

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**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

Gas  DH  EOR

OG  GSW

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 EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

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  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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](mailto: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>Geologist Report / Mud Logs <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 |                  |                |              |                            |
|  |                  |                |              |                            |

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
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)*

|   |  |         |             |               |         |
|---|--|---------|-------------|---------------|---------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method:<br><input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ |         |             |               |         |
| Estimated Production Per 24 Hours                                   | Oil Bbls.  | Gas Mcf | Water Bbls. | Gas-Oil Ratio | Gravity |

|   |   |                                    |
|---|---|------------------------------------|
| DISPOSITION OF GAS:<br><input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease<br><i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION:<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> | PRODUCTION INTERVAL:<br>Top Bottom |
|---|---|------------------------------------|

| Shots Per Foot | Perforation Top | Perforation Bottom | Bridge Plug Type | Bridge Plug Set At | Acid, Fracture, Shot, Cementing Squeeze Record<br><i>(Amount and Kind of Material Used)</i> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |
|                |                 |                    |                  |                    |   |

|                |       |         |            |  |
|----------------|-------|---------|------------|--|
| TUBING RECORD: | Size: | Set At: | Packer At: |  |
|----------------|-------|---------|------------|--|

|           |                         |
|-----------|-------------------------|
| Form      | ACO1 - Well Completion  |
| Operator  | Lario Oil & Gas Company |
| Well Name | KOEHN 1-6               |
| Doc ID    | 1359916                 |

All Electric Logs Run

|         |
|---------|
|         |
| GR/ACRT |
| DSN/DSL |
| MICRO   |
| BSAT    |

|           |                         |
|-----------|-------------------------|
| Form      | ACO1 - Well Completion  |
| Operator  | Lario Oil & Gas Company |
| Well Name | KOEHN 1-6               |
| Doc ID    | 1359916                 |

Tops

| Name          | Top  | Datum |
|---------------|------|-------|
| Anhydrite     | 2568 | 824   |
| Heebner       | 4038 | -646  |
| Lansing       | 4088 | -696  |
| Stark Shale   | 4386 | -994  |
| Hushpuckney   | 4438 | -1046 |
| Base KC       | 4504 | -1112 |
| Marmaton      | 4543 | -1151 |
| Pawnee        | 4636 | -1244 |
| Ft. Scott     | 4660 | -1268 |
| Johnson       | 4774 | -1382 |
| Morrow        | 4876 | -1484 |
| Mississippian | 5007 | -1615 |





REMIT TO  
 QES Pressure Pumping LLC  
 Dept:970  
 P.O.Box 4346  
 Houston, TX 77210-4346

MAIN OFFICE

P.O.Box884  
 Chanute, KS 66720  
 620/431-9210, 1-800/467-8676  
 Fax 620/431-0012

Invoice

Invoice# 810408

Invoice Date: 06/06/17

Terms: Net 30

Page 1

LARIO OIL & GAS  
 P.O. BOX 1093  
 GARDEN CITY KS 67846  
 USA  
 3162655611

KOEHN 1-6

*DRILLING AFE 17-056*  
*6/8/17*  
*MR*

| Part No                 | Description   | Quantity | Unit Price | Discount(%) | Total    |
|-------------------------|---|----------|------------|-------------|----------|
| CE0471                  | Cement Pump Charge 301' - 500'<br>(Coalbed/Methane) | 1.000    | 1,150.0000 | 30.000      | 805.00   |
| CE0002                  | Equipment Mileage Charge - Heavy<br>Equipment       | 40.000   | 7.1500     | 30.000      | 200.20   |
| CE0710                  | Cement Delivery Charge                              | 1.000    | 789.6000   | 30.000      | 552.72   |
| CC5871                  | Surface Blend II, 2% Gel/3% CaCl                    | 240.000  | 23.0000    | 30.000      | 3,864.00 |
| Subtotal                |   |          |            |             | 7,745.60 |
| Discounted Amount       |   |          |            |             | 2,323.68 |
| SubTotal After Discount |   |          |            |             | 5,421.92 |

Amount Due 8,214.80 If paid after 07/06/17

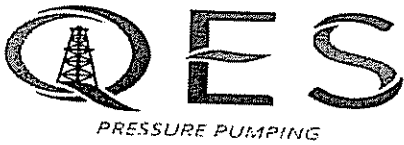
*BCP*

Tax: 328.44

Total 5,750.36

JUN 14 2017

JUN 12 2017



8261  
8165

TICKET NUMBER 51793

LOCATION Oakley Ks

FOREMAN Jerry Y

WELD TICKET & TREATMENT REPORT

CEMENT

Invoice # 810408

KS

620-431-9210 or 800-467-8676

| DATE            | CUSTOMER # | WELL NAME & NUMBER   | SECTION | TOWNSHIP | RANGE    | COUNTY  |        |
|-----------------|------------|--|---------|----------|----------|---------|--------|
| 6-2-17          | 4793       | Koehn 1-6  | 6       | 17s      | 37w      | Wichita |        |
| CUSTOMER        |            | MATERIALS  |         | TRUCK #  | DRIVER   | TRUCK # | DRIVER |
| Lanid Oil & Gas |            | Russell Spgs<br>S to G 700<br>W to 7<br>1/2 S<br>E to W into |         | 731      | Cory D   |         |        |
| MAILING ADDRESS |            | CITY   |         | STATE    | ZIP CODE |         |        |
| P.O. Box 1093   |            | Garden City  |         | KS       | 67846    |         |        |

|                                |                         |                       |  |
|--------------------------------|-------------------------|-----------------------|--|
| JOB TYPE <u>Surface</u>        | HOLE SIZE <u>12 1/4</u> | HOLE DEPTH <u>375</u> | CASING SIZE & WEIGHT <u>8 5/8 20 #</u> |
| CASING DEPTH <u>371</u>        | DRILL PIPE              | TUBING                | OTHER                                  |
| SLURRY WEIGHT <u>15.2</u>      | SLURRY VOL <u>1.24</u>  | WATER gal/sk          | CEMENT LEFT IN CASING <u>20'</u>       |
| DISPLACEMENT <u>22 1/2 bbl</u> | DISPLACEMENT PSI        | MIX PSI               | RATE                                   |

REMARKS: Safety meeting & rig up on Duke 5 break circulation with rig tree mix 240 sks surface blend II wash up & displace with 22 1/2 bbl fresh water & slat in circulated approx 2 bbl to pit

Cement did  
circulate

Thank you  
Jerry & crew

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT     | UNIT PRICE      | TOTAL   |
|--------------|-------------------|--|-----------------|---------|
| CE0471       | 1                 | PUMP CHARGE                            | 1150.00         | 1150.00 |
| CE0602       | 40                | MILEAGE                                | 7.15            | 286.00  |
| CE0710       | 11.28             | don mileage delivery                   | 1.75            | 197.40  |
| CC5871       | 240 sks           | Surface blend II (com 3% cc 2% og - I) | 23.00           | 5520.00 |
|              |                   |  | subtotal        | 7745.60 |
|              |                   |  | -30% disc       | 2323.68 |
|              |                   |  | subtotal        | 5421.92 |
|              |                   |  | SALES TAX       | 328.44  |
|              |                   |  | ESTIMATED TOTAL | 5750.36 |

Revin 3737

AUTHORIZATION Kenneth McIne TITLE Rig Supervisor DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for any invoice...



|                                   |                    |                |                            |
|-----------------------------------|--------------------|----------------|----------------------------|
| PAGE<br>1 of 1                    | CUST NO<br>1002301 | YARD #<br>1718 | INVOICE DATE<br>06/25/2017 |
| INVOICE NUMBER<br><b>92453877</b> |                    |                |                            |

Pratt (620) 672-1201  
 B LARIO OIL & GAS  
 I PO Box: 1093  
 L GARDEN CITY  
 L KS US 67846  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Koehn 1-6 ✓  
 O LOCATION  
 B COUNTY Wichita  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT  
*drilling P&A*  
*AFE 17-056*  
*June 29, 2017 AK*

|                   |                      |                    |                        |                        |
|-------------------|----------------------|--------------------|------------------------|------------------------|
| JOB #<br>41035250 | EQUIPMENT #<br>19570 | PURCHASE ORDER NO. | TERMS<br>Net - 30 days | DUE DATE<br>07/25/2017 |
|-------------------|----------------------|--------------------|------------------------|------------------------|

|   | QTY      | U of M | UNIT PRICE | INVOICE AMOUNT |
|---|----------|--------|------------|----------------|
| <i>For Service Dates: 06/11/2017 to 06/11/2017</i>            |          |        |            |                |
| 0041035250  |          |        |            |                |
| 171814360L Cement-New Well Casing/Pi 06/11/2017<br>Cement PTA |          |        |            |                |
| 60/40 POZ   | 300.00   | EA     | 6.00       | 1,800.00 T     |
| Celloflake  | 65.00    | EA     | 1.85       | 120.25 T       |
| Cement Gel  | 500.00   | EA     | 0.13       | 65.00 T        |
| "Unit Mileage Chg (PU, cars one way)"                         | 100.00   | MI     | 2.25       | 225.00         |
| Heavy Equipment Mileage                                       | 200.00   | MI     | 3.75       | 750.00         |
| "Proppant & Bulk Del. Chgs., per ton mil                      | 1,290.00 | EA     | 1.25       | 1,612.50       |
| Blending & Mixing Service Charge                              | 300.00   | BAG    | 0.70       | 210.00         |
| Cement Data Acquisition Monitor                               | 1.00     | EA     | 275.00     | 275.00         |
| Depth Charge; 2001'-3000'                                     | 1.00     | EA     | 900.00     | 900.00         |
| "Service Supervisor, first 8 hrs on loc.                      | 1.00     | EA     | 87.50      | 87.50          |

*all*  
*✓*  
 PAID  
 JUN - 5 2017  
*✓*

|                           |                               |               |          |
|---------------------------|-------------------------------|---------------|----------|
| PLEASE REMIT TO:          | SEND OTHER CORRESPONDENCE TO: | SUB TOTAL     | 6,045.25 |
| BASIC ENERGY SERVICES, LP | BASIC ENERGY SERVICES, LP     | TAX           | 168.75   |
| PO BOX 841903             | 801 CHERRY ST, STE 2100       | INVOICE TOTAL | 6,214.00 |
| DALLAS, TX 75284-1903     | FORT WORTH, TX 76102          |               |          |



TTMA - 35



1700 S. Country Estates Road  
 Liberal, KS 67001  
 PH (620)-624-2277 FAX (620) 624-2280

SERVICE ORDER - 1718-14360 L

Date: 6/11/2017

Well Name: Koehn 1-6  
 County - State: Wichita, Ks  
 Type Of Service: Z42 - Plug to Abandon  
 Location: 6,17,37  
 RRC #: 19570-2.5  
 Customer's Order #: 1002301

Customer: Lario Oil & Gas

Address: PO Box 1093  
 Garden City, KS 67844

As a consideration, the above named Customer agrees to pay Basic Energy Services in accordance with the rates and terms stated in Basic Energy Services current price lists. Invoices are payable NET 30 (SEE 10.2) after date of invoice. Upon Customer's default in payment of Customer's account by such date, Customer agrees to pay interest thereon at a default of 18% per annum. In the event it becomes necessary to employ an attorney to enforce collection of said account, Customer agrees to pay all the collection costs and attorney fees. These terms and conditions shall be governed by the laws of the state where services are performed or equipment or materials are furnished.

Basic Energy Services, warrants only title to the products, supplies and materials and that the same are free from defects in workmanship. THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, MERCHANTABILITY/FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE WHICH EXTEND BEYOND THOSE STATED IN THE IMMEDIATELY PRECEDING SENTENCE. Basic Energy Services, liability and Customer's exclusive remedy in any cause of action (whether in contract, tort, product liability, breach of warranty or otherwise) arising out of the sale or use of any products, supplies, or materials upon their return to Basic Energy Services, is expressly limited to the replacement of such products, supplies or materials or, at Basic Energy Services' option, to the allowance to the Customer of credit for the cost of such items. In no event shall Basic Energy Services be liable for special, indirect, punitive or consequential damages.

| CODE  | QTY  | UOM   | DESCRIPTION  | PRICE        | TOTAL       |
|-------|------|-------|--|--------------|-------------|
| CL103 | 300  | Sk    | 60/40 POZ  | 12.00        | 3600.00     |
| CC102 | 65   | Lb    | Celloflake   | 3.70         | 240.50      |
| CC200 | 500  | Lb    | Cement Gel   | 0.25         | 125.00      |
| E101  | 200  | MI    | Heavy Equipment Mileage                                  | 7.50         | 1500.00     |
| CE240 | 300  | Sk    | Blending & Mixing Service Charge                         | 1.40         | 420.00      |
| E113  | 1290 | Tn/MI | Proppant and Bulk Delivery Charges, per ton mile         | 2.50         | 3225.00     |
| CE203 | 1    | 4 Hrs | Depth Charge: 2001'-3000'                                | 1800.00      | 1800.00     |
| E100  | 100  | MI    | Unit Mileage Charge-Pickups, Small Vans & Cars (one way) | 4.50         | 450.00      |
| S003  | 1    | Ea    | Service Supervisor, first 8 hrs on loc.                  | 175.00       | 175.00      |
| T105  | 1    | Ea    | Cement Data Acquisition Monitor / Strip Chart Recorder   | 550.00       | 550.00      |
|       |      |       |  | Book Total:  | \$12,085.50 |
|       |      |       |  | Taxes:       |             |
|       |      |       |  | Disc. Price: | \$5,045.25  |

PUMP TRUCK NUMBER: 38119-19570  
 DRIVER: *[Signature]*  
 BASIC ENERGY SERVICES

THIS JOB WAS SATISFACTORILY COMPLETED  YES  NO  
 OPERATION OF EQUIPMENT WAS SATISFACTORY  YES  NO  
 PERFORMANCE OF PERSONNEL WAS SATISFACTORY  YES  NO

*[Signature]*  
 CUSTOMER OR HIS AGENT

T.D.

Customer Comments or Concerns:



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

**Job Log**

|                    |                 |                  |                       |                   |             |
|--------------------|-----------------|------------------|-----------------------|-------------------|-------------|
| Customer:          | Lario Oil & Gas | Cement Pump No.: | 38119-19570           | Operator TRK No.: | 78939       |
| Address:           |                 | Ticket #:        | 1718-14360 L          | Bulk TRK No.:     | 14355-37724 |
| City, State, Zip:  |                 | Job Type:        | Z42 - Plug to Abandon |                   |             |
| Service District:  |                 | Well Type:       | OIL                   |                   |             |
| Well Name and No.: | Koehn 1-6       | Well Location:   | 6,17,37               | County:           | Wichita     |
|                    |                 |                  |                       | State:            | Ks          |

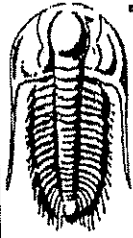
| Type of Cmt | Sacks | Additives            | Truck Loaded On |       |      |
|-------------|-------|----------------------|-----------------|-------|------|
| 60/40 POZ   | 300   | 4%GEL, 1/4#POLYFLAKE | 14355-37724     | Front | Back |
|             |       |                      |                 | Front | Back |
|             |       |                      |                 | Front | Back |

| Lead/Tail:   | Weight #1 Gal. | Cu/Ft/sk | Water Requirements | CU. FT. | Man Hours / Personnel |
|--------------|----------------|----------|--------------------|---------|-----------------------|
| <b>Lead:</b> | 13.5           | 1.51     | 7.5                | 453     | Man Hours:            |
| <b>Tail:</b> |                |          |                    |         | # of Men on Job: 3    |

| Time (am/pm) | (BPM) | Volume (BBLs) | Pumps |   | Pressure (PSI) |        | Description of Operation and Materials |
|--------------|-------|---------------|-------|---|----------------|--------|--|
|              |       |               | T     | C | Tubing         | Casing |  |
| 15:00        |       |               |       |   |                |        | ON LOC, SAFTEY MTG, R.U.               |
| 15:55        | 3     | 10            |       |   | 180            |        | H2O SPACER                             |
| 3:57 PM      | 3     | 13.4          |       |   | 190            |        | MIX 50 SX @ 2600                       |
| 4:04 PM      | 3     | 2             |       |   |                |        | H2O SPACER                             |
| 4:07 PM      | 8     | 31            |       |   | 240            |        | MUD                                    |
| 16:46        | 4     | 10            |       |   | 240            |        | H2O SPACER                             |
| 16:50        | 5     | 21.5          |       |   | 240            |        | MIX 80 SX @ 1600                       |
| 4:55 PM      | 5     | 2             |       |   |                |        | H2O SPACER                             |
| 16:57        | 8     | 15            |       |   | 240            |        | MUD                                    |
| 17:20        | 4.5   | 10            |       |   | 110            |        | H2O SPACER                             |
| 17:22        | 5     | 13.4          |       |   | 110            |        | MIX 50 SX @ 1000                       |
| 17:27        | 5     | 10.5          |       |   | 110            |        | H2O SPACER                             |
| 17:52        | 4.5   | 10            |       |   | 50             |        | H2O SPACER                             |
| 17:55        | 5     | 13.4          |       |   | 110            |        | MIX 50 SX @ 400                        |
| 18:00        | 5     | 2             |       |   |                |        | H2O SPACER                             |
| 18:14        | 4     | 5.5           |       |   |                |        | MIX 20 SX @ 60'                        |
| 18:23        |       | 8 & 5         |       |   |                |        | PLUG R&M                               |
|              |       |               |       |   |                |        | WASHUP                                 |
|              |       |               |       |   |                |        | JOB COMPLETE                           |
|              |       |               |       |   |                |        | THANKYOU FOR YOUR BUSINESS!!!          |

|                 |       |       |  |            |          |       |
|-----------------|-------|-------|--|------------|----------|-------|
| Size Hole       | 7 7/8 | 5120  |  |            | TYPE     |       |
| Size & Wt. Csg. |       | Depth |  | New / Used | Packer   | Depth |
| lbg.            | 4 1/2 | Depth |  |            | Retainer | Depth |
| Top Plugs       |       | Type  |  |            | Perfs    | CIBP  |

|                     |                        |                       |                    |
|---------------------|------------------------|-----------------------|--------------------|
| Customer Signature: | <i>Kenneth McQuinn</i> | Basic Representative: | CHAD HINZ          |
|                     |                        | Basic Signature:      | <i>[Signature]</i> |
|                     |                        | Date of Service:      | 6/11/2017          |



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

Lario Oil & Gas Co

6 17s 37w Wichita, Ks

301 S Market St  
Wichita, Ks 67202

Koehn #1-6

Job Ticket: 61367

DST#: 1

ATTN: Steve Davis

Test Start: 2017.06.08 @ 11:56:00

## GENERAL INFORMATION:

Formation: **Marmaton A-B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:10:00  
 Time Test Ended: 20:30:30

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78

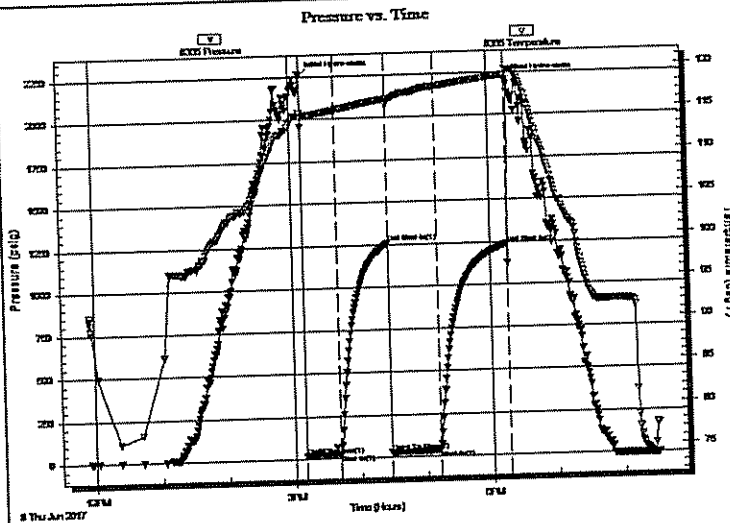
Interval: **4495.00 ft (KB) To 4595.00 ft (KB) (TVD)**  
 Total Depth: 4595.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 3392.00 ft (KB)  
 3383.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: **8365** Inside  
 Press@RunDepth: 36.17 psig @ 4496.00 ft (KB)  
 Start Date: 2017.06.08 End Date: 2017.06.08  
 Start Time: 11:56:05 End Time: 20:30:30

Capacity: 8000.00 psig  
 Last Calib.: 2017.06.08  
 Time On Btm: 2017.06.08 @ 15:09:45  
 Time Off Btm: 2017.06.08 @ 18:17:00

TEST COMMENT: IF: 1/2" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.



## PRESSURE SUMMARY

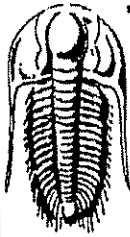
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 2256.81         | 114.93       | Initial Hydro-static |
| 1           | 18.69           | 113.26       | Open To Flow (1)     |
| 31          | 25.07           | 115.08       | Shut-in(1)           |
| 78          | 1257.83         | 116.34       | End Shut-In(1)       |
| 78          | 27.64           | 115.55       | Open To Flow (2)     |
| 123         | 36.17           | 117.75       | Shut-In(2)           |
| 186         | 1240.27         | 118.85       | End Shut-In(2)       |
| 188         | 2209.91         | 119.45       | Final Hydro-static   |

## Recovery

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 40.00       | Mud 100m (oil spots) | 0.20         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

## Gas Rates

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Lario Oil & Gas Co

6 17s 37w Wichita, Ks

301 S Market St  
Wichita, Ks 67202

Koehn #1-6

Job Ticket: 61367

DST#: 1

ATTN: Steve Davis

Test Start: 2017.06.08 @ 11:56:00

**GENERAL INFORMATION:**

Formation: **Marmaton A-B**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:10:00  
 Time Test Ended: 20:30:30

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Bradley Walter  
 Unit No: 78

Interval: **4495.00 ft (KB) To 4595.00 ft (KB) (TVD)**  
 Total Depth: 4595.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good

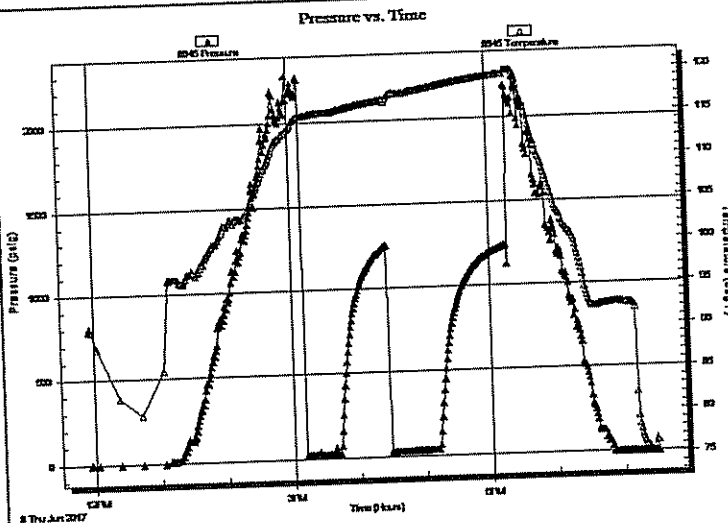
Reference Elevations: 3392.00 ft (KB)  
 3383.00 ft (CF)  
 KB to GR/CF: 9.00 ft

Serial #: **8845** Outside  
 Press@RunDepth: psig @ 4496.00 ft (KB)  
 Start Date: 2017.06.08 End Date: 2017.06.08  
 Start Time: 11:56:05 End Time: 20:30:30

Capacity: 8000.00 psig  
 Last Calib.: 2017.06.08  
 Time On Btm:  
 Time Off Btm:

TEST COMMENT: IF: 1/2" blow.  
 IS: No return.  
 FF: No blow.  
 FS: No return.

**PRESSURE SUMMARY**



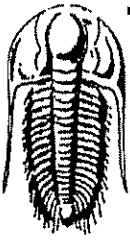
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|------------|
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |
|             |                 |              |            |

**Recovery**

| Length (ft) | Description          | Volume (bbl) |
|-------------|----------------------|--------------|
| 40.00       | Mud 100m (oil spots) | 0.20         |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |
|             |                      |              |

**Gas Rates**

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

FLUID SUMMARY

Lario Oil & Gas Co

6 17s 37w Wichita, Ks

301 S Market St  
Wichita, Ks 67202

Koehn #1-6

Job Ticket: 61367

DST#: 1

ATTN: Steve Davis

Test Start: 2017.06.08 @ 11:56:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 64.00 sec/qt  
Water Loss: 9.59 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8700.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psig

Oil API: 0 deg API  
Water Salinity: 0 ppm

## Recovery Information

Recovery Table

| Length<br>ft | Description          | Volume<br>bbl |
|--------------|----------------------|---------------|
| 40.00        | Mud 100m (oil spots) | 0.197         |

Total Length: 40.00 ft      Total Volume: 0.197 bbl

Num Fluid Samples: 0

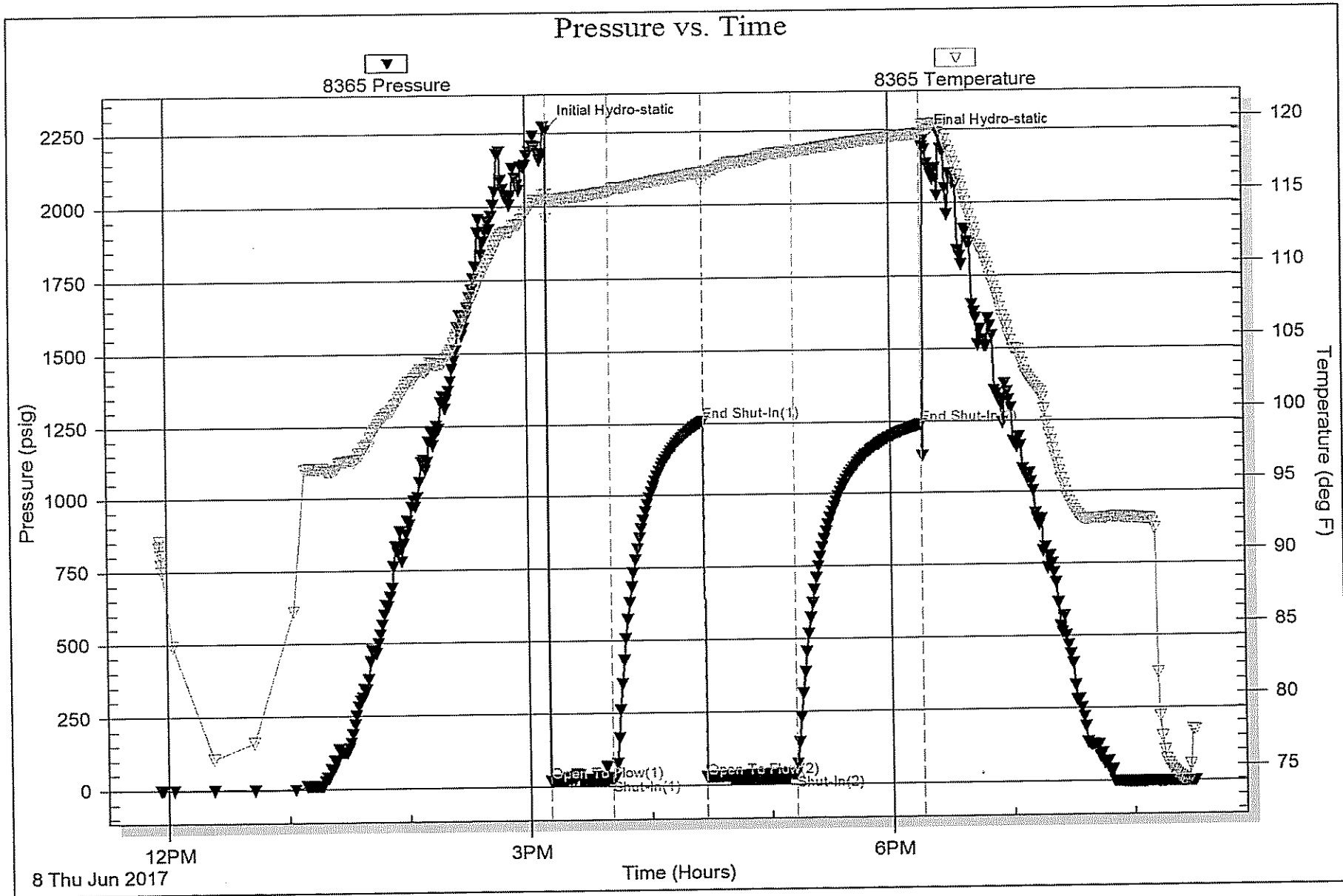
Num Gas Bombs: 0

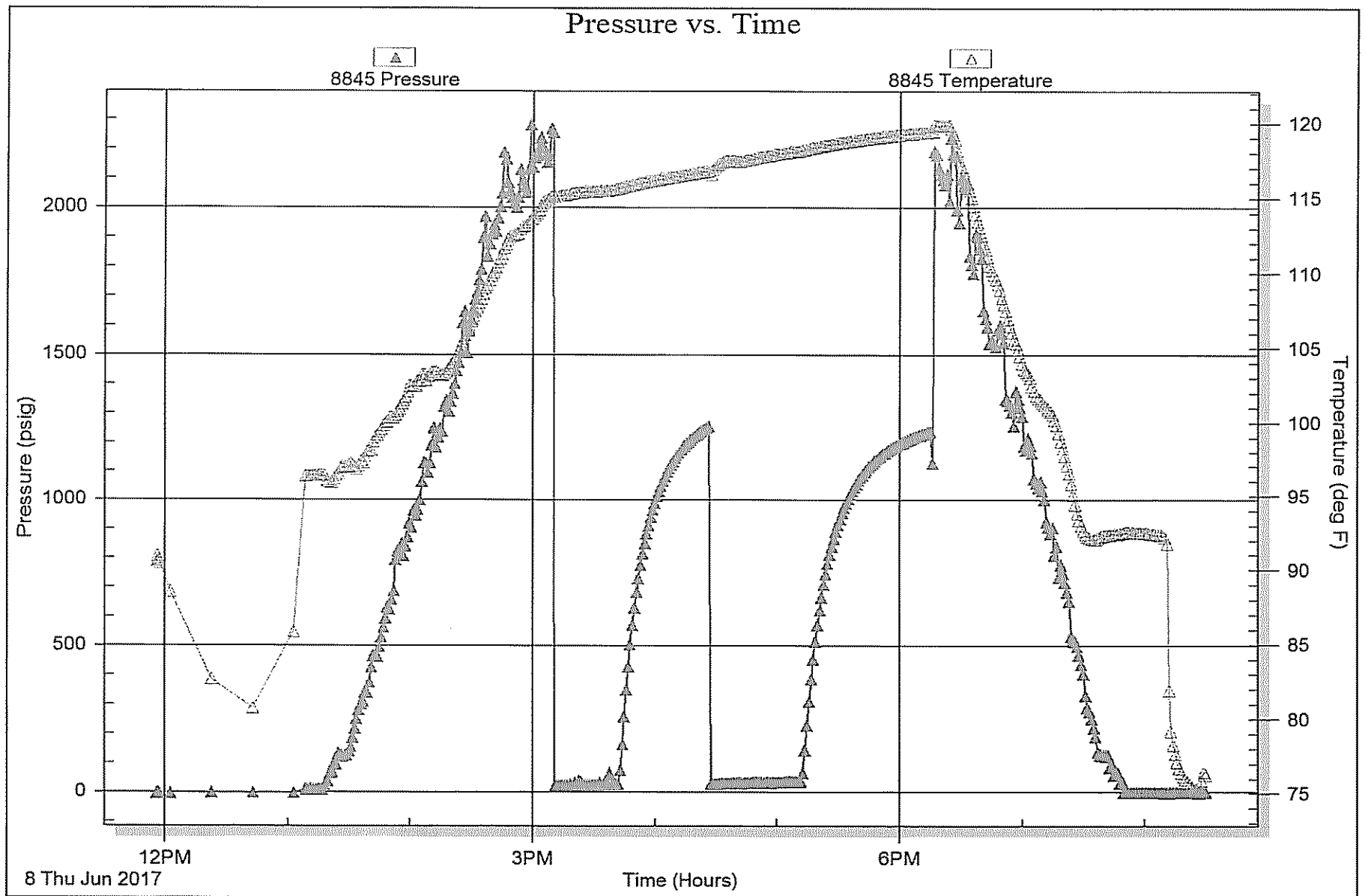
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







**LARIO OIL & GAS COMPANY**  
**KOEHN #1-6**  
**2018' FNL & 602' FWL of Section 6-T17S-R37W**  
**WICHITA COUNTY, KANSAS**  
**API#15-203-20319-00-00**

**Geologist's Report**  
**WellSight Systems**

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

Well Name: Koehn #1-6  
API: 15-203-20319-00-00  
Location: 2018' FNL & 602' FWL of Section 6-T17S-R37W  
License Number: API#15-203-20139-00-00  
Spud Date: 06/01/2017  
Surface Coordinates: 2018' FNL & 602' FWL of Section 6-T17S-R37W  
Region: Wichita County, KS  
Drilling Completed: 06/11/2017  
P&A

Bottom Hole Vertical Test  
Coordinates:  
Ground Elevation (ft): 3381  
Logged Interval (ft): RTD To: 3500  
Formation: Mississippi  
Type of Drilling Fluid: Chemical (Displaced @ 3397 )  
K.B. Elevation (ft): 3392  
Total Depth (ft): RTD 5120 LTD 5118

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

**Operator**

Company: Lario Oil & Gas Company  
Address: 301 S Market  
Wichita, Kansas 67202  
Division Geologist: John Hastings

**Geologist**

Name: Richard S.(Steve) Davis Jr.  
Company: Consulting Petroleum Geologist  
Address: 7329 E Norfolk  
Wichita, Kansas 67202  
Cell 316-772-6479 Home 316-686-1193



## FORMATION TOPS

| Formation    | Sample | E-Log | Datum | Formation     | Sample | E-Log | Datum |
|--------------|--------|-------|-------|---------------|--------|-------|-------|
| KB 3392      |        |       |       |               |        |       |       |
| Anhydrite    | 2574   | 2568  | +824  | Hushpuckney   | 4435   | 4438  | -1046 |
| B/Anhydrite  | 2592   | 2586  | +806  | Lansing L     | 4444   | 4446  | -1054 |
| Stotler      | 3661   | 3657  | -265  | BKC           | 4503   | 4504  | -1112 |
| Topeka       | 3864   | 3859  | -467  | Marmaton      | 4544   | 4543  | -1151 |
| Heebner      | 4043   | 4038  | -646  | Pawnee        | 4639   | 4636  | -1244 |
| Toronto      | 4060   | 4055  | -663  | Fort Scott    | 4663   | 4660  | -1268 |
| Lansing      | 4091   | 4088  | -696  | Cherokee Sh   | 4676   | 4674  | -1282 |
| Lansing D    | 4197   | 4196  | -804  | Lwr Cherokee  | 4708   | 4706  | -1314 |
| Muncie Creek | 4286   | 4283  | -891  | Johnson       | 4778   | 4774  | -1382 |
| Lansing H    | 4297   | 4294  | -902  | Morrow        | 4875   | 4876  | -1484 |
| Lansing I    | 4338   | 4333  | -941  | Basal Penn Sd | 4988   | 4986  | -1594 |
| Lansing J    | 4362   | 4360  | -968  | Mississippi   | 5008   | 5007  | -1615 |
| Stark        | 4386   | 4386  | -994  |               |        |       |       |
| Lansing K    | 4403   | 4400  | -1008 | Total Depth   | 5120   | 5118  | -1726 |

### DAILY PENETRATION: 7:00 AM

| Date     | Depth | Activity |
|----------|-------|----------|
| 06/01/17 | 0     | MIRU     |
| 6/02     | 0     | Spud     |
| 6/03     | 539   | Drlg     |
| 6/04     | 2588  | Drlg     |
| 6/05     | 3624  | Drlg     |
| 6/06     | 4121  | Drlg     |
| 6/07     | 4421  | Drlg     |
| 6/08     | 4595  | CTCH     |
| 6/09     | 4668  | DST #1   |
| 6/10     | 4940  | Drlg     |
| 6/11     | 5120  | WOO      |

### CONTRACTOR:

Duke Drilling Rig #5

Toolpusher: Ken McGuire

### MUD:

Mud Co (displacement complete @ 3397')

Reed Atkins

**DRILL STEM TESTING: Trilobite Testing Inc.**

**Bradley Walter (Walt)**

**ELECTRIC LOG: Halliburton**

Thomas Hyde

(DIL, CDL/CNL, PE, MEL & Sonic)

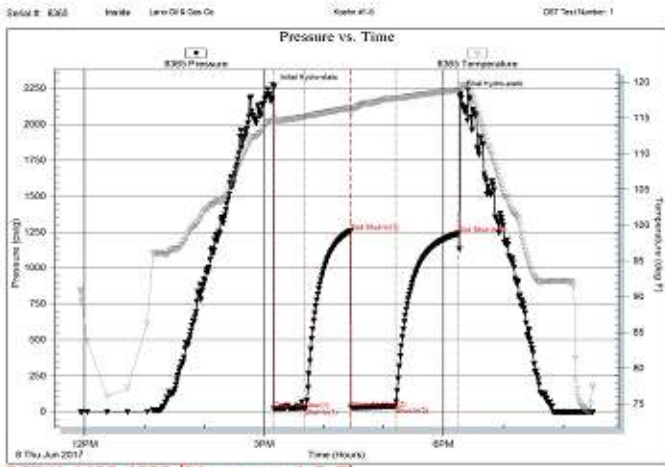
### CASING RECORD:

Surface: 8 5/8" @ 371' w/ 240 sx

Production: None

### BIT RECORD:

| Bit No./Size | Make/Type   | Out  | Ftg  | Hrs    | Hrs    |
|--------------|-------------|------|------|--------|--------|
| #1/ 12 1/4"  | Verel RT    | 375  | 375  | 2 1/2  | 2 1/2  |
| #2/ 7 7/8"   | Verel PDC   | 3500 | 3125 | 30 1/2 | 30 1/2 |
| #3/ 7 7/8"   | Verel HE-29 | 5120 | 1620 | 92 1/4 | 92 1/4 |

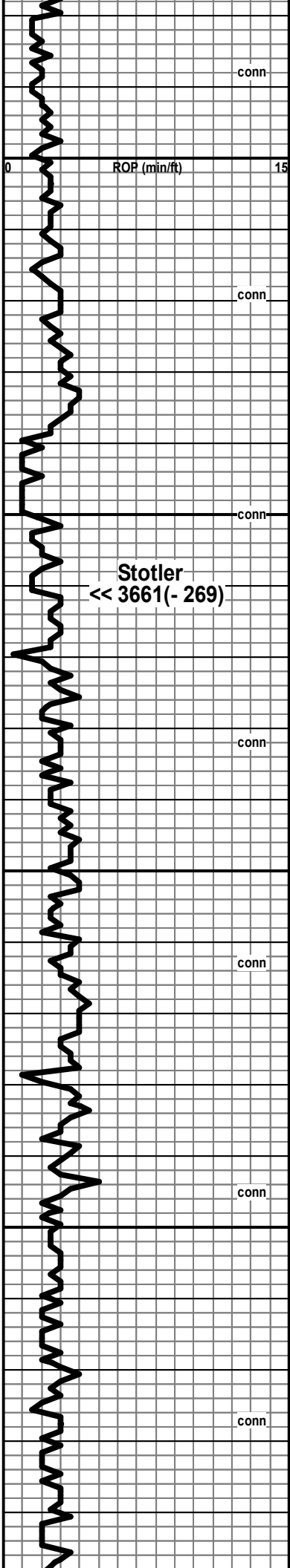


DST#1 4495-4595 (Marmaton A & B)

### Rock Types

|                      |  |  |  |                         |
|----------------------|--|--|--|-------------------------|
| <b>LITHOLOGY</b><br> |  |  |  |                         |
|                      |  |  |  | <b>OIL SHOW</b><br>Even |

| ROP (min/ft) | Depth | Lithology | Shows | Geological Descriptions | Remarks                                |
|--------------|-------|-----------|-------|-------------------------|--|
|              |       |           |       |                         |  |
| ROP (min/ft) | 15    |           |       |                         |  |
| 3500         |       |           |       |                         |  |
| 3550         |       |           |       |                         |  |
|              |       | conn      |       |                         | <b>START 20' WET &amp; DRY @ 3520'</b> |
|              |       | conn      |       |                         |  |



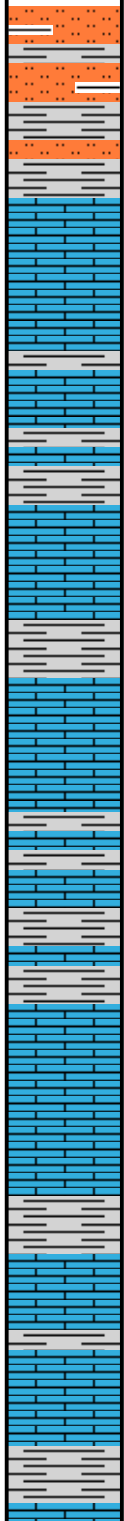
3600

3650

3700

3750

**Stotler**  
 << 3661(- 269)



Most Shale, gy, gn & red +Slst, gn & mar

LS, tan-crm, fxl, sltly foss, NV por

Shale, dk gy-blk + LS, gy-brn, vfxln, sltly foss, NV por, dns

LS, tan-brn, vfxln, sltly foss, arg, hd, NV por

Shale, blk, dk gy-gn + LS, tan-brn, vfxln, sltly foss, NV por, hd

Shale, mar, gy, blk + LS, crm-gy, f-vfxln, sltly foss, arg, NV por

LS, gy-brn, f-vfxln, sub arg, sltly foss, NV por

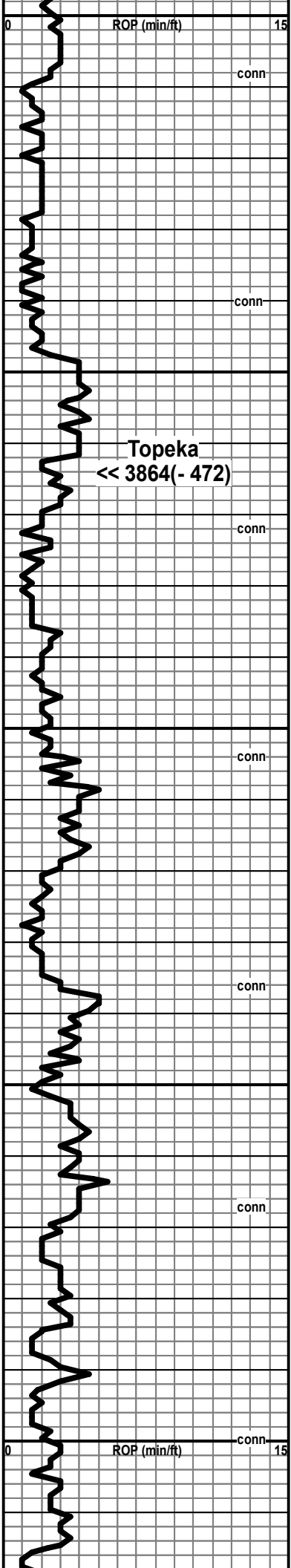
LS, gy-brn, f-vfxln, arg, sltly foss, NV por + Shale, blk, mar & dk gy

Shale, gy-gn, calc + LS, gy-tan, f-mxln, sltly foss, NV por, hd, P ipart por, NS

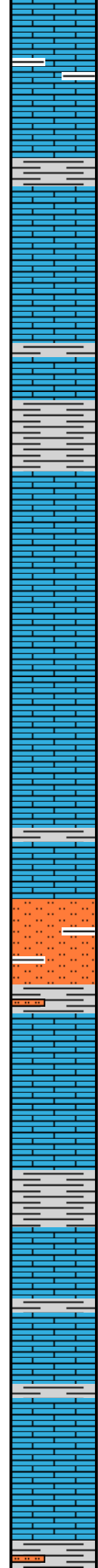
Shale, mar, gy & gn

Vis 54 Wt 8.7 Fil 6.4 PH 11.5  
 Chl 2,400 LCM 3#  
 6/05/2017 @ 3650

Vis 63 Wt 8.7



3800  
3850  
3900  
3950  
4000



LS, tan-gy, vfxln, sltly foss, hd, NV por

Shale, gy-gn & blk + LS AA

LS, off wh-tan, fxln, gran, chky, sltly foss-ool, NV por, sft

Shale, gy, blk & gn + LS, gy-brn, vf-fxln, arg, sltly foss

LS, off wh-tan, fxln, gran, sub ool, chky, NVpor, sft

LS, gy-tan, fxln, few foss frag, sub arg, hd, NV por

LS, tan-off wh, fxln, gran, few foss frag, chky IP, NV por

LS, tan-gy, vfxln, ool-foss, mhd, NV por

Wash red, sltst, gy-rust + Shale, red, sft

LS, wh-lt gy, fxln, chky IP, foss-ool, mhd, NV por

Shale, dk gy-blk

LS, wh-tan, mxln, NV por, dns

LS, tan-lt gy, vf-fxln, ool-foss, chky IP, hd, NV por

LS, f-vfxln, tan-gy, foss, NV por

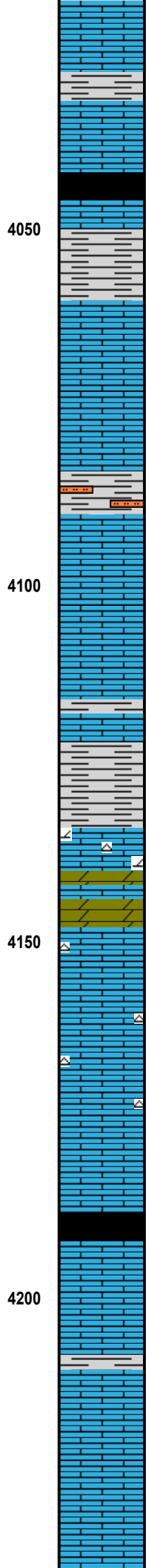
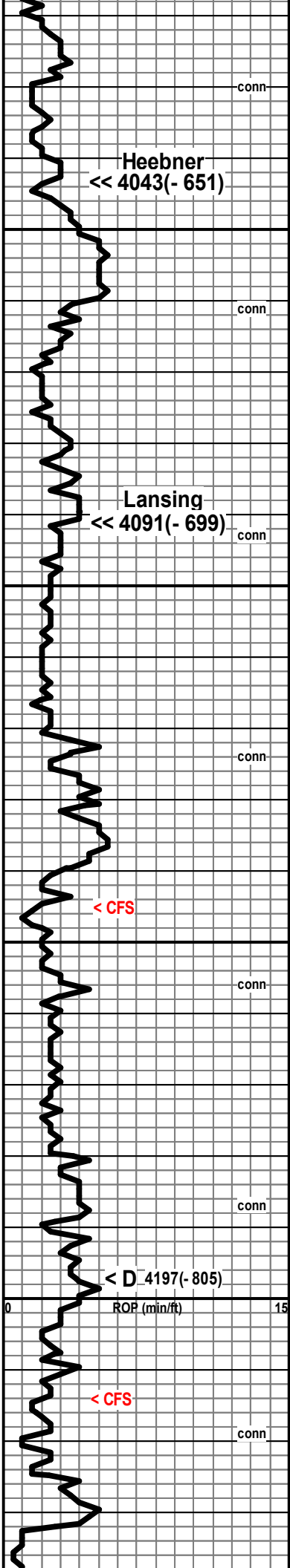
Shale, gy, silty

Vis 55 Wt 9.0 LCM 2#

START 10' WET & DRY @ 3910'

Topeka  
<< 3864 (- 472)

conn  
conn  
conn  
conn  
conn  
conn  
conn  
conn



LS, tan-crm, fxln, arg-chky, sltly foss, NV por + Shale, blk-gy & gn

LS, gy-brn, f-vfxln, arg, foss, NV por

Shale, blk carb

LS, crm-tan, fxln, foss, rr P vgy por, hd, NS

Shale, gy-blk

LS, off wh-tan, vfxln, foss-sub ool, few pc's P vgy por, NS

LS, gy-brn, vfxln, sltly foss, NV por, dns

Shale, gy-gn, silty

LS, crm-tan, vf-fxln, ool, P iool por, NS

LS, crm-off wh, vfxln, ool, NV por, hd + LS, brn-tan-gy, micxln, sltly foss, NV por, dns

Shale, blk + LS, brn, vfxln, sltly foss-ool, NV por, dns

Shale, gn & red, sltly silty

LS, crm-off wh, dolo, fxln, P ixln por, chty IP, hd, NS

Dolo, brn-tan, f-vfxln, sltly foss, P ixln por, NS + LS AA

LS, crm-tan-lt gy, vf-micxln, chky-dns, NV por + Cht, tan-crm, sltly foss, opq

LS, crm-tan, vf-micxln, chty, sltly foss, rr P vgy por, NS, hd

LS, crm-lt gy, f-mxln, sltly foss, P ixln por, NS, dns

Shale, blk carb-dk gy

LS, lt gy-crm, vf-mxln, sub ool-foss, NV por

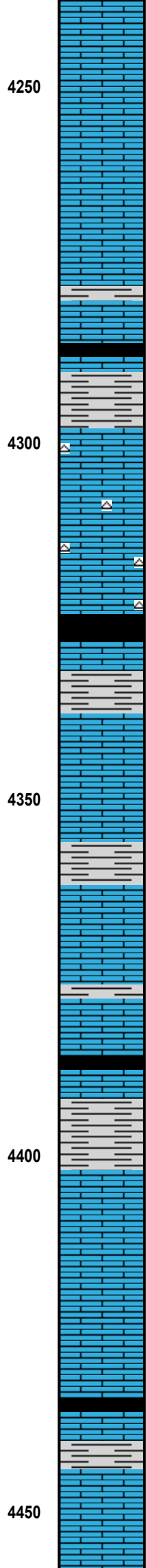
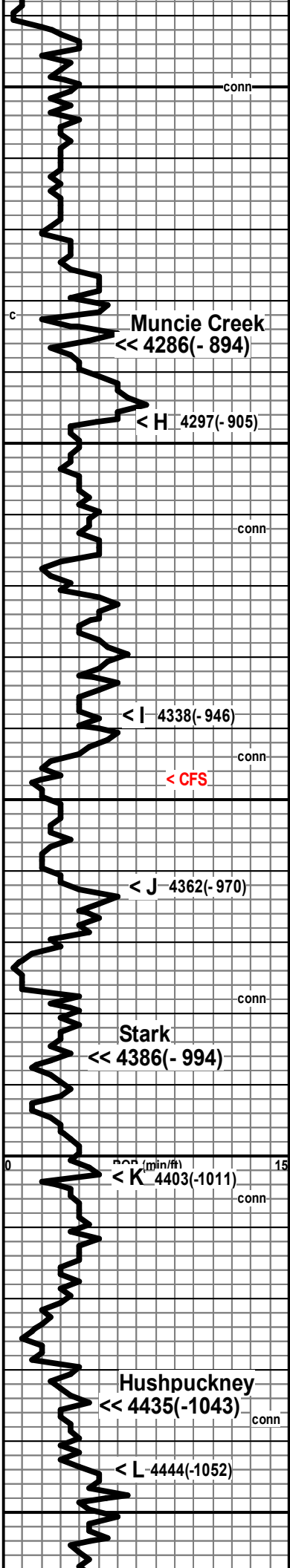
LS, gy-tan, fxln, gran, chky IP, P ixln por & P ipart por, NS + Shale, dk gy-gn & blk

LS, tan-lt gy, vfxln, gran, sub ool-foss, NV por, hd

LS, crm-lt gy, vf-micxln, chty IP, NV por, dns

LS, brn-crm, f-vfxln, ool, P oom por, NS

Vis 67 Wt 8.9 Fil 6.4 PH 11  
 Chl 2,500 LCM 3#  
 6/06/2017 @ 4145



LS, crm-off wh, vf-fxl, sub ool, P oom por, NS, chky-dns + LS, brn-lt gy, vfxln, sltly foss, NV por, dns

LS, tan-lt gy, vf-micxln, dns + LS, brn-tan, f-vfxln, ool-foss, P pp-vgy por, NS

LS, gy-tan, micxln, chty, rr P vgy por, NS, dns + Shale, dk gy

Shale, blk carb (4300 spl)

Shale, gy-blk & gn

LS, lt gy-tan, micxln, chty, sltly foss, NV por, V hd

LS, lt gy-off wh, micxln, chty, NV por, dns + Cht, lt gy-tan, sltly foss, opq

LS, crm-white, f-vfxln, sltly foss-ool, NV por, hd + Cht, lt gy-off wh, sltly foss, opq

Inc Shale, blk carb, dk gy & red + LS, brn, micxln, NV por, dns

Shale, vcol

LS, gy-brn, f-vfxln, sltly foss, chty IP, NV por, hd

LS, gy-tan, f-vfxln, foss & ool, chky IP, sltly mot, rr P ipart por, NS

Shale, dk gy-blk

LS, brn-gy, fxln, arg, sltly foss, NV por, hd

LS, tan-gy, f-vfxln, ool, F-P oom por, NS

LS, dk brn-gy, vf-micxln, sltly foss, NV por, dns

Shale, blk carb

LS, gy-tan, vf-micxln, sltly foss, NV por, dns + Shale, gy, mar, gn & blk

LS, gy, f-vfxln, arg, sltly foss, NV por,

LS, tan-gy-brn, vfxln, NV por, dns

LS, tan-gy, vf-fxl, sub ool-foss, chky IP, rr P vgy-pp por, NS

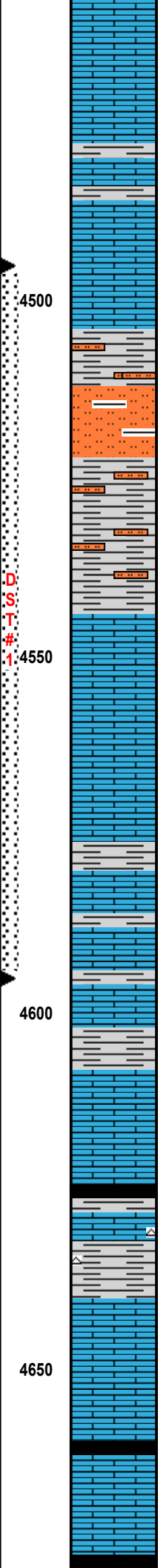
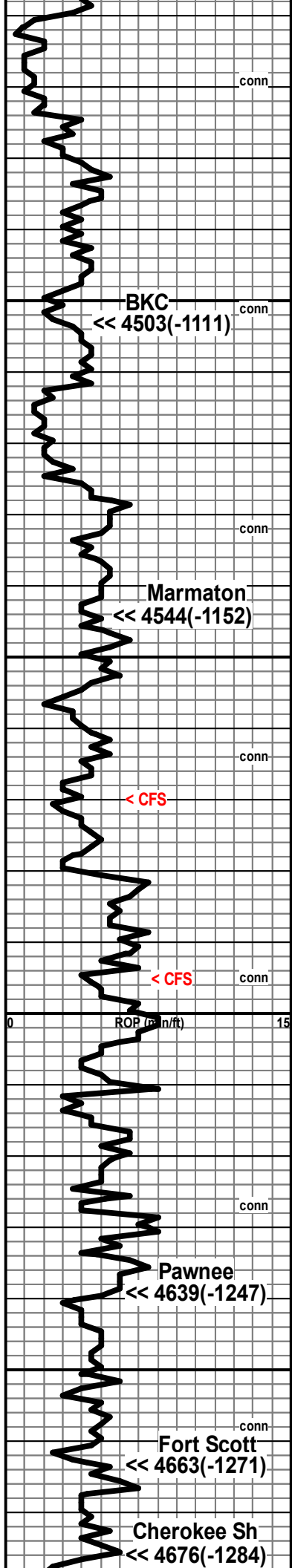
Shale, blk carb

LS, gy-tan, fxln, sltly foss, arg, NV por, hd + Shale, blk-dk gy

LS, gy-tan, vf-micxln, sltly foss, NV por, dns

Work on blocks @ 4250"

Vis 56 Wt 9.1



LS, brn-gy, vfxln, chky, ool & foss, rr P vgy por, NS

LS, dk brn-gy, micxln, few foss frag, NV por, dns + Shale, dk gy-pyr & mar

LS, dk gy-brn, micxln, NV por, dns + LS, brn, vfxln, V ool, NV por, dns & Shale, gy-gn

Shale, gy-gn, silty

Sltst, gy-gn & mar + Shale, vcol

Sltst, gy-gn & mar + Shale, bk-dk gy, red & gn, HTW

Shale, gy, bk, gn & mar + Sltst vcol & abnd pyr, HTW

LS, brn-gy-crm, vf-micxln, ool w/ foss frag, NV por, hd + LS, brn-gy, vf-micxln, NV por, dns

LS, gy-brn, f-mxln, ool, F-P ixln & iool por, rr spt'd res stn w/ pp SFO, N odor

LS, gy-tan, fxln, ool, sub chky-dns, F-P iool por, NS

LS, gy-tan, f-vfxln, sub ool-ool, chky-dns, NV por

LS, gy-tan, f-vfxln, arg, sltly foss, NV por + Abnd Shale, black carb, gy & mar w/ pyr

LS, dk brn-gy, micxln, sltly foss, NV por, dns + LS, tan, f-vfxln, chky IP, NV por m hd

LS, dk gy-blk, vf-micxln, arg, NV por, dns + Shale, blk-dk gy

LS, gy-tan, vf-fxln, sub ool w/ foss frag, NV por, dns + LS, lt-gy, tan, micxln, NV por, dns & Shale, gy, gn & mar

LS, tan-brn, fxln, chky IP, dk ool, NV por, hd + LS, gy, vf-fxln, sltly foss, arg, NV por, dns & Shale, vcol

Shale, blk carb & vcol, abnd pyr w/ few pc's cht, blk, opq, sltly foss, HTW + LS, gy-dk gy, f-vfxln, arg, few foss frag, dns

LS, tan-brn, fxln, ool-foss, chky IP, NV por, hd + LS, brn-gy, micxln, foss, dns

LS, dk gy-brn, vf-micxln, foss, NV por, dns + abnd Shale, blk-dk gy

Shale, blk carb

LS, brn-gy-crm, f-vfxln, ool w/ foss frag, NV por, dns + LS, brn-gy, vf-micxln, sltly foss, NV por, dns

Shale, blk carb

Vis 51 Wt 9.3 Fil 8.8 PH 10.5  
Chl 6,500 LCM 4#  
6/07/2017 @ 4498

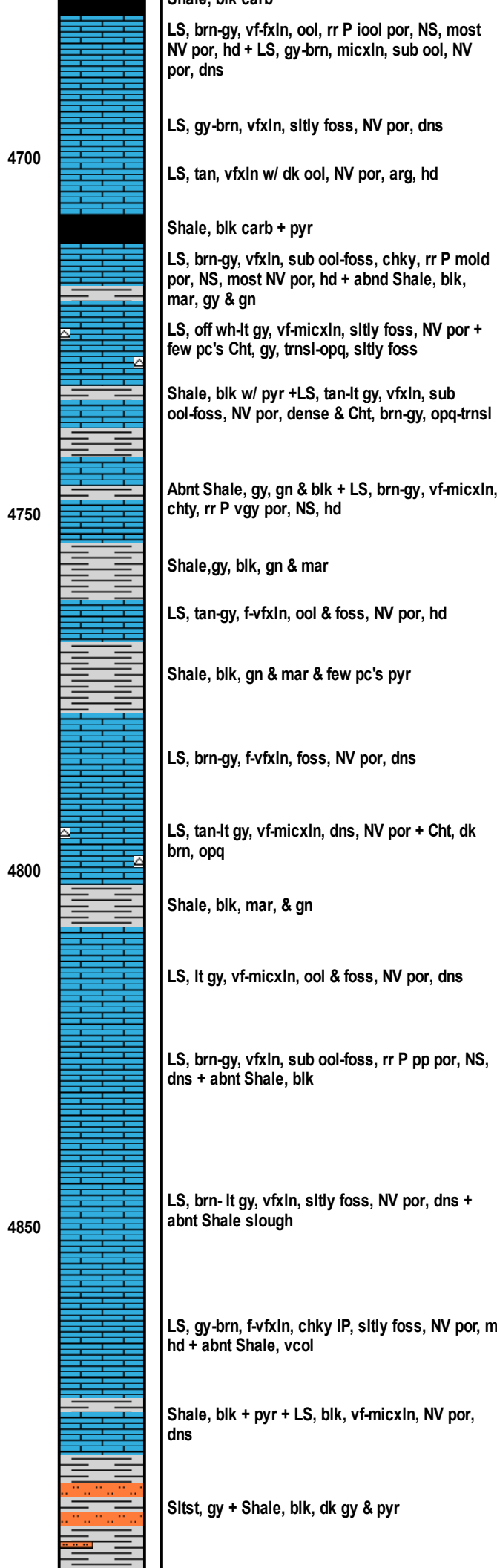
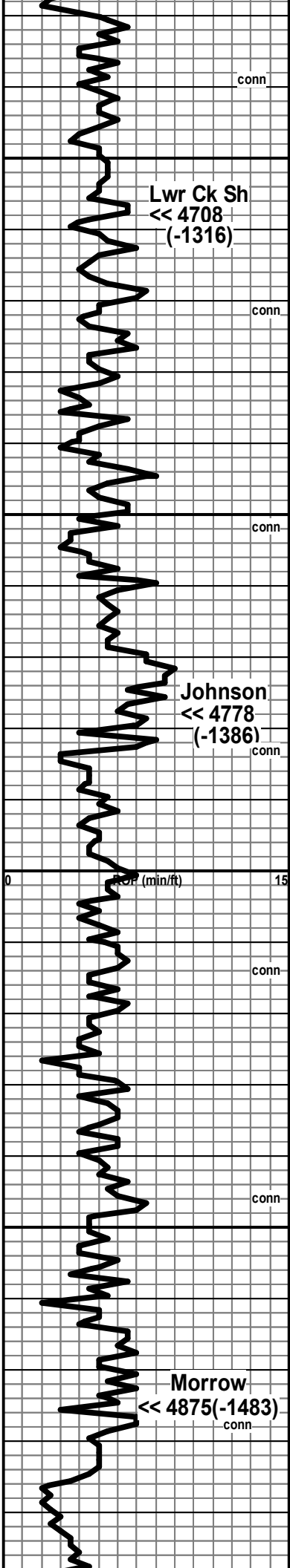
Pipe Strap @ 4595  
Strap 1.10' short  
Survey 1 deg

Ran 20 stand short trip prior to DST #1.  
Rain flooded location and tester got stuck in mud. Went back to bottom with bit and CTCH while waiting for bulldozer to pull tester to catwalk. Tripped out bit and proceeded with test.

**DST#1 4495-4595**  
(Marmaton A & B)  
30 45 45 60  
BLOW:  
IF 1/2"  
FF No blow  
RECOVERY: 40' M w/ oil spots  
IH 2257  
IF 19 - 25  
ISI 1258  
FF 28 - 36  
FSI 1240  
FH 2210 BHT 111 deg F

Vis 64 Wt 9.4 Fil 9.6 PH 10.5  
Chl 8,700 LCM 2#  
6/08/2017 @ 4595

Vis 57 Wt 9.1 LCM 2.5#



Shale, blk carb

LS, brn-gy, vfxln, ool, rr P iool por, NS, most NV por, hd + LS, gy-brn, micxln, sub ool, NV por, dns

LS, gy-brn, vfxln, sltly foss, NV por, dns

LS, tan, vfxln w/ dk ool, NV por, arg, hd

Shale, blk carb + pyr

LS, brn-gy, vfxln, sub ool-foss, chky, rr P mold por, NS, most NV por, hd + abnd Shale, blk, mar, gy & gn

LS, off wh-lt gy, vf-micxln, sltly foss, NV por + few pc's Cht, gy, trnsI-opq, sltly foss

Shale, blk w/ pyr +LS, tan-lt gy, vfxln, sub ool-foss, NV por, dense & Cht, brn-gy, opq-trnsI

Abnt Shale, gy, gn & blk + LS, brn-gy, vf-micxln, chty, rr P vgy por, NS, hd

Shale,gy, blk, gn & mar

LS, tan-gy, f-vfxln, ool & foss, NV por, hd

Shale, blk, gn & mar & few pc's pyr

LS, brn-gy, f-vfxln, foss, NV por, dns

LS, tan-lt gy, vf-micxln, dns, NV por + Cht, dk brn, opq

Shale, blk, mar, & gn

LS, lt gy, vf-micxln, ool & foss, NV por, dns

LS, brn-gy, vfxln, sub ool-foss, rr P pp por, NS, dns + abnt Shale, blk

LS, brn- lt gy, vfxln, sltly foss, NV por, dns + abnt Shale slough

LS, gy-brn, f-vfxln, chky IP, sltly foss, NV por, m hd + abnt Shale, vcol

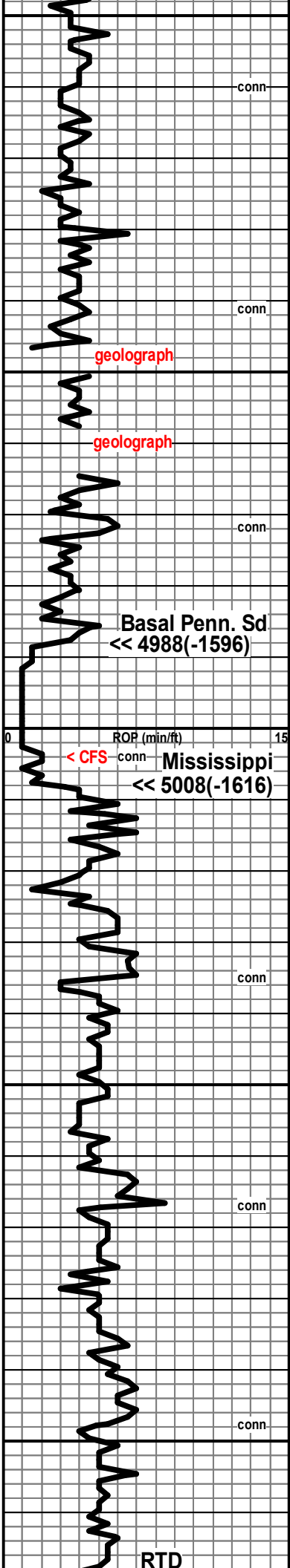
Shale, blk + pyr + LS, blk, vf-micxln, NV por, dns

Siltst, gy + Shale, blk, dk gy & pyr

Vis 52 Wt 9.2 Fil 8.0 PH 10.5  
 Chl 6,000 LCM 3#  
 6/09/2017 @ 4708

Vis 51 Wt 9.3 LCM 2#





4900  
4950  
5000  
5050  
5100

Sitst, gy-blk + Shale vcol & pyr

Shale, gy, blk, gn & mar + abnt pyr & few clus SS, fgrn, ang, well sort, calc, comp, NV por

Shale, blk, gn, gy & mar + pyr + few pc's LS, crm-brn, vfxln, gran, ool-foss, P ipart por, NS

Shale, blk, gn, gy & mar + Sitst, gy-gn

Most shale, blk, gn, gy & mar w/ few clus SS, tan-gy, fgrn,rd, well sort, glauc & arg, fri, P ig por, NS

SS, lt gy-crm, vfgrn, rd, well sort, comp, P ig por, NS, arg

SS, lt gy-gn, wh-clr qtz, f-vfgrn, rd, mod-well sort, pyr & arg, fri-comp, F-P ig por, NS + Cht, orng-wh, opq-trnsl

LS, tan-off wh-lt gy, fxln, sdy, chky IP, NV por, hd

LS, wh-crm, fxln, chky, sdy, sft, NV por + SS, wh-gn, vfgrn, rd, well sort, comp, P ig por, NS, ? new

LS, crm, vfxln, sdy, f-mgrn, NV por, hd + LS, tan-brn, vfxln, sub ool-foss, NV por, hd

LS, crm-lt gy, fxln, sdy, fgrn, chky, NV por, m hd + LS, lt gy-brn, vf-fxln, sltly foss, NV por, dns

LS, gy-brn, vf-fxln, sltly foss-ool, NV por, hd + abnd Shale, vcol (slough)

LS, crm-tan, f-vfxln, sub ool, chky IP, NV por, m hd + LS, crm-gy, f-mxln, sub ool-foss, NV por, dns

LS, brn-gy, vfxln-fxln, sltly sdy & foss, NV por, chky IP-dns

LS, gy-tan, fxln, sdy, fgrn, chky IP, NV por, hd + LS, tan-brn, vf-micxln, sub ool-foss, NV por

LS, tan-brn, micxln, chty IP, NV por, dns

Vis 63 Wt 9.3 Fil 8.8 PH 10.5  
Chl 8,000 LCM 3#  
6/10/2017 @ 4972

Vis 56 Wt 9.3 LCM 3#

geograph

geograph

Basal Penn. Sd  
<< 4988(-1596)

Mississippi  
<< 5008(-1616)

ROP (min/ft)

< CFS

conn

RTD

conn

conn

conn

conn

conn

conn

< CFS << 5120(-1728)  
6/10/2017  
9:30 PM

HALLIBURTON LTD 5118(-1726)

LARIO OIL & GAS CO.  
KOEHN #1-6  
2018' FNL & 602' FWL  
Section 6-T17S-R37W  
Wichita Co., Kansas  
API#15-203-201319-00-00

5150

Survey @ 5120, 1/2 deg