

**OPERATOR**

Company: Abercrombie Energy, LLC  
 Address: 10209 W. Central  
 Suite 2  
 Wichita, KS 67212  
 Contact Geologist: Kent Crisler  
 Contact Phone Nbr: 316-262-1841  
 Well Name: Bryant #1-35  
 Location: Sec. 35 - T29S - R31W  
 Pool:   
 State: Kansas  
 API: 15-081-22038-0000  
 Field: Wildcat  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Bryant #1-35  
 Surface Location: Sec. 35 - T29S - R31W  
 Bottom Location:   
 API: 15-081-22038-0000  
 License Number:   
 Spud Date: 10/22/2013 Time: 17:00  
 Region: Haskell County  
 Drilling Completed: 11/5/2013 Time: 12:30  
 Surface Coordinates: 330' FNL & 2310' FEL  
 Bottom Hole Coordinates:   
 Ground Elevation: 2842.00ft  
 K.B. Elevation: 2852.00ft  
 Logged Interval: 3300.00ft To: 5650.00ft  
 Total Depth: 5650.00ft  
 Formation: Mississippian  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: Latitude:  
 N/S Co-ord: 330' FNL  
 E/W Co-ord: 2310' FEL

**LOGGED BY**

***Keith Reavis***  
*Consulting Geologist*

Company: Keith Reavis, Inc.  
 Address: 3420 22nd Street  
 Great Bend, KS 67530  
 Phone Nbr: 620-617-4091  
 Logged By: Keith Reavis and Kent Crisler Name:

**CONTRACTOR**

Contractor: Val Energy  
 Rig #: 1  
 Rig Type: mud rotary  
 Spud Date: 10/22/2013 Time: 17:00  
 TD Date: 11/5/2013 Time: 12:30  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2852.00ft Ground Elevation: 2842.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

Due to the negative results of Drill Stem Tests 1-5 and electrical log analysis, it was determined that the Bryant #1-35 be plugged and abandoned as a dry test.

A Bloodhound gas detection system operated by Bluestem Environmental was employed on this well. ROP and gas curves were imported into this log as well as gamma ray and caliper curves from the electrical log suite. Correlations of

curves were imported into this log, as well as gamma ray and caliper curves from the electrical log suite. Correlations of drill time vs. electrical log tops were generally within 5 ft. Therefore, no curves were shifted to provide an exact match but left as recorded in the field.

Respectfully submitted,  
Keith Reavis

## Abercrombie Energy, LLC

### daily drilling report

DATE	7:00 AM DEPTH	REMARKS
10/26/2013	3061	Geologist Keith Reavis on location @ 1800 hrs, 3365 ft, drilling ahead
10/27/2013	3685	drilling ahead, Stotler, Tarkio, Topeka
10/28/2013	4255	drilling ahead, Heebner, Douglas, Lansing, gas kick in A zone warrants test, short trip, TOH for DST #1, conduct and complete DST #1 successful test
10/29/2013	4338	TIH w/bit, resume drilling, Lansing
10/30/2013	4728	drilling ahead, Stark, Swope, Marmaton, gas kicks in Marmaton warrant test short trip, ctch, TOH for DST #2
10/31/2013	4920	trip in tools, conducting DST #2, complete DST #2, successful test, TIH w/bit, resume drilling Pawnee, Cherokee
11/01/2013	5084	drilling ahead, Cherokee, Atoka, show and gas kick in Cherokee warrants test, TOH for DST #3
11/02/2013	5205	conducting DST #3, 5102-5205 ft, complete DST #3, successful test, TIH w/bit resume drilling, Morrow, Chester
11/03/2013	5422	drilling Chester, St. Gen, show in lower Chester sands warrant DST, TOH to conduct and complete DST #4, successful test, TIH w/bit, ctch, resume drlg.
11/04/2013	5480	drilling ahead, St. Gen, gas kick and show in St. Louis warrant DST, TOH w/bit, conduct DST #5, geologist Keith Reavis off location @ 1230 hrs relieved by geologist Kent Crisler, complete DST #5
11/05/2013	5570	rathole ahead, St. Louis, TD @ 5650', conduct and complete electric logs

## Abercrombie Energy, LLC

### well comparison sheet

DRILLING WELL					COMPARISON WELL			
Bryant #1-35 NE SE SE 35-29-31W					Texas O & G - OMO A#1 SE NW NE 35-29-31W			
2852 KB					2850 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Stotler	3533	-681	3536	-684	3528	-678	-3	-6
Tarkio	3602	-750	3600	-748	3596	-746	-4	-2
Topeka	3828	-976	3824	-972	3819	-969	-7	-3
Lecompton	3957	-1105	3952	-1100	3960	-1110	5	10
Heebner	4162	-1310	4160	-1308	4154	-1304	-6	-4
Douglas	4204	-1352	4201	-1349	4193	-1343	-9	-6
Lansing	4276	-1424	4274	-1422	4264	-1414	-10	-8
Lansing E	4404	-1552	4404	-1552	4396	-1546	-6	-6
Stark Shale	4677	-1825	4674	-1822	4666	-1816	-9	-6
Hushpuckney	4717	-1865	4716	-1864	4710	-1860	-5	-4
Base KC	4756	-1904	4755	-1903	4746	-1896	-8	-7
Marmaton	4817	-1965	4814	-1962	4807	-1957	-8	-5

Pawnee	4924	-2072	4925	-2073	4913	-2063	-9	-10
Fort Scott	4972	-2120	4967	-2115	4960	-2110	-10	-5
Cherokee	5007	-2155	5003	-2151	4996	-2146	-9	-5
Atoka	5168	-2316	5165	-2313	5159	-2309	-7	-4
Morrow	5211	-2359	5206	-2354	5200	-2350	-9	-4
Chester	5252	-2400	5262	-2410	5249	-2399	-1	-11
St. Gen	5414	-2562	5429	-2577	5421	-2571	9	-6
St. Louis A	5516	-2664	5515	-2663	5504	-2654	-10	-9
Total Depth	5650	-2798	5650	-2798	5804	-2954	156	156

### ROCK TYPES

Cht	sdymst	shale, grn	shale, red
Cht vari	Lmst fw<7	shale, gry	Ss
Dolsec	Lmst fw>7	Carbon Sh	

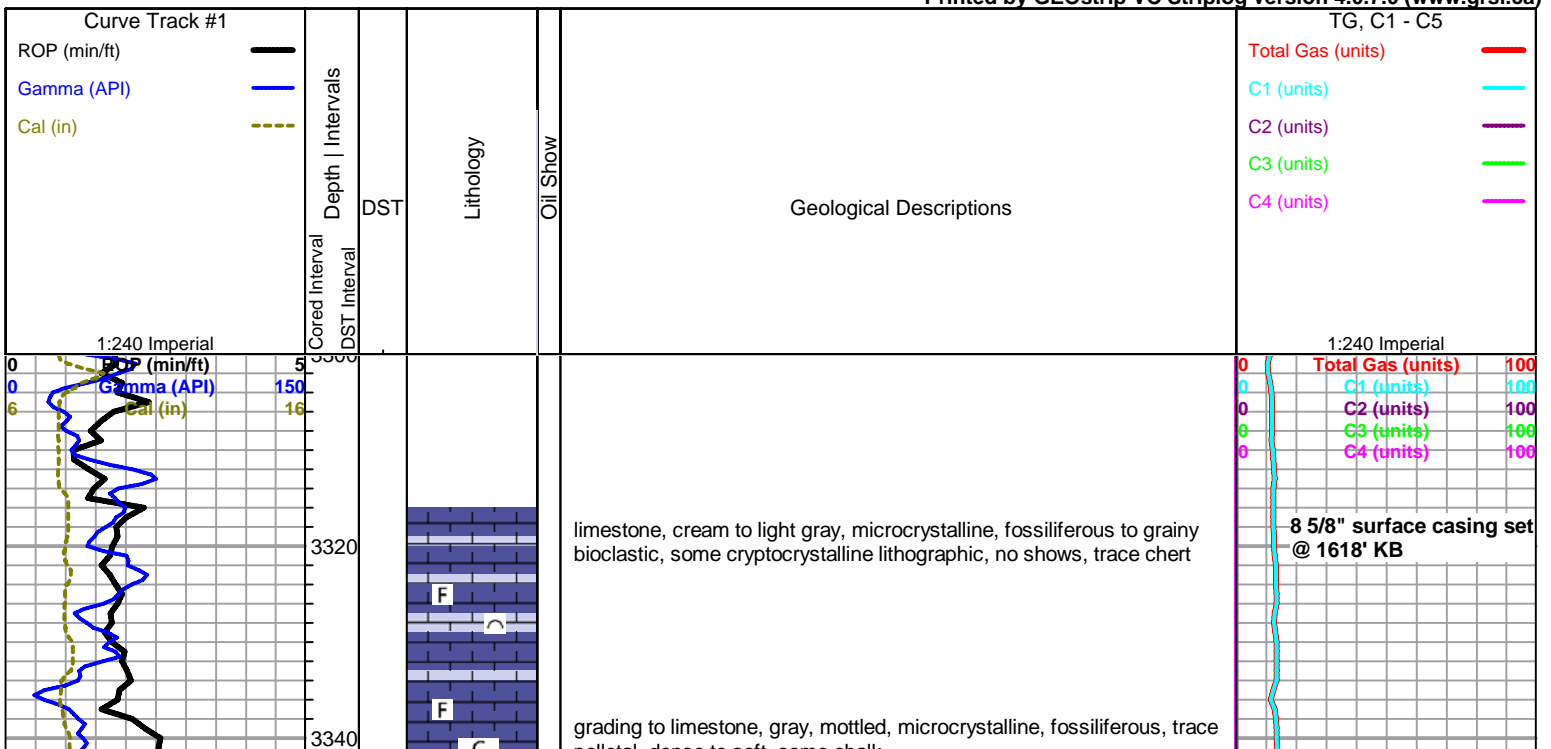
### ACCESSORIES

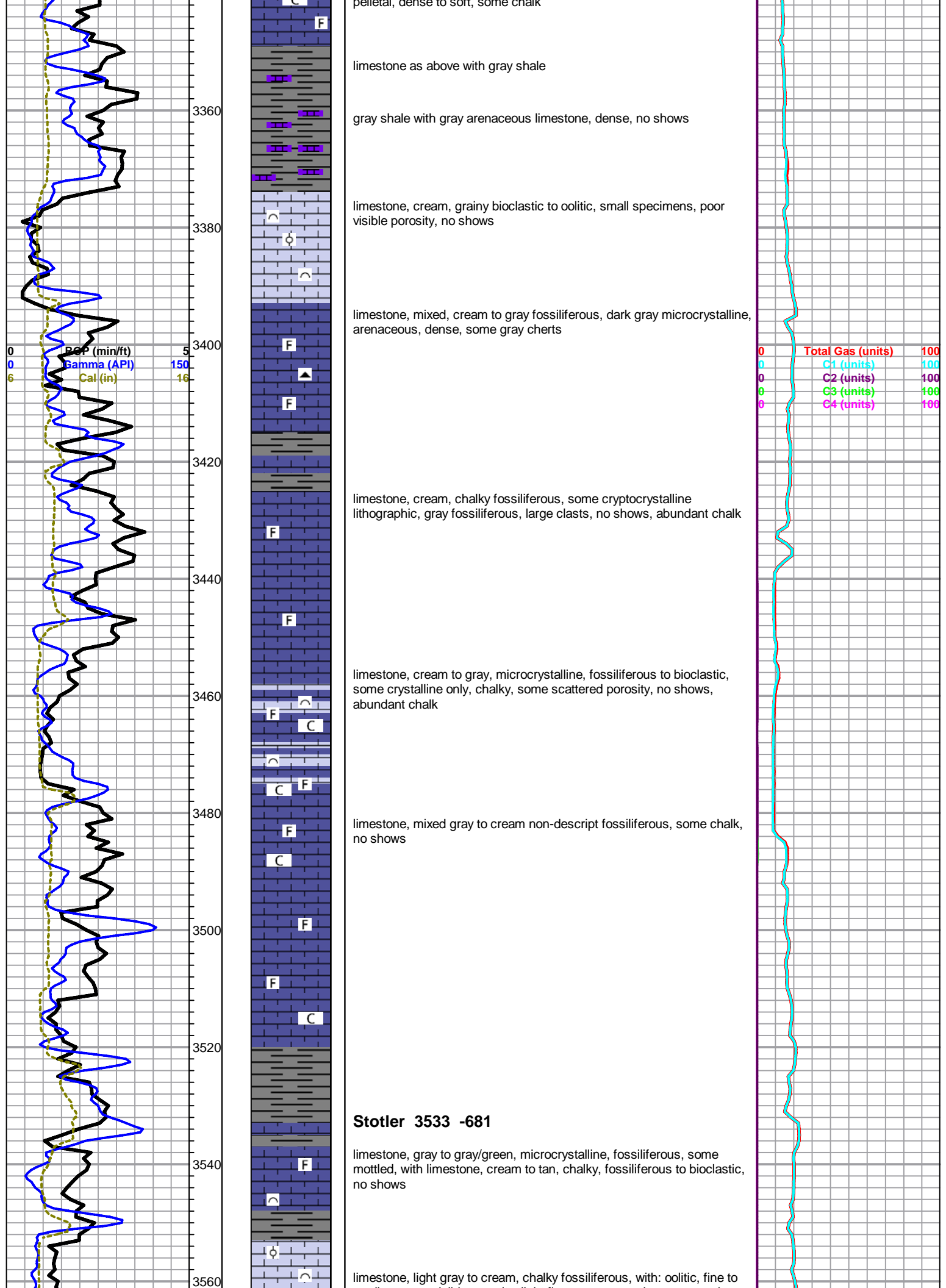
<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
- Argillaceous	^ Bioclastic or Fragmental	Limestone	C Chalky
▲ Chert, dark	∩ Coral	Sandstone	L Lithogr
∠ Dolomitic	F Fossils < 20%	Shale	
P Pyrite	⊕ Oolite	green shale	
• Silty	⊘ Pellets	red shale	
△ Chert White	⊙ Oomoldic	carb shale	
■ Argillaceous/Shale			

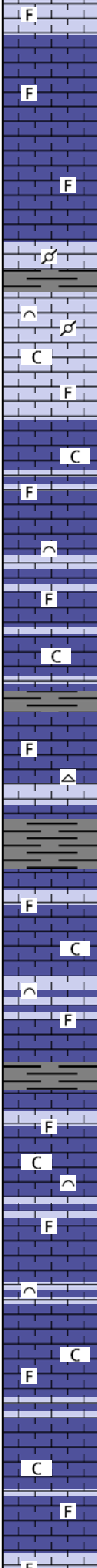
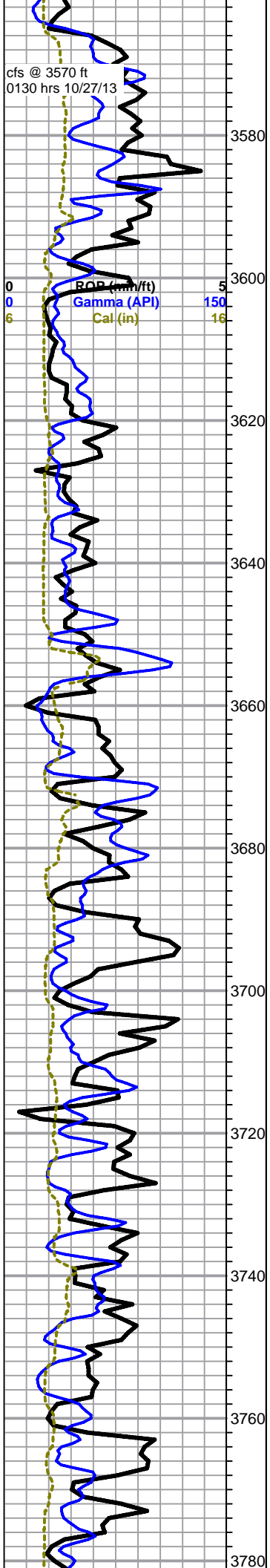
### OTHER SYMBOLS

<b>MISC</b>	<b>Oil Show</b>	<b>DST</b>
Daily Report	● Good Show	DST Int
Digital Photo	● Fair Show	DST alt
Document	● Poor Show	Core
Folder	○ Spotted or Trace	tail pipe
Link	○ Questionable Strn	
Vertical Log File	⊠ Dead Oil Stn	
Horizontal Log File	■ Fluorescence	
Core Log File	* Gas	
Drill Cuttings Rpt		

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







medium, poor visible porosity, light fluorescence, no shows, some dense cryptocrystalline limestones

limestone, cream to light gray, mixed fossiliferous, some chalky, mostly dense

limestone, gray, mottled, pelletal to bioclastic, chalky, poor visible porosity, trace glauconitic, no shows

**Tarkio 3602 -750**

as above with: limestone, cream, microcrystalline, bioclastic to fossiliferous, some oolitic, poor visible porosity, no shows

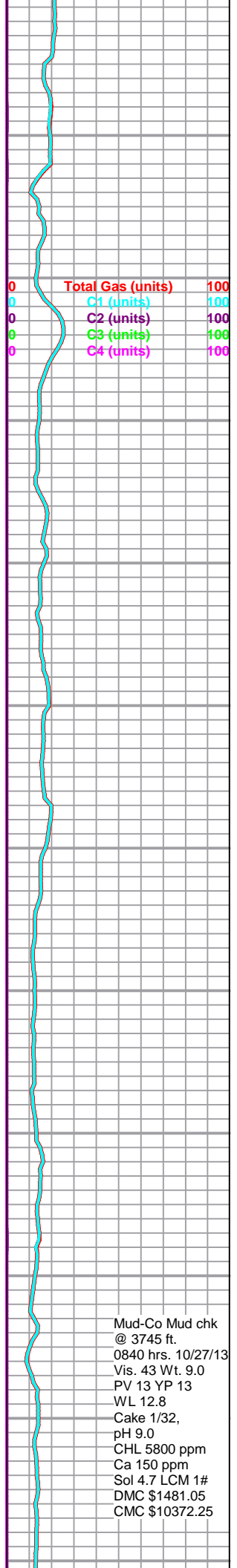
limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, some bioclastic, poor overall visible porosity, abundant chalk, no shows

as above, some chert

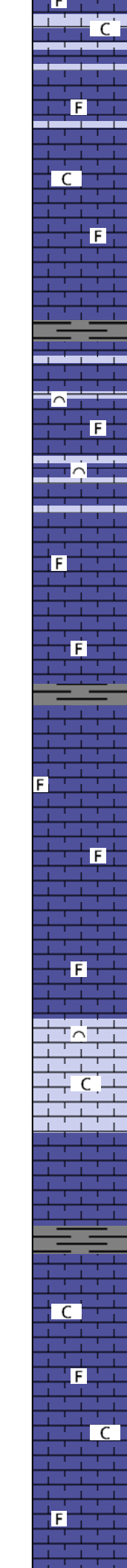
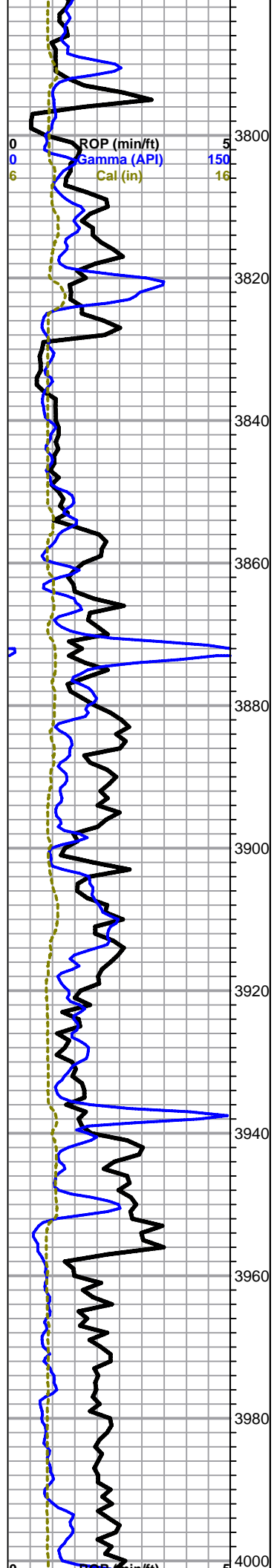
limestone, mixed, light gray to cream and pale green, fossiliferous, some chalky bioclastic, trace chert, no shows

limestones, as above, abundant green shales

limestone, grades to white to light gray, microcrystalline, fossiliferous, some very chalky, poor visible porosity, scattered light gray cherts



Mud-Co Mud chk  
@ 3745 ft.  
0840 hrs. 10/27/13  
Vis. 43 Wt. 9.0  
PV 13 YP 13  
WL 12.8  
Cake 1/32,  
pH 9.0  
CHL 5800 ppm  
Ca 150 ppm  
Sol 4.7 LCM 1#  
DMC \$1481.05  
CMC \$10372.25



as above

**Topeka 3828 -976**

limestone, light gray to cream, micro-cryptocrystalline, fossiliferous, with tan grainy bioclastic, chalky, small pieces, poor visible porosity, no shows, some chalk

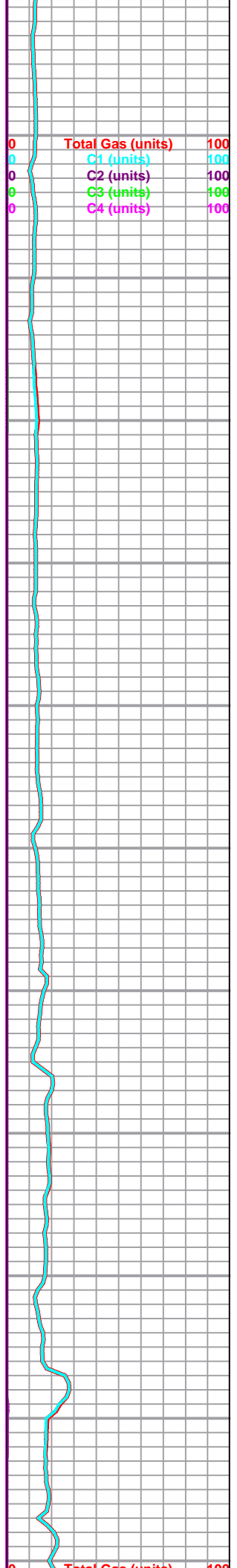
limestone, mixed cream to gray, some tan, fossiliferous, no shows

limestone, mixed non-descript fossiliferous, no shows

limestone, cream to tan and gray, grainy chalky bioclastic, some pinpoint porosity, no shows

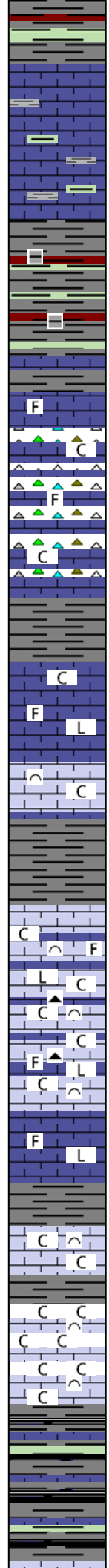
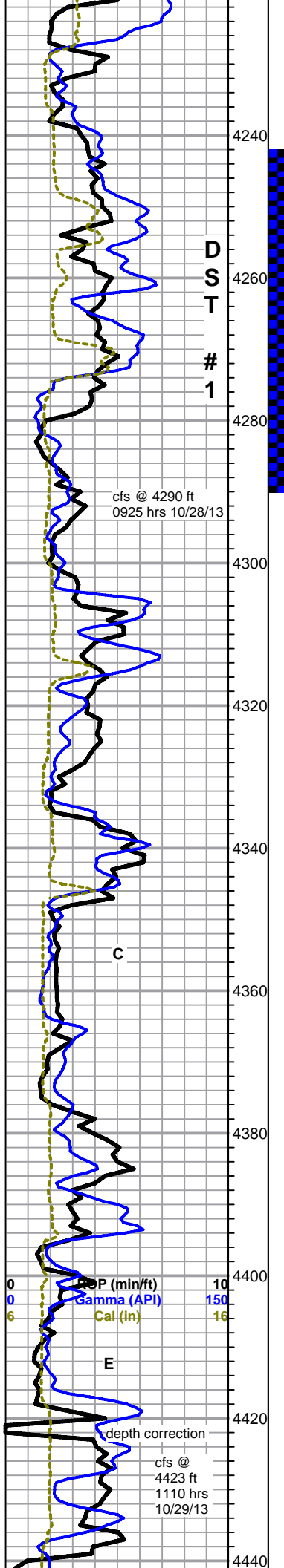
**Lecompton**

limestone, white to light gray, microcrystalline, fossiliferous, chalky, poor visible porosity, abundant chalk, no shows









soft sticky shale, gray, red and green

limestone, cream to gray, microcrystalline, grainy fossiliferous, to light gray, chalky fossiliferous, abundant chalk, no shows

shales, mixed, fissle to platy, argillaceous in part

Abercrombie Bryant 1-35 dst 1\_Page\_1.jpg

**Lansing 4276 -1424**

limestone, light gray to cream, microcrystalline, fossiliferous, chalky and brittle in part, chert, light gray to white, opaque, some frosted, fossiliferous, mostly sharp and fresh, few pieces weathered, no shows, abundant chalk

limestone and chert as above

limestone, gray, cryptocrystalline, dense lithographic, with limestone, cream and light gray, chalky fossiliferous, no shows

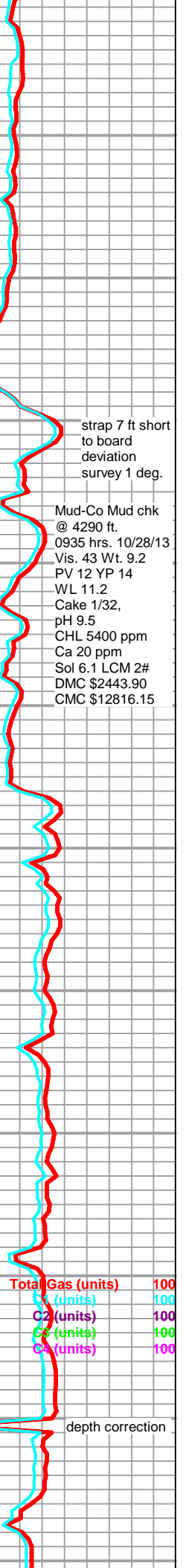
limestone, tan to gray, grainy bioclastic, chalky, trace pelletal, flood chalk, poor visible porosity, no shows or fluorescence

limestone, mixed tan to gray, cryptocrystalline, bioclastic to fossiliferous to lithographic, dense, with grainy to chalky bioclastic to fossiliferous, poor visible porosity, abundant chalk, up to 30% in samples, no shows, some scattered chert

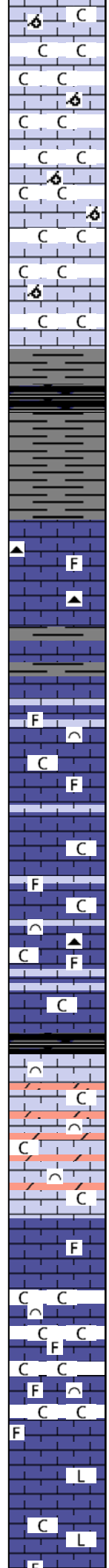
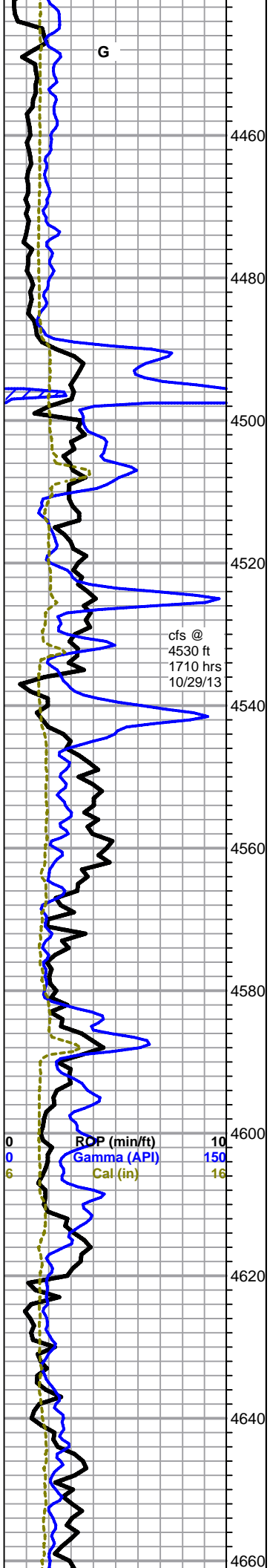
limestone, tan to gray mottled, grainy, fossiliferous, chalky in part, fairly dense, no shows

limestone, cream to light gray, bioclastic, grainy, some pinpoint porosity, friable to fairly dense, no shows, poor fluorescence, appx 40-50% chalk in samples

shale, black, gray, green, limey in part, with limestones, dark gray to brown, fossiliferous, dense, some with larger secondary calcite crystals







limestone, tan and gray, oomoldic, large molds, good porosity, barren, abundant chalk, very dull even fluorescence

as above, increasing chalk

dark gray and black carbonaceous shale

limestone, cream and light gray, mostly microcrystalline, slightly fossiliferous, dense, abundant dark gray chert, slightly fossiliferous, sharp, fresh, no shows

limestone, light gray to cream, micro to cryptocrystalline, fossiliferous, poor visible porosity, some grainy dense bioclastic with secondary interclast calcite, some pinpoint porosity, no shows or fluorescence, some chalk

as above, increase in chalk, some scattered gray fossiliferous cherts

shale, black

limestone, light gray to cream, bioclastic, poor visible porosity, with dolomite, light gray and cream, microcrystalline, sub-rhombic to sub-sucrosic, (small specimens) no visible porosity, no show, faint fluorescence, abundant chalk

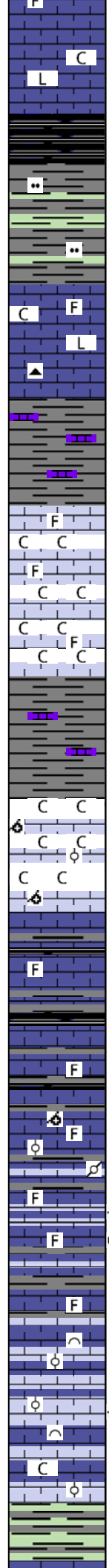
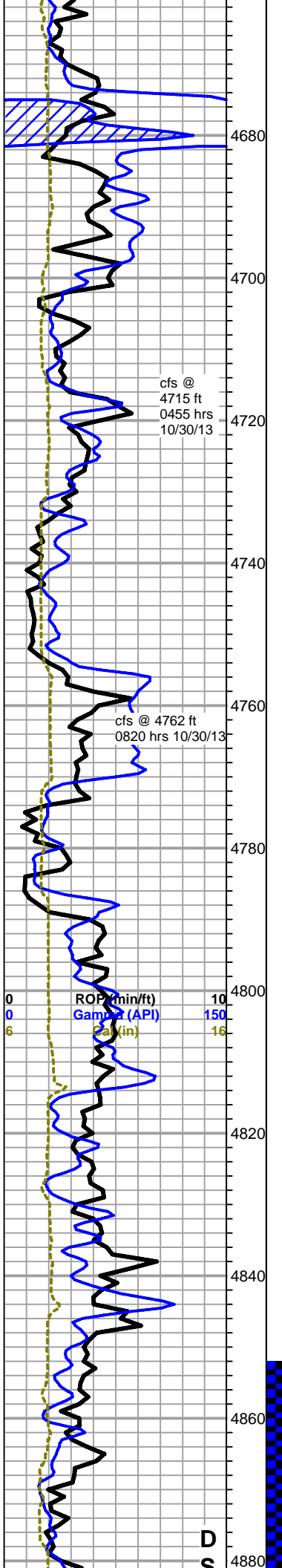
limestone, gray to dark gray, mostly cryptocrystalline, fossiliferous, some bioclastic, no visible porosity, light gray chalky lithographic, flood chalk, 30-40% in samples, no shows

limestone, variable gray, mostly cryptocrystalline lithographic, dense, scattered slightly fossiliferous, abundant lithographic chalky, no shows

Mud-Co Mud chk  
@ 4402 ft.  
0940 hrs. 10/29/13  
Vis. 45 Wt. 9.3  
PV 14 YP 15  
WL 10.8  
Cake 1/32,  
pH 9.0  
CHL 5500 ppm  
Ca 20 ppm  
Sol 6.8 LCM 2#  
DMC \$1519.55  
CMC \$14335.70

46 unit total

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
G3 (units)	100



**Stark Shale 4677 -1825**

black carbonaceous shale  
gray to gray/green soft silty shales

**Swope**

limestone, gray, cryptocrystalline, chalky lithographic to fossiliferous, no visible porosity, abundant chalk, with chert, gray to dark gray, fossiliferous, sharp, fresh, no shows or fluorescence

**Hushpuckney 4717 -1865**

shale, gray, some dark gray dense limestone

limestone, light gray to cream chalky fossiliferous, gray mottled fossiliferous to pelletal, poor visible porosity, appx 50%+ chalk in samples, no fluorescence, no shows

**Base KC 4756 -1904**

shale, gray, limey, some fossiliferous, with some gray arenaceous shaley fossiliferous limestones

mostly chalk, with tan oomoldic limestone, some oolitic, small specimens, good porosity, barren, some chalky soft fossiliferous limestone, no fluorescence

limestone, gray to dark gray, microcrystalline, fossiliferous, cherty, arenaceous in part, some large clasts, dark gray and black dense limey shales, striated to grainy, no shows

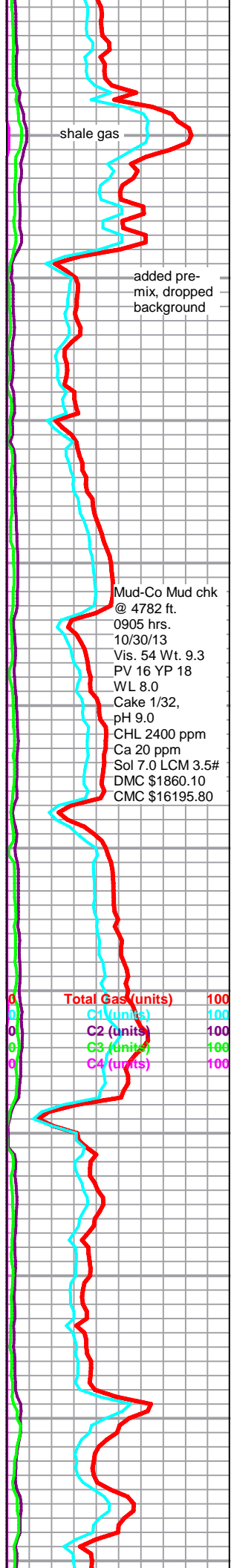
**Marmaton 4817 -1965**

limestone, mixed, gray to tan, crypto-microcrystalline, fossiliferous to oolitic/pelletal, trace dense oomoldic, very dense to chalky, no visible porosity, no shows

4640 sample, limestone, gray to cream and white, dense crypto-microcrystalline, very fossiliferous, some coral fans, grainy in part, chalky in part, poor visible porosity, fleeting odor, few specimens bleed slow gas bubbles and light sheen on break, no fluorescence

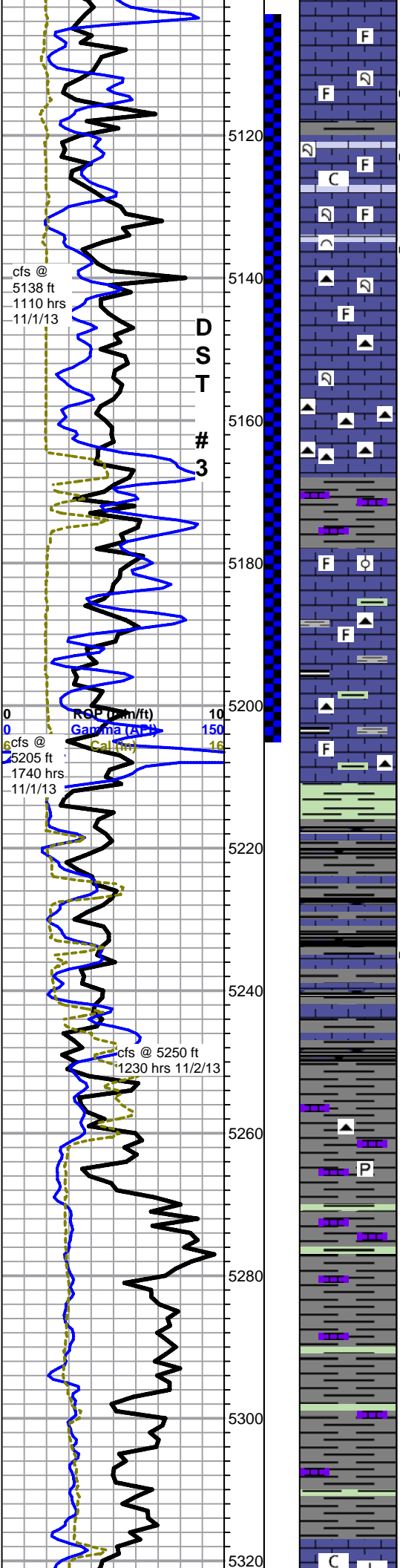
limestone, light gray to cream and white, oolitic, mature to flattened, with bioclastic, dense to chalky, some scattered interoolite and interclast porosity, trace gas bubbles on break, faint odor under lamp, no show free oil or staining, no fluorescence

limestone, cream to light gray, mostly cryptocrystalline, flattened oolitic



Mud-Co Mud chk @ 4782 ft. 0905 hrs. 10/30/13 Vis. 54 Wt. 9.3 PV 16 YP 18 WL 8.0 Cake 1/32, pH 9.0 CHL 2400 ppm Ca 20 ppm Sol 7.0 LCM 3.5# DMC \$1860.10 CMC \$16195.80





limestone, gray to light gray, cryptocrystalline, fossiliferous with abundant coral, some small vugs and edge solution etching with light brown staining, slight show free oil, good spotty fluorescence, slow faint cut, good odor in wet cup (5130 sample)

5138 sample, limestone as above, chalkier, influx chalk in sample, decrease in show, fleeting odor in wet cup, 30 min sample, few small pieces grainy dense bioclastic, tan, grainy, some interclast pin-point porosity, light brown stain, trace free oil on break, fleeting odor, fair fluorescence

limestones as above, trace oolitic, abundant chert, gray to tan, fossiliferous (coral)

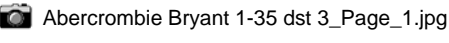
6160 sample - mixed cream to gray limestones, fossiliferous, abundant coral frags and fans, poor visible porosity no shows, only some light mineral fluorescence

5170 sample - limestone, dark gray, microcrystalline, fossiliferous in part, abundant black obsidian like chert, no shows

**Atoka 5168 -2316**

gray to dark green shale influx, grainy to agrillaceous, trace pyritic, with abundant brown and gray compacted fossiliferous/oolitic limestone

5200 sample, grades to limestone, dark gray, microcrystalline, fossiliferous in part, some calcite seams, light gray chalky fossiliferous limestone, gray/black limey to green pyritic shale, some black cherts, no shows



**Morrow 5211 -2359**

some green shale grading to dark gray to black, mostly dense but brittle shales, pyritic in part, limey in part, with dark gray to gray limestone, micro to cryptocrystalline, fossiliferous, dense, no shows

limestone, cream to light gray, medium crystalline, re-crystallized, some large re-crystallized rhombs, fossiliferous, mostly dense, few scattered pieces with solution vugs, saturated stain, show free oil, no fluorescence or odor, good cut, few scattered pieces with dead spotty stain

**Chester 5252 -2400**

5260 sample, flood shale, soft gray clayey to variable gray fissile-platy, some cream to gray fossiliferous limestone, poor visible porosity, chalky in part, some chalk in samples, trace gray fresh chert, few pyrite nodules, no shows

variable gray platy to fissile shales as above, some green clayey amorphous shales, mixed limestones, brown to gray fossiliferous, some light gray soft arenaceous, no shows

as above, marked decrease in limestone

limestone, light gray to blue/gray and cream, cryptocrystalline, lithographic to slightly fossiliferous, abundant chalk and light gray

121 unit total



Mud-Co Mud chk @ 5252 ft. 1325 hrs. 11/2/13  
 Vis. 57 Wt. 9.2  
 PV 15 YP 18  
 WL 10.8  
 Cake 1/32,  
 pH 10.5  
 CHL 3600 ppm  
 Ca 20 ppm  
 Sol 6.2 LCM 2#  
 DMC \$1302.50  
 CMC \$20088.25

fresh air re-zero

fresh air re-zero



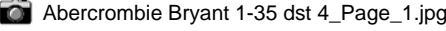
stratigraphic to slightly fossiliferous, abundant chalk and light gray  
mushy clays in samples, no shows

shale, mixed gray, soft to fissile, brittle, some dense, limey, some  
fossiliferous

shale as above, scattered sandstone, light gray to white, quartz, very  
fine grain, fair sorting and rounding, poor visible porosity, well  
cemented, calcareous, dense, barren

sandstone, as above, some pale green, spotty to appx 50% saturated  
brown stain, show heavy oil droplets on break, no odor, no fluorescence,  
slow milky cut with halo, still abundant inter-mixed shale and some  
siltstones

as above, decreasing staining

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sandstone as above, more friable than above, saturated brown to black  
stain, good show free oil, strong odor, no fluorescence, good to excellent  
cut

5400 sample, sand a.a., decreasing show, still strong odor, influx of gray, very  
fine grain, well sorted and rounded, poor visible porosity, small clay, mica and  
pyrite inclusions, some gilsonite with limestone, light gray to cream, sandy,  
dense, abundant chalk - still strong odor in wet cup with free oil

5410 sample, a.a., with influx green shale and pink clays, pink wash in  
samples, still carrying strong odor

5420 sample, cream to gray sandy limestone, green sandstone, very fine grain,  
fairly dense, barren, some green sandy limestone, abundant chalk

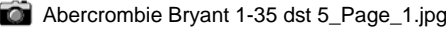
### St. Gen 5414 -2562

cfs samples, limestone, light gray to pale gray/green, micro-oolitic,  
sandy, chalky, with some chalk and scattered chert, orange with black  
specks, some light orange translucent, no shows

limestone, light gray to pale green/gray, sandy, micro-oolitic, chalky,  
some scattered pieces with saturated black dead stain, no show of free  
oil, no odor or fluorescence

as above, decreasing stain

5490-5500 samples - as above, marked influx light gray platy/slivered  
shales, calcareous (sluff?), few specimens, white to light gray, larger  
mature oolites, chalk, no shows

 Abercrombie Bryant 1-35 dst 5\_Page\_1.jpg

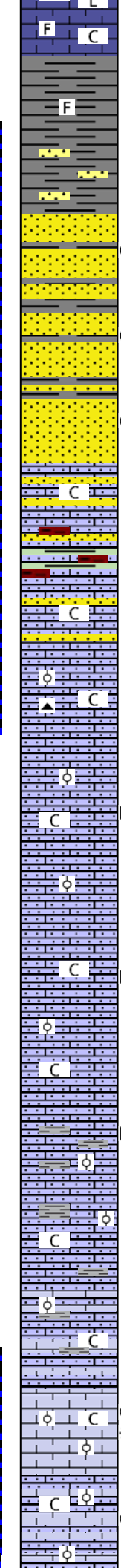
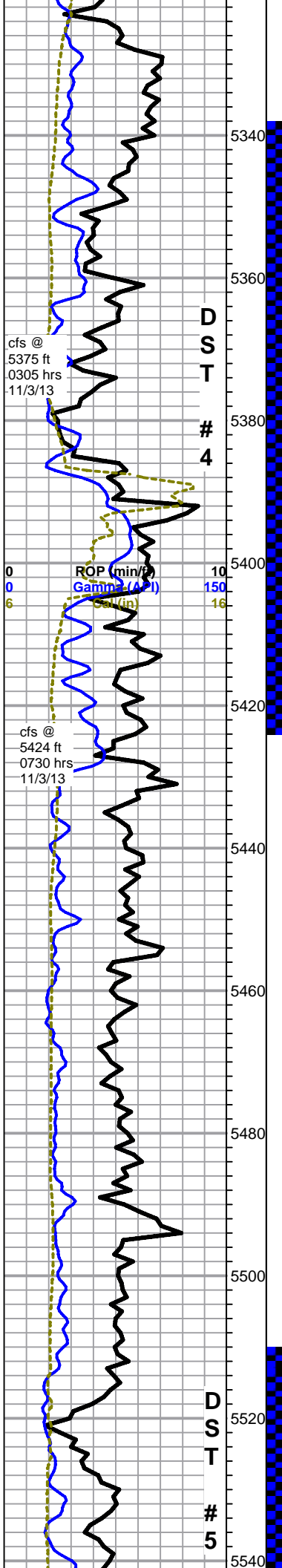
5510 sample, flood shale as above, almost all shale, some pyrite, some  
light green shale - some sandy and oolitic limestone a.a.

decrease shales, increase limestone, mixed oolitic, mature to flattened,  
mostly chalky and sandy, trace glauconite, poor visible porosity, no  
shows

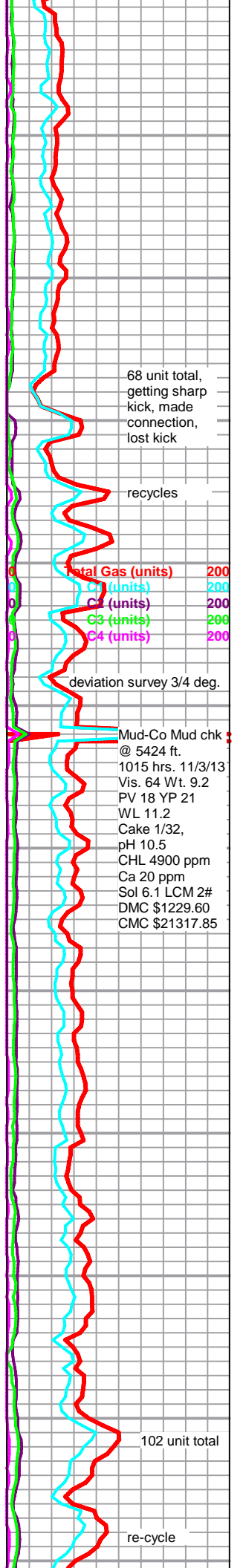
### St. Louis "A" 5516 -2664

limestone, white, oolitic, mature, chalky, very small specimens, couple  
with slight inter-oolite porosity and stain, gas bubbles, no show free oil,  
faint odor, fair fluorescence, no cut, (samples to small?) still flooded with  
shales in samples

limestone, white to cream, mixed mature to flattened oolitic, chalky,  
abundant sandy micro-oolitic, brown stained, sheen oil on break, poor  
visible porosity, fleeting odor, no fluorescence, very faint cut



Textual descriptions of rock types and sample data corresponding to the well log and stratigraphic column.



68 unit total,  
getting sharp  
kick, made  
connection,  
lost kick

recycles

Total Gas (units) 200  
C1 (units) 200  
C2 (units) 200  
C3 (units) 200  
C4 (units) 200

deviation survey 3/4 deg.

Mud-Co Mud chk  
@ 5424 ft.  
1015 hrs. 11/3/13  
Vis. 64 Wt. 9.2  
PV 18 YP 21  
WL 11.2  
Cake 1/32,  
pH 10.5  
CHL 4900 ppm  
Ca 20 ppm  
Sol 6.1 LCM 2#  
DMC \$1229.60  
CMC \$21317.85

102 unit total

re-cycle

**Geologist Kent Crisler relieves Geologist Keith Reavis**

5560- LS COURSE CXTLN LT GRAY APPEARS SANDY BUT IS CALCITE NODULES NOT SAND NO SHOW NO POROSITY NO FLOR

5570- LS CRYPTO CXTLN BROWN DENSE NS NO POR

5580-5590 BACK TO SANDY LOOKING INCREASE IN SLUF OF CHESTER SHALES AFTER NEW TANK OF MUD IS WEARING OFF NS NO KICK

5600 & 5610- LS MED CXTLN DENSE GRAY & BROWN NS NO POR WITH LT BROWN CHERT

5620- LS CREAM SLIGHTLY LEACHED W/ DEAD OIL STAIN NO FREE OIL SLIGHT ODOR

5630- LS-SOME HIGHLY OOLITIC WITH POOR- FAIR INTER-OOL POROSITY ODOR & FREE OIL IN 3 PIECES/TRAY OIL SLOW TO MAKE DROPLETS

5640- AS ABOVE W/ FEW PERMABLE PIECES

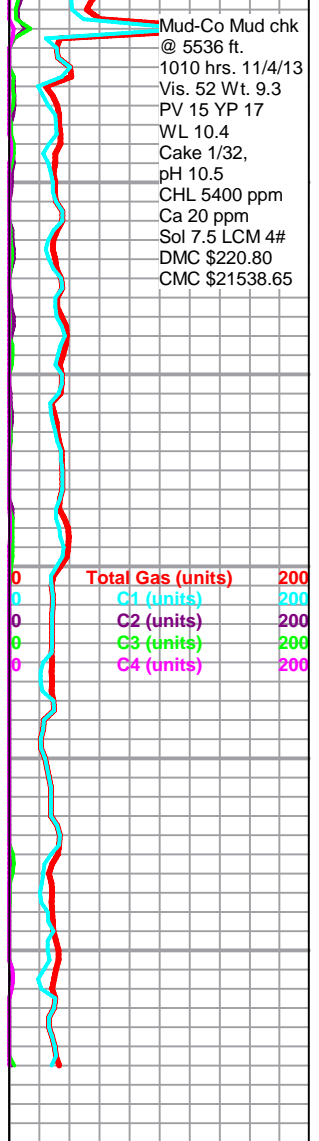
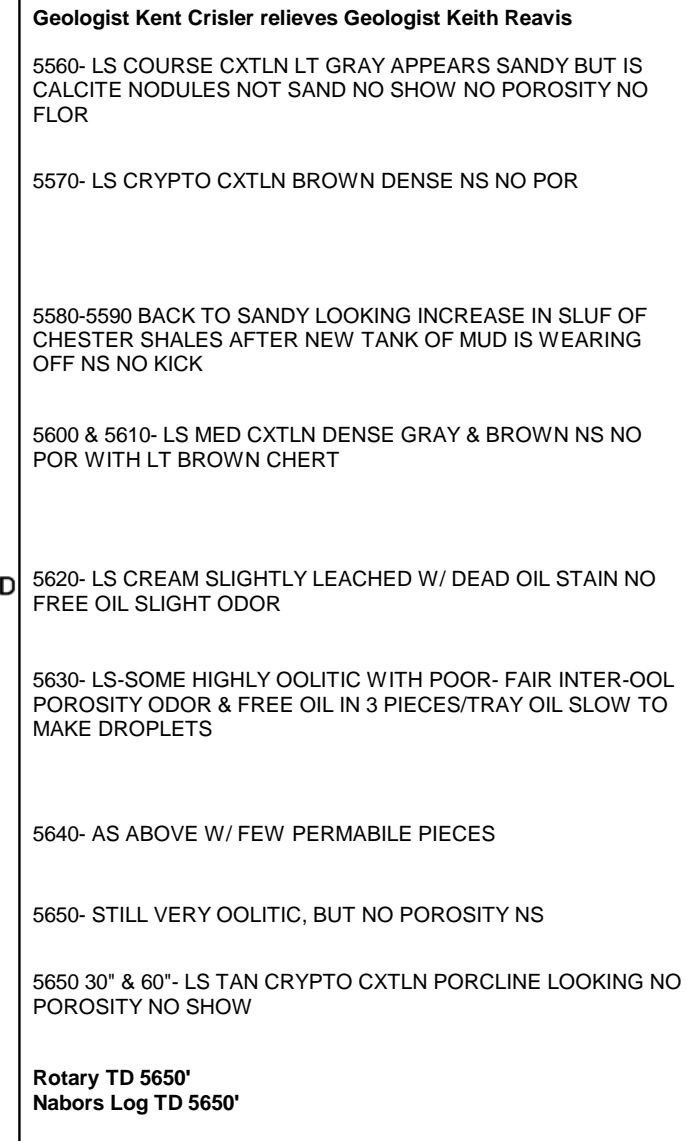
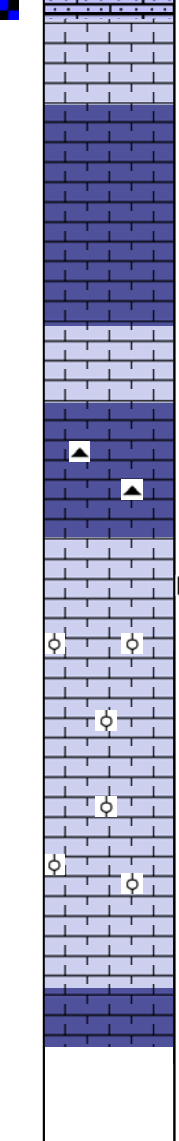
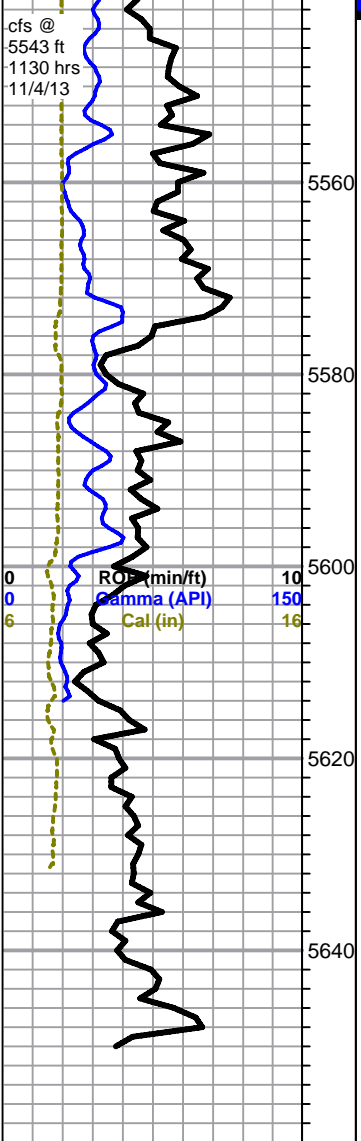
5650- STILL VERY OOLITIC, BUT NO POROSITY NS

5650 30" & 60"- LS TAN CRYPTO CXTLN PORCLINE LOOKING NO POROSITY NO SHOW

**Rotary TD 5650'**  
**Nabors Log TD 5650'**

Mud-Co Mud chk @ 5536 ft.  
1010 hrs. 11/4/13  
Vis. 52 Wt. 9.3  
PV 15 YP 17  
WL 10.4  
Cake 1/32,  
pH 10.5  
CHL 5400 ppm  
Ca 20 ppm  
Sol 7.5 LCM 4#  
DMC \$220.80  
CMC \$21538.65

0	Total Gas (units)	200
0	C1 (units)	200
0	C2 (units)	200
0	C3 (units)	200
0	C4 (units)	200







**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Abercrombie Energy, LLC

**35- 29s- 31w Haskell Co.**

10209 W. Central STE2  
Wichita, KS 67212

**Bryant #1-35**

Job Ticket: 54743

**DST#: 1**

ATTN: Keith Reavis

Test Start: 2013.10.28 @ 17:18:00

**GENERAL INFORMATION:**

Formation: **Lansing " A "**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:22:30

Time Test Ended: 00:21:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Sam Esparza

Unit No: 64

**Interval: 4242.00 ft (KB) To 4290.00 ft (KB) (TVD)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 4290.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 53.30 psig @ 4243.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.28

End Date: 2013.10.29

Last Calib.: 2013.10.29

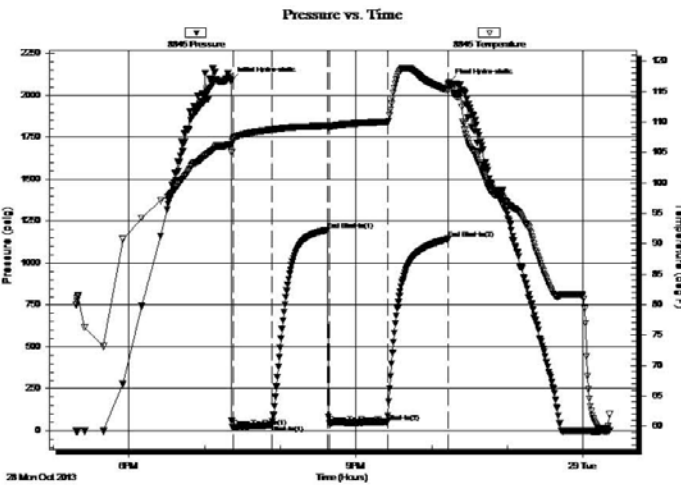
Start Time: 17:18:05

End Time: 00:20:59

Time On Btm: 2013.10.28 @ 19:21:15

Time Off Btm: 2013.10.28 @ 22:13:30

**TEST COMMENT:** IF: BOB @ 2 min.  
ISI: No Return.  
FF: BOB @ Immediately. GTS @ 12 min.  
FSI: No Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2088.21	106.22	Initial Hydro-static
2	21.35	107.08	Open To Flow (1)
32	34.03	108.73	Shut-In(1)
76	1197.12	109.35	End Shut-In(1)
78	43.82	109.14	Open To Flow (2)
124	53.30	110.01	Shut-In(2)
172	1143.59	115.16	End Shut-In(2)
173	2077.37	116.07	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
90.00	Mud 100m	1.26

**Gas Rates**

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



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Abercrombie Energy, LLC

**35- 29s- 31w Haskell Co.**

10209 W. Central STE2  
Wichita, KS 67212

**Bryant #1-35**

Job Ticket: 54744

**DST#: 2**

ATTN: Keith Reavis

Test Start: 2013.10.31 @ 01:45:00

**GENERAL INFORMATION:**

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:23:45

Time Test Ended: 11:06:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 4852.00 ft (KB) To 4920.00 ft (KB) (TVD)**

Total Depth: 4920.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2852.00 ft (KB)

2842.00 ft (CF)

KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 1361.82 psig @ 4853.00 ft (KB)

Start Date: 2013.10.31

End Date: 2013.10.31

Start Time: 01:45:05

End Time: 11:06:15

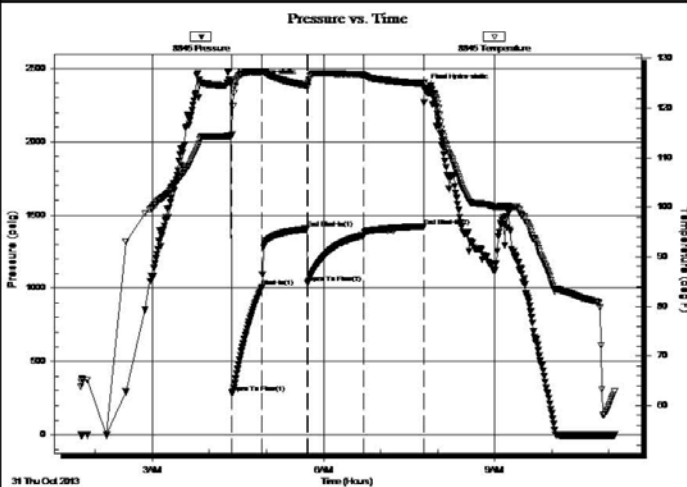
Capacity: 8000.00 psig

Last Calib.: 2013.10.31

Time On Btm: 2013.10.31 @ 04:23:00

Time Off Btm: 2013.10.31 @ 07:46:30

**TEST COMMENT:** IF: BOB @ 1 min.  
IS: No Return.  
FF: BOB @ 2 1/2 min.  
FS: 9" Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2400.31	114.38	Initial Hydro-static
1	286.38	114.62	Open To Flow (1)
33	1007.83	127.19	Shut-In(1)
80	1405.94	124.61	End Shut-In(1)
81	1036.36	124.43	Open To Flow (2)
140	1361.82	126.69	Shut-In(2)
203	1421.32	124.96	End Shut-In(2)
204	2371.89	123.77	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
180.00	OWCM 5o 20w 75m	2.52
2520.00	GMCW 5m 10g 85w	35.35
0.00	180' GIP	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

Abercrombie Energy, LLC

**35- 29s- 31w Haskell Co.**

10209 W. Central STE2  
Wichita, KS 67212

**Bryant #1-35**

Job Ticket: 54745

**DST#: 3**

ATTN: Keith Reavis

Test Start: 2013.11.01 @ 21:31:00

**GENERAL INFORMATION:**

Formation: **Cherokee Atoka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:59:30

Time Test Ended: 05:22:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 5103.00 ft (KB) To 5205.00 ft (KB) (TVD)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 5205.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 30.75 psig @ 5104.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.01 End Date: 2013.11.02

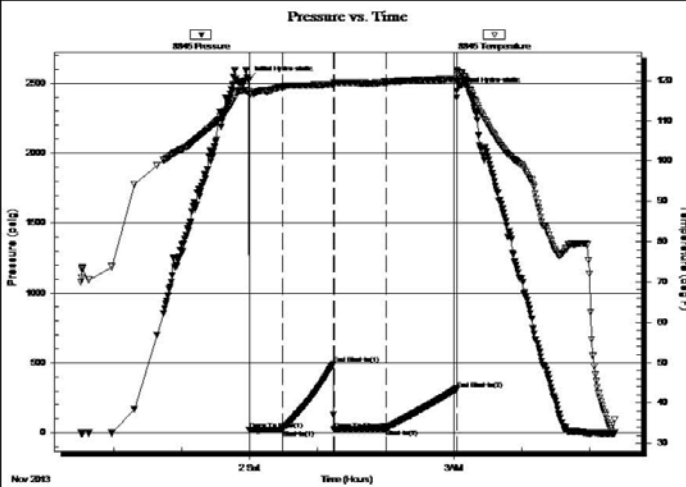
Last Calib.: 2013.11.02

Start Time: 21:31:05 End Time: 05:22:29

Time On Btm: 2013.11.01 @ 23:59:15

Time Off Btm: 2013.11.02 @ 03:02:30

**TEST COMMENT:** IF: 4 1/2" Blow.  
ISI: No Return.  
FF: BOB @ 2 1/2 min.  
FSI: No Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2527.33	117.22	Initial Hydro-static
1	20.14	116.35	Open To Flow (1)
30	21.89	118.42	Shut-In(1)
75	493.83	118.99	End Shut-In(1)
75	23.53	119.30	Open To Flow (2)
121	30.75	119.56	Shut-In(2)
183	312.66	120.44	End Shut-In(2)
184	2443.82	121.82	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
40.00	Mud ( Oil Scum on top) 100m	0.56
0.00	240' GIP	0.00

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Abercrombie Energy, LLC

**35- 29s- 31w Haskell Co.**

10209 W. Central STE2  
Wichita, KS 67212

**Bryant #1-35**

Job Ticket: 54746

**DST#: 4**

ATTN: Keith Reavis

Test Start: 2013.11.03 @ 11:37:00

**GENERAL INFORMATION:**

Formation: **Chester Sands**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:11:15

Time Test Ended: 20:47:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 5338.00 ft (KB) To 5424.00 ft (KB) (TVD)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 5424.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 24.98 psig @ 5339.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.03

End Date: 2013.11.03

Last Calib.: 2013.11.03

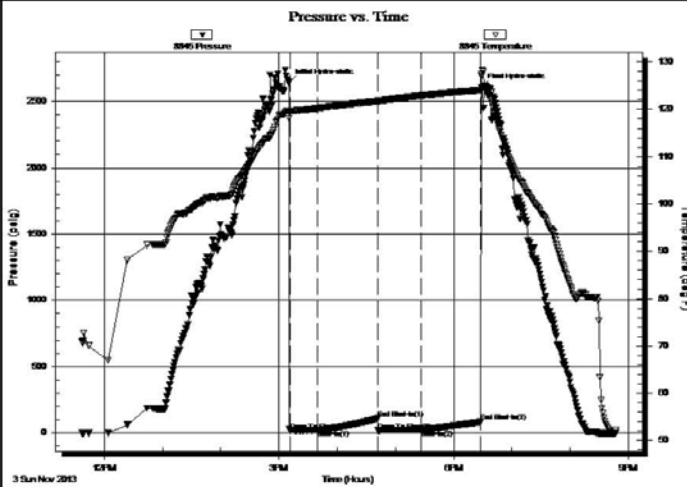
Start Time: 11:37:05

End Time: 20:47:15

Time On Btm: 2013.11.03 @ 15:10:30

Time Off Btm: 2013.11.03 @ 18:28:30

**TEST COMMENT:** IF: 2" Blow.  
ISI: No Return.  
FF: 1" Blow.  
FSI: No Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2641.40	119.74	Initial Hydro-static
1	18.07	119.52	Open To Flow (1)
29	22.09	120.23	Shut-In(1)
92	109.87	121.75	End Shut-In(1)
92	18.77	121.72	Open To Flow (2)
136	24.98	122.91	Shut-In(2)
198	83.25	124.07	End Shut-In(2)
198	2604.40	126.97	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m ( Oil Spots )	0.28

**Gas Rates**

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

\* Recovery from multiple tests



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Abercrombie Energy, LLC

**35- 29s- 31w Haskell Co.**

10209 W. Central STE2  
Wichita, KS 67212

**Bryant #1-35**

Job Ticket: 54747

**DST#: 5**

ATTN: Keith Reavis

Test Start: 2013.11.04 @ 15:25:00

**GENERAL INFORMATION:**

Formation: **St. Louis**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 17:24:30

Time Test Ended: 23:56:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Sam Esparza

Unit No: 64

**Interval: 5510.00 ft (KB) To 5543.00 ft (KB) (TVD)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 5543.00 ft (KB) (TVD)

2842.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 10.00 ft

**Serial #: 8845 Outside**

Press@RunDepth: 20.98 psig @ 5511.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.11.04

End Date: 2013.11.04

Last Calib.: 2013.11.05

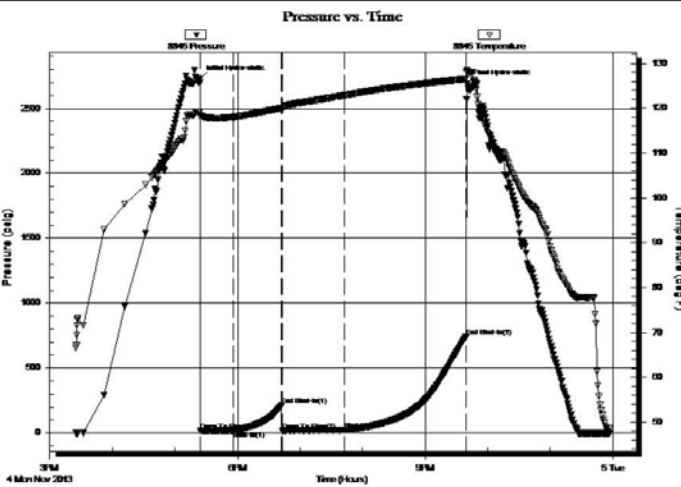
Start Time: 15:25:05

End Time: 23:56:44

Time On Btm: 2013.11.04 @ 17:24:15

Time Off Btm: 2013.11.04 @ 21:40:00

**TEST COMMENT:** IF: 3/4" Blow.  
ISI: No Return.  
FF: 1/2" Blow.  
FSI: No Return.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2728.02	119.26	Initial Hydro-static
1	15.79	118.18	Open To Flow (1)
32	18.11	118.06	Shut-In(1)
78	211.22	120.07	End Shut-In(1)
79	13.22	119.99	Open To Flow (2)
139	20.98	122.91	Shut-In(2)
255	740.12	126.60	End Shut-In(2)
256	2688.96	128.52	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
15.00	Mud 100m ( Oil Scum on Top )	0.21

**Gas Rates**

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

\* Recovery from multiple tests