



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



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

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

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

| | |
|---|---|
| Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <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 Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> 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 | | | | |
| | | | | |

| 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 Bbbs. | Gas Mcf | Water Bbbs. | 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: _____ _____ |
|---|--|--|

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

No. 8000

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

| | | | | | | | |
|----------|------|------|-------|--------------------------------------|-------|-------------|------------|
| Date | Sec. | Twp. | Range | County | State | On Location | Finish |
| 8-7-13 | 34 | 6 | 22 | Cochran | KS | | 12:30 P.M. |
| Location | | | | Bogue 1w340R1 to 409R1 Tm: 20W Pinto | | | |

| | | | |
|---------------------|------------|--|--|
| Lease | Well No. | Owner | |
| A. Wecestor | 1 | 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. | |
| Contractor | Type Job | Charge To | |
| W. H. Knight | Surface | Worth Exploration | |
| Hole Size | T.D. | Street | |
| 12 1/4 | 223 | | |
| Csg. | Depth | City | |
| 8 5/8 | 218 | State | |
| Tbg. Size | Depth | The above was done to satisfaction and supervision of owner agent or contractor. | |
| | | Cement Amount Ordered 150 cu m 3 1/2 CC 24/6/12 | |
| Cement Left in Csg. | Shoe Joint | | |
| 15' | | | |
| Meas Line | Displace | | |
| | 13 BC | | |

EQUIPMENT

Common 150

| | | | | |
|---------|-----|----------|--------|-----------|
| Pumptrk | No. | Cementor | Helper | Poz. Mix |
| 15 | | David | | |
| Bulktrk | No. | Driver | | Gel 3 |
| | | David | | |
| Bulktrk | No. | Driver | | Calcium 5 |
| 8 | | David | | |

JOB SERVICES & REMARKS

Hulls

Salt

Flowseal

Kol-Seal

Mud CLR 48

CFL-117 or CD110 CAF 38

Sand

Handling 158

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer 8 5/8 surge

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge Surface

Mileage 51

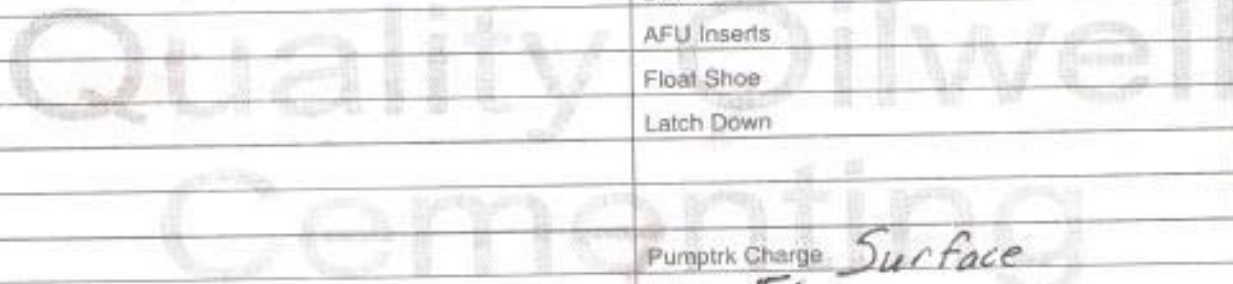
Tax

Discount

Total Charge

X Signature

Terry Austin



Cement Circulated!

*8 5/8 on bottom Est Circulation mix
150 SK & Displace*

OPERATOR

Company: ANDY WERTH dba WERTH EXPLORATION TRUST
 Address: 1308 SCHWALLER AVENUE
 HAYS, KANSAS 67601

Contact Geologist: ANDY WERTH
 Contact Phone Nbr: 785-625-4968
 Well Name: A. WORCESTER #1
 Location: NW SW NE SE SEC.34 T6S R22W API: 15-065-23960-00-00
 Pool: LAST HOPE NORTHEAST
 State: KANSAS Country: USA

Scale 1:240 Imperial

Well Name: A. WORCESTER #1
 Surface Location: NW SW NE SE SEC.34 T6S R22W
 Bottom Location:
 API: 15-065-23960-00-00
 License Number: 34743
 Spud Date: 8/6/2013 Time: 5:45 PM
 Region: GRAHAM COUNTY
 Drilling Completed: 8/11/2013 Time: 7:10 PM
 Surface Coordinates: 1966 FSL & 1023 FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2244.00ft
 K.B. Elevation: 2249.00ft
 Logged Interval: 3050.00ft To: 3870.00ft
 Total Depth: 3870.00ft
 Formation: LANSING KANSAS CITY
 Drilling Fluid Type: CHEMICAL/ FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 1966 FSL
 E/W Co-ord: 1023 FEL

LOGGED BY

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

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: STEVE REED/ HERB DEINES

CONTRACTOR

Contractor: WHITE KNIGHT DRILLING LLC
 Rig #: 1
 Rig Type: MUD ROTARY
 Spud Date: 8/6/2013 Time: 5:45 PM
 TD Date: 8/11/2013 Time: 7:10 PM
 Rig Release: 8/12/2013 Time: 5:00 PM

ELEVATIONS

K.B. Elevation: 2249.00ft Ground Elevation: 2244.00ft
 K.B. to Ground: 5.00ft

NOTES

RECOMMENDATION TO PLUG WELL BASED ON LACK OF SIGNIFICANT OIL SHOWS AND LACK OF DEVELOPMENT OF PRIMARY PRODUCTION ZONES CONFIRMED BY GEOPHYSICAL WELL LOGS.

GEOPHYSICAL WELL LOGGING PERFORMED BY NABORS COMPLETIONS AND PRODUCTION SERVICES CO:
 RADIATION GUARD LOG AND MICRO RESISITIVITY LOG

NO DRILL STEM TESTS WERE PERFORMED.

FORMATION TOPS SUMMARY AND CHRONOLOGY OF DAILY ACTIVITY

| | WELL NAME | | COMP. WELL | COMP. WELL | COMP. WELL | COMP. WELL |
|------------------|-----------------|-------------|------------|------------|-----------------------|-----------------------|
| | A. WORCESTER #1 | | DAVIS #2 | DAVIS #1 | WORCESTER #1 SW NW SE | WORCESTER #1 NE NE SE |
| FORMATION | SAMPLE | LOG TOPS | LOG TOPS | LOG TOPS | LOG TOPS | LOG TOPS |
| ANHYDRITE | 1895 + 354 | 1895 + 354 | +353 | +347 | +353 | +358 |
| B-ANHYDRITE | 1927 + 322 | 1927 + 322 | +321 | +317 | +322 | |
| TOPEKA | 3250 - 1001 | 3248 - 999 | -999 | -1004 | -1011 | -992 |
| HEEBNER SHALE | 3452 - 1203 | 3449 - 1200 | -1200 | -1206 | -1211 | -1205 |
| TORONTO | 3478 - 1229 | 3477 - 1228 | -1226 | -1231 | -1237 | -1231 |
| LKC | 3494 - 1245 | 3494 - 1245 | -1242 | -1247 | -1255 | -1250 |
| MUNCIE CREEK SH. | 3602 - 1353 | 3598 - 1349 | -1350 | | -1360 | |
| BKC | 3690 - 1441 | 3681 - 1432 | -1437 | -1439 | -1443 | -1437 |
| ARBUCKLE | 3826 - 1577 | 3810 - 1561 | -1573 | -1585 | | -1591 |

| | | | | | | |
|-----------|-------------|-------------|-------|-------|-------|-------|
| RTD & LTD | 3870 - 1621 | 3870 - 1621 | -1629 | -1634 | -1558 | -1663 |
|-----------|-------------|-------------|-------|-------|-------|-------|

SUMMARY OF DAILY ACTIVITY

8-6-13 RU, spud @ 5:45 pm, drilling, set 8 5/8" surface pipe to 223 w/150 sxs common 2% gel, 3%CC, plug down, WOC 8 hrs

8-7-13 223', drilling

8-8-13 1173', drilling

8-9-13 2238' drilling, repair hole in pipe

8-10-13 2916' drilling, repair rotary table

8-11-13 3500' drilling, CFS @ 3510', CFS @ 3660' reached 3870' RTD at 7:10pm, Short trip.

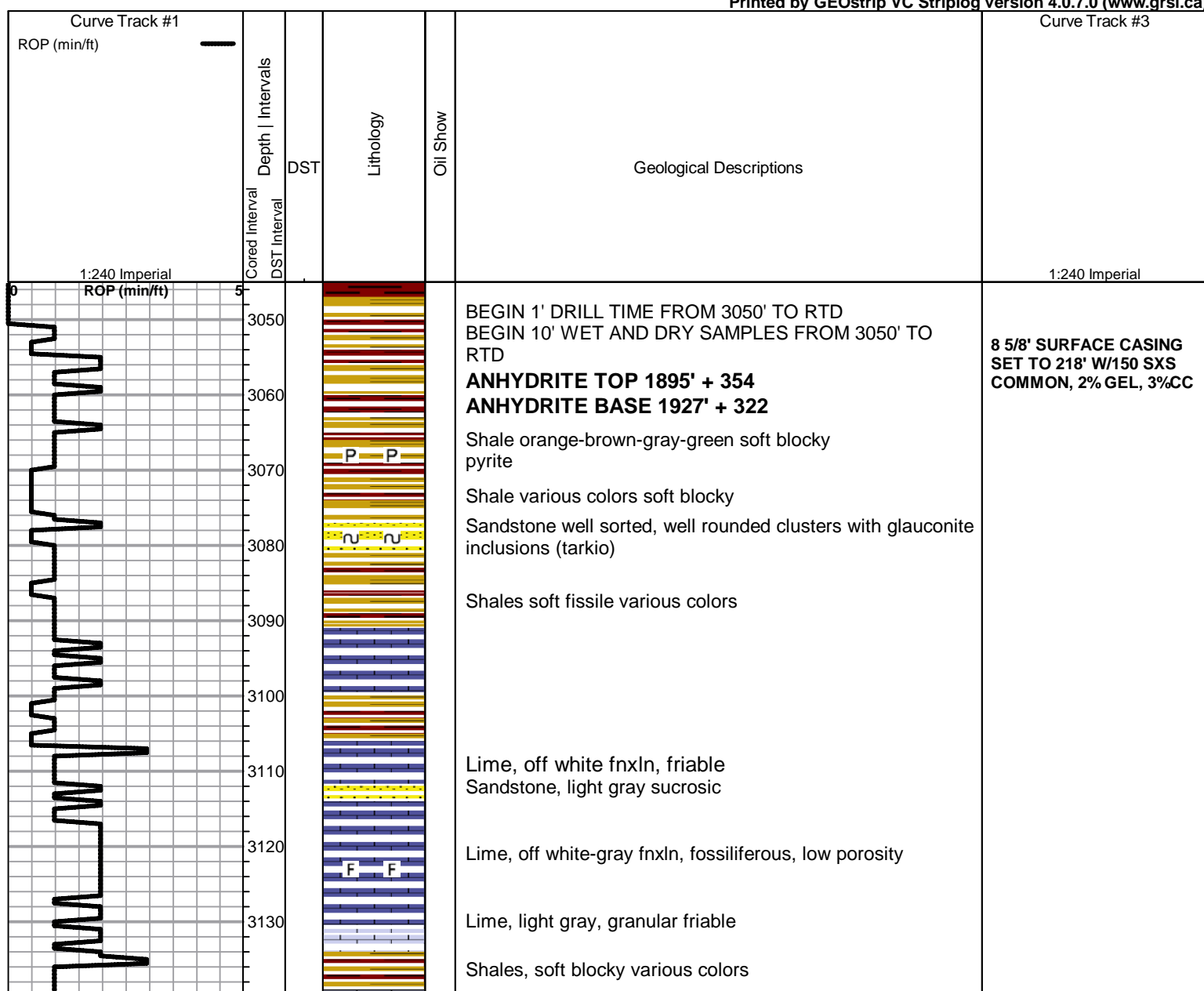
8-12-13 3870', Logging , P&A, rig down.

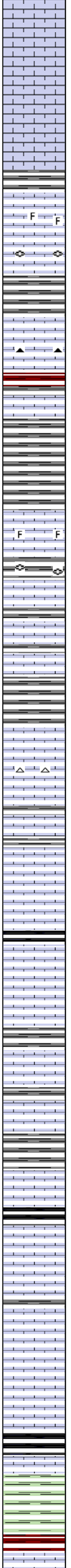
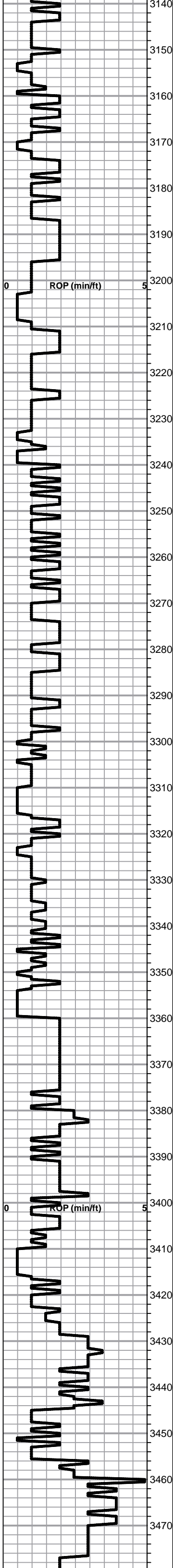
| ROCK TYPES | | | | | |
|------------|----------|--|-----------|--|------------|
| | Cht | | Dol Lime | | shale, grn |
| | Cht vari | | Lmst fw<7 | | shale, gry |
| | Chtcongl | | Lmst fw7> | | Carbon Sh |
| | Dolprim | | Lscongl | | shale, red |
| | | | | | Shcol |
| | | | | | Ss |
| | | | | | Cht gy |

| ACCESSORIES | |
|----------------|-----------------|
| MINERAL | FOSSIL |
| ▲ Chert, dark | F Fossils < 20% |
| ∩ Glauconite | ⊕ Fossilinid |
| P Pyrite | |
| △ Chert White | |

| OTHER SYMBOLS |
|---------------|
| DST |
| DST Int |
| DST alt |

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Lime, cream - off white fnxn

Lime, cream-light gray fnxn

Lime, light gray fnxn, brittle

Shale, light gray soft and blocky

Lime, medium gray, fossiliferous, dense, brittle

Lime, tan-light brown-gray fnxn, fusulinids

Shale, light-medium gray soft blocky

Lime, tan- light brown medium xln- granular, friable
light brown chert

Shale, medium brown- gray soft blocky

Shale, medium gray soft blocky

TOPEKA SAMPLE 3250 (-1001) LOG 3248 (-999)

Lime, off white-grayish, granular, fossiliferous, very friable

Shale, gray-brown soft blocky, fusulinids

Lime, gray/black speckled fn-medxn friable

Lime, light gray slightly oolitic fine intercrystalline porosity

Shale, gray-green soft blocky
Shale, medium gray soft sticky

Lime, light gray fnxn, dense
white chert
bedded chalk in part

Lime, cream fnxn, gray wash
Shale, soft sticky light gray

Lime, cream granular, chalky in part

Shale, black carbonaceous

Lime, cream-tan granular friable

Lime, cream medium xln soft chalky in part

Line, cream-light brown fn-medxn soft

Shale, brown fissile

Lime, cream-off white oolitic, not well developed

Shale, black carbonaceous

Lime, cream-light gray oolitic in part, NSFO, no odor

Shale, gray soft and sticky

Lime, cream-off white fnxn dense

HEEBNER SAMPLES 3452 (-1203) LOG 3449 (-1200)

Shale, black carbonaceous

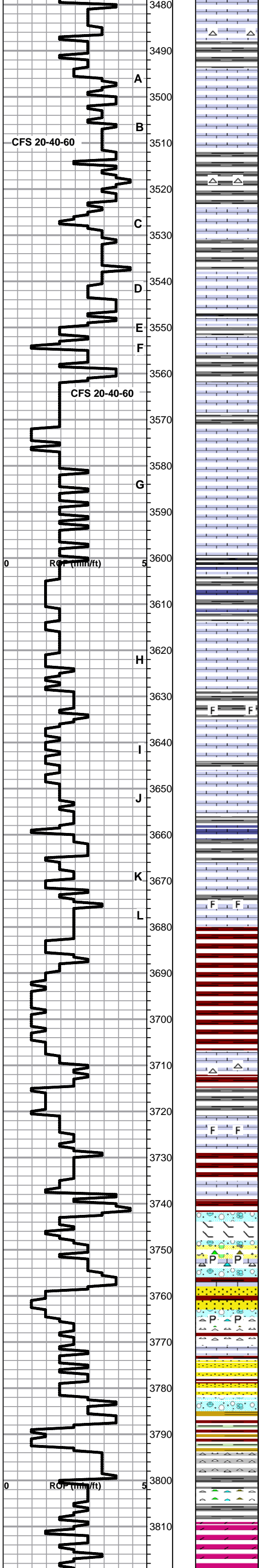
Shale, dove gray/green soft blocky

Shale, reddish brown soft blocky

TORONTO SAMPLES 3478 (-1229) LOG 3477 (-1228)

Rock sample quality very poor. Heavy shale carry over and carbonates are ground fine. Yield Point is 8.

Note: rop spike at 3460 was caused by change in weight on the bit.



Lime, cream-bright white fnxn dense white chert

LKC SAMPLES 3494 (-1245) LOG 3494 (-1245)

- Lime, cream oolitic low porosity dense
- Lime, cream-light brown fnxn
- Lime, cream fnxn, white chert
- Lime, cream-light brown, slight odor pinpoint porosity, slight scattered staining, NSFO
- Lime, cream-light brown, slight staining, pinpoint porosity, scattered stain, sfo on crush in one chip.
- Lime, cream-light brown, 1 chip saturated stain, slight odor, sfo, fossiliferous vuggy porosity in part, fluorescence.

- Lime, cream-light brown fnxn, dense
- Lime, cream fnxn, some with slight pinpoint porosity, no staining
- Lime, cream fnxn clean dense

MUNCIE CREEK SPLS 3602 (-1353) LOG 3598 (-1353)

- Shale, black/gray fissile
- Lime, cream-tan fn-medxn friable
- Lime, cream- off white fnxn dense
- Shale, brown-gray soft blocky fossil inclusions
- Lime, cream-light brown slight scattered stain, pinpoint porosity, NSFO, no odor
- Lime, cream-tan slightly oolitic, slight vuggy porosity, slight staining, NSFO, no odor

BKC SAMPLES 3690 (-1441) LOG 3681 (-1432)

- Shale, brown reddish soft blocky
- Lime, cream- off white fn-vfxn dense, white chert
- Lime, cream-tan fnxn, slightly oolitic, NSFO, fossiliferous
- Lime, cream granular clean, NSFO
- Reworked material, clastics, maroon shale, pyrite, various cherts
- Sandstone, clusters quartz grains, calcite cement
- Clastic Lime, tan vf-fnxn, pyrite inclusions chert hard white
- Sandstone, medium brown clusters, well sorted, well rounded
- Shales, various colors purple, maroon, green, gray, soft blocky
- Chert, gray
- Cherts various colors
- Shale, gray soft blocky

ARBUCKLE SAMPLES 3826 (-1577) LOG 3810 (-1577)

Dolomite, cream fnxn

Rock samples continued to decline in quality throughout the well, various things were changed to correct this, with no success. Samples loaded with maroon and gray soft shale, carbonate sizes were very small. correlating samples proved to be very difficult.

