

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

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

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

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

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

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

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

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

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

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

| | | |
|---|--|------------------------------------|
| DISPOSITION OF GAS: <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) (Submit ACO-4)</i> | PRODUCTION INTERVAL: Top Bottom |
|---|--|------------------------------------|

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



CHARGE TO: *Drill Oil + Gas*

TICKET 35638

ADDRESS
CITY, STATE, ZIP CODE

PAGE 1 OF 2

SERVICE LOCATIONS

1. *Hay, KS* WELL/PROJECT NO. *1-12* LEASE *Weber* COUNTY/PARISH *Leban* STATE *KS* CITY DATE *10/31/22* OWNER *Saur*

2. *Nes, City, KS* TICKET TYPE SERVICE CONTRACTOR *STP* RIG NAME/NO. SHIPPED VIA *CT* DELIVERED TO *Location* ORDER NO.

3. WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *Central Surface Casing* WELL PERMIT NO. WELL LOCATION

4. REFERRAL LOCATION INVOICE INSTRUCTIONS

| PRICE REFERENCE | SECONDARY REFERENCE/ PART NUMBER | ACCOUNTING | | | DESCRIPTION | MILEAGE | QTY. | | QTY. | | UNIT PRICE | AMOUNT |
|-----------------|----------------------------------|------------|------|----|-------------|---------|------|-----|------|--|------------|--------|
| | | LOC | ACCT | DF | | | U/M | U/M | | | | |
| 575 | | | | | | | | | | | | |
| 576.3 | | | | | | | | | | | | |
| 194 | | | | | | | | | | | | |
| 403 | | | | | | | | | | | | |
| 409 | | | | | | | | | | | | |
| 410 | | | | | | | | | | | | |
| 412 | | | | | | | | | | | | |
| 325 | | | | | | | | | | | | |
| 278 | | | | | | | | | | | | |
| 279 | | | | | | | | | | | | |
| 581 | | | | | | | | | | | | |
| 582 | | | | | | | | | | | | |

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 _____ TIME SIGNED _____ A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN? YES NO

WE UNDERSTOOD AND MET YOUR NEEDS? YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY? YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY? YES NO

ARE YOU SATISFIED WITH OUR SERVICE? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE 1
 PAGE TOTAL 7,077.00
 TAX 7,287.00
 TOTAL

SWIFT OPERATOR *for Saur* APPROVAL _____

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

Thank You!

STP Drilling, LLC
Hill City, KS
Well Plugging Orders

Operator: Quail Oil & Gas LLC License # 33185
Address: PO Box K, Garden City, KS 67846-9633

API # 15-109-21656-00-00

Lease Name: Weber #1-12
Legals: 555' FSL & 2212' FWL, Sec 12-13S-32W
County: Logan
State: KS

| Plug # | Sx. | | Feet |
|-----------|------------|----------|--------------------------|
| 1st | <u>50</u> | <u>@</u> | <u>2550</u> |
| 2nd | <u>100</u> | <u>@</u> | <u>1525</u> |
| 3rd | <u>50</u> | <u>@</u> | <u>300</u> |
| 4th | <u>10</u> | <u>@</u> | <u>40' w/ wiper plug</u> |
| 5th | | <u>@</u> | |
| Rathole | <u>30</u> | | |
| Mousehole | | | |

Total: 240

Type: 60/40 Poz - 4% Gel - 1/4 # per sx flo-seal

Spud Report: Jennifer Hawthorne Date: 10/28/2022 Time: 10:30 AM

Orders From: Case Morris Date: 11/4/2022 Time: 9:45 AM

Reported to: Jennifer Hawthorne Date: 11/9/2022 Time: 9:00 AM

Results: D/A

FRANKS Oilfield Service

◆ 815 Main Street Victoria, KS 67671 ◆ 24 Hour Phone (785) 639-7269
 ◆ Office Phone (785) 639-3949 ◆ Email: franksoilfield@yahoo.com

TICKET NUMBER 0780
 LOCATION Hoxie
 FOREMAN JT

FIELD TICKET & TREATMENT REPORT CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY | | | | | | | | | | | | | | | | |
|---------------------------------|-------------|----------------------------|---|----------|-------|--------|---------|--------|---------|--------|-----|------|--|--|-----|-------|--|--|--|--|--|--|
| 11/8/22 | 33185 | Quail Oil & Gas LLC | 12 | 15 | 32 | | | | | | | | | | | | | | | | | |
| CUSTOMER Quail Oil & Gas LLC | | | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> <tr> <td>102</td> <td>Jack</td> <td></td> <td></td> </tr> <tr> <td>202</td> <td>Chase</td> <td></td> <td></td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table> | | | | TRUCK # | DRIVER | TRUCK # | DRIVER | 102 | Jack | | | 202 | Chase | | | | | | |
| TRUCK # | DRIVER | TRUCK # | | | | | DRIVER | | | | | | | | | | | | | | | |
| 102 | Jack | | | | | | | | | | | | | | | | | | | | | |
| 202 | Chase | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| MAILING ADDRESS PO BOX K | | | | | | | | | | | | | | | | | | | | | | |
| CITY Garden City | STATE KS | ZIP CODE 67846 +9632 | | | | | | | | | | | | | | | | | | | | |

JOB TYPE PTA HOLE SIZE _____ HOLE DEPTH _____ CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting set up on STEEL. Plug as ordered.

1) 2550' 50 cv
 2) 1525' 100 cv Plug Down 2050
 3) 300' 50 cv
 center 10 cv
 Rt 30 cv
 Thank you

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|---------------|-------------------|------------------------------------|-----------------|-------|
| PC005 | 1 | PUMP CHARGE <u>PTA</u> | | |
| M001 | 59 | MILEAGE | | |
| M002 | 10.68 ton | TMD | | |
| CB010 | 240 cv | 160140 48 1/4" FS | | |
| SA | 1 | Wooden Plug 8 3/4 | | |
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| | | | SALES TAX | |
| | | | ESTIMATED TOTAL | |

AUTHORIZATION Louise TITLE _____ DATE _____

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

GEOLOGIC REPORT

DAVID J. GOLDAK

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

Well Name: Weber #1-12
API: 15-109-21656-0000
Location: Section 12 - T13S - R32W
License Number: _____
Spud Date: 10 / 31 / 2022
Surface Coordinates: 555' FSL and 2212' FWL
NW - SE - SE - SW
Bottom Hole Coordinates: _____
Ground Elevation (ft): 3004' K.B. Elevation (ft): 3011'
Logged Interval (ft): 3500' To: 4753' Total Depth (ft): 4753'
Formation: Mississippian - Spergen
Type of Drilling Fluid: Chemical - Mud Co

Region: Logan Co., KS
Drilling Completed: 11 / 08 / 2022

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

OPERATOR

Company: Quail Oil & Gas, LC
Address: PO Box K
Garden City, KS 67846

GEOLOGIST

Name: David J. Goldak
Company: D. J. GOLDAK, INC.
Address: 12427 W Ridgepoint Cir
Wichita, Kansas 67235

General Information

CONTRACTOR: STP Drilling, Rig #1

BIT RECORD:

| No. | Size | Make | Jets | Out | Feet | Hours |
|-----|-------|-------------|----------|-------|-------|-------|
| 1 | 12.25 | Smith-Tooth | 3-15s | 262' | 262' | 2.50 |
| 2 | 7.875 | Smith-F27 | 15-15-14 | 4293' | 4031' | 99.50 |
| 3 | 7.875 | Smith-F27 | 15-15-14 | 4753' | 460' | 34.75 |

SURVEYS: 262'-0.75, 1151'-0.75, 2231'-0.75, 3216'-0.75, 4293'-1.50

GENERAL DRILLING AND PUMP INFORMATION:

Drilling with 16 collars (6.25"x2.25"): 474.72'
Drilling with 35,000-37,000 lbs on bit and 65-70 RPM
Pumping 60 S/M; 7.74 B/M; and 850-950 PSI at the standpipe

Daily Status

10/31/22 - Spud at 8:15 AM; Set 8-5/8" Csg at 262'; PD @ 1:30 PM 07/13/21; DP @ 9:30 PM
 11/01/22 - 802' WOC; Pump repair @ 1,151'
 11/02/22 - 1,850' Drilling
 11/03/22 - 2,962' Drilling; Displace mud @ 3,484'
 11/04/22 - 3,650' Drilling
 11/05/22 - 4,095' Drilling
 11/06/22 - 4,293' On bottom w/ DST #1
 11/07/22 - 4,490' Drilling
 11/08/22 - 4,753' Preparing to plug well

| | Sample Tops | Log Tops |
|--|-------------|----------|
|--|-------------|----------|

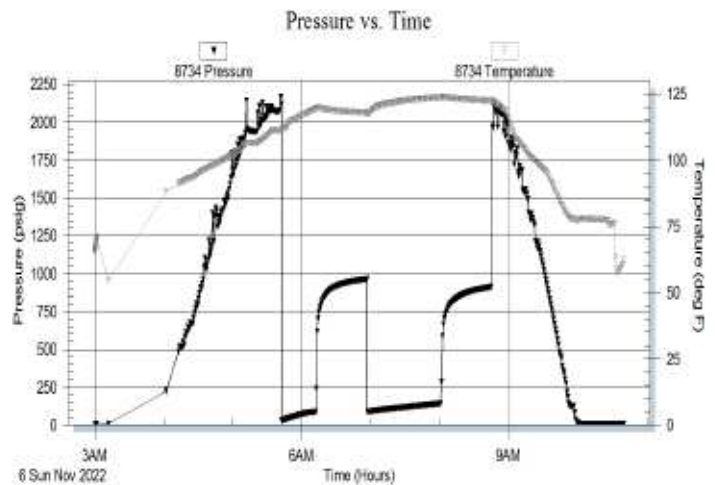
| | |
|---------------|--------------|
| Anhydrite | 2515 (+496) |
| Base/Anhy | 2538 (+473) |
| Stotler | 3648 (-637) |
| Heebner | 3997 (-986) |
| Lansing | 4040 (-1029) |
| Muncie Creek | 4185 (-1174) |
| Stark Shale | 4268 (-1257) |
| BKC | 4338 (-1327) |
| Marmaton | 4358 (-1347) |
| Pawnee | 4473 (-1462) |
| Ft Scott | 4526 (-1515) |
| Cherokee | 4551 (-1540) |
| Johnson Zone | 4597 (-1586) |
| Mississippian | 4652 (-1641) |
| Total Depth | 4753 (-1742) |

DST #1: 4,266' - 4,293' (Swope)
 30" - 45" - 60" - 45"

IF: Fair blow building to 5.5 inches
ISI: No return blow
FF: Fair blow building to 8.5 inches
FSI: No return blow

RECOVERY: 250' Total Fluid, consisting of:
 250' MCW (71% W & 29% M) w/oil spots in tool
 Chlorides recovery: 22,000 ppm

IFP: 29-88; ISIP: 963; FFP: 89-144; FSIP: 911; BHT: 122



ROCK TYPES

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

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclst
- 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

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

STRINGER

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

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

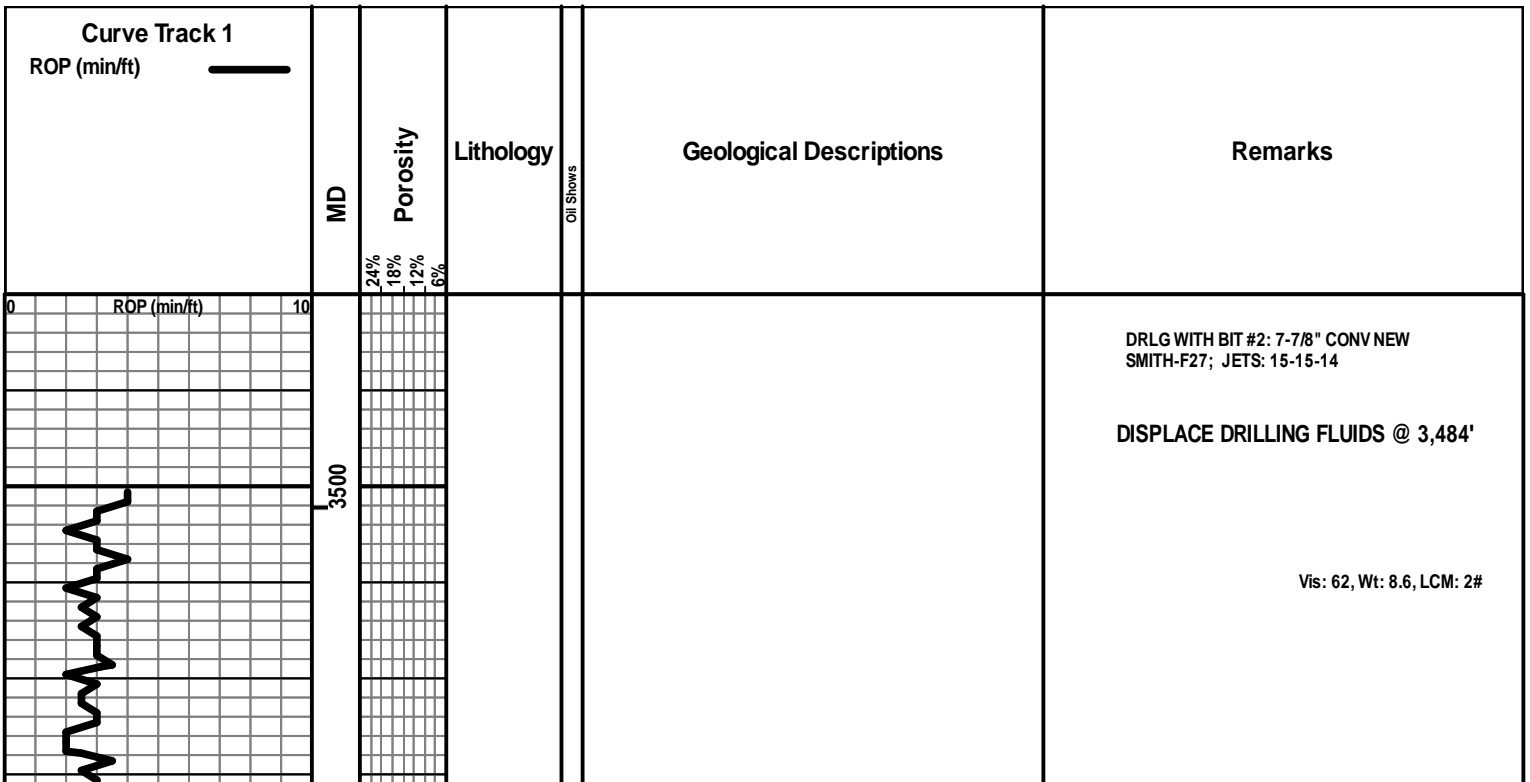
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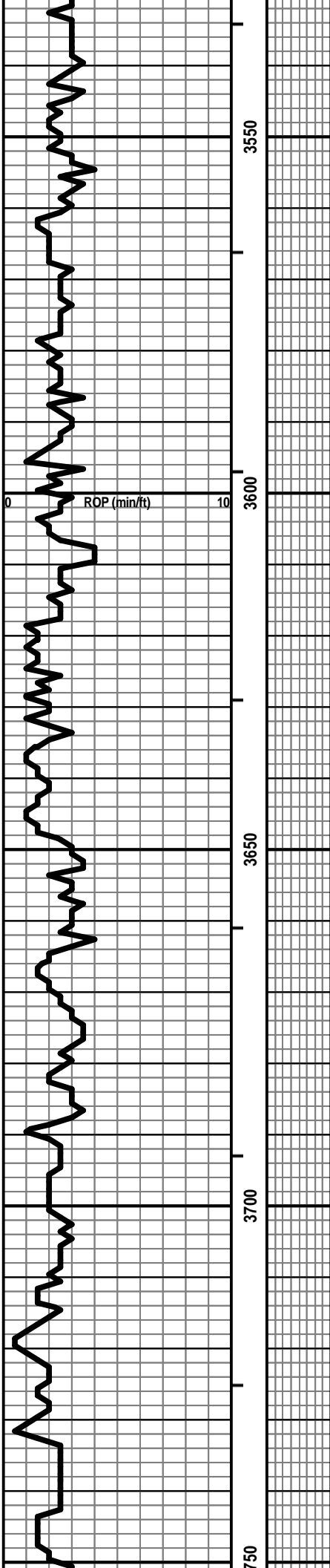
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- Dst

- Dst_1_t
- Dst_1_b
- Dst

EVENTS

- Rft
- Sidewall
- Conn

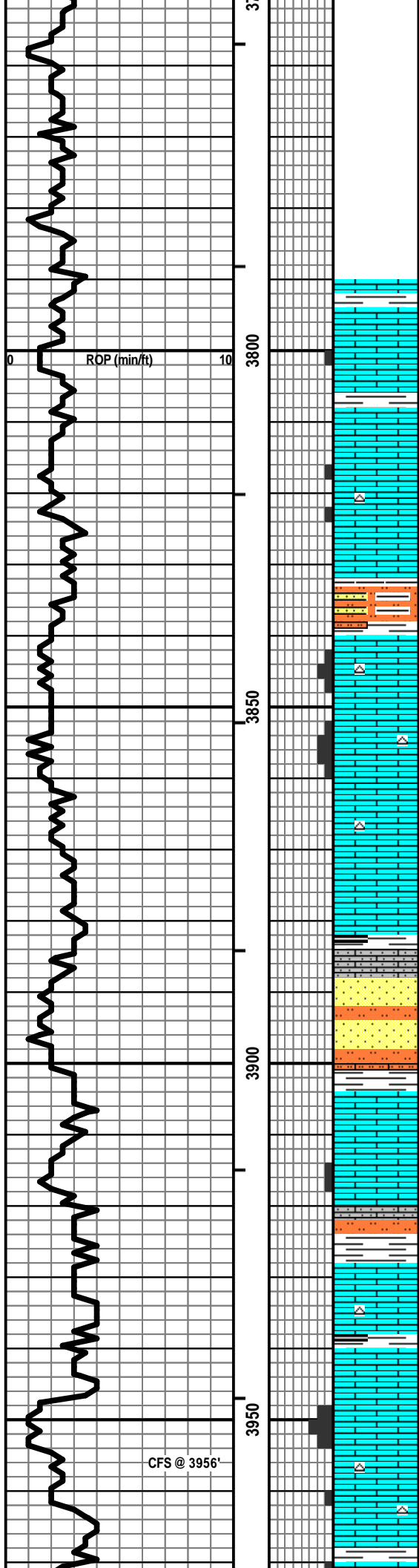




Vis: 58, Wt: 8.6, LCM: 2#

STOTLER 3648 (-637)

Vis: 54, Wt: 8.7, LCM: 2#



LS - CRM / TAN / BRN, F XLN, SCAT REXLN CALC, FOSS, OOL IN PT, P INTXLN & PPT POR IN PT, SCAT CHKY, PRED DNS, NS

LS - GY / BRN / TAN, MOT IN PT, F XLN, FOSS IN PT, PRED DNS, NS

LS - AA W/LS - TAN / CRM, F XLN, SCAT REXLN CALC, SCAT P INTXLN POR, NS W/SCAT CHT - WHT / GY

LS - TAN, F XLN, CHKY, ARGIL IN PT W/ SH & SCAT SLTST - GY

SLTST - GY, ARGIL IN PT W/ SS - GY, SLT / VF GR, ARGIL IN PT, NS W/ SH - PRED GY

LS - CRM / WHT, F XLN, SL FOSS, SCAT P / F INTXLN POR, MOD CHKY, NS W/ SCAT CHT - WHT

LS - CRM / TAN / WHT, F XLN, FOSS IN PT, P / F INTXLN & FOSSMOLD POR, CHKY IN PT / DNS, NS W/ SCAT CHT - WHT

LS - TAN / CRM / SCAT BRN, F XLN, FOSS & OOL IN PT, SCAT CHKY, PRED DNS, NS W/ SCAT SH - GY / BLK

LS - TAN / GY, F XLN, AREN, DNS, NS W/ SS - LT / MED GY, SLT / VF GR, CALC, NS W/ SLTST - GY

AS ABOVE W/ SH - PRED GY W/LS - TAN, F XLN, SCAT OOL, PRED DNS, NS

LS - TAN / CRM, F XLN, DOLO IN PT, OOL IN PT, SCAT INTXLN / INTPART POR, NS

LS - TAN / GY, F XLN, AREN, DNS, NS W/ SLTST & SS - GY / REDISH, SLT / VF GR, NS W/ SH - GY W/LS - CRM / LT GY, VF / F XLN, PRED DNS, NS

LS - CRM / LT GY, VF / F XLN, FOSS IN PT, PRED DNS, NS W/ SCAT CHT - LT GY / WHT / CRM

LS - ASABOVE W/LS - CRM / TAN, MOT IN PT, F XLN, SCAT REXLN CALC, FOSS & OOL, F INTXLN & PPT POR IN PT, SCAT VUG POR, SUBCHKY / CHKY IN PT, SL / SCAT F SFO, SCAT GILS & BARR POR, V FT ODOR, SCAT SPTY STN, F FLUOR, F / G CUT

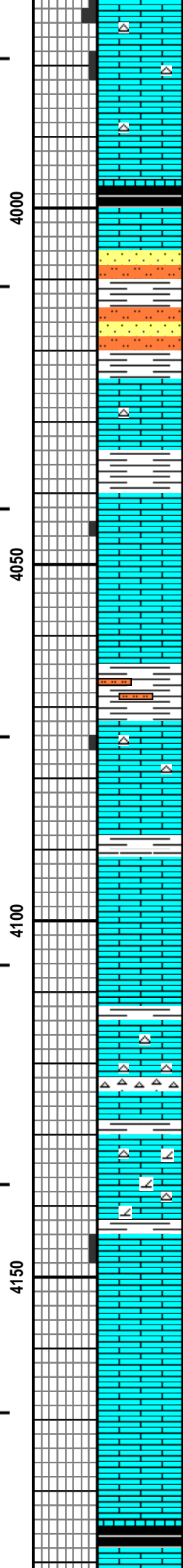
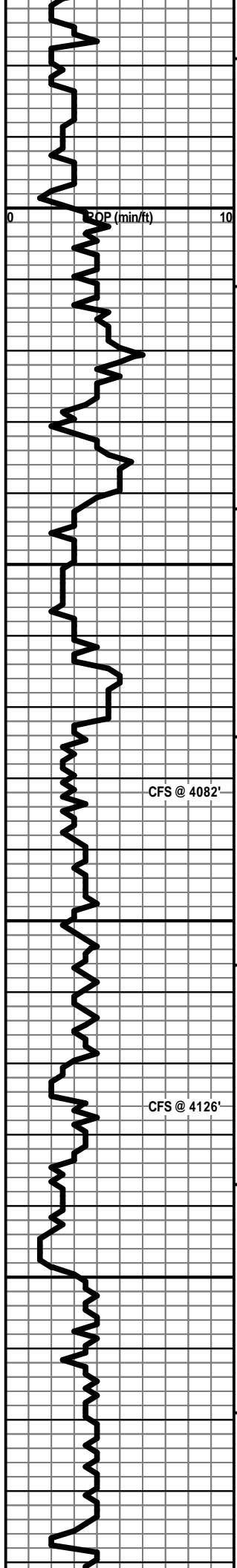
LS - SIM TO ABOVE, SCAT P INTXLN POR, CHKY IN PT / DNS, NS W/ CHT - WHT / LT GY W/LS - TAN / BRN / GY, MOT IN PT, F XLN, SL FOSS, DNS, NS

BEGIN WET & DRY SAMPLES

Vis: 53, Wt: 9.0, LCM: 2#

OREAD 3940 (-929)

Vis: 53, Wt: 9.1, LCM: 2#



LS - TAN / CRM, F / VF XLN, FOSS, F PPT & FOSSMOLD POR IN PT, SCAT P / F INTXLN POR, NS W / CHT - WHT / LT GY

LS - TAN, F / VF XLN, SL FOSS, SCAT INTXLN POR, CHKY IN PT / PRED DNS, NS W / CHT - AA

LS - ASABOVE, OOL IN PT, PRED DNS, NS W / SH - BLK, CARB

LS - TAN / BRN, F XLN, SL FOSS, PRED DNS, NS W / SS - GY, SLT / VF GR W / SLTST - GY

SH - GY / GRN / RED W / SLTST - GY W / SS - GY, SLT / VF GR, NS

LS - WHT / CRM, VF / F XLN, FOSS IN PT, CHKY / SUBCHKY IN PT / PRED DNS W / SCAT CHT - LT GY

SH - GRN / GY

LS - CRM / TAN / SCAT LT GY, F XLN, OOL IN PT, TR P INTOOL POR, SUBCHKY / DNS, NS

LS - CRM / WHT / SCAT TAN, F / SCAT M XLN, SCAT OOL, CHKY IN PT, PRED DNS, NS

SH - GY / GRN / RED, SLTY IN PT (WASHES RED)

LS - CRM / TAN, F XLN, SCAT REXLN CALC, OOL & FOSS IN PT, SCAT PINTXLN / INTPART POR, TR P PPT POR, PRED DNS, TR GILS, PRED NS, NO ODOR W / CHT - LT GY / WHT

LS - TAN / CRM, F / VF XLN, SL FOSS, SCAT CHKY, PRED DNS, NS W / SCAT SH - GY / BLK

LS - CRM, F / VF XLN, SCAT FOSS, PRED DNS, NS

LS - CRM / TAN, F / VF XLN, SCAT REXLN CALC, SL FOSS, PRED DNS, NS

LS - ASABOVE W / LS - TAN, F XLN, OOL & FOSS IN PT, PRED DNS, NS W / CHT - GY / TAN W / SCAT SH - PRED GY

ABNT CHT - GY / TAN W / LS - TAN / CRM, F XLN, TR P INTXLN POR, PRED SUBCHKY / DNS, NS

LS - CRM / TAN, F / VF XLN, DOLO IN PT, PRED DNS, NS W / CHT - LT GY / WHT

LS - TAN / CRM, F XLN, DOLOMITIC, PRED DNS, NS W / CHT - LT GY / WHT

LS - CRM, F XLN, OOL, PRED P / TR F INTPART POR IN PT, CHKY IN PT, SOME DNS, NS

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

LS - ASABOVE

LS - CRM / TAN / LT GY, F / VF XLN, SCAT OOL, PRED DNS, NS

AS ABOVE W / SH - BLK, CARB W / LS - GY / BRN, MOT IN PT, F XLN, DNS, NS W / CHT - GY / BRN

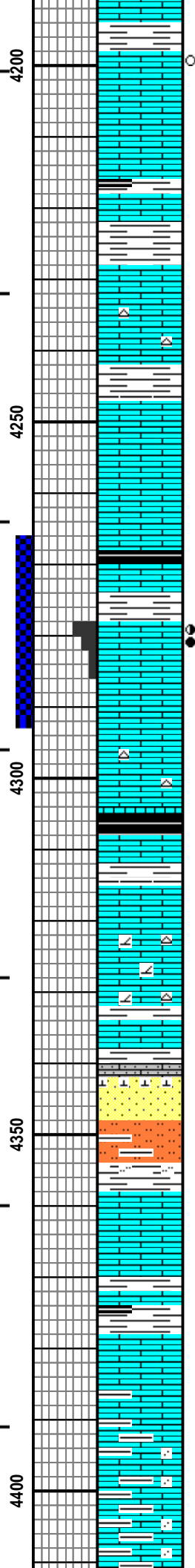
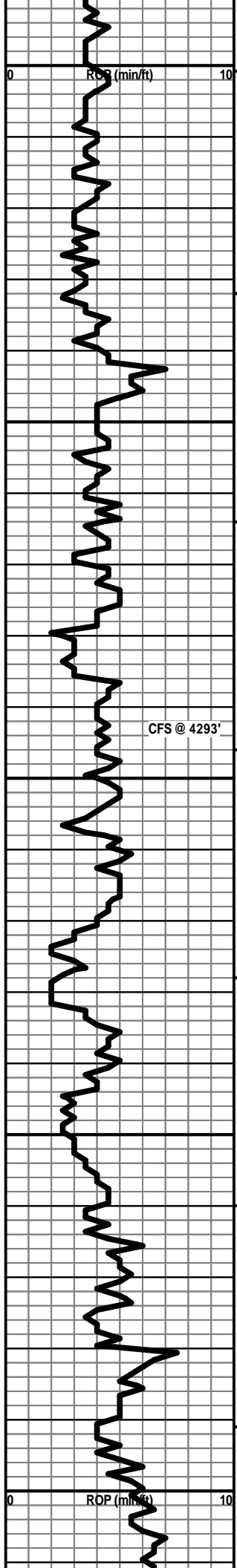
HEEBNER 3997 (-986)

LANSING 4040 (-1029)

Vis: 50, Wt: 9.2, LCM: 2#

Vis: 52, Wt: 9.1, YP: 16,
GelS: 11/30, pH: 11.0, WL: 7.2,
Chl: 2,000, Sol: 5.4, LCM: 2#

MUNCIE CREEK 4184 (-1174)



LS - GY / BRN, AS ABOVE W/ SH - GY W/ LS - CRM / LT GY / SCAT TAN, MOT IN PT, F XLN, OOL, FEW PCS P INTXLN POR, TR FO & ASPH, SPTY BRN / BLK STN, NO ODOR

LS - GY / CRM, F / VF XLN, SCAT OOL & FOSS, PRED DNS, NS

LS - AS ABOVE W/ LS - TAN / BRN, MOT IN PT, F XLN, PRED DNS, NS W/ SCAT SH - GY / BLK

LS - TAN / BRN, AS ABOVE W/ SH - GY W/ LS - CRM / LT GY / TAN, MOT IN PT, F XLN, SCAT REXLN CALC, OOL IN PT, PRED DNS, NS

LS - CRM / TAN, F XLN, OOL IN PT, SL FOSS, PRED DNS, NS W/ CHT - LT GY / WHT / TAN

SH - GY / GRN / RED (WASHES RED)

LS - TAN / CRM / GY, MOT IN PT, F XLN, OOL IN PT, SCAT CHK, PRED DNS, NS

LS - AS ABOVE, NS W/ ABNT SH - BLK, CARB

LS - TAN / BRN, F XLN, DNS, NS W/ SH - PRED GY

LS - TAN / CRM, F / M XLN, OOL, SL FOSS, SCAT VUG POR, F INTXLN & INTPART POR IN PT, FSFO, G ODOR, SPTY / SCAT SAT STN, G FLUOR & CUT

LS - CRM / TAN, F XLN, OOL & FOSS IN PT, SCAT CHKY, PRED DNS, NS

LS - TAN / CRM, F XLN, SL FOSS, SUBCHKY / DNS, NS W/ CHT - GY / WHT

SH - BLK, CARB W/ LS - BRN / GY / TAN, MOT IN PT, F XLN, REXLN CALC, PRED DNS, NS

LS - TAN / GY, F XLN, SL FOSS, PRED DNS, NS

LS - TAN / CRM, F / VF XLN, DOLO IN PT, TR INTXLN POR, MOD CHKY, NS W/ CHT - GY / WHT

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

LS - GY / TAN, F XLN, V AREN, DNS, NS W/ SS - LT / MED GY, SLT / VF GR W/ SLTST - GY W/ SH - GY

SH & SLTST - AS ABOVE W/ LS - CRM / TAN, VF / CRYPTO XLN, PRED DNS, NS

LS - CRM / TAN / SCAT GY, F / VF XLN, SL FOSS, SCAT CHK, PRED DNS, NS

SH - GY / GRN / SCAT BLK W/ LS - TAN, F XLN, SCAT REXLN CALC, PRED DNS, NS

LS - TAN / SCAT BRN, MOT IN PT, F XLN, PRED DNS, NS W/ MOD AMT SH - GY / RED / GRN, SLTY IN PT

LS - TAN / GY, F XLN, AREN IN PT, PRED DNS, NS W/ SH - PRED GY, SLTY IN PT

LS - GY / SCAT TAN, F XLN, AREN IN PT, PRED DNS, NS W/

Vis: 51, Wt: 9.3, LCM: 2#

STARK SHALE 4268 (-1257)

DST #1: 4266-4293
SEE DST HEADER FOR RESULTS

PIPE STRAP: LONG 2.36' (WINDY CONDITIONS)

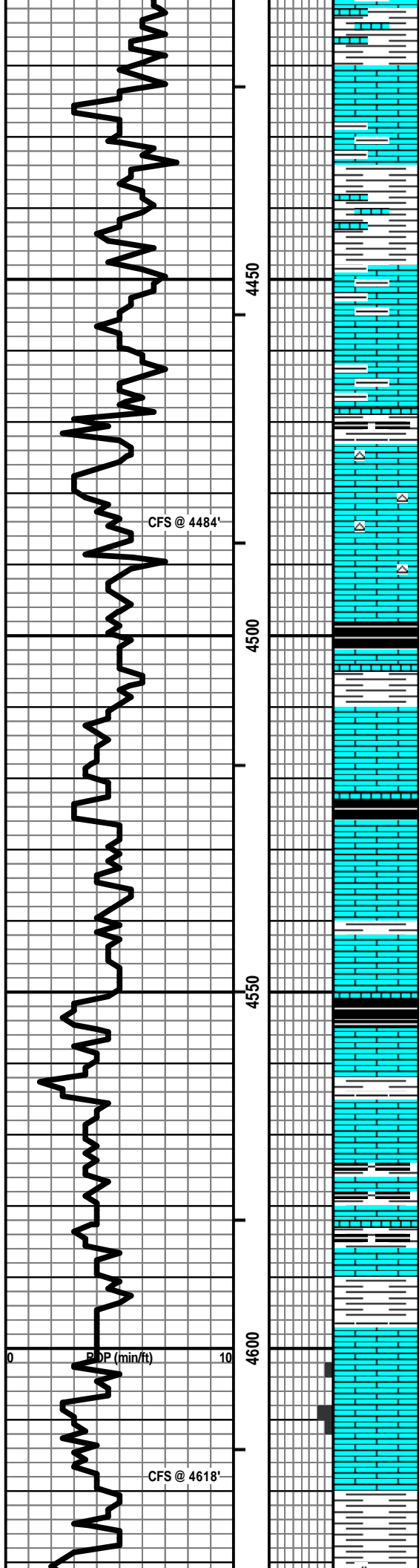
DRLG WITH BIT #3: 7-7/8" CONV USED
SMITH-F27; JETS: 15-15-14

Vis: 67, Wt: 9.3, YP: 20,
GelS: 13/34, pH: 10.5, WL: 8.0,
Chl: 2,700, Sol: 6.4, LCM: 2#

BASE OF KC 4338 (-1327)

Vis: 57, Wt: 9.3, LCM: 2#

MARMATON 4358 (-1347)



SH - GY/RED, SLTY IN PT

LS - TAN / SCAT BRN & GY, F XLN, PRED DNS, NS W/ ABNT
SH - GY/RED / SCAT BLK & GRN

LS - TAN / BRN, F / VF XLN, FOSS IN PT, SCAT CHK, PRED
DNS, NS W/ MOD AMT SH - PRED GY

ABNT SH - GY/SCAT RED W/LS - LT GY/TAN, VF XLN,
PRED DNS, NS

SH - GY/RED / GRN / BRN W/LS - TAN / CRM, MOT IN PT,
SUBCHKY / DNS, NS

LS - TAN / BRN / SCAT CRM, MOT IN PT, FOSS IN PT, SCAT
OOL, PRED DNS, NS

LS - TAN / GY, MOT, F / M XLN, FOSS, ARGIL, PRED DNS, NS
W/SH - GY/SCAT BLK

LS - CRM / SCAT TAN, VF / F XLN, SL FOSS, SCAT CHK,
PRED DNS, NS W/CHT - LT GY / CRM

LS - CRM / TAN, VF / F XLN, FOSS IN PT, CHKY IN PT / DNS,
NS W/CHT - LT GY / WHT

LS - TAN / CRM, MOT IN PT, F XLN, FOSS IN PT, CHKY IN PT /
DNS, NS W/CHT - LT GY / WHT

LS - AS ABOVE W/SH - BLK, CARB W/LS - BRN / TAN, MOT
IN PT, F XLN, DNS, NS

SH - GY W/LS - PRED BRN / TAN, AS ABOVE

LS - CRM / TAN, F XLN, OOL IN PT, SL FOSS, MOD CHKY,
PRED DNS, NS W/CHT - LT GY

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

LS - GY / TAN, F XLN, SL FOSS, PRED DNS, NS W/SH - GY

(CAVINGS TRASH DUE TO 5 STAND TRIP)

LS - CRM / SCAT GY, MOT IN PT, F XLN, OOL, ARGIL IN PT,
DNS, NS W/SH - BLK, CARB

LS - CRM / TAN, F / VF XLN, OOL & FOSS IN PT, FEW PCS TR
P INTXLN POR, TR GILS, NSFO, NO ODOR, PRED SUBCHKY /
DNS W/SH - GY

LS - TAN / CRM / BRN, MOT IN PT, F XLN, SL FOSS & OOL,
PRED DNS, NS W/SH - GY / BLK

LS & SH - V SIMILAR TO ABOVE

LS - CRM / TAN, F XLN, SL FOSS, PRED DNS, FEW PCS P PPT
POR, VSSFO, NO ODOR, SPTY STN

LS - V SIM TO ABOVE, FEW PCS BARR POR, PRED DNS, NS

LS - CRM, F XLN, FOSS IN PT, SCAT P/F PPT & VUG POR, SL
/ F SFO, FT ODOR, SCAT SPTY STN, F / G FLUOR & CUT

LS - AS ABOVE, NO VIS POR, NS W/SH - VARICOL

PRED SH - PRED GY & GRN, SCAT YEL & RED W/LS - AS
ABOVE, NS

Vis: 58, Wt: 9.3, LCM: 2#

PAWNEE 4473 (-1462)

Vis: 59, Wt: 9.4, YP: 19,
GelS: 12/35, pH: 10.0, WL: 8.8,
Chl: 2,500, Sol: 7.3, LCM: 2#

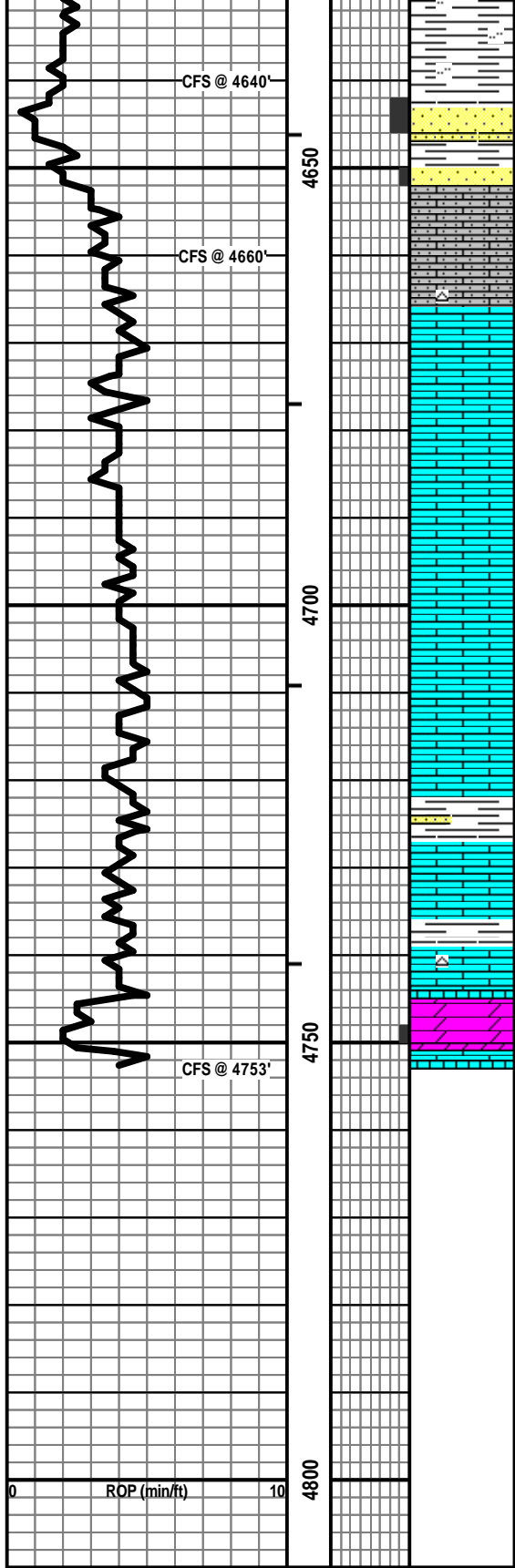
FT SCOTT 4526 (-1515)

PULL 5 STANDS AND REPAIR KELLYHOSE @ 4551';
DID NOT CTCH; 4560' SAMPLE FULL OF CAVINGS

CHEROKEE SH 4551 (-1540)

JOHNSON ZONE 4597 (-1586)

Vis: 53, Wt: 9.3, LCM: 3#



SH - PRED GY, SCAT YEL & RED, SLTY IN PT

SH - GY W/ MOD AMT SS - LT GY, F / M GR, W SRTD, SR / R, SIL CEM, GLAUC IN PT, P / F / SCAT G INTGR POR, NS

SH - GY W/ SS - AS ABOVE, NS W/ MOD AMT LS - CRM / WHT / TAN, VF / F XLN, AREN, OOL, CHKY / DNS, NS

LS - CRM / WHT / SCAT TAN, VF / F XLN, AREN, OOL, SUBCHKY / CHKY / DNS, NS

LS - AS ABOVE, NS W/ SCAT LS - TAN / CRM, VF / CRYPTO XLN, OOL IN PT, DNS, NS W/ TR CHT - WHT / TAN

LS - TAN / SCAT CRM, PRED CRYPTO XLN, DNS, NS

LS - TAN / SCAT CRM & WHT, CRYPTO XLN, CHKY IN PT, PRED DNS, NS

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

LS - AS ABOVE, NS

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

ABNT SH - GY / GRN / YEL / RED W/ SCAT SS - LT GY / CLR, VF GR, W SRTD, SA / SR, CALC CEM, LMY IN PT, ARGIL IN PT, P / NO POR, NS W/ LS - SIM TO ABOVE

LS - TAN / CRM, F XLN, FNLY OOL, DNS, NS W/ MOD AMT SH - VARI COL, AA W/ TR CHT

DOLOMITE - TAN, F / VF XLN, SCAT PPT POR, PRED DNS, NS W/ SCAT CHT

MISSISSIPPIAN 4652 (-1641)

Vis: 54, Wt: 9.3, LCM: 3#

TOTAL DEPTH 4753 (-1742)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Quail Oil & Gas LLC
P.O. Box K
Garden City, KS 67846
ATTN: Dave Goldak

12-13S.-32W. Logan,KS

Weber # 1-12

Job Ticket: 69488

DST#: 1

Test Start: 2022.11.06 @ 03:00:00

GENERAL INFORMATION:

Formation: **Swope**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:42:40

Time Test Ended: 10:40:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Martine Salinas

Unit No: 82

Interval: 4266.00 ft (KB) To 4293.00 ft (KB) (TVD)

Reference Elevations: 3011.00 ft (KB)

Total Depth: 4293.00 ft (KB) (TVD)

3004.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 7.00 ft

Serial #: 8734 Outside

Press@RunDepth: 144.08 psig @ 4267.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.11.06

End Date: 2022.11.06

Last Calib.: 2022.11.06

Start Time: 03:00:01

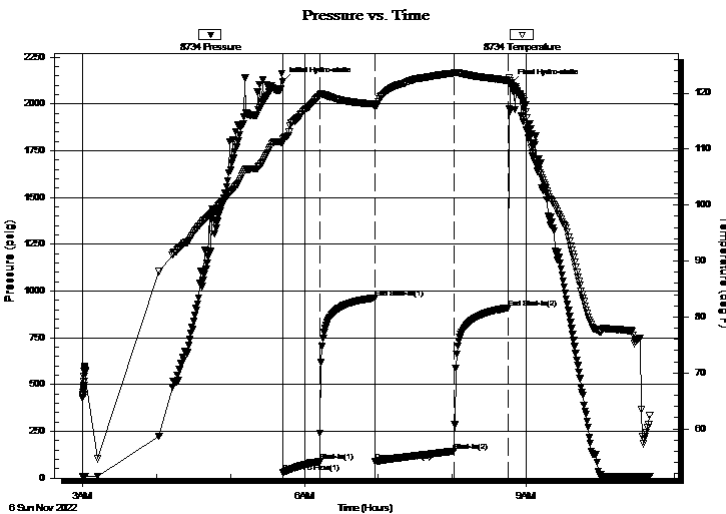
End Time: 10:40:10

Time On Btm: 2022.11.06 @ 05:42:30

Time Off Btm: 2022.11.06 @ 08:47:20

TEST COMMENT: 30-IF-Blow built to 5 1/2"
45-ISI-No return
60-FF-Blow built to 8 1/2"
45-FSI-No return

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2119.39 | 111.85 | Initial Hydro-static |
| 1 | 29.11 | 111.23 | Open To Flow (1) |
| 30 | 87.82 | 119.53 | Shut-In(1) |
| 75 | 963.38 | 118.03 | End Shut-In(1) |
| 75 | 89.47 | 117.56 | Open To Flow (2) |
| 139 | 144.08 | 123.53 | Shut-In(2) |
| 183 | 911.35 | 122.24 | End Shut-In(2) |
| 185 | 2109.38 | 121.88 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 250.00 | HMCW 29%M, 71%W | 2.42 |
| 0.00 | Oil spots in tool | 0.00 |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Quail Oil & Gas LLC
P.O. Box K
Garden City, KS 67846
ATTN: Dave Goldak

12-13S.-32W. Logan,KS

Weber # 1-12

Job Ticket: 69488 **DST#: 1**

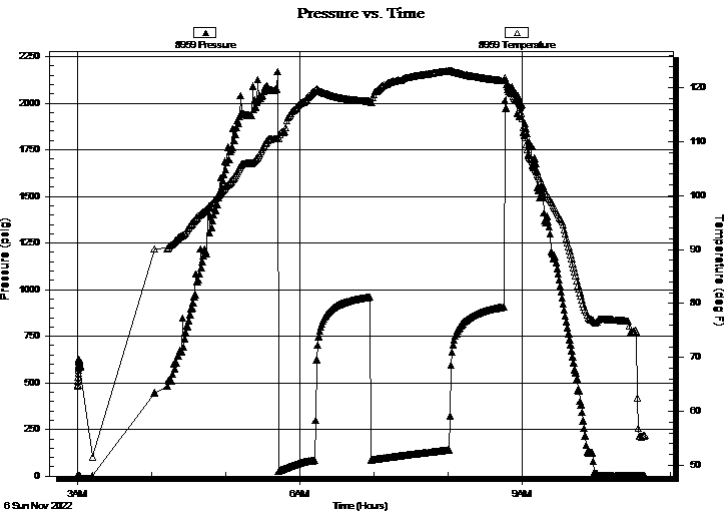
Test Start: 2022.11.06 @ 03:00:00

GENERAL INFORMATION:

Formation: **Swope**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 05:42:40 Tester: Martine Salinas
 Time Test Ended: 10:40:09 Unit No: 82
 Interval: **4266.00 ft (KB) To 4293.00 ft (KB) (TVD)** Reference Elevations: 3011.00 ft (KB)
 Total Depth: 4293.00 ft (KB) (TVD) 3004.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 7.00 ft

Serial #: 8959 Inside
 Press@RunDepth: psig @ 4267.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.11.06 End Date: 2022.11.06 Last Calib.: 2022.11.06
 Start Time: 03:00:01 End Time: 10:40:00 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30-IF-Blow built to 5 1/2"
 45-ISI-No return
 60-FF-Blow built to 8 1/2"
 45-FSI-No return



PRESSURE SUMMARY

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

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------------|--------------|
| 250.00 | HMCW 29%M, 71%W | 2.42 |
| 0.00 | Oil spots in tool | 0.00 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Quail Oil & Gas LLC

12-13S.-32W. Logan,KS

P.O. Box K
Garden City, KS 67846

Weber # 1-12

Job Ticket: 69488

DST#: 1

ATTN: Dave Goldak

Test Start: 2022.11.06 @ 03:00:00

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:

22000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------------|---------------|
| 250.00 | HMCW 29%M, 71%W | 2.423 |
| 0.00 | Oil spots in tool | 0.000 |

Total Length: 250.00 ft Total Volume: 2.423 bbl

Num Fluid Samples: 0

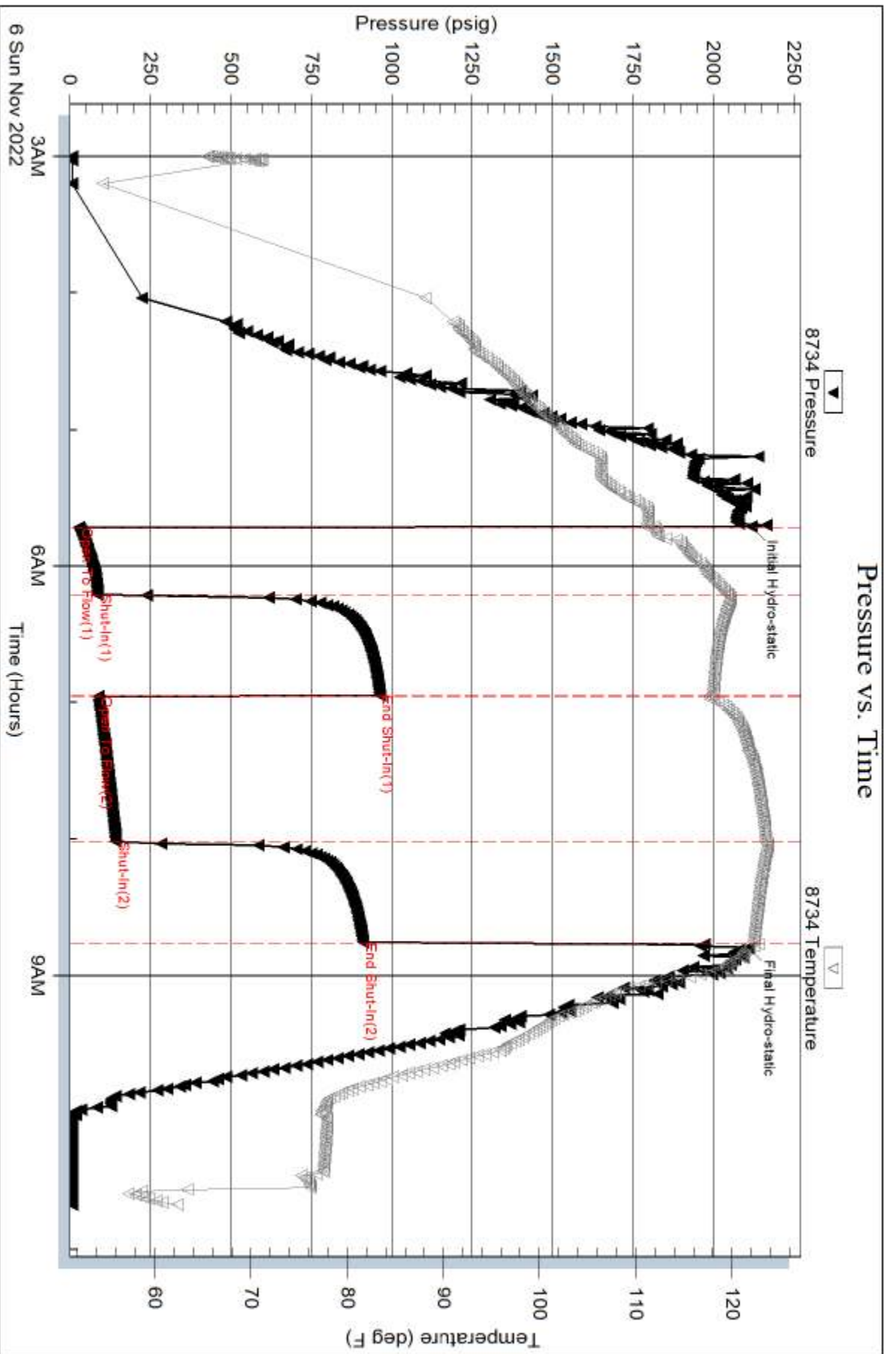
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.395 @ 55.5 degs = 22,000PPM



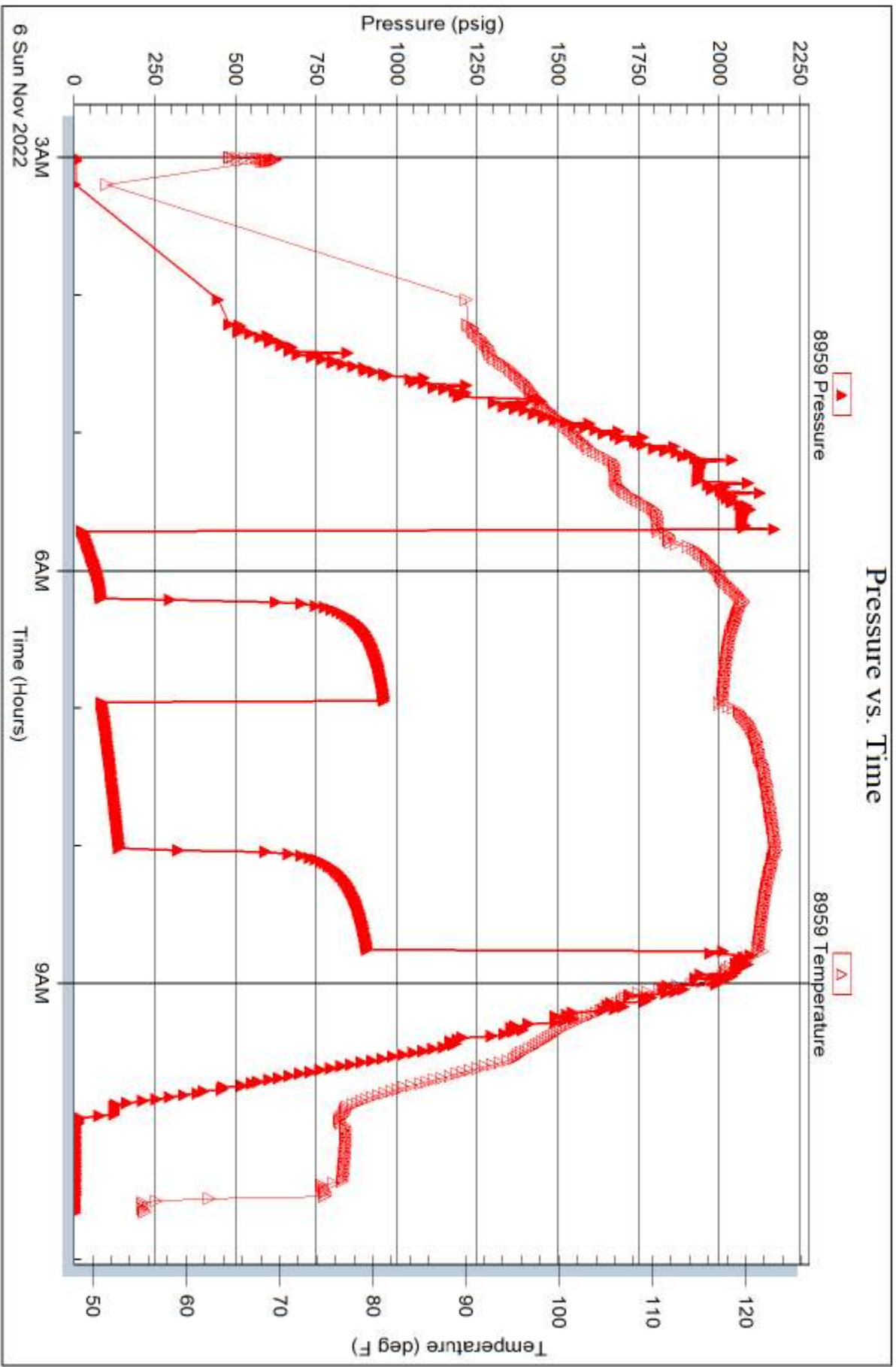
Serial #: 8959

Inside

Quail Oil & Gas LLC

Weber # 1-12

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69488

Printed: 2022.11.06 @ 13:37:38