Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1073103

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 # 34320
Name: Lasso Energy LLC
Address 1: PO Box 465
Address 2: 1125 SOUTH MAIN
City: Chase State: KS Zip: 67524 + 0465
Contact Person: BRUCE D. KELSO
Phone: (918) 633-9655
CONTRACTOR: License # 5822
Name: Val Energy, Inc.
Wellsite Geologist: DEREK PATTERSON
Purchaser: NCRA

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: VINCENT OIL CORPORATION
Well Name: THOMPSON #8
Original Comp. Date: 12/12/2011 Original Total Depth: 4569

☑ 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 #:

01/09/2012	01/11/2012	01/24/2012
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-047-21602-00-01
Spot Description: C W2 W2 SE
E2 - W2 - W2 - SE Sec. 30 Twp. 26 S. R. 16 ☐ East ☑ West
1320 Feet from ☐ North / ☑ South Line of Section
2245 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☐ NW ☑ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Edwards
Lease Name: WOOD Well #: 1
Field Name: WILDCAT
Producing Formation: MISSISSIPPI CHERT
Elevation: Ground: 2097 Kelly Bushing: 2107
Total Vertical Depth: 4978 Plug Back Total Depth: 4885
Amount of Surface Pipe Set and Cemented at: 479 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: 8000 ppm Fluid volume: 530 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: OPIK
Lease Name: Palmitier SWD License #: 8061
Quarter SW Sec. 16 Twp. 25 S. R. 16 ☐ East ☑ West
County: EDWARDS Permit #: D-20,983

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: 02/21/2012
☑ **Confidential Release Date:** 02/20/2014
☐ **Wireline Log Received**
☑ **Geologist Report Received**
☐ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 02/21/2012

[redacted] 1073103

Operator Name: Lasso Energy LLC Lease Name: WOOD Well #: 1

Sec. 30 Twp. 26 S. R. 16 ☐ East ☑ West County: Edwards

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☐ Yes ☑ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Attached

☑ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
PLEASONTON	4344'	-2237
MISSISSIPPIAN	4550	-2443
KINDERHOOK	4602	-2495
KINDERHOOK SAND	4615	-2508
VIOLA	4681	-2574
SIMPSON	4828	-2721
ARBUCKLE	4911	-2804

CASING RECORD ☐ New ☐ 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
SURFACE	12.25	8.625	23.0	479	60/40 POZ	475	2% GEL AND 3% CC
PRODUCTION	7.875	5.5	17.0	4961	AA2	160	SEE CEMENT TICKET

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	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth
1	4547'-4597' (50') 1 SPF WITH 120 DEGREE PHASE - STANDARD SHOT	SHOT	4547'-4597'
	10% MCA - 2700 GALLONS TOTAL	PPI ACID JOB	4547'-4597'
	10% NeFe - 3000 GALLONS TOTAL	RETREAT ACID JOB	4547'-4597'
	*FRAC PLANNED IN THE FUTURE	253,000 LBS SAND, 630,000 GALLONS OF SLICK WATER	4547'-4597'

TUBING RECORD: Size: 2.875 (154 JTS) Set At: 4881.82 Packer At: NONE

Liner Run: ☐ Yes ☑ No

Date of First, Resumed Production, SWD or ENHR. 01/24/2012

Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☑ Other *(Explain)* SWABBING

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	1.0	5.0	10.0	5	38

DISPOSITION OF GAS:
☑ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☐ Open Hole ☑ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)* _____

PRODUCTION INTERVAL:
MISSISSIPPI CHERT
4547'-4597'

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Lasso Energy LLC
Well Name	WOOD 1
Doc ID	1073103

All Electric Logs Run

TUCKER: MICRO LOG
TUCKER: COMPENSATED NEUTRON PEL DENSITY LOG
TUCKER: DUAL INDUCTION RESISTIVITY LOG
lLOG TECH: CEMENT BOND LOG

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

Kansas
Corporation Commission

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

February 21, 2012

BRUCE D. KELSO
Lasso Energy LLC
PO Box 465
1125 SOUTH MAIN
Chase, KS 67524-0465

Re: ACO1
API 15-047-21602-00-01
WOOD 1
SE/4 Sec.30-26S-16W
Edwards County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and all attached information (including the logs that we emailed as per the requirements of submitting the ACO-1) 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,
BRUCE D. KELSO

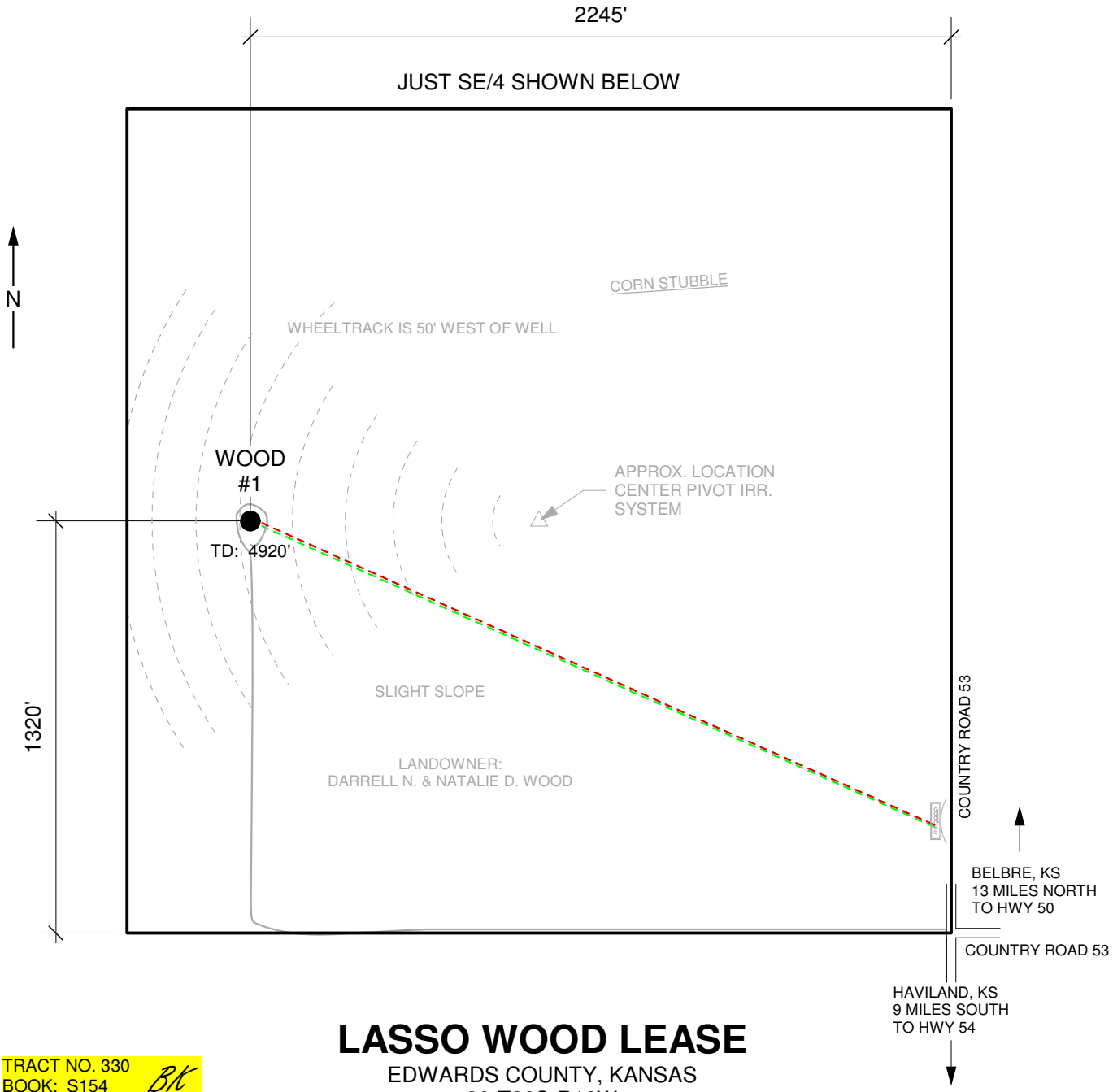
LassoEnergy LLC

LASSO ENERGY LLC
1125 SOUTH MAIN
P.O. BOX 465
CHASE, KANSAS 67524

LASSO ENERGY LLC	WOOD	1	12/21/2011
OPERATOR	LEASE	WELL NO.	DATE

EDWARDS	KANSAS	30	26S	16W
COUNTY	STATE	S	T	R

2097' GR	1320' FSL, 2245' FEL OF SEC
ELEVATION	LOCATION



LASSO WOOD LEASE

EDWARDS COUNTY, KANSAS
30-T26S-R16W
SE/4 -- 160.0 GROSS ACRES
128 NET ACRES
NRI: 80.0%
HELD BY LEASE
SCALE: 1"=500'

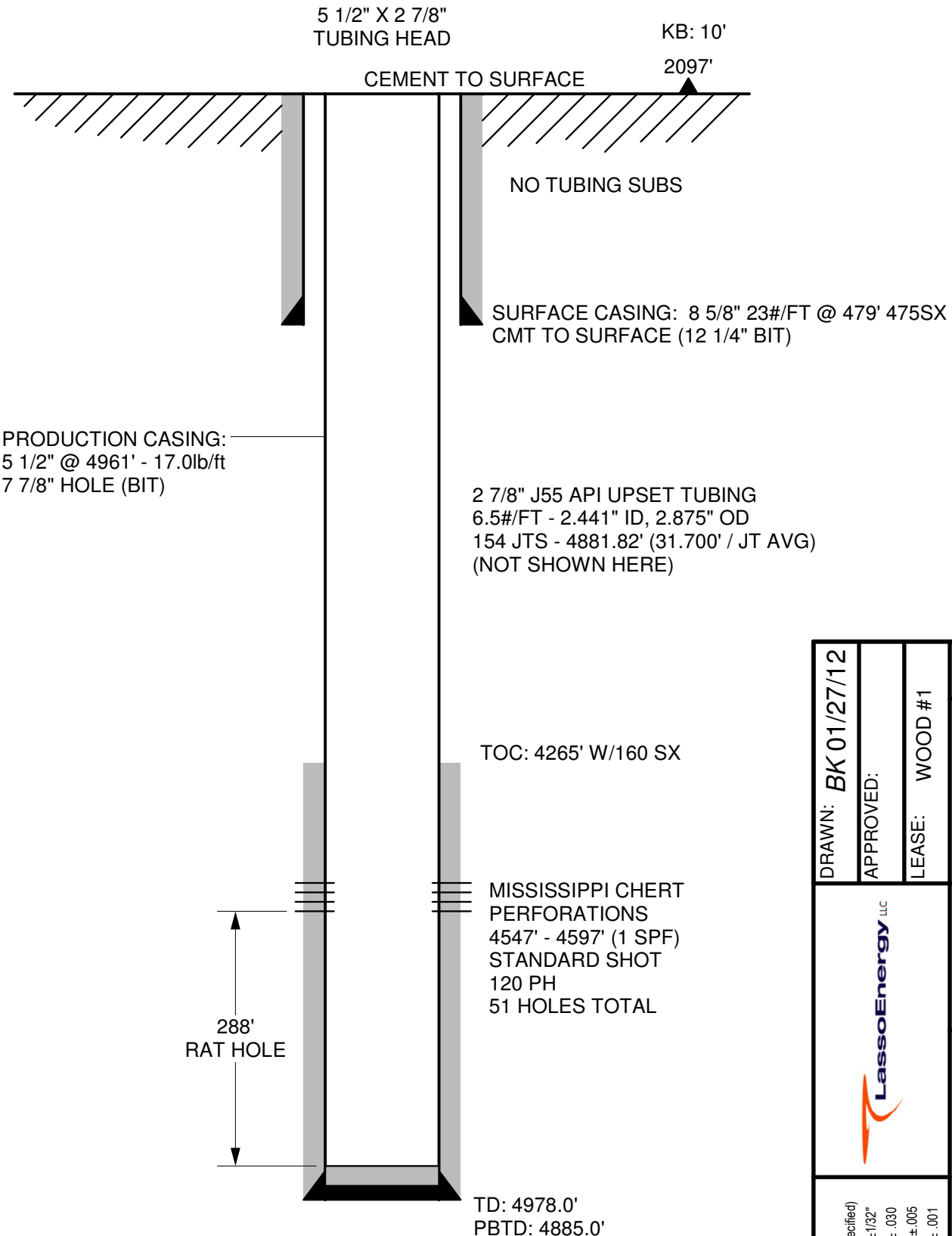
TRACT NO. 330
BOOK: S154
PAGE: 56
LEASE DATE: 7/20/2011
TERM: 60 MONTHS

BK

480 VAC 3 PHASE ELECTRIC LINE
3" PVC WATER DISPOSAL LINE (TBD)
3" PVC LEAD (OIL & WATER) LINE
LEASE ROAD

12/21/2011
SURVEYED

REVISION:	DESCRIPTION:	WELL No: 1	REV.



DRAWN: BK 01/27/12	APPROVED:	LEASE: WOOD #1	WELL No: 1	REV.
	LassoEnergy LLC		SCALE: N/A	
TOLERANCES (Unless Otherwise Specified) Fractional..... ±1/32" 2 Place Decimal.....± .030 3 Place Decimal..... ±.005 4 Place Decimal.....± .001			LOCATION: 30-26S-16W - EDWARDS CO.	

Scale 1:240 (5"=100') Imperial

Well Name:	Wood #1 'OWWO'		
Location:	Sec. 30 - T26S - R16W, Edwards County, KS		
Licence Number:	API No.: 15-047-21602-0001	**Region:**	Wildcat
Spud Date:	January 9, 2012	**Drilling Completed:**	January 11, 2012
Surface Coordinates:	1320' FSL & 2245' FEL		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2097'	**K.B. Elevation (ft):**	2107'
Logged Interval (ft):	4569' To: 4979'	**Total Depth (ft):**	4978' (LTD)
Formation:	Arbuckle		
Type of Drilling Fluid:	Chemical Gel/Polymer		

Printed by MUD.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Lasso Energy, LLC
Address: P.O. Box 465
1125 South Main
Chase, KS 67524

GEOLOGIST

Name: Derek W. Patterson
Company: Valhalla Exploration, LLC
Address: 133 N. Glendale
Wichita, KS 67208

REMARKS

After review of the open hole logs and sample evaluations for the Wood #1 'OWWO', it was decided by operator to run 5 1/2" production casing to further evaluate the Mississippian with possible downhole water disposal into the Arbuckle.

Respectfully Submitted,

Derek W. Patterson

COMMENTS

This well was originally drilled as the Thompson #8 by Vincent Oil Corp. Based on the lithographic descriptions and well log analysis, given no shows of oil or gas in the Pleasanton and therefore a lack of any good reservoir development, as well as a negative drill stem test recovery in the Mississippian, the decision was made by operator to plug and abandon said well as a dry hole. The Thompson #8 was plugged on 12.16.11.

The original drill time for the Thompson #8 ran 2' high to the electric log from the Heebner through the Cherokee Shale, and 4' high to the electric log from 4530' to the old TD. Drill time curves have thus been shifted to match the electric log curves anywhere from 2'-4' deeper/lower.

Following the drill down phase of the Wood #1 'OWWO', it was observed that the drill time curves varied roughly 3' deep to the electric log curves, thus the drill time has been shifted 3' shallow/higher.

The second set of electric logs ran on the Wood #1 'OWWO', performed by Tucker Wireline Services, show a number of the shallower beds coming in on average 2' shallow/higher than what was originally reported from the first set of logs. The imported gamma ray curve is from the pass performed by TWS, and those logs will be used to further analyze the well for completion purposes.

Sample evaluation and geologic supervison provided by Geologist Gary F. Gensch from 3780' - 4569'. All descriptions through this interval have been imported from original geologic report for Vincent Oil's Thompson #8.

Sample evaluation and geologic supervision provided by Geologist Derek W. Patterson from 4569' to drill down Total Depth.

LassoEnergy LLC

DAILY DRILLING REPORT

Company: Lasso Energy, LLC
P.O. Box 465
Chase, KS 67524
Contact: Bruce Kelso
Cell: 918.633.9655
Geologist: Derek W. Patterson
Cell: 316.655.3550
Office: 316.558.5202
Drilling Contractor: Val Energy, Inc. - Rig #3
Toolpusher: Greg Davidson

Workover Well: Wood #1 'OWWO'
Original Well: Vincent Oil - Thompson #8
Location: 1320' FSL & 2245' FEL
Sec. 30 - T26S - R16W
Edwards Co., KS
Elevation: 2097' GL - 2107' KB
Field: Wildcat
API: 15-047-21602-0001
Surface Casing: 8 5/8" set @ 479' KB
Workover Spud Date: January 9, 2012
Drilling Complete: January 11, 2012

DATE	7:00 AM DEPTH	PREVIOUS 24 HOURS OF OPERATIONS
1.11.2012	4819'	Wash down original well to old TD of 4569'. Run in and circulate new mud into system. Geologist Derek W. Patterson on location 1125 hrs 1.10.12. Delivery and set-up of gas detector. Rig was off by 1 joint and ended up reaming through an entire connection. Resume drilling new hole, 2200 hrs 1.10.12. Drilling and connections Mississippian, Kinderhook, Kinderhook Sand, and into Viola. Made 252' over past 24 hrs of operations. DMC: $1,715.15 CMC: $6,912.50
1.12.2012	RTD - 4979' LTD - 4978'	Drilling and connections Viola, Simpson, and into Arbuckle ahead to RTD of 4979'. RTD reached 1735 hrs 1.11.12. CTCH, short trip, CTCH, TOH for open hole logging operations, 2140 hrs 1.11.12. Commence open hole logging operations, 0000 hrs 1.12.12. Open hole logging operations complete, 0430 hrs 1.12.12. Orders received to run 5 1/2" producting casing to further evaluate the Wood #1 'OWWO'. Geologist Derek W. Patterson off location, 0530 hrs 1.12.12. Made 160' over past 24 hrs of operations.

LassoEnergy LLC

WELL COMPARISON SHEET

	DRILLING WELL				COMPARISON WELL			
	Lasso Energy, LLC - Wood #1 'OWWO' 1320' FSL & 2245' FEL Sec. 30 - T26S - R16W 2107 KB				Vincent Oil Corp - Thompson #6 30' W S/2 NE SW Sec. 30 - T26S - R16W Oil - Pleasanton 2111 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
King Hill			3644	-1537	3648	-1537		0
Queen Hill			3745	-1638	3745	-1634		-4
Heeber			3874	-1767	3874	-1763		-4
Toronto			3890	-1783	3891	-1780		-3
Douglas			3907	-1800	3904	-1793		-7
Brown Lime			4018	-1911	4018	-1907		-4
Lansing			4036	-1929	4035	-1924		-5
Muncie Creek			4176	-2069	4171	-2060		-9
LKC 'H' Zone			4179	-2072	4174	-2063		-9
Stark			4257	-2150	4253	-2142		-8
Swope			4262	-2155	4263	-2152		-3
Hushpuckney			4300	-2193	4299	-2188		-5
Base Kansas City			4330	-2223	4328	-2217		-6
Pleasanton			4344	-2237	4344	-2233		-4
Marmaton			4383	-2276	4387	-2276		0
Pawnee			4469	-2362	4463	-2352		-10
Fort Scott			4489	-2382	4484	-2373		-9
Cherokee			4503	-2396	4498	-2387		-9
Cherokee Sand			4545	-2438	Not Called			
Mississippian			4550	-2443	4524	-2413		-30
Old LTD			4569	-2462	N/A			
Kinderhook	4606	-2499	4602	-2495	4584	-2473	-26	-22
Kinderhook Sand	4618	-2511	4615	-2508	4598	-2487	-24	-21
Viola	4691	-2584	4681	-2574	Not Penetrated			
Simpson	4831	-2724	4828	-2721				
Arbuckle	4913	-2806	4911	-2804				
Final Total Depth	4979	-2872	4978	-2871	4648	-2537	-335	-334

Deepening

LassoEnergy LLC

GENERAL INFORMATION

DEVIATION SURVEY	
Depth	Survey
480'	1°
3152'	1 1/4°
4569'	1°

PIPE STRAP	
Depth	Pipe Strap
4569'	1.87' Short to Board

BIT RECORD								
Bit #	Size	Make	Type	Serial Number	Depth In	Depth Out	Feet	Hours
1	7 7/8"	JZ	Rock	D31760	Wash Down			
2	7 7/8"	JZ	RR	PP7781	4569'	4979'	410'	21.25

SURFACE CASING RECORD	
12.09.2011	Ran 11 joints of new 23#/ft 8 5/8" casing, set @ 479' KB. Cemented with 475 sacks of 60/40 POZ (2% gel, 3 % calcium chloride). Cement did circulate. Plug down @ 1615 hrs 12.09.11.

PRODUCTION CASING RECORD	
1.12.2012	Ran 128 joints of 5 1/2" production casing, tallying 4960.28', set @ 4961' KB. Cemented with 160 sacks to 4000' KB.

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC.

Vincent Oil Co

155 N Market Ste 700
Wichita, KS 67202

ATTN: Gary Gensch

30-26S-16W Edwards

Thompson 8

Job Ticket: 44050 **DST#: 1**

Test Start: 2011.12.15 @ 22:00:37

GENERAL INFORMATION:

Formation: **Tight Hole**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:05:37
Time Test Ended: 06:41:37

Test Type: Conventional Bottom Hole (Initial)
Tester: Leal Cason
Unit No: 45

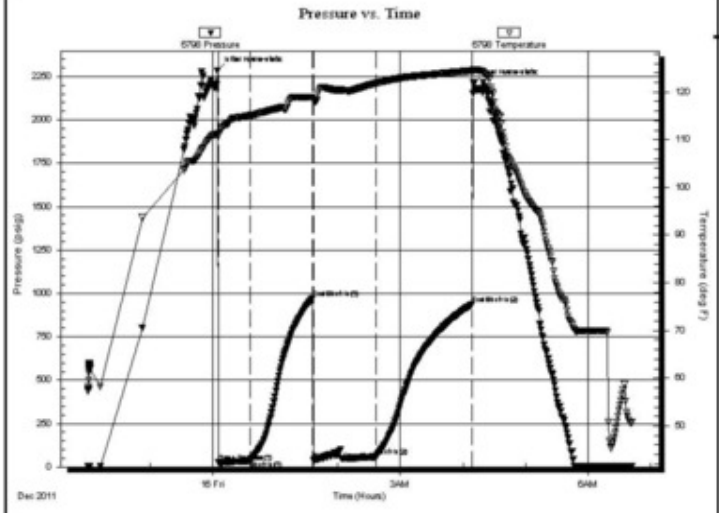
Interval: 4508.00 ft (KB) To 4565.00 ft (KB) (TVD)
Total Depth: 4565.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2105.00 ft (KB)
2097.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6798 **Inside**
Press@RunDepth: 58.71 psig @ 4509.00 ft (KB)
Start Date: 2011.12.15 End Date: 2011.12.16
Start Time: 22:00:38 End Time: 06:41:37

Capacity: 8000.00 psig
Last Calib.: 2011.12.16
Time On Btm: 2011.12.16 @ 00:04:37
Time Off Btm: 2011.12.16 @ 04:10:07

TEST COMMENT: IF: Fair Blow , Built to 9 1/2 inches
ISI: No Blow back
FF: Fair Blow , Built to 10 inches
FSI: No Blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2284.58	111.34	Initial Hydro-static
1	24.71	110.77	Open To Flow (1)
32	38.84	115.06	Shut-In(1)
92	973.35	118.97	End Shut-In(1)
93	39.78	118.28	Open To Flow (2)
152	58.71	121.83	Shut-In(2)
245	938.29	124.49	End Shut-In(2)
246	2212.06	124.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
0.00	150 Feet GIP	0.00
85.00	SGOWCM 5%G 5%O 5%W 85%M	1.19

Gas Rates

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

ROCK TYPES

LITHOLOGY
Anhy
Bent
Brec
Cht
Clyst
Coal
Congl
Dol
Gyp
Igne
Lmst
Meta
Mrlst
Salt
Shale
Shcol
Shgy
Sltst
Ss
Till
Sltstn
Shale
Sandylms
Lms
Gry sh
Dtd
Dol
Carb sh
pipesymbol

unknown lith
Red shale

FOSSIL
Oomoldic
Fuss
Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Crin
Echin
Fish
Foram
Fossil
Gastro
Oolite
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

MINERAL
Slty
Sand
Dol
Chlorite
Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Chtdk
Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt
Sandy
Silt
Sil

Sulphur
Tuff

STRINGER
Red shale
Sh
Sandylms
Lms
Grysltt
Grysh
Dol
Clystn
Carbsh
Anhy
Arg
Bent
Coal
Dol
Gyp
Ls
Mrst
Sltstrg
Ssstrg

TEXTURE
Boundst
Chalky
Cryxln
Earthy
Finexln

Grainst
Lithogr
Microxln
Mudst
Packst
Wackest

OIL SHOW
Gas show
Good
Fair
Poor
Dead

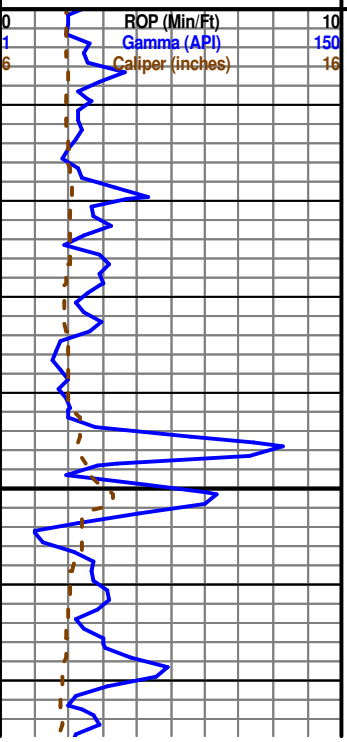
INTERVAL
Dst
Core
Dst
Straddle test t

EVENT
Rft
Sidewall
Dst
Open hole
Perforations

Curve Track 1
ROP (Min/Ft)
Gamma (API)
Caliper (inches)

Depth | Lithology | Oil Shows | Geological Descriptions

Engineering Data
TG (Units)
C1 (units)
C2 (units)
C3 (units)
C4 (units)
C5 (units)



Lasso Energy, LLC
Wood #1 'OWWO'
1320' FSL & 2245' FEL
Sec. 30 - T26S - R16W
Edwards Co., KS

API: 15-047-21602-0001
Elevation: 2097' GL
2107' KB

Geologist: Derek W. Patterson

Drilling Contractor: Val Energy, Inc. - Rig #3

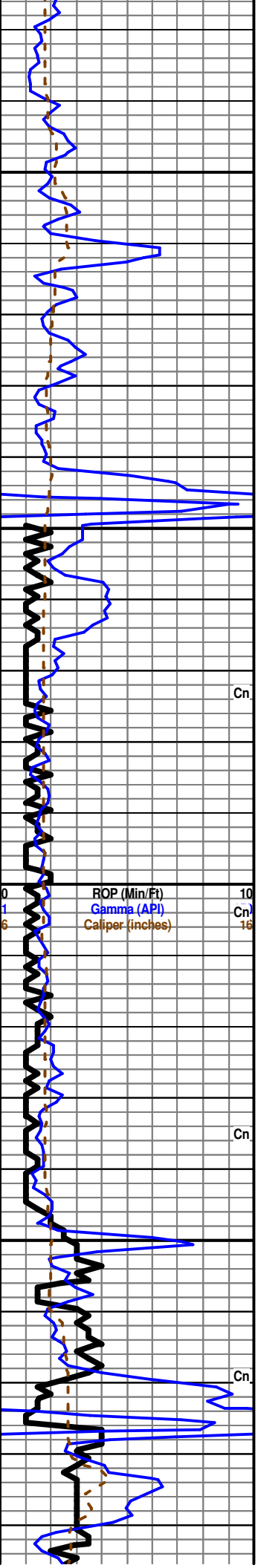
Toolpusher: Greg Davidson

Drillers: Daylight: Josh Holloway
Evening: Michael Rice
Morning: Andrew Stackhouse

Mud Company: Mud-Co/Service Mud
Mud Engineer: Justin Whiting

0 TG, C1-C5 100

Please Note:
Old KB is 2' shallow to new KB.



Logging Company: Tucker Wireline Services
Logging Engineer: Ronald Franklin

Gas Detector: Bluestem Environmental
Bloodhound Unit 0258 on location and operational @ 4569'. The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Bloodhound Unit 0258. Said DATA was imported and displayed on this Geologic Report.

Queen Hill 3745 (-1638)

Sample evaluation and geologic supervison provided by Geologist Gary F. Gensch from 3780' - 4569'. All descriptions through this interval have been imported from original geologic report for Vincent Oil's Thompson #8.

Ls, crm-wht, fn-xln to scat md-xln, p intr-xln por, no stn,W/Ls, crm motld tn, v. sli foss-gran, arg-chlky, p intr-gran por, no stn, no odr, no fluor, NS.

Ls, crm-lt tn, fn-md xln, p-fr intr-xln & scat p ppt por, carb in prt, no stn/sat, no fluor, w/ Clystn, dk-gy to blk, carb, sm Sh, red-grn, no odr, NS.

0 TG, C1-C5 100

Ls, crm-lt tn to lt gy, tn, fn-md xln, carb & foss in prt, arg-chlky, mny: no vis por, w/Sm:p-fr intr-xln por, scat p ppt por, sparry in prt, no stn, no fluor, no odr, NS. W/Inc in Sh, lt-md gy, grn-gy, grn.

Ls, crm to lt tn, fn-md xln, carb & foss in prt, chlky, Sm granulr textr, p-fr intr-xln por, scat p-fr ppt por, no stn, w/iso foss frags, no stn, no fluor w/inc Clystns, lt gy, brn, prpl, dk-grn gy.

Ls, crm-wht, fn-md xln, grainy texture,sli- foss, p-fr intr-xln por, no stn, no fluor, w/Ls, wht, fn-xln to chlky, p intr-xln por, no stn, no fluor, no odr, NS. Inc in Chlk, wht-crm, sft w/Clystns, dk-gy, grn-gy, lt gy, rd-brn. (spl pulverized)

Ls, crm-lt tn, v.fn-fn xln to chlky in prt, no vis por w/occ scat p-fr iso ppt por, no stn, no fluor, w/Ls, crm-wht, fn-ln to chlky, no vis por, sli carb, no stn, no fluor, no odr, NS. w/Clystns, aa.

Ls, crm-wht to lt tn, fn-cse xln, sparry,gran-foss in prt, p-fr intr-xln por to no vis por, sli carb, no stn, no fluor, no odr, NS. w/Sli inc Sh, blk, carb, fissle, w/Inc Clystns, dk-gy, lt gy, lt grn-gy, grn.

Ls, crm-tn, aa w/inc in chlky matrix, p intr-xln por, no stn, w/Ls, crm-tn, cse-fn suc, dolo, p por, no stn, no fluor, no odr,NS. W/sig inc in Sh, gy, md-gy.

Heebner 3874 (-1767)

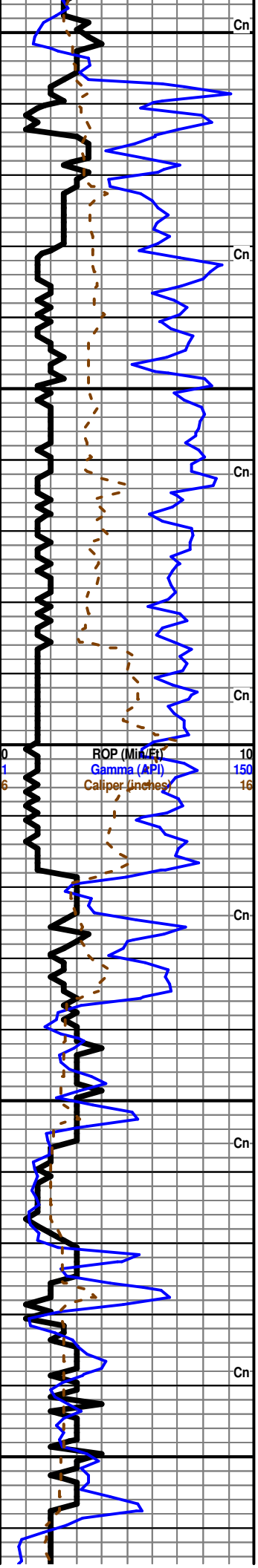
Heebner Shale Gas Kick: ~25 Units

Tr Blk carb Sh, coally to sli fissle, v. sli bldg gas bbls, w/Ls, crm-gy, n-xln to chlky, carb partgs, p intr-xln por, no stn, no fluor, no odr,NS. W/sig inc Clystns, dk-grn-gy, lt grn-gy, md-lt gy.

Ls, crm-tn-lt gy, fn-md xln, sli foss, p intr-xln por, no stn, w/Ls, crm, fn-xln, arg, p por, no stn, w/Much Clystns, dk-grn-gy, lt grn-gy, md-lt gy, Much blk carb Sh bleeding gas bbls.

Toronto 3890 (-1783)

Ls, crm-tn to lt gy, fn-md xln, grainy-gran surf, chlky, scat p-fr ppt por, iso p. vug, sparry-md-cse calc



xls, no stn, no fluor, no odr, NS.

Ls, crm to tn, v.fn to fn-xln, chlky in prt, p intr-xln to no vis por, , no stn, no fluor,W/ tr Ls, crm-tn, fn-xln, carb partgs, p intr-xln por, no stn, no fluor, no odr, NS.w/Clystns, blk carb, dk-grn gy.

Douglas 3907 (-1800)

Fld Sh & Clystn, blk, carb, sli fissle, dk-gy, dk grn-gy to lt gy, laminated, brn, rd-brn W/Tr's Ls, crm to brn, mottld, p intr-xln por, arg-chlky, no stn/sat, no odr/fluor, NS.

Ls, crm-wht to gy, fn-xln to chlkyp intr-sln por, no stn, no fluor, no odr, NS. W/ Sh's aa & Clystn, lt grn-gy, wxy, dk-grn gy to lt grn gy, brick rd.w/Cly, gumbo, lt grn-wht.

Fld Sh's, dk grn-gy to lt gy, sm brn-rd, w/Tr's Ls, crm, tn, carb, v.p. to no vis por, tight, barren, chlky, no stn, no fluor, no odr, NS. w/Cly, gumbo, lt grn-gy.

Sh's, dk grn-gy to lt gy, sm brn-rd, w/Tr's Ls, crm, tn, carb, v.p. to no vis por, tight, barren, chlky, no stn, no fluor, no odr, NS. w/Cly, gumbo, lt grn-gy

Ls, crm, lt tn-tn, fn-md xln, sli-grainy to sb-gran textur,carb partgs, chlky in prt, p. intr-xln por, Num: embdd foss frags, no stn, scat dull gldn minfluor,w/ MuchClystns, dk-md gy, grn-gy, rd-brn.

Tr Ls, aa w/scat dull min fluor w/Tr Dol, wht-crm, suc, arg, p intr-xln por, no stn, no fluor, w/Inc Clystns, dk-gy, dk grn-gy, grn, rd-brn. Tr Sh, blk, carb-coaly.

Sh & Clystn, dk-lt gy, md-lt grn-gy, sm brn-rd aa.Sm Ls, tn, lt gy, fn-md xln,hrd, carb partgs, p intr-xln por, no stn, no fluor, no odr, NS.

Clystns, dk-lt gy, lt grn-gy, grn, rd-brn, w/Tr's Slt Stn, lt grn, sli-sndy, no por, no stn, w/Ls's, crm, tn, brn, fn-xln to md xln, chlky, spkld-pyr, Sm: sb-gran sli foss, no vis por, no stn, NS.

Clystns, dk-lt gy, lt grn-gy, grn, rd-brn, w/Tr's Slt Stn, lt grn, sli-sndy, no por, no stn, w/Ls's, crm, tn, brn, fn-xln to md xln, chlky, spkld-pyr, Sm: sb-gran sli foss, no vis por, no stn, NS. Tr's Sh, blk, carb, sli-fissl.

Clystns, dk-lt gy, lt grn-gy, grn, rd-brn, w/Tr's SltStn, lt grn, sli-sndy, no por, no stn, w/Ls's, crm, tn, brn, fn-xln to md xln, chlky, spkld-pyr, no vis por, no stn, NS.

0 TG, C1-C5 100

Clystn, dk-lt gy, md-lt grn-gy,dk-grn, silty in part, sm brn-rd.Sm Tr's Ls, crm, tn, v.fn-fn xln, p to no intr-xln por, no stn, no fluor, no odr, NS.

Brown Lime 4018 (-1911)

Ls, tn-brn to dk.brn, few: sli-mottld tn, v.fn xln to micritic, tight, no vis por, no stn, no fluor, no odr, NS. W/Clystns, grn-gy, dk-grn-gy, md gy, rd-brn, brn.

Much Clystn, dk-grn, grn-gy, dk-md gy,

Lansing 4036 (-1929)

Ls, crm, fn-md xln, grainy- suc surface texture, sparry, chlky, p intr-intr-xln por, embdd w/lg rrd Ls & foss frags (horn corals), no stn, no fluor, w/Ls, crm-lt tn, fn-md xln, p-fr iso intr-xln por, no stn, no odr, no fluor, NS.

Ls, crm-lt tn, v.fn to fn-xln to fn-suc, sli chlky, sparry, p intr-xln por to no vis por, iso p.ppt por, no stn, sptty fr min fluor, NS.

Sh, md-lt gy, grn-gy, rd-brn.

Ls, crm-tn, mottld, fn-md xln, gran-foss, sparry, chlky in prt, p intr-xln por, iso p-fr ppt por, no stn, no fluor, w/Tr Chrt, tn, trnsl, NS.

Ls, crm-tn to brn, fn-md-xln, Sm: fn-suc, gran texture & foss in prt, w/dolo streaks, p-fr intr-xln por, scat p-fr .ppt por, chlky in prt, no stn, no fluor, no fluor, NS. w/free foss, corals.

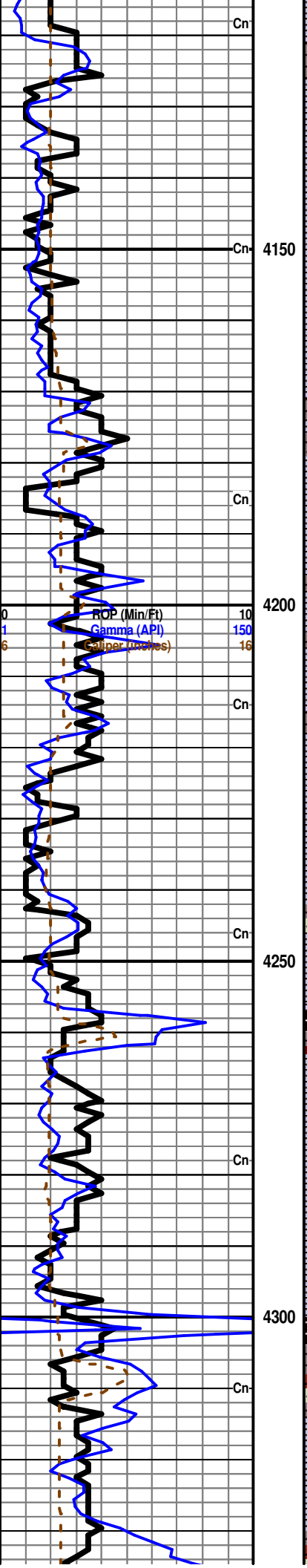
Ls, crm, lt tn, tn-gy, mottld, v.fn-fn xln, grain to gran, carb, chlky in prt, fainly ool, p intr-xln por, Sm: iso-scat p-fr foss & ppt por, no stn, tr's v.dull scat min fluor, no odr, NS.

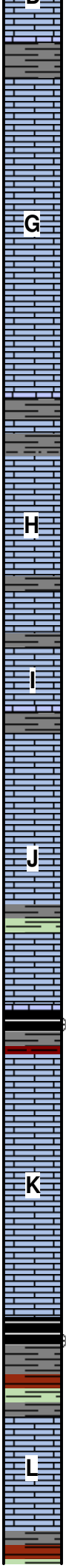
Ls, crm-tn, lt gy, fn-md xln, foss, p intr-xln por, chlky in prt, carb, scat iso p-fr foss & ppt -vug por, .no stn, no fluor, no odr, NS. w/Sh, md-lt gy, grn-gy, rd-brn.

Ls, crm-lt gy, lt-tn, fn-xln, carb & chlky in prt, p intr-xln por, no stn, no fluor, w/Tr Ls, tn, fn-xln embdd w/foss-gran frags, p por, no stn, no fluor, no odr, NS.Tr Sh, blk, carb-coaly,Inc in Clystns, v-c.

Sig Inc Clystns, dk-gy-lt gy, grn, grn-gy, rd-brn, Tr Sh, blk, carb, fissl.

Ls, crm-tn, brn,fn-md xln, sli-foss, sparry, p intr-xln por, iso p ppt por, no stn, no fluor, w/Chrt, tn-brn





layrd wht, trnsl, hd, NS.

Ls, crm-tn, brn, fn-md xln, sli-foss, sparry, p intr-xln por,Few: iso-scat p-fr to gd ppt & vug por, no stn, Tr's Chrt, wht, brn, tn, tnsl-opq, no fluor, Clystns, dk-gy-lt gy, grn, grn-gy, rd-brn, Tr Sh, blk, carb, fissl. no odr, NS.

Clystns, aa.Much Ls, crm-wht, crm-gy, mottld dk gy carb inclusn, fn-md xln, chlky, foss, p intr-xln por, no stn, w/ Chrt, wht, tn. Crm, opq, foss, no stn, no fluor, no odr, NS.

Tr's Ls, crm, fn-md xln, suc in part, granulr, embdd w/cse-lg rdd grns, p-fr scat ppt & intr-xln por,w/Ls, wht-cm, fn-ln, chlky, p por, no stn, Chrt,tn, crm, wht, opq-trnsl,no stn,no fluor, no odr, NS.

Ls, crm-tn,mottld, carb, mealy, foss, p intr-xln por, no stn, w/Ls, dk-tn to brn, micro-xln to fn-xln, p to no vis por, no stn, w/Tr's Chrt, lt-gy mottld tn, wht, shrp, opq, foss, w/Tr Ls, ool, wht, not vis por, no stn, no fluor, no odr, NS. W/Clystn, dk-md gy.

Tr's Ls, dk-tn, micro-xln to fn-xln, foss, no vis por, no stn, no fluor w/Ls, crm, mottld, tn, brn, v.fn-fn xln, sli foss, p to no vis por, no stn, no fluor, Tr's Ls, bf-tn, ool-oom, p-fr oom/ ppt/ sli vug por, no stn/sat,w/Chrt, wht, gy mottld tn, foss, shrp, opq, NS. w/Clystn, dk-md gy.

Muncie Creek 4176 (-2069)

Sh, dk-lt grn-gy, grn, rd-brn.

Tr's Ls, crm-lt tn, tr sb-gran-ool, sli-foss, arg-chlky, fn-md-xln,p-fr intr-xln por, no stn, w/tr Ls, lt gy-tn, p. iso oom por, not dev, no stn, W/ Ls, crm-tn,p intr-xln por, no stn, w/ tr Chrt, milky wht, spkld, opq-trnslt, no stn, tr v.p. spty dull min fluor, no odr, NS.

LKC 'H' Gas Kick:
~ 14.5 Units

Ls, crm mottld tn, fn-md xln, chlky, p-fr intr-xln por, iso fr ppt por, sli foss, Tr sli p. oom por, no stn, no fluor, w/ dk gy Sh, carb, no vis por, no stn, no fluor, w/Inc Clystn, rd-brn, grn-gy, dk-md gy.

Ls, crm, fn-md xln, sb-gran to ool, poorly dev, p intr-xln/grn por, iso p-fr ppt por,no stn, no fluor w/Ls, crm-wht, chlky, fn-xln, no stn, w/Chrt, wht-clr, no stn, sat, no fluor no odr, NS. Inc Clystns, dk-lt gy, grn-gy, rd-brn.

0 TG, C1-C5 100

W/Depth: Ls, aa, fn-md xln, sb-gran, p intr-xln por, no stn, no fluor w/Ls, crm-brn, mottld, fn-xln, carb in prt, p to no intr-xln por, chlky, no stn, w/Chrt, wht, tn, crm, opq, no stn, no odr, NS.

Tr Sh, blk, carb, fissl, w/Clysgtns, grn-gy, lt gy, varigated rd-grn.

Ls, crm-wht, fn-xln, sli sb-gran, arg to chlky, p intr-xln/gran por, lt brn carb lam, no stn, scat p min fluor w/ Chrt, clr, wht, cm, tn, trnsl to opqfluor, shrp, spkld in prt, no stn, no fluor, no odr, NS.

Tr's Ls, crm-lt gy, micro-oom, irreg size oom's, p- iso fr oom por, barren, no fluor, w/Ls, crm, v.fn-md xln, sb-grn to sb-ool, arg to chlky, p dev, p intr-xln por, Few: scat p ppt por, no stn, no fluor w/tr's Chrt, clr crm, tn trnslnt to opq, no fluor, no odr, NS.

Shale Kick:
~ 12.5 Units

Clystns, dk-md gy, grn-gy, rd-brn varigated, w/ Much Ls, crm-tn, ool to p-fr oom, scat p oom por, iso f-gd oom por, in fn-xln matrx, sli chlky, no stn, no fluor, w/Ls, crm, v.fn-fn xln, no vis por, dse, chlky, no stn, no fluor, no odr, NS.

Stark 4257 (-2150)

Fld Sh, dk-lt gy, grn-gy, grn, rd-brn, Sh, blk, carb, sli-fissle.

Stark Shale Gas Kick:
~ 14 Units

Ls, crm-lt gy, oom in fn-xln,chlky, micro-med oom dev, p-fr oom por, no stn, w/Ls, crm-wht, v.fn-xln to micritic, p intr-xln por, arg-chlky, chrty,no stn, no fluor, no odr, NS.

Ls, crm-wht, gran-sb-oom, fn-md-xln, p-fr intr-xln por,w/scat p-fr ppt por, no stn, no fluor. w/Ls, wht, fn-xln to chlky, p intr-xln por, no stn, no fluor, w/Tr's Chrt, wht, clr, trnsl-opq, shrp, no odr, NS.

Ls's aa, with sli inc in Clystns, grn-gy, dk-md gy, rd-grn.

Ls, crm-wht, gran-sb-oom, fn-md-xln, p-fr intr-xln por,w/scat p-fr ppt por, no stn, no fluor. w/Ls, wht, fn-xln to chlky, p intr-xln por, no stn, no fluor, w/Tr's Chrt, wht, clr, trnsl-opq, shrp, no odr, NS.

Ls, crm-wht, fn-xln to chlky, grainy, embdd foss-gran frags, granulr, p-fr intr-xln por, iso-scat p ppt por, occ p vug por, no stn, dull min fluor, no odr, NS. Inc in Clystns, lt-dk gy, grn-gy, rd-grn.

Hushpuckney 4300 (-2193)

Sh, blk, carb, sli-fissle.

Hushpuckney Shale Gas Kick:
~ 22 Units

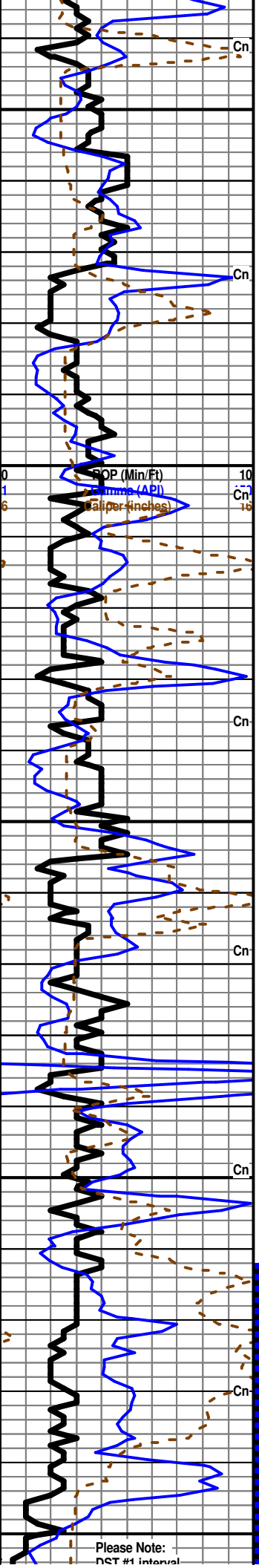
Inc in fresh Clystns, lt-dk gy, grn-gry, rd-brn to grn.

Ls, crm-wht, fn-xln to chlky, grainy texture, p intr-xln por, no stn, Sm: scat p ppt por, barren, no fluor, no odr, w/Clystns, lt-dk gy, grn-gry, rd-brn to grn. Tr's Chrt, lt tn, tn, crm, trnslnt-opq, shrp & blocky. Tr SS, clr, md-grn, wll-srt, cln, fri, no stn, no fluor, NS.

Ls, crm-wht, fn-xln to chlky, grainy texture, p intr-xln por, no stn, Sm: scat p ppt por, barren, no fluor, no odr, NS.

Base Kansas City 4330 (-2223)

Inc in Clystn, dk-lt gy, grn-gy, rd-brn, Tr Blk carb Sh, bleedg gas bbls. Ls, crm-tn, lt gy, granulr textr,



embbd w/Tr faint Ls frags, p intr-xln por to scat p-fr vug-ppt por, no stn, v.dull scat min fluor, W/Ls, crm, fn-xln,carb, chlky, no por, no stn, no odr, NS.

Pleasanton 4344 (-2237)

Shale Gas Kick: ~ 11 Units

Much Ls, crm, tn-brn, gy, mottld, grainy surf texture, v.fn-fn xln, hd, dse, no vis por on most, no fluor w/Ls, crm-wht, fn-md xln, arg-chlky, p intr-xln por, no stn, nofluor. Tr Chrt, brn-tn, trns, shrp, no odr, NS

Ls, bf-tn, md-xln,scat gy spcks, grainy surf, p intr-xln por, tight, sli-arg,no stn/fluor w/Ls, brn, tn, crm gy mottld, v.fn-xln, tt, no vis por, no stn.Base: Ls,tn,brn,micritic,dse, v.hd,no odr,no fluor, NS.

Ls,crm intrlyrd w/gy sh partings,gran, chlky fn-md xln, arg, tight, p intr-xln por, no stn, no fluor,NS wSig inc in Clytns, dk gy,dk grn gy,lt grn-gy, w/ much Cly, lt gy, gumbo.

Sig inc Sh.dk-md-gy, grn-gy, Tr Sh, blk, carb, sli-fissle.

Marmaton 4383 (-2276)

Fld Ls, crm to lt gy to bf-tn, v.fn to fn-xln, grainy surf teture, p intr-xln por, no stn/sat, no fluor, no odr, NS. W/Ls, lt tn-gy, micritic, dse, no vis por, no stn, NS.

Ls, tn, lt gy (grn tint), lt tn, lt grn varig crm, micro-fn xln, no vis por, no stn, no fluor, no odr, NS, w/ Ls, crm-wht, fn-xln, chlky, no vis por, no stn/fluor/odr, NS.w/Clystns, grn, lt-dk gy, grn-gy, brick-rd.

0 TG, C1-C5 100

Ls, tn to dk-gy, crm, micrtic -v.fn-xln, dse, arg, no vis por, no stn, NS W/Ls, crm-wht, fn-xln, chlky, no vis por, no stn, scat dull min fluor, Fld Sh, dk-md gy, sli fissle. w/Clystns, dk-grn, dk gy, lt-grn.

Fld Sh, blk, w/Clystns, dk-grn-gy, dk-lt gy, lt grn-gy, Ls, crm, bf, lt-gy, brn, micrtic to fn-xln, sm: sli foss-sb ool, p intr-xln por, no stn, scat p. dull fluor, no odr, NS. Tr Chrt, tn, shrp, opq.

Ls, crm, lt-gy, grn-gy,bf-tn, brn, micritic, fn-xln, sli sb-foss & chrty in prt, dse, p intr-xln por, no stn/sat, no odr. w/Much Clystns, dk-grn-gy, dk-lt gy, lt grn-gy.purple-gy.

Intrbdd w/Sh, gy, grn-gy. Ls, crm, lt-grn-gy, lt gy, micrtic to fn-xln, sm: chlky wht, sm: sli foss, p intr-xln por, no stn, scat p. dull fluor, no odr, NS.

Ls, crm, lt-grn-gy, lt gy,micrtic to fn-xln, sm: chlky wht, sm: sli foss, p intr-xln por, no stn, scat v.p. dull mn fluor, Tr Ls, bf, fn-md xln, grainy, chalky, p intr-xln por, no stn, faintly foss, no odr, NS. Intrbdd w/Sh, gy, grn-gy.

Ls, crm-wht to bf-tn, fn-xln to micritic in prt, p, intr-xln por, chlky, no stn/sat, no fluor, no odr, NS. W/Sh, blk-dk gy, sli fissl, w/Clystns, dk-gy, lt gy, lt grn-gy, brick rd,

Clystns, dk-gy, lt gy, lt grn-gy,

Shale Gas Kick: ~ 14 Units

Pawnee 4469 (-2362)

Ls, crm mottld bf-tn to brn, fn-xln, p intr-xln por, v.sli-gran, whn brkn rel VSSFO mirco-bds, live/flakey oil, (oil does not fluor), dull spty fluor, no odr, full & unevn stn, partial sat, w/Ls, tn, micrtic, no por, no stn, no fluor, no odr, NS.

W/Depth Ls, crm-wht, fn-xln, chlky, p intr-ln por, no stn, no fluor, w/Ls, tn, micritic, v. fn-xln, no vis por, tight, no stn, no fluor, no odr, NS. w/tr's Sh, blk, carb, sli-fissl bleedng gas bbls & Clystns, dk-md gy, grn gy.

Shale Gas Kick: ~ 27 Units

Fort Scott 4489 (-2382)

Ls, crm to lt gy, bf tn-tn, fn-xln, p intr-xln por to no vis por, no stn, no fluor, no odr, NS.

Ls, wht-crm, lt tn mottld tn, brn, micritic to fn-xln, tight, no vis por, sli chlky, no stn, nofluor, no odr, NS.

Cherokee 4503 (-2396)

Cherokee Shale Gas Kick: ~ 13 Units

Tr's Blk carb Sh, fissle bleeding micro-gas bbls.

Ls, crm-gy, tn, grn-gy, brn, v.fn-fn xln, Sm: sli gran textr, tr sparry, no vis por, no tn, no fluor, no odr, NS. Tr's Sh, blk, carb, Tr Clystn, grn varig maroon-prpl, lt-grn, dk gy.

Cly, rd, gumbo ovr Ls,crm,wht-lt gy,fn-xln,chlky,p intr-xln por,no stn,Clystns: v-c. Sm scat uncons sd grns,fn-cse grn, clr-yel tint, rdd- sb ang,Tr Chrt,yel-clr,tn, shrp. Tr Ls, sd embbd, no por, NS.

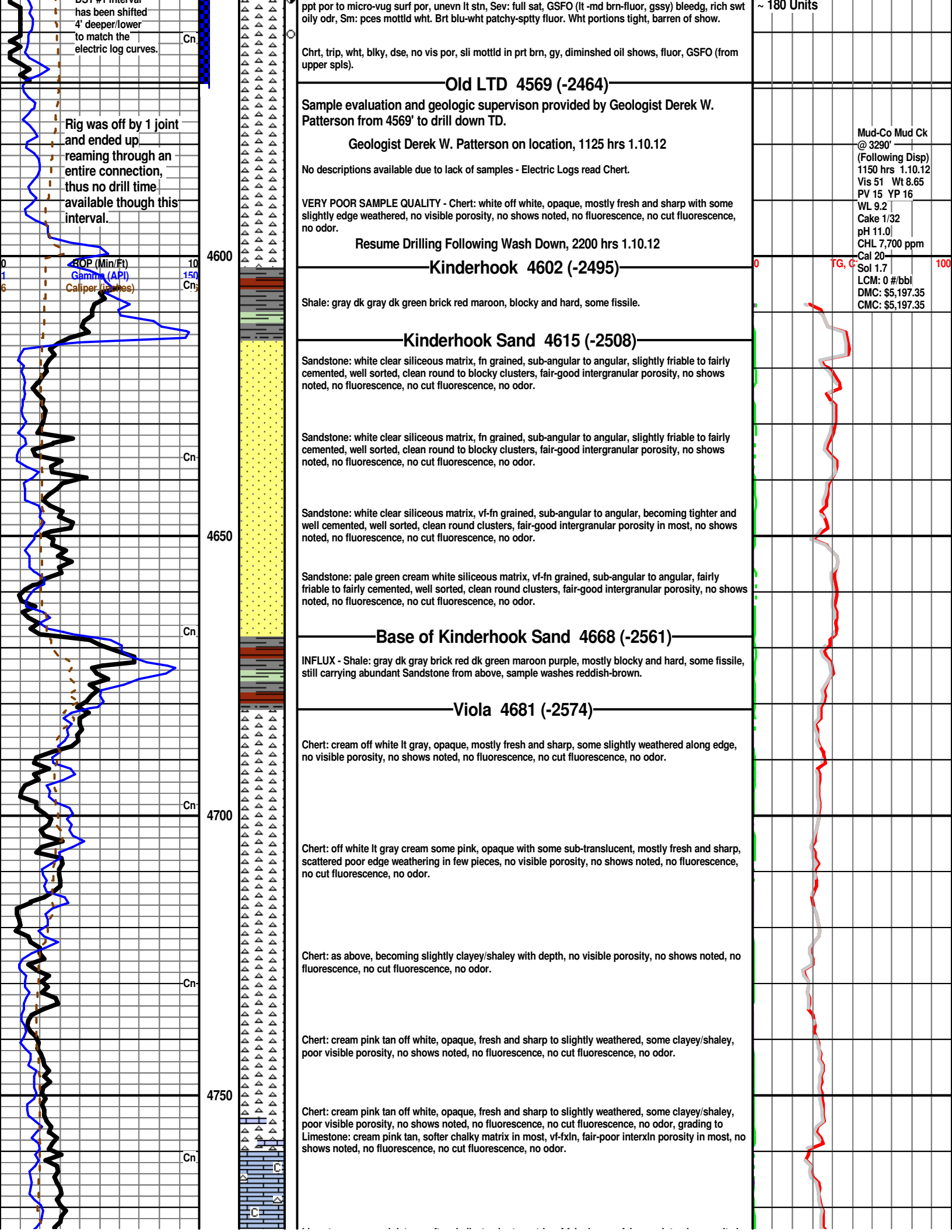
Fld Clystns, fresh, grn mottld gy w/blk carb lam, red marl mottld white, brick rd, sndy, rd varig grn w/embdd sd grns, prpl-ochr, w/Ls, tn-brn, mic, hd-sft, no vis por, no stn, w/Ls wht-gy, fn-xln, embdd sd grns/colord Ls inclusns, no fluor, no odr, NS.

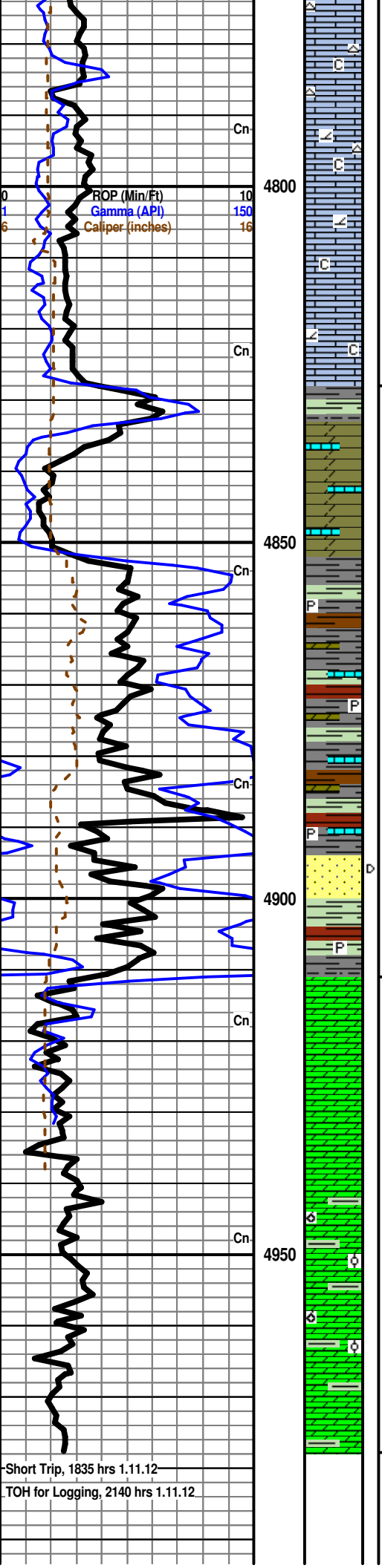
Fld SS Clstrs, lt gy, lt grn-gy, crm, v.fn grn, well srtd, rdd-sb-ang, silica cmt, tight, hrd, p intr-gran por, 1 pc: edg lt brn stn w/brt fluor, no odr, NSFO.

Mississippian 4550 (-2443)

Mississippian Gas Kick:

Chrt, trip, brn, lt gy & crm, opq, blky, dse, irreg & rough surf's: highly leachd (frac faces?) w/scat p-gd


DST #1 interval has been shifted 4' deeper/lower to match the electric log curves.
Rig was off by 1 joint and ended up reaming through an entire connection, thus no drill time available though this interval.
ROP (Min/Ft)
Gamma (API)
Caliper (inches)
0
10
150
Cn
4600
4650
4700
4750
ppt por to micro-vug surf por, unevn lt stn, Sev: full sat, GSFO (lt -md brn-fluor, gssy) bleedg, rich swt oily odr, Sm: pces mottld wht. Brt blu-wht patchy-sptty fluor. Wht portions tight, barren of show.
Chrt, trip, wht, blky, dse, no vis por, sli mottld in prt brn, gy, diminshed oil shows, fluor, GSFO (from upper spls).
Old LTD 4569 (-2464)
Sample evaluation and geologic supervison provided by Geologist Derek W. Patterson from 4569' to drill down TD.
Geologist Derek W. Patterson on location, 1125 hrs 1.10.12
No descriptions available due to lack of samples - Electric Logs read Chert.
VERY POOR SAMPLE QUALITY - Chert: white off white, opaque, mostly fresh and sharp with some slightly edge weathered, no visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Resume Drilling Following Wash Down, 2200 hrs 1.10.12
Kinderhook 4602 (-2495)
Shale: gray dk gray dk green brick red maroon, blocky and hard, some fissile.
Kinderhook Sand 4615 (-2508)
Sandstone: white clear siliceous matrix, fn grained, sub-angular to angular, slightly friable to fairly cemented, well sorted, clean round to blocky clusters, fair-good intergranular porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Sandstone: white clear siliceous matrix, fn grained, sub-angular to angular, slightly friable to fairly cemented, well sorted, clean round to blocky clusters, fair-good intergranular porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Sandstone: white clear siliceous matrix, vf-fn grained, sub-angular to angular, becoming tighter and well cemented, well sorted, clean round clusters, fair-good intergranular porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor.
Sandstone: pale green cream white siliceous matrix, vf-fn grained, sub-angular to angular, fairly friable to fairly cemented, well sorted, clean round clusters, fair-good intergranular porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Base of Kinderhook Sand 4668 (-2561)
INFLUX - Shale: gray dk gray brick red dk green maroon purple, mostly blocky and hard, some fissile, still carrying abundant Sandstone from above, sample washes reddish-brown.
Viola 4681 (-2574)
Chert: cream off white lt gray, opaque, mostly fresh and sharp, some slightly weathered along edge, no visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Chert: off white lt gray cream some pink, opaque with some sub-translucent, mostly fresh and sharp, scattered poor edge weathering in few pieces, no visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Chert: as above, becoming slightly clayey/shaley with depth, no visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Chert: cream pink tan off white, opaque, fresh and sharp to slightly weathered, some clayey/shaley, poor visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.
Chert: cream pink tan off white, opaque, fresh and sharp to slightly weathered, some clayey/shaley, poor visible porosity, no shows noted, no fluorescence, no cut fluorescence, no odor, grading to Limestone: cream pink tan, softer chalky matrix in most, vf-fxln, fair-poor interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor.
~ 180 Units
Mud-Co Mud Ck @ 3290' (Following Disp)
1150 hrs 1.10.12
Vis 51 Wt 8.65
PV 15 YP 16
WL 9.2
Cake 1/32
pH 11.0
CHL 7,700 ppm
Cal 20
Sol 1.7
LCM: 0 #/bbl
DMC: $5,197.35
CMC: $5,197.35
0
TG, C
100



Limestone: cream pink tan, softer chalky to cherty matrix, vf-fxln, barren, fair-poor interxln porosity in most, no shows noted, no fluorescence, no cut fluorescence, no odor, still carrying fair amount of Chert in sample as above, no shows noted.

Limestone: cream lt cream lt gray lt pink, dense tight slightly chalky matrix, vfxln, dolomitic in part, fair-poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor, most Chert drops out.

Limestone: cream lt cream lt gray lt pink some tan, dense tight slightly chalky matrix, vf-fxln, dolomitic in part, fair-poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor.

Simpson 4828 (-2721)

INFLUX - Shale: gray dk gray dk green some teal green, mostly blocky and hard with some softer and waxy, fissile in part.

Dolomite: cream lt cream lt gray lt pink, dense tight matrix, vfxln, fair-poor rhombic development, many pieces quite limey, fair-poor interxln porosity, no shows noted, no fluorescence, no cut fluorescence, no odor (could be dolomitic Limestone).

INFLUX - Shale: gray dk gray teal green dk green some dk brown and dk red, blocky and hard, some fissile, pyritic in part, with scattered limey Dolomite to dolomitic Limestone as above.

Shale: gray dk gray teal green dk green dk brown dk red, blocky and hard, some fissile, pyritic in part, with continued scattered Dolomite and Limestone as above (from uphole?), no shows noted.

Shale: as above, with some scattered Dolomites and Limestones, and interbedded Sandstone: white lt gray siliceous matrix, fn grained, angular, poor sorted, small blocky to rounded dirty micaceous clusters, fair intergranular porosity in most, few pieces with very poor dk brown dead stain, no live shows noted, no fluorescence, no cut fluorescence, no odor.

Shale: gray dk gray flood teal green dk green dk brown dk red, blocky and hard, some fissile, pyritic in part.

Arbuckle 4911 (-2804)

Dolomite: lt cream cream lt gray, dense tight matrix, f-microxln, fair-poor rhombic development, barren, poor interxln porosity, no shows noted, even lt pale yellow mineral fluorescence, no cut fluorescence, no odor.

Dolomite: lt cream cream tan, dense tight matrix, f-microxln, fair-poor rhombic development, barren, scattered 2ndary xln along edges in most, poor interxln porosity, no shows noted, even lt pale yellow mineral fluorescence, no cut fluorescence, no odor.

Dolomite: cream lt cream tan, mostly dense matrix, vf-fxln, fair rhombic development in most, scattered sub-oomoldic, fair interxln/oomoldic porosity in majority of sample, no shows noted, even lt pale yellow mineral fluorescence, no cut fluorescence, no odor, with trace Shale: teal green, blocky and hard.

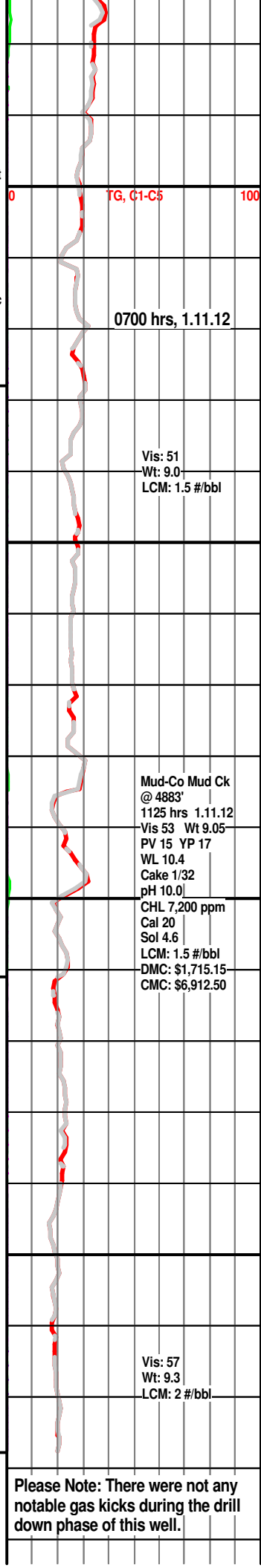
Dolomite: tan cream lt cream, dense matrix, vf-fxln with some scattered coarsexln, fair rhombic development in most, scattered sub-oomoldic and sub-oolitic, fair-poor interxln/oomoldic porosity, no shows noted, even lt pale yellow mineral fluorescence, no cut fluorescence, no odor, with scattered Shale: teal green, blocky and hard.

Dolomite: lt cream cream lt tan, dense matrix, vf-fxln, fair rhombic development in most, fair-poor interxln porosity, no shows noted, even lt pale yellow-green mineral fluorescence, no cut fluorescence, no odor, with scattered Shale: teal green, blocky and hard.

LTD 4978 (-2871)
RTD 4979 (-2872)

Rotary TD @ 4979', 1735 hrs 1.11.12

Tucker Wireline Services Open Hole Logging TD @ 4978'



Please Note: There were not any notable gas kicks during the drill down phase of this well.

0	ROP (Min/Ft)	10
1	Gamma (API)	150
6	Caliper (inches)	16

5000

Commence Open Hole Logging Operations, 0000 hrs 1.12.12

Complete Open Hole Logging Operations, 0430 hrs 1.12.12

Orders Received to Run 5 1/2" Production Casing

Geologist Derek W. Patterson off location, 0530 hrs 1.12.12

Respectfully Submitted,
Derek W. Patterson

0	TG, C1-C5	100

FIELD SERVICE TICKET

1718 05517 A

BASIC ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

DATE TICKET NO.

DATE OF JOB 1-12-2012 DISTRICT PRATT, KS.	NEW WELL ☑ OLD WELL ☐ PROD ☐ INJ ☐ WDW ☐ CUSTOMER ORDER NO.:
CUSTOMER LASSO ENERGY, LLC	LEASE WOOD 'OWWO' WELL NO. 1
ADDRESS	COUNTY EDWARDS STATE KS.
CITY STATE	SERVICE CREW LESLEY, LAWRENCE, BOWERS
AUTHORIZED BY	JOB TYPE: CNW - 5 1/2" L.S. 'OWWO'

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS
37586					
19889-19905					
19831-19862					

	DATE	AM/PM	TIME
TRUCK CALLED	1-12-12	AM PM	10:30
ARRIVED AT JOB		AM PM	1:50
START OPERATION		AM PM	1:15
FINISH OPERATION		AM PM	9:30
RELEASED		AM PM	10:30
MILES FROM STATION TO WELL			

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: X
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	$ AMOUNT
CP 105	AA2 CEMENT	SK	160		
CP 103	60/40 POZ	SK	30		
CC 105	C-41P	lb	31		
CC 111	SALT	lb	806		
CC 112	CEMENT FRICTION REDUCER	lb	46		
CC 201	GILSONITE	lb	800		
CC 129	FLA-322	lb	76		
CF 1251	AUTO FILL FLOAT SHOE, 5 1/2"	EA	1		
CF 1901	BASKET, 5 1/2"	EA	1		
CF 1607	LATCH DOWN PLUG & BAFFLE, 5 1/2"	EA	1		
CF 1651	TURBOLIZER 5 1/2"	EA	6		
CC 154	SUPER FLUSH	GAL	500		
E 101	HEAVY EQUIPMENT MILEAGE	MI	100		
CE 240	BLENDING SERVICE CHARGE	SK	190		
E 113	BULK DELIVERY CHARGE	TM	443		
CE 205	DEPTH CHARGE; 4001'-5000'	HR	1-4		
CE 504	PLUG CONTAINER CHARGE	JOB	1		
S 003	SERVICE SUPERVISOR	EA	1		
E 100	PICKUP MILEAGE	MI	50		

SUB TOTAL 10,076 85

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Jason Kisley

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

CLOUD LITHO - Abilene, TX