



KANSAS CORPORATION COMMISSION 1097058
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

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

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

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

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

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

API No. 15 - _____

Spot Description: _____

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

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

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

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

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



1097058

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 |
| _____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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 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 | Black Diamond Oil, Inc. |
| Well Name | Sansom 6 |
| Doc ID | 1097058 |

All Electric Logs Run

| |
|----------------------|
| |
| Neutron/Density |
| Temp |
| Micro |
| Gamma Ray Sonic Bond |
| Dual Induction |

API # 15-137-20596-00-00

Operator: Black Diamond Oil, Inc. Well Name & No: Sansom #6
 Location: 670 FNL & 600 FWL, Section 27-4s-22w County: Norton State: Kansas
 Rig No.: 6 Contractor: WW Drilling, LLC Tool Pusher: John Mayers 785-259-4392
 Drill Collars: 14 Size: 6 1/4 x 2 1/4 Rig Phone: 785-259-6941
 Make Pump: National K-380 Liner & Stroke: 6 x 14 Spud 2/8/2012 @ 3:15 PM
 Approx. TD: 3700 Elevation: 2264 K.B. 2269 KB Hole Complete: 2/11/2012 @ 11:15 PM
 Mud Co.: Andy's Mud Mud Engineer: Kirk Werth Water Well

| Date | 02/08/12 | 02/09/12 | 02/10/12 | 02/11/12 | 02/12/12 | 02/13/12 | | | | |
|--------------|----------|----------|----------|---------------|------------|----------|--|--|--|--|
| Days | 1-spud | 2-drlg | 3-drlg | 4-drlg | 5-log | 6-done | | | | |
| Depth | | 523 | 2593 | 3459 | 3720 | | | | | |
| Ft. Cut | | 523 | 2070 | 866 | 261 | | | | | |
| D.T. | | 8-woc | | | 1/4-DW air | | | | | |
| D.T. | | | | | | | | | | |
| C.T. | | | | 1/2 Lost circ | 11.25 | 15.75 | | | | |
| Bit Wt. | all | 25,000 | 35000 | 38000 | 38000 | | | | | |
| RPM | 100 | 90 | 85 | 85 | 85 | | | | | |
| Pressure | 450 | 500 | 800 | 800 | 850 | | | | | |
| SPM | 60 | 60 | 60 | 60 | 60 | | | | | |
| Mud Cost | | | | | 7863 | | | | | |
| Mud Wt. | | 8.8 | 9.1 | 8.9 | 9.2 | | | | | |
| Viscosity | | 28 | 29 | 60 | 60 | | | | | |
| Water Loss | | | | | 7.6 | | | | | |
| Chlorides | | | | | 800 | | | | | |
| L.C.M. | | | | | 2.5 # | | | | | |
| Dev. Sur | | 218 1/2° | | | 3720-1° | | | | | |
| Dev. Sur | | | | | | | | | | |
| Fuel | 2106 | 4050 | 3564 | 3078 | 2754 | 2592 | | | | |
| Water-Pit | | full | 3' | full | 3.5 | | | | | |
| ACC Bit Hrs. | | 3 | 25.5 | 47.5 | 59.25 | | | | | |
| Formation | sd-sh | sd-sh | sd-sh | sh-lm | sh-lm | | | | | |
| Weather | Lt. snow | cloudy | cloudy | cloudy | pty cldy | | | | | |

| No. | Size | Type | Out | Ft. | Hrs. | Cum Hrs. | Bit Cond | Serial # | Tops |
|-----|--------|-----------|------|------|-------|----------|----------|----------|--------------|
| 1 | 12 1/4 | Smith | 218 | 218 | 2.25 | 2.25 | RR | PD 6528 | |
| 2 | 7 7/8 | Sm - F-27 | 3720 | 3502 | 59.25 | 61.5 | New | PX 0138 | ROP 60.5 FPH |
| 3 | | | | | | | | | |
| 4 | | | | | | | | | |

| DEPTH | SIZE | SACKS | CEMENT MATERIAL | PLUG DOWN | DRILLED OUT | REMARKS |
|-------|-------|--------|--------------------------|-----------|-------------|---------------------------|
| 218 | 8 5/8 | 150 | Common, 3% cc, 2% gel | 8:00 PM | 4:00 AM | Allied Cem. Did circulate |
| 3720 | 4 1/2 | 150-30 | Common, bottom - rathole | 8:45 PM | 2/12/2012 | Allied Cem. |

| NO | INTERVAL | OPEN | SHUT | OPEN | SHUT | RECOVERY |
|----|----------|------|------|------|------|----------|
| 1 | | | | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | | | | | | |
| 5 | | | | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | | | |

Surface Casing Furnished by: Milden delivered 5 joints 23# 8 5/8 casing tally 211.26' set @ 217'

Remarks: Strap & weld surface by WW, Anhydrite 1909'-1939', Lost circulation @ 2624 (80 bbls), Displace @ 2994 (560 bbls), Short trip @ 3720 39 stds (3 Hrs), Log by Superior LTD 3720' (3.75 Hrs), Ran 97 joints 10.5# 4 1/2 casing, set @ 3718.5' Port collar @ 1896. Release rig @ 10:45 PM on 2/12/2012.

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 626

Cell 785-324-1041

| | | | | | | | | | | | | | | | |
|----------------------|-------------------|------|------------|------|------------|----------|--|--|--------|-------|----|-------------|--|--------|--------|
| Date | 2-12-12 | Sec. | 27 | Twp. | 4 | Range | 22 | County | Norton | State | KS | On Location | | Finish | 8:45pm |
| Lease | Sansom | | Well No. | 6 | | Location | | Elmond E RLS 21 | | | | | | | |
| Contractor | JWW#6 | | | | | | | Owner | | | | | | | |
| Type Job | Production String | | | | | | | 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. | | | | | | | |
| Hole Size | 7 7/8 | | T.D. | | 3720 | | Charge To | | | | | | | | |
| Csg. | 4 1/2 10.50ft | | Depth | | 3719 | | Black Diamond | | | | | | | | |
| Tbg. Size | | | Depth | | | | Street | | | | | | | | |
| Tool Port Collar #48 | | | Depth | | 1896 | | City | | | | | | | | |
| Cement Left in Csg. | 39.81 | | Shoe Joint | | 39.81 | | State | | | | | | | | |
| Meas Line | | | Displace | | 58 1/2 BCL | | The above was done to satisfaction and supervision of owner agent or contractor. | | | | | | | | |
| | | | | | | | | Cement Amount Ordered 150 com 100% Salt | | | | | | | |

EQUIPMENT

| | | | | | | |
|---------|----|-----|---------------|-------|----------|-----|
| Pumptrk | 15 | No. | Cement Helper | Craig | Common | 150 |
| Bulktrk | | No. | Driver | Paul | Poz. Mix | |
| Bulktrk | 14 | No. | Driver | Brian | Gel. | |

JOB SERVICES & REMARKS

| | | | |
|--------------------|---|-------------------------|-------------|
| Remarks: | 0000 | Calcium | |
| Rat Hole | 30SK | Hulls | |
| Mouse Hole | | Salt | 13 |
| Centralizers | 2 4/8, 8, 10 | Flowseal | |
| Baskets | 2 x 47 | Kol-Seal | |
| D/V or Port Collar | #48 @ 1896 | Mud CLR 48 | 500 gal |
| | 4 1/2 Set @ 3719 - Insert @ 3679 | CFL-117 or CD110 CAF 38 | |
| | Est. Circulation - Pump 500gal mud | Sand | |
| | Clear-48 - Plug Rathole Cement | Handling | 163 |
| | 4 1/2 with 120SK - Clear lines - Displace | Mileage | |
| | Plug - Plug land @ 1420# Hold - | FLOAT EQUIPMENT | |
| | Release Pressure W/. | Guide Shoe | Port Collar |
| | | Centralizer | 6 Turbo's |
| | | Baskets | 2 |
| | | AFU Inserts | |
| | | Float Shoe | 1 |
| | | Latch Down | 1 |
| | | | - Rotator - |

Thanks

| | | | |
|----------------|----------|--------------|--|
| Pumptrk Charge | 57 | Tax | |
| Mileage | 57 | Discount | |
| Signature | Doc Paul | Total Charge | |

OPERATOR

Company: BLACK DIAMOND OIL, INC.
 Address: PO BOX 641
 HAYS, KS 67601

Contact Geologist: KENNETH VEHIGE
 Contact Phone Nbr: (785) 625-5891
 Well Name: SAMSON #6
 Location: NE SW NW NW 27-4S-22W
 Pool:
 State: KANSAS

API: 15-137-20596
 Field: HANSEN ESTATE NORTHWEST
 Country: USA

Scale 1:240 Imperial

Well Name: SAMSON #6
 Surface Location: NE SW NW NW 27-4S-22W
 Bottom Location:
 API: 15-137-20596
 License Number: 7076
 Spud Date: 2/7/2012 Time: 3:34 PM
 Region: NORTON
 Drilling Completed: 2/11/2011 Time: 11:17 PM
 Surface Coordinates: 670' FNL & 600' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 2264.00ft
 K.B. Elevation: 2269.00ft
 Logged Interval: 0.00ft To: 3720.00ft
 Total Depth: 3720.00ft
 Formation:
 Drilling Fluid Type: FRESH WATER/CHEMICAL GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -99.7936436 Latitude: 39.6808583
 N/S Co-ord: 670' FNL
 E/W Co-ord: 600' FWL

LOGGED BY

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

Phone Nbr: (785) 259-3737
 Logged By: Geologist

Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC
 Rig #: 6
 Rig Type: MUD ROTARY
 Spud Date: 2/7/2012 Time: 3:34 PM
 TD Date: 2/11/2011 Time: 11:17 PM
 Rig Release: 2/13/2012 Time: 12:00 AM

ELEVATIONS

K.B. Elevation: 2269.00ft Ground Elevation: 2264.00ft
 K.B. to Ground: 5.00ft

NOTES

NOTES
 AFTER LOG ANALYSIS AND SAMPLE EXAMINATION 4 1/2" X 10.5# PRODUCTION CASING WAS RUN TO FURTHER EVALUATE ZONES OF INTEREST.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISION SHEET

| FORMATION | SAMSON #6 | | | | BLACK DIAMOND | | | BLACK DIAMOND | | | BLACK DIAMOND | | | SWD | | |
|------------------|---------------------|-------|-------------|-------|---------------|-------|-------|---------------|-------|-------|---------------|-------|-------|------------|-------|-------|
| | NE SW NW NW 27-4-22 | | | | WAGONER #1 | | | SAMSON #4 | | | SAMSON #1 | | | SAMSON #3 | | |
| | KB 2269 | | | | KB 2253 | | | KB 2254 | | | KB 2253 | | | KB 2244 | | |
| | LOG TOPS | | SAMPLE TOPS | | COMP. CARD | | | COMP. CARD | | | COMP. CARD | | | COMP. CARD | | |
| | DEPTH | DATUM | DEPTH | DATUM | DEPTH | DATUM | CORR. | DEPTH | DATUM | CORR. | DEPTH | DATUM | CORR. | DEPTH | DATUM | CORR. |
| ANHYDRITE TOP | 1910 | 359 | 1909 | 360 | 1885 | 368 | - 8 | 1902 | 352 | + 8 | 1886 | 367 | - 7 | 1889 | 355 | + 5 |
| BASE | 1939 | 330 | 1936 | 333 | | | | 1928 | 326 | + 7 | 1910 | 343 | - 10 | 1920 | 324 | + 9 |
| TARKIO | | | | | | | | | | | | | | | | |
| TOPEKA | 3222 | -953 | 3221 | -952 | | | | 3212 | -958 | + 6 | 3207 | -954 | + 2 | | | |
| OREAD | | | | | | | | | | | | | | | | |
| HEEBNER SHALE | 3424 | -1155 | 3422 | -1153 | 3391 | -1138 | - 15 | 3412 | -1158 | + 5 | 3409 | -1156 | + 3 | 3397 | -1153 | + 0 |
| TORONTO | 3451 | -1182 | 3450 | -1181 | | | | | | | 3432 | -1179 | - 2 | 3426 | -1182 | + 1 |
| DOUGLAS | | | | | | | | | | | | | | | | |
| BROWN LIME | | | | | | | | | | | | | | | | |
| LKC | 3468 | -1199 | 3466 | -1197 | 3436 | -1183 | - 14 | 3456 | -1202 | + 5 | 3454 | -1201 | + 4 | 3442 | -1198 | + 1 |
| BKC | 3656 | -1387 | 3653 | -1384 | 3620 | -1367 | - 17 | 3640 | -1386 | + 2 | 3635 | -1382 | - 2 | 3629 | -1385 | + 1 |
| CONGOMLERATE/QTZ | | | | | | | | | | | | | | | | |
| MISSISSIPPIAN | | | | | | | | | | | | | | | | |
| VIOLA | | | | | | | | | | | | | | | | |
| GORHAM SAND | | | | | | | | | | | 3684 | -1431 | | 3664 | -1420 | |
| ARBUCKLE | | | 3716 | -1447 | 3691 | -1438 | - 9 | 3712 | -1458 | + 11 | 3698 | -1445 | - 2 | 3697 | -1453 | + 6 |
| RTD | | | 3720 | -1451 | 3691 | -1438 | - 13 | | | | 3702 | -1449 | - 2 | 3706 | -1462 | + 11 |
| LTD | 3720 | -1451 | | | | | | | | | 3705 | -1452 | | 3699 | -1455 | |

ROCK TYPES

| | | | |
|-----------|------------|------------|----|
| Cht | Lmst fw7> | Carbon Sh | Ss |
| Chtcongll | shale, grn | shale, red | |
| Dolprim | shale, gry | Shcol | |

ACCESSORIES

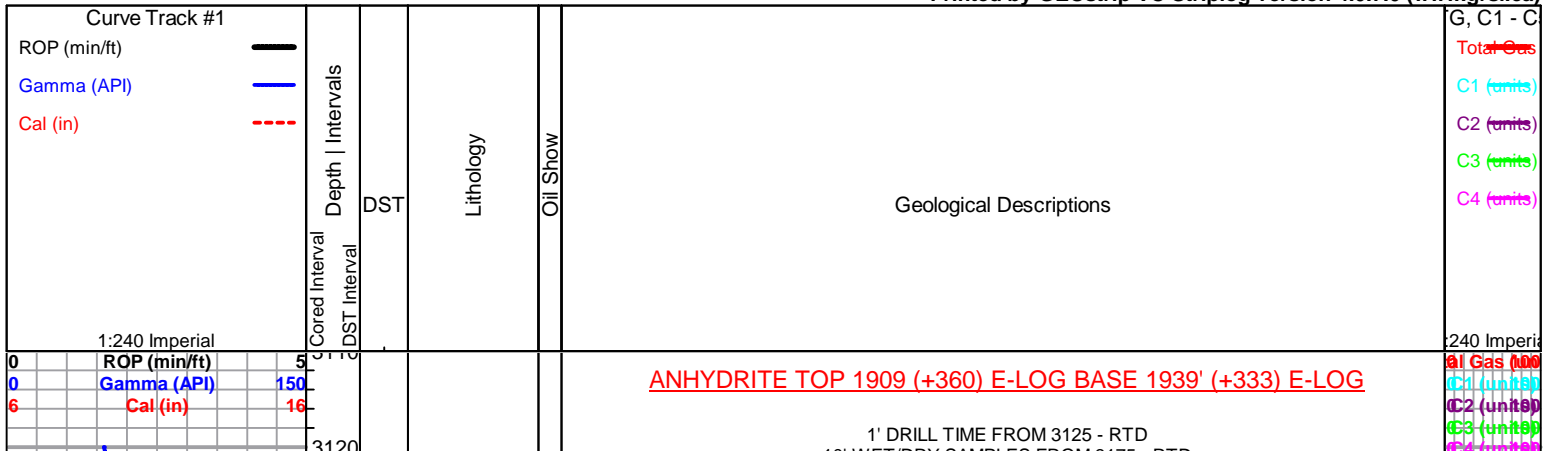
| | | |
|----------------|---------------|-----------------|
| MINERAL | FOSSIL | STRINGER |
| * Sandy | ◊ Oolite | ~~~~ Chert |

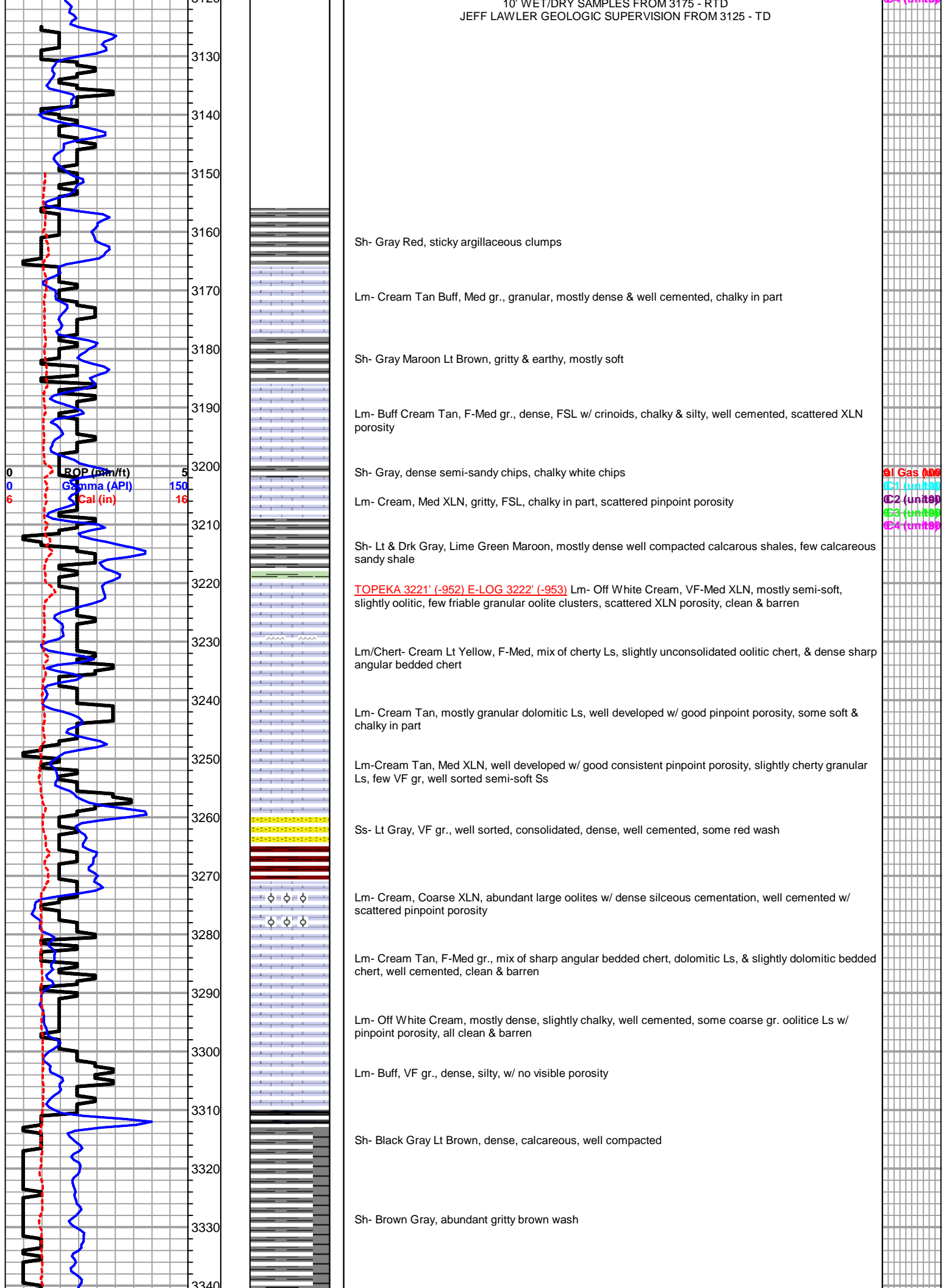
OTHER SYMBOLS

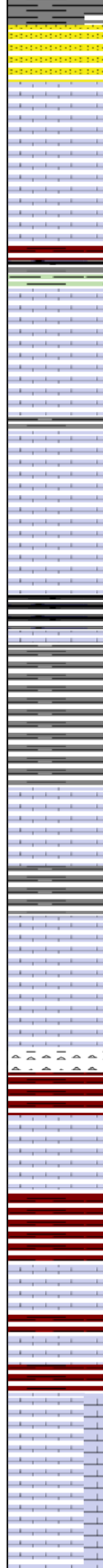
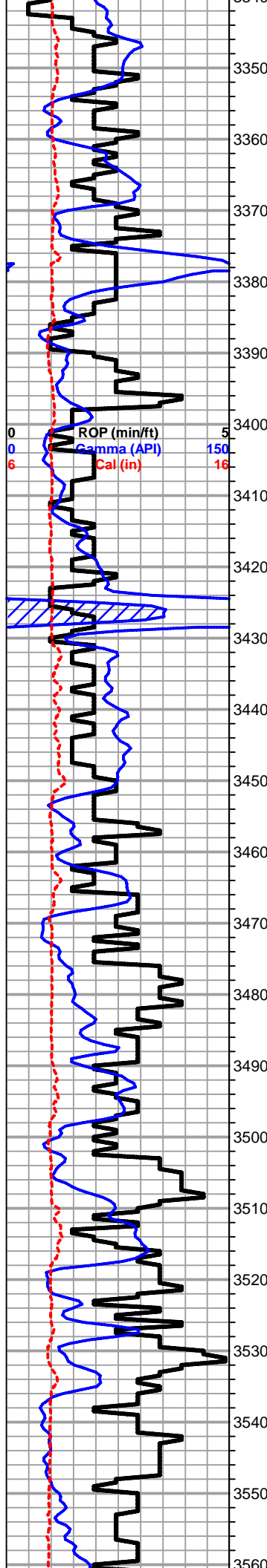
DST

| | |
|--|---------|
| | DST Int |
| | DST alt |
| | Core |

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Ss- Lt Gray, VF gr., well sorted & consolidated, well cemented, consistent pinpoint porosity, clean & barren

Lm- Cream, F gr., gritty dense, semi-soft, pinpoint porosity, chalky in part

Sh- Gray Black Lime Green Maroon Brown, soft, some brown wash

Lm- Cream Buff, F gr., silty & chalky mostly, few dense well cemented chips w/ FSL remnants, fusulinids

Lm- Cream Buff, mostly F-Med XLN, dense siliceous Ls, oolitic, good pinpoint porosity & development, clean & barren

Sh- Lt Gray Maroon Deep Purple, dense, gritty chips

Lm- Off White Cream, VF-F, scattered XLN porosity, mostly dense w/ little visible porosity

HEEBNER 3422' (-1153) E-LOG 3424' (-1155) Sh- Black Gray, dense, carbonaceous, fissile

Sh- Gray, sticky argillaceous clumps

Sh- A/A, abundant gray & brown wash shale

TORONTO 3450' (-1181) E-LOG 3451' (-1182) Lm- Off White, VF-F gr., mostly dense, scattered development & pinpoint porosity, SCATTERED DRK STN, MOST CHIPS W/ SFO UPON CRUSH, INSTANT STREAMING WET CUT & FLOR1-2 W/ COARSE XLN POROSITY, DRK FLAKEY STN UPON CRUSH, SLOW CLOUDY CUT & WEAK FLOR., NO ODR

LKC 3466' (-1197) E-LOG 3468' (-1199) Lm- Cream Tan, F-Coarse XLN, mostly oolitic FXLN, few chips COARSE XLN, WELL DEVELOPED W/ GOOD PINPOINT POROSITY, DRK HVY SCATTERED STN, FO UPON CRUSH, NO ODR, STREAMING WET CUT & FLOR

Lm- Cream, VFXLN, dense, siliceous, mostly cryptocrystalline w/ scattered XLN porosity

Chert- White Lt Gray, dense, sharp angular bedded chert

Lm- Cream Tan, Coarse gr., oolitic, well developed w/ good consistent vuggy porosity, SCATTERED DRK STN, NSFO, FR ODR

Sh- Abundant red wash

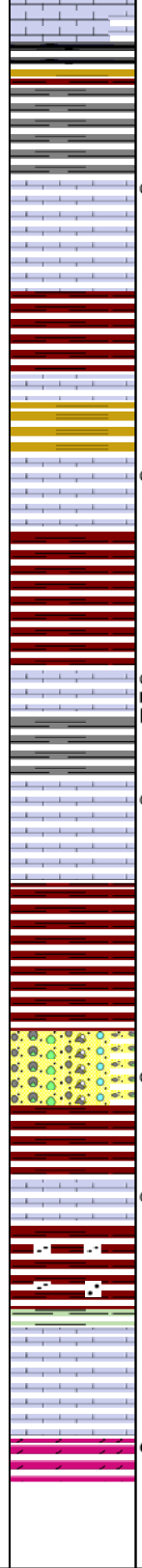
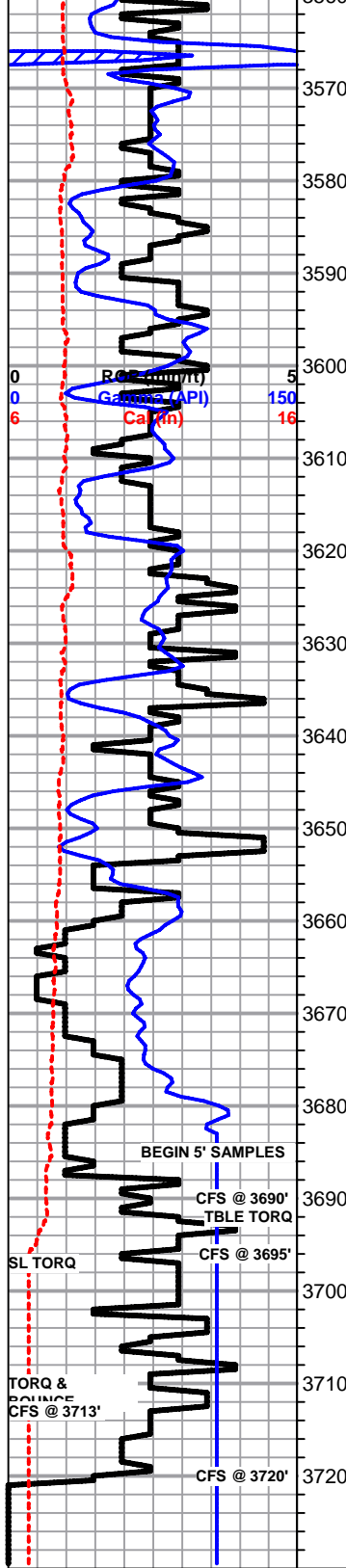
Lm- Tan, VF gr., mostly dense, scattered development and vuggy porosity, recrystallization w/in porosity, LT DRK BRWN STN, VERY FNT ODR

Lm- Cream Tan, VFXLN, dense & well cemented, poorly developed w/ little visible porosity, clean & barren

Lm- Off White, F-Med XLN, development towards top, oolitic w/ scattered vuggy porosity, LST GSY STN, NSFO, FR ODR

Lm- Cream, FXLN, dense, slightly cryptocrystalline, few chips of oolitic sharp bedded chert

G1 Gas (MO)
C1 (unit)
C2 (unit)
C3 (unit)
C4 (unit)



Sh- Black Gray Red Lime Green, mostly gritty earthy

Lm- Off White Cream, F-Med XLN, oolitic, well developed w/ small vugular porosity towards top w/ LT GSY STN, FEW GLOBULES OF FO, FNT ODR

Lm- Buff Cream, Fine gr., mostly dense, minimal development, little visible porosity, well cemented, few chips of trashy gray, slightly unconsolidated

Lm- Cream Tan, VFXLN, slightly FSL w/ few fusulinids, chalky in part, tight w/ little visible porosity

Sh- Lt Brown Gray Red Maroon, dense slivers, Lt Brown wash

Lm- Cream Tan, Med-Coarse XLN, scattered development w/ pinpoint porosity, few massive chips, dense & well cemented, SCATTERED DRK STN, NSFO, SOME FLAKEY STN UPON CRUSH

Sh- Red Gray, abundant red wash, some sandy shales

Lm- Cream Tan, VF-Med XLN, very dense, scattered vuggy porosity, poorly interconnected, recrystallization w/in, DRK HVY DO STN, 1-2 CHIPS W HVY DRK FO UPON CRUSH, NO ODR, SLOW STREAMING WET CUT & FLOR.

Lm- Cream, Med-Coarse XLN, oolitic w/ scattered pinpoint porosity, some oolite clusters, DRK HVY STN, NSFO, NO ODR, GSY SHEEN

BKC 3653' (-1384) E-LOG 3656' (-1387) Sh- Red Lime Green Lt Brown, abundant various colored wash shale & argillaceous sticky clumps, chips of sandy shale

Sh- Red Gray Lime Green, abundant sandy shale & Ss, few chips of unconsolidated conglomerate chert & sharp angular bedded chert

Conglomerate- cherty shaley oolitic Ls, massive, dense, very scattered porosity, DRK SCATTERED STN, 1-2 FLOATING GLOBULES UPON CRUSH, NO ODR,

Sh- Red Lime Green wash

Lm- Cream Tan, Med-Coarse XLN, oolitic, massive, scattered pinpoint porosity, dolomite matrix, SATURATED HVY STN, HVY FO UPON CRUSH

Sh/Ss- Red Gray Dark Green, dense & well compacted. Ss- White/Lime Green tint, fine gr., limey fairly well sorted, clear to semi-frosted, friable, clean & barren

Mint Green wash

Lm- Off White, VFXLN, dense & well cemented, minimal visible porosity, clean & barren

ARBUCKLE 3716' (-1447) Sandy Dolomite- Off White, Med-Coarse, loosely cemented, SATURATED STN, NO ODR

60" smple - somewhat shaley w/ various colored shales

RTD 3720' (-1451) @ 23:17 2/11/2012

01 Gas (MO)
C1 (unit)
C2 (unit)
C3 (unit)
C4 (unit)