



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1167154  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

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

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1167154

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  List All E. Logs Run: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

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: <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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	Bryant 1-35
Doc ID	1167154

All Electric Logs Run

Dual Induction
Compensated Density/Neutron PE Log
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Abercrombie Energy, LLC
Well Name	Bryant 1-35
Doc ID	1167154

Tops

Name	Top	Datum
Topeka	3824	-972
Heebner	4162	-1310
Lansing	4274	-1422
Stark Sh	4676	-1824
BKC	4755	-1903
Marmaton	4814	-1962
Pawnee	4920	-2068
Cher Sh	5003	-2151
Morrow Sh	5206	-2355
Chester	5250	-2398
St. Gen	5404	-2552
St. Lou	5514	-2662

Conservation Division  
Finney State Office Building  
130 S. Market, Rm. 2078  
Wichita, KS 67202-3802



Phone: 316-337-6200  
Fax: 316-337-6211  
<http://kcc.ks.gov/>

Mark Sievers, Chairman  
Thomas E. Wright, Commissioner  
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

November 06, 2013

Gary Misak  
Abercrombie Energy, LLC  
10209 W. CENTRAL, STE 2  
WICHITA, KS 67212

Re: ACO1  
API 15-081-22038-00-00  
Bryant 1-35  
NE/4 Sec.35-29S-31W  
Haskell County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

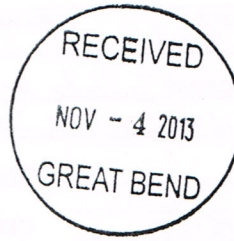
Respectfully,  
Gary Misak

## INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 139424  
Invoice Date: Oct 23, 2013  
Page: 1

Voice: (817) 546-7282  
Fax: (817) 246-3361



Now Includes:



<b>Bill To:</b>
Abercrombie Energy, LLC 5510 Oil Center RD South Great Bend, KS 67530

Customer ID	Field Ticket #	Payment Terms	
Aber	52102	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-01	Liberal	Oct 23, 2013	11/22/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bryant #1-35		
200.00	CEMENT MATERIALS	Class A Common	17.90	3,580.00
26.00	CEMENT MATERIALS	Chloride	64.00	1,664.00
575.00	CEMENT MATERIALS	ALWC	16.50	9,487.50
194.00	CEMENT MATERIALS	Flo Seal	2.97	576.18
874.54	CEMENT SERVICE	Cubic Feet	2.48	2,168.86
1,666.80	CEMENT SERVICE	Ton Mileage	2.60	4,333.68
1.00	CEMENT SERVICE	Surface	2,213.75	2,213.75
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Head Rental	275.00	275.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	EQUIPMENT SALES	8-5/8 Guide Shoe	250.70	250.70
1.00	EQUIPMENT SALES	8-5/8 AFU Insert	239.00	239.00
5.00	EQUIPMENT SALES	8-5/8 Centralizer	37.50	187.50
1.00	EQUIPMENT SALES	8-5/8 Basket	226.50	226.50
1.00	EQUIPMENT SALES	8-5/8 Top Plug	76.26	76.26
1.00	CEMENT SUPERVISOR	Kirby Harper		
1.00	EQUIPMENT OPERATOR	Heriberto Valenzuela		
1.00	OPERATOR ASSISTANT	Jaime Torres		

VENDOR NUMBER \_\_\_\_\_  
 VOUCHER NUMBER \_\_\_\_\_  
 DATE OF RECEIPT \_\_\_\_\_  
 QUANTITY NUMBER \_\_\_\_\_ AMOUNT \_\_\_\_\_  
 1352062  
 BRYANT #1-35  
 CEMENT SURFACE CSG  
 APPROVAL \_\_\_\_\_  
 VERIFIED ACCURACY \_\_\_\_\_

Subtotal	25,823.43
Sales Tax	1,083.13
Total Invoice Amount	26,906.56
Payment/Credit Applied	
<b>TOTAL</b>	<b>26,906.56</b>

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 6,210.86

ONLY IF PAID ON OR BEFORE  
Nov 17, 2013





# ALLIED OIL & GAS SERVICES, LLC 052102

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Liberal 21



DATE <u>10-23-13</u>	SEC. <u>35</u>	TWP. <u>29S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>0100</u>	JOB FINISH <u>0300</u>
LEASE <u>Bryant</u>	WELL # <u>1-35</u>		LOCATION <u>Sublette KS - 8 E on RR 190</u>		COUNTY <u>Haskell</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)			<u>IN - 6 E - 5 into</u>				

CONTRACTOR Val #1 OWNER \_\_\_\_\_

TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 1618 ft  
 CASING SIZE 8 3/8 24 DEPTH 1618-5 ft  
 TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 DRILL PIPE \_\_\_\_\_ DEPTH \_\_\_\_\_  
 TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_  
 PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_  
 MEAS. LINE \_\_\_\_\_ SHOE JOINT 42.68 ft  
 CEMENT LEFT IN CSG. 2.7 BBL  
 PERFS. \_\_\_\_\_  
 DISPLACEMENT 97.5

CEMENT  
 AMOUNT ORDERED 575 sk ALWC: Type 1 - Class A  
3% CC, 1/4" Flo Seal  
200 sk Class A - 3% CC, 1/4" Flo Seal

EQUIPMENT  
 PUMP TRUCK CEMENTER Kirby H  
#530-484 HELPER Heriberto V  
 BULK TRUCK  
#457 DRIVER Jaime T  
 BULK TRUCK  
 # \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>200 sk</u>	@ <u>17.90</u>	<u>3,580.00</u>
POZMIX		@	
GEL		@	
CHLORIDE	<u>26 sk</u>	@ <u>64.00</u>	<u>1,664.00</u>
ASC ALWC	<u>575 sk</u>	@ <u>16.50</u>	<u>9,487.50</u>
FLO SEAL	<u>194 LB</u>	@ <u>2.97</u>	<u>576.18</u>
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>874.54 ft<sup>3</sup></u>	@ <u>2.44</u>	<u>2,126.88</u>
MILEAGE	<u>166.80 tm</u>	@ <u>2.60</u>	<u>4,333.28</u>
TOTAL			<u>21,810.21</u>

REMARKS:

SERVICE

DEPTH OF JOB	<u>1618 ft</u>		
PUMP TRUCK CHARGE			<u>2213.75</u>
EXTRA FOOTAGE		@	
MILEAGE Heavy	<u>45 MI</u>	@ <u>7.70</u>	<u>346.50</u>
MANIFOLD Head	<u>1 Day</u>	@ <u>275.00</u>	<u>275.00</u>
Light Mileage	<u>45 MI</u>	@ <u>4.40</u>	<u>198.00</u>
		@	

TOTAL 3,033.25

CHARGE TO: Abercrombie Energy  
 STREET \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

Guide Shoe	<u>1 EA</u>	@ <u>250.00</u>	<u>250.00</u>
AFU Insert	<u>1 EA</u>	@ <u>239.00</u>	<u>239.00</u>
Centralizers	<u>5 EA</u>	@ <u>37.50</u>	<u>187.50</u>
Basket	<u>1 EA</u>	@ <u>226.50</u>	<u>226.50</u>
Top Plug	<u>1 EA</u>	@ <u>76.25</u>	<u>76.25</u>
TOTAL			<u>979.96</u>

To: Allied Oil & Gas Services, LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor, I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) \_\_\_\_\_  
 TOTAL CHARGES 25,823.43  
 DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
Net - 19,612.51

PRINTED NAME Walter Kincaid  
 SIGNATURE [Signature]

COPY



**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	

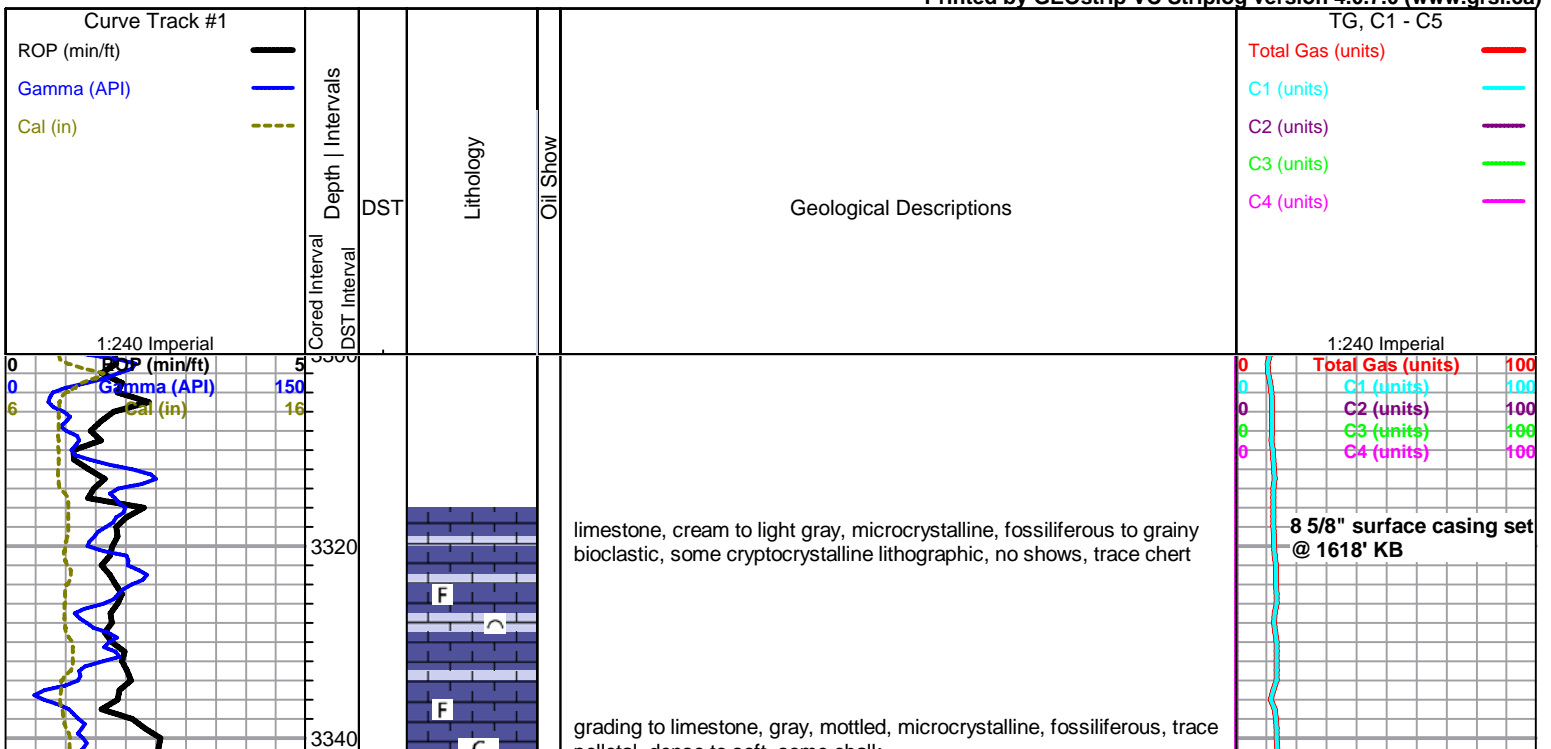
### ACCESSORIES

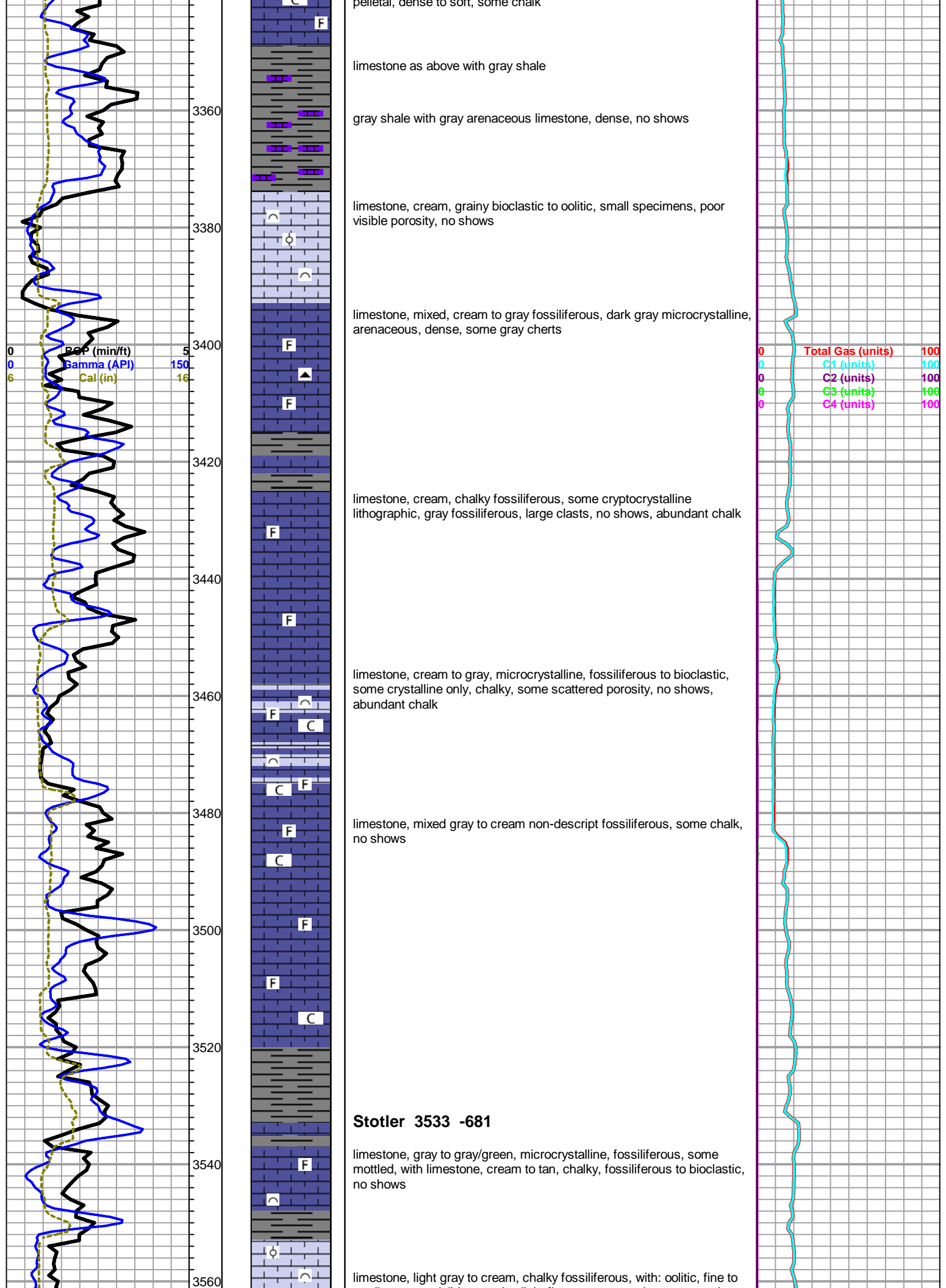
<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
- Argillaceous	^ Bioclastic or Fragmental	Limestone	C Chalky
▲ Chert, dark	∩ Coral	Sandstone	L Lithogr
∠ Dolomitic	F Fossils < 20%	Shale	
P Pyrite	⊕ Oolite	green shale	
• Silty	⊗ Pellets	red shale	
△ Chert White	⊕ Oomoldic	carb shale	
■ Argillaceous/Shale			

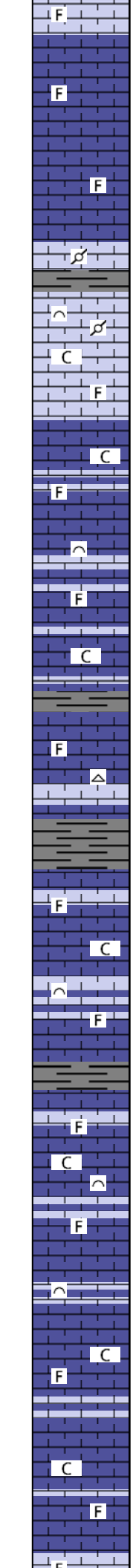
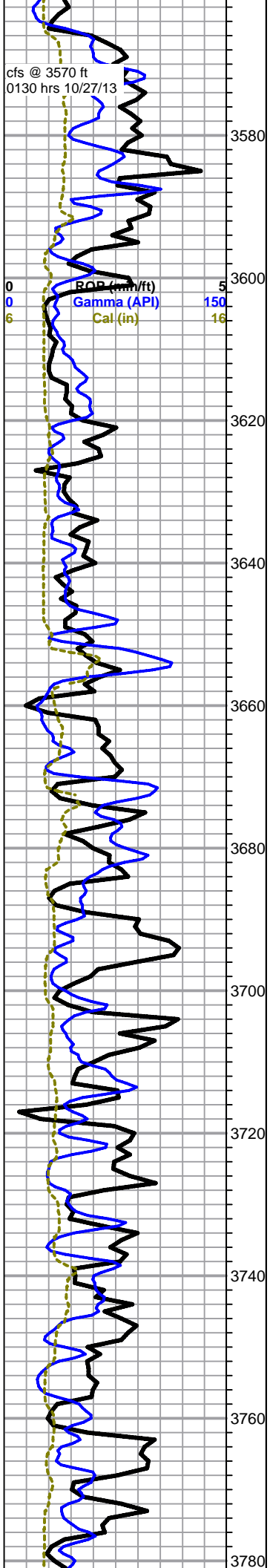
### OTHER SYMBOLS

<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

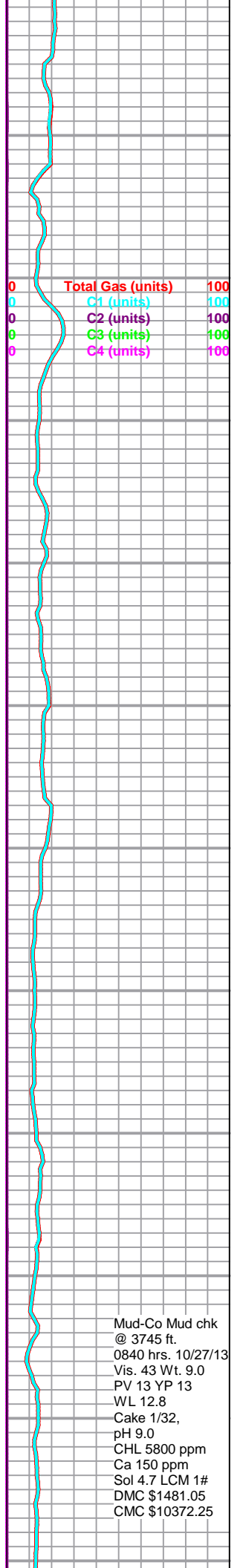
limestone, cream to light gray, micro-cryptocrystalline, fossiliferous, some bioclastic, poor overall visible porosity, abundant chalk, no shows

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

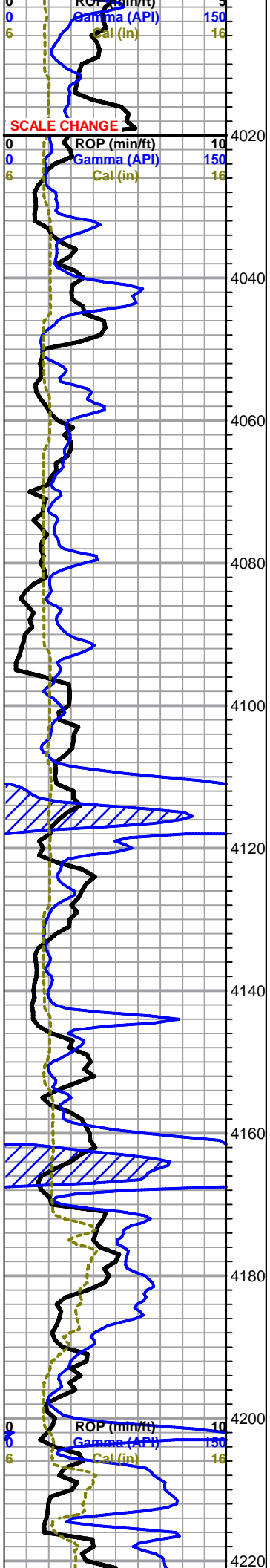
limestone, grades to white to light gray, microcrystalline, fossiliferous, some very chalky, poor visible porosity, scattered light gray cherts



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







limestone, light gray to cream, some white, fossiliferous to bioclastic, chalky, flood chalk in sample, 20-30%, no shows

limestone, gray to light gray and cream, microcrystalline, fossiliferous to bioclastic, chalky to dense, some scattered porosity, no shows, abundant chalk

limestone as above

limestone, mixed non-descript fossiliferous, with abundant chalk, scattered gray fossiliferous chert

shale, black carbonaceous

limestone, light gray, microcrystalline, fossiliferous, soft, chalky, appx 50% chalk in samples, poor visible porosity, no shows

limestone, gray, mottled, fossiliferous, chalky to dense, no shows

**Heebner 4162 -1310**

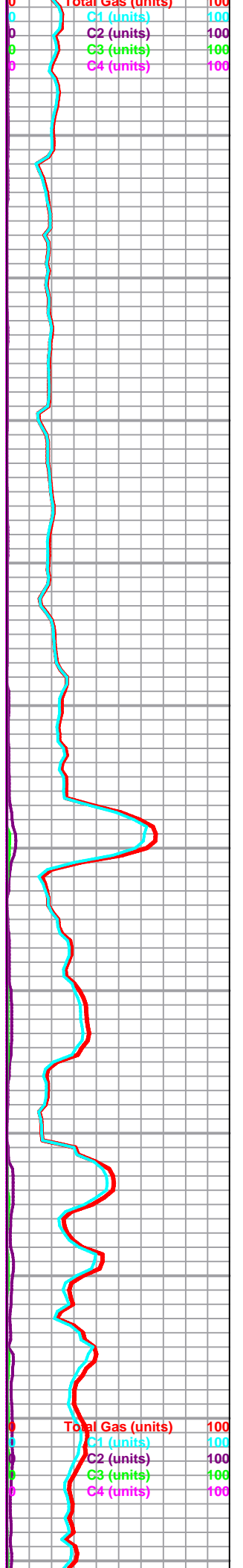
shale, black carbonaceous

soft gray and green shales, mushy

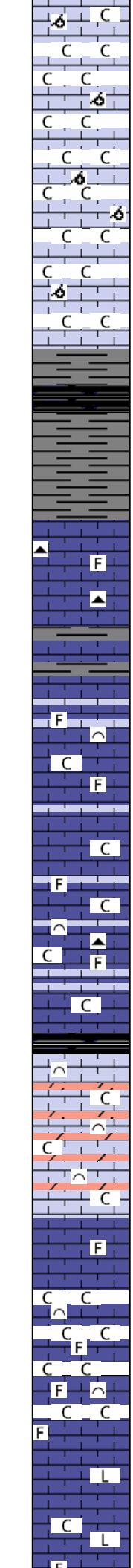
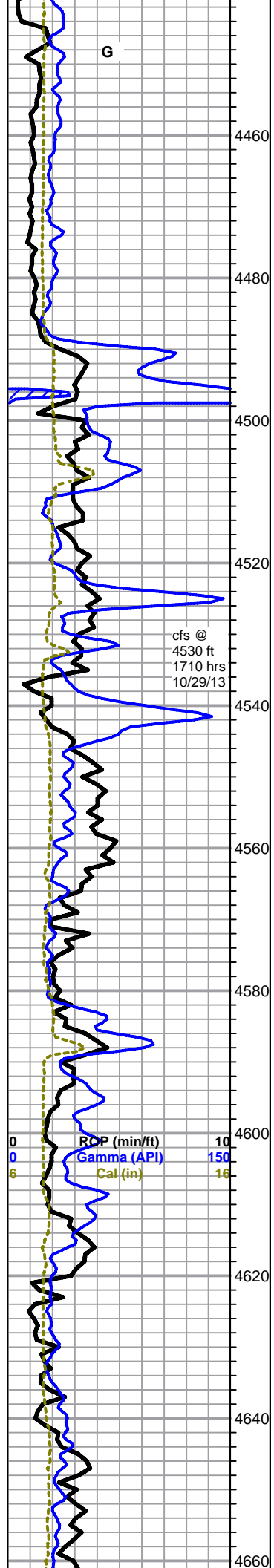
4210 sample, flood chert, white to cream with yellow tint, fossiliferous, sharp, fresh, no shows

grades to limestone, light gray, microcrystalline, fossiliferous, chalky in part, some secondary calcite seams, poor visible porosity, no shows

**Douglas 4204 -1352**







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

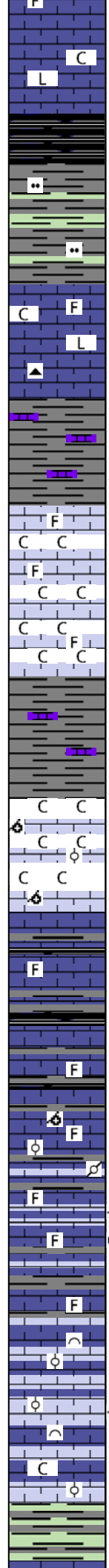
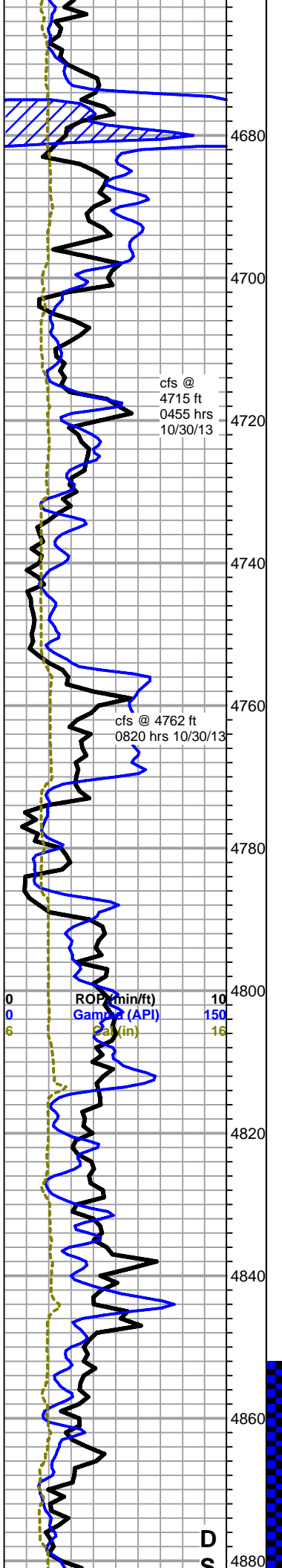
limestone, gray to dark gray, mostly cryptocrystalline, fossiliferous, some bioclastic, no visible porosity, light gray chalky lithographic, flood chalk, 30-40% in samples, no shows

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  
N2 (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

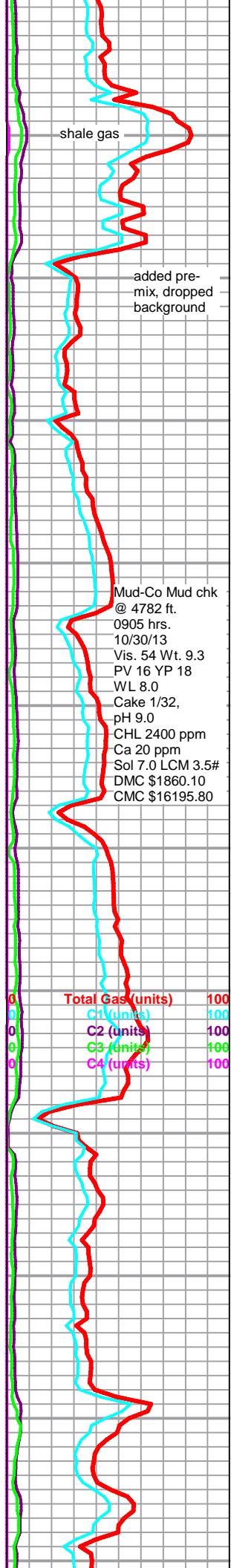
**Marmaton 4817 -1965**

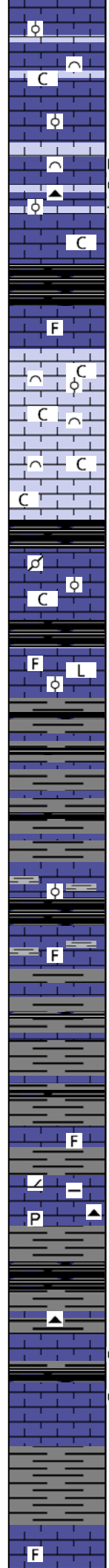
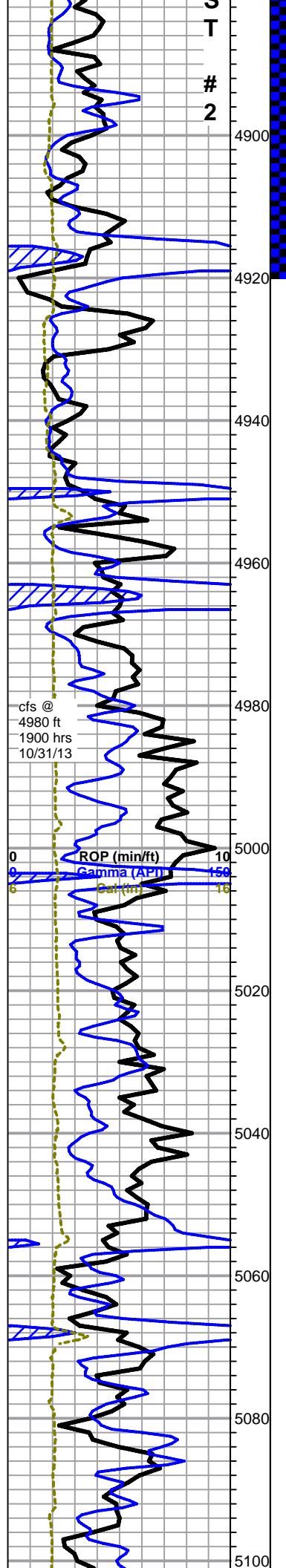
limestone, mixed, gray to tan, crypto-microcrystalline, fossiliferous to oolitic/pelletal, trace dense oomoldic, very dense to chalky, no visible porosity, no shows

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





to bioclastic, some lithographic, poor visible porosity, questionable gas on break, no show free oil, odor or stain, pale even fluorescence, trace chert, carrying abundant gray/green shales

Abercrombie Bryant 1-35 dst 2\_Page\_1.jpg

limestones as above, few pieces bioclastic with good green spotty fluorescence, some pinpoint porosity, bleeds gas and light oil droplets on break, good odor on break, no odor in wet cup, some dark gray chert, moderate chalk

shale, black carbonaceous

**Pawnee 4924 -2072**  
 limestone, gray, cryptocrystalline, dense, fossiliferous, no show

limestone, gray and cream, grainy bioclastic and micro-oolitic, chalky, some pinpoint porosity, some dense compact bioclastic, trace light gray and clear opaque chert, abundant chalk, no shows or fluorescence

as above, increase in chalk and chert

limestone, tan and gray, pelletal to flattened oolitic, chalky to dense, poor visible porosity, no shows, with gray frosted fossiliferous cherts, some slight weathered, no fluorescence

shale, black carbonaceous

**Fort Scott 4972 -2120**  
 limestone, mixed, gray to cream, cryptocrystalline, lithographic to arenaceous, with mixed gray to tan fossiliferous, flattened oolitic, dense to chalky, no visible porosity or shows, very faint even fluorescence

gray and black argillaceous to dense limy shales, with limestone, light gray arenaceous to dense gray lithographic

as above, influx of brown oolitic limestone, dense, no porosity, some scattered chert

**Cherokee 5007 -2155**

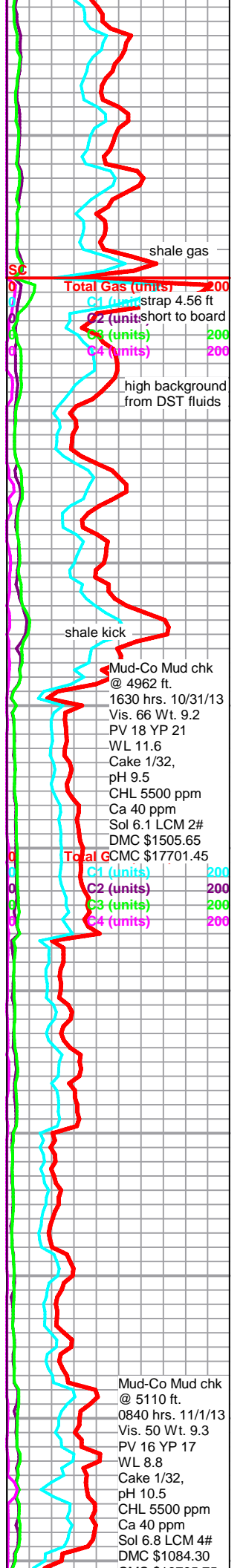
mostly dark gray gritty argillaceous shales, heavy gray wash, mixed limestones as above

limestone, light gray, dolomitic in part, microcrystalline, fossiliferous, argillaceous, no visible porosity, some pyritic, no shows, scattered brown cherts

shales, black and gray, limestone and chert as above

limestone, tan to brown, cryptocrystalline, fossiliferous, dense, limestone, light gray, microcrystalline, fossiliferous, chalky to crystalline texture, poor visible porosity, no stain, few specimens small gas bubbles and scaly oil sheen on break, poor fluorescence, no cut, fleeting odor in wet cup

limestone, light to dark gray and light brown, micro-cryptocrystalline, fossiliferous, grainy in part, chalky in part, poor visible porosity, no shows



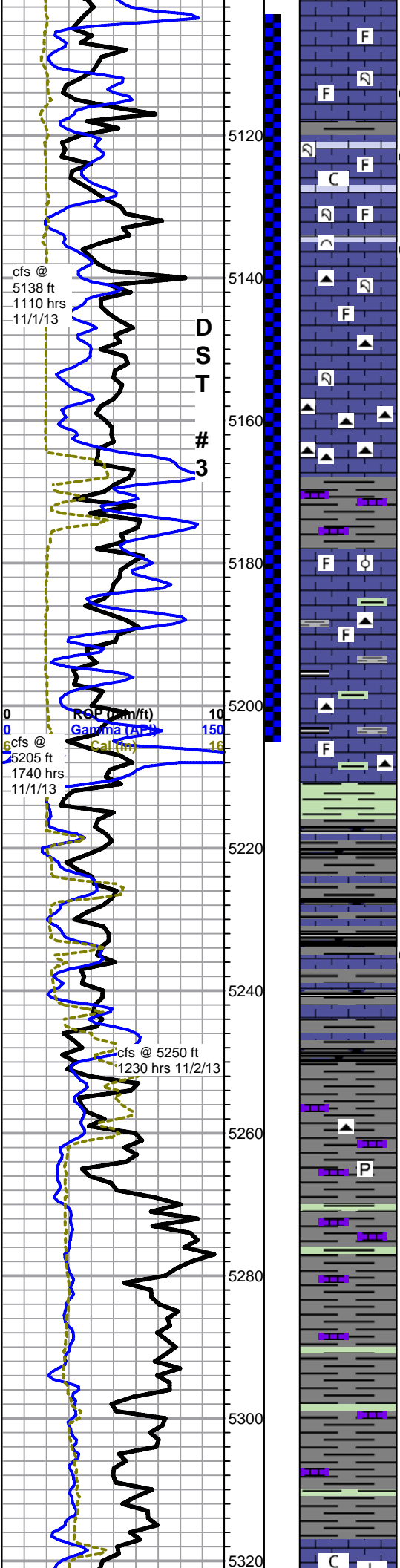
cfs @ 4980 ft 1900 hrs 10/31/13

ROP (min/ft) 10  
 Gamma (API) 150  
 Cal (in) 16

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

Total GCMC \$17701.45  
 C1 (units) 200  
 C2 (units) 200  
 C3 (units) 200  
 C4 (units) 200





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)

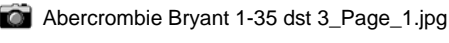
6160 sample - mixed cream to gray limestones, fossiliferous, abundant coral frags and fans, poor visible porosity no shows, only some light mineral fluorescence

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 limy 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, limy 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

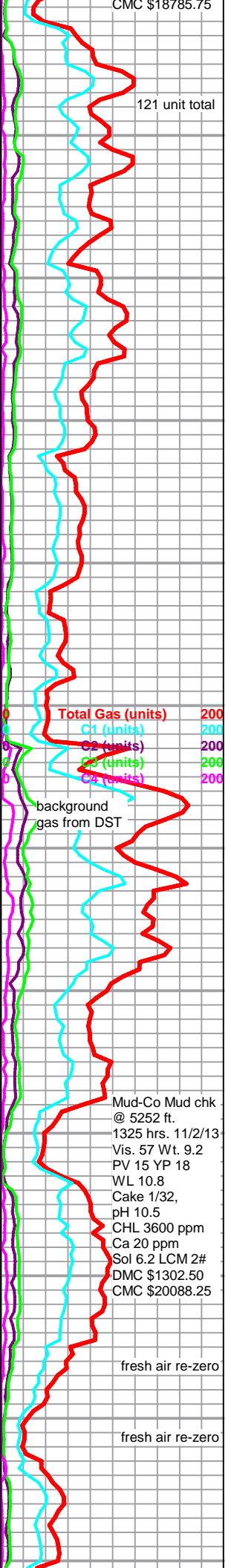
**Chester 5252 -2400**

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



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

121 unit total

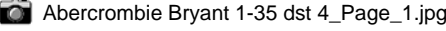
stratigraphic to slightly fossiliferous, abundant chalk and light gray  
mushy clays in samples, no shows

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



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

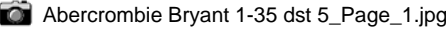
### St. Gen 5414 -2562

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



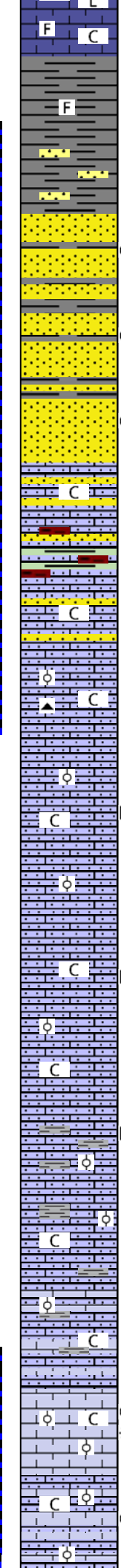
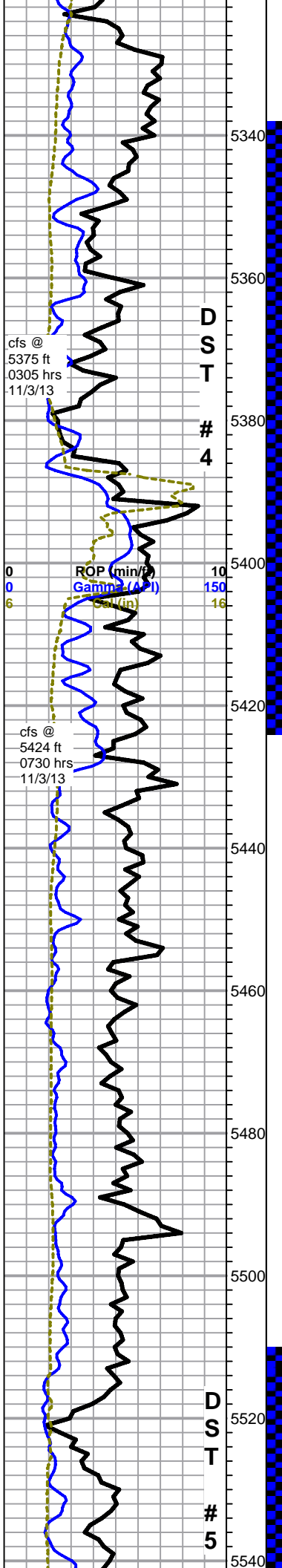
5510 sample, flood shale as above, almost all shale, some pyrite, some  
light green shale - some sandy and oolitic limestone a.a.

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

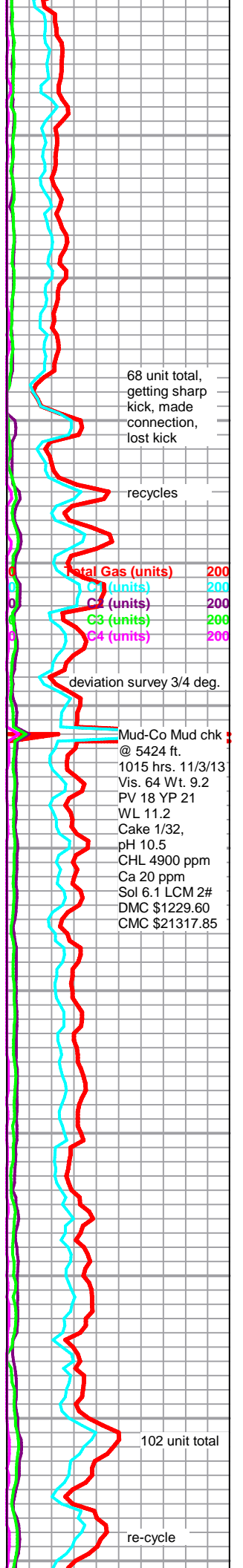
### St. Louis "A" 5516 -2664

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

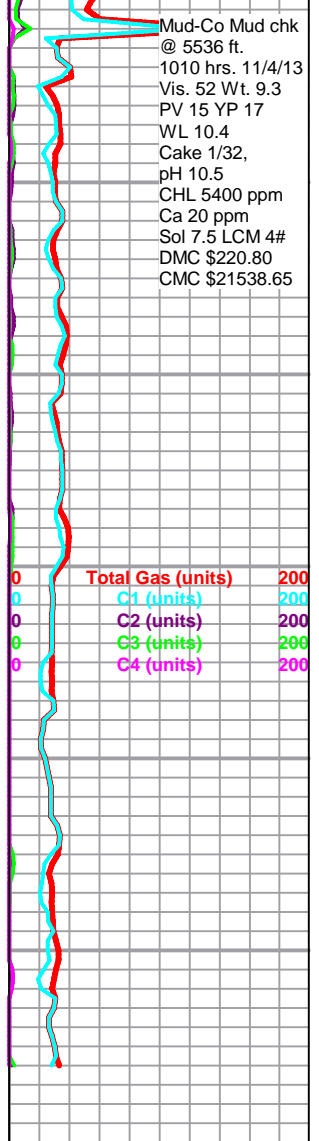
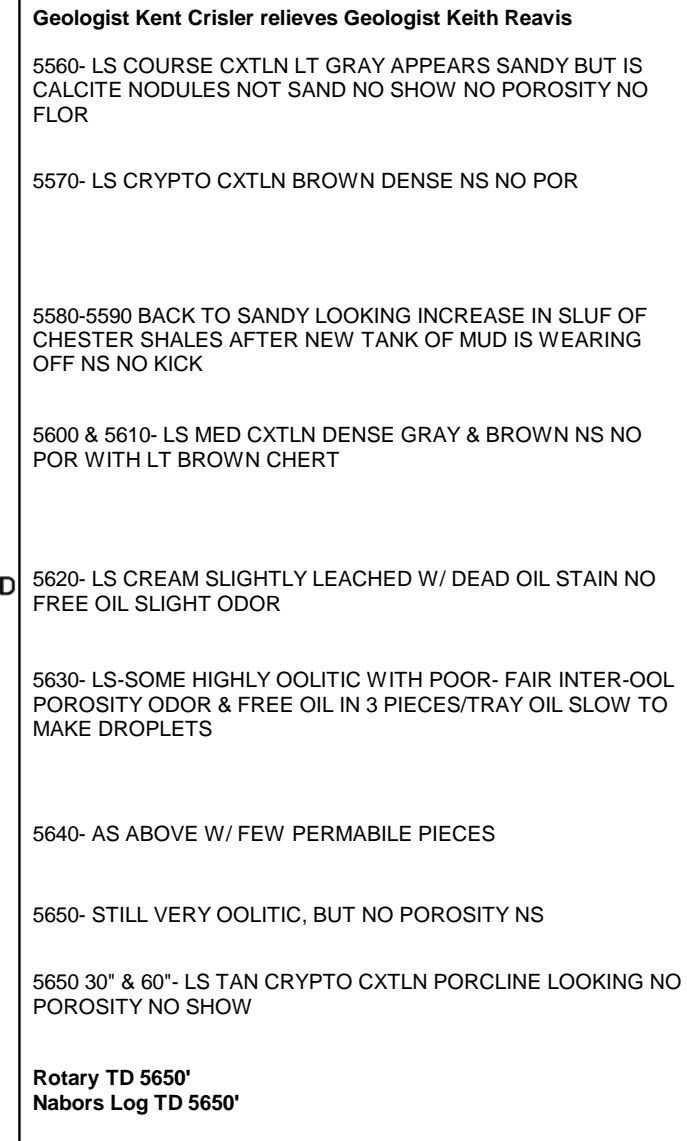
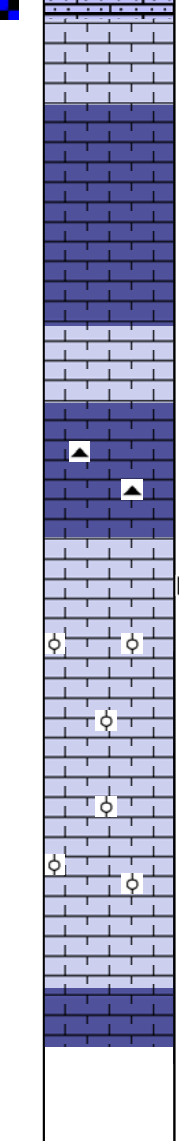
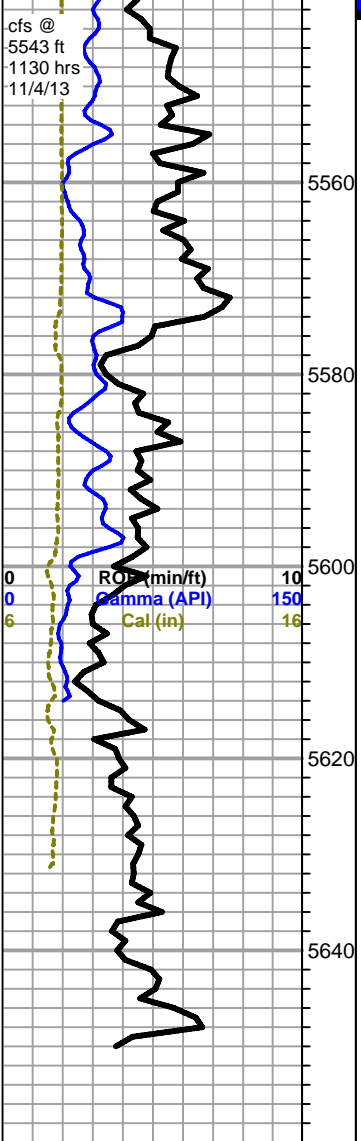
5650- STILL VERY OOLITIC, BUT NO POROSITY NS

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

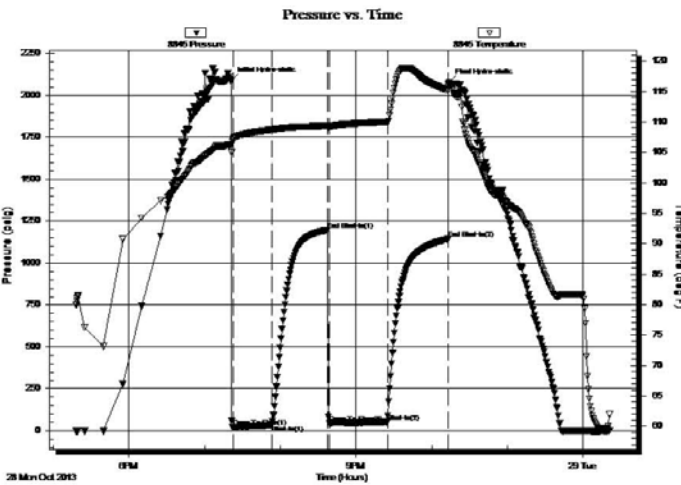
Start Time: 17:18:05

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)**

Reference Elevations: 2852.00 ft (KB)

Total Depth: 4920.00 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: 1361.82 psig @ 4853.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.31

End Date: 2013.10.31

Last Calib.: 2013.10.31

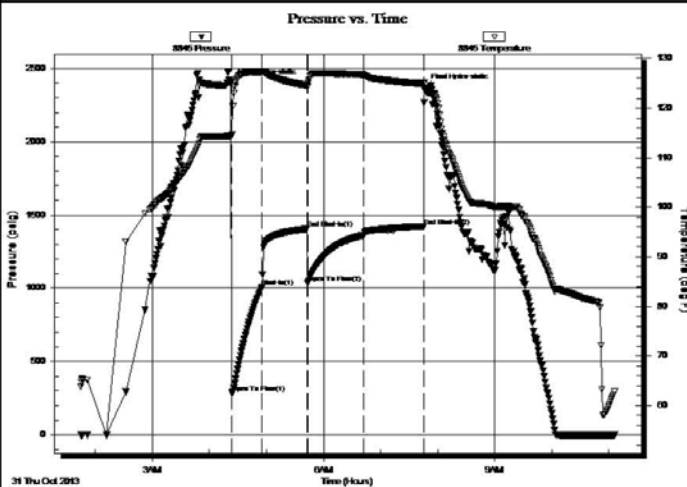
Start Time: 01:45:05

End Time: 11:06:15

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

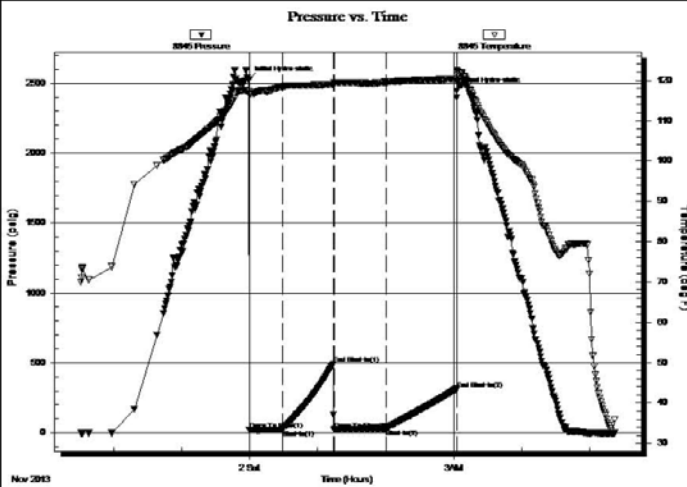
Last Calib.: 2013.11.02

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.  
IS: No Return.  
FF: BOB @ 2 1/2 min.  
FS: 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)**

Total Depth: 5424.00 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: 24.98 psig @ 5339.00 ft (KB)

Start Date: 2013.11.03

End Date: 2013.11.03

Capacity: 8000.00 psig

Last Calib.: 2013.11.03

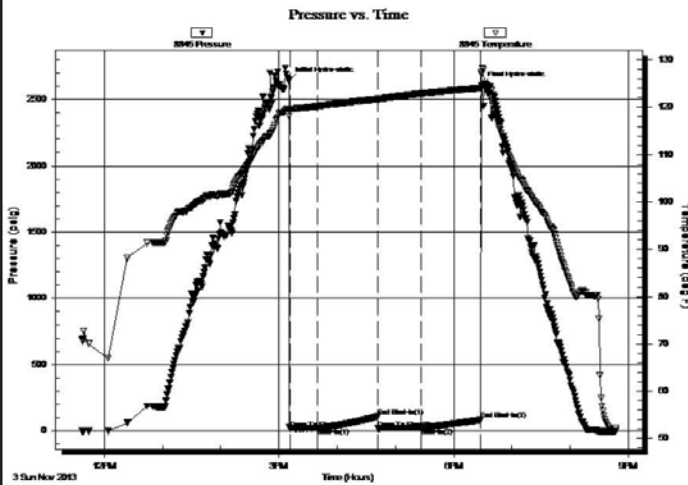
Start Time: 11:37:05

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

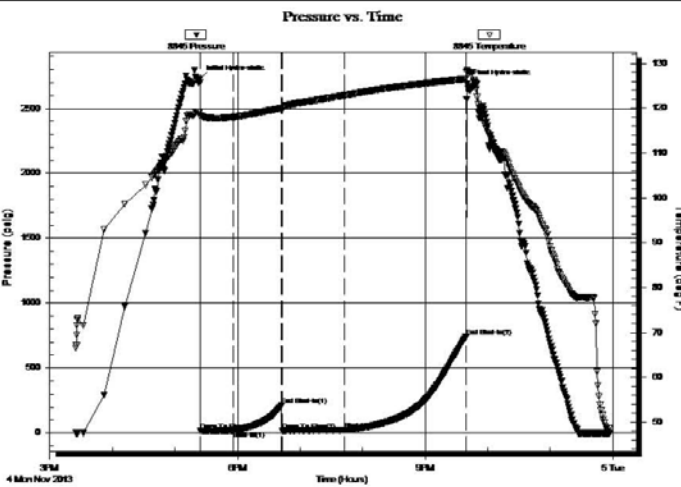
Start Time: 15:25:05

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

# ALLIED OIL & GAS SERVICES, LLC 059081

Federal Tax I.D.# 20-5975804

REMIT TO P.O. BOX 93999  
SOUTHLAKE, TEXAS 76092

SERVICE POINT:  
Guert Bend

DATE <u>10-25-12</u>	SEC. <u>13</u>	TWP. <u>19S</u>	RANGE <u>26W</u>	CALLED OUT	ON LOCATION	JOB START <u>6:00 PM</u>	JOB FINISH <u>7:00 PM</u>
LEASE <u>Ayers</u>	WELL# <u>2-13</u>	LOCATION <u>Becker S South / East</u>	COUNTY <u>Wes</u>	STATE <u>TX</u>			
OLD OR <u>(NEW)</u> (Circle one)		<u>1/2 North East 1/4 North Umland</u>		<u>1.00</u>	<u>6.00</u>		

CONTRACTOR Val Rio 2  
TYPE OF JOB Pipe Job *Production*  
HOLE SIZE 7 7/8 T.D.  
CASING SIZE 5 1/2 DEPTH 1916  
TUBING SIZE DEPTH  
DRILL PIPE DEPTH  
TOOL DEPTH  
PRES. MAX MINIMUM  
MEAS. LINE SHOE JOINT 42.80  
CEMENT LEFT IN CSG. 42.80  
PERFS.  
DISPLACEMENT 44.50 BBLs

OWNER Abercrombie Energy  
CEMENT  
AMOUNT ORDERED 3005x 65/35 + 6% Gel + 1/2 4lb  
1505x Asc + 2% Gel + 10% Salt + 5% Gilsomite  
COMMON @  
POZMIX @  
GEL 3 @ 23.70 70.20  
CHLORIDE @  
ASC 150 @ 20.90 3.135.00  
3005x 65/35 + 6% Gel @ 16.50 4.950.00  
Gilsomite 750 @ .94 705.00  
plus salt 75 @ 2.97 222.75  
ASF 500 @ 1.27 635.00  
HANDLING 525.65 @ 2.48 1.303.61  
MILEAGE 22.56 x 26 x 2.60 1.525.05  
586.55 TOTAL 12.576.61

EQUIPMENT  
PUMP TRUCK CEMENTER Wayne Davis 1  
# 346 HELPER Kevin Eddy 2  
BULK TRUCK  
# 344/170 DRIVER Tim Dickson 1  
BULK TRUCK  
# 482/112 DRIVER Kevin Weighous 3

REMARKS:  
Pipe on Bottom Break Circulation  
with Ris mud Drop Ball  
Pump Ball Threw circulate / hour  
Run 500 Gallon ASF Run 3 BBLs + ash  
Behind Plus Mouse with 20% Rat  
3005x mix 2505x 65/35 + 6% Gel + 1/2 4lb  
mix 1505x Asc + 2% Gel + 10% Salt + 5% Gilsomite  
Perf wash pump lines Release Plus  
Displace 44.50 BBLs hand plus at 110 psi  
lost circulation

CHARGE TO: Abercrombie Energy  
STREET \_\_\_\_\_  
CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

SERVICE  
DEPTH OF JOB 1916  
PUMP TRUCK CHARGE 2,213.00  
EXTRA FOOTAGE @  
MILEAGE Hum 26 @ 7.70 200.20  
MANIFOLD @  
Hum 26 @ 4.40 114.40  
wait Time 2 hrs @ 440.00 880.00

TOTAL 3,408.35

PLUG & FLOAT EQUIPMENT  
2 Baskettt @ 394.27 788.58  
9 Centrifuges @ 57.33 515.97  
Tripex Shoe @ 1340.00  
Latch Down - Bottle @ 324.09 324.09

TOTAL 2,968.64

To: Allied Oil & Gas Services, LLC.  
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME \_\_\_\_\_  
SIGNATURE Amy Wind

SALES TAX (if Any) 801.14  
TOTAL CHARGES 18,953.60  
30% 5,686.08  
DISCOUNT \_\_\_\_\_ IF PAID IN 30 DAYS  
13,267.52

RECEIVED  
NOV-6-12



# ALLIED

OIL & GAS SERVICES, LLC

PO Box 93999  
Southlake, TX 76092

Voice: (817) 546-7282  
Fax: (817) 246-3361



# INVOICE

Invoice Number: 139674  
Invoice Date: Nov 6, 2013  
Page: 1

**Bill To:**  
Abercrombie Energy, LLC  
5510 Oil Center RD South  
Great Bend, KS 67530

COPY

Now Includes:



Customer ID	Field Ticket #	Payment Terms	
Aber	52018	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS1-03	Liberal	Nov 6, 2013	12/6/13

Quantity	Item	Description	Unit Price	Amount
1.00	WELL NAME	Bryan #1-35 <u>BRYANT</u>		
96.00	CEMENT MATERIALS	Class A Common	17.90	1,718.40
64.00	CEMENT MATERIALS	Pozmix	9.35	598.40
5.50	CEMENT MATERIALS	Gel	23.40	128.70
165.50	CEMENT SERVICE	Cubic Feet	2.48	410.44
321.90	CEMENT SERVICE	Ton Mileage	2.60	836.94
1.00	CEMENT SERVICE	Plug to Abandon	1,250.00	1,250.00
45.00	CEMENT SERVICE	Pump Truck Mileage	7.70	346.50
1.00	CEMENT SERVICE	Manifold Drill Pin Rental	140.00	140.00
45.00	CEMENT SERVICE	Light Vehicle Mileage	4.40	198.00
1.00	CEMENT SUPERVISOR	Lenny Baeza		
1.00	OPERATOR ASSISTANT	Ernesto Smith		
1.00	OPERATOR ASSISTANT	Gregory Randall		
		VENDOR NUMBER	_____	
		VOUCHER NUMBER	_____	
		DATE OF RECEIPT	_____	
		CHECK NUMBER	_____	
		AMOUNT	_____	
		<u>1352084</u>	_____	
		<u>BRYANT #1-35</u>	_____	
		<u>CEMENT TO PLUG</u>	_____	
		APPROVAL	_____	
		VERIFIED ACCURACY	_____	

ALL PRICES ARE NET, PAYABLE 30 DAYS FOLLOWING DATE OF INVOICE. 1 1/2% CHARGED THEREAFTER. IF ACCOUNT IS CURRENT, TAKE DISCOUNT OF

\$ 1,406.85

ONLY IF PAID ON OR BEFORE

Dec 1, 2013

Subtotal	5,627.38
Sales Tax	410.80
Total Invoice Amount	6,038.18
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,038.18</b>