



KANSAS CORPORATION COMMISSION 1071142
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 # 31725
Name: Shelby Resources LLC
Address 1: 2717 Canal Blvd.
Address 2: Suite C
City: HAYS State: KS Zip: 67601 + _____
Contact Person: Chris Gottschaik
Phone: (785) 623-1524
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Charlie Sturdavant
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 #: _____
06/08/2011 06/19/2011 07/13/2011
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 15-145-21642-00-00
Spot Description: _____
NW NE SE NE Sec. 7 Twp. 22 S. R. 16 East West
1550 Feet from North / South Line of Section
635 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Pawnee
Lease Name: Eakin Well #: 4-7
Field Name: Wildcat
Producing Formation: Arbuckle
Elevation: Ground: 2007 Kelly Bushing: 2018
Total Depth: 4025 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 1027 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 cnt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 3500 ppm Fluid volume: 3000 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 Gerrick Date: 01/27/2012



1071142

Operator Name: Shelby Resources LLC Lease Name: Eakin Well #: 4-7
 Sec. 7 Twp. 22 S. R. 16 East West County: Pawnee

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 Wireline 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Attached	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Topeka</td> <td>3144</td> <td>-1128</td> </tr> <tr> <td>Heebner</td> <td>3432</td> <td>-1416</td> </tr> <tr> <td>Lansing</td> <td>3546</td> <td>-1530</td> </tr> <tr> <td>Base KC</td> <td>3796</td> <td>-1780</td> </tr> <tr> <td>Marmaton</td> <td>3808</td> <td>-1792</td> </tr> <tr> <td>Arbuckle</td> <td>3891</td> <td>-1875</td> </tr> <tr> <td>TD</td> <td>4025</td> <td>-2009</td> </tr> </tbody> </table>	Name	Top	Datum	Topeka	3144	-1128	Heebner	3432	-1416	Lansing	3546	-1530	Base KC	3796	-1780	Marmaton	3808	-1792	Arbuckle	3891	-1875	TD	4025	-2009
Name	Top	Datum																							
Topeka	3144	-1128																							
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Marmaton	3808	-1792																							
Arbuckle	3891	-1875																							
TD	4025	-2009																							

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
Surface	12.25	8.625	23	1027	60/40 Poz	415	2%gel, 3% cc
Production	7.875	5.5	15.5	4000	AA2	200	2%gel, 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD <input checked="" type="checkbox"/> Plug Off Zone	3921-3924	AA2	50	2% cc

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
4	3921-24	Squeezed with 50 sx	
4	3867-72	250 gal 15% acid	
3	3892-3900	500 gal 15% acid	

TUBING RECORD: Size: <u>2.375</u> Set At: <u>3993</u> Packer At: _____ Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No											
Date of First, Resumed Production, SWD or ENHR. <u>07/14/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____										
Estimated Production Per 24 Hours	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;">Oil Bbls.</td> <td style="width:15%;">Gas Mcf</td> <td style="width:15%;">Water Bbls.</td> <td style="width:15%;">Gas-Oil Ratio</td> <td style="width:15%;">Gravity</td> </tr> <tr> <td>20</td> <td> </td> <td>8</td> <td> </td> <td> </td> </tr> </table>	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity	20		8		
Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity							
20		8									

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" 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: <u>3867-72</u> <u>3892-3900</u>
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin 4-7
Doc ID	1071142

All Electric Logs Run

Dual Induction
Composated Neutron
Sonic
Micro
Cement Bond

Customer WELBY RESOURCES	Lease No.	Date 6-19-2011
Lease EAKIN	Well # 4-7 TD	
Field Order # 41001	Station PRATT, KS.	Casing 5 1/2" Depth 4000'
Type Job CNW - 5 1/2" L.S.	Formation	County PAWNEE State KS.
		Legal Description 7-22-16

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2"	Tubing Size	Shots/Ft	CHIT-	Acid- 500 SKS	DISCHARGE R	RATE	PRESS	ISIP
Depth 11,000'	Depth	From	To	Pre Pad 1.20 CU FT	Max			5 Min.
Volume 75,874	Volume	From	To	Pad 300 SKS AAD	Min			10 Min.
Max Press 1500	Max Press	From	To	Frac 1.30 CU FT	Avg			15 Min.
Well Connection 1.0	Annulus Vol.	From	To		HHP Used			Annulus Pressure
Plug Depth 5,123	Packer Depth	From	To	Flush 74.8 DBL	Gas Volume			Total Load

Customer Representative **CHRIS BOTSCHNICK** Station Manager **D. SCOTT** Treater **K. LESLEY**

Service Units	1-14-70	1-14-89	1-14-12	1-14-32	1-14-62				
Driver Names	LESLEY	MITCHELL		HUNTER					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30 AM					ON LOCATION - SAFETY MEETING
8:30 AM					RUN 77 W.S. 5 1/2" x 15.5" (35')
					TURBILIZER - 3, 5, 7, 9, 11
					BISSK - 1
11:00					CSG. CAL. BOTTOM
11:00					MIX 500 SKS. 10/40722 @ 14.4 PPG
1:00 PM			18	60	
1:43 PM			48.5	60	MIX 300 SKS. AAD @ 15.3 PPG
1:53 PM					SHUT DOWN - CLEAR PUMP. RELEASE PLUG
1:55 PM	1.0		0	7	START DISPLACEMENT
1:07 PM	400		58	60	LIFT PRESSURE
1:21 PM	1100		80	5	SLOW RATE
1:25 PM	1500		74.5	4	PLUG DOWN - HELD
					CIRCULATION THRU JOBS
1:25 PM			6.4		PLUG R.H. & M.H.
					JOB COMPLETE
					THANKS -
					KEVIN LESLEY

ALLIED CEMENTING CO., LLC. 039744

ATTN: P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:

Russell

DATE <u>6-30-11</u>	SEC <u>7</u>	TWP <u>22</u>	RANGE <u>76</u>	CALLED OUT	ON LOCATION	JOB START <u>11:30 AM</u>	JOB FINISH <u>12:00 PM</u>
LEASE <u>8 3/4" Unit</u>	WELL # <u>4</u>	LOCATION <u>LORRAID 15</u>			COUNTY <u>Logansport</u>	STATE <u>KS</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)							

CONTRACTOR <u>Ultimate</u>	OWNER _____
TYPE OF JOB <u>Repair Patch</u>	CEMENT AMOUNT ORDERED _____
HOLE SIZE _____ T.D. _____	COMMON <u>50</u> @ <u>16.25</u> <u>812.50</u>
CASING SIZE <u>5 1/2</u> DEPTH _____	POZMIX _____
TUBING SIZE <u>2 3/8</u> DEPTH _____	GEL _____
DRILL PIPE _____ DEPTH _____	CHLORIDE _____
TOOL _____ DEPTH _____	ASC _____
PRES. MAX _____ MINIMUM _____	FLY <u>7"</u> @ <u>16.60</u> <u>116.20</u>
MEAS. LINE _____ SHOE JOINT _____	CEMENT LEFT IN CSG. <input checked="" type="checkbox"/>
PERFS. _____	HANDLING <u>50</u> @ <u>2.25</u> <u>112.50</u>
DISPLACEMENT _____	MILEAGE <u>1116/26</u> @ _____ <u>60.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER <u>Bill</u>
<u>417</u> HELPER <u>Woody</u>
BULK TRUCK
<u>488</u> DRIVER <u>Maell</u>
BULK TRUCK
_____ DRIVER _____

TOTAL _____

REMARKS:

pack c 3921-25
packing c 3724
Eng Rate 2.00pm 800 #
Cent w/ 25 sec w/ 210 follow w/
25 min per 25 sec to 3500
wash tank, fan S. M. work out
pull tubing press to sec 11. 0.12

SERVICE

DEPTH OF JOB _____	TOTAL _____
PUMP TRUCK CHARGE _____	<u>1050.00</u>
EXTRA FOOTAGE @ _____	
MILEAGE <u>22</u> @ <u>7.00</u> _____	<u>154.00</u>
MANIFOLD @ _____	
<u>LUN</u> <u>22</u> @ <u>4.00</u> _____	<u>88.00</u>

CHARGE TO: Captiv9

STREET _____

CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

TOTAL _____

To Allied Cementing Co., 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 1101.70

DISCOUNT 20.5 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE _____

ALLIED CEMENTING CO., LLC. 036768

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

SERVICE POINT:
GREAT BEND

DATE <u>6-10-11</u>	SEC. <u>07</u>	TWP. <u>22S</u>	RANGE <u>16W</u>	CALLED OUT	ON LOCATION <u>1A</u>	JOB START <u>6:00 PM</u>	JOB FINISH <u>6:30 AM</u>
LEASE <u>EMKIN</u>	WELL # <u>4-7</u>	LOCATION <u>LARNED - MAIN ST. + 56</u>	COUNTY <u>PAWNEE</u>		STATE <u>KANSAS</u>		
OLD OR <u>NEW</u> (Circle one)		<u>1 1/2 3/4, 3/4, 1/4 INTO</u>					

CONTRACTOR STERLING DRILL # OWNER CAPTIVA II
 TYPE OF JOB SURFACE CASING
 HOLE SIZE 1.244" T.D.
 CASING SIZE 8-9/8" DEPTH 1027'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX 800# MINIMUM 150#
 MEAS. LINE SHOE JOINT 42.50'
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 6 1/2 BBLS WATER
 EQUIPMENT

PUMP TRUCK CEMENTER KEVIN B. wayne
 # 366 HELPER BREAG R.
 BULK TRUCK
 # 344 DRIVER DUSTIN + TRENT
 BULK TRUCK
 # DRIVER

CEMENT	AMOUNT ORDERED		
	<u>475 sk 60:40:2 + 3% CC + 1/4# FLO-SEAL</u>		
COMMON	<u>285</u>	@	<u>16.25</u> <u>4,631.25</u>
POZMIX	<u>190</u>	@	<u>8.50</u> <u>1,615.00</u>
GEL	<u>8</u>	@	<u>21.25</u> <u>170.00</u>
CHLORIDE	<u>15</u>	@	<u>58.20</u> <u>873.00</u>
ASC		@	
FLO-SEAL	<u>118#</u>	@	<u>2.70</u> <u>321.30</u>
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>502</u>	@	<u>2.25</u> <u>1,129.50</u>
MILEAGE	<u>502 x 21 x .11</u>	.11	<u>1,159.42</u>
			TOTAL <u>9,899.67</u>

REMARKS:

Run 8-9/8" casing + Break
Circulation
Flow 3 BBLS FRESH WATER
Mix 475 sk 60:40:2 + 3% CC + 1/4# FLO-SEAL
Displace plug to 985' / 6 1/2 BBLS
Pump plug + hold pressure
Release pressure + float holds!

SERVICE

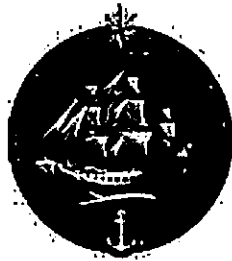
DEPTH OF JOB	<u>1027'</u>		
PUMP TRUCK CHARGE	<u>0 300</u>	@	<u>1125.00</u>
EXTRA FOOTAGE	<u>727'</u>	@	<u>.95</u> <u>690.65</u>
MILEAGE Truck	<u>42</u>	@	<u>7.00</u> <u>294.00</u>
MANIFOLD		@	
Light Truck	<u>42</u>	@	<u>4.00</u> <u>168.00</u>
			TOTAL <u>2,277.65</u>

CHARGE TO: CAPTIVA II
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

1- GUIDE SHOE	@	<u>394.00</u>	<u>394.00</u>
1- APU INSERT	@	<u>382.00</u>	<u>382.00</u>
1- BASKET	@	<u>478.00</u>	<u>478.00</u>
0- CENTRALIZERS	@		
1- TOP RUBBER PUG	@	<u>112.00</u>	<u>112.00</u>

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment
 and furnish cementer and helper(s) to assist owner or



CAPTIVA II, LLC

Eakin #4-7/Casing Report

API# 15-145-21642-0000

NW-NE-SE-NE

1580' FNL & 607' FEL

Sec. 7, T22s-R16w

Pawnee County, Kansas

GL: 2005'

KB: 2016'

6/11/2011

Surface Casing

Spud at 8:45 p.m. on 6/8/11. Drill 12¼" hole to 1032'. Ran **24 joints of new 8 5/8"-23#** casing, tallied 1014' and **set at 1027' KB**. Cemented by Allied Cementing (ticket #036768) with 415sx 60/40 Poz 2% gel, 3% CC. Plug down at 6:30 p.m. Welded straps on the bottom 3 joints, welded collars on the next two and welded straps on the top 5 joints. Cement did circulate. Job complete at 6:30 p.m. on 6/11/11

6/8/11

Production Casing

On location @ 5:00 a.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running **97 joints 5 ½" (15.5#) J-55 49 new joints and 48 used casing** (from inventory). Shoe joint was 20.99'. Insert @ 3965.12'. Marker joint was 8 joints off bottom and measured 21.21'. **Set casing @ 3993.13' KB**. Landed casing 9' off RTD 4002' and LTD, 3994'. Ran a basket and insert on top of #1 and centralizers on #3, #5, #7, #9, and #11. Landed casing @ 11:15 a.m. (6/7/11) Circulate hole for 60 minutes to lower viscosity in mud. RU Basic Services (ticket #4357), plug RH with 30 sx. and MH with 20 sx. [REDACTED]

[REDACTED]. Had good circulation throughout the job. Plug down @ 1:00 p.m. and held 1500#. Release pressure and float held. Release Sterling Rig #2 @ 2:00 p.m.

Scale 1:240 Imperial

Well Name: Eakin #4-7
Surface Location: 1580' FNL, 607' FEL Sec 7-T22S, R16W
Bottom Location:
API: 15-145-21642-00-00
License Number:
Spud Date: 6/8/2011 Time: 8:45 PM
Region: Pawnee County
Drilling Completed: 6/18/2011 Time: 10:38 AM
Surface Coordinates: 542704 & 18222941
Bottom Hole Coordinates:
Ground Elevation: 2005.00ft
K.B. Elevation: 2016.00ft
Logged Interval: 2900.00ft To: 4026.00ft
Total Depth: 4025.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Captiva II, LLC
Address: 445 Union Blvd., Suite 208
Lakewood, CO 80228

Contact Geologist: Janine M. Sturdavant
Contact Phone Nbr: 303-907-2209
Well Name: Eakin #4-7
Location: 1580' FNL, 607' FEL Sec 7-T22S, R16W API: 15-145-21642-00-00
Pool: Wildcat Field:
State: Kansas Country: USA

LOGGED BY



Company: Charlie Sturdavant Consulting
Address: 920 12th Street
Golden, CO 80401

Phone Nbr: 303-907-2295----303-384-9481
Logged By: Geologist Name: Charlie Sturdavant

NOTES

The Captiva II # 4-7 Eakin Unit well was drilled to a LTD of 4026', bottoming in the Arbuckle. A Tooke DAQ gas detector was employed during the drilling of all prospective formations. Gas was noted in the Simpson Sand, but equipment problems precluded reliable gas detection in the Arbuckle. The Arbuckle (and Simpson Shale) were cored from 3876' to 3964', in three separate runs. Oil shows were noted from the top of the Arbuckle to at least 3935'. Aluminum core tubes were used to protect formation fluids, and they were cut into 3' sections. The interval 3935'-3938' had shows of oil in the top, but none in the bottom.

Two stradle tests of the Arbuckle were attempted, but the packers failed to seat, and no fluid was recovered.

One drill stem test was conducted successfully in the Simpson sand, yielding 850' GIP, 360' CGO, and 1275' GMO.

Based on core analysis, log analysis, and a favorable DST, it was determined by all parties involved, that production casing should be run, and that the Arbuckle should be further tested through perforations.

The dry samples were saved and will be available for review at the Kansas Geological Survey well sample library, located in Wichita, Kansas.

Resprctfully submitted,
Charlie Sturdavant

Well Comparison Sheet

Charlie Sturdavant Consulting

WELL COMPARISON SHEET

DRILLING WELL Captiva II #4-7 Eakin Unit 1580' FNL & 607' FEL Sec. 7, T22S R16W					COMPARISON WELL Captiva II #1-7 Eakin Unit 2676' FNL & 423' FEL Sec. 7, T22S R16W				COMPARISON WELL Captiva II #3-7 Eakin Unit 1238' FNL & 1780' FEL Sec. 7, T22S R16W			
2016 KB					2018 KB		Structural Relationship		2017 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	1000	1016	1010	1008	1015	1003	13	3	1006	1011	8	-5
Topeka	3144	-1128	3144	-1128	3140	-1122	-6	-6	3140	-1123	-5	-5
Heebner	3432	-1416	3431	-1415	3428	-1410	-6	-8	3426	-1409	-7	-6
Toronto	3450	-1434	3453	-1437	3442	-1424	-10	-13	3442	-1425	-9	-12
Douglas	3472	-1456	3471	-1455	3464	-1446	-10	-9	3461	-1444	-12	-11
Brown Lime	3537	-1521	3537	-1521	3527	-1509	-12	-12	3526	-1509	-12	-12
Lansing	3546	-1530	3545	-1529	3536	-1518	-12	-11	3534	-1517	-13	-12
Muncie Creek	3673	-1657	3674	-1658	3664	-1646	-11	-12	3659	-1642	-15	-16
Stark Shale	3740	-1724	3743	-1727	3729	-1711	-13	-16	3731	-1714	-10	-13
Base KC	3796	-1780	3798	-1782	3792	-1774	-6	-8	3786	-1769	-11	-13
Marmaton	3808	-1792	3812	-1796	3804	-1786	-6	-10	3800	-1783	-9	-13
Conglomerate	3817	-1801	3832	-1816	3822	-1804	3	-12	3820	-1803	2	-13
Arbuckle	3891	-1878	3891	-1878	3883	-1865	-10	-10	3866	-1849	-26	-26
Total Depth	4025	-2009	4026	-2010	4000	-1982	-27	-28	4000	-1983	-26	-27

Daily Drilling Report

Charlie Sturdavant Consulting

DAILY DRILLING REPORT

Company: Charlie Sturdavant Consulting
920 12th Street
Golden, CO 80401

Well: #4-7 Eakin Unit
Location: 1580' FNL & 607' FEL
Sec. 7 T22S R16W
Pawnee County, KS

Captiva II Office: 303-274-4682
Jim Waechter Cell: 303-478-3388


Wellsite Geologist: Charlie Sturdavant
Cell: (303) 907-2295
Office: (303) 384-9481

Elevation: 2016' KB 2005' GL
Field: Wildcat
API No.: 15-145-21642-0000
Surface Casing: 8 5/8" set @ 1027' KB

Drilling Contractor: Sterling Drilling Rig #2 620-388-5651, Tool Pusher: Shane Downs, cell: 620-388-3474

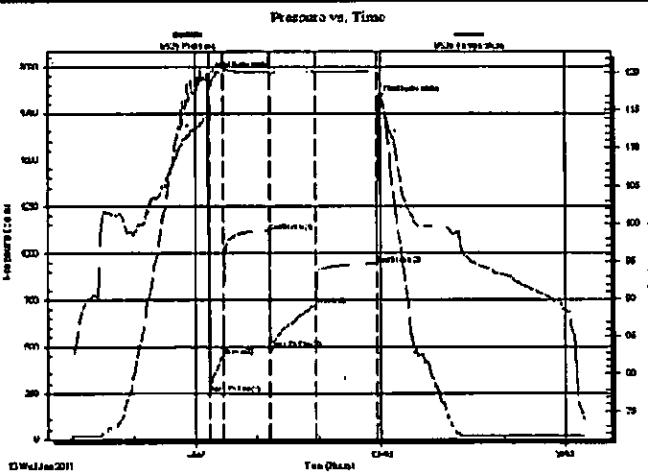
DATE	7:00 AM DEPTH	REMARKS
6/8/2011	0 ft.	Will be moving into location. Spud @ 1645 hrs.
6/9/2011	380 ft.	Drilling ahead w/ RR JZ 12-1/4" bit.
6/10/2011	1002 ft.	Tripping for new bit.
6/11/2011	1032 ft.	WOC. Set 8-5/8" surface casing @ 1027.
6/12/2011	1948 ft.	Drilling ahead.
6/13/2011	2675 ft.	Drilling ahead.
6/14/2011	3345 ft.	Drilling ahead. Geologist on location at 0900 hrs.
6/15/2011	3803 ft.	Drilling ahead in the Lansing. Conducting DST # 1 in the Simpson Sand.
6/16/2011	3876 ft.	Preparing to core.
6/17/2011	3916 ft.	Laying down core # 2, 3890'-3915'. It is bleeding oil at the cut ends.
6/18/2011	3964 ft.	Begin drilling after CTCH. Cored 3915'-3963' last night.
6/19/2011	4026 ft.	Tripping out of hole, laying down pipe. Preparing to run casing. Two attempts to run DST #2 resulted in packer seat failures. Geologist off location @ 1000 hrs.

Drill Stem Test # 1

	DRILL STEM TEST REPORT	
	Captiva II 445 Union Blvd Suite 208 Lakewood, Colorado 80228 ATTN: Charlie Sturdavant	Eakln Unit # 4-7 7-22s-16w Pawnee Job Ticket: 1 DST#: 1 Test Start: 2011.06.15 @ 07:00:00
GENERAL INFORMATION:		
Formation: Simpson Sand Deviated: No Whipstock: ft (KB) Time Tool Opened: 09:12:30 Time Test Ended: 15:20:00	Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No: 3335-48	
Interval: 3790.00 ft (KB) To 3876.00 ft (KB) (TVD) Total Depth: 3876.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 2016.00 ft (KB) 2005.00 ft (CF) KB to GR/CF: 11.00 ft	
Serial #: 8525 Outside Press@RunDepth: 721.66 psia @ 3873.34 ft (KB) Start Date: 2011.06.15 End Date: 2011.06.15	Capacity: 5000.00 psia Last Calib.: 2011.06.16	

Start Time: 07:00:00 End Time: 15:20:00 Time On Btm: 2011.06.15 @ 09:12:00
 Time Off Btm: 2011.06.15 @ 11:57:30

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 9 minutes
 1st Shut-in 45 Minutes--fair blow back
 2nd Opening 45 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 3 minutes
 2nd Shut-in 60 Minutes-Fair blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1954.30	114.17	Initial Hydro-static
1	248.95	113.68	Open To Flow (1)
15	450.65	120.10	Shut-in(1)
60	1119.65	120.23	End Shut-in(1)
81	489.79	119.93	Open To Flow (2)
105	721.66	120.21	Shut-in(2)
165	942.80	120.17	End Shut-in(2)
166	1823.22	119.95	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
850.00	Gas in the pipe	10.24
425.00	muddy gassy oil	5.96
0.00	20%Gas 65% Emulsified Oil 15% Water	0.00
425.00	Muddy gassy oil	5.96
0.00	20%Gas 70%Emulsified oil 10%Water	0.00
425.00	Muddy Gassy oil	5.96

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

Superior Testers Enterprises LLC Ref. No: 1 Printed: 2011.06.16 @ 01:09:25

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 542704
 E/W Co-ord: 18222941

CONTRACTOR

Contractor: Sterling Drilling Company
 Rig #: 2
 Rig Type: mud rotary
 Spud Date: 6/8/2011 Time: 8:45 PM
 TD Date: 6/18/2011 Time: 10:38 AM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 2016.00ft Ground Elevation: 2005.00ft
 K.B. to Ground: 11.00ft

ROCK TYPES

Cht vari	Lmst fw<7	Shgy	shale, red
Chtcong1	Lmst fw>7	shale, gry	Shcol
Dolsec	shale, gm	Carbon Sh	Ss

ACCESSORIES

MINICDAI FOSCH STAT/SEN STRUCTS STRINGED

- MINERAL**
- ⊥ Calcareous
 - △ Chert White
 - ▲ Chert, dark
 - ∠ Dolomitic
 - P Pyrite
 - Sandy

- FUSSIL**
- ∧ Bioclastic or Fragmental
 - ◇ Brachiopod
 - ∇ Bryozoa
 - Crinoids
 - ⊖ Echinoid
 - F Fossils < 20%
 - ◇ Fossiliferous
 - ◇ Oolite
 - Oolites
 - ⊖ Pellets
 - Peloids
 - x Sponge Spicules
 - ∧ Spines

- STRATIFIED STRUCTS**
- ▨ Stylolite

- STRINGER**
- ▨ Shale
 - ▨ green shale
 - ▨ red shale

OTHER SYMBOLS

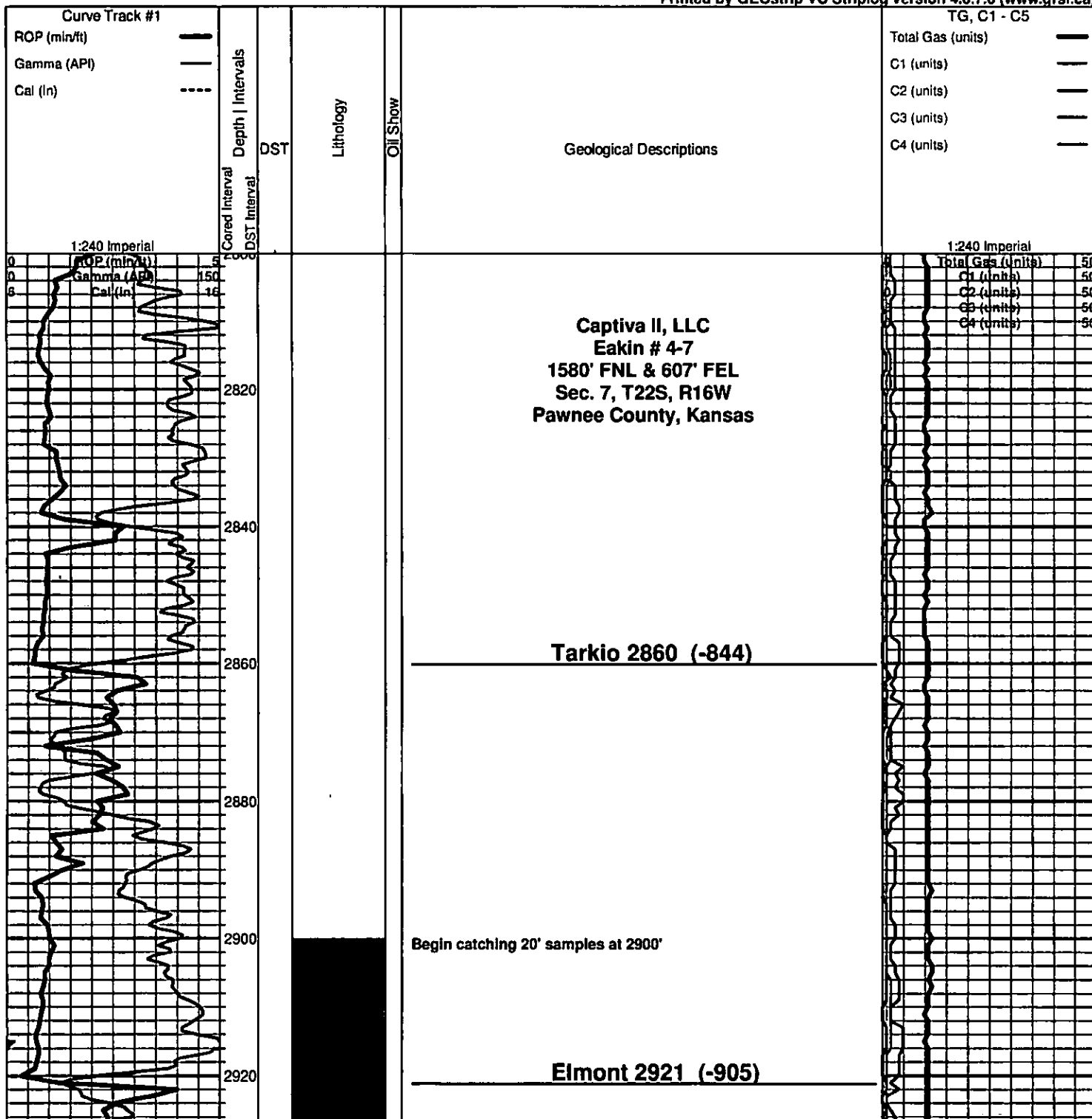
INTERVALS

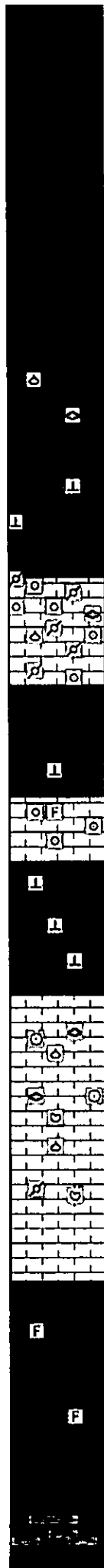
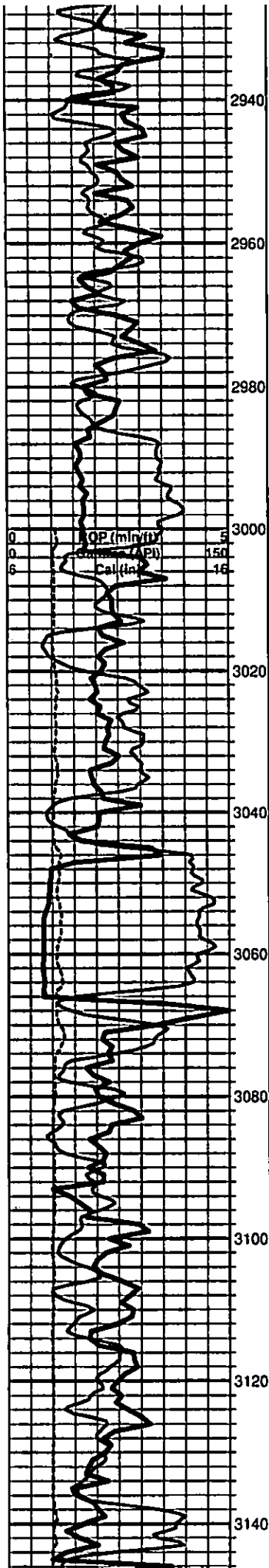
- Core
- DST

DST

- DST Int
- DST alt

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





Limestone: lt gray to lt brown, fossiliferous, fussulinids, brachiopods, micro- to finely-xdn, mudstone to wackestone. No shows.

Shale: gray, soft, calcareous, organic matter or biotite flakes..

Limestone: lt gray to lt brown, pelletal, oolitic, fossiliferous, micro-xdn, well-cemented, no porosity, no shows, wackestone to packstone.

Shale: gray, calcareous, soft.

Limestone: oolite-bearing, fossiliferous packstone, no shows.

Howard 3066 (-1060)

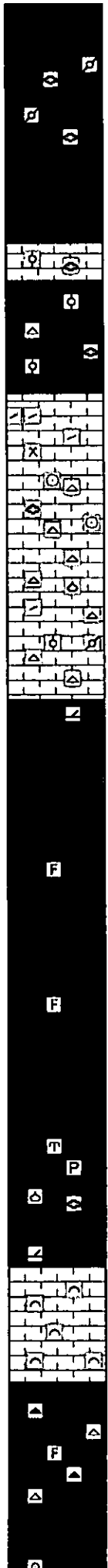
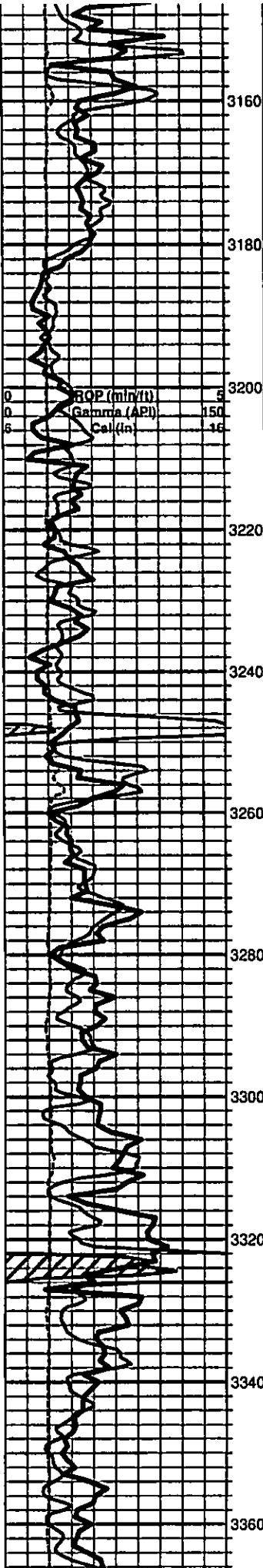
Limestone: tan to brown to lt gray, some frags are mottled, tr fossiliferous, brach, fuss, echinoid spines, tr oolites, tr pellets, packstone to wackestone, micro-xdn, w/ some secondary micro-vugs, mosly tight, no shows.

Begin catching samples on a 10' interval @ 3100'.

Limestone, lt gray to grayish tan, micro-xdn, tr foss, but fewer fossils w/ depth, wackestone.

Topeka 3144 (-1128)

Total Gas (Units)	50
G1 (units)	50
G2 (units)	50
G3 (units)	50
G4 (units)	50



Limestone: cream to tan, some mottled, micro-xln to micrite, some mottled w/ gray pellets, tr fossiliferous, fuss, Wackestone to mudstone.

Limestone: cream, clean, f-xln, granular texture, tr foss., wackestone. Tr pinpoint porosity, no shows.

Limestone as above w/ cream chert, vitreous, fossiliferous. Tr thinly laminated ls and grayish-brown, arg ls., some frags are packstone.

Limestone: cream to lt tan, fossiliferous, crinoids, fuss, echinoid spines, packstone, no shows, f- to micro-xln.

Limestone: cream as above w/ tan to cream mottled ls w/ abund fossil debris, fuss, brach, isolated oolites, tr pellets, packstone, f-xln, no shows. Increasing amount of vy lt gray to cream, fossiliferous chert.

King Hill Shale 3244 (-1228)

Shale, black, carbonaceous, dolomitic.

Limestone: cream, lithographic micrite. Tite, no shows.

Limestone, cream to lt grayish tan, tr fossiliferous, micro-xln wackestone to non-foss crypto-xln micrite, no shows, very tight.

Limestone: cream to lt gray, sll foss, micro-xln to micritic, wackestone to mudstone, tite, no shows. One frag of fussulinid chert.

Limestone lt tan to mottled gray and tan, finely succrosic, sll foss, fuss, bryo, brach, tr pyrite, f- to med-xln, w/ tr interxdn porosity, no shows, wackestone. Tr gray, fossil, chert.

Queen Hill Shale 3320 (-1304)

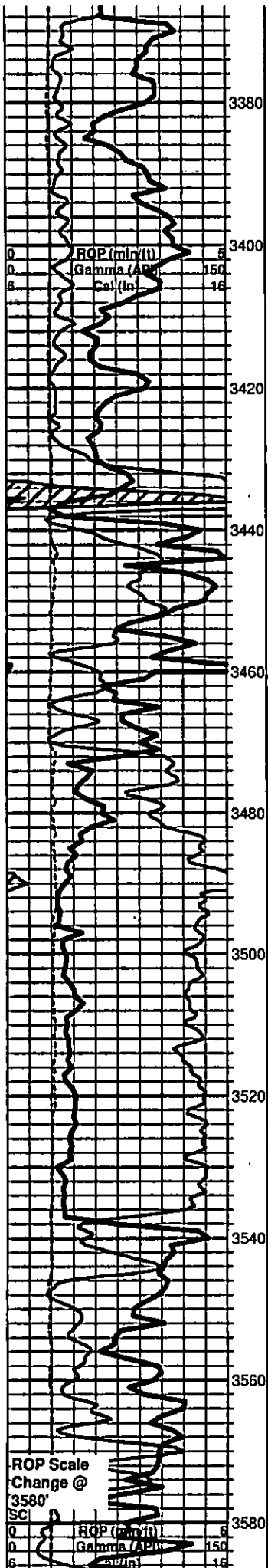
Shale: black, carbonaceous, dolomitic.

Limestone: tan, fossil debris, grainstone, f- to med-xln w/ fair inter-xln por., no shows.

Limestone: lt tan to lt grayish-tan, micro-xln, tr foss., wackestone tite, no shows, Tr lt gray, mottled, vitreous, fossiliferous chert.

Limestone: tan to lt tan. soottv. isolated oolites in a micrite matrix. tr

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	56
C4 (units)	56



stylolites, tite, no shows.

Limestone: cream to tan to lt brown, crypto- to micro-xln, stylolitic micrite/mudstone. Very tite, no shows.

Limestone: cream to lt tan, lithographic, stylolitic micrite. Tite, no shows.

Limestone as above w/ lt gray to grayish-white mottled, fossiliferous, vitreous chert, conchoidal fractures.

Heebner 3432 (-1416)

Black shale: carbonaceous, dolomitic.
Limestone: gray, fossiliferous, tuss, brach, pyrite, tite, no shows.

Shale, gray, lt greenish-gray, brown, waxy, calc., tr foss.

Toronto 3450 (-1434)

Limestone: lt brown, tr foss, vf- to crypto-xln, wackestone to mudstone, pyritic.. Tight, no shows.
Limestone, cream, tr fossiliferous, bryo., clean sli fossiliferous, f-xln, wackestone to crypto-xln, sli lithographic micrite, all is pyritic, no shows, despite having fair inter-xln porosity in the more coarsely-xln rock.

Douglas 3472 (-1456)

Shale: gray, lt gray lt greenish-gray, brown, maroon, lt tan, some fragments are waxy, calcareous to dolomitic, soft. dark organic streaks in the gray shale.

Shale: predominantly gray, calcareous and soft with depth.

Brown Lime 3537 (-1521)

Limestone: brown, sli fossiliferous, crypto-xln matrix w/ sparry patches, wackestone to mudstone.

Lansing 3546 (-1530)

Limestone: cream, fossil debris, tuss., grainstone to packstone, vf-xln groundmass, ranging into micrite. Tite, no shows. Chert: fossiliferous, vy lt gray to cream to white, vitreous, translucent, conchoidal fractures.

Limestone as above w/ darker colors, lt brown, tan lt gray, f- to micro-xln, sparry calcite, seems to be a mix of textural types, mottled cream and gray pelletal packstone, chert as above,

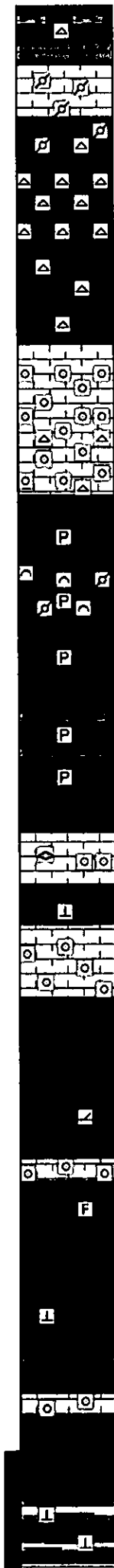
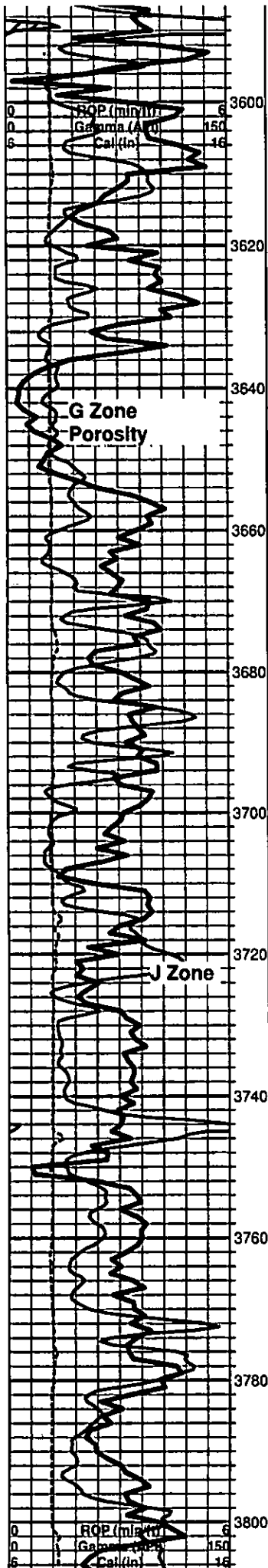
Limestone: cream, oolitic grainstone w/ good inter-oolitic porosity, spotty oil staining, bright yellow fluor, instant streaming cut, good odor. Grades down into micrite.

3403' @ 0925 hrs
6/14/2011
Vis: 72, Wt.: 9.1
PV: 20, YP: 23
WL: 6.8, Cake 1/32
pH: 10.5, Ca:
20ppm
CHL: 2800 ppm
Sol: 5.8, LCM: 2
DMC: \$1723.65
CMC: \$9556.30

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50

Gas test.

Gas test and replace filament.



Shale streaks, argillaceous ls.

White chert.

Limestone: mottled tan and brown, pelletal packstone. Some frags w/ oil staining, prob from above. F- to micro-xln matrix. Becomes wackestone w/ depth.

Limestone, cream, lt gray, lt tan, sli fossiliferous, tr fossil frags, micro-xln matrix, wackestone w/ CHERT! Lt gray to cream to lt tan, amber, translucent, fossiliferous, tr oolitic, spicular, vitreous, abundant.

Limestone: cream to lt gray, tr foss., micro- to crypto-xln mudstone, no porosity, no shows. Chert as above, not as abundant.

Limestone: cream to lt tan, oolitic grainstone w/ excellent oomoldic porosity. No shows.

Still carrying chert as above.

Limestone: lt tan to lt gray, micro-xln, mudstone, tr pyrite, no shows.

Limestone: tan to brown, bioclastic wackestone to packstone. Pelletoids. Tr pyrite.

Tr black, carbonaceous, calc shale.

Limestone: lt gray to cream, micro- to crypto-xln mudstone, tr pyrite. Some thin, gray, foss., arg ls. Some thin gray shale laminations.

Limestone: cream to vy lt gray, fossil debris, fuss., tr oolites, packstone, fair inter-xln por., no shows.

Shale gray to dark gray, carbonaceous, calcareous, soft.

Limestone: vy lt gray to cream, oolitic, well-cemented to fair inter-oolite porosity, fossil debris, grainstone to packstone. No shows.

Limestone: lt gray to cream, becoming micritic w/ depth.

Stark Shale 3740 (-1724)

Shale: black, carbonaceous, dolomitic.

Limestone: vy lt gray to lt tan, crypto-xln micrite.

Limestone: cream to vy lt gray, oolitic grainstone w/ inter oolite porosity. No shows.

Limestone: cream to vy lt gray, fossil debris in a vf-xln matrix, wackestone. Micrite as above.

Shale: gray to dark gray to black, calcareous, fossil frags. Tr pyrite.

Tr green waxy thin shale lams.

Limestone: lt gray to gray mottled, tr foss., dark organic specks. F-xln, wackestone. No shows.

Oolitic grainstone w/ good oomoldic porosity.

Limestone: vy lt gray, micro-xln mudstone, tite, no shows.

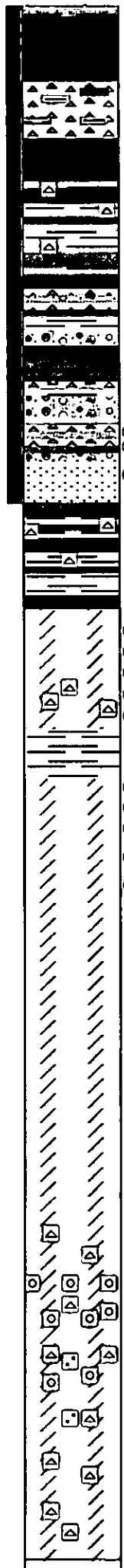
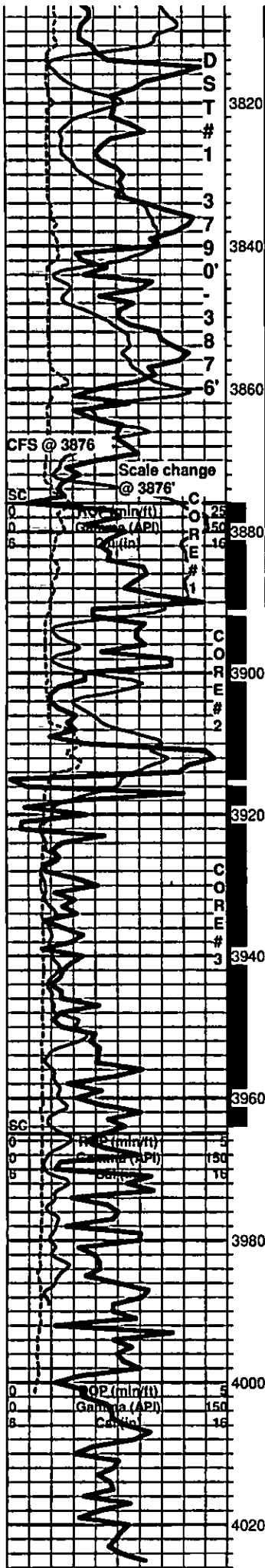
Base Kansas City 3796 (-1780)

Shale: gray, greenish-gray, lt gray, calcareous, soft.

Total Gas (Units)	50
C1 (Units)	50
C2 (Units)	50

Gas detector off line.
Replaced filament.

Total Gas (Units)	50
C1 (Units)	50
C2 (Units)	50



Limestone: tan to lt brown, mottled, f-xln, tr sparry calcite, fair inter-xln porosity, no shows.

Conglomerate: orange to amber, vitreous chert, vy lt greenish-gray shale.

Vari-colored shales: lt greenish-gray, maroon, lt gray, gray, brown. Chert as above.

Vari-colored shales as above with lt green, waxy shale.

Pyrite in some orange ls frags.

Cherty, lmey, shaley conglomerate.

Mixed lithology conglomerate, limestones, vari-colored cherts and shales as noted above.

Sandstone: lt brown (due to oil staining), qtz-rich/qtz arenite, f- to med-gr, sub-rounded grains, well-sorted, saturated w/ oil, good porosity, the overlying conglomerate rock is also saturated with oil. Bright yellow, instant streaming cut. One fragment has grains of pyrite. Orange grains in one ss fragment, chert or orthoclase. Some fragments are laminated w/ thin vy lt greenish-gray shale.

Core #1, 3876'-3891': Red and greenish-gray shale fragments in green and red mud. Core barrel plugged with conglomerate clay.

Arbuckle 3891 (-1875)

3895'-3900 sample has vf-succrosic dolo, cream w/ oil staining in fair inter-xln porosity.

Dolomite: cream to white to tan, f- to vf-xln, succrosic, saturated with oil, bright yellow fluor., good to instant streaming cut, thin laminations of bright green shale. Chert: white to vy lt gray, oolitic to fossiliferous, opaque, vitreous, conchoidal fracturing, spotty oil staining on weathered surfaces.

Core tube ends show green shale with subordinate gray shale from 3908-3915.

See core descriptions below.
Core #2: 3891'-3915'
Core #3: 3915'-3964'

Dolomite: lt tan, succrosic, f- to vf-xln, fair inter-xln porosity in the more coarsely xln parts, mudstone. No shows.

Dolomite as above w/ tr chert: white to tan, translucent, vitreous. No shows. Tr micrite.

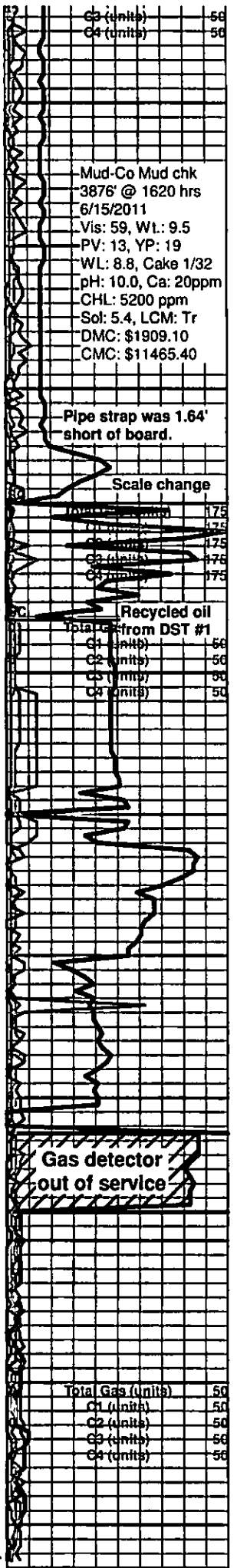
Dolomite as above w/ an increasing amount of chert as above. Some of the chert is oolitic.

Dolomite: Lt tan, med-xln succrosic to micrite, some frags are arenaceous. White, tripolitic chert, tr aqua-green shale. No shows.

Dolomite: cream to lt tan, micro- to med-xln, fair to good porosity, tr oolitic dolo, tr of small vugs, Chert as above w/ opaque white vitreous to tripolitic (weathered), tr aqua-green shale laminations, no shows.

Dolomite: as above, med-xln to micrite, w/ vari-colored chert: tan to brown, red, white, translucent to opaque, vitreous. Tr black waxy shale. Some dolo frags have intact chert. No shows. No oolites.

Dolomite as above w/ evidence of large vugs: coarse drusy coating on micrite. No shows.



Mud-Co Mud chk
 3876' @ 1620 hrs
 6/15/2011
 Vis: 59, Wt.: 9.5
 PV: 13, YP: 19
 WL: 8.8, Cake 1/32
 pH: 10.0, Ca: 20ppm
 CHL: 5200 ppm
 Sol: 5.4, LCM: Tr
 DMC: \$1909.10
 CMC: \$11465.40

Pipe strap was 1.64' short of board.

Scale change

C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50

Recycled oil Total from DST #1

C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50

Gas detector out of service

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50

RTD 4025 (-2009)

**Rotary TD 4025' @ 1025 hrs, 6/18/2011
Superior Well Services Logging TD
Complete logging operations 2000 hrs 6/18/2011**

**Geologist: Charlie Sturdavant off location @ 0900
hrs. 6/19/2011**

Core #2 description: 3890'-3915'

Chips were collected at the end of each 3' core tube. The core was left in the tube to preserve as much of the fluid as possible. The descriptions are of the bottom of the 3' section of core.

3890'-3893': top was muddy Simpson shale. The bottom was dolomite w/ bleeding oil. Dolomite: brown, stained w/ oil, patches of white non-stained, succrosic texture (0.1-0.5mm rhombs), fair inter-xn porosity, tr aqua-green shale specks w/in the dolo. Strong oil aroma, weak, dull yellow fluor, and slow, bright yellow cut.

3893'-3896': Dolomite fragments, bleeding oil, encased in green shale. Dolomite: Micro-xn w/ fractures and small/micro-vugs with bleeding oil and staining, stylolite/compaction features between dolo frags and shale. Algal, endolithic lichen, or bacterial encrustations on dolo frags. Predominantly dolomite.

3896'-3899': Lithoclasts of dolomite, free-floating in aqua-green shale, "collapse breccia". Dolomite: Lt tan succrosic micro-xn to crypto-xn w/ darker brown rims (oil staining or authigenic lichens). Micro-vugs have free oil and staining of the host rock for < 1mm.

3899'-3902': More "collapse breccia" w/ dolomite lithoclasts floating in green shale/mud. Thin layers of black, organic shale. Dolomite: Lt grayish-tan, succrosic micro-xn mixed w/ micrite, streaks of darker laminations that may be fractures. Thin layers of secondary pyrite and specks of pyrite in the dolo. No oil odor, staining or fluor in this sample.

3902'-3905': Dolomite: Lt greenish-gray, micro-xn succrosic, w/ dissolution along micro-fractures. Fractures are stained w/ oil and some have authigenic pyrite. Tr of aqua-green shale.

3905'-3908': Aqua-green to green shale.

3908'-3911': Green shale at top, black, waxy, shiney soft shale at bottom.

3911'-3915': Green Shale.

Core # 3 Description: 3915'-3964', Recovered 47.4'. Descriptions are of the bottom of the 3' sections of aluminum encased core.

3918': Dolomite: vy lt tan, micro-xn, tight, mudstone, tr aqua-green shale, random oil staining in the few porous spots, weak, spotty dull yellow fluor.

3921': Dolomite: vy lt tan to vy lt greenish-tan, vf-xn (0.05-0.2mm rhombs), micro-succrosic, mudstone, spotty, micro-vugular to inter-xn porosity, spotty oil shows in the porosity. Most of the rock is tight.

3924': Dolomite: brown, succrosic, med-xn (0.2-0.5mm rhombs), good inter-xn porosity, thorough oil saturation, dull yellow fluor w/ instant streaming, bright yellow fluor. Mudstone.

3927': Dolomite: vy lt tan, micro-xn mudstone w/ little porosity, oil staining along fractures only.

3930': No sample.

3932': Dolomite: lt tan, f- to med-xn, relict oolite texture, oolites range in size from 0.2mm to 0.7mm, spotty micro-vugs w/ good porosity and oil staining, most of the rock is tight. Oolitic grainstone.

3935': Dolomite, tan, micrite to coarsely-xn, partially recrystallized, rhombs to 1.0mm, faintly laminated (possibly algal), well-developed

0	RQP (min/ft)	5
0	Gamma (API)	150
8	Cal (in)	16

0	Total Gas (units)	50
0	C1 (units)	50
0	C2 (units)	50
0	C3 (units)	50
0	C4 (units)	50

vuggy porosity, no shows.

3938': Dolomite: cream to lt brown, micrite to med-xln succrosic, rhombs to 0.5mm, spotty vuggular porosity, lamination of aqua-green shale, fractures filled w/ more coarsely-xln dolo., fair inter-xln porosity in the coarser zones, no shows.

3941': Dolomite: lt tan, micro-xln, laminated mudstone w/ seemingly random patches of secondary re-crystallization (both vertically, along fractures, and along lamination planes) creating good vugular porosity. Thin laminations of aqua-green shale. No shows.

3944': Dolomite: vy lt gray, micro-xln, 0,05mm gm, uniform texture, mudstone, random, isolated micro-vugs. No shows.

3947': Dolomite: white, micro-xln mudstone w/ very well-developed vugs, drusy dolomite coating inside of vugs. excellent porosity. No shows.

3850': Dolomite: vy lt gray, uniformly micro-xln mudstone, thinly laminated. No shows.

3953': Dolomite: vy lt tan, uniformly micro-xln mudstone, thinly laminated, few micro- vugs that appear to have originated from burrows. No shows.

3856': Dolomite: lt tan, oolitic grainstone, recrystallized, oolites up to 1.5mm in dia., interlaminated with aqua-green shale. soft sediment compaction. No shows.

3959': Dolomite: vy lt tan, uniform, med-xln (0.5mm), quilted texture, good vugular porosity. Mudstone No shows.

3963': Dolomite: tan to lt pinkish-brown, micrite that has been extensively recrystallized, excellent vuggy porosity, vugs lined w/ drusy dolo crystals, relict laminations, pyrite along one lamination. No shows.

4260

4280

4300

4320

4340

4360

4380



CAPTIVA ENERGY, LLC

Eakin #4-7

NW-NE-SE-NE
 1580' FNL & 607' FEL
 Sec.7 T22s & R16w
 Pawnee County, Kansas

API # 15-145-21642-0000

Spud Date: 6/8/2011
 Completed: 7/13/2011

Field: Wildcat

GL: 2005'
 KB: 2016'

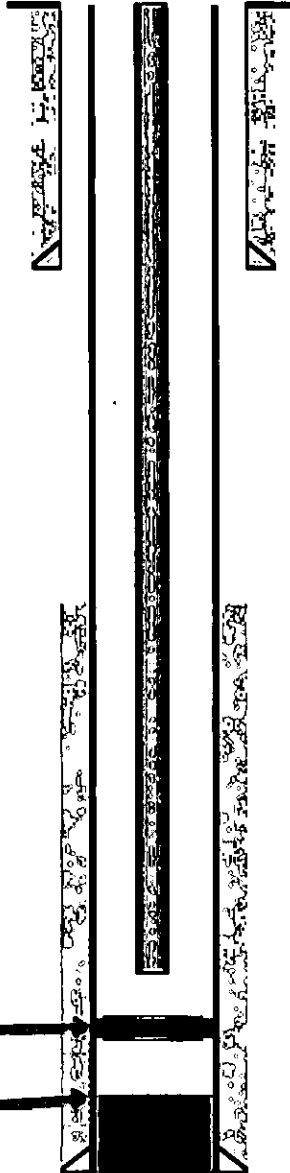
Surface Casing :
 8-5/8" 23# set @ 1027'
 Cemented with 415 sx
 60/40 PozMix

Production Casing:
 5-1/2", 15.5# set @ 3993'
 Cemented with 250 sx
 50 sx 60/40 scavenger
 200 sx AA2

CIBP @ 3890'

TOC: 3918'

PBTD: 3918'
 TD: 4002'



TOC: Surface

Tubing:
 117 jts of 2-3/8" tbg, MA,
 1 joint 2-3/8" tubg and SN set @ 3845'

Rods:
 151 x 3/4" rods
 6'-4" x 3/4" rod subs
 1 1/4 x 18' PR w/7' liner

Pump:
 2' x 1 1/2" x 12' RWT precision pump

TOC:2504'

Conglomerate Perfs:
 3867-72' (20) 7/5/11 250 15% INS/3-3/4 BPM @ 0#

Arbuckle Perfs:
 3892-3900' (24) 8/12/11 500 15% 1NS/2 BPM @ 0#
 3904-07' (12) 9/26/11 750 15% INS / 1.7 BPM @ 1500#
 3921-24'(16) 6/30/11 Sqz 40 sx to 3000#