

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> |
|----------------|-----------------|--------------------|------------------|--------------------|---|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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

OPERATOR

Company: TDI, INC
 Address: 1310 BISON ROAD
 HAYS, KANSAS 67601-9696

Contact Geologist: TOM DENNING
 Contact Phone Nbr: 785-628-2593
 Well Name: MUNSCH # 13
 Location:
 API: 15-051-27,013-00-00
 Pool: IN FIELD
 State: KANSAS

Field: SCHOENCHEN
 Country: USA



Scale 1:240 Imperial

Well Name: MUNSCH # 13
 Surface Location:
 Bottom Location: NE NW SW SE, SEC.9-T15S-R18W
 API: 15-051-27,013-00-00
 License Number: 4787
 Spud Date: 11/6/2021 Time: 3:15 PM
 Region: ELLIS COUNTY
 Drilling Completed: 11/11/2021 Time: 4:11 AM
 Surface Coordinates: 1087' FSL & 2032' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2030.00ft
 K.B. Elevation: 2040.00ft
 Logged Interval: 2900.00ft To: 3750.00ft
 Total Depth: 3750.00ft
 Formation: ARBUCKLE
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: 38.7579673
 Latitude: -99.3261347
 N/S Co-ord: 1087' FSL
 E/W Co-ord: 2032' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC.
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: GEOLOGIST Name: HERB DEINES

CONTRACTOR

Contractor: SOUTHWIND DRILLING, INC.
 Rig #: 8
 Rig Type: MUD ROTARY
 Spud Date: 11/6/2021 Time: 3:15 PM
 TD Date: 11/11/2021 Time: 4:11 AM

ELEVATIONS

K.B. Elevation: 2040.00ft
K.B. to Ground: 10.00ft

Ground Elevation: 2030.00ft

NOTES

RECOMMENDATION TO RUN PRODUCTION CASING BASED ON FAVORABLE ARBUCKLE STRUCTURE AND LOG ANALYSIS.

OPEN HOLE LOGGING BY MIDWEST WIRELINE: DUAL INDUCTION LOG, DUAL COMPENSATED POROSITY LOG, MICRORESISTIVITY LOG.

NO DRILL STEM TESTS WERE RAN ON THIS WELL.

FORMATION TOPS COMPARSION

| | MUNSCH # 13 NE NW SW SE SEC.9-15S-18W KB 2040' | MUNSCH # 12 NE NE SW SE SEC. 9-15S-18W KB 2043' | MUNSCH # 4 N2 SW SW SE SEC.9-15S-18W KB 2037' |
|----------------|---|--|--|
| | LOG TOPS | | |
| Anhydrite-top | 1205 +835 | +834 | +841 |
| Anhydrite-base | 1243 +797 | +799 | +805 |
| Topeka | 3004 - 964 | - 957 | - 949 |
| Heebner Shale | 3277-1237 | -1230 | -1225 |
| Toronto | 3296-1255 | -1248 | -1245 |
| LKC | 3324-1284 | -1277 | -1272 |
| BKC | 3547-1507 | -1500 | -1497 |
| Arbuckle | 3614-1574 | -1555 | -1569 |
| RTD | 3750-1710 | -1707 | -1731 |

11-06-21 Spud 3:15 PM. Set 8 5/8" surface casing to 223'

11-07-21 226', cement surface pipe w 150 sks 80/20 pos 3%CC 2%gel, plug down 4:30 AM, slope 1/2 degree @226'. WOC 8 hours drill plug at 12:30 PM with PDC bit

11-08-21 1940', drilling, bit trip to run button bit, displaced 2641-2685










11-09-21 2900', drilling,

11-10-21 3380', drilling,

11-11-21 3750', RTD 3750' @4:11AM, short trip 25 stands, CCH, TOWB, logs, TIWB, LDDP, run production casing and cement

| |
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| |

ROCK TYPES

| | | | | |
|---|---|--|---|--|
|  Chtcongl |  Lmst fw<7 |  Lscongl |  shale, gry |  shale, red |
|  Dolprim |  Lmst fw7> |  shale, grn |  Carbon Sh | |

ACCESSORIES

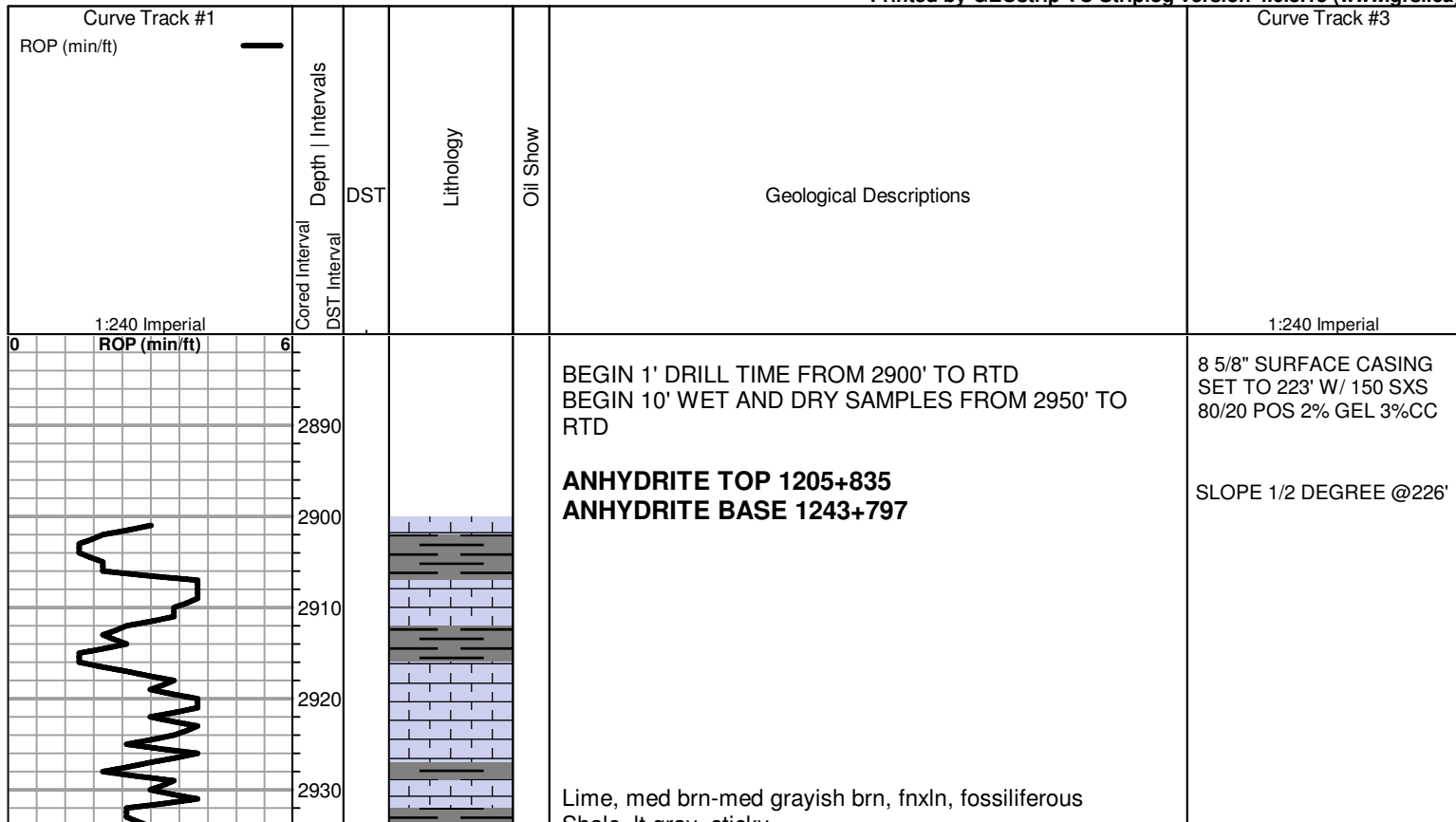
MINERAL

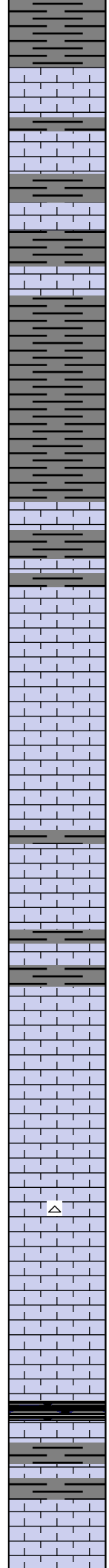
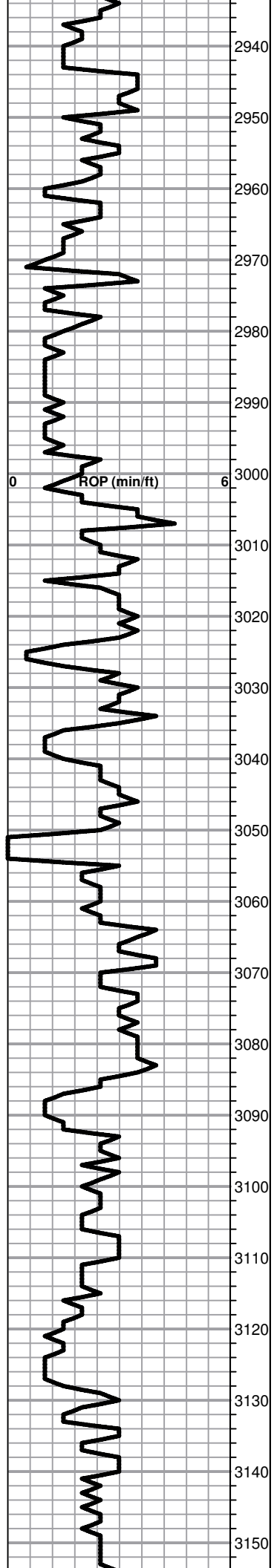
- ∩ Glauconite
- P Pyrite
- △ Chert White

FOSSIL

- ⚙ Oomoldic

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)





Shale, lt gray, sticky

Lime, lt-med brn, fnxln

Lime, lt-med brn, fnxln

Shale, lt gray, sticky

Shale, lt-med gray, soft blocky to soft mud

TOPEKA 3004-964

Lime, tan-lt brn, fnxln-granular in part, slight bed chalk

Shale, lt gray, sticky

Lime, lt-med brn-gray, fnxln

Lime, white, soft chalky with some sticky clumping, NS

Lime, lt brn-lt grayish brn, fnxln

Lime, lt brn-lt grayish brn, fnxln with bedded soft chalk, NS

Lime, lt brn, fn-vfxln, bedded chalk with some sticky clumps

Lime, lt-med brn, fn-vfxln slightly fossiliferous

Lime, lt-med brn, fn-vfxln

Lime, lt-med brn, fn-vfxln

Lime, lt brn, fn-vfxln, bedded chalk, NS

Lime, lt-med brn, fn-vfxln

Lime, lt brn, fnxln-granular in part, bedded chalk with sticky clumping in part

Chert, lt gray, sharp

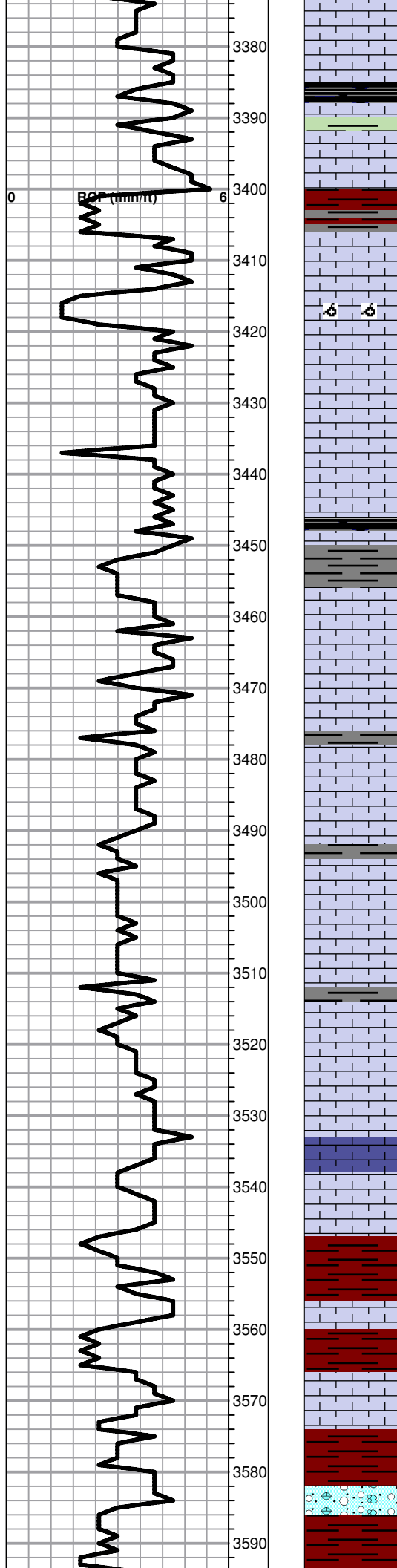
Lime, lt brn, soft granular, slightly fossiliferous, bed chalk

Shale, black carbonaceous, blocky, fissile

Lime, crm-lt brn, fn-micro xln, clean, lithographic

Lime, lt brn, fn-micro xln

CORRECT TO BOARD



Lime, crm, fn-vfxln, chalky

Shale, black carbonaceous, blocky
Lime, lt gray, fn-vfxln

Lime, lt brn, fnxln, fossiliferous but cemented, NS or odor

Shale, red-gray, sticky

Lime, lt-med brn, fn-vfxln, fossiliferous

Lime, crm fnxln-oolmoldic, barren, with bedded chalk

Lime, lt gray, micro xln, hard bedded chalk

Lime, crm, fn-micro xln with bedded chalk

Shale, black carbonaceous, blocky
Lime, med-dark gray, mottled

Lime, crm, fn-micro xln, bedded chalk, NS

Lime, crm-lt brn, fn-micro xln

Lime, lt brn, micro xln, hard bedded chalk, NS

Lime, crm, fn-micro xln, scattered spotty stain, NFO, very lt odor

Lime, gray, fn-vfxln, shaley and trashy section

Lime, white-crm, fn-vfxln, hard bedded chalk

Shale, grayish green, fossiliferous, calcareous

Lime, white-crm fn-vfxln

Lime, crm, fn-micro xln, hard bedded chalk

Lime, crm, fn-micro xln, hard bedded chalk

BKC 3547-1507

Shale, red, soft with red wash

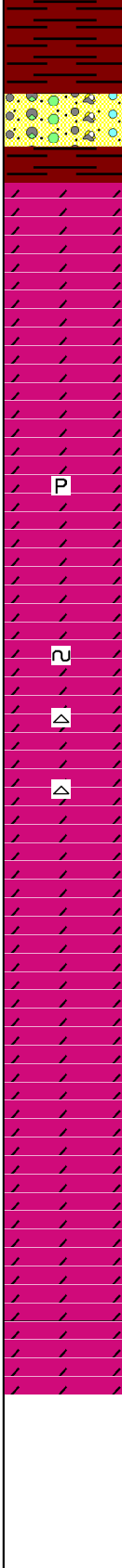
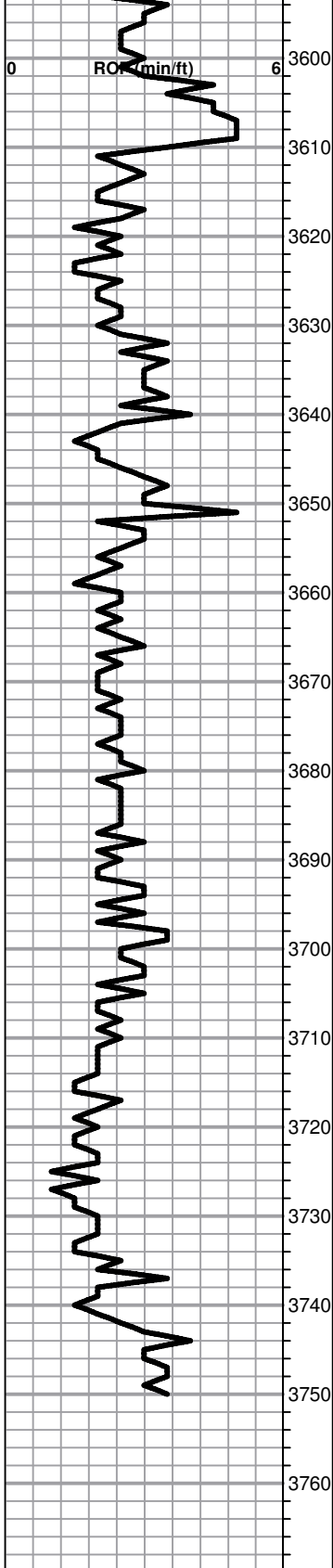
Lime, crm-white, fnxln, bed chalk

Shale, red soft with red wash

Lime, white-crm, fnxln

Shale, red soft with red wash

Clastic limestone rubble with red shale staining



Shale, red-brn, soft blocky-soft mud, red wash

Clastic mix of chert, dolomitic lime and rubble

ARBUCKLE 3614-1574

- Dolomite, lt brn, fnxln-granular, sucrosic in part, good odor with saturated staining and free oil.
- Dolomite, lt brn-ivory, fnxln with fine to coarse grain sucrosic
- Dolomite, lt brn-ivory, fnxln-granular, strong sulfur odor

Dolomite, lt-med brn, granular with fine to coarse sucrosic, strong odor with scattered saturated staining

Dolomite, crm-ivory, fn-vfxln, chalky, pyrite inclusions in part

Dolomite, white-ivory, fnxln-granular

Dolomite, white-ivory, fnxln-granular, white chalk wash, scattered specs of glauconite

Dolomite, white-ivory, fn-micro xln, hard cherty appearance

Dolomite, ivory, fn-micro xln, lt chalk wash

Dolomite, white-ivory-tan, fnxln with silica inclusions

Dolomite, white-salmon, fnxln-soft granular with silica inclusions, very dolomitic

Dolomite, ivroy-salmon, fnxln-granular

Dolomite, crm-ivory, fnxln-granular, white wash

Dolomite, buff-crm, fnxln-granular with white chalk wash

RTD 3750-1710 LTD 3752-1712

SET 5 1/2" PRODUCTION CASING TO 3747'.
 BOTTOM STAGE CEMENT W/150 SXS EA2,
 TOP STAGE W/ 130 SXS SMD, 30 SXS RATHOLE,
 20 SXS MOUSEHOLE.
 PLUG DOWN 3:15 AM 11-12-21
 SWIFT TICKET #34084

SLOPE 0 DRGREES @ 3750'

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 0447
 LOCATION Victoria
 FOREMAN Tom Williams

FIELD TICKET & TREATMENT REPORT CEMENT

| DATE | CUSTOMER # | WELL NAME & NUMBER | SECTION | TOWNSHIP | RANGE | COUNTY |
|----------------------------------|------------|--------------------|---------|----------|-------|--------|
| 11-7-21 | 4787 | Munsch 13 | 9 | 15S | 18 W | Ellis |
| CUSTOMER TPI Inc | | | TRUCK # | | | |
| MAILING ADDRESS 1310 Bison Rd | | | DRIVER | | | |
| CITY Hays | | | TRUCK # | | | |
| STATE KS | | | DRIVER | | | |
| ZIP CODE 67601 | | | TRUCK # | | | |
| | | | DRIVER | | | |

JOB TYPE 5000 HOLE SIZE 12 1/4" HOLE DEPTH 226' CASING SIZE & WEIGHT 5 5/8"
 CASING DEPTH 226' DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.8 SLURRY VOL 1.32 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT 13 Bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting + rig up on Southwind Dril. Circulate mud.
Hooked up + pump 150 sx 50/20. Displaced 13 Bbl + shut in
Cement did circulate

USED our 5 5/8" head Thanks Tom + Preston

| ACCOUNT CODE | QUANTITY or UNITS | DESCRIPTION of SERVICES or PRODUCT | UNIT PRICE | TOTAL |
|--------------|--------------------|------------------------------------|----------------------|-----------------------|
| PL002 | 1 | PUMP CHARGE | \$1150 ⁰⁰ | \$1150 ⁰⁰ |
| MD01 | 20 | MILEAGE | \$6 ⁵⁰ | \$130 ⁰⁰ |
| MD02 | 7.1 hrs | Tan Mileage delivery | \$600 ⁰⁰ | \$600 ⁰⁰ |
| CB040 | 150 sx | 50/20 3% cc 29a gel | \$21 ²⁵ | \$3,187 ⁵⁰ |
| | | | sub total | \$5,067 ⁵⁰ |
| | | | less 25% disc. | \$1,266 ⁸⁸ |
| | | | sub total | \$3,800 ⁶² |
| | | | SALES TAX | \$ 167. |
| | | | ESTIMATED TOTAL | \$ 3967. |

AUTHORIZATION Denny Robert 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.

JOB LOG

SWIFT Services, Inc.

DATE 11/11/21 PAGE NO.

CUSTOMER TDI WELL NO. # 13 LEASE MUNSCH JOB TYPE 2 STAGE L.S. TICKET NO. 34084

| CHART NO. | TIME | RATE (BPM) | VOLUME (BBL) (GAL) | PUMPS | | PRESSURE (PSI) | | DESCRIPTION OF OPERATION AND MATERIALS |
|-----------|------|------------|--------------------|-------|---|----------------|--------|--|
| | | | | T | C | TUBING | CASING | |
| | 2030 | | | | | | | ON LOCATION |
| | | | | | | | | 5 1/2 x 14 # |
| | | | | | | | | RTO |
| | | | | | | | | TOTAL PIPE - 3747.75 |
| | | | | | | | | SHOE - 42.42 |
| | | | | | | | | D.V. - 59 @ 1239.98 |
| | | | | | | | | CENTRALIZERS - 1,3,4,6,8,10,12,14,16, 58 |
| | | | | | | | | BASKET - 5, 59 |
| | 2245 | | | | | | | START RUNNING CSG |
| | 1240 | | | | | | | BREAK CIRC ON BTM |
| | | 5.5 | 12 | | | 300 | | PUMP MUDFLUSH - 500 GAL |
| | | 5.5 | 20 | | | 300 | | PUMP KILL SPACER |
| | | 5 | 36 | | | 300 | | PUMP CMT - 150 SX EA-2 @ 15.5 |
| | | | | | | | | DROP PLUG - WASH P&L |
| | 215 | 7 | 0 | | | | | START DISP |
| | 230 | 5.5 | 90.4 | | | 900 | | LAND PLUG @ 1500 # |
| | | | | | | | | DROP THE BOMB |
| | | 2.5 | 8 | | | 0 | | PLUG RAT HOLE - 30 SX CMT |
| | | 2.5 | 4 | | | 0 | | PLUG MOUSE HOLE - 20 SX |
| | 245 | | | | | 900 | | OPEN D.V. TOOL |
| | | 6.5 | 0 | | | 500 | | START CMT - 110 SX @ 11.2 |
| | | 6.5 | 60 | | | 500 | | RAISE WAT TO 14" FOR 20 SX |
| | | 6.5 | 65 | | | 300 | | END CMT |
| | | | | | | | | DROP PLUG |
| | 300 | 6.5 | 0 | | | 200 | | START DISP |
| | 310 | 6.5 | 30.25 | | | 700 | | LAND PLUG @ 1500 # |
| | | | | | | | | RELEASE PSI - DRY |
| | | | | | | | | CIRCULATED 50 SX CMT |
| | | | | | | | | JOB COMPLETE |
| | | | | | | | | THANKS |
| | | | | | | | | DAVID, ROGER, JOE & ISAAC |