



KANSAS CORPORATION COMMISSION 1062691  
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 # 6039  
Name: L. D. Drilling, Inc.  
Address 1: 7 SW 26TH AVE  
Address 2: \_\_\_\_\_  
City: GREAT BEND State: KS Zip: 67530 + 6525  
Contact Person: L. D. DAVIS  
Phone: ( 620 ) 793-3051  
CONTRACTOR: License # 5822  
Name: Val Energy, Inc.  
Wellsite Geologist: KEITH REAVIS  
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 #: \_\_\_\_\_  
08/14/2011    08/25/2011    09/01/2011  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-097-21704-00-00  
Spot Description: \_\_\_\_\_  
SW NW NW Sec. 34 Twp. 27 S. R. 18  East  West  
990 Feet from  North /  South Line of Section  
330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Kiowa  
Lease Name: ANTHONY Well #: 5-34  
Field Name: GREENSBURG  
Producing Formation: ARBUCKLE  
Elevation: Ground: 2195 Kelly Bushing: 2207  
Total Depth: 5600 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 480 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: 6400 ppm Fluid volume: 0 bbls  
Dewatering method used: Evaporated  
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: Deanna Gerrard Date: 09/07/2011



1062691

Operator Name: L. D. Drilling, Inc. Lease Name: ANTHONY Well #: 5-34  
 Sec. 34 Twp. 27 S. R. 18  East  West County: Kiowa

**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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Sample  Name Top Datum Attached Attached Attached
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CASING RECORD <input checked="" 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
Attached	Attached	Attached	Attached	Attached	Attached	Attached	Attached

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
		2000 gal 20% Acid	

TUBING RECORD:		Size: <u>2.875</u>	Set At: <u>5177.56</u>	Packer At: <u>5177.56</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>09/02/2011</u>		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>Applying for SWD to KCC</u>			
Estimated Production Per 24 Hours	Oil Bbbls.	Gas Mcf	Water Bbbls.	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 checked="" 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 (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ANTHONY 5-34
Doc ID	1062691

Tops

Tops		
TOPEKA	3606	-1399
HEEBNER	4041	-1834
DOUGLAS	4078	-1871
LANSING	4204	-1997
LANSING B	4232	-2025
STARK SHALE	4502	-2295
BASE KANSAS CITY	4588	-2381
PAWNEE	4685	-2478
CHEROKEE	4722	-2515
KINDERHOOK SH	4784	-2577
LOWER KIND SAND	4809	-2602
VIOLA	4874	-2667
SIMPSON	5074	-2867
ARBUCKLE	5174	-2967

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	ANTHONY 5-34
Doc ID	1062691

Casing

SURFACE	12.25	8.625	24	480	A-CONN	175	
SURFACE - CONT	12.25	8.625	24	480	COMMON	175	Gel, CC, CF
PRODUC TION	7.875	5.5	15.5	5227	A SERV LITE	200	
PRODUC TION - CONT	7.875	5.5	15.5	5227	AA-2	150	Salt, CF, Gilsonite



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 04689 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <u>8-15-2011</u> DISTRICT <u>PRATT, Ks.</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>LD DRILLING, INC.</u>		LEASE <u>ANTHONY</u> WELL NO. <u>5-34</u>							
ADDRESS		COUNTY <u>KIOWA</u> STATE <u>Ks.</u>							
CITY STATE		SERVICE CREW <u>LESLEY, LAWRENCE, MCGRAW</u>							
AUTHORIZED BY <u>LD DAVIS</u>		JOB TYPE: <u>CNW - 8 5/8" S.P.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<u>19870</u>	<u>1.5</u>						<u>8-15-11</u>		<u>7:00</u>
<u>1987-19842</u>	<u>1.5</u>					ARRIVED AT JOB		AM	<u>4:30</u>
<u>19159-21010</u>	<u>1.5</u>					START OPERATION		AM	<u>7:00</u>
						FINISH OPERATION		AM	<u>2:30</u>
						RELEASED		AM	<u>7:00</u>
						MILES FROM STATION TO WELL			<u>30</u>

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: [Signature]  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
PP101	A-CON/L END	SK	175		3,150.00
PP100	COMMON	SK	175		2,800.00
CC102	CELL FLAKE	lb	88.5		325.50
CC104	CALCIUM CHLORIDE	lb	990		1,039.50
CC200	CEMENT GEL	lb	320		82.50
PE105	TOP RUBBER CNT. PLUG, 8 5/8"	EA	1		235.00
E100	PICKUP MILEAGE	MI	30		127.50
E101	HEAVY EQUIPMENT MILEAGE	MI	60		420.00
E113	BULK DELIVERY CHARGE	TM	495		712.00
PE200	DEPTH CHARGE; 0-500'	HR	1-4		1,000.00
PE240	BLENDED SERVICE CHARGE	SK	350		410.00
PE504	PLUG CONTAINER CHARGE	JOB	1		250.00
S003	SERVICE SUPERVISOR	EA	1		175.00

SUB TOTAL 8,592.90

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		

SERVICE REPRESENTATIVE [Signature] THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: [Signature]  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_





**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 04723 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 8.26.11		DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>		PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/>		CUSTOMER ORDER NO.:	
CUSTOMER: L.D. Drilling				LEASE: Anthony				WELL NO. 5-20	
ADDRESS:				COUNTY: Kiowa		STATE: KS			
CITY:				STATE:		SERVICE CREW: Orlando Lawrence, Mcbrow			
AUTHORIZED BY:				JOB TYPE: CNN-5 1/2 L-5					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED: 8-26-11 9:00			
27283	1					ARRIVED AT JOB: 7:30			
14842-19889	1					START OPERATION: 1:00			
15726-19860	1					FINISH OPERATION: 2:00			
						RELEASED: 3:00			
						MILES FROM STATION TO WELL: 30			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP106	Aserv Lite	SK	150		195000	
CP108	AA2 Cement	SK	150		255000	
CP106	Aserv Lite	SK	50		65000	
CC102	Cellulose	Lb	88		32560	
CC105	C-41-P	Lb	36		14400	
CC111	Salt	Lb	679		33950	
CC129	FLA-322	Lb	71		53250	
CC201	Gilsonite	Lb	750		50250	
CP107	Latch Down Plug & Backer	ea	1		40000	
CP1001	Cementing Packer Shoe 5 1/2"	ea	1		370000	
CP1651	Turbolizer 5 1/2"	ea	6		66000	
CP1901	Basket 5 1/2"	ea	1		29000	
CC151	Mud Slush	Gal	1000		86000	
E103	Pickup Mileage	mi	30		12750	
E101	Heavy Equipment Mileage	mi	60		42000	
E113	Bulk Delivery	Tb	474		25840	
CE206	Depth Charge 5001-6000'	ea	1		237000	
CE240	Cement Service Charge	SK	350		45000	
CE504	Plug Container	ea	1		25000	
5003	Service Super Visor	ea	1		17500	
					SUB TOTAL	142375
CHEMICAL / ACID DATA:						
SERVICE & EQUIPMENT %TAX ON \$						
MATERIALS %TAX ON \$						
					TOTAL	

SERVICE REPRESENTATIVE: <i>Steve Orlando</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>L.D. Davis</i>
FIELD SERVICE ORDER NO. _____	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer	L.D. Drilling	Lease No.		Date	8-26-11
Lease	Anthony	Well #	5-34		
Fluid Order #	4723	Station	Pratt	Casing	5/2
Type Job	CNW-5/2 L.S.	Depth	5227	County	Kiowa
		Formation	TD-5600	State	KS
		Legal Description	34-27-18		

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft				RATE	PRESS	ISIP
5/2			150	5/2 Aseru Lite		Max		5 Min.
5227	Depth	From	To	150	Pre Pad AA2	Min		10 Min.
125	Volume	From	To	50	5/2 Aseru Lite	Avg		15 Min.
	Max Press	From	To		Frac	HHP Used		Annulus Pressure
	Well Connection	Annulus Vol.	From	To		Gas Volume		Total Load
	Plug Depth	Packer Depth	From	To	Flush 124			

Customer Representative	L.D. Davis	Station Manager	Dave Scott	Treater	Steve Orlando
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Service Units	27283	27463	19826	19860					
Driver Names	Orlando	Kumera	McLoran						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					On location Safety Meeting
					Run 128 str 5/2 Csg Set @ 5227
					Run packer shoe on It 1
					Basket It 2 Bottom
					Centralizer 1-3-6-9-12-15
					Casing on Bottom Break
	1200				Circ w/ Rig - SET P4856 @ 1200
1:40	350		24	5	Start Mud Flush
1:45	300		5	5	Start H2O Spacer
1:46	300		43	5	Mix 150 sks Aseru Lite @ 13.3
<del>2:00</del>	300		36	5	Mix 150 sks AA2 @ 15.3
1575					Shut Down - Clear Pump + Line
2:08	0		0	6	Start H2O Displacement
2:23	400		90	5	Lift Pressure
2:27	700		110	5	Slow Rate
2:30pm	1500		124	4	Plug Down - Held
					Mix 50 sks Aseru for PH/MH
					Job Complete
					Thanks, Steve



**OPERATOR**

Company: L. D. Drilling, Inc.  
 Address: 7 SW 26th Ave.  
 Great Bend, KS 67530

Contact Geologist:  
 Contact Phone Nbr: 620-793-3051  
 Well Name: Anthony 5-34  
 Location: Sec. 34 - T27S - R18W  
 Pool:  
 State: Kansas

API: 15-097-21704-0000  
 Field: Greensburg  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Anthony 5-34  
 Surface Location: Sec. 34 - T27S - R18W  
 Bottom Location:  
 API: 15-097-21704-0000  
 License Number: 6039  
 Spud Date: 8/14/2011 Time: 23:00  
 Region: Kiowa County  
 Drilling Completed: 8/25/2011 Time: 23:40  
 Surface Coordinates: 990' FNL & 330' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2197.00ft  
 K.B. Elevation: 2207.00ft  
 Logged Interval: 3500.00ft To: 5600.00ft  
 Total Depth: 5600.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude:  
 N/S Co-ord: 990' FNL  
 E/W Co-ord: 330' FWL

Latitude:

**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: KLG #136 Name: Keith Reavis

**CONTRACTOR**

Contractor: Val Energy  
 Rig #: 1  
 Rig Type: mud rotary  
 Spud Date: 8/14/2011 Time: 23:00  
 TD Date: 8/25/2011 Time: 23:40  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2207.00ft Ground Elevation: 2197.00ft  
 K.B. to Ground: 10.00ft

**NOTES**

A Bloodhound gas detector provided by Bluestem Environmental was used on this well from 2070' to TD. The data curves for drill time and gases were imported into this log.

Due to negative results of DST's #1 through #3, the Anthony #5-34 was deepened into the Arbuckle formation and 5 1/2 production casing was into the top of the Arbuckle to be used as an open-hole completion salt water disposal well

production casing was run to the top of the formation to be used as an open hole completion and water disposal well.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted,  
Keith Reavis

## LD Drilling Company

### daily drilling report

DATE	7:00 AM DEPTH	REMARKS
08/18/2011		Geologist Keith Reavis on location @ 1520 hrs, 3507 ft., rig broke down, mud pump, resume drilling @ 2055 hrs
08/19/2011	3626	drilling ahead, Topeka, light plant broke down, wait on repairs resume drilling, Topeka, Heebner, Douglas
08/20/2011	4219	drilling Lansing, cfs A zone, gas kick and show warrant testing short trip, TOH for DST #1, complete DST #1, successful test TIH w/bit, resume drilling, pump repairs @ 2105 hrs, cfs "B"
08/21/2011	4378	after cfs, pump down for repairs, resume drilling 0030 hrs, drilling ahead, lower LKC, BRC into Marmaton
08/22/2011	4378	drilling Marmaton, Pawnee, Cherokee, Miss, Kinderhook, sands have show and kick, warrants DST, TOH for DST #2, conducting DST #2
08/23/2011	4846	complete DST #2, successful test, drill ahead to base of sand, TOH for DST #3, conduct and complete, successful test, TIH w/bit, resume drilling, Viola
08/24/2011	4996	drilling ahead, Viola, Simpson, Arbuckle
08/25/2011	5931	rat-holing ahead, TD @ 5600 ft @ 2340 hrs, geologist off loc.

## LD Drilling Company

### well comparison sheet

Formation	DRILLING WELL LD Anthony 5-34 990' FNL 330' FWL Sec 34-27S-18W				COMPARISON WELL LD Anthony 3-27 585' FSL 330' FWL Sec 27-27S-18W				COMPARISON WELL LD Anthony A 1-34 330' FNL 2310' FWL Sec 34-27S-18W			
	2207 KB				2211 KB		Structural Relationship		2209 KB		Structural Relationship	
	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Topoka	3606	-1399	no logs						3602	-1393	-6	
Heebner	4041	-1834			4042	-1831	-3		4032	-1823	-11	
Douglas	4078	-1871			4076	-1865	-6		4068	-1859	-12	
Lansing	4204	-1997			4203	-1992	-5		4191	-1982	-15	
Lansing B	4232	-2025			4230	-2019	-6		4219	-2010	-15	
Stark Shale	4502	-2295			4498	-2287	-8		4487	-2278	-17	
Base KC	4588	-2381			4594	-2383	2		4579	-2370	-11	
Pawnee	4685	-2478			4684	-2473	-5		4673	-2464	-14	
Cherokee	4722	-2515			4718	-2507	-8		4708	-2499	-16	
Kinderhook Sh	4784	-2577			4780	-2569	-8		4757	-2548	-29	
Lower Kind Sand	4809	-2602			4811	-2600	-2		4787	-2578	-24	
Viola	4874	-2667			4858	-2647	-20		4852	-2643	-24	
Simpson Dol	5074	-2867			nr				5058	-2849	-18	
Arbuckle	5174	-2967			nr				5156	-2947	-20	
Total Depth	5600	-3393			4933	-2722	-671		5504	-3295	-98	

#### DST #1

Company: LU Drilling, Inc.  
 Address: 7 SW 28th Ave.  
 CSZ: Great Bend, KS 67530  
 Attn: Keith Reavis

Lease Name: Anthony  
 Lease #: 5-34  
 Legal Desc: SW-NW-NW  
 Section: 34  
 Township: 27S  
 County: Kiowa  
 Drilling Cont: Val Energy, Inc. Rig #1  
 Job Ticket: 2163  
 Range: 16W  
 State: KS

Comments: Field: Greensburgh

**GENERAL INFORMATION**

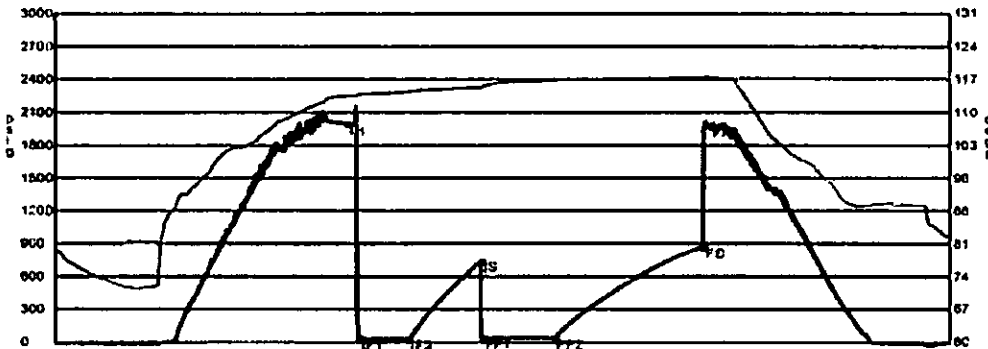
Test # 1  
 Tester: Tim Venters  
 Test Type: Conventional Bottom Hole  
 # of Packers: 2.0  
 Packer Size @ 3/4  
 Mud Type: Gel Chem  
 Mud Weight: 8.5  
 Filtrate: 12.8  
 Viscosity: 48.0  
 Chlorides: 11800  
 Drill Collar Len: 0  
 Wght Pipe Len: 0  
 Formation: Lening "A"  
 Interval Top: 4187.0  
 Anchor Len Below: 22.0  
 Total Depth: 4219.0  
 Blow Type: Strong blow throughout the initial flow period, hitting the bottom of the bucket instantaneously. Very strong blow throughout the final flow period, hitting the bottom of the bucket instantaneously. Gas to surface in 9 1/2 minutes. Times: 80, 48, 48, 80.

Chokes: 3/4  
 Top Recorder #: W1119  
 Mid Recorder #:  
 Bot Recorder #: 13310  
 Mileage: 72  
 Standby Time: 0  
 Extra Equipment: Jars & Safety joint  
 Time on Site: 8:40 AM  
 Tool Picked Up: 7:48 AM  
 Tool Layed Down: 6:00 PM  
 Approved By:  
 Elevation: 2187.00  
 Kelley Bushings: 2207.00  
 Start Date/Time: 8/20/2011 8:53 AM  
 End Date/Time: 8/20/2011 3:54 PM

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
4075	Gas in Pipe	100% 4095ft	0% 0ft	0% 0ft	0% 0ft
60	Gas, slight water cut mud	0% 4.8ft	0% 0ft	18% 14.4ft	76% 60.8ft

DST Fluids: 53000



Date	Time	Pressure	Temp	
IH	8/20/2011 9:48:40 AM	2,927,778	113.316	Initial Hydro-static
IF1	8/20/2011 9:55:40 AM	3,044,444	113.57	Initial Flow (1)
IF2	8/20/2011 10:25:20 AM	3,638,889	114.281	Initial Flow (2)
IS	8/20/2011 11:09:30 AM	4,275	115.187	Initial Shut-in
FF1	8/20/2011 11:10:40 AM	4,294,444	115.32	Final Flow (1)
FF2	8/20/2011 11:54:20 AM	5,022,222	118.566	Final Flow (2)
FS	8/20/2011 1:24:00 PM	6,515,667	117.178	Final Shut-in
FM	8/20/2011 1:28:20 PM	6,588,889	107.7,202	Final Hydro-static

**GAS FLOWS**

Min Into FFP	Min Into FFP	Gas Flows	Pressure	Choke
0	20	4.30 mcf	6.50 h2o	0.25 in
0	30	3.37 mcf	4.00 h2o	0.25 in
0	40	2.92 mcf	3.00 h2o	0.25 in
0	45	2.68 mcf	2.60 h2o	0.25 in

**DST #2**

**RICKETTS TESTING**

(620) 320-5830

Page 1

Company: LD Drilling, Inc.  
 Address: 7 SW 28th Ave.  
 CSZ: Great Bend, KS 67530  
 Attn: Keith Reavis

Lease Name: Anthony  
 Lease #: 5-34  
 Legal Desc: SW-NW-NW  
 Section: 34  
 Township: 27S  
 County: Kiowa  
 Drilling Cont: Val Energy, Inc. Rig #1  
 Job Ticket: 2163  
 Range: 16W  
 State: KS

Comments: Field: Greensburgh

**GENERAL INFORMATION**

Test # 2  
 Tester: Tim Venters  
 Test Type: Conventional Bottom Hole  
 # of Packers: 2.0  
 Packer Size @ 3/4  
 Mileage: 72  
 Standby Time: 0  
 Approved By:

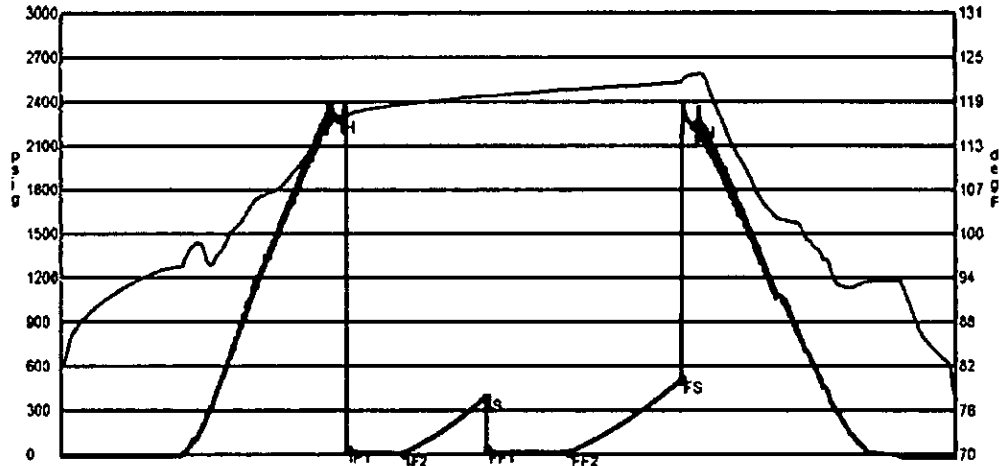
Chokes: 3/4  
 Top Recorder #: W1119  
 Mid Recorder #:  
 Bot Recorder #: 13310

Hole Size: 7 7/8

Mud Type	Gel Chem	Viscosity	81.0	Extra Equipment	Jars & Safety Joint
Mud Weight	9.2	Chlorides	8400	Time on Site	8:00 PM
Filtrate				Tool Picked Up	8:20 PM
				Tool Layed Dwn	1:15 AM
Drill Collar Len	0			Elevation	2197.00
Wght Pipe Len	0				Kelley Bushings 2207.00
Formation	Kinderhook Bd.			Start Date/Time	8/22/2011 8:20 PM
Interval Top	4747.0	Bottom	4818.0	End Date/Time	8/23/2011 1:21 AM
Anchor Len Below	72.0	Between	0		
Total Depth	4818.0				
Blow Type	Weak 1/4 inch blow at the start of the initial flow period, building to 9 inches. Strong blow throughout the final flow period, reaching the bottom of the bucket in 2 minutes. It never did blow water out of the bucket. Times: 30, 45, 45, 90.				

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
230	Gas in Pipe	100% 230ft	0% Oil	0% Oil	0% Oil
25	Slight oil out mud	0% Oil	17% 4.2ft	0% Oil	83% 20.8ft
DST Fluids 0					



Date	Time	Pressure	Temp	
IH	8/22/2011 7:48:30 PM	2,475	116.522	Initial Hydro-static
IF1	8/22/2011 7:53:00 PM	2.55	40.98	Initial Flow (1)
IF2	8/22/2011 8:23:50 PM	3,063,889	9.976	Initial Flow (2)
IS	8/22/2011 9:08:00 PM	3.8	390.517	Initial Shut-in
FF1	8/22/2011 9:08:30 PM	3,808,333	36.635	Final Flow (1)
FF2	8/22/2011 9:53:10 PM	4,552,778	12.666	Final Flow (2)
FS	8/22/2011 10:53:30 PM	5,558,333	508.234	Final Shut-in
FH	8/22/2011 10:59:40 PM	5,661,111	2243.052	Final Hydro-static

**DST #3**

**RICKETTS TESTING**

(620) 328-0630

Page 1

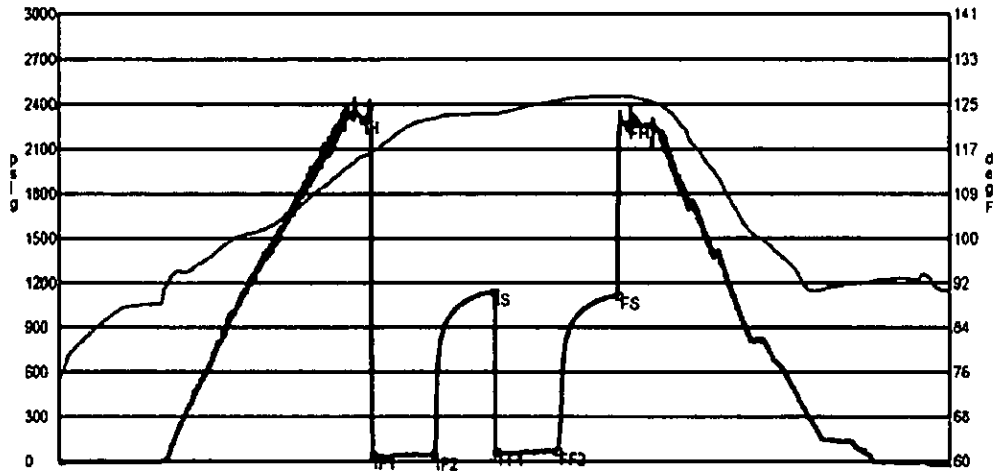
Company	LD Drilling, Inc.	Lease Name	Anthony
Address	7 SW 26th Ave.	Lease #	6-34
CSZ	Great Bend, KS 67530	Legal Desc	SW-NW-NW
Attn	Kelth Reeves	Section	34
		Township	27S
		County	Kiowa
		Drilling Cont	Val Energy, Inc. Rig #1
Comments	Field: Greensburgh	Job Ticket	2183
		Range	18W
		State	KS

**GENERAL INFORMATION**

Test # 3	Tester	Test Date	8/23/2011	Chokes	3/4	Hole Size	7 7/8
Test Type	Conventional Bottom Hole			Top Recorder #	W1119		
# of Packers	2.0	Packer Size	8 3/4	Mid Recorder #			
Mud Type	Gel Chem	Viscosity	84.0	Bot Recorder #	13310		
Mud Weight	9.1	Chlorides	8400	Mileage	72	Approved By	
Filtrate				Standby Time	0		
Drill Collar Len	0			Extra Equipment	Jars & Safety Joint		
Wght Pipe Len	0			Time on Site	8:45 AM		
Formation	Kinderhook Bd.			Tool Picked Up	10:00 AM		
Interval Top	4820.0	Bottom	4848.0	Tool Layed Dwn	4:35 PM		
Anchor Len Below	28.0	Between	0	Elevation	2187.00	Kelley Bushings	2207.00
Total Depth	4848.0			Start Date/Time	8/23/2011 8:21 AM		
Blow Type	Weak surface blow at the start of the initial flow period, building to 4 1/2 inches. Very weak surface blow at the start of the final flow period, building to 3 inches. There was a trace of oil in the tool on the recovery. Times: 30, 30, 30, 30.						
				End Date/Time	8/23/2011 4:36 PM		

**RECOVERY**

Feet	Description	Gas	Oil	Water	Mud
40	Mud cut water	0% Oil	0% Oil	62% 24.8ft	38% 15.2ft
95	Very slight mud cut water	0% Oil	0% Oil	01% 86.4ft	9% 8.6ft



	Date	Time	Pressure	Temp	
IH	8/23/2011 11:48:40 AM	2.461111	2306.121	115.493	Initial Hydro-static
IF1	8/23/2011 11:53:00 AM	2.533333	45.539	115.99	Initial Flow (1)
IF2	8/23/2011 12:23:20 PM	3.038889	43.155	122.261	Initial Flow (2)
IS	8/23/2011 12:52:50 PM	3.530556	1145.534	123.217	Initial Shut-In
FF1	8/23/2011 12:53:40 PM	3.544444	67.446	123.107	Final Flow (1)
FF2	8/23/2011 1:23:30 PM	4.041667	69.481	125.376	Final Flow (2)
FS	8/23/2011 1:53:20 PM	4.538889	1119.678	126.161	Final Shut-In
FH	8/23/2011 1:57:50 PM	4.613889	2271.145	126.217	Final Hydro-static

**ROCK TYPES**

Cht	Dolprim	Lmst fw7>	Carbon Sh
Cht vari	Dolsec	shale, grn	shale, red
Chtcongri	Lmst fw<7	shale, gry	Ss

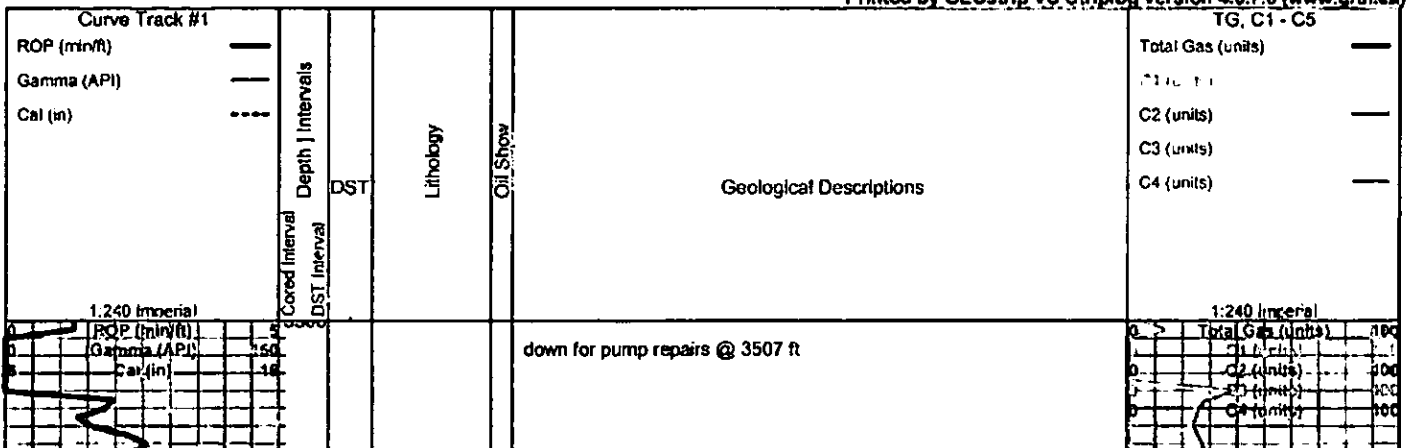
**ACCESSORIES**

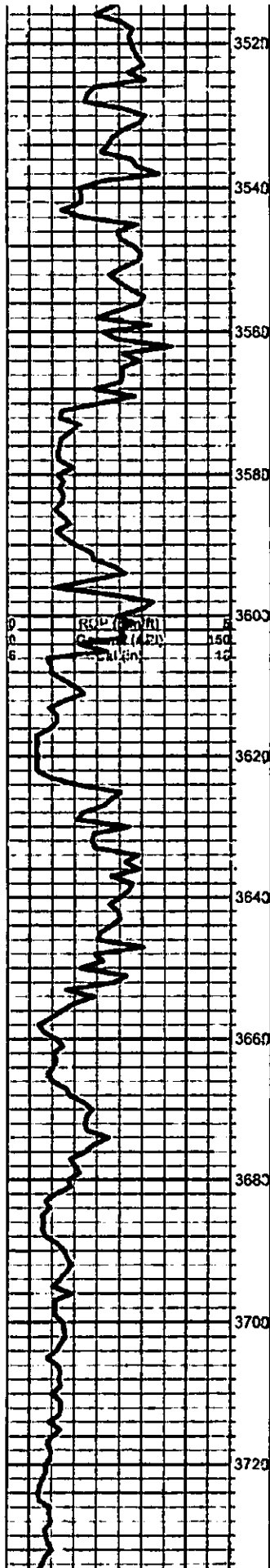
<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
- Argillaceous	∩ Bioclastic or Fragmental	Limestone	C Chalky
▲ Chert, dark	F Fossils < 20%	Sandstone	CX Cryptocrystalline
∟ Dolomitic	◇ Oolite	Siltstone	FX FinexIn
P Pyrite	⊕ Oomoldic	Shale	L Lithogr
* Sandy		green shale	MX MicroxIn
** Silty		red shale	
△ Chert White			

**OTHER SYMBOLS**

**DST**

	DST Int
	DST alt
	Core





poor samples, after displacement

samples improving, limestone, gray, microcrystalline, grainy, fossiliferous, dense, with cream to white chalky fossiliferous limestone, with some dark gray cherts, no shows

shale, mostly green, some maroon and gray, silty, with some green siltstone streaks

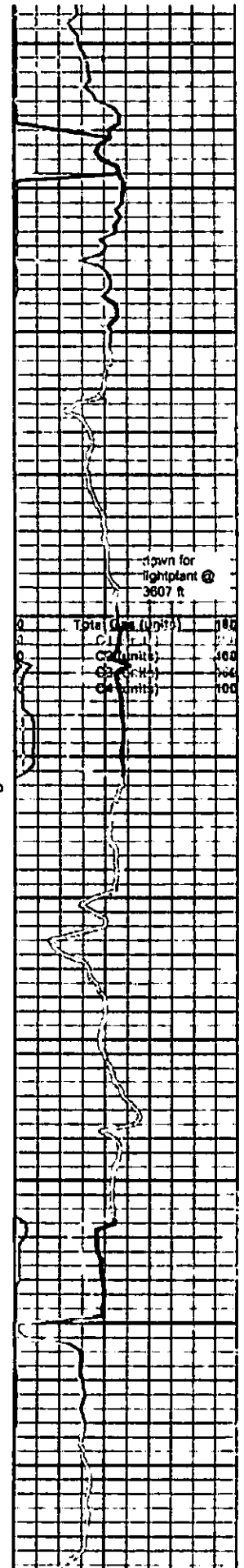
**Topeka 3606 -1399**

limestone, cream to light gray and white, microcrystalline, fossiliferous, chalky, some scattered porosity, no shows

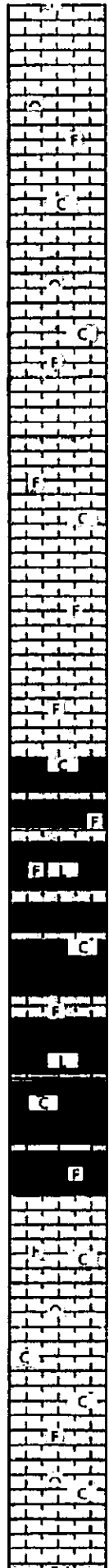
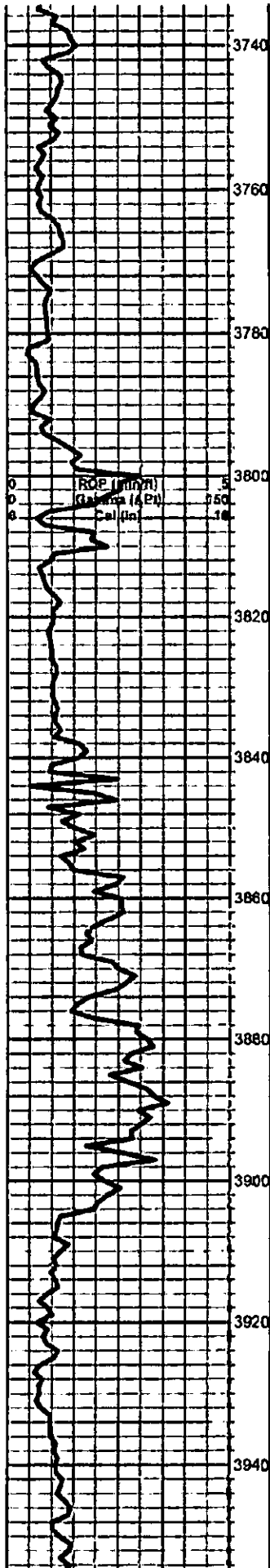
limestone, mixed fossiliferous, gray to cream and pale green, dense, no shows

limestone, cream to light gray, microcrystalline, fossiliferous to bioclastic, chalky, some grainy, some scattered interclast porosity, no shows, moderate chalk in samples

as above



down for  
lightplant @  
3607 ft



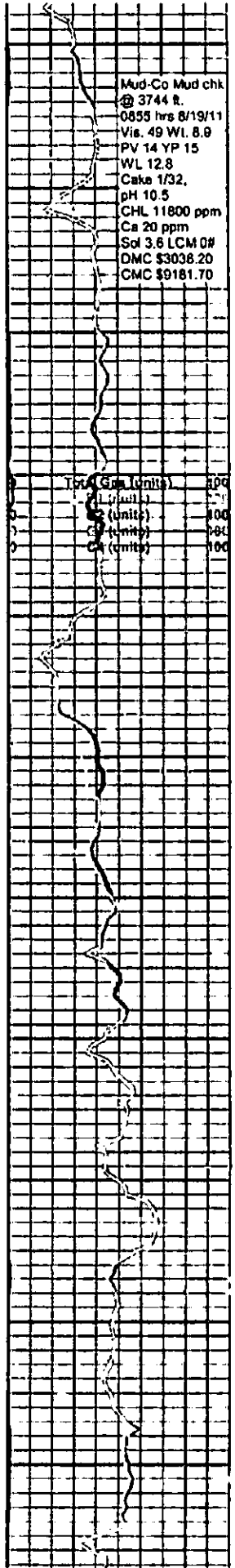
as above

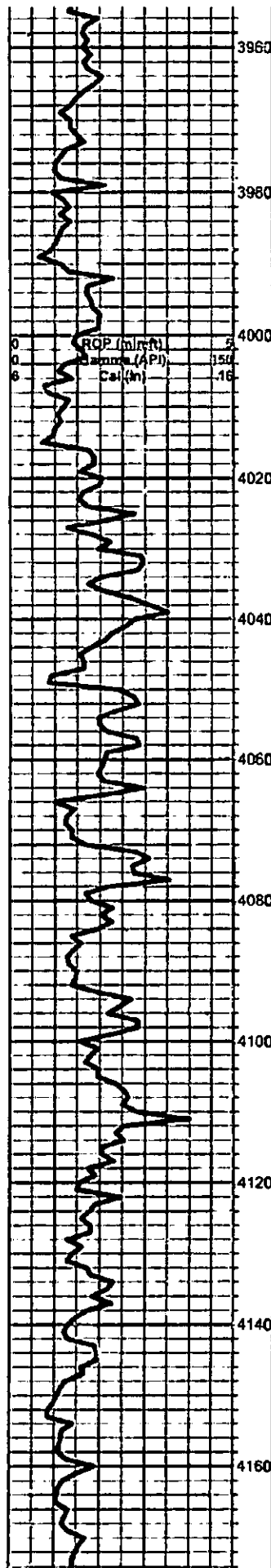
limestone, mixed white to gray, chalky, fossiliferous, some scattered porosity, abundant chalk, no shows

limestone, mixed fossiliferous, cream to white and gray, some scattered porosity, with: limestone, cryptocrystalline, dense, compact lithographic, gray, no shows, abundant chalk in samples

as above

limestone, white to cream and light gray, microcrystalline, fossiliferous to bioclastic, chalky, some scattered interclast porosity, abundant chalk in samples, no shows





as above

limestone, white to cream, micro to fine crystalline, fossiliferous to bioclastic, some small calcite crystals, very chalky, some scattered fair porosity, no shows, abundant chalk in samples

as above

mixed chalky fossiliferous limestones

**Heebner 4041 -1834**

black carbonaceous shale

**Toronto 4058 -1851**

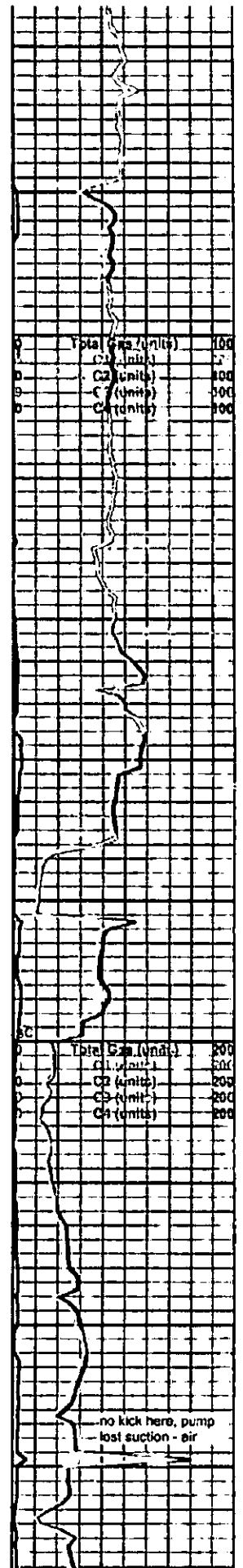
limestone, white to cream, microcrystalline, some calcite crystals, fossiliferous, grainy, chalky, poor overall visible porosity, no shows, some light fluorescence

**Douglas 4078 -1871**

green and gray silty, soft shales

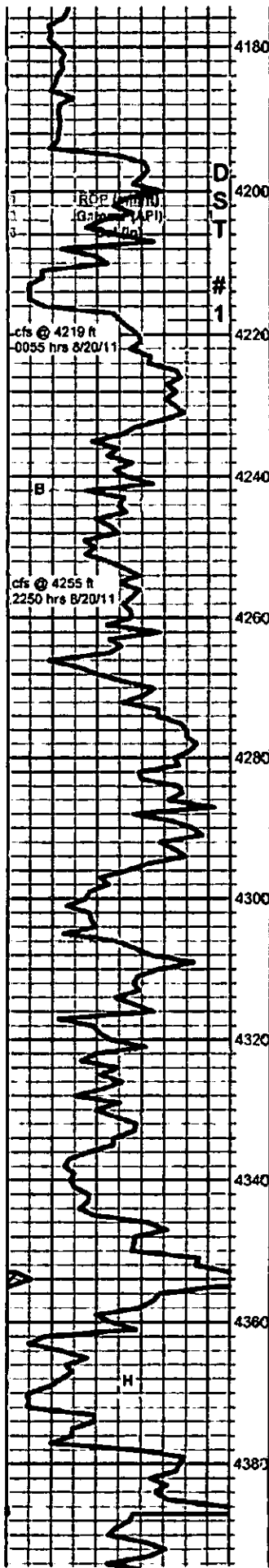
as above, some stringers dark brown pyritic limestone, some gray salt and pepper siltstone

shale and siltstone stringers as above



no kick here, pump  
last suction - air





**Brown Lime 4194 -1987**  
limestone, tan, dense, fossiliferous

**Lansing 4204 -1997**

limestone, cream to tan, bioclastic, oolitic and oomoldic, some good interclast and moldic porosity, questionable stain, show gas, no show oil, bright green fluorescence, no cut

limestone, white to cream, microcrystalline, fossiliferous to bioclastic, some fair interclast porosity, some light spotty stain, slight show scaley oil sheen, floating odor, good green fluorescence, slow milky cut and halo

limestone, white to light gray, microcrystalline, fossiliferous to bioclastic, trace oolitic, chalky in part, poor visible porosity, no shows

limestone, mixed dense fossiliferous, trace chert, some chalk, no shows

limestone, cream to white, micro to fine crystalline, fossiliferous, chalky, some interclast porosity, no shows

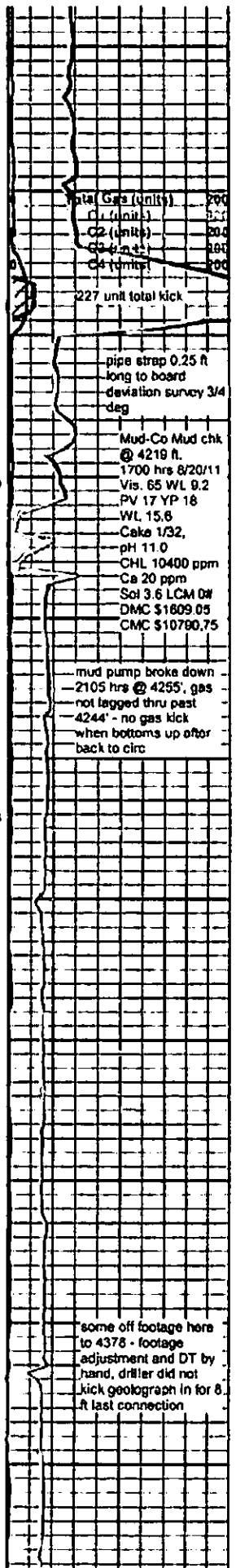
limestone, cream to gray and tan, micro to fine crystalline, fossiliferous to crystalline, poor visible porosity, mostly dense, with: chert, smokey gray, slightly fossiliferous, sharp, fresh, no shows

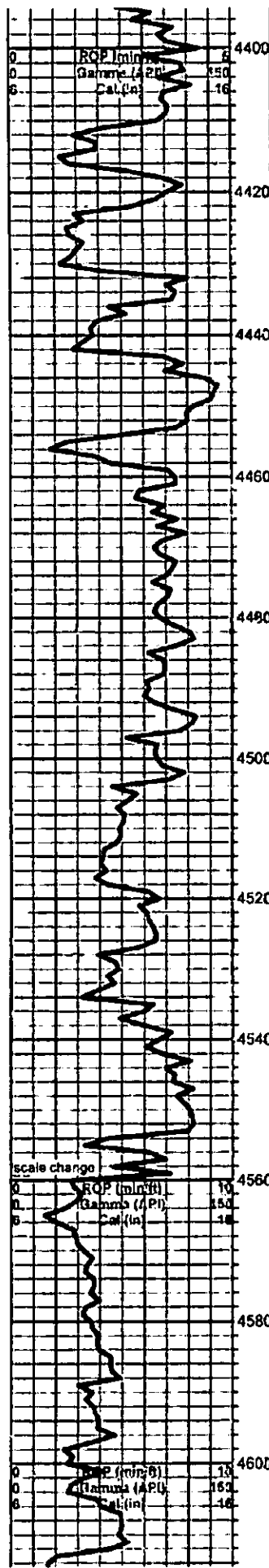
limestone, cream fossiliferous to tan oomoldic, some fair oomold porosity, no shows (4360 sample smells of solvent?)

limestone, cream to light gray, microcrystalline, fossiliferous, some scattered small specimens oolitic to sub-oomoldic, poor overall porosity, no shows

limestone, cream to white and light gray, micro to fine crystalline, fossiliferous to crystalline, dense, no shows

limestone, limestone, cream to white, microcrystalline, chalky.





fossiliferous, dense, no shows

limestone, white to cream and light gray, microcrystalline, mixed fossiliferous to bioclastic, some oolitic and oomoldic, mostly chalky, with some dense microcrystalline limestones, trace chert, abundant chalk, no shows

as above

dense mixed fossiliferous limestones

limestone, mixed gray to cream and white non-descript fossiliferous, some brown dense flattened oolitic, no shows

mixed non-descript fossiliferous as above, dense to chalky, no shows

**Stark Shale 4502 -2295**  
black carbonaceous shale

limestone, cream to gray, microcrystalline, fossiliferous, some dark gray, cryptocrystalline, arenaceous, dense lithographic, no shows

limestone, cream to white and light gray, microcrystalline, fossiliferous, chalky, poor visible porosity, no shows

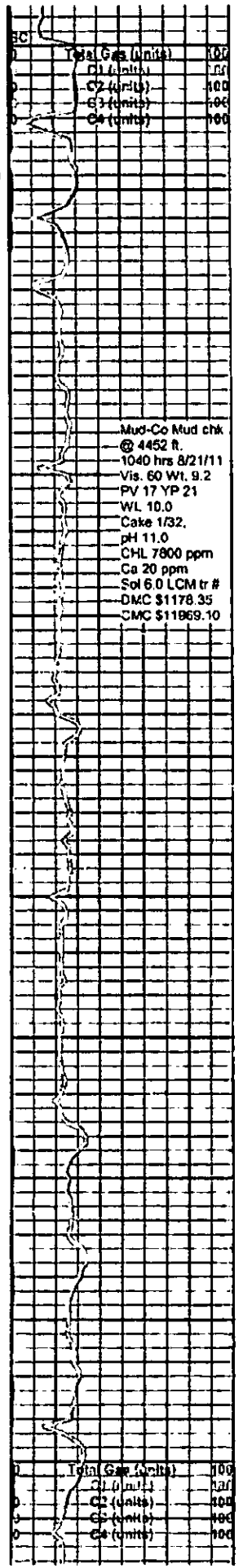
**Hushpuckney**

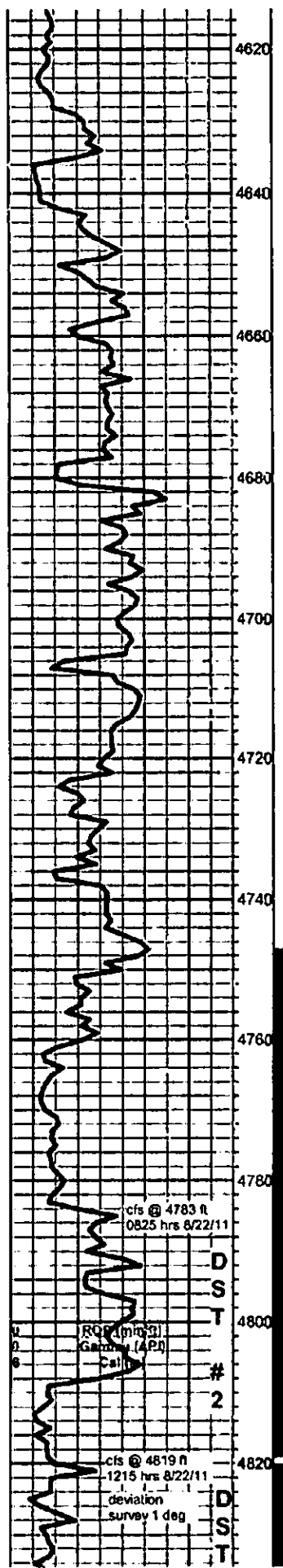
limestone, cream to gray, crypto-microcrystalline, fossiliferous to lithographic, mostly dense to chalky, some scattered fine oomoldic and oolitic, some fair oomold porosity, barren

mixed limestones as above, some brown dense lithographic

**Base KC 4588 -2381**  
gray dense blocky shales, some green, some silty, scattered pyrite nodules

limestone, gray to tan, crypto-microcrystalline, fossiliferous, some oolitic, some lithographic, chalky in part





limestones as above

limestone, cream to light gray, micro-cryptocrystalline, slightly fossiliferous to lithographic, some chalky, with limestone, pale green, cryptocrystalline, compact dense lithographic, some green and gray cherts, no shows

shale, black carbonaceous

**Pawnee 4685 -2478**

limestone, cream to light gray, cryptocrystalline, slightly fossiliferous, chalky, dense, no shows

black carbonaceous shale, with brick red and green

limestone, light gray to gray, cryptocrystalline, dense, no shows

**Cherokee 4722 -2515**

black carbonaceous with mixed shale

limestone, cream to tan and light gray, cryptocrystalline, mostly dense lithographic, some slightly fossiliferous and chalky, trace pyritic, no shows

chert conglomerate, cherts tan to gray, translucent to opaque, yellow to orange and green, mostly sharp and fresh, some with fractures and dead gilsonite, some mixed green to cream limestones, some cherty, some weathered, scattered black dead stain, no show free oil, no odor, some scattered fair fluorescence

**Kinderhook 4784 -2577**

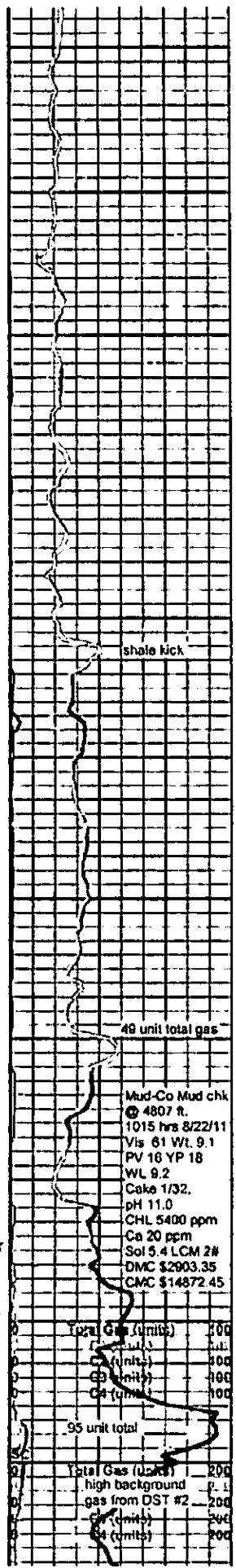
shale, green, dense and limey to soft and silty, some stringers of (starting in 4800' sample) sandstone, quartz, sub-round to angular, poor visible porosity, well cemented, some very pyritic, dead black flakey gilsonitic staining, no show free oil, no odor, no fluorescence

shale, green, silty, some green siltstones and very fine grain silty/shaley sandstone, (abundant brown limestone?)

**Lower Kinderhook Sand 4809 -2602**

sandstone, quartz, pale green to white to brown, very fine grain, well sorted and rounded, fairly friable, some shaley, poor visible porosity, mostly saturated light brown stain, fair show free oil, faint odor, trace gas bubbles, no fluorescence, slow milky cut on break, slight increase in green shaly sand a.a. with no show in 60 min

4820-46 sandstone, white to green, very fine grain, well sorted and rounded, some clayey to shaley, poor visible porosity, mostly barren, some stained sand clusters as above, no show free oil, no odor, no



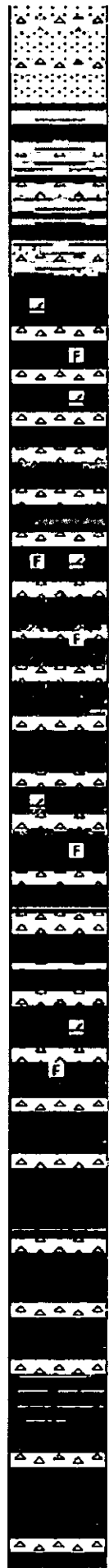
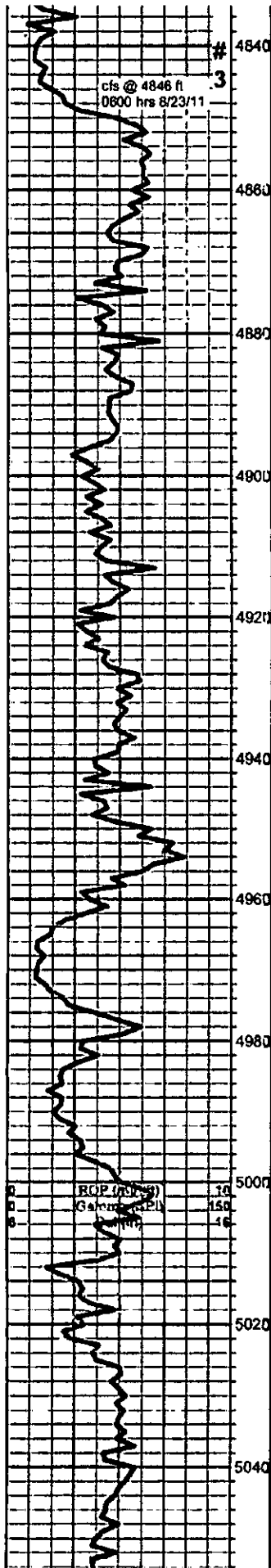
shale kick

48 unit total gas

Mud-Co Mud chk  
 @ 4807 ft.  
 1015 hrs 8/22/11  
 Vis 61 Wt. 9.1  
 PV 16 YP 18  
 WL 9.2  
 Cake 1/32.  
 pH 11.0  
 CHL 5400 ppm  
 Ca 20 ppm  
 Sol 5.4 LCM 2#  
 DMC \$2903.35  
 CMC \$14872.45

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

95 unit total	
Total Gas (units)	200
high background gas from DST #2	200
Gas (units)	200
C1 (units)	200
C4 (units)	200



fluorescence, with: chert, white to pale green, translucent, sandy, fresh, no shows

shale, dense gray and green, some fossiliferous, some dense maroon shales, with limestone, green to tan, argillaceous to slightly fossiliferous, dense, with chert, pale green to yellow and off-white, sandy to opaque and translucent

4890 sample, a.a., abundant mixed sand as lower KH

**Viola 4874 -2667**

limestone, dolomitic, white to light gray and gray/green, microcrystalline, slightly fossiliferous, mostly dense, chalky in part, with chert, white to light gray, fossiliferous in part, sharp, fresh, no shows, some light fluorescence

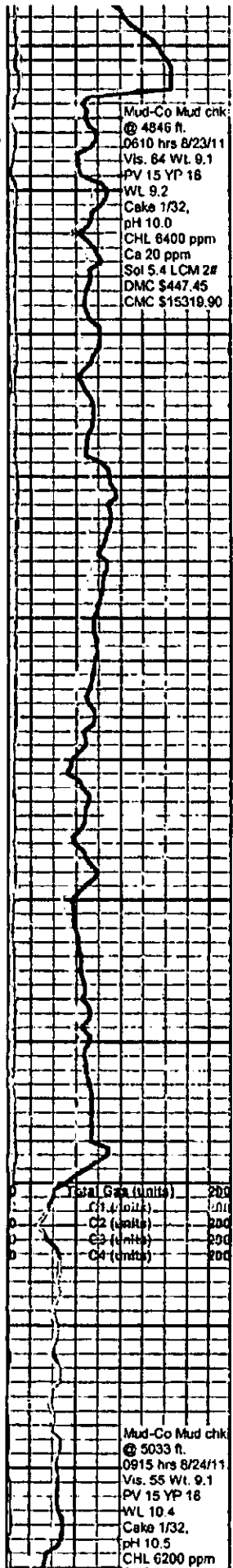
as above, some microcrystalline dolomite, white to pale green, dense, no shows

as above, increasing dolomite

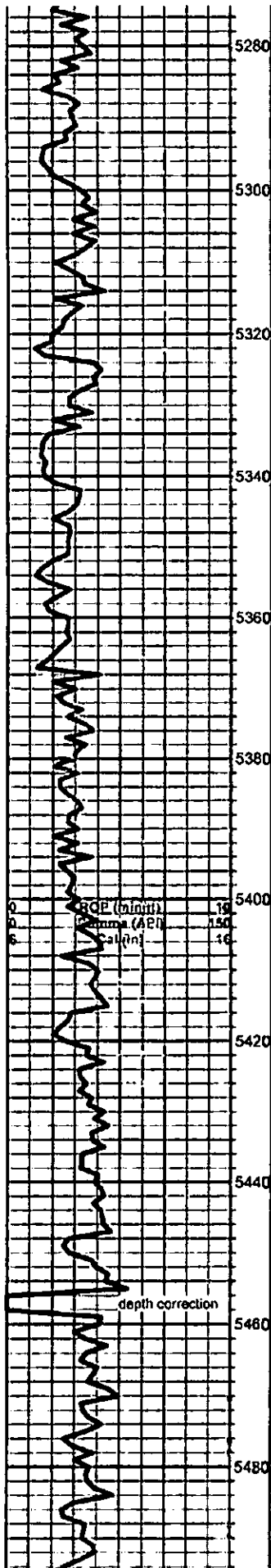
dolomite, limestone and chert as above, with dolomite becoming primary, cherts secondary with decreasing limestones

dolomite, white to light gray, microcrystalline, sub-sucrosic to sub-rhombic, some tan, micro to cryptocrystalline, poor visible porosity, with: chert, white to light gray, mostly sharp, fresh, trace weathered, no shows, no fluorescence

as above







dolomite, light gray to cream and tan, mixed crystalline, rhombic to lithographic, some scattered sucrosic, some fair intercrystalline porosity, some large secondary dolomite crystals, some caliche filled, scattered cherts, no shows

as above, influx pale gray/green cryptocrystalline, sub-sucrosic, dense

dolomite, light gray to white to tan, microcrystalline, mostly rhombic to sub rhombic, some good solution and intercrystalline porosity, scattered oolitic and sandy dolomite, scattered chert, no shows

as above

mixed dolomites, micro-cryptocrystalline, rounded re-crystallized rhombs, some scattered porosity, some scattered cherts, influx green dense blocky shale

as above

dolomite, white to tan, mixed crystalline, some scattered solution porosity, some scattered large clear dolomite crystals, decreased chert

dolomite as above, flood white boney chert

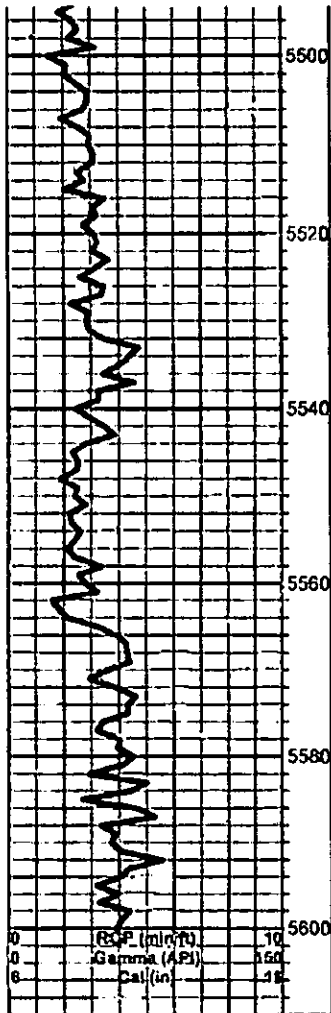
as above

dolomite, white to cream, gray and tan, mostly microcrystalline rhombic to some rhombic, some fine crystalline rhombic, some fair intercrystalline porosity, some secondary crystallization, abundant chert as above

Mud-Co Mud chk  
 @ 5382 ft.  
 0930 hrs 8/25/11  
 Vis. 57 Wt. 9.1  
 PV 16 YP 18  
 WL 8.4  
 Cake 1/32,  
 pH 9.0  
 CHL 4400 ppm  
 Ca 40 ppm  
 Sol 5.5 LCM 6#  
 DMC \$2840.65  
 CMC \$20388.15

0	Thin Gas (units)	200
1	CO <sub>2</sub> (units)	200
2	CO <sub>2</sub> (units)	200
3	CO <sub>2</sub> (units)	200
4	CO <sub>2</sub> (units)	200

turn off extractor

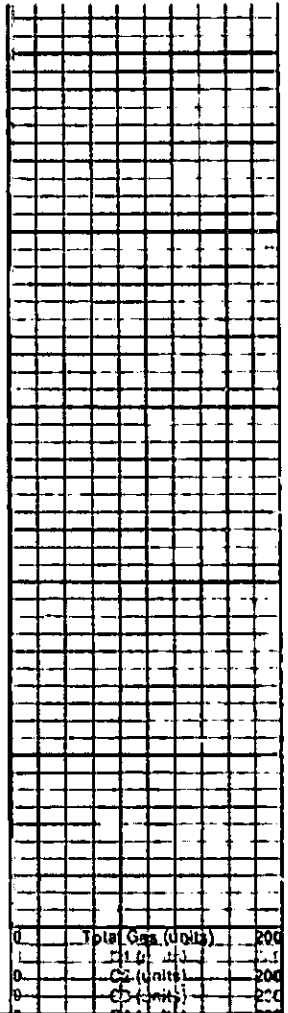


as above

dolomite, tan to gray, micro to fine crystalline, mostly rhombic, some cryptocrystalline, some fair but mostly poor overall visible porosity, abundant caliche fill, scattered cherts

dolomite, tan to gray, micro-cryptocrystalline, recrystallized rhombs, some secondary crystallization, scattered intercrystalline porosity, scattered cherts as above

Rotary TD 5600 @ 2340 hrs 8/25/11



0	Total Gas (Unit)	200
0	...	...
0	...	...
0	...	...