



KANSAS CORPORATION COMMISSION 1075017  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

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

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

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

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

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

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

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



1075017

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

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

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

|   |   |
|---|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No<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>Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No<br><i>(If no, Submit Copy)</i><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 |
| _____ Perforate<br>_____ Protect Casing<br>_____ Plug Back TD<br>_____ Plug Off Zone |                  |                |              |                            |
|  |                  |                |              |                            |

| Shots Per Foot | PERFORATION RECORD - Bridge Plugs Set/Type<br>Specify Footage of Each Interval Perforated | Acid, Fracture, Shot, Cement Squeeze Record<br><i>(Amount and Kind of Material Used)</i> | Depth |
|----------------|---|--|-------|
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |
|                |   |  |       |

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

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

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

|   |  |  |
|---|--|--|
| 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> <input type="checkbox"/> Other <i>(Specify)</i> _____<br><input type="checkbox"/> Other <i>(Specify)</i> _____ | PRODUCTION INTERVAL:<br>_____<br>_____ |
|---|--|--|

|           |                         |
|-----------|-------------------------|
| Form      | ACO1 - Well Completion  |
| Operator  | Hansen, Dane G. - Trust |
| Well Name | DINKEL 11               |
| Doc ID    | 1075017                 |

Tops

| Name         | Top  | Datum |
|--------------|------|-------|
| Anhydrite    | 1552 | +713  |
| Base Anhy    | 1600 | +665  |
| Topeka       | 3237 | -972  |
| Heebner      | 3491 | -1226 |
| Toronto      | 3512 | -1247 |
| Lansing      | 3531 | -1266 |
| Base KC      | 3784 | -1519 |
| Marm Chert   | 3829 | -1564 |
| Arbuckle     | 3875 | -1610 |
| Reagan Sd    | 3972 | -1707 |
| Granite Wash | 3990 | -1725 |



## DRILL STEM TEST REPORT

Prepared For: **Dane G Hansen Trust**

PO Box 187  
Logan KS 67646

ATTN: Richard Wallgren Sr

**3-14s-20w Ellis,KS**

**Dinkel #11**

Start Date: 2011.07.13 @ 22:00:32

End Date: 2011.07.14 @ 04:15:56

Job Ticket #: 43623                      DST #: 5

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

Printed: 2012.02.23 @ 10:29:38

Dane G Hansen Trust  
Dinkel #11  
3-14s-20w Ellis,KS  
DST # 5  
Arbuckle  
2011.07.13



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Dane G Hansen Trust  
PO Box 187  
Logan KS 67646  
ATTN: Richard Wallgren Sr

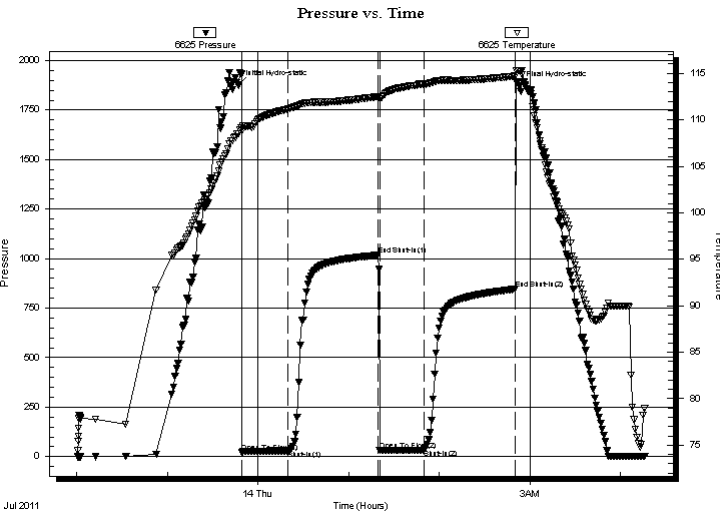
**Dinkel #11**  
**3-14s-20w Ellis,KS**  
Job Ticket: 43623 **DST#: 5**  
Test Start: 2011.07.13 @ 22:00:32

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 23:49:27  
Time Test Ended: 04:15:56  
Interval: **3862.00 ft (KB) To 3880.00 ft (KB) (TVD)**  
Total Depth: 3880.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Reset)  
Tester: Ray Schwager  
Unit No: 42  
Reference Elevations: 2265.00 ft (KB)  
2257.00 ft (CF)  
KB to GR/CF: 8.00 ft

**Serial #: 6625 Inside**  
Press @ Run Depth: 35.54 psig @ 3863.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2011.07.13 End Date: 2011.07.14 Last Calib.: 2011.07.14  
Start Time: 22:00:32 End Time: 04:15:56 Time On Btm: 2011.07.13 @ 23:46:57  
Time Off Btm: 2011.07.14 @ 02:52:56

TEST COMMENT: 30-IFP-w k bl 1/4" to 1 1/4" bl  
60-ISIP-no bl  
30-FFP-no bl  
60-FSIP-no bl to surface bl



## PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation           |
|-------------|-----------------|--------------|----------------------|
| 0           | 1877.04         | 108.52       | Initial Hydro-static |
| 3           | 24.01           | 108.85       | Open To Flow (1)     |
| 33          | 30.57           | 111.18       | Shut-In(1)           |
| 93          | 1017.89         | 112.50       | End Shut-In(1)       |
| 94          | 32.89           | 112.27       | Open To Flow (2)     |
| 123         | 35.54           | 113.82       | Shut-In(2)           |
| 183         | 845.97          | 114.70       | End Shut-In(2)       |
| 186         | 1875.25         | 115.31       | Final Hydro-static   |

## Recovery

| Length (ft) | Description    | Volume (bbl) |
|-------------|----------------|--------------|
| 39.00       | HOCM 40% O60%M | 0.27         |
| 1.00        | CO             | 0.01         |
|             |                |              |
|             |                |              |
|             |                |              |

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE**  
TESTING, INC

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Dane G Hansen Trust

**Dinkel #11**

PO Box 187  
Logan KS 67646

**3-14s-20w Ellis, KS**

Job Ticket: 43623

**DST#: 5**

ATTN: Richard Wallgren Sr

Test Start: 2011.07.13 @ 22:00:32

## Tool Information

|                           |                    |                       |                                |                        |             |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe:               | Length: 3830.00 ft | Diameter: 3.80 inches | Volume: 53.72 bbl              | Tool Weight:           | 2200.00 lb  |
| Heavy Wt. Pipe:           | Length: 0.00 ft    | Diameter: 0.00 inches | Volume: 0.00 bbl               | Weight set on Packer:  | 25000.00 lb |
| Drill Collar:             | Length: 30.00 ft   | Diameter: 2.25 inches | Volume: 0.15 bbl               | Weight to Pull Loose:  | 65000.00 lb |
|                           |                    |                       | <u>Total Volume: 53.87 bbl</u> | Tool Chased            | 0.00 ft     |
| Drill Pipe Above KB:      | 26.00 ft           |                       |                                | String Weight: Initial | 59000.00 lb |
| Depth to Top Packer:      | 3862.00 ft         |                       |                                | Final                  | 59000.00 lb |
| Depth to Bottom Packer:   | ft                 |                       |                                |                        |             |
| Interval between Packers: | 18.00 ft           |                       |                                |                        |             |
| Tool Length:              | 46.00 ft           |                       |                                |                        |             |
| Number of Packers:        | 2                  | Diameter: 6.75 inches |                                |                        |             |

Tool Comments:

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|----------------|
|------------------|-------------|------------|----------|------------|----------------|

|                 |       |      |         |         |                               |
|-----------------|-------|------|---------|---------|-------------------------------|
| Change Over Sub | 1.00  |      |         | 3835.00 |                               |
| Shut In Tool    | 5.00  |      |         | 3840.00 |                               |
| Hydraulic tool  | 5.00  |      |         | 3845.00 |                               |
| Jars            | 5.00  |      |         | 3850.00 |                               |
| Safety Joint    | 2.00  |      |         | 3852.00 |                               |
| Packer          | 5.00  |      |         | 3857.00 | 28.00 Bottom Of Top Packer    |
| Packer          | 5.00  |      |         | 3862.00 |                               |
| Stubb           | 1.00  |      |         | 3863.00 |                               |
| Recorder        | 0.00  | 6625 | Inside  | 3863.00 |                               |
| Recorder        | 0.00  | 8700 | Outside | 3863.00 |                               |
| Perforations    | 14.00 |      |         | 3877.00 |                               |
| Bullnose        | 3.00  |      |         | 3880.00 | 18.00 Bottom Packers & Anchor |

**Total Tool Length: 46.00**



**TRILOBITE**  
**TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Dane G Hansen Trust

**Dinkel #11**

PO Box 187  
Logan KS 67646

**3-14s-20w Ellis,KS**

Job Ticket: 43623

**DST#: 5**

ATTN: Richard Wallgren Sr

Test Start: 2011.07.13 @ 22:00:32

**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: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.56 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

| Length<br>ft | Description   | Volume<br>bbl |
|--------------|---------------|---------------|
| 39.00        | HOCM 40%O60%M | 0.274         |
| 1.00         | CO            | 0.014         |

Total Length: 40.00 ft      Total Volume: 0.288 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



Serial #: 6625

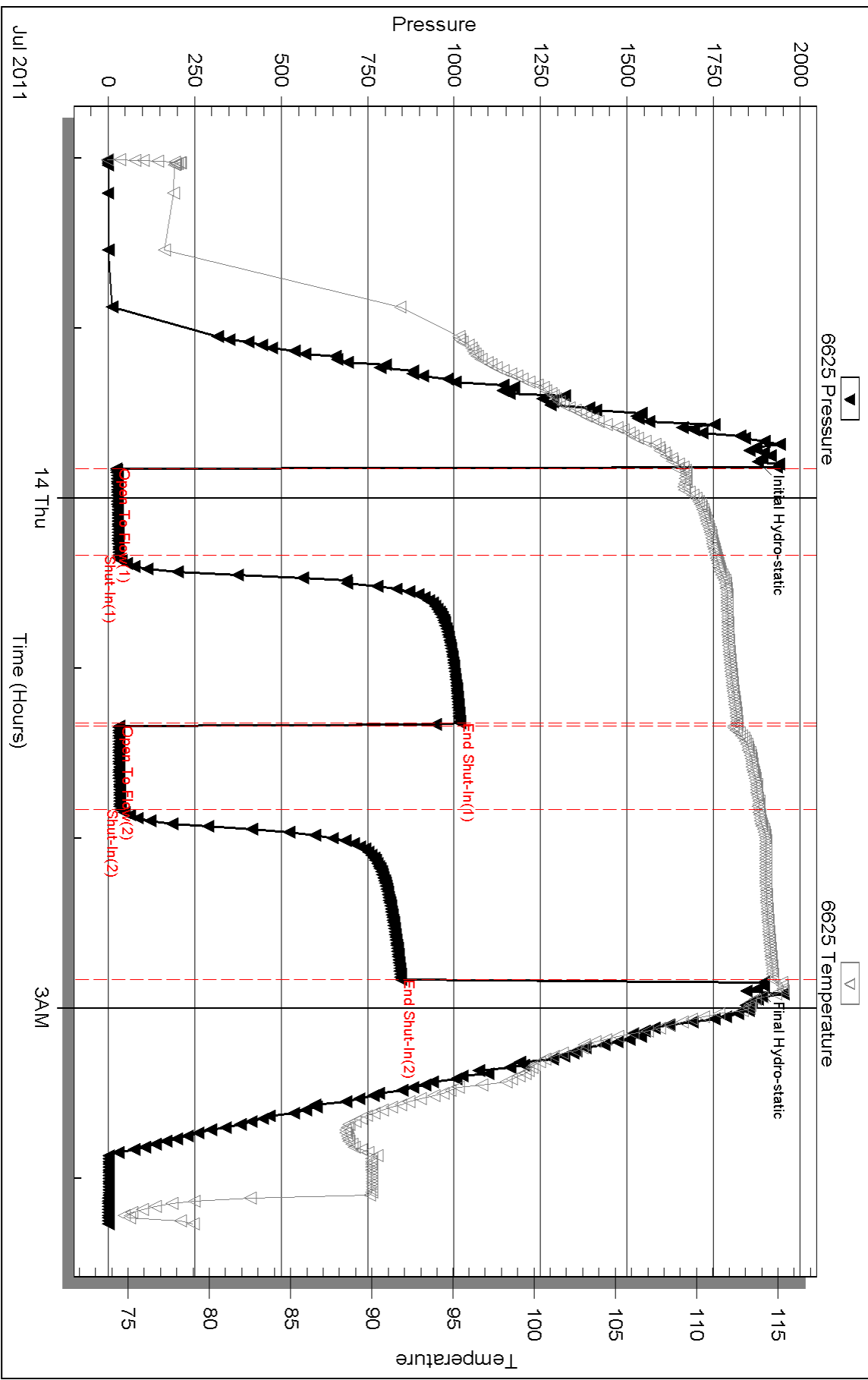
Inside

Dane G Hansen Trust

3-14s-20w Ellis KS

DST Test Number: 5

### Pressure vs. Time



Triobite Testing, Inc

Ref. No: 43623

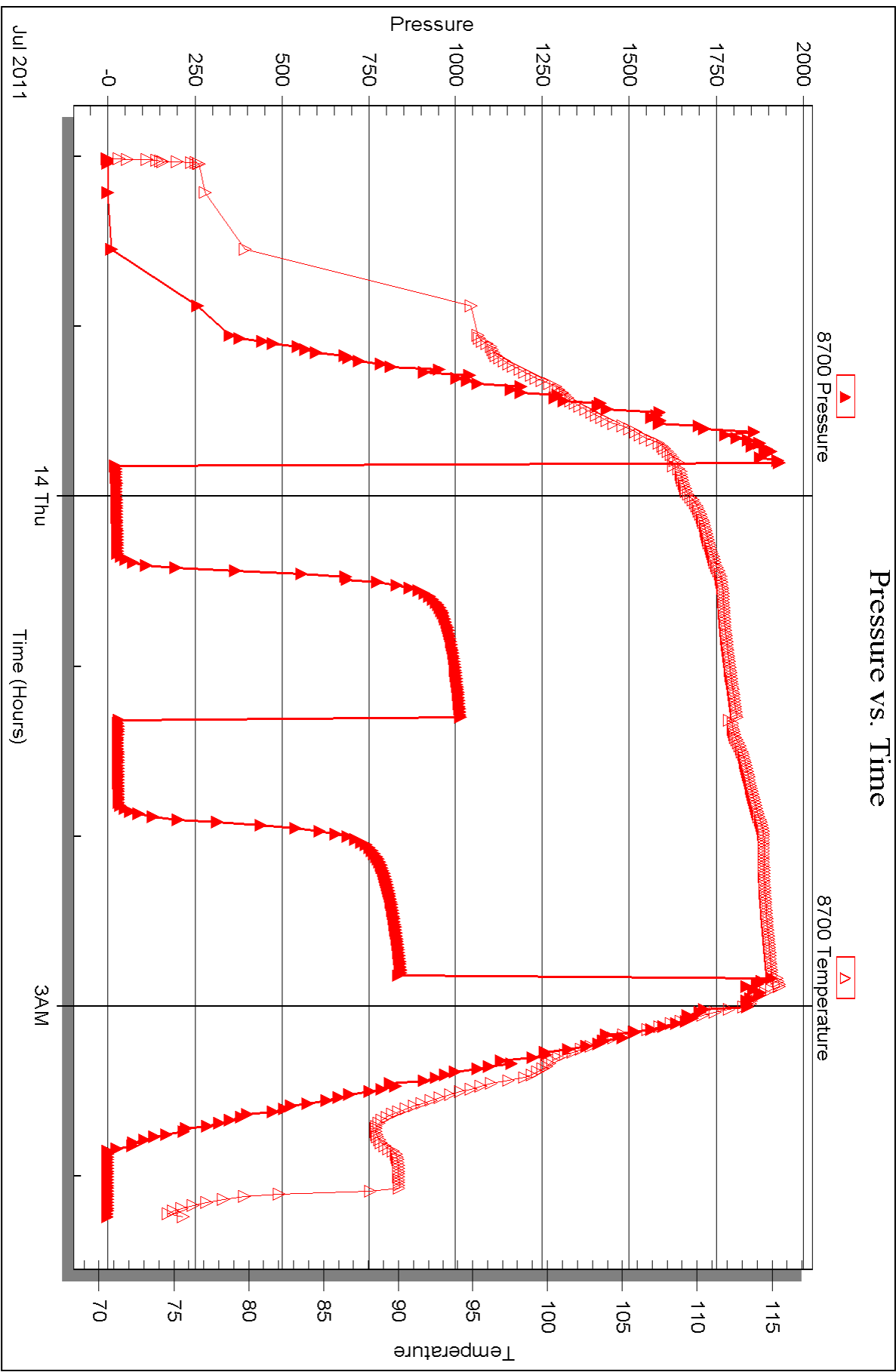
Printed: 2012.02.23 @ 10:29:40

Serial #: 8700

Outside Dane G Hansen Trust

3-14s-20w Ellis KS

DST Test Number: 5



Triobite Testing, Inc

Ref. No: 43623

Printed: 2012.02.23 @ 10:29:40



CHARGE TO:  
*D. G. Huson Trust*  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET  
 19843

PAGE 1 OF 2

|   |  |                                   |  |                          |                                     |                        |       |
|---|--|-----------------------------------|--|--------------------------|-------------------------------------|------------------------|-------|
| SERVICE LOCATIONS<br>1. <i>Hays, Ks</i> | WELL/PROJECT NO.<br><i>#11</i>   | LEASE<br><i>Dinkel</i>            | COUNTY/PARISH<br><i>Ellis</i>                | STATE<br><i>Ks</i>       | CITY                                | DATE<br><i>7-15-11</i> | OWNER |
| 2. <i>Ness City, Ks</i>                 | TICKET TYPE<br><input checked="" type="checkbox"/> SERVICE<br><input type="checkbox"/> SALES | CONTRACTOR<br><i>Duncan, Doug</i> | RIG NAME/NO.<br><i>#1 (C11.0)</i>            | SHIPPED VIA<br><i>TR</i> | DELIVERED TO<br><i>SE/ELLIS, Ks</i> | ORDER NO.              |       |
| 3.                                      | WELL TYPE<br><i>oil</i>  | WELL CATEGORY<br><i>infid</i>     | JOB PURPOSE<br><i>Cement 2 stroke string</i> | WELL PERMIT NO.          | WELL LOCATION                       |                        |       |
| 4. REFERRAL LOCATION                    | INVOICE INSTRUCTIONS   |                                   |  |                          |                                     |                        |       |

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | DESCRIPTION                    | QTY. |     | U/M |          | UNIT PRICE | AMOUNT  |
|-----------------|-------------------------------------|------------|------|----|--------------------------------|------|-----|-----|----------|------------|---------|
|                 |                                     | LOC        | ACCT | DF |                                |      |     |     |          |            |         |
| 575             |                                     | 1          |      |    | MILEAGE #113                   |      | 50  | mi  |          | 5.00       | 250.00  |
| 577             |                                     | 1          |      |    | Pump Charge - out 2 stroke     |      | 1   | ea  | 3750     | 1400.00    | 1400.00 |
| 221             |                                     | 1          |      |    | Liquid M.L.                    |      | 4   | gal |          | 25.00      | 100.00  |
| 381             |                                     | 1          |      |    | Mud Flush                      |      | 500 | gal |          | 1.00       | 500.00  |
| 390             |                                     | 1          |      |    | D-Air                          |      | 4   | gal |          | 35.00      | 140.00  |
| 402             |                                     | 1          |      |    | Centralizers                   |      | 7   | ea  | 5 1/2 in | 65.00      | 455.00  |
| 403             |                                     | 1          |      |    | Cement Baskets                 |      | 2   | ea  | 5 1/2 in | 230.00     | 460.00  |
| 407             |                                     | 1          |      |    | Insert Float Stop w/ Anti Fall |      | 1   | ea  | 5 1/2 in | 300.00     | 300.00  |
| 408             |                                     | 1          |      |    | D.W. Tool Set                  |      | 1   | ea  | 5 1/2 in | 2750.00    | 2750.00 |
| 417             |                                     | 1          |      |    | D.W. Latch Down Plug + Baffle  |      | 1   | ea  | 5 1/2 in | 300.00     | 300.00  |
| 419             |                                     | 1          |      |    | Rotating Head Rental           |      | 1   | ea  | 5 1/2 in | 150.00     | 150.00  |

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS

X

DATE SIGNED: *7-15-11* TIME SIGNED: *0300*

A.M.  
 P.M.

REMIT PAYMENT TO:  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

| SURVEY   | AGREE | UN-DECIDED | DIS-AGREE |               | AMOUNT   |
|--|-------|------------|-----------|---------------|----------|
| OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?   |       |            |           | P1 PAGE TOTAL | 6705.00  |
| WE UNDERSTOOD AND MET YOUR NEEDS?  |       |            |           | P2            | 7145.65  |
| OUR SERVICE WAS PERFORMED WITHOUT DELAY?   |       |            |           |               | 13870.65 |
| WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?                                   |       |            |           | TAX           |          |
| ARE YOU SATISFIED WITH OUR SERVICE?<br><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO |       |            |           | TOTAL         |          |
| <input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND  |       |            |           |               |          |

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *[Signature]* APPROVAL:

Thank You!



PO Box 466.  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 19843

CUSTOMER: D. G. Houston Trust  
WELL: #11 Dinkel  
DATE: 7-15-11  
PAGE: 2 OF 2

| PRICE REFERENCE | SECONDARY REFERENCE/<br>PART NUMBER | ACCOUNTING |      |    | TIME | DESCRIPTION           | QTY.                 |                 | U/M              |     | UNIT PRICE | AMOUNT  |
|-----------------|-------------------------------------|------------|------|----|------|-----------------------|----------------------|-----------------|------------------|-----|------------|---------|
|                 |                                     | LOC        | ACCT | DF |      |                       |                      |                 |                  |     |            |         |
| 225             |                                     | 2          |      |    |      | Standard Cement FH-2  | 150                  | SKS             | 19100            | lbs | 12.00      | 1800.00 |
| 276             |                                     | 2          |      |    |      | Flocalm               | 35                   | lbs             |                  |     | 1.52       | 53.20   |
| 223             |                                     | 2          |      |    |      | Salt                  | 750                  | lbs             |                  |     | .15        | 112.50  |
| 224             |                                     | 2          |      |    |      | Catsol                | 705                  | lbs             | 2                | SKS | 30.00      | 2115.00 |
| 286             |                                     | 2          |      |    |      | Malact-1              | 71                   | lbs             |                  |     | 7.00       | 497.00  |
| 220             |                                     | 2          |      |    |      | SWD Cement            | 300                  | SKS             | 19853            | lbs | 1.50       | 450.00  |
| 276             |                                     | 2          |      |    |      | Flocalm               | 50                   | lbs             |                  |     | 1.50       | 75.00   |
| 351             |                                     | 2          |      |    |      | SERVICE CHARGE Cement |                      |                 |                  |     | 1.57       | 525.00  |
| CR3             |                                     | 2          |      |    |      | MILEAGE CHARGE        | TOTAL WEIGHT 355 lbs | LOADED MILES 50 | TON MILES 889.15 |     | 1.00       | 889.15  |

CONTINUATION TOTAL 7165.65

**JOB LOG**

**SWIFT Services, Inc.**

DATE 7-15-11 PAGE NO. 1

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS |   | PRESSURE (PSI) |        | DESCRIPTION OF OPERATION AND MATERIALS        | TICKET NO. |
|-----------|------|------------|--------------------|-------|---|----------------|--------|---|------------|
|           |      |            |                    | T     | C | TUBING         | CASING |   |            |
|           | 0805 |            |                    |       |   |                |        | TD 2250                                       | 7-15-11    |
|           | 1315 |            |                    |       |   |                |        | On location w/ F.E.                           | 198-43     |
|           |      |            |                    |       |   |                |        | Skirt 5 1/2" - 1005' 901' casing              |            |
|           |      |            |                    |       |   |                |        | Insert Final Stop w/ A-10 Seal                |            |
|           |      |            |                    |       |   |                |        | L.D. BALL (OD) - 53.122 1/2" to 59.12'        |            |
|           |      |            |                    |       |   |                |        | Cont. Cables 1-3-5-7-9-57-60                  |            |
|           |      |            |                    |       |   |                |        | Cont. Cables 31' to 47' 58"                   |            |
|           |      |            |                    |       |   |                |        | D.W. Tool # 58' to 1531'                      |            |
|           |      |            |                    |       |   |                |        | Drop Ball w/ ball to 10' and                  |            |
|           |      |            |                    |       |   |                |        | Fin run casing                                |            |
|           |      |            |                    |       |   |                |        | Tool-cie / Rotate casing                      |            |
|           |      |            |                    |       |   |                |        | Fin-cie - 1st stop                            |            |
|           |      |            |                    |       |   |                |        | 100 Pump 500gpm 1000' block                   |            |
|           |      |            |                    |       |   |                |        | 200 Pump 20 RPM 100' block                    |            |
|           |      |            |                    |       |   |                |        | 300 Steel 150' 20' Fin-2 cont @ 15.3' / gal   |            |
|           |      |            |                    |       |   |                |        | 400 Fin cont - Wash and Pump 4' Lenses        |            |
|           |      |            |                    |       |   |                |        | 500 Drop Dr. D.D. Plug - Steel Drill          |            |
|           |      |            |                    |       |   |                |        | 600 600' 1/2" - 18' BBI Mand 45' 6" 1/2" 1/2" |            |
|           |      |            |                    |       |   |                |        | 700 Fin 100' - Steel Mand - cement coat       |            |
|           |      |            |                    |       |   |                |        | 800 Fin Mand - Steel 100' block               |            |
|           |      |            |                    |       |   |                |        | 900 Plug Down - Mand - Release (100')         |            |
|           |      |            |                    |       |   |                |        | 0 Drop Dr. Downer tool -                      |            |
|           |      |            |                    |       |   |                |        | 1000 Plug RM - 30 SKS SMD / 100' - 5 SKS 3rd  |            |
|           |      |            |                    |       |   |                |        | 1100 Down D.W. 100' Mand                      |            |
|           |      |            |                    |       |   |                |        | 1200 Steel 155' 50' SMD cont @ 11.7' / gal    |            |
|           |      |            |                    |       |   |                |        | 1300 Fin cont - Drop D.W. Closing Plug        |            |
|           |      |            |                    |       |   |                |        | 1400 Steel 36 1/2" BBI Drill                  |            |
|           |      |            |                    |       |   |                |        | 1500 Plug Down - cont / 10' to 10' (90' SKS)  |            |
|           |      |            |                    |       |   |                |        | Mand - Release - 20'                          |            |
|           |      |            |                    |       |   |                |        | TD Complete - 100'                            |            |
|           |      |            |                    |       |   |                |        | 1600 Wash up / 2' (20' block)                 |            |
|           |      |            |                    |       |   |                |        | 1700 100' Mand, 100' Fin                      |            |
|           |      |            |                    |       |   |                |        | 1800 50' SMD cont @ 11.7' / gal cement        |            |
|           |      |            |                    |       |   |                |        | 1900 Above - Lenses                           |            |
|           |      |            |                    |       |   |                |        | 2000 100' Mand                                |            |
|           |      |            |                    |       |   |                |        | 2100 100' Mand                                |            |

# GEOLOGIC REPORT

## DAVID J. GOLDAK

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

Well Name: Dinkel #11  
Location: Section 3 - T14S - R20W  
License Number: API: 15-051-26164  
Spud Date: 07 / 07 / 2011  
Surface Coordinates: 1361' FNL and 1721' FEL  
Approx. E/2 - W/2 - NE  
Region: Ellis Co., KS  
Drilling Completed: 07 / 14 / 2011  
Bottom Hole Coordinates:  
Ground Elevation (ft): 2257' K.B. Elevation (ft): 2265'  
Logged Interval (ft): 3150' To: 4000' Total Depth (ft): 4000'  
Formation: Precambrian Granite Wash  
Type of Drilling Fluid: Chemical - Andy's Mud

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

### OPERATOR

Company: The Dane G. Hansen Trust  
Address: P. O. Box 187  
Logan, Kansas 67646-0187

### GEOLOGIST

Name: David J. Goldak  
Company: D. J. GOLDAK, INC.  
Address: 155 N. Market, Suite 710  
Wichita, Kansas 67202

### General Info

CONTRACTOR: Dicovery Drilling, Rig #1

#### BIT RECORD:

| No. | Size   | Make       | Jets     | Out  | Feet | Hours |
|-----|--------|------------|----------|------|------|-------|
| 1   | 12-1/4 | JZ-WA417CC | 14-14-14 | 264  | 264  | 3.00  |
| 2   | 7-7/8  | HTC-GX20C  | 14-14-14 | 3616 | 3352 | 57.25 |
| 3   | 7-7/8  | HTC-GX20C  | 14-14-14 | 4000 | 384  | 18.50 |

SURVEYS: 264'-0.25, 3616'-0.75, 4000'-1.00

#### GENERAL DRILLING & PUMP INFORMATION:

Pumping 58 S/M, 7.9 B/M, with 800 psi at the Standpipe.  
Drilling with 35,000-40,000 lbs on bit, at 75-80 RPM.

## Daily Status

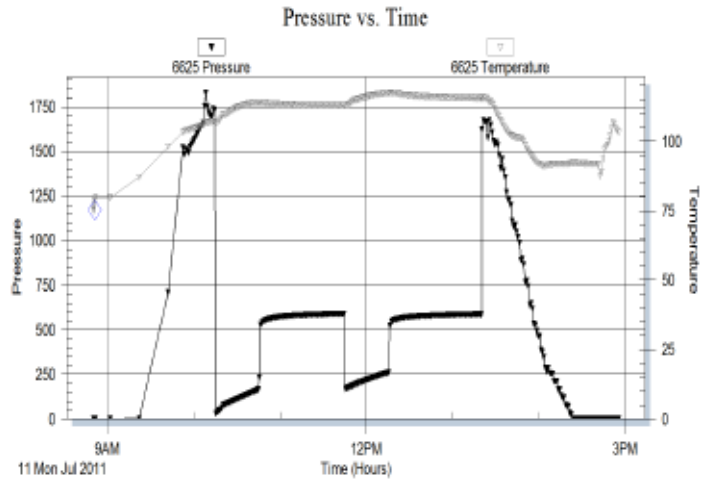
07/07/11 - Spud at 12:00 Noon; Set 8-5/8" Csg at 265'  
 07/08/11 - 675' Drilling  
 07/09/11 - 2,450' Drilling; Displace mud at 2,978'  
 07/10/11 - 3,167' Drilling  
 07/11/11 - 3,616' TOH for DST #1  
 07/12/11 - 3,702' TIH after DST #2; DST #3 in PM  
 07/13/11 - 3,854' TOH for DST #4  
 07/14/11 - 3,880' CTCH after DST #5; RTD 4,000' at 3:00 PM

**DST #1: 3,558' - 3,616' (LKC B - F)**  
 30" - 60" - 30" - 60"

**IF:** Good blow, BOB in 10 minutes  
**ISI:** No blow back  
**FF:** Good blow, BOB in 14 minutes  
**FSI:** No blow back

**RECOVERY:** 500' Total Fluid, consisting of:  
 190' MW w/ show of oil (75% Water, 25% Mud)  
 310' Water; Chlorides: 50,000 ppm

**SIP:** 589-587; **FP:** 32-165, 168-259; **HP:** 1697-1666;  
**BHT:** 115

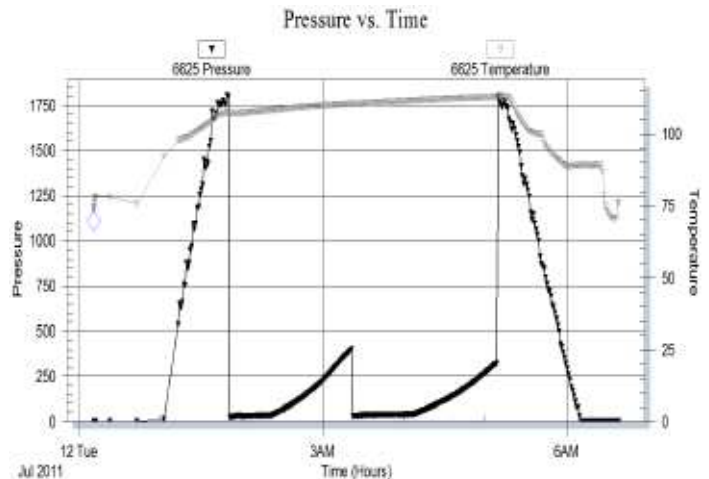


**DST #2: 3,658' - 3,702' (LKC H - I)**  
 30" - 60" - 45" - 60"

**IF:** Weak blow, building to 5-1/2 inches  
**ISI:** No blow back  
**FF:** Good blow, BOB in 9 minutes  
**FSI:** No blow back

**RECOVERY:** 325' GIP & 45' Total Fluid, consisting of:  
 45' HO&GCM (20% Gas, 30% Oil, 25% Mud)

**SIP:** 398-318; **FP:** 25-38, 27-39; **HP:** 1798-1742;  
**BHT:** 113

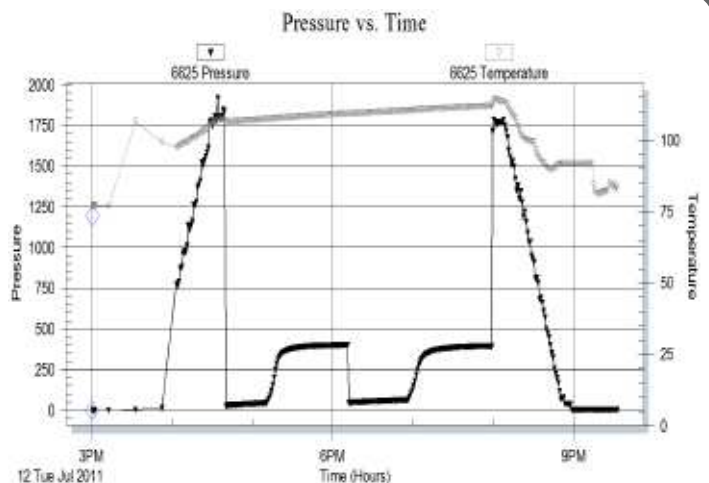


**DST #3: 3,708' - 3,752' (LKC J - K)**  
 30" - 60" - 45" - 60"

**IF:** Weak blow, building to 5 inches  
**ISI:** No blow back  
**FF:** Weak blow, building to 5-1/2 inches  
**FSI:** No blow back

**RECOVERY:** 225' GIP & 75' Total Fluid, consisting of:  
 5' CO (100% Oil); Gravity: 31 API  
 10' O&GCWM (10% Gas, 15% Oil, 15% Water, 60% Mud)  
 60' OCMW (5% Oil, 70% Water, 25% Mud)  
 Chlorides Recovery: 46,000 ppm

**SIP:** 399-393; **FP:** 25-43, 44-63; **HP:** 1786-1767; **BHT:** 112

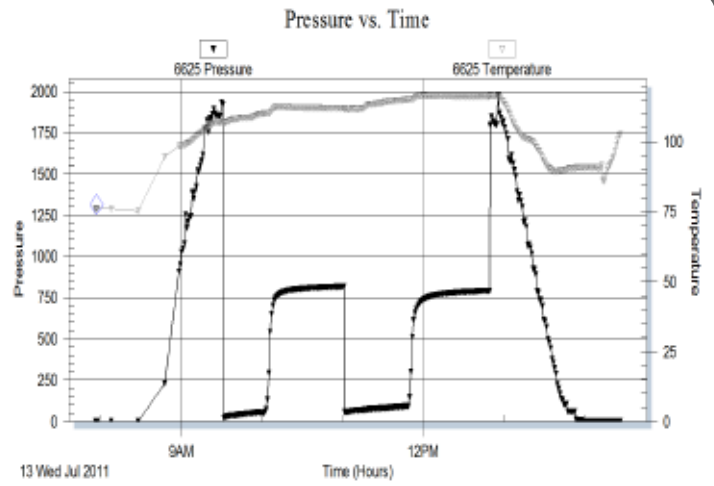


**DST #4: 3,802' - 3,854' (Marmaton Chert)**  
 30" - 60" - 45" - 60"

**IF: Weak blow, building to 4-1/2 inches**  
**ISI: No blow back**  
**FF: Weak blow, building to BOB in 45 minutes**  
**FSI: No blow back**

**RECOVERY: 310' GIP & 186' Total Fluid, consisting of:**  
 62' CO (100% Oil); Gravity: 41 API  
 62' MCGO (10% Gas, 50% Oil, 40% Mud)  
 62' HO&GCM (10% Gas, 30% Oil, 60% Mud)

**SIP: 816-791; FP: 23-54, 61-93; HP: 1848-1796; BHT: 116**

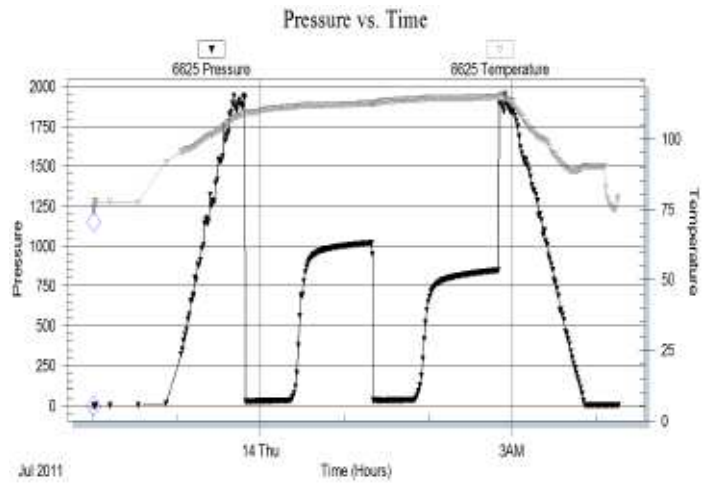


**DST #5: 3,862' - 3,880' (Arbuckle)**  
 30" - 60" - 30" - 60"


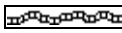
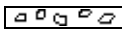
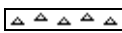
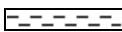



**IF: Weak blow, building to 1-1/4 inches**  
**ISI: No blow back**  
**FF: Weak surface blow throughout**  
**FSI: No blow back**





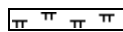

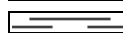
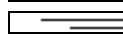
**RECOVERY: 40' Total Fluid, consisting of:**  
 1' CO (100% Oil)  
 39' HOCM (40% Oil, 60% Mud)

**SIP: 1017-845; FP: 24-30, 32-35; HP: 1877-1875; BHT: 114**









### ROCK TYPES

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

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

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

-  Sandylms
-  Shale
-  Slststn
-  Shlyslts
-  Sltysh
-  Lms



### ACCESSORIES

#### MINERAL

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

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

#### FOSSIL

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

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

#### STRINGER

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

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

#### TEXTURE

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

### OTHER SYMBOLS

#### POROSITY TYPE

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

#### SORTING

- Well
- Moderate
- Poor

#### ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

#### OIL SHOWS

- Even
- Spotted
- Ques
- Dead
- Gas show

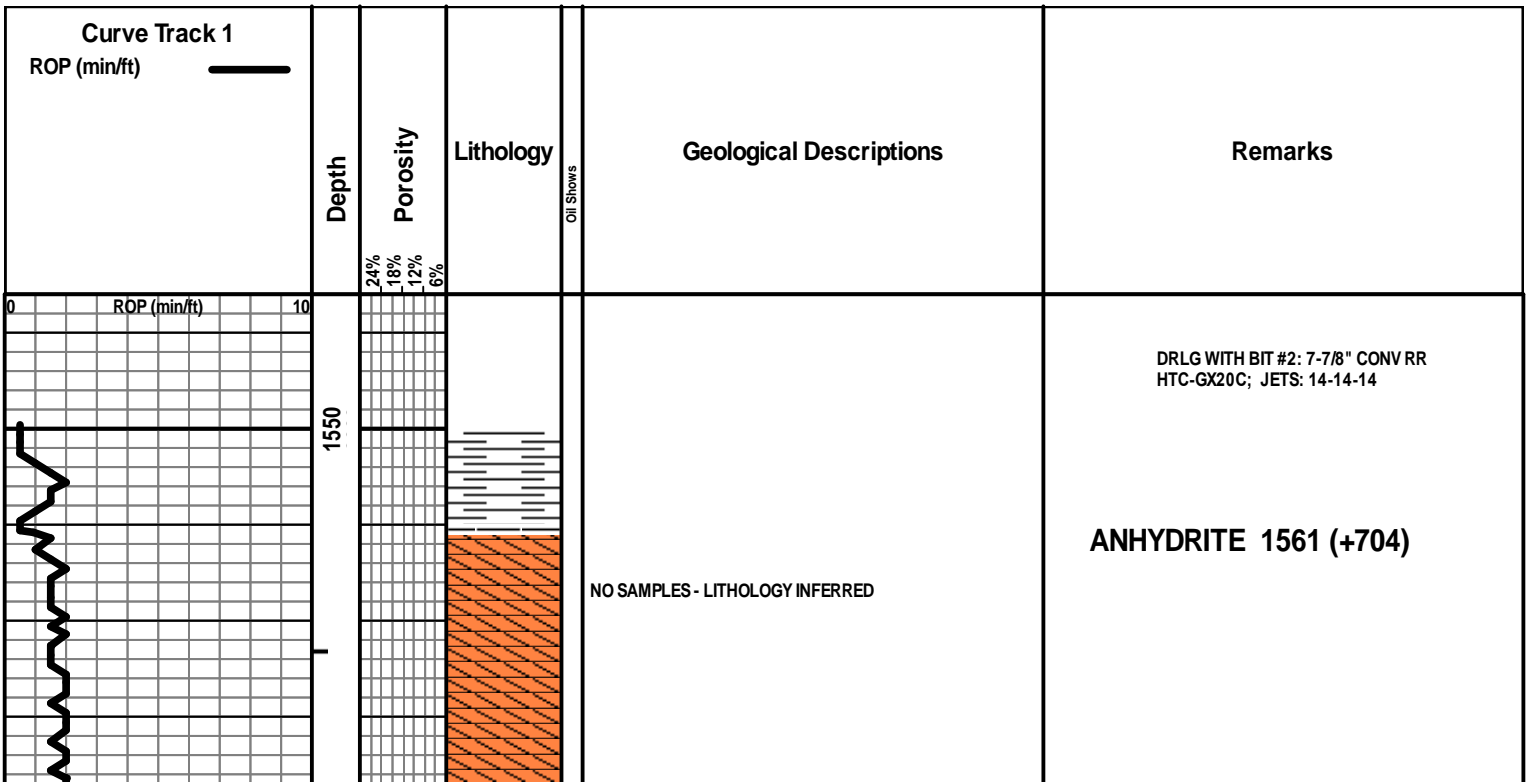
#### INTERVALS

- Core
- Dst

- Dst

#### EVENTS

- Rft
- Sidewall
- Conn



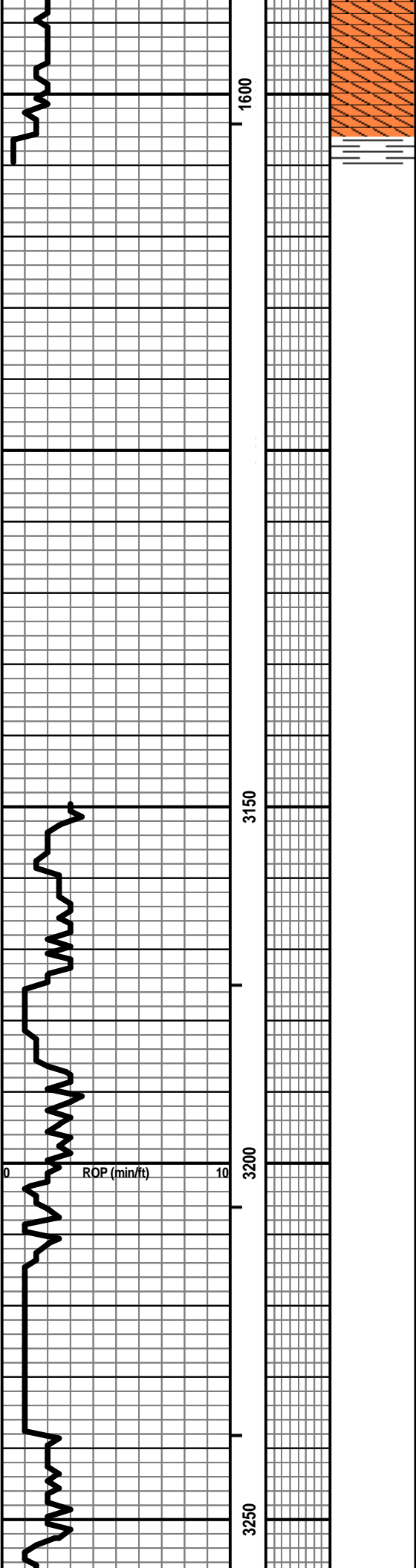
NO SAMPLES - LITHOLOGY INFERRED

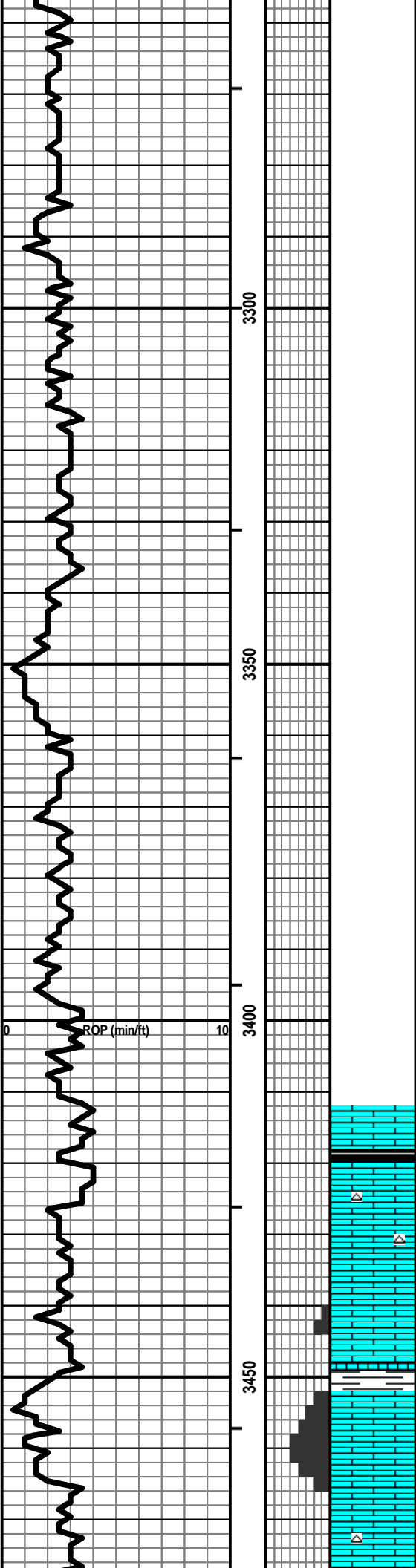
BASE OF ANHY 1606 (+659)

DISPLACE MUD AT 2,978'

Vis: 56, Wt: 8.8,  
YP: 25, Gels: 14/22,  
pH: 10.5, WL: 8.8,  
Chl: 5000, Sol: 3.3,  
LCM: 2#

TOPEKA 3238 (-973)





3300

3350

3400

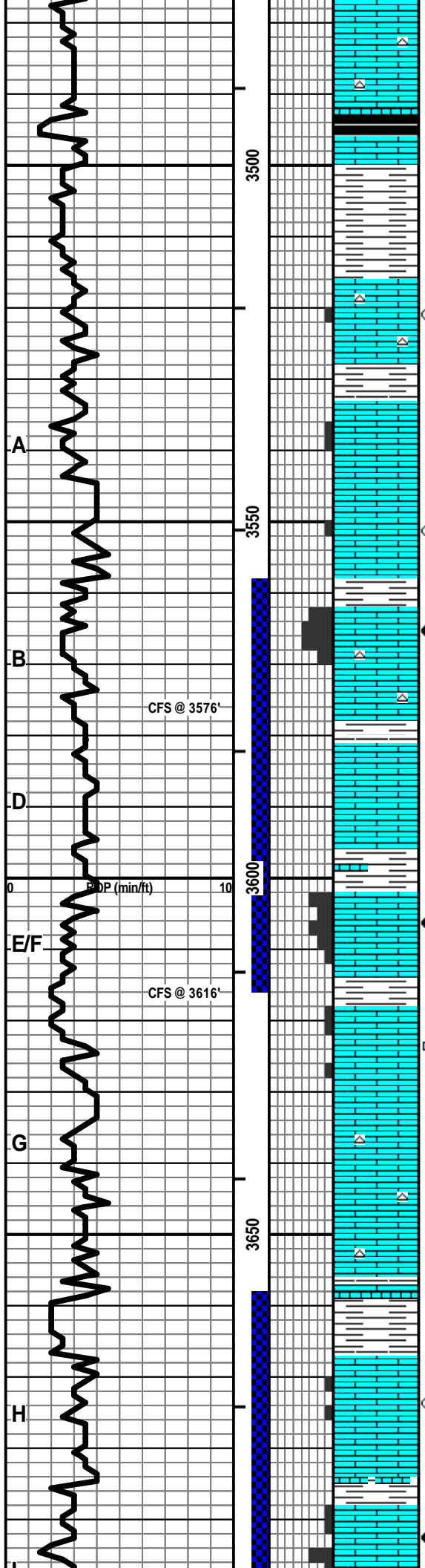
3450

ROP (min/ft)

LS - LT GY / CRM / TAN, MOT IN PT, VF / F XLN, FOSS IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT SH - BLK, CARB W/ SCAT CHT - LT GY

LS - CRM / SCAT TAN, VF / F XLN, FOSS, P / SCAT F INTXLN POR, NSFO, NO ODOR, SCAT SPTY STN

LS - CRM / TAN, F XLN, SCAT M / C REXLN CALC, FOSS IN PT, F / SCAT G INTXLN + PPT POR, SCAT VUG POR, SCAT OILY FILM, NSFO, FT ODOR, SCAT SPTY STN



LS - TAN / BRN / SCAT CRM, VF / F XLN, SCAT FOSS, CHKY IN PT, PRED DNS, NS W/CHT - LT / MED GY, FOSS IN PT

**HEEBNER 3493 (-1228)**

Vis: 56, Wt: 8.8

SH - BLK, CARB W/LS - TAN / SCAT BRN, F XLN, FOSS IN PT, PRED DNS, NS W/SH - GY / GRN

**TORONTO 3516 (-1251)**

LS - CRM / WHT, VF / F XLN, SL FOSS, SCAT P / NO INTXLN POR, SCAT CHKY, PRED DNS, NSFO, V FT ODOR, SCAT SPTY STN W/ SCAT CHT - WHT / LT GY

**LANSING 3533 (-1268)**

LS - CRM / SCAT TAN, F XLN, SCAT M REXLN CALC, FOSS, OOL IN PT, VP / NO INTXLN POR, CHKY IN PT, PRED DNS, NS

LS - CRM / TAN / SCAT BRN, VF / F XLN, FOSS, OOL IN PT, TR P VUG + PPT POR, CHKY IN PT, PRED DNS, TR OILY FILM, NO ODOR

**DST #1: 3,558' - 3,616' (LKC B-F)  
30"-60"-30"-60"**

IF: Good blow - BOB in 10 min.  
ISI: No blow back  
FF: Good blow - BOB in 14 min.  
FSI: No blow back

RECOVERY: 500' Total Fluid:  
190' MW w/ SO (75% W, 25% M)  
310' Water (100% W)

Chlorides: 50,000 ppm  
SIP: 589-587      HP: 1697-1666  
FP: 32-165, 168-259      BHT: 115

Vis: 54, Wt: 9.1,  
YP: 26, Gels: 14/24,  
pH: 10.5, WL: 8.0,  
Chl: 6000, Sol: 5.3,  
LCM: 2#

LS - CRM / TAN, F XLN, TR M REXLN CALC, CHTY IN PT, F / P INTXLN POR IN PT, SCAT VUG + PPT POR, FSFO + GB, F ODOR, SPTY / SCAT SAT STN

**DST #1 @ 3,616'**

PIPE STRAP @ 3,616': LONG 0.07'

LS - LT GY / CRM, VF / SCAT F XLN, OOL IN PT, SL FOSS, CHKY IN PT, PRED DNS, NS

DRLG WITH BIT #3: 7-7/8" CONV RR  
HTC-GX20C; JETS: 14-14-14

LS - CRM, F / SCAT M XLN, OOL, FOSS IN PT, F / PINTXLN + INTOOL POR IN PT, SL / F SFO, SSGB, F ODOR, SPTY / SCAT SAT STN

LS - CRM / WHT, VF / F XLN, OOL IN PT, P / SCAT F OOM POR IN PT, SCAT PLEACHED POR, NSFO, NO ODOR, SCAT SPTY DK BRN / BLK STN

LS - CRM / TAN, VF / F / CRYPTO XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS W/CHT - WHT / LT GY / CRM

**DST #2: 3,658' - 3,702' (LKC H-I)  
30"-60"-45"-60"**

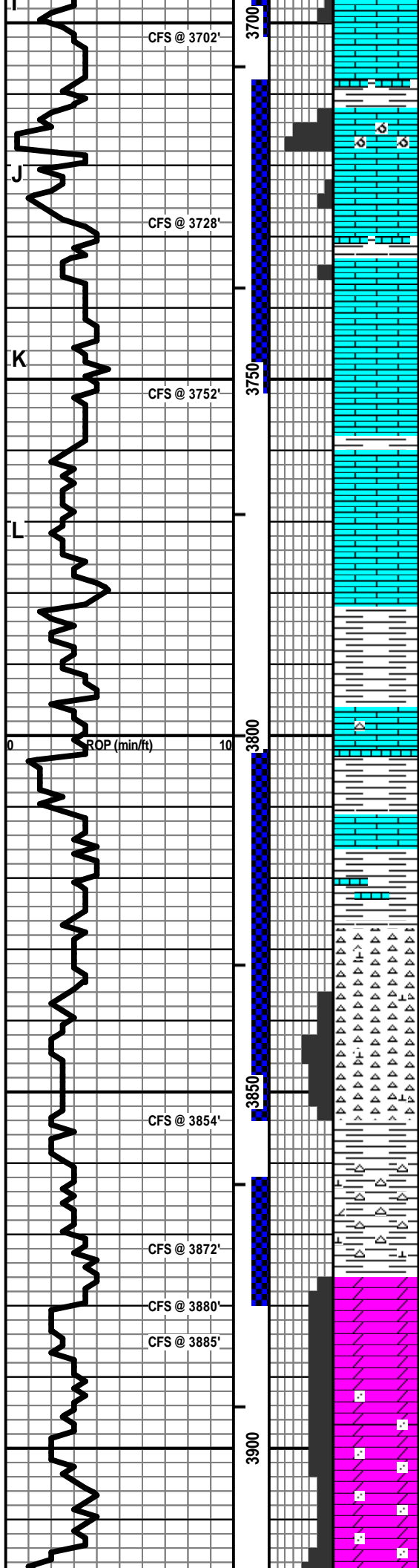
IF: Weak blow - building to 5.5 in.  
ISI: No blow back  
FF: Good blow - BOB in 9 min.  
FSI: No blow back

RECOVERY: 325' GIP & 45' Total Fluid:  
45' HO&GCM (20% G, 30% O, 25% M)

SIP: 398-318      HP: 1798-1742  
FP: 25-38, 27-39      BHT: 113

Vis: 54, Wt: 9.1,  
YP: 28, Gels: 12/22,  
pH: 9.5, WL: 8.8,  
Chl: 10000, Sol: 5.3,

LS - CRM / WHT, F XLN, SCAT FOSS, OOL IN PT, SCAT P / F VUG + INTXLN POR, SCAT F OOM POR, SL / G SFO, SSGB, F ODOR, SPTY / SAT STN IN PT



CFS @ 3702'

CFS @ 3728'

CFS @ 3752'

CFS @ 3854'

CFS @ 3872'

CFS @ 3880'

CFS @ 3885'

3700  
3750  
3800  
3850  
3900

ROP (min/ft)

J

K

F

0

10

LS - LT GY/CRM, F XLN, OOL, F/G OOM POR, P/G INTXLN POR, F/G SFO + GB, F ODOR, SPTY/SAT LT/DK BRN STN, SCAT BARR POR, SL S GILS

LS - CRM, VF/F XLN, OOL IN PT, SCAT P/TR F INTOOL + INTXLN POR, CHKY IN PT, PRED DNS, SL/SCAT F SFO + OILY FILM, FT ODOR, SCAT SPTYSTN

LS - CRM/TAN, VF/F XLN, SCAT CRYPTO XLN, SCAT FOSS, TR OOL, TR P INTXLN POR, SCAT CHKY, PRED DNS, NS

SH - GY/GRN/BRN/RED W/LS - CRM/GY, VF/F XLN, SCAT M REXLN CALC, SL FOSS + OOL, CHTY IN PT, PRED DNS, NS

LS - GY/CRM, F/CRYPTO XLN, OOL, ARGIL IN PT, PRED DNS, NS W/SH - GY/GRN/BRN

CHT - GY/CRM/WHT/TAN/YEL, CALC IN PT, VIT/SL WEATH IN PT, SL SFO + OILY FILM, FT ODOR, SCAT SPTY STN

CHT - GY/CRM/WHT/TAN/YEL, CALC IN PT, SL/ MOD WEATH, TRIP IN PT, SL/F SFO + OILYFILM, SSGB, F ODOR, SPTY/SCAT SAT STN

PRED SH - RED/BRN/GY/GRN, AREN/SLTY IN PT W/CHT - VARICOL, PRED VIT, TR WEATH W/SCAT DOLO + LS FRAG, NSFO, NO ODOR, SCAT SPTY DK BRN/BLK STN

3,880' CFS: DOLO - CRM/TAN, F/M XLN, SUCR IN PT, RHOMBIC, P/F INTXLN + VUG POR, SL/F SFO + GB, F ODOR, SPTY BRN STN IN PT

3,885' CFS: DOLO - CRM/TAN/SCAT LT GY, F/M XLN, SUCR IN PT, RHOMBIC, TR GLAUC, P/F INTXLN + VUG POR, SL/F SFO IN PT, SCAT PSO/BARR, F ODOR, SPTY STN IN PT

DOLO - CRM/TAN/SCAT LT GY, F/M XLN, SUCR IN PT, RHOMBIC, GLAUC IN PT, SL/ MOD AREN, P/G INTXLN + VUG POR, SSFO, FS OILY FILM, SCAT GILS, MODAMT BARR POR, F ODOR, SCAT SPTY STN

DOLO - CRM/TAN/SCAT LT GY, F/M XLN, SUCR IN PT,

DST #2 @ 3,702'

DST #3: 3,708' - 3,752' (LKC J-K)  
30"-60"-45"-60"

IF: Weak blow - building to 5 in.  
ISI: No blow back  
FF: Weak blow - building to 5.5 in.  
FSI: No blow back  
RECOVERY: 225' GIP & 75' Total Fluid:  
5' CO (100% O); Gravity: 31 API  
10' OGCWM (10%G, 15%O, 15%W, 60%M)  
60' OCMW (5% O, 70% W, 25% M)  
Chlorides Rec: 46,000 ppm  
SIP: 399-393 HP: 1786-1767  
FP: 25-43, 44-63 BHT: 112

DST #3 @ 3,752'

Vis: 53, Wt: 9.0

### BASE OF KC 3782 (-1517)

DST #4: 3,802' - 3,854' (Marm Chert)  
30"-60"-45"-60"

IF: Weak blow - building to 4.5 in.  
ISI: No blow back  
FF: Weak blow - bldg to BOB in 45 min.  
FSI: No blow back  
RECOVERY: 310' GIP & 186' Total Fluid:  
62' CO (100% O); Gravity: 41 API  
62' MCGO (10% G, 50% O, 40% M)  
62' HO&GCM (10% G, 30% O, 60% M)  
SIP: 816-791 HP: 1848-1796  
FP: 23-54, 61-93 BHT: 116

### MARMATON CHERT 3827 (-1562)

Vis: 49, Wt: 9.2,  
YP: 26, Gels: 14/20,  
pH: 9.0, WL: 9.6,  
Chl: 7000, Sol: 6.0,  
LCM: 1.5#

DST #4 @ 3,854'

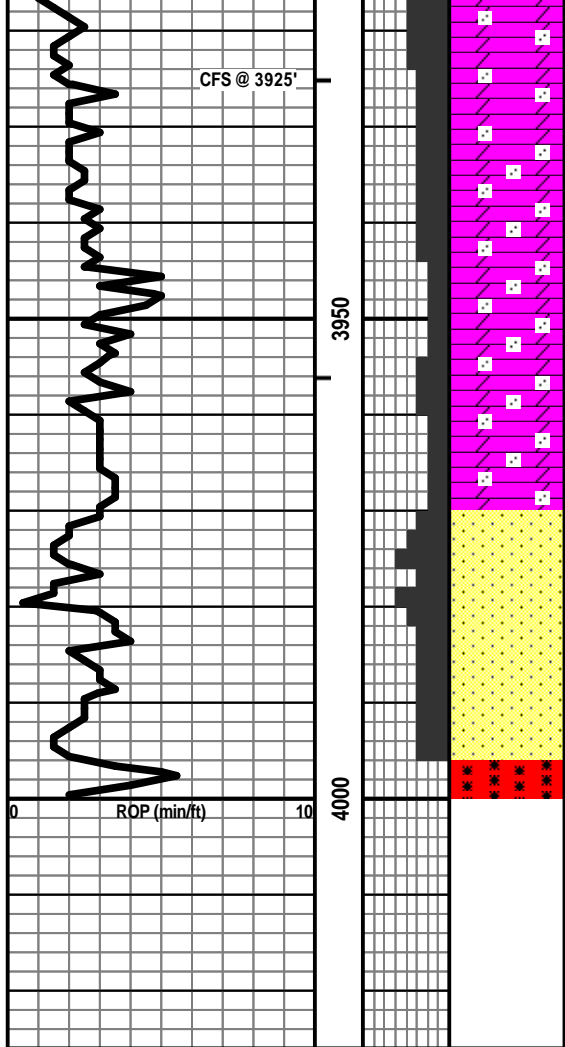
### ARBUCKLE 3876 (-1611)

DST #5 @ 3,880'

DST #5: 3,862' - 3,880' (Arbuckle)  
30"-60"-30"-60"

IF: Weak blow - building to 1.25 in.  
ISI: No blow back  
FF: Surface blow throughout  
FSI: No blow back  
RECOVERY: 40' Total Fluid:  
1' CO (100% O)  
39' HOCM (40% O, 60% M)  
SIP: 1017-845 HP: 1877-1875

Vis: 51, Wt: 9.2,  
YP: 28, Gels: 14/26,  
pH: 9.5, WL: 8.8,  
Chi: 8000, Sol: 6.0,  
LCM: 2.5#



RHOMBIC, GLAUC IN PT, MOD AREN, P/G VUG + INTXLN  
POR, FS GILS + OILY FILM, ABNT BARR POR, V FT ODOR,  
MOD BLK GILS STN

DOLO - CRM / TAN / SCAT LT GY / SCAT PINK, F / M XLN,  
SUCR IN PT, RHOMBIC, MOD AREN, P / G VUG + INTXLN  
POR, SCAT GILS, ABNT BARR POR, V FT ODOR, SCAT GILS  
STN W / MOD AMT UNCONS QTZ GR, F / C

DOLO - CRM / TAN / SCAT LT GY / SCAT PINK, F / M XLN,  
SUCR IN PT, RHOMBIC, MOD AREN, P / G VUG + INTXLN  
POR, PRED NS W / MOD AMT UNCONS QTZ GR, F / C

SS - CLSTRS, LT GY / TRANS, F / C QTZ GR, FW SRTD, SA / R,  
DOLO IN PT, F / G INTGR POR, NS W / ABNT UNCONS QTZ  
GR, F / VC / PEBB, SA / R, PRED TRANS, SCAT OPQ

PRED UNCONS QTZ GR, ASABOVE

GRANITE WASH / WEATH GRANITE - ANG QTZ, WEATH  
FELD, SCAT / MOD MICA

**TOTAL DEPTH 4000 (-1735)**

**REAGAN SAND 3972 (-1707)**

Vis: 52, Wt: 9.2

**GRANITE WASH 3996 (-1731)**