 8,822.51 | Yes | | | | |
| Bulk Truck Matl-Material Service Charge | 425 | \$ 922.86 | No | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 56 | \$ 606.78 | No | | | | |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 56 | \$ 355.07 | No | | | | |
| Flo Seal | 106 | \$ 230.17 | Yes | | | | |

Invoice Terms:

Net 30

SubTotal: \$ 11,928.79
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (1,789.32)

| | |
|---------------------------------|-------------|
| SubTotal for Taxable Items: | \$ 7,694.78 |
| SubTotal for Non-Taxable Items: | \$ 2,444.69 |

6.90% Norton County Sales Tax

Thank You For Your Business!

Total: \$ 10,139.47
 Tax: \$ 530.94
Amount Due: \$ 10,670.41
Applied Payments:
Balance Due: \$ 10,670.41

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 290

| | | | | | | | |
|--------------|--------|--------|----------|---------------|----------|-------------|----------------|
| Date 8-29-14 | Sec. 2 | Twp. 5 | Range 24 | County Norton | State KS | On Location | Finish 10:00PM |
|--------------|--------|--------|----------|---------------|----------|-------------|----------------|

Location Lenora, 2N, 5E, S2

| | | |
|-------------------------|-------------------|--|
| Lease Wagner | Well No. 1-2 | Owner |
| Contractor Discovery #4 | | To Quality Oilwell Cementing, Inc. 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 Top Stage | | |
| Hole Size 7 7/8 | T.D. 3970 | Charge To Sam Gary Jr & Associates |
| Csg. 5 1/2 15.5 # | Depth 3852.78 | Street |
| Tbg. Size | Depth | City State |
| Tool DV | Depth 2004 | The above was done to satisfaction and supervision of owner agent or contractor. |
| Cement Left in Csg. | Shoe Joint | Cement Amount Ordered 425 SX QMDC 1/4 # Flo |
| Meas Line | Displace 47.69661 | used 415 |

EQUIPMENT

| | | |
|----------------|------------------|---------------|
| Pumptrk 17 No. | Cementer | Common |
| | Helper Lonnie W. | 425 QMDC. 415 |
| Bulktrk 21 No. | Driver | Poz. Mix |
| | Driver Tyler | Gel. |
| Bulktrk PU No. | Driver | Calcium |
| | Driver Travis | |

JOB SERVICES & REMARKS

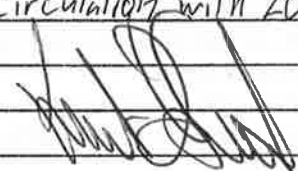
| | |
|---|-------------------------|
| Remarks: | Hulls |
| Rat Hole 30sx | Salt |
| Mouse Hole 20sx | Flowseal 106 # |
| Centralizers | Kol-Seal |
| Baskets | Mud CLR 48 |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |
| Opened tool brake circulation. Plugged Rat hole with 30sx and Mouse hole with 20sx. Hooped to 5 1/2 and mixed 385sx QMDC 1/4 # Flow. Shut down washed pump and lines. Released Plug and displaced with 47 1/2 bbl fw. Plug landed and held. | Sand |
| lift pressure 600 psi | Handling 425 |
| | Mileage |

FLOAT EQUIPMENT

| | |
|--|-------------|
| | Guide Shoe |
| | Centralizer |
| | Baskets |
| | AFU Inserts |
| | Float Shoe |
| | Latch Down |

Plug landed and held at 1500 psi

lost circulation with 20 bbl of displacement left.

X Signature 

| | | |
|----------------|-------------|--------------|
| Pumptrk Charge | prod string | Tax |
| Mileage 56 | | Discount |
| | | Total Charge |

Top Stage



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: 8/29/2014
 Invoice # 289

P.O.#:

Due Date: 9/28/2014

Division: Russell

RECEIVED

SEP 08 2014

SAMUEL GARY JR.
 & ASSOCIATES, INC.

Invoice

Contact:
 Samuel Gary Jr & Associates Inc
Address/Job Location:
 Samuel Gary Jr & Associates Inc
 1935 LOUIE ROAD
 HAYS KANSAS 67601

Reference:
 WAGONER 1-2

Description of Work:
 PROD STRING BOTTOM STAGE

DRLG COMP W/O LOE GG

| | |
|---------------|------------------|
| Account | 8200.138 |
| Well/Prospect | |
| Deck | |
| AFE | |
| Approval | Use field ticket |
| Description | 0 |

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|---|----------|-------------|---------|--|----------|----------|---------|
| Labor | | \$ 991.39 | No | Mud Clear | 500 | \$401.71 | Yes |
| Two Stage Cement Collar, 5 1/2" | 1 | \$ 3,886.86 | Yes | Defoamer A or CAF-38 | 50 | \$380.00 | Yes |
| Common-Class A | 225 | \$ 3,664.29 | Yes | Bulk Truck Mileage-Job to Nearest Bulk Plant | 56 | \$355.07 | No |
| Gilsonite | 1057 | \$ 1,721.40 | Yes | Salt (Fine) | 19 | \$287.97 | Yes |
| 5 1/2" Basket | 4 | \$ 1,493.94 | Yes | Latch Down Plug & Baffle, 5 1/2" | 1 | \$243.20 | Yes |
| CFL 117 | 176 | \$ 1,177.09 | Yes | Flo Seal | 56 | \$121.60 | Yes |
| Cementing Shoe Basket Type, 5 1/2" | 1 | \$ 1,144.34 | Yes | KCL | 2 | \$64.84 | Yes |
| 5 1/2" Turbolizer | 15 | \$ 944.57 | Yes | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 56 | \$ 606.78 | No | | | | |
| Bulk Truck Matl-Material Service Charge | 254 | \$ 551.54 | No | | | | |
| CD-110 | 117 | \$ 508.11 | Yes | | | | |

Invoice Terms:

Net 30

| | | |
|--|-----------|------------------|
| SubTotal: | \$ | 18,544.72 |
| Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice: | \$ | (2,781.71) |
| SubTotal for Taxable Items: | \$ | 13,633.94 |
| SubTotal for Non-Taxable Items: | \$ | 2,129.07 |
| Total: | \$ | 15,763.01 |
| Tax: | \$ | 940.74 |
| Amount Due: | \$ | 16,703.75 |
| Applied Payments: | | |
| Balance Due: | \$ | 16,703.75 |

6.90% Norton County Sales Tax

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 289

| | | | | | | | | | | | | | |
|------|---------|------|---|------|---|-------|----|--------|--------|-------|----|-------------|-------------------|
| Date | 8-29-14 | Sec. | 2 | Twp. | 5 | Range | 24 | County | Norton | State | KS | On Location | Finish 7:00 PM |
|------|---------|------|---|------|---|-------|----|--------|--------|-------|----|-------------|-------------------|

Location *Lenora, 2N, 5&E, S&Z*

| | | | |
|--------------------------------|---------------------------|--|--|
| Lease <i>Wagoner</i> | Well No. <i>1-2</i> | Owner | To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. |
| Contractor <i>Discovery #4</i> | | Charge To | <i>Sam Gary Jr & Associates</i> |
| Type Job <i>bottom stage</i> | | Street | |
| Hole Size <i>7 7/8</i> | T.D. <i>3970</i> | City | State |
| Csg. <i>5 1/2 15.5 #</i> | Depth <i>3852.78</i> | The above was done to satisfaction and supervision of owner agent or contractor. | |
| Tbg. Size | Depth | Cement Amount Ordered <i>225 sx Q ProC, 10% salt,</i> | |
| Tool <i>DV</i> | Depth <i>2004</i> | <i>5% Gilonite, 1/4 #F10, 3% CD-110, 8% CFL-117, 25% Caf 38</i> | |
| Cement Left in Csg. | Shoe Joint <i>42.10</i> | Common <i>225</i> | |
| Meas Line | Displace <i>90.69 bbl</i> | Poz. Mix | |

EQUIPMENT

| | | | |
|-------------------|-----|-----------------------|--|
| Pumptrk <i>17</i> | No. | Cementer | |
| | | Helper <i>Lonnlew</i> | |
| Bulktrk <i>9</i> | No. | Driver | |
| | | Driver <i>Tylor</i> | |
| Bulktrk <i>P4</i> | No. | Driver | |
| | | Driver <i>Travis</i> | |

JOB SERVICES & REMARKS

Remarks:
Rat Hole
Mouse Hole
Centralizers *1-15, 47*
Baskets *2, 44, 55, 61*
D/V or ~~Best Collar~~ *top of #45 at 2004*
Pipe on bottom broke circulation. Pumped 500 gal Mud CLR-48 with 10 bbl fw behind it. Mixed 225 sx shutdown and washed pump and lines. Released plug and displaced with 45 bbl fw, 36 bbl Mud, 9.6 bbl fw. Plug landed and held.


Gel.
Calcium *CD 110 112 #*
Hets *RCL 2 gal*
Salt *19*
Flowseal *56*
Kol-Seal *1057*
Mud CLR 48 *500 gal*
CFL-117 or CD110, CAF 38 - 50 #
Sand *176 #*
Handling *254*
Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer *15 turbos, 1 Reg.*
Baskets *4 Red*
AFU Inserts
Float Shoe
Latch Down *1*
1 Triplex shoe with ball
1 DV tool
Pumptrk Charge *prod string*
Mileage *56*

Bottom Stage

lift pressure 900 psi
Plug landed at 1500 psi

X
Signature 

Tax
Discount
Total Charge



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

Sec. 2 - 5 s. - 24 w./ Norton

1515 Wynkoop Suite 700
Denver Co.
80202
ATTN: Dan Pritchard

Wagoner #1-2

Job Ticket: 60499

DST#: 1

Test Start: 2014.08.26 @ 16:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 60.00 sec/qt

Water Loss: 8.79 in³

Resistivity: 0.00 ohm.m

Salinity: 750.00 ppm

Filter Cake: 1.00 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 ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 120.00 | S,O,S,M 5%O 95%M | 1.410 |
| 30.00 | EMULSIFIED MUDDY OIL | 0.421 |

Total Length: 150.00 ft Total Volume: 1.831 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

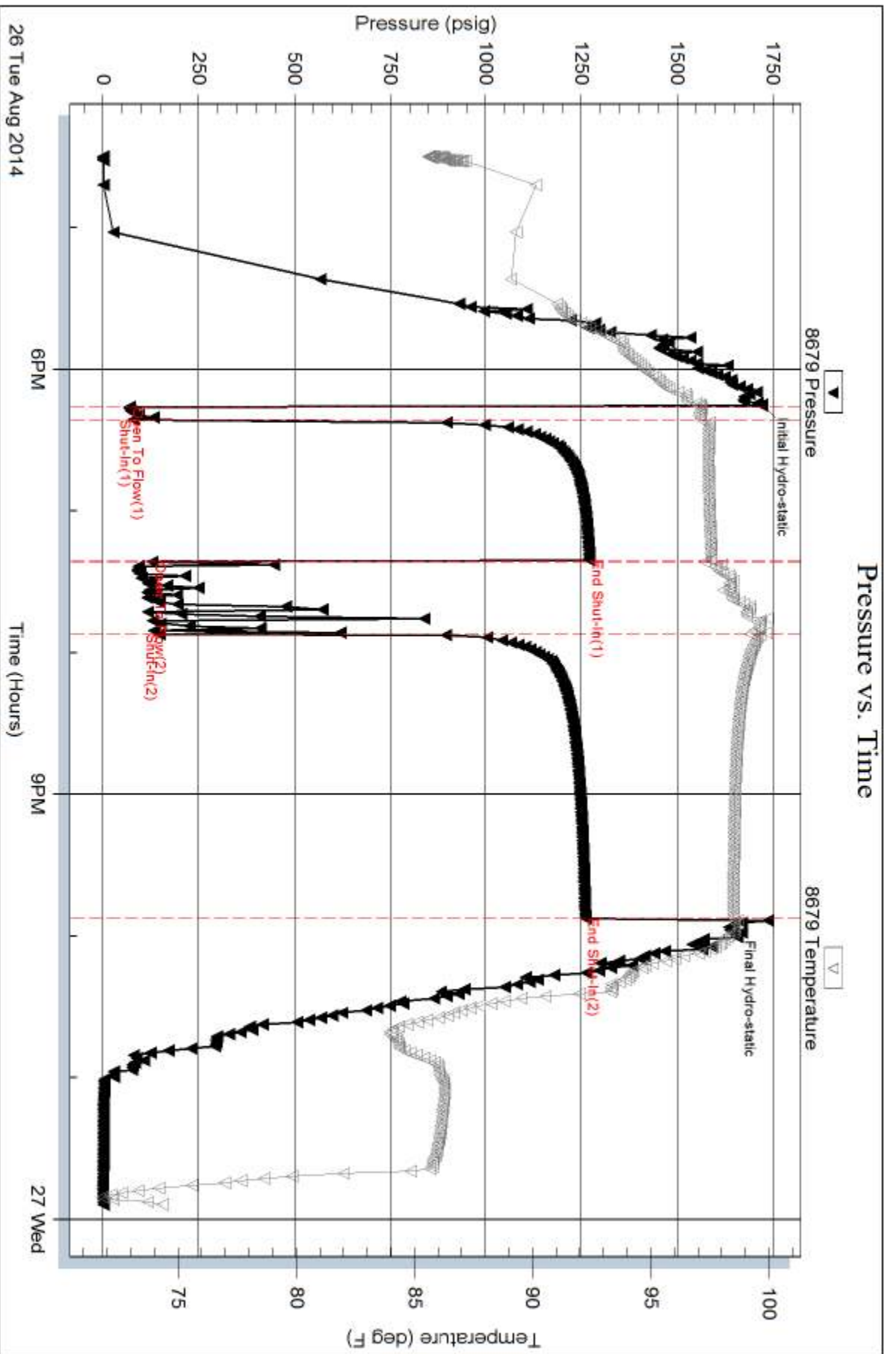
Laboratory Name:

Laboratory Location:

Recovery Comments: Sampler Recovery

OIL 500 M.L. / MUD 1,500 M.L. / 200 P.S.I.

TOTAL 2,000 M.L.



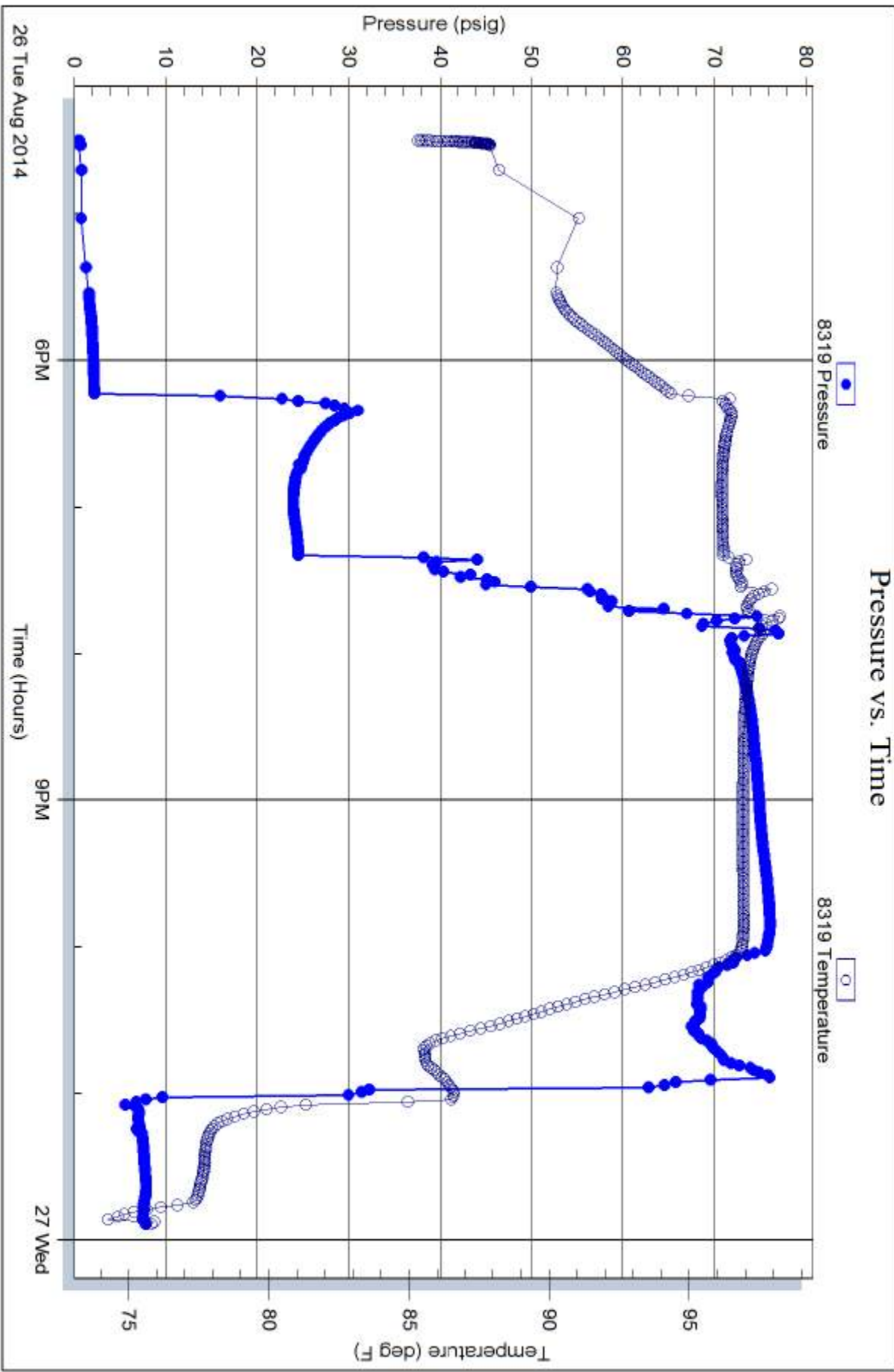
Serial #: 8319

Fluid

Samuel Gary Jr. & Assoc.

Wagoner #1-2

DST Test Number: 1





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.

1515 Wynkoop Suite 700
Denver Co.
80202
ATTN: Dan Pritchard

Sec. 2 - 5 s. - 24 w./ Norton

Wagoner #1-2

Job Ticket: 60500 **DST#: 2**
Test Start: 2014.08.27 @ 08:10:00

GENERAL INFORMATION:

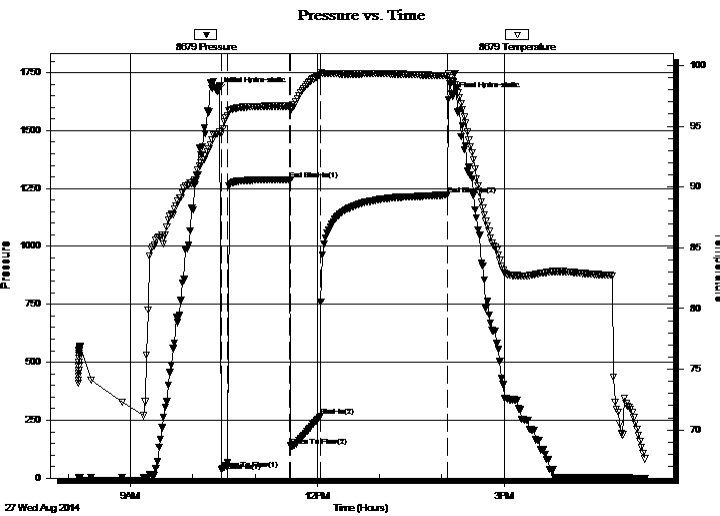
Formation: " B - C"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:27:30
Time Test Ended: 17:16:30
Interval: **3550.00 ft (KB) To 3588.00 ft (KB) (TVD)**
Total Depth: 3588.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Reference Elevations: 2426.00 ft (KB)
2418.00 ft (CF)
KB to GR/CF: 8.00 ft
Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 58

Serial #: 8679

Inside

Press @ Run Depth: 267.71 psig @ 3584.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.27 End Date: 2014.08.27 Last Calib.: 2014.08.27
Start Time: 08:10:01 End Time: 17:16:30 Time On Btm: 2014.08.27 @ 10:24:00
Time Off Btm: 2014.08.27 @ 14:10:30

TEST COMMENT: I.F. - 5 - 1/2" INT. BLOW BUILT TO (4" IN 5 MIN.)
I.S.I - 60 - NO B.B.
F.F. - 30 - 1/2" INT. BLOW BUILT TO (B.O.B. IN 2 MIN.)
F.S.I. - 120 - W.S.B.B. STARTED @ 3 MIN. BUILT TO B.O.B. IN



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1670.09 | 94.40 | Initial Hydro-static |
| 4 | 39.19 | 94.36 | Open To Flow (1) |
| 10 | 66.33 | 95.89 | Shut-In(1) |
| 69 | 1288.91 | 96.64 | End Shut-In(1) |
| 70 | 138.96 | 96.35 | Open To Flow (2) |
| 99 | 267.71 | 99.22 | Shut-In(2) |
| 221 | 1221.95 | 99.14 | End Shut-In(2) |
| 227 | 1648.53 | 98.68 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------------------------|--------------|
| 63.00 | H ₂ O,C,M, 20% O 80% M | 0.61 |
| 693.00 | C/O 100% | 9.72 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Samuel Gary Jr. & Assoc.

Sec. 2 - 5 s. - 24 w./ Norton

1515 Wynkoop Suite 700
Denver Co.
80202
ATTN: Dan Pritchard

Wagoner #1-2

Job Ticket: 60500

DST#: 2

Test Start: 2014.08.27 @ 08:10:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.99 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|-----------------------------------|----------------|
| 63.00 | H ₂ O,C,M, 20% O 80% M | 0.610 |
| 693.00 | C/O 100% | 9.721 |

Total Length: 756.00 ft Total Volume: 10.331 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

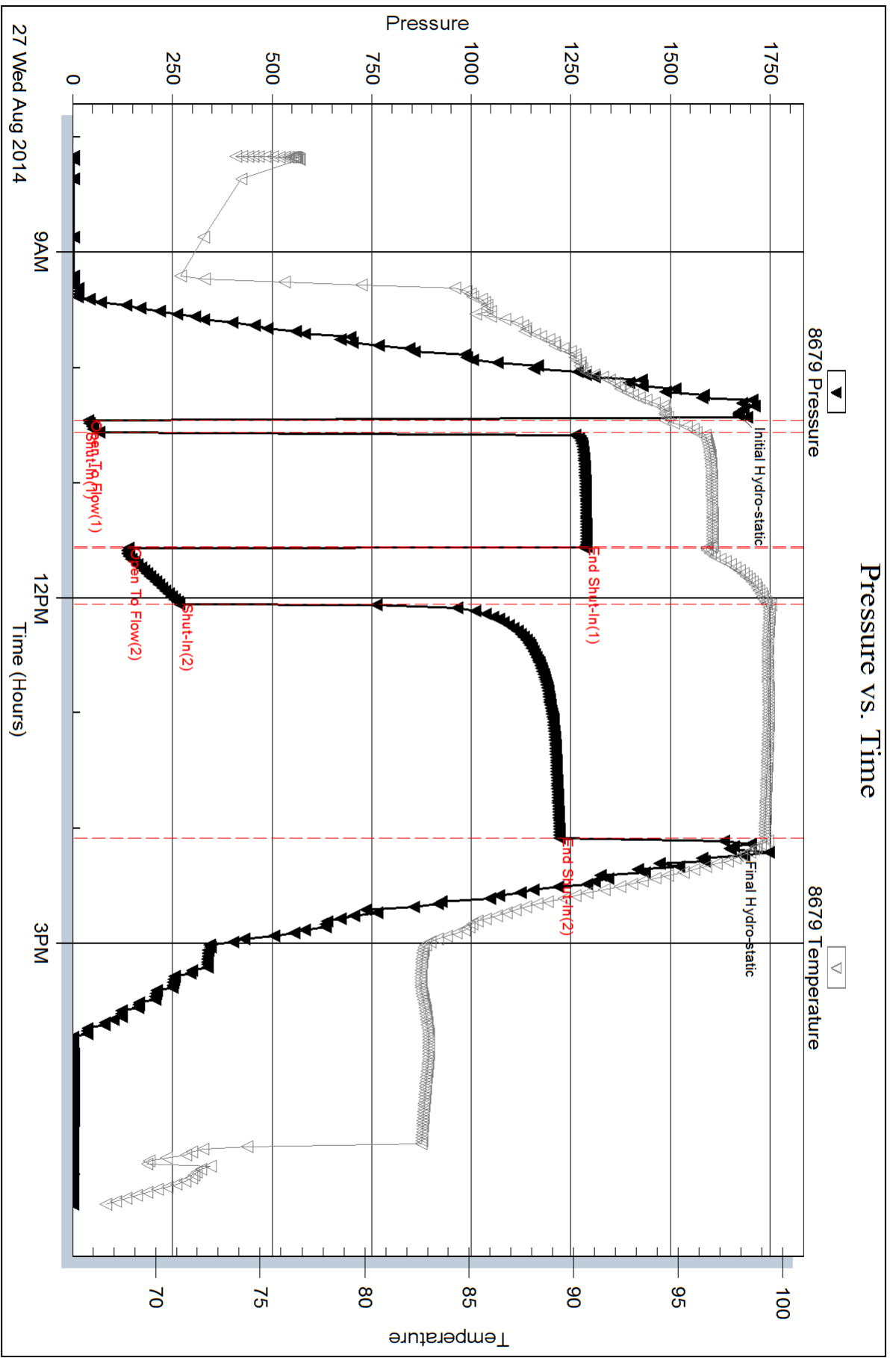
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: "SAMPLER RECOVERY"

" 2,000 M.L. C/O / 300 P.S.I. / GRAVITY 40 "

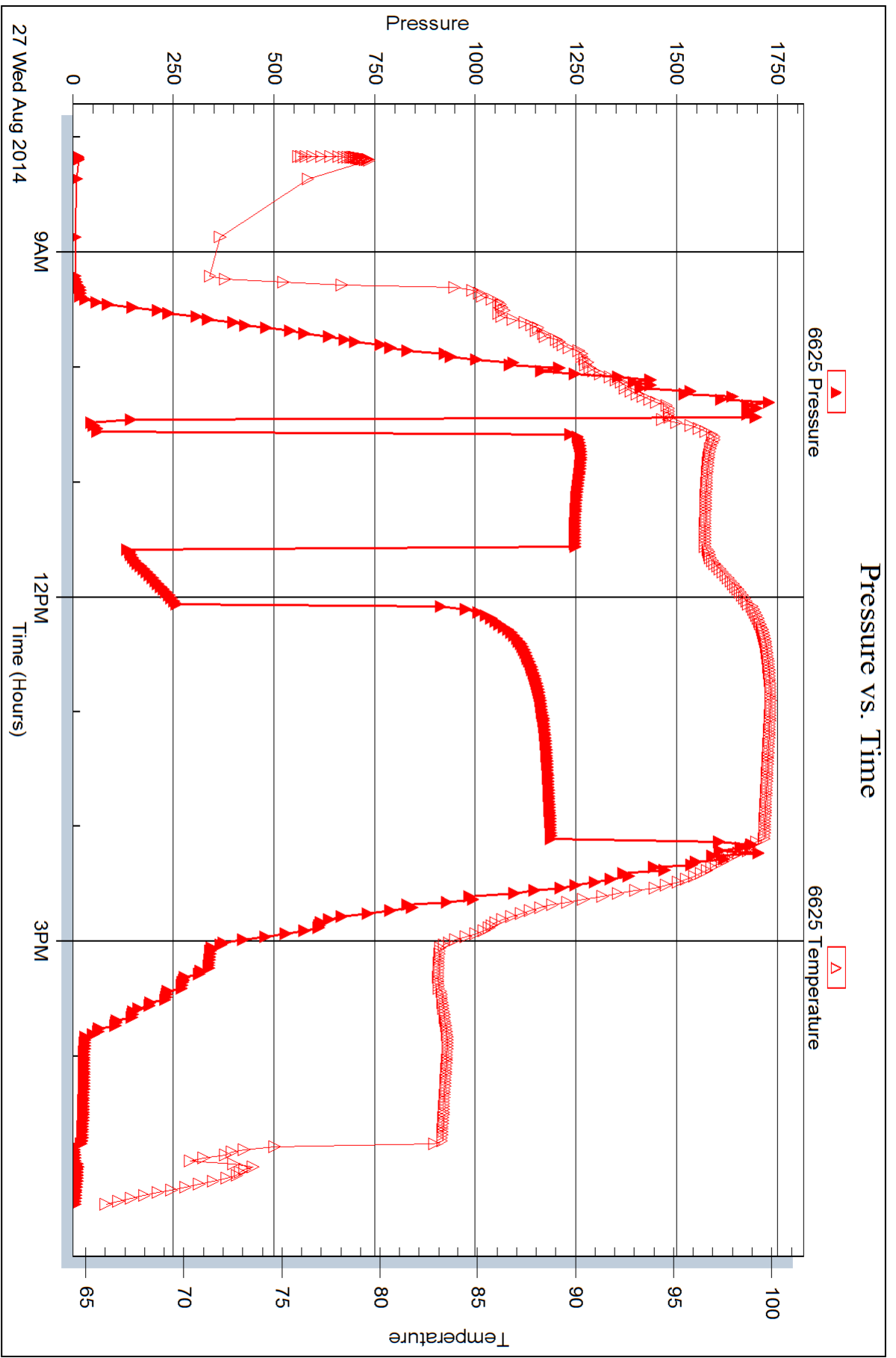


Serial #: 6625

Outside Samuel Gary Jr. & Assoc.

Wagoner #1-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 60500

Printed: 2014.08.27 @ 19:38:45

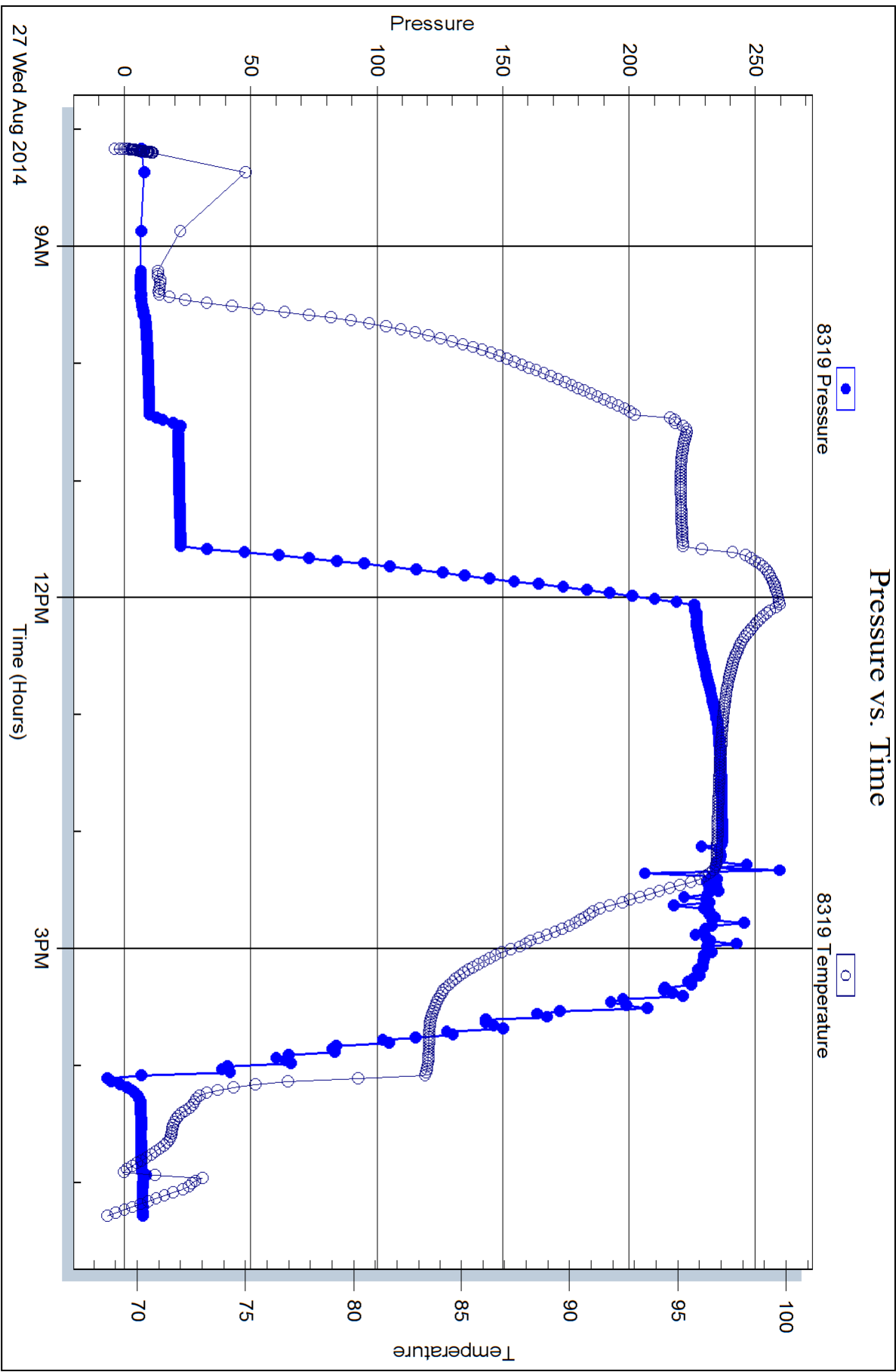
Serial #: 8319

Fluid

Samuel Gary Jr. & Assoc.

Wagoner #1-2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 60500

Printed: 2014.08.27 @ 19:38:45



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

Well Name: Wagoner 1-2
 Location: Sec. 2 5S 24W Norton County, Kansas
 License Number: 15-137-20708-0000
 Spud Date: Aug 22, 2014
 Surface Coordinates: 1720' FNL & 2140' FEL
 Region: Wildcat
 Drilling Completed: Aug 28, 2014

Bottom Hole Coordinates:
 Ground Elevation (ft): 2418' K.B. Elevation (ft): 2426'
 Logged Interval (ft): 3275' To: 3970' Total Depth (ft): 3970'
 Formation:
 Type of Drilling Fluid: Natural Chemical

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

OPERATOR

Company: Samuel Gary Jr & Associates, inc
 Address: 1515 Wynkoop Street, Suite 700
 Denver, Colorado 80202
 Geo: Dan Pritchard

GEOLOGIST

Name: Aaron Suelter
 Company: EARTH TECH OGL, Inc.
 Address: PO Box 683
 Hooker, Okla 73945
 1-580-652-3924
 8918 5Th St
 Great Bend, Ks. 67530
 1-888-543-8378

| | DRILL STEM TEST REPORT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|----------------------|--------------|------------|------------------|---------|-------|----------------------|------|-------|-------|------------------|---|-------|-------|----------------|----|---------|---|----------------|----------------|-----------------|------------------|------------------|----|--------|-------|------------|-----|---------|-------|----------------|-----|---------|-------|--------------------|--|
| | Samuel Gary Jr. & Assoc. 1515 Wynkoop Suite 700 Denver Co. 80202 ATTN: Dan Pritchard | Sec. 2 - 5 s. - 24 w./ Norton Wagoner #1-2 Job Ticket: 60499 DST#: 1 Test Start: 2014.08.26 @ 16:30:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GENERAL INFORMATION: Formation: Toronto - "A" Deviated: No Whipstock: ft (KB) Time Tool Opened: 18:16:00 Time Test Ended: 23:54:00 Interval: 3506.00 ft (KB) To 3552.00 ft (KB) (TVD) Total Depth: 3552.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial) Tester: Bob Hamel Unit No: 58 Reference Elevations: 2426.00 ft (KB) 2418.00 ft (CF) KB to GRVCF: 8.00 ft | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Serial #: 8679 Inside Press@RunDepth: 147.01 psig @ 3543.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.08.26 End Date: 2014.08.26 Last Calib.: 1899.12.30 Start Time: 16:30:01 End Time: 23:54:00 Time On Btm: 2014.08.26 @ 18:15:00 Time Off Btm: 2014.08.26 @ 21:56:30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TEST COMMENT: I.F. - 5 - 1/2" INT. BLOW BUILT TO (3 1/2" IN 5 MIN.) I.S.I. - 60 - NO B.B. F.F. - 30 - 1/4" INT. BLOW BUILT TO (8 1/2" IN 30 MIN.) F.S.I. - 120 - NO B.B. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | PRESSURE SUMMARY | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1721.21</td><td>97.07</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>69.54</td><td>97.04</td><td>Open To Flow (1)</td></tr> <tr><td>7</td><td>79.28</td><td>97.10</td><td>End Shut-in(1)</td></tr> <tr><td>66</td><td>1271.06</td><td>97.57</td><td>End Shut-in(2)</td></tr> <tr><td>67</td><td>129.13</td><td>97.28</td><td>Open To Flow (2)</td></tr> <tr><td>97</td><td>147.01</td><td>99.22</td><td>Shut-in(1)</td></tr> <tr><td>218</td><td>1260.32</td><td>98.50</td><td>End Shut-in(3)</td></tr> <tr><td>222</td><td>1636.05</td><td>98.56</td><td>Final Hydro-static</td></tr> </tbody> </table> | Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation | 0 | 1721.21 | 97.07 | Initial Hydro-static | 1 | 69.54 | 97.04 | Open To Flow (1) | 7 | 79.28 | 97.10 | End Shut-in(1) | 66 | 1271.06 | 97.57 | End Shut-in(2) | 67 | 129.13 | 97.28 | Open To Flow (2) | 97 | 147.01 | 99.22 | Shut-in(1) | 218 | 1260.32 | 98.50 | End Shut-in(3) | 222 | 1636.05 | 98.56 | Final Hydro-static | |
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 1721.21 | 97.07 | Initial Hydro-static | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 69.54 | 97.04 | Open To Flow (1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | 79.28 | 97.10 | End Shut-in(1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 66 | 1271.06 | 97.57 | End Shut-in(2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 67 | 129.13 | 97.28 | Open To Flow (2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 97 | 147.01 | 99.22 | Shut-in(1) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 222 | 1636.05 | 98.56 | Final Hydro-static | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Recovery <table border="1"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr><td>120.00</td><td>S.O.S.M 5%O 95%M</td><td>1.41</td></tr> <tr><td>30.00</td><td>EMULSIFIED MUDDY OIL</td><td>0.42</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | Length (ft) | Description | Volume (bbl) | 120.00 | S.O.S.M 5%O 95%M | 1.41 | 30.00 | EMULSIFIED MUDDY OIL | 0.42 | | | | | | | | | | Gas Rates <table border="1"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> | | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) | | | | | | | | | | | | | | |
| Length (ft) | Description | Volume (bbl) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120.00 | S.O.S.M 5%O 95%M | 1.41 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 30.00 | EMULSIFIED MUDDY OIL | 0.42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Samuel Gary Jr. & Assoc.
1515 Wynkoop Suite 700
Denver Co.
80202
ATTN: Dan Pritchard

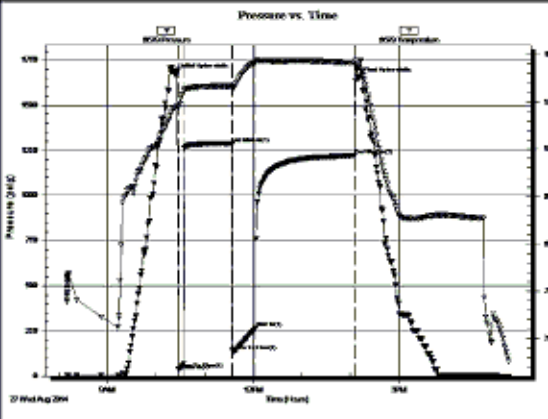
Sec. 2 - 5 s. - 24 w. / Norton
Wagoner #1-2
Job Ticket: 60500 **DST#: 2**
Test Start: 2014.08.27 @ 08:10:00

GENERAL INFORMATION:

Formation: "B - C"
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 10:27:30
Time Test Ended: 17:16:30
Interval: 3550.00 ft (KB) To 3588.00 ft (KB) (TVD)
Total Depth: 3588.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Bob Hamel
Unit No: 58
Reference Elevations: 2426.00 ft (KB)
2418.00 ft (CF)
KB to GRVCF: 8.00 ft

Serial #: 8679 Inside
Press@RunDepth: 267.71 psig @ 3584.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2014.08.27 End Date: 2014.08.27 Last Calib.: 2014.08.27
Start Time: 08:10:01 End Time: 17:16:30 Time On Btm: 2014.08.27 @ 10:24:00
Time Off Btm: 2014.08.27 @ 14:10:30

TEST COMMENT: I.F. - 5 - 1/2" INT. BLOW BUILT TO (4" IN 5 MIN.)
I.S.I - 60 - NO B.B.
F.F. - 30 - 1/2" INT. BLOW BUILT TO (B.O.B. IN 2 MIN.)
F.S.I. - 120 - W.S.B.B. STARTED @ 3 MIN. BUILT TO B.O.B. IN



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1670.09 | 94.40 | Initial Hydro-static |
| 4 | 39.19 | 94.36 | Open To Flow (1) |
| 10 | 66.33 | 95.89 | Shut-in(1) |
| 69 | 1288.91 | 96.64 | End Shut-in(1) |
| 70 | 138.96 | 96.35 | Open To Flow (2) |
| 99 | 267.71 | 99.22 | Shut-in(2) |
| 221 | 1221.95 | 99.14 | End Shut-in(2) |
| 227 | 1648.53 | 98.68 | Final Hydro-static |

| Recovery | | |
|-------------|-------------------------------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 63.00 | H ₂ O, C.M., 20% O 80% M | 0.61 |
| 693.00 | C/O 100% | 9.72 |
| | | |
| | | |
| | | |

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

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrlst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sitysh
- Lms

ACCESSORIES

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

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

- 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

- E Earthy
- B Fenest
- F Fracture
- X Inter
- A Moldic
- O Organic
- P Pinpoint
- V Vuggy

SORTING

- W Well
- M Moderate
- P Poor

ROUNDING

- R Rounded
- r Subrnd
- a Subang

- A Angular

OIL SHOWS

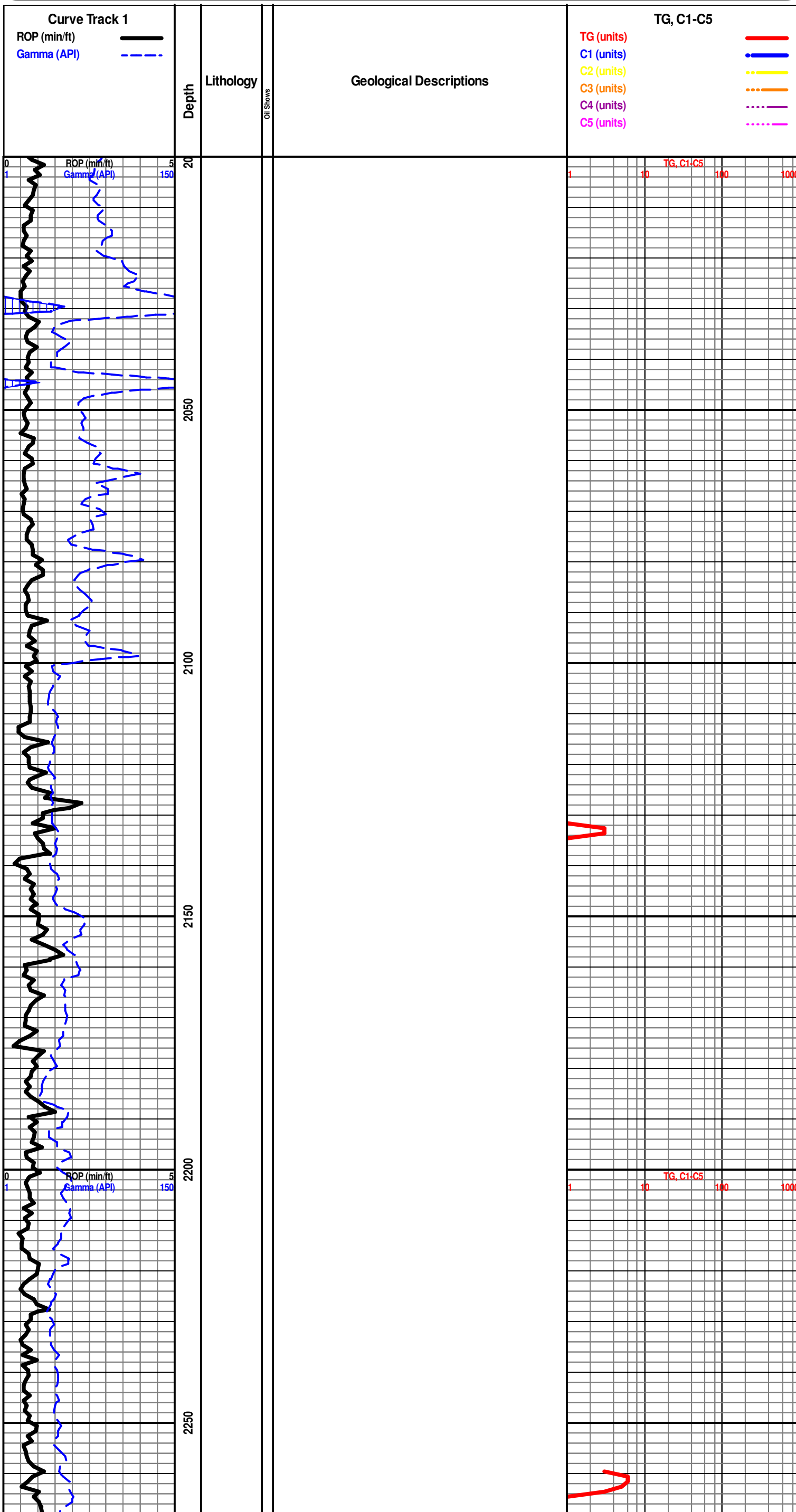
- Even
- ◉ Spotted
- ◐ Ques
- ◑ Dead
- ⊠ Gas show

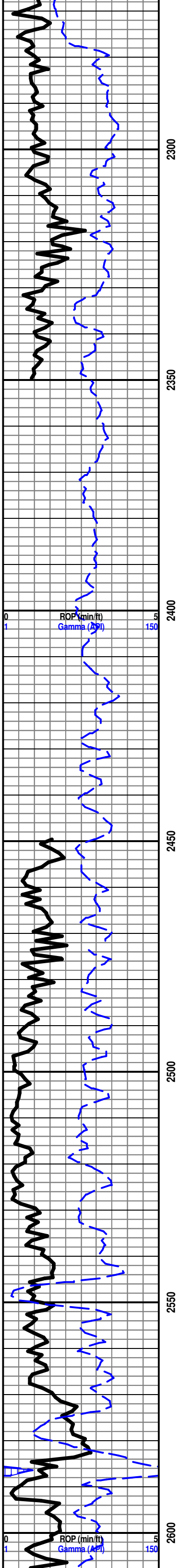
INTERVALS

- Core
- Dst
- Dst

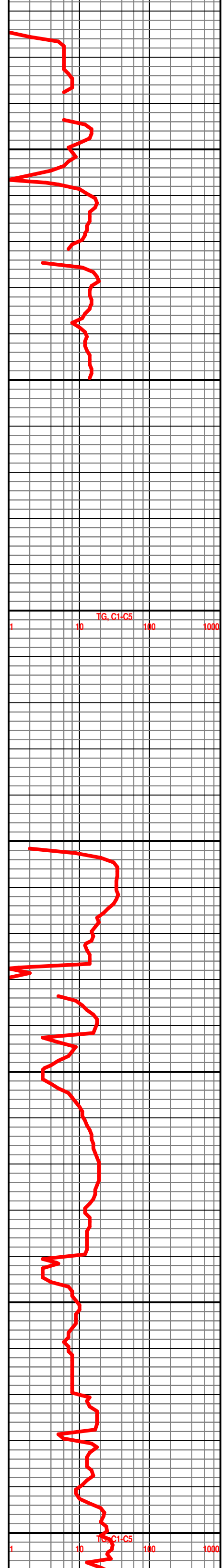
EVENTS

- ▽ Rft
- ▾ Sidewall

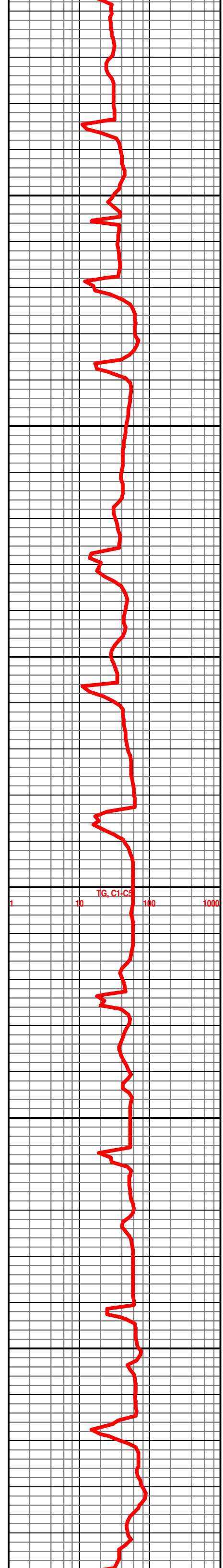
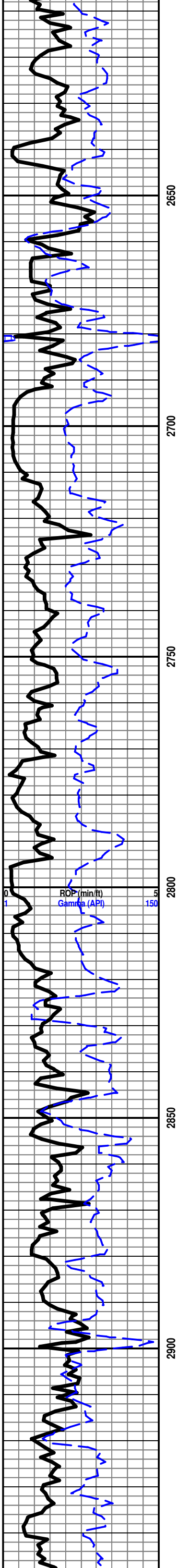


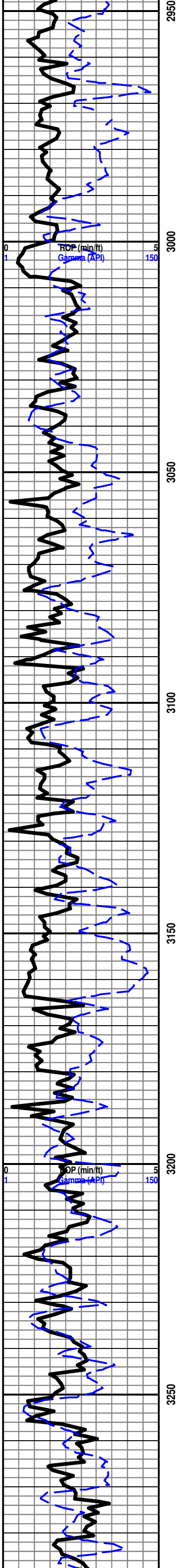


MATTFIELD 2568' -142'



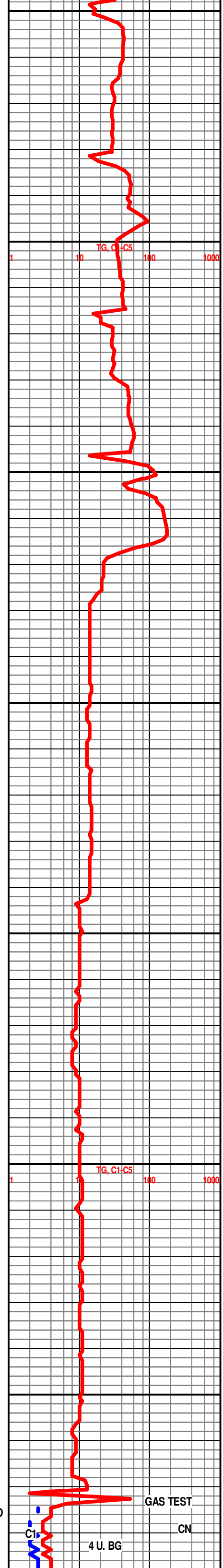
WRELORD 2652' -226'





2950
3000
3050
3100
3150
3200
3250

JANESVILLE 3041' -615'

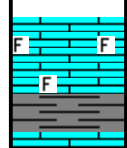


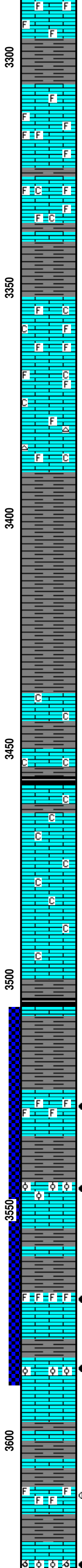
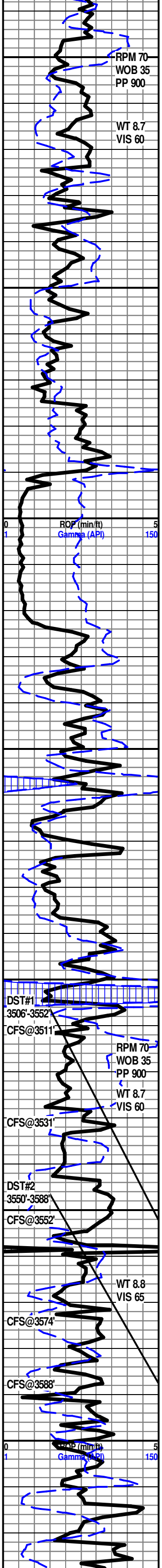
START 24 HOUR MANNED UNIT 8/24/14

LS- TN TO DK TN, HD DNS, V/F TO F XLN MTRX, S-SUCRO IP, SCAT IMBD FOSS FRG IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO DK TN, HD DNS TO BRIT IP, V/F TO F XLN

GAS TEST
C1
4 U. BG
CN





MTRX, ABTD IMBD FOSS FRG IP, SLI TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO GY, FRM BLKY, SMTH TO SLTY TXT

TOPEKA 3305' -879'

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, ABTD IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- OFF WHT TO LT TN, HD DNS TO BRIT, V/F TO F XLN MTRX, S-CHLKY IP, IMBD FOSS FRG IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- RED BRWN TO GY, SFT GMMY TO FRM BLKY, SMTH TXT

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY, ABTD IMBD FOSS THRU, SFT WHT CHLK IN TRAY, NO VIS FLO, PR INTR FOSS POR IN 3%, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, SLI TR SFT WHT CHLKY IN TRAY, TR ORNG TO OFF WHT CHRT IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- BRWN TO GY, SFT GMMY, SMTH TXT

SH- BRWN TO GY, FRM BLKY TO SFT GMMY, SMTH TXT

LS- OFF WHT TO CRM, HD DNS TO BRIT, V/F TO F XLN, S-CHLKY, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DDNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM TO LT TN, HD DNS TO BRIT IP, V/F TO F XLN MTRX, S-CHLKY IP, TR SFT WHT CHLK IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

HEEBNER 3501' -1075'

SH- BLCK, SFT, CARB

SH- BRWN GY TO DK GY, FRM BLKY TO SFT GMMY, SMTH TXT

3526'-3528' LS- LT TN TO TN W/ TN OIL STN IN 75%, LOS IN 15%, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABTD IMBD FOSS FRG THRU, DUL YEL GLD FLO IN 80%, BRT YEL GLD FLO IN 10%, PR TO FR INTR FOSS POR IN 5%, V/GD FLSH CUT IN THRU, V/GD MLKY BLU SLW STRM IN 90%, DK TN LCH ON DISH

LANSING 3543' -1117'

3541'-3542' LS- TN TO DK TN W/ TN OIL STN IN 80%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD OOL THRU, DUL YEL GLD FLO IN 85%, PR TO FR INTR OOL POR IN 7%, GD FLSH CUT IN 85%, GD TO V/GD MLKY BLU SLW STRM IN 90%, DK TN LCH ON DISH

LANSING "B" 3568' -1142'

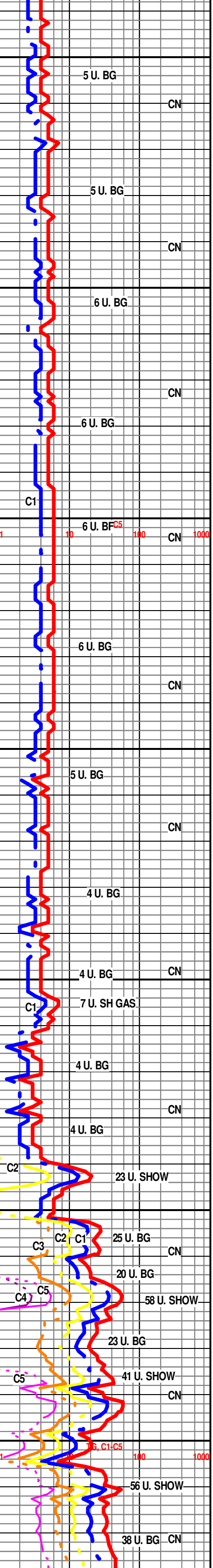
3568'-3570' LS- LT TN TO TN W/ TN OIL STN IN 90%, HD DNS TO BRIT, V/F TO F XLN MTRX, SCAT IMBD FOSS FRG IP, BRT YEL GLD FLO IN 90%, PR TO FR INTR FOSS POR IN 3%, PR TO FR INTR XLN POR IN 5%, GD FLSH CUT THRU, GD SLW MLKYBLU SLW STRM THRU, DK TN LCH ON DISH, FR OIL ODOR

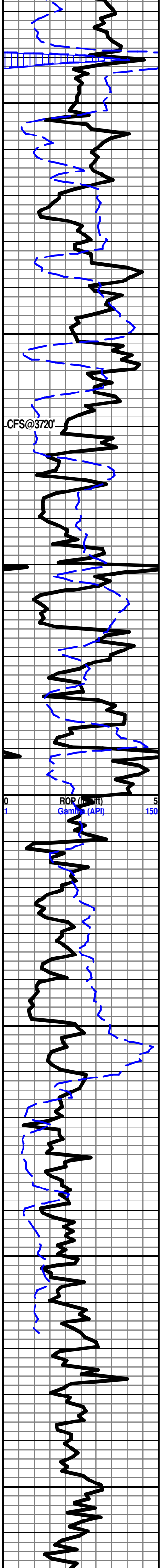
3583'-3585' LS- LT TN TO TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABTD IMBD OOL IP, BRT YEL GLD FLO IN 75%, FR INTR OOL POR IN 7%, GD FLSH CUT IN 75%, GD SLW STRM IN 80%, DK TN LCH ON DISH, FR OIL ODOR

SH- BRWN TO GY, FRM BLKY, SMTH TXT

3611'-3614' LS- CRM TO LT TN W/ TN OIL STN IN 60%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG THRU, BRT YEL GLD FLO IN 60%, PR INTR FOSS POR IN 4%, FR TO GD INTR FOSS POR IN 3%, FR SLW STRM IN 60%, FR TO GD SLW STRM IN 60%, TN LCH ON DISH

3626'-3627' LS- TN TO DK TN W/ TN OIL STN IN 75%, HD DNS TO BRIT IP, V/F TO F XLN MTRX, ABTD IMBD OOL THRU, TR OOL M.D. DUL YEL GLD





FLO IN 35%, BRT YEL GLD FLO IN 40%, PR TO FR INTR OOL POR IN 5%, FR TO GD OOLMLD POR IN 2%, FR FLSH CUT IN 75%, FR TO GD SLW STRM IN 75%, TN LCH ON DISH

LANSING "F" SHALE 3639' -1213'

SH- BRWN TO GY, FRM BLKY, SMTH TXT

3360'-3661' LS- CRM TO LT TN W/ TN OIL STN IN 25%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, SCAT IMBD FOSS FRG IP, BRT YEL GLD FLO IN 25%, FR INTR FOSS POR IN 3%, FR FLSH CUT IN 30%, FR TO GD SLW STRM IN 30%, LT TN LCH ON DISH

LANSING "G" 3682' -1256'

3682'-3684' LS- CRM TO LT TN W/ TN OIL STN IN 40%, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, IMBD FOSS FRG IP, BRT YEL GLD FLO IN 40%, FR TO GD INTR FOSS POR IN 3%, FR VUG POR IN 3%, FR FLSH CUT IN 50%, PR TO FR SLW STRM IN 50%, LT TN LCH ON DISH

LS- OFF WHT TO CRM, V/HD DNS, V/F TO CRYPTO XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, S-CHLKY IP, NO VIS FLO, NO VIS POR, NO VIS SHOW

BKC 3725' -1299'

SH- GRN BRWN RED TO GY, FRM BLKY, SMTH TXT

SH- BRWN GY, FRM BLKY TO SPLNTY, SMTH TXT

SH- BRWN RED TO GY, FRM BLKY, SLTY TXT

LS- OFF WHT TO CRM, HD DNS, V/F TO F XLN MTRX, SCAT IMBD FOSS FRG THRU, NO VIS FLO, NO VIS POR, NO VIS SHOW

LS- CRM LT TN TO TN, HD DNS, V/F TO F XLN RE-XLN MTRX, NO VIS FLO, NO VIS POR, NO VIS SHOW

SH- GRN RED BRWN TO GY, FRM BLKY, SLTY TXT

SH- GRN RED BRWN TO GY, FRM BLKY, SLTY TXT

SH- GRN RED BRWN TO GY, FRM BLKY TO SPLNTY, SLTY TXT

LS- OFF WHT TO CRM, HD DNS TO BRIT IP, F XLN MTRX, SCAT DOLO IN TRAY, NO VIS FLO, NO VIS POR, NO VIS SHOW

ARBUCKLE 3872' -1446'

DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SFT WHT CHLK IN TRAY NO VIS FLO, FR INTR GRN POR IN 8%, NO VIS SHOW

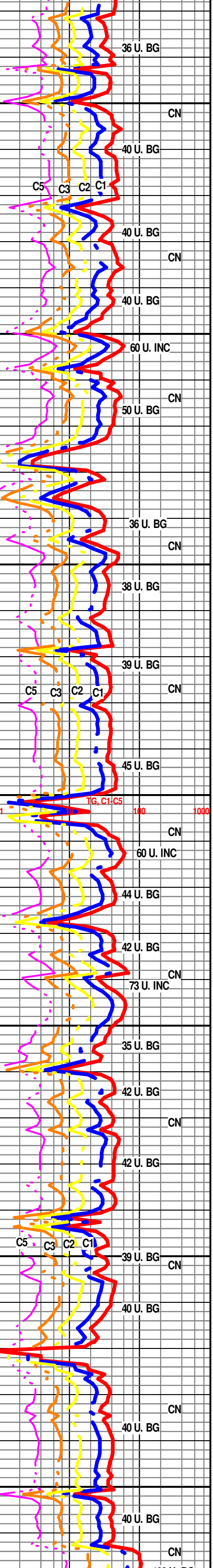
DOLO- OFF WHT TO CRM, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-ANG TO S-RND DOLO GRNS THRU, SFT WHT CHLK IN TRAY NO VIS FLO, PR FR INTR GRN POR IN 8%, NO VIS SHOW

DOLO- OFF WHT CRM TO LT TN, HD DNS TO BRIT, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW

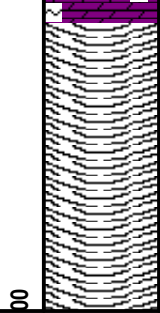
DOLO- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO MD S-RND TO ANG DOLO GRNS THRU, NO VIS FLO, FR INTR GRN POR IN 10%, NO VIS SHOW

DOLO- CRM LT TN TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-RND TO ANG DOLO GRNS THRU, NO VIS FLO, FR TO GD INTR GRN POR IN 15%, NO VIS SHOW

DOLO- CRM TO TN, HD DNS TO BRIT IP, V/F TO F XLN SUCRO MTRX, ABDT IMBD SM TO CRS S-ANG TO ANG DOLO GRNS THRU, IMBD GLAU OR KAOL IP, NO VIS FLO, PR TO FR INTR GRN POR IN 10%, NO VIS SHOW



CFS@3970'
TD@3970'



R.T.D. @ 5:00 PM 8/28/14
CFS 1 HOUR
SHORT TRIP
CTCH 1 HOUR
TOFL
WEATHERFORD/ LIBERAL

TD@3970'
SAMPLES WILL BE DELIVERED TO KGS
THANK YOU FOR CHOOSING EARTH TECH
AARON SUELTER

100 U. BG