



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1224604
OIL & GAS CONSERVATION DIVISION

Form ACO-1
August 2013

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

- Deepening Re-perf. Conv. to ENHR Conv. to SWD
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

| | | |
|-----------------------------------|-----------------|---|
| Spud Date or Recompletion Date | Date Reached TD | Completion Date or Recompletion Date |
|-----------------------------------|-----------------|---|

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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

1224604

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|---|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate | | | | |
| <input type="checkbox"/> Protect Casing | | | | |
| <input type="checkbox"/> Plug Back TD | | | | |
| <input type="checkbox"/> Plug Off Zone | | | | |

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

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

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

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

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

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

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

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

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Trek AEC, LLC |
| Well Name | States 1-33 |
| Doc ID | 1224604 |

All Electric Logs Run

| |
|-------------------------------|
| |
| Compensated Density/Neutron |
| Dual Induction |
| Micro |
| Dual Receiver Cement Bond Log |

| | |
|-----------|------------------------|
| Form | ACO1 - Well Completion |
| Operator | Trek AEC, LLC |
| Well Name | States 1-33 |
| Doc ID | 1224604 |

Tops

| Name | Top | Datum |
|------------------|------|-------|
| Anhydrite | 1820 | -410 |
| Base Anhydrite | 1855 | +375 |
| Oread | 3374 | -1144 |
| Heebner | 3422 | -1192 |
| Toronto | 3446 | -1216 |
| Lansing | 3460 | -1230 |
| Muncie Creek | 3576 | -1346 |
| Stark | 3636 | -1406 |
| Base/Kansas City | 3658 | -1428 |
| Arbuckle | 3699 | -1469 |



QUALITY OILWELL CEMENTING, INC.

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

Date: 7/8/2014
 Invoice # 554

P.O.#:

Due Date: 8/7/2014
 Division: Russell

Invoice

Contact:
 TREK AEC, LLC
Address/Job Location:
 TREK AEC, LLC
 4925 GREENVILLE AVE
 SUITE 915
 DALLAS TX 75206

Reference:
 STATES 1-33

Description of Work:
 SURFACE JOB

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|--|----------|-------------|---------|------|----------|-------|---------|
| Labor | | \$ 1,020.55 | No | | | | |
| Common-Class A | 150 | \$ 2,514.71 | Yes | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 57 | \$ 835.78 | No | | | | |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 57 | \$ 372.04 | No | | | | |
| Bulk Truck Matl-Material Service Charge | 158 | \$ 363.18 | No | | | | |
| Calcium Chloride | 5 | \$ 311.04 | Yes | | | | |
| Premium Gel (Bentonite) | 3 | \$ 54.59 | Yes | | | | |

Invoice Terms:

Net 30

SubTotal: \$ 5,261.88
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (789.28)

SubTotal for Taxable Items: \$ 2,448.28
 SubTotal for Non-Taxable Items: \$ 2,024.32

Total: \$ 4,472.60
 Tax: \$ 150.57

6.15% Rooks County Sales Tax

Thank You For Your Business!

Amount Due: \$ 4,623.17
Applied Payments:
Balance Due: \$ 4,623.17

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



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

Date: 7/15/2014
 Invoice # 561

P.O.#:
 Due Date: 8/14/2014
 Division: *Russell*

Invoice

Contact:
 TREK AEC, LLC
Address/Job Location:
 TREK AEC, LLC
 4925 GREENVILLE AVE
 SUITE 915
 DALLAS TX 75206

Reference:
 STATES 1-33

Description of Work:
 PROD STRING BOTTOM STAGE

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|--|----------|-------------|---------|----------------------------------|----------|----------|---------|
| Labor | | \$ 1,312.55 | No | Latch Down Plug & Saffle, 5 1/2" | 1 | \$250.35 | Yes |
| Two Stage Cement Collar, 5 1/2" | 1 | \$ 4,001.18 | Yes | Salt (Fine) | 13 | \$202.83 | Yes |
| Pro-C Cement | 125 | \$ 2,375.00 | Yes | Flt Seal | 31 | \$69.29 | Yes |
| Gilsonite | 625 | \$ 1,047.79 | Yes | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 57 | \$ 835.78 | No | | | | |
| 5 1/2" Turbolizer | 7 | \$ 453.76 | Yes | | | | |
| Mud Clear | 500 | \$ 413.53 | Yes | | | | |
| 5 1/2" Basket | 1 | \$ 384.47 | Yes | | | | |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 57 | \$ 372.04 | No | | | | |
| Auto Fill Float Shoe, 5 1/2" | 1 | \$ 342.00 | Yes | | | | |
| Bulk Truck Matl-Material Service Charge | 144 | \$ 321.88 | No | | | | |

Invoice Terms:

Net 30

SubTotal: \$ 12,182.58
 Discount Available ONLY if Invoice is Paid & Received
 within listed terms of invoice: \$ (1,827.39)

SubTotal for Taxable Items: \$ 8,109.18
 SubTotal for Non-Taxable Items: \$ 2,246.01

5.15% Rooks County Sales Tax

Total: \$ 10,355.19
 Tax: \$ 498.71
Amount Due: \$ 10,853.90
Applied Payments:
Balance Due: \$ 10,853.90

Thank You For Your Business!

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



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

Date: 7/15/2014
 Invoice # 562
 P.O.#:
 Due Date: 8/14/2014
 Division: Russell

Invoice

Contact:
 TREK AEC, LLC
Address/Job Location:
 TREK AEC, LLC
 4925 GREENVILLE AVE
 SUITE 915
 DALLAS TX 75206

Reference:
 STATES 1-33

Description of Work:
 PROD STRING TOP STAGE

| Services / Items Included: | Quantity | Price | Taxable | Item | Quantity | Price | Taxable |
|---|----------|-------------|---------|------|----------|-------|---------|
| Labor | | \$ 1,020.55 | No | | | | |
| mon, MetsoBeads, Papter, Gel, FloSeal, Calcium) | 375 | \$ 8,013.53 | Yes | | | | |
| Bulk Truck Multi-Material Service Charge | 375 | \$ 838.24 | No | | | | |
| Pump Truck Mileage-Job to Nearest Camp | 57 | \$ 635.78 | No | | | | |
| Bulk Truck Mileage-Job to Nearest Bulk Plant | 57 | \$ 372.04 | No | | | | |
| Flo Seal | 93 | \$ 207.88 | Yes | | | | |

Invoice Terms:
 Net 30

| | | |
|-------|---|---------------|
| | SubTotal: | \$ 11,088.02 |
| | Discount Available <u>ONLY</u> if Invoice is Paid & Received within listed terms of invoice: | \$ (1,663.20) |
| <hr/> | | |
| | SubTotal for Taxable Items: | \$ 6,988.20 |
| | SubTotal for Non-Taxable Items: | \$ 2,436.62 |
| <hr/> | | |
| | Total: | \$ 9,424.82 |
| | Tax: | \$ 429.77 |
| <hr/> | | |
| | Amount Due: | \$ 9,854.59 |
| | Applied Payments: | |
| | Balance Due: | \$ 9,854.59 |

6.15% Rooks County Sales Tax

Thank You For Your Business!

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

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 554

| | | | | | | | |
|----------|------|------|-------|--------|--------|-------------|---------|
| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
| 7-8-2014 | 33 | 6 | 20 | ROCKS | KANSAS | | 7:30 PM |

Lease STATES Location OLD 24 Hwy & Logan RD.

Well No. 1-33 Owner SN 15 1/2 S 1/2 W INTD

Contractor W-W DRUG RIG #6
Type Job SURFACE
To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish
cement and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4 T.D. 259 Charge To TREK AFC LLC

Csg. 8518 Depth 259 Street

Tbg. Size Depth City State

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

Cement Left in Csg. 15' Shoe Joint Cement Amount Ordered 150 SX Com 2 + 3% cc

Meas Line Displace 15 1/2 bbl Common 150

| EQUIPMENT | | | Common |
|-------------------|-----|---|-------------------|
| Pumptrk <u>18</u> | No. | Cementer Helper <u>Alfred G. Perry B.</u> | Poz. Mix <u>3</u> |
| Bulktrk <u>9</u> | No. | Driver <u>Doug H.</u> | Gel. <u>3</u> |
| Bulktrk | No. | Driver | Calcium |

JOB SERVICES & REMARKS

| | |
|--------------------|-------------------------|
| Remarks: | Hulls |
| Rat Hole | Salt |
| Mouse Hole | Flowseal |
| Centralizers | Kol-Seal |
| Baskets | Mud CLR 48 |
| D/V or Port Collar | CFL-117 or CD110 CAF 38 |
| | Sand |
| | Handling <u>50</u> |
| | Mileage |

FLOAT EQUIPMENT

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

Pumptrk Charge SURFACE

Mileage 57

| |
|--------------|
| Tax |
| Discount |
| Total Charge |

X Signature Mark Basse

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 561

| | | | | | | | | | | | | | | | |
|------|-----------|------|----|------|---|-------|----|--------|-------|-------|--------|-------------|--|--------|---------|
| Date | 7-15-2014 | Sec. | 33 | Twp. | 6 | Range | 20 | County | ROCKS | State | KANSAS | On Location | | Finish | 8:30 PM |
|------|-----------|------|----|------|---|-------|----|--------|-------|-------|--------|-------------|--|--------|---------|

Location OLD 24 Hwy + Logan RD. SW 1E 2S 4W

Lease STATES Well No. 1-33 Owner

Contractor W-W DRILL RIG #6 To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job PRODUCTION STRING (DV) 2-Stage Charge To TREK-AFC

Hole Size 7 7/8 Depth 3770' Street

Csg. 5 1/2 15.50# Depth 376.9 City State

Tbg. Size (NEW) Depth City State

Tool LATCH DOWN PLUG Depth 3727 The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. 42.60 Shoe Joint 42.60 Cement Amount Ordered 125 SX Q PRO C

Meas Line Displace 88 3/4 BBL Common 5% GILSONITE 10% SALT

EQUIPMENT Poz. Mix 125 Q PRO C

Pumptrk 18 No. Cementer Helper GLENN G. CODY B. Gel.

Bulktrk 21 No. Driver DAVE H. LOWDIE M. Calcium

Bulktrk 14 No. Driver Hulls

JOB SERVICES & REMARKS

Remarks: Salt 13

Rat Hole 30 SX Flowseal 31#

Mouse Hole Kol-Seal 625#

Centralizers 1, 3, 5, 7, 17, 18, 47 Mud CLR 48 500 GAL

Baskets 46 - Tube Top of #45 @ 1866 CFL-117 or CD110 CAF 38

DV or Port Collar DV TOOL @ 182.4 JT # 46 Sand

Handling 144 Mileage

Ran 90 joints of New 15.50# Set @ 3769' Circulation FLOAT EQUIPMENT

Drop "AFU BALL" CIRCULATE Guide Shoe

3/4 HR. on Bottom. Centralizer X 7 TURBO

Pump Mud Clear, & Cement Baskets X 1

w/ 125 SX Q PRO C, & 5% GILSONITE AFU Inserts

10% SALT, CLEAR-LINE. Float Shoe X 1

Release Bottom slim hole Latch Down X 1

LATCH DOWN PLUG, & Displaced DV. TOOL X 1

LAND PLUG @ 1500' Pumptrk Charge prod string

Release Pressure & "AFU + Mileage 57

Plug" - HELD.

THANK'S

Bottom Stage

Signature Thad Stur

| | |
|--------------|--|
| Tax | |
| Discount | |
| Total Charge | |

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 562

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

| | | | | | | | | | | | | | | | |
|-----------------------------------|-----------|------|----|------|---|-------|----|--------------|--------|--|--------|-------------|--|--------|----------|
| Date | 7-15-2014 | Sec. | 33 | Twp. | 6 | Range | 20 | County | ROOK'S | State | KANSAS | On Location | | Finish | 10:00 PM |
| Lease | | | | | | | | Well No. | | Owner | | | | | |
| STATES | | | | | | | | 1-33 | | To Quality Oilwell Cementing, Inc. | | | | | |
| Contractor | | | | | | | | Rig # | | You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed. | | | | | |
| W-W DALG | | | | | | | | #6 | | "Mork" | | | | | |
| Type Job | | | | | | | | T.D. | | Charge To | | | | | |
| PRODUCTION STABING | | | | | | | | (DV) 2-Stage | | TREK-AEC | | | | | |
| Hole Size | | | | | | | | Depth | | Street | | | | | |
| 7 7/8 | | | | | | | | | | | | | | | |
| Csg. | | | | | | | | Depth | | City | | | | | |
| 5 1/2 New 15.50# | | | | | | | | 1824 | | State | | | | | |
| Tbg. Size | | | | | | | | Shoe Joint | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | |
| Tool | | | | | | | | Displace | | Cement Amount Ordered | | | | | |
| DV-TOOL@ | | | | | | | | BBL | | 375 sx Qm DC, w/ | | | | | |
| Cement Left in Csg. | | | | | | | | | | VA #F10-Seal Per SX | | | | | |
| Meas Line | | | | | | | | EQUIPMENT | | Common | | | | | |
| | | | | | | | | | | 375 | | | | | |
| Pumptrk | | | | | | | | No. | | Cementer | | | | | |
| 18 | | | | | | | | | | GLANN G. | | | | | |
| Bulktrk | | | | | | | | No. | | Helper | | | | | |
| 21 | | | | | | | | | | Cody B. | | | | | |
| Bulktrk | | | | | | | | No. | | Driver | | | | | |
| 14 | | | | | | | | | | Dond H. | | | | | |
| | | | | | | | | | | Laurie M. | | | | | |
| JOB SERVICES & REMARKS | | | | | | | | | | Hulls | | | | | |
| Remarks: | | | | | | | | | | Salt | | | | | |
| Rat Hole | | | | | | | | | | Flowseal | | | | | |
| 30 SX | | | | | | | | | | 93# | | | | | |
| Mouse Hole | | | | | | | | | | Kol-Seal | | | | | |
| Centralizers | | | | | | | | | | Mud CLR 48 | | | | | |
| Baskets | | | | | | | | | | CFL-117 or CD110 CAF 38 | | | | | |
| DV or Port Collar @ 1824' | | | | | | | | | | Sand | | | | | |
| DROP DART ON DV @ 1000# CR 1/2 HR | | | | | | | | | | Handling | | | | | |
| DV TOOL @ 1824' | | | | | | | | | | 375 | | | | | |
| Qm DC 4#F10-Seal, Release | | | | | | | | | | Mileage | | | | | |
| TOP, WIPEP-PLUG, & Displaced | | | | | | | | | | FLOAT EQUIPMENT | | | | | |
| TO DV TOOL, LAND @ 1500# | | | | | | | | | | Guide Shoe | | | | | |
| TO CLOSE DV TOOL | | | | | | | | | | Centralizer | | | | | |
| Release Pressure & DRYJOB-UP | | | | | | | | | | Baskets | | | | | |
| Cement DID CIRCULATE TO SURFACE. | | | | | | | | | | AFU Inserts | | | | | |
| THANKS! | | | | | | | | | | Float Shoe | | | | | |
| | | | | | | | | | | Latch Down | | | | | |
| TOP STAGE | | | | | | | | | | Pumptrk Charge | | | | | |
| Signature | | | | | | | | | | 57 | | | | | |
| | | | | | | | | | | Mileage | | | | | |
| | | | | | | | | | | Tax | | | | | |
| | | | | | | | | | | Discount | | | | | |
| | | | | | | | | | | Total Charge | | | | | |



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC

155 N. Market STE 170
Wichita KS, 67202

ATTN: Aaron Young

33-6s-20w Rooks KS

States 1-33

Job Ticket: 54068

DST#: 1

Test Start: 2014.07.11 @ 18:31:00

GENERAL INFORMATION:

Formation: **Tor - LKC "A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:54:00

Time Test Ended: 03:28:45

Test Type: Conventional Bottom Hole (Initial)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3405.00 ft (KB) To 3459.00 ft (KB) (TVD)**

Total Depth: 3459.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2230.00 ft (KB)

2225.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 77.48 psig @ 3442.00 ft (KB)

Start Date: 2014.07.11

End Date:

2014.07.12

Capacity: 8000.00 psig

Last Calib.: 2014.07.12

Start Time: 18:31:05

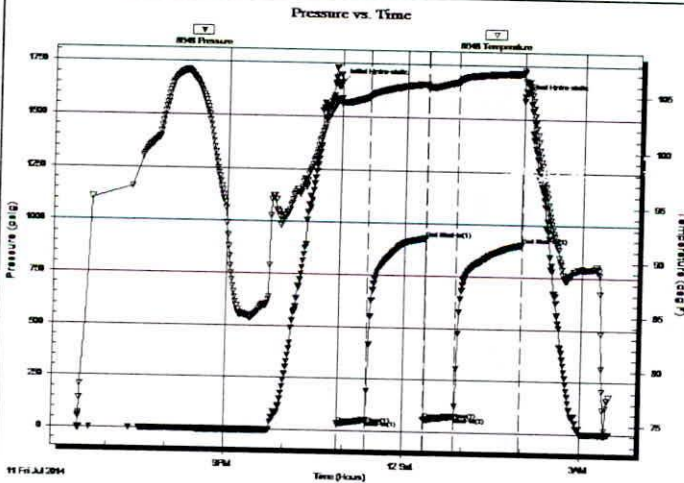
End Time:

03:28:45

Time On Btm: 2014.07.11 @ 22:53:45

Time Off Btm: 2014.07.12 @ 01:58:30

TEST COMMENT: 30 - IF- 1/2" blow
60 - IS- No return
30 - FF- Surface return
60 - FS- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1663.20 | 104.63 | Initial Hydro-static |
| 1 | 34.57 | 104.08 | Open To Flow (1) |
| 29 | 55.39 | 104.78 | Shut-In(1) |
| 87 | 929.00 | 106.02 | End Shut-In(1) |
| 88 | 60.37 | 105.59 | Open To Flow (2) |
| 119 | 77.48 | 106.25 | Shut-In(2) |
| 185 | 906.32 | 107.09 | End Shut-In(2) |
| 185 | 1605.53 | 107.38 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------|--------------|
| 75.00 | Mud - Oil spots, 100%M | 0.37 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC
155 N. Market STE 170
Wichita KS, 67202
ATTN: Aaron Young

33-6s-20w Rooks KS
States 1-33
Job Ticket: 54068 **DST#: 1**
Test Start: 2014.07.11 @ 18:31:00

Mud and Cushion Information

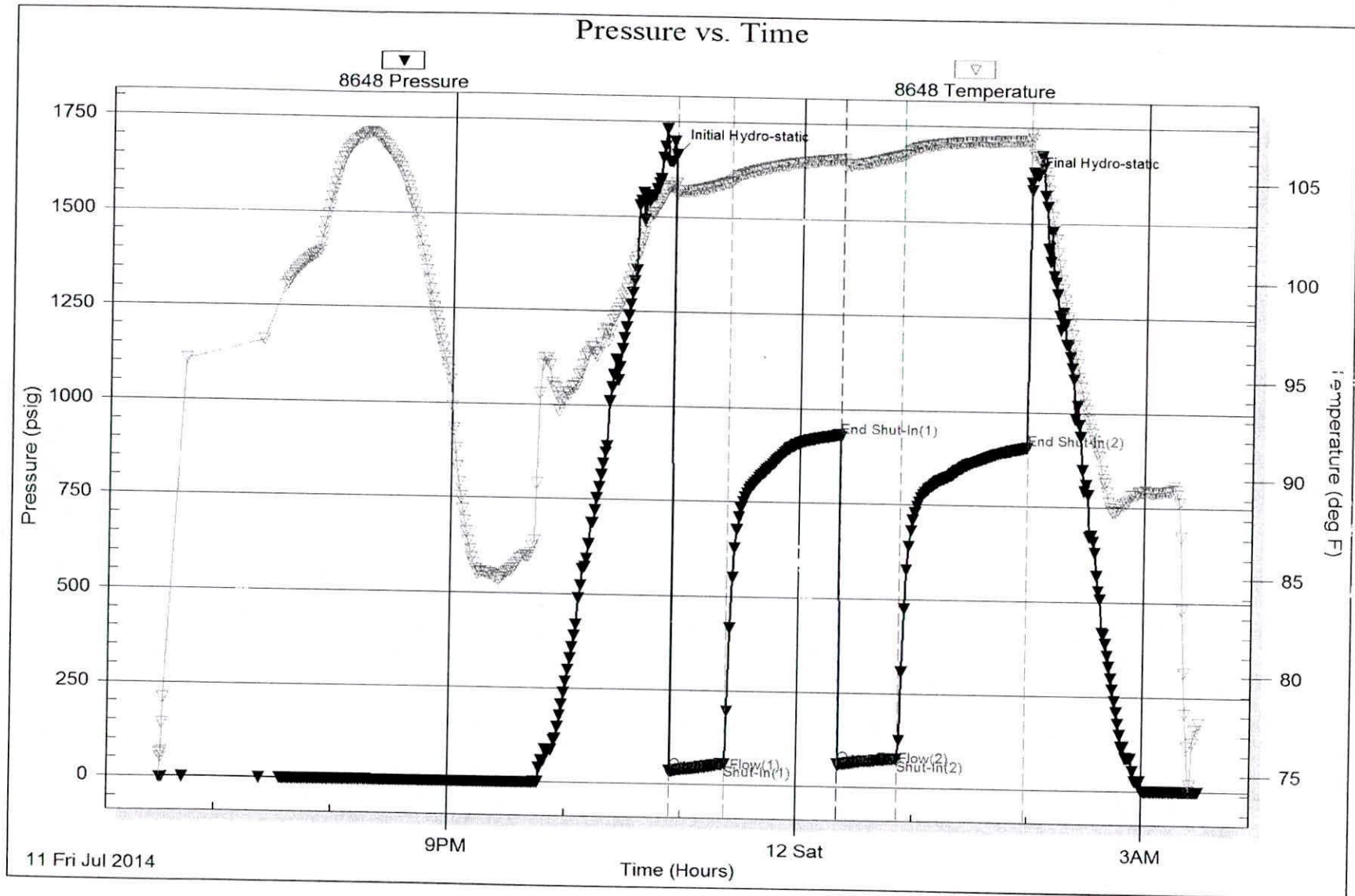
| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 6.00 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------------|---------------|
| 75.00 | Mud - Oil spots, 100%M | 0.369 |

Total Length: 75.00 ft Total Volume: 0.369 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC
 155 N. Market STE 170
 Wichita KS, 67202
 ATTN: Aaron Young

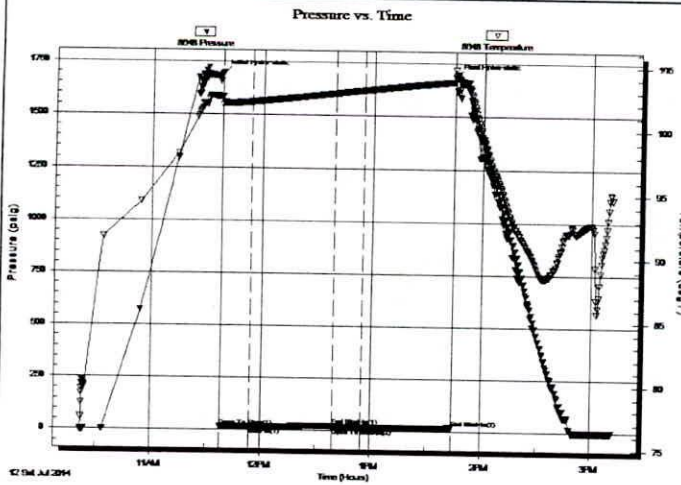
33-6s-20w Rooks KS
States 1-33
 Job Ticket: 54069 **DST#: 2**
 Test Start: 2014.07.12 @ 10:22:00

GENERAL INFORMATION:

Formation: **LKC "C"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:38:15
 Time Test Ended: 15:11:15
 Interval: **3472.00 ft (KB) To 3498.00 ft (KB) (TVD)**
 Total Depth: 3498.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 73
 Reference Elevations: 2230.00 ft (KB)
 2225.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8648 **Inside**
 Press@RunDepth: 16.73 psig @ 3476.00 ft (KB)
 Start Date: 2014.07.12 End Date: 2014.07.12
 Start Time: 10:22:05 End Time: 15:11:14
 Capacity: 8000.00 psig
 Last Calib.: 2014.07.12
 Time On Btm: 2014.07.12 @ 11:38:00
 Time Off Btm: 2014.07.12 @ 13:44:30

TEST COMMENT: 15 - IF- Surface blow, died in 9 minutes
 45 - IS- No return
 15 - FF- No blow
 45 - FS- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1692.12 | 102.50 | Initial Hydro-static |
| 1 | 16.29 | 101.87 | Open To Flow (1) |
| 16 | 16.55 | 102.13 | Shut-In(1) |
| 62 | 23.31 | 102.83 | End Shut-In(1) |
| 62 | 16.39 | 102.84 | Open To Flow (2) |
| 77 | 16.73 | 103.08 | Shut-In(2) |
| 127 | 21.13 | 103.81 | End Shut-In(2) |
| 127 | 1679.37 | 104.76 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 1.00 | Mud, 100%M | 0.00 |
| | | |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC

33-6s-20w Rooks KS

155 N. Market STE 170
Wichita KS, 67202

States 1-33

ATTN: Aaron Young

Job Ticket: 54069

DST#: 2

Test Start: 2014.07.12 @ 10:22:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 52.00 sec/qt

Water Loss: 6.80 in³

Resistivity: ohm.m

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psig

Oil API: deg API

Water Salinity: ppm

Recovery Information

Recovery Table

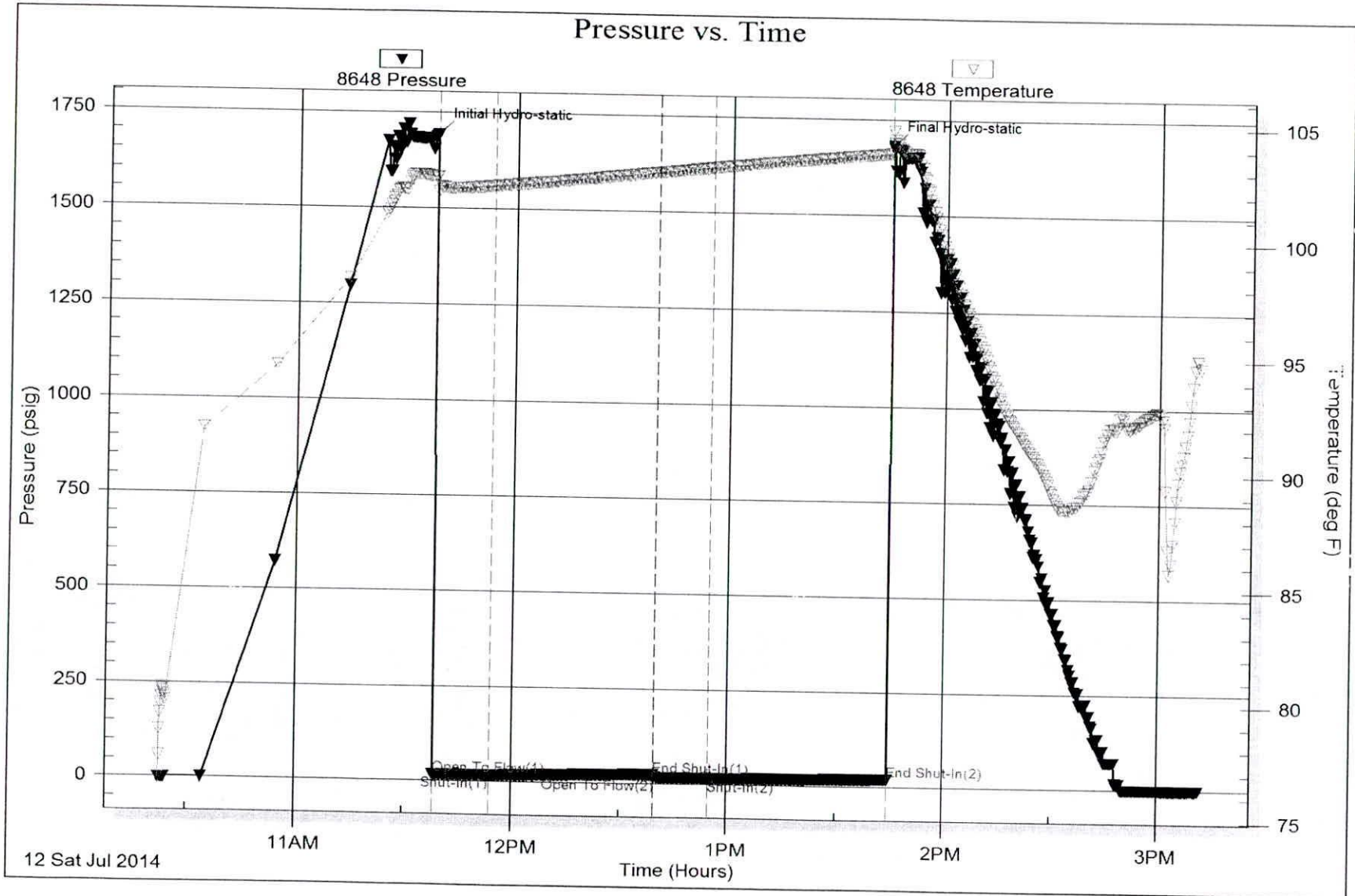
| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 1.00 | Mud, 100% M | 0.005 |

Total Length: 1.00 ft Total Volume: 0.005 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

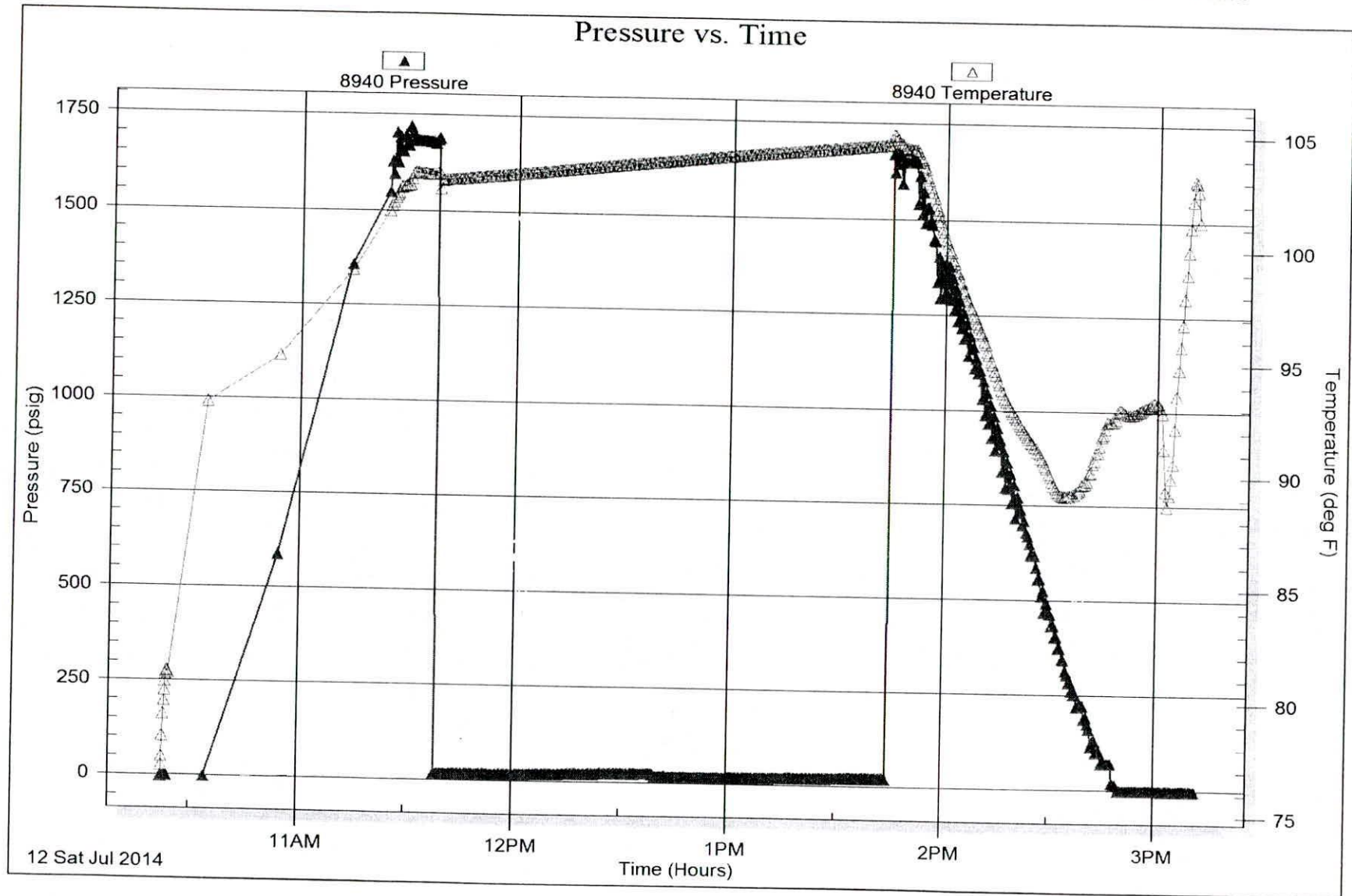


Serial #: 8940

Outside Trek AECLLC

States 1-33

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC

155 N. Market STE 170
Wichita KS, 67202

ATTN: Aaron Young

33-6s-20w Rooks KS

States 1-33

Job Ticket: 54070

DST#: 3

Test Start: 2014.07.12 @ 21:54:00

GENERAL INFORMATION:

Formation: **LKC "E,F,G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:52:00

Time Test Ended: 05:27:45

Interval: **3510.00 ft (KB) To 3551.00 ft (KB) (TVI)**

Total Depth: 3551.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Reference Elevations: 2230.00 ft (KB)

2225.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 198.49 psig @ 3547.00 ft (KB)

Start Date: 2014.07.12

End Date:

2014.07.13

Capacity: 8000.00 psig

Last Calib.: 2014.07.13

Start Time: 21:54:05

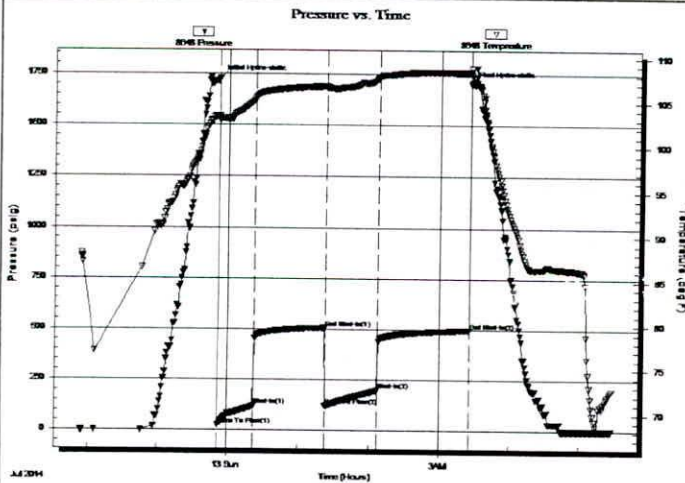
End Time:

05:27:44

Time On Btm: 2014.07.12 @ 23:51:45

Time Off Btm: 2014.07.13 @ 03:26:00

TEST COMMENT: 30 - IF- B.O.B. in 18 minutes
60 - IS- No return
45 - FF- 8 1/2" blow
75 - FS- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1725.42 | 103.46 | Initial Hydro-static |
| 1 | 23.48 | 102.97 | Open To Flow (1) |
| 30 | 119.23 | 105.26 | Shut-In(1) |
| 91 | 505.42 | 106.78 | End Shut-In(1) |
| 91 | 121.53 | 106.57 | Open To Flow (2) |
| 136 | 198.49 | 107.74 | Shut-In(2) |
| 214 | 493.96 | 108.32 | End Shut-In(2) |
| 215 | 1700.89 | 108.82 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------------|--------------|
| 62.00 | SOCWM, 5%W, 10%O, 85%M | 0.30 |
| 310.00 | VSOCMW, 5%O, 40%M, 55%W | 3.82 |
| 62.00 | WM, 30%W, 70%M | 0.87 |
| 1.00 | Free Oil, 100%O | 0.01 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC

33-6s-20w Rooks KS

155 N. Market STE 170
Wichita KS, 67202

States 1-33

Job Ticket: 54070

DST#: 3

ATTN: Aaron Young

Test Start: 2014.07.12 @ 21:54:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

85000 ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------------|---------------|
| 62.00 | SOCWM, 5%W, 10%O, 85%M | 0.305 |
| 310.00 | VSOCMW, 5%O, 40%M, 55%W | 3.820 |
| 62.00 | WM, 30%W, 70%M | 0.870 |
| 1.00 | Free Oil, 100%O | 0.014 |

Total Length: 435.00 ft Total Volume: 5.009 bbl

Num Fluid Samples: 0

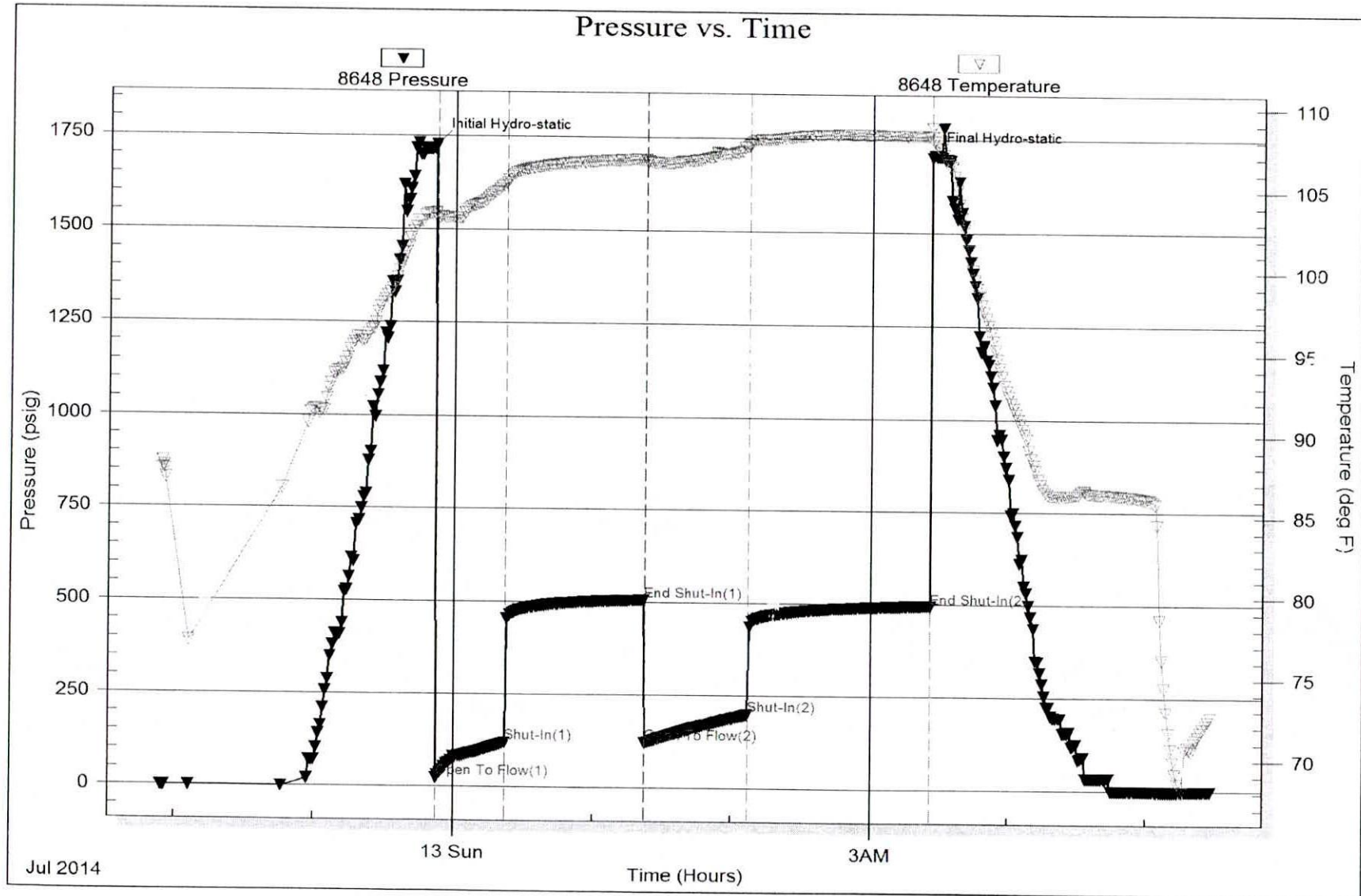
Num Gas Bombs: 0

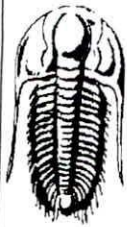
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Salinity: .09 @ 70 Degrees = 85,000





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC

155 N. Market STE 170
Wichita KS, 67202

ATTN: Aaron Young

33-6s-20w Rooks KS

States 1-33

Job Ticket: 54071

DST#: 4

Test Start: 2014.07.13 @ 16:06:00

GENERAL INFORMATION:

Formation: **LKC "J,K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:03:45

Time Test Ended: 02:14:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3605.00 ft (KB) To 3642.00 ft (KB) (TVD)**

Total Depth: 3642.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2230.00 ft (KB)

2225.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648

Inside

Press@RunDepth: 39.83 psig @ 3609.00 ft (KB)

Start Date: 2014.07.13

End Date:

2014.07.14

Capacity: 8000.00 psig

Last Calib.: 2014.07.14

Start Time: 16:06:05

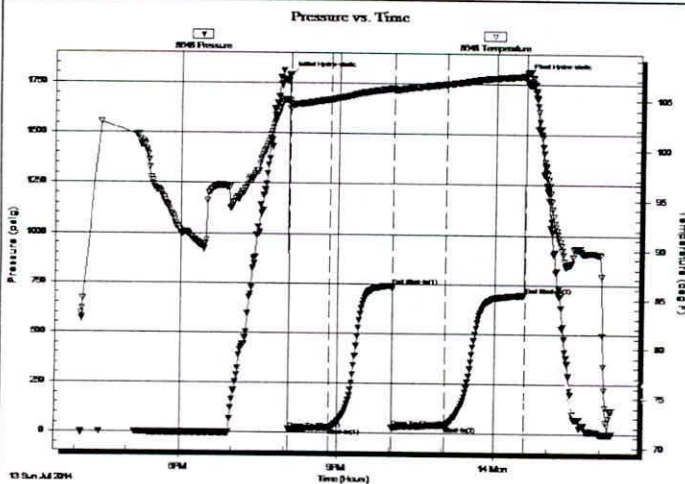
End Time:

02:14:15

Time On Btm: 2014.07.13 @ 20:03:30

Time Off Btm: 2014.07.14 @ 00:34:15

TEST COMMENT: 45 - IF- 1 1/2" blow
75 - IS- No return
60 - FF- 3/4" blow
90 - FSI- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1788.16 | 104.88 | Initial Hydro-static |
| 1 | 17.88 | 104.04 | Open To Flow (1) |
| 47 | 26.46 | 105.01 | Shut-In(1) |
| 119 | 741.17 | 106.15 | End Shut-In(1) |
| 119 | 28.17 | 105.94 | Open To Flow (2) |
| 180 | 39.83 | 106.60 | Shut-In(2) |
| 271 | 696.42 | 107.45 | End Shut-In(2) |
| 271 | 1787.57 | 107.77 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 45.00 | HOCM, 50%O, 50%M | 0.22 |
| 15.00 | GO, 5%G, 95%O | 0.07 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC

33-6s-20w Rooks KS

155 N. Market STE 170
Wichita KS, 67202

States 1-33

Job Ticket: 54071

DST#: 4

ATTN: Aaron Young

Test Start: 2014.07.13 @ 16:06:00

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 9.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 49.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 5.99 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 500.00 ppm | | | |
| Filter Cake: 2.00 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 45.00 | HOCM, 50%O, 50%M | 0.221 |
| 15.00 | GO, 5%G, 95%O | 0.074 |

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0

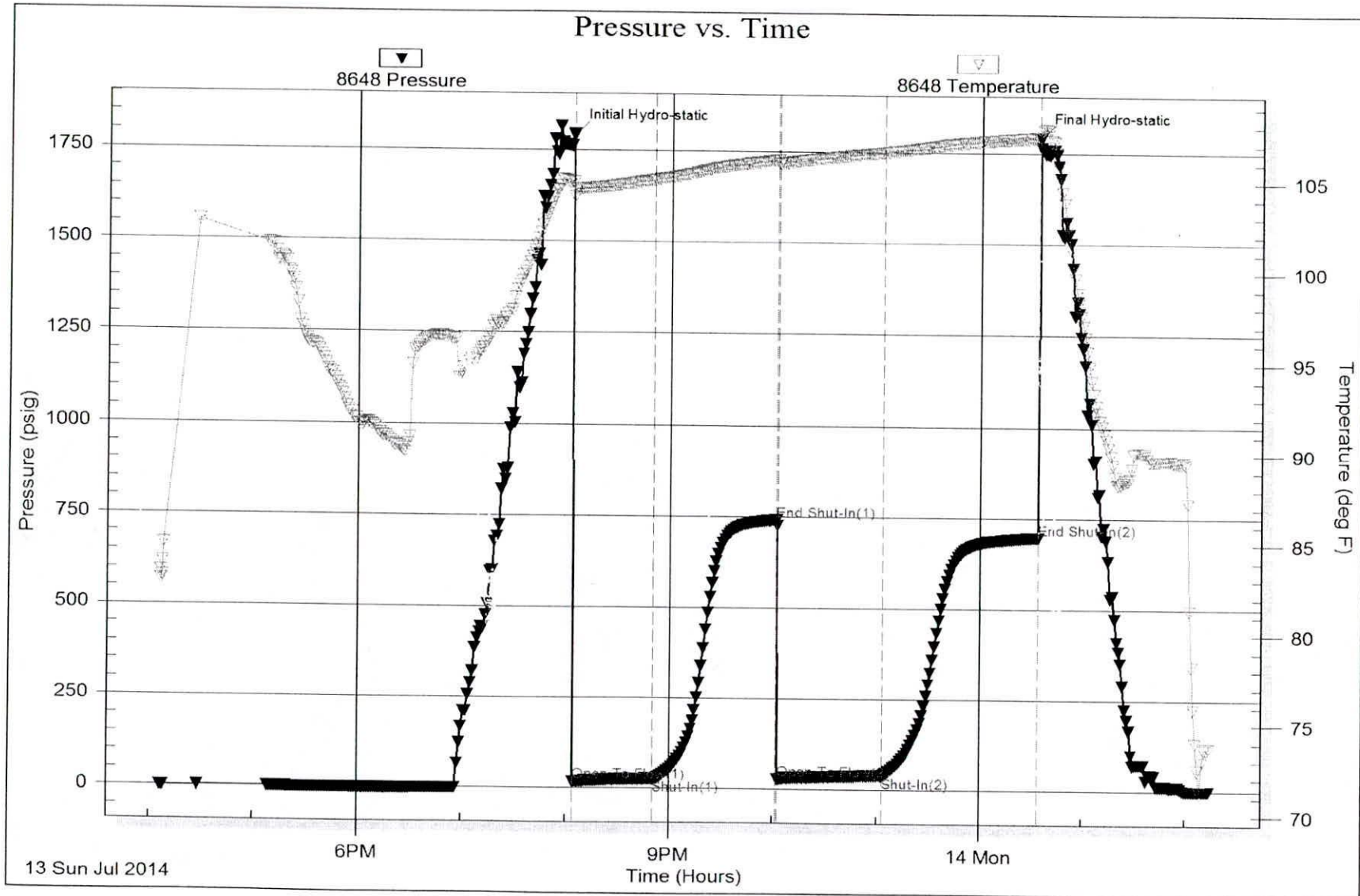
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Trek AEC LLC

155 N. Market STE 170
Wichita KS, 67202

ATTN: Aaron Young

33-6s-20w Rooks KS

States 1-33

Job Ticket: 54072

DST#: 5

Test Start: 2014.07.14 @ 12:29:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:27:00

Time Test Ended: 20:55:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Cody Bloedorn

Unit No: 73

Interval: **3676.00 ft (KB) To 3710.00 ft (KB) (TVD)**

Total Depth: 3710.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2230.00 ft (KB)

2225.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8648 Inside

Press@RunDepth: 47.42 psig @ 3680.00 ft (KB)

Start Date: 2014.07.14

End Date: 2014.07.14

Capacity: 8000.00 psig

Start Time: 12:29:05

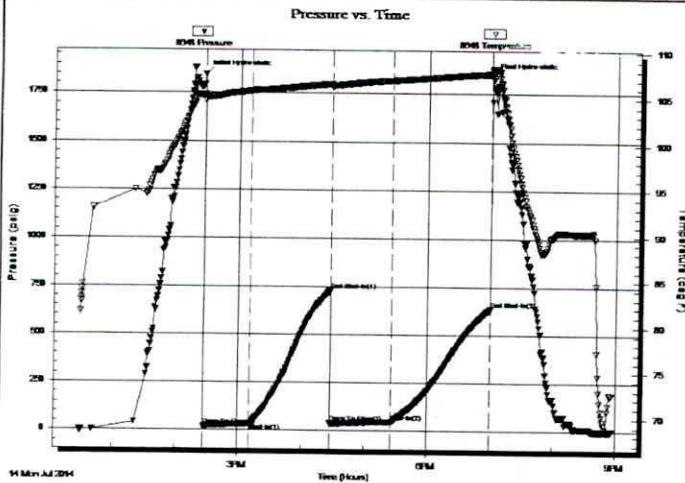
End Time: 20:55:44

Last Calib.: 2014.07.14

Time On Btm: 2014.07.14 @ 14:26:45

Time Off Btm: 2014.07.14 @ 19:01:15

TEST COMMENT: 45 - IF- 1" blow
75 - IS- No return
60 - FF- 1/4" blow
90 - FS- No return



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1845.56 | 105.43 | Initial Hydro-static |
| 1 | 20.78 | 104.67 | Open To Flow (1) |
| 45 | 34.42 | 105.80 | Shut-In(1) |
| 120 | 726.19 | 106.56 | End Shut-In(1) |
| 121 | 40.46 | 106.21 | Open To Flow (2) |
| 179 | 47.42 | 106.98 | Shut-In(2) |
| 274 | 633.74 | 107.74 | End Shut-In(2) |
| 275 | 1839.51 | 108.25 | Final Hydro-static |

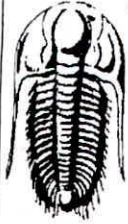
Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-----------------|--------------|
| 40.00 | OCM, 20%O, 80%M | 0.20 |
| 30.00 | Free Oil, 100%O | 0.15 |
| | | |
| | | |
| | | |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Trek AEC LLC

33-6s-20w Rooks KS

155 N. Market STE 170
Wichita KS, 67202

States 1-33

Job Ticket: 54072

DST#: 5

ATTN: Aaron Young

Test Start: 2014.07.14 @ 12:29:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1300.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-----------------|---------------|
| 40.00 | OCM, 20%O, 80%M | 0.197 |
| 30.00 | Free Oil, 100%O | 0.148 |

Total Length: 70.00 ft Total Volume: 0.345 bbl

Num Fluid Samples: 0

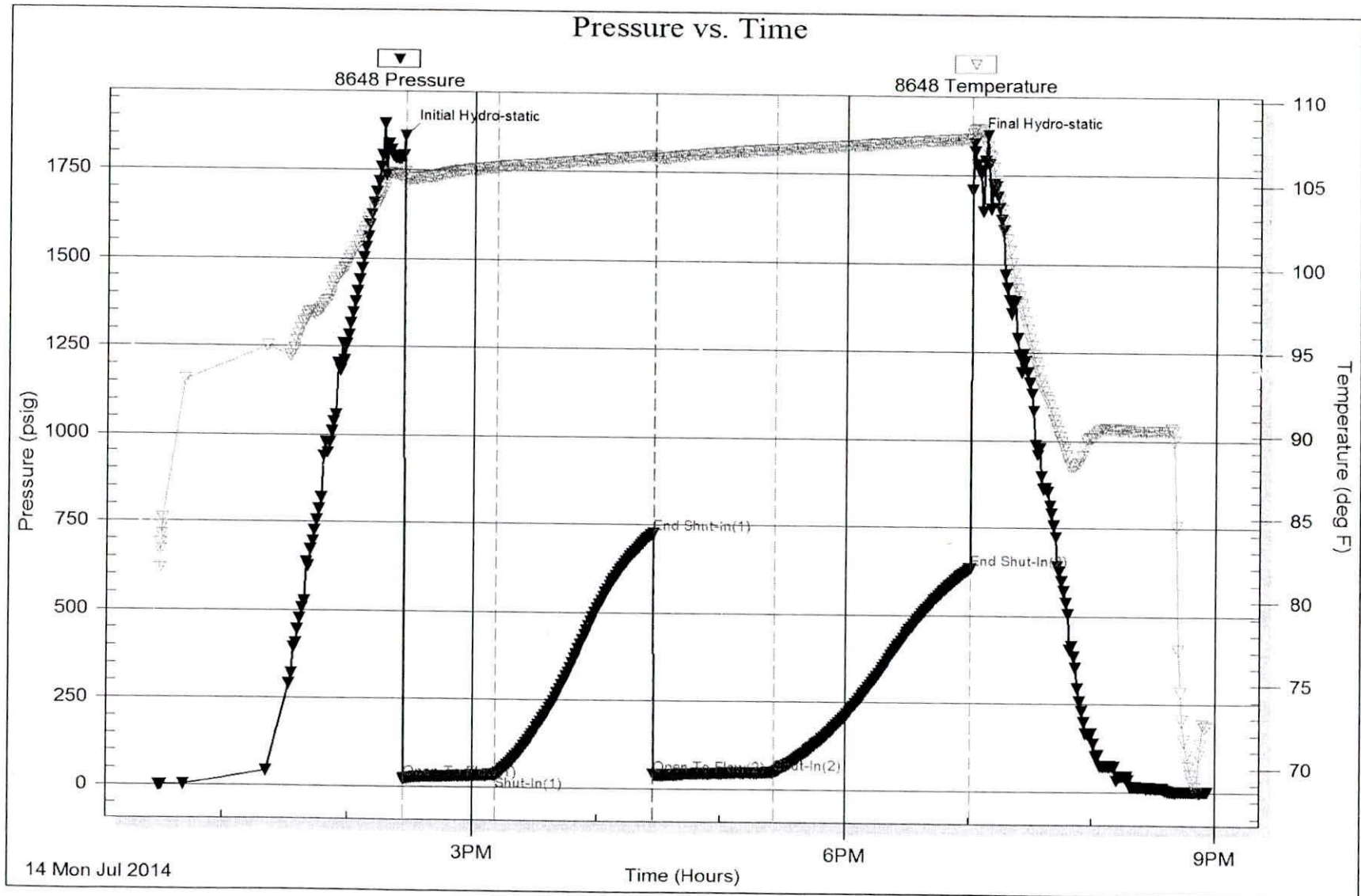
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: DID NOT smell gas in pipe.



Geologic Report

Aaron L. Young

Drilling Time and Sample Log

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

Well Name: States #1-33
 Well Id:
 Location: Section 33 - T6S - R20W
 License Number: API: 15-163-24235
 Spud Date: 7 / 8 / 2014
 Surface Coordinates: 330' FNL and 2310' FWL
 Approx. NE - NE - NW
 Bottom Hole Coordinates:
 Ground Elevation (ft): 2225' K.B. Elevation (ft): 2230'
 Logged Interval (ft): 3300' To: 3770' Total Depth (ft): 3770'
 Formation: Arbuckle
 Type of Drilling Fluid: Chemical - Mud-Co
 Region: Rooks Co., KS
 Drilling Completed: 7 / 15 / 2014
 Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Trek AEC, LLC
 Address: 155 N Market, Suite 710
 Wichita, KS 67202

GEOLOGIST

Name: Aaron L. Young
 Company: Young Consulting LLC
 Address: 155 N. Market, Suite 710
 Wichita, Kansas 67202

General Info

CONTRACTOR: WW Drilling, Rig #6

BIT RECORD:

| No. | Size | Make | Jets | Out | Feet | Hours |
|-----|--------|-----------|----------|------|------|-------|
| 1 | 12-1/4 | Smith | 14-14-15 | 259 | 254 | 2.5 |
| 2 | 7-7/8 | Smith F27 | 14-14-15 | 4770 | 4516 | 66.25 |

SURVEYS: 259' - 3459' - 1 3/4

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 35,000 lbs. on bit and approx 85 RPM.
 Running 7 stands of collars; 422.35'
 Pumping approx 800-900 psi at standpipe.

Daily Status

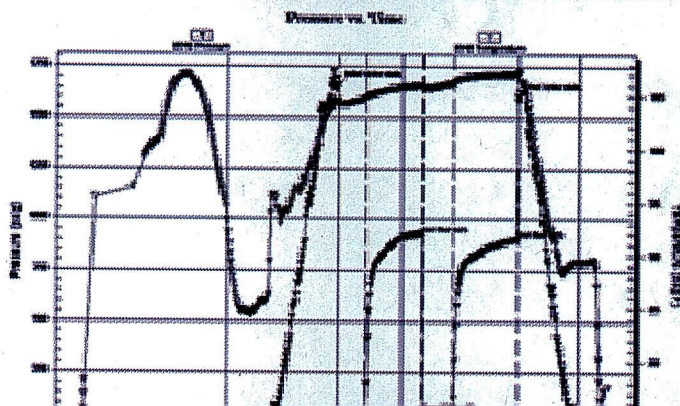
7/08/14 - Spud
 7/09/14 - Drilling @ 535'
 7/10/14 - Drilling @ 2265'
 7/11/14 - DST #1 3405'-3459'
 7/12/14 - DST #2 3472'-3498'
 7/13/14 - DST #3 3510'-3551', DST #2 3605'-3642'
 7/14/14 - DST #5 3676'-3710'
 7/15/14 - DST #4 3592'-3618'
 7/16/14 - DST #5 3524'-3654', Log and Set Casing

DST #1 Toronto & LCK 'A' 3,405'-3,459'
 30"-60"-30"-60"

IF: 1/2" blow
 ISI: No return
 FF: Surface blow
 FSI: No return

Rec': 75' Mud w/ oil spots

SIP: 929-906; FP: 35-55, 60-77; HP: 1663-1606

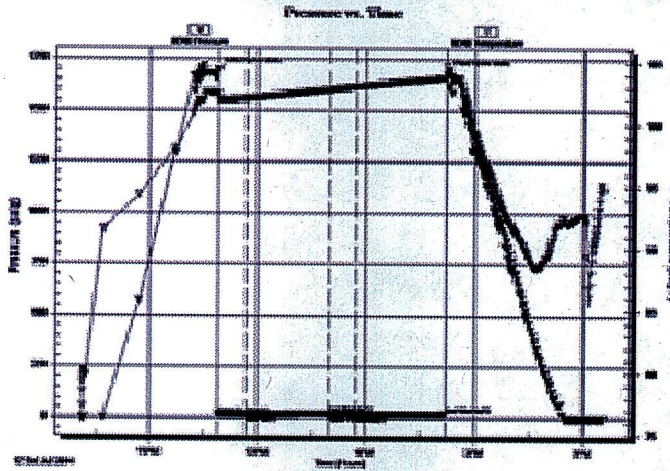


DST #2 LKC 'C' 3,472'-3,498'
15"-45"-15"-45"

IF: Surface blow, died in 9 min
ISI: No return
FF: No blow
FSI: No return

Rec': 1' Mud

SIP: 23-21; FP: 16-17, 16-17; HP: 1692-1697

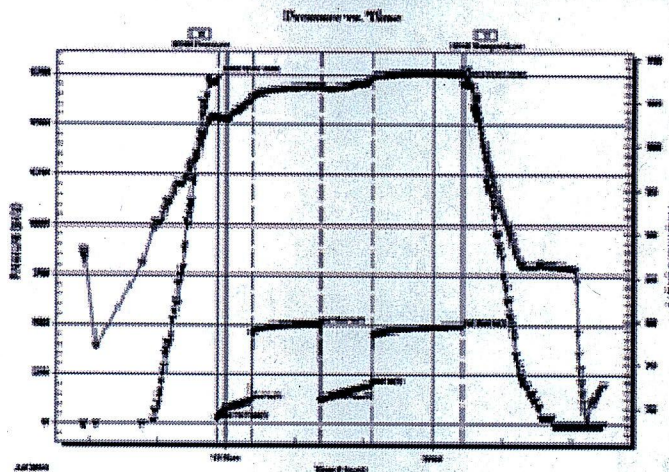


DST #3 LKC 'E', 'F', & 'G' 3,510'-3,551'
30"-60"-45"-75"

IF: BOB in 18 min
ISI: No return
FF: 8.5" blow
FSI: No return

Rec': 62' SOCWM (5% W, 10% O, 85% M), 310'
VSOCMW (5% O, 40% M, 55% W), 62' WM (30% W,
70% M), 1' Free Oil

SIP: 505-494; FP: 23-119, 122-198; HP: 1725-1701

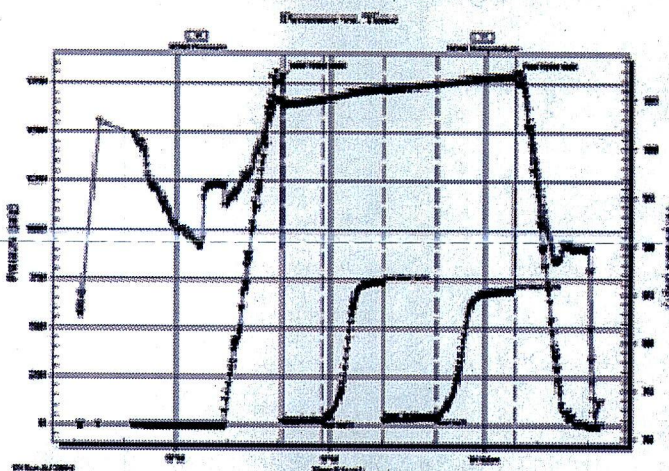


DST #4 LKC 'J' & 'K' 3,605'-3,642'
45"-75"-60"-90"

IF: 1 1/2" blow
ISI: No return
FF: 3/4" blow
FSI: No return

Rec': 45' HOCM (50% O, 50% M), 15' GO (5% G, 95%
O)

SIP: 741-696; FP: 18-26, 28-40; HP 1788-1788

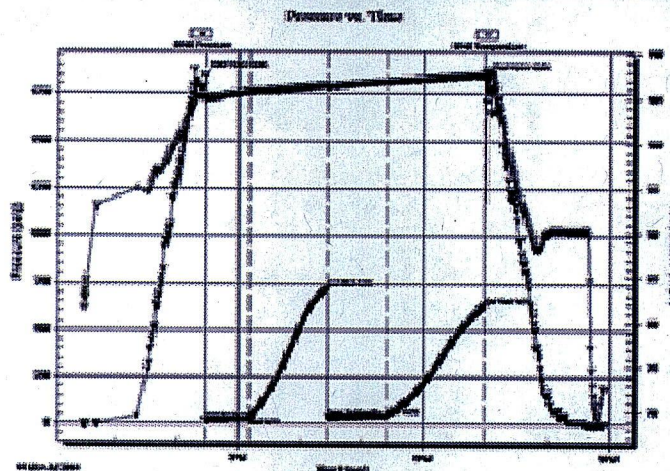


DST #5 Arbuckle 3,676'-3,710'
45"-75"-60"-90"

IF: 1" blow
ISI: No return
FF: 1/4" blow
FSI: No return

Rec': 40' OCM (20% O, 80% M), 30' Free Oil

SIP726-634, FP: 21-34, 40-47; HP: 1846-1840



ROCK TYPES

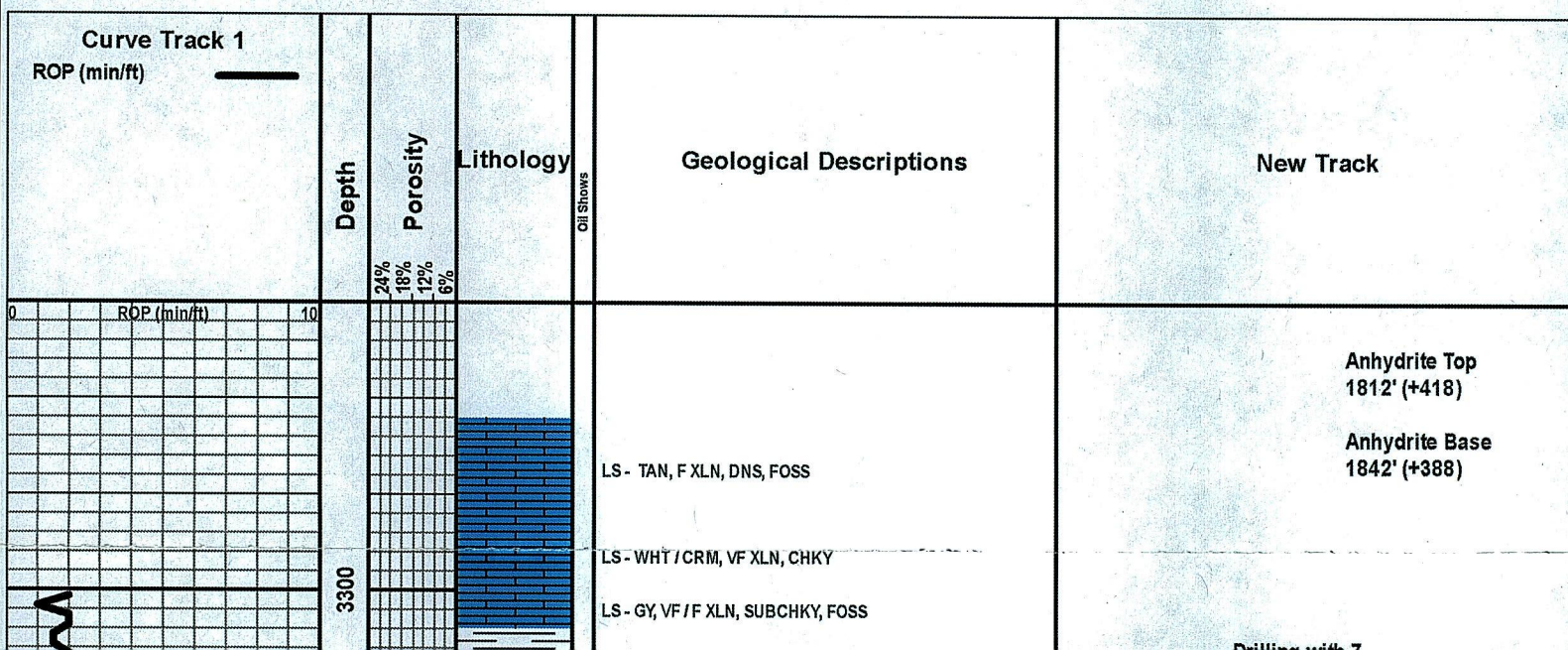
| | | | |
|-------|-------|---------|----------|
| Anhy | Gyp | Shgy | Sandylms |
| Bent | Igne | Sltst | Shale |
| Brec | Lmst | Ss | Sltstn |
| Cht | Meta | Till | Shlyslts |
| Clyst | Mrlst | Carb sh | Sltysch |
| Coal | Salt | Dol | Lms |
| Congl | Shale | Dtd | |
| Dol | Shcol | Gry sh | |

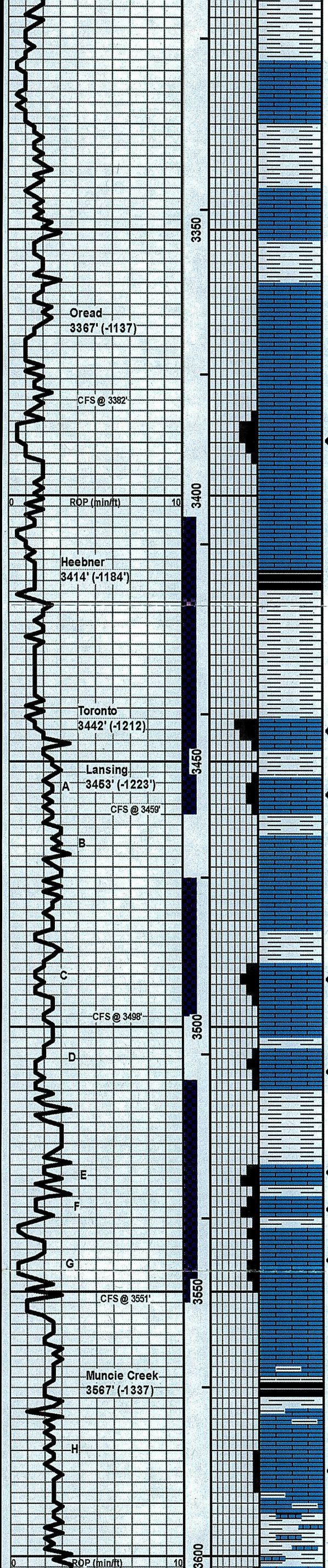
ACCESSORIES

| | | | |
|----------------|---------------|-----------------|----------------|
| MINERAL | Salt | Fossil | Clystn |
| Anhy | Sandy | Gastro | Dol |
| Arggrn | Silt | Oolite | Grysh |
| Arg | Sil | Ostra | Gryslt |
| Bent | Sulphur | Pelec | Lms |
| Bit | Tuff | Pellet | Sandylms |
| Brecfrag | Chlorite | Pisolite | Sh |
| Calc | Dol | Plant | Sltstn |
| Carb | Sand | Strom | |
| Chtdk | Sltly | Fuss | TEXTURE |
| Chtlt | | Oomold | Boundst |
| Dol | FOSSIL | STRINGER | Chalky |
| Feldspar | Algae | Anhy | Cryxln |
| Ferrpel | Amph | Arg | Earthy |
| Ferr | Belm | Bent | Finexln |
| Glau | Bioclst | Coal | Grainst |
| Gyp | Brach | Dol | Lithogr |
| Hvymin | Bryozoa | Gyp | Microxln |
| Kaol | Cephal | Ls | Mudst |
| Marl | Coral | Mrst | Packst |
| Minxl | Crin | Sltstrg | Wackest |
| Nodule | Echin | Ssstrg | |
| Phos | Fish | Carbsh | |
| Pyr | Foram | | |

OTHER SYMBOLS

| | | | |
|----------------------|-----------------|------------------|---------------|
| POROSITY TYPE | SORTING | OIL SHOWS | Dst |
| Earthy | Well | Even | EVENTS |
| Fenest | Moderate | Spotted | Rft |
| Fracture | Poor | Ques | Sidewall |
| Inter | ROUNDING | Dead | Conn |
| Moldic | Rounded | Gas show | |
| Organic | Subrnd | INTERVALS | |
| Pinpoint | Subang | Core | |
| Vuggy | Angular | Dst | |





SH - BLK, CARB, W/SH - RD / GRN / GY

LS - TAN, F XLN, DNS

SH - GRN / GY

LS - WHT / CRM, VF / F XLN, SUBCHKY

SH - RD / GRN / GY

LS - GY / SLI GRN, VF / F XLN, SUBCHKY / CHKY

LS - WHT / CRM, VF / F XLN, SUBCHKY / CHKY

LS - CRM, VF / F XLN, SUBCHKY / DNS

LS - TAN / GY, F XLN, DNS, ABUND FOSS

LS - CRM / TAN, F XLN, P / F INTXN POR, VGSFO, LT BRN OIL, G ODOR, NO FLUOR

LS - WHT / CRM, VF XLN, CHKY

LS - CRM / TAN, VF / F XLN, SUBCHKY

SH - BLK, CARB

SH - GRN / RD

LS - WHT / CRM, VF / F XLN, F INTXN POR, GSFO, LT BRN OIL, SLI ODOR, NO FLUOR

LS - WHT / CRM, VF / F XLN, F INTXN POR, GSFO, LT BRN OIL, SLI ODOR, NO FLUOR

SH - RD / MAR / GRN / GY

LS - WHT / CRM, VF / F XLN, SUBCHKY, CHKY

SH - BLK, SLI CARB, W/SH - RD / GRN / GY

LS - CRM, VF / F XLN, P / F G INTXN POR, GSFO, LT BRN OIL, SLI ODOR, NO FLUOR

LS - CRM / TAN, F XLN, DNS, SUBCHKY IN PT

LS - CRM, F XLN, P INTXN + VUG POR, GSFO, LT BRN OIL, NO ODOR, NO FLUOR

SH - RD / GRN / GY

LS - CRM, F XLN, P INTXN + VUG POR, GSFO, LT BRN OIL, NO ODOR, NO FLUOR

LS - TAN / LT BRN, F XLN, G / XLCNT POR, VGSFO, LT BRN OIL, G ODOR, NO FLUOR, W/ CALCITE XTALS IN PT

LS - WHT / CRM, VF XLN, CHKY, NS

LS - CRM, F XLN, DNS

LS - CRM / GY, F XLN, DNS

SH - BLK, CARB, W/LS - GY / BRN, VF / F XLN, DNS, SHLY, PYRITE IN PT, FOSS

LS - WHT / CRM, F XLN, PRED DNS, P INTXN POR IN PT, SSFO, LT BRN OIL, NO ODOR, SLI YEL FLUOR

SH - GRN, W/LS - GY, VF / F XLN, SHLY, W/CHT, WHT / CLR

SH - GRN, LMY, FOSS

Drilling with
stands of collars
and 35,000# of
WOB @ 85 RPM
with approx.
800-900 psi at
standpipe

DST #1
Toronto - LKC 'A'
3405'-3459'
30"-60"-30"-60"

IF: 1/2" blow
ISI: No blow
FF: Surface blow
FSI: No return

Rec': 75' Mud w/ oil spots

IH: 1663#
IF: 35#-55#
ISI: 929#
FF: 60#-77#
FSI: 906#
FH: 1606#

WT 8.8
VIS 49
LCM 2#

WT 8.9
VIS 64
LCM 2#

DST #2
LKC 'C'
3472'-3498'
15"-45"-15"-45"

IF: surface blow, died in 9 min
ISI: No return
FF: No blow
FSI: No return

Rec': 1' ft M

IH: 1692#
IF: 16#-17#
ISI: 23#
FF: 16#-17#
FSI: 21#
FH: 1697#

WT 9.1
VIS 54
LCM 2#

DST #3
LKC 'E', 'F', & 'G'
3510'-3551'
30"-60"-45"-75"

IF: BOB in 18 min
ISI: No return
FF: 8.5" blow
FSI: No return

Rec': 62' SOCWM (5% W, 10% O, 85% M), 310' VSOCMW (5% O, 40% M, 55% W), 62' WM (30% W, 70% M), 1' Free Oil (100% O)

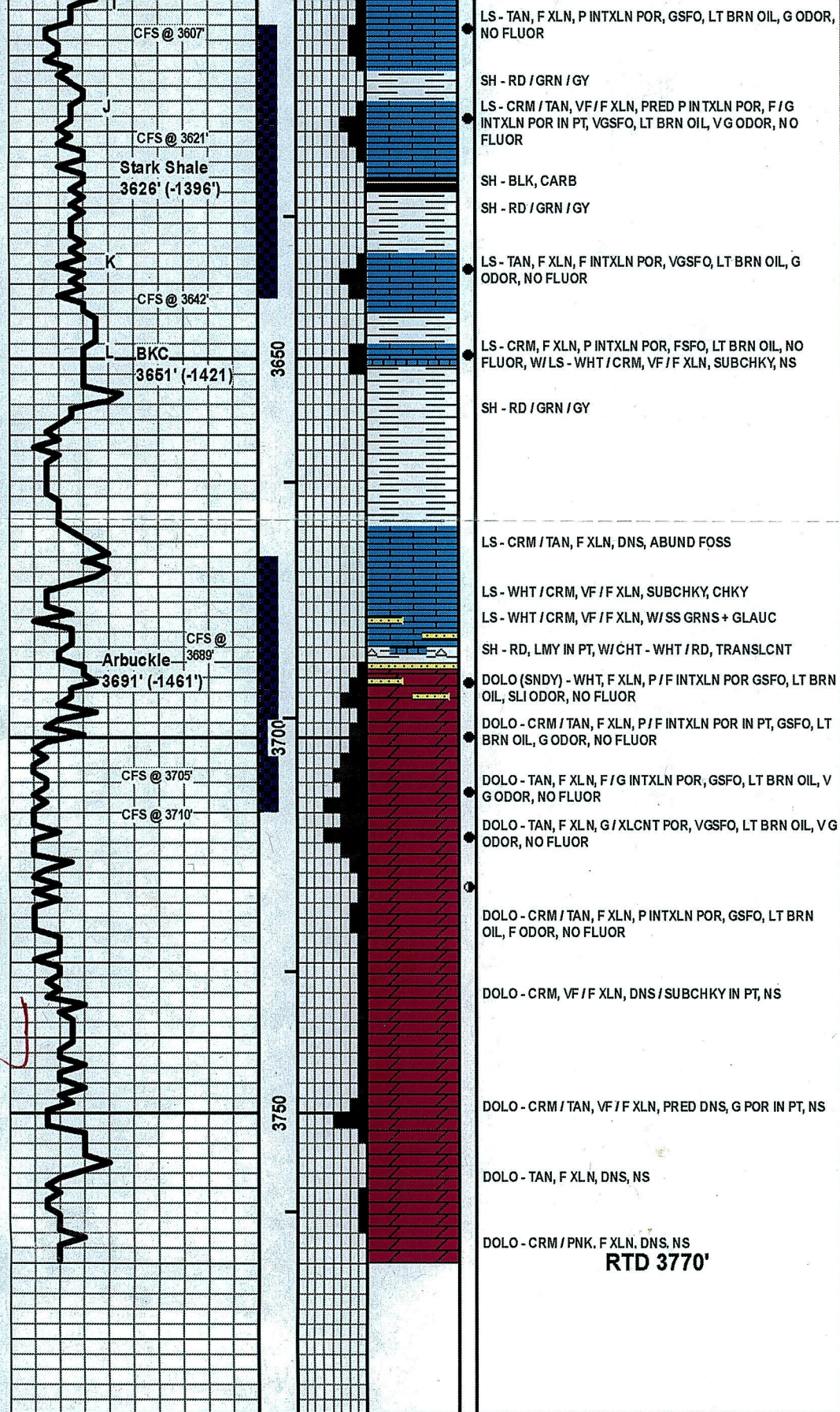
IH: 1725#
IF: 23#-119#
ISI: 505#
FF: 122#-198#
FSI: 494#
FH: 1701#

DST #4
LKC 'J' & 'K'
3605'-3642'
45"-75"-60"-90"

IF: 1 1/2" blow
ISI: No return
FF: 3/4" blow
FSI: No return

Rec': 45' HOCM (50% O, 50% M), 15' GO (5% G, 95% O)

IH: 1788#
IF: 18#-26#
ISI: 741#
FF: 28#-40#
FSI: 696#



FH: 1788#

WT 9.3
VIS 53
LCM 2#

WT 9.2
VIS 51
LCM 2#

DST #5
Arbuckle
3676'-3710'
45"-75"-60"-90"

WT 9.3
VIS 56
LCM 2#

IF: 1" blow
ISI: No return
FF: 1/4" blow
FSI: No return

Rec: 40' OCM (20% O, 80% M), 30' Free Oil

IH: 1846#
IF: 21#-34#
ISI: 726#
FF: 40#-47#
FSI: 634#
FH: 1840#