



KANSAS CORPORATION COMMISSION 1067576
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: 445 Union Boulevard
Address 2: Suite 208
City: LAKEWOOD State: CO Zip: 80228 + _____
Contact Person: Chris Gottschalk
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: Captiva II

Well Name: Eakin #2-7

Original Comp. Date: 01/12/2011 Original Total Depth: 4025

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 #: _____

06/20/2011 06/24/2011 07/19/2011
Spud Date or Date Reached TD Completion Date or Recompletion Date

API No. 15 - 15-145-21626-00-01

Spot Description: _____
SE NE NW SE Sec. 7 Twp. 22 S. R. 16 East West
2054 Feet from North / South Line of Section
1514 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW

County: Pawnee

Lease Name: Eakin Unit Well #: #2-7

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 2010 Kelly Bushing: 2018

Total Depth: 4255 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1035 Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Letter of Confidentiality Received
Date: _____
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: Deanna Garriso Date: 01/30/2012



1067576

Operator Name: Shelby Resources LLC Lease Name: Eakin Unit Well #: #2-7
 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 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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" 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 type="checkbox"/> Sample <table style="width:100%; border: none;"> <tr> <td style="width:60%; border: none;">Name Attached</td> <td style="width:20%; border: none;">Top Attached</td> <td style="width:20%; border: none;">Datum Attached</td> </tr> </table>	Name Attached	Top Attached	Datum Attached
Name Attached	Top Attached	Datum Attached		

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	1035	60/40 Poz	400	2% gel / 3% cc
Production	12.25	5.5	15.5	4047	AA2	350	2% gel / 3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: <u>2.875 Seal-Tite</u> Set At: <u>4008</u> Packer At: <u>4013</u> Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No						
Date of First, Resumed Production, SWD or ENHR. <u>09/08/2011</u>	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input checked="" type="checkbox"/> Other (Explain) <u>gravity</u>					
Estimated Production Per 24 Hours	<table style="width:100%; border: none;"> <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> </table>	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
Oil Bbls.	Gas Mcf	Water Bbls.	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) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin Unit #2-7
Doc ID	1067576

All Electric Logs Run

Dual Induction	
Compensated Neutron Density	
Micro	
Sonic	
Cement Bond Log	

Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Eakin Unit #2-7
Doc ID	1067576

Tops

Name	Top	Datum
Topeka	3079	-1061
Heebner	3444	-1426
Lansing	3566	-1548
Base KC	3796	-1778
Marmaton	3806	-1788
Simpson SS	3864	-1846
Arbuckle	3926	-1908
Total Depth	4025	-2007

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 5082

Date	1-5-11	Sec.	7	Twp.	22	Range	16	County	Pawnee	State	Ks	On Location		Finish	9:30 PM
Lease	Eakin unit		Well No. #2-7		Location: Larned Ks - W on 56 Hwy to mm18,										
Contractor	Sterling Rig #2				Owner: JS										
Type Job	Surface				To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.										
Hole Size	12 1/4"		T.D.		1040'		Charge To: Shelby Resources / Captiva								
Csg.	8 5/8"		Depth		1036'		Street								
Tbg. Size			Depth				City								
Tool			Depth				State								
Cement Left in Csg.	42.00'		Shoe Joint		42.00'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		6 3/4 BLS		Cement Amount Ordered 400 SX 60/40 3% CL 276 Gal.								

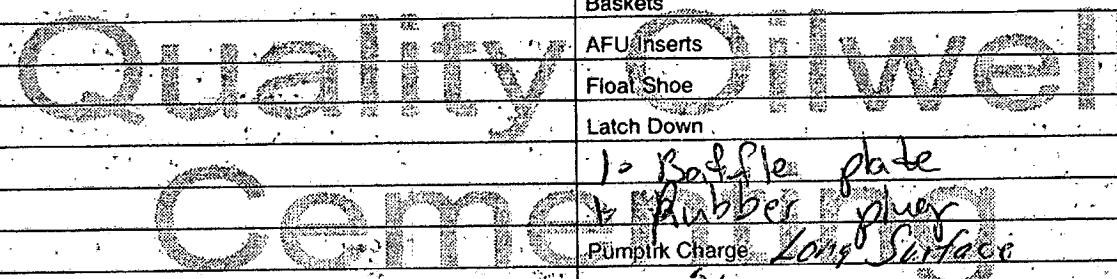
EQUIPMENT

Pumptrk	1	No.	Cementor	Deane	Common	240
			Helper			
Bulktrk	12	No.	Driver	Long	Poz. Mix	160
			Driver			
Bulktrk	per	No.	Driver	Rick	Gel.	8
			Driver			
				JOB SERVICES & REMARKS		
Remarks: Cement did Circulate				Calcium 15		

Hulls	
Rat Hole	Salt
Mouse Hole	Flowseal 100#
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
	Handling 423
	Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1 - Backflap plate
	1 - Rubber plug
	Pumptrk Charge Long Surface
	Mileage 31



X Signature <i>[Signature]</i>	Tax	
	Discount	
	Total Charge	

Customer: <u>Shelby Resources</u>	Lease No.:	Date: <u>6-23-11</u>
Lease: <u>Eakin</u>	Well #: <u>2-7</u>	
Field Order #: <u>11513</u>	Station: <u>Pratt</u>	Casing: <u>5 1/2</u>
	Depth: <u>11047</u>	County: <u>P...</u>
Type Job: <u>CNLG - 5 1/2 L.S.</u>	Formation:	Legal Description: <u>7-22-16</u>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size: <u>5 1/2</u>	Tubing Size:	Shots/Ft: <u>1000</u>	Acid: <u>AGS 11-1</u>	RATE:	PRESS:	ISIP:		
Depth: <u>11047</u>	Depth:	From: <u>0</u>	To: <u>1000</u>	Pre Pad: <u>AA2</u>	Max:	5 Min.		
Volume: <u>96.3</u>	Volume:	From: <u>0</u>	To: <u>1000</u>	Pad: <u>AGS 11-1</u>	Min:	10 Min.		
Max Press: <u>2000</u>	Max Press:	From:	To:	Frac: <u>KH/MH</u>	Avg:	15 Min.		
Well Connection:	Annulus Vol.:	From:	To:	HHP Used:	Annulus Pressure:			
Plug Depth: <u>11046</u>	Packer Depth:	From:	To:	Flush: <u>95.8</u>	Gas Volume:	Total Load:		

Customer Representative: <u>Chris Boltzschell</u>	Station Manager: <u>Dave Scott</u>	Treater: <u>Steve Williams</u>
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Service Units: <u>27283</u> <u>27463</u> <u>19832</u> <u>17862</u>	Driver Names: <u>Walter Wiser</u> <u>Hunter</u>
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Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					On location Safety Meeting
					Run 99 ft. 5 1/2 15.5" CG
					Contentions 3' 5-7-7-14 (3-1)
					Basket Show on Bottom
					Marker IT # 5 at 21.19 Show IT 21.12
					Casing on Bottom
					Set Basket + Show with Ring
					Contentions. Killen with Pig
10:40	250		29	5	Max 1000. AGS 11-1
10:45	250		36	5	Max 1500. AA2 Content
					Start Down - Check Pump there
					Release Plug
10:56	0	0	0	6	Start 11.12 Displacement
1:06	300		50	5	2:51 Pressure
1:13	500		86	4	Slow Rate
1:5A	1500		96	11	plug Down - Hold
					Job Complete
					Thank you
					Plan KH/MH 11/15/11 at Annulus



CAPTIVA ENERGY, LLC

Eakin #2-7 SWD
SE-NE-NW-SE
2075' FSL & 1500' FEL
Sec. 7, T22s-R16w
Pawnee County, Kansas

Spud Date: 1/4/2011
Completed: 7/19/2011

API # 15-145-21626-0000

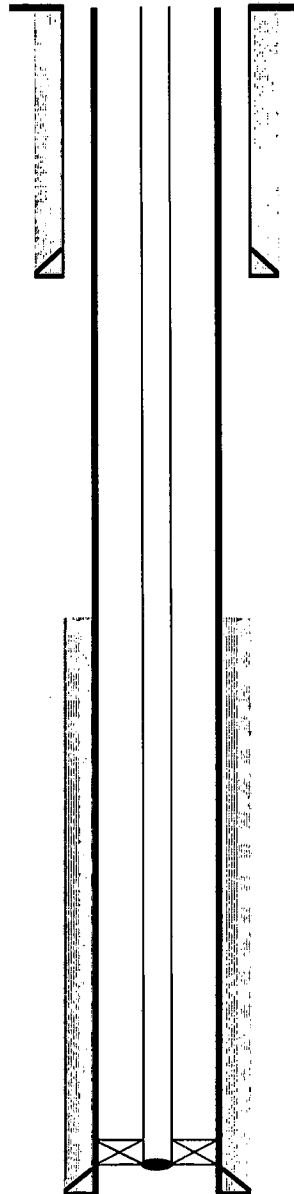
Field:

GL: 2007'
KB: 2018'

Surface Casing :
8-5/8" 23# set @ 1035'
Cemented with 400 sx
60/40 Poz-Mix

Production Casing:
5-1/2", 15.5# set @ 4047'
Cemented with 250 sx
100 sx Servlite/150 sx AA2

Arrow Set -1 Packer set at 4013'



TOC: Surface

Tubing:
125 joints 2-7/8" Seal-Tite

TOC: 3246' CBL

Arbuckle O.H. from 4047'-4255'

{ }
{ ~ ~ ~ }
PBD:
TD: 4255'

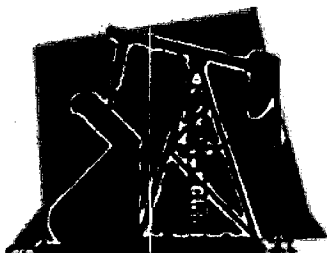
Scale 1:240 Imperial

Well Name: Captiva II #2-7 Eakin Unit
Surface Location: 2051' FSL_1500' FEL, Sec. 7, T22S, R16W
Bottom Location:
API: 15-145-21626-00-00
License Number:
Spud Date: 1/4/2011 Time: 8:42 AM
Region: Pawnee County
Drilling Completed: 1/11/2011 Time: 10:30 AM
Surface Coordinates: x=1822061 & y=541046
Bottom Hole Coordinates:
Ground Elevation: 2007.00ft
K.B. Elevation: 2018.00ft
Logged Interval: 2950.00ft To: 4025.00ft
Total Depth: 4025.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical

OPERATOR

Company: Captiva II
Address: 445 Union Blvd., Suite 208
Lakewood, CO 80228
Contact Geologist: Janine Sturdavant
Contact Phone Nbr: 303-907-2209
Well Name: Captiva II #2-7 Eakin Unit
Location: 2051' FSL_1500' FEL, Sec. 7, T22S, R16W
API: 15-145-21626-00-00
Pool: Wildcat
State: Kansas Country: USA

LOGGED BY



Charlie Sturdavant Consulting

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

Phone Nbr: 303-907-2295
Logged By: Geologist

Name: Charlie Sturdavant

Remarks and Recommendations

After reaching TD and evaluating the open hole logs, the DST, sample shows, and the thin Simpson Sand, it was recommended to plug and abandon the Eakin Unit # 2-7.

The samples will be delivered to the KGS Sample Library in Wichita, KS, for future review.

Respectfully submitted,

Charlie Sturdavant

Well Comparison Sheet

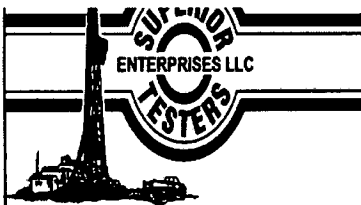
DRILLING WELL					COMPARISON WELL			
Captiva II #2-7 Eakin Unit					Gulf Oil #1 Haege			
2051' FSL & 1500' FEL					NE-NE-NE			
Sec. 7, T22S R16W					Sec.13, T22S R17W			
					Structural			
	2018	KB			2022	KB	Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Anhydrite	1018	1000	1020	998	1070	952	48	46
Topeka	3079	-1061	3078	-1060	3126	-1104	43	44
Heebner	3444	-1426	3444	-1426	3488	-1466	40	40
Toronto	3466	-1448	3450	-1432	3508	-1486	38	54
Douglas	3480	-1462	3478	-1460	3523	-1501	39	41
Brown Lime	3556	-1538	3544	-1526	3591	-1569	31	43
Lansing	3566	-1548	3552	-1534	3598	-1576	28	42
Muncie Creek	3690	-1672	3676	-1658	3728	-1706	34	48
Stark Shale	3760	-1742			3800	-1778	36	
Base KC	3796	-1778	3776	-1758	3857	-1835	57	77
Marmaton	3806	-1788	3816	-1798	3869	-1847	59	49
Simpson SS	3864	-1846	3864	-1846	3998	-1976	130	130
Arbuckle	3926	-1908	3916	-1898	4100	-2078	170	180
Total Depth	4025	-2007	4025	-2007	4155	-2133	126	126

Daily Drilling Report

DATE	7:00 AM DEPTH	REMARKS
1/4/2011	0 ft.	Moving to location.
1/5/2011	631 ft.	Drilling ahead with a 12 1/4" long tooth bit.
1/6/2011	1040 ft.	WOC. Set surface csg. To 1035' KB.
1/7/2011	1334 ft.	Drilling ahead.
1/8/2011	2563 ft.	Drilling ahead. Geologist on location at 2200 hrs. Topeka top @ 3079'
1/9/2011	3284 ft.	Tripping for a new bit @ 3488 ft. Geologist is running samples.
1/10/2011	3604 ft.	Drilling ahead. Lansing encountered at 3566 ft.
1/11/2011	3925 ft.	Circulating for samples in the Arbuckle. Will drill to a TD of 4025'. Had shows of oil.
1/12/2011	4025 ft.	Reached TD of 4025 yesterday. Ran logs. Currently straddle testing the shows in the Arbuckle 3854'-3925'.

DST # 1





Shelby Resources L.L.C.
 2717 Canal Blvd. Suite C
 Hays, Kansas 67601
 ATTN: Charlie Sturdavant

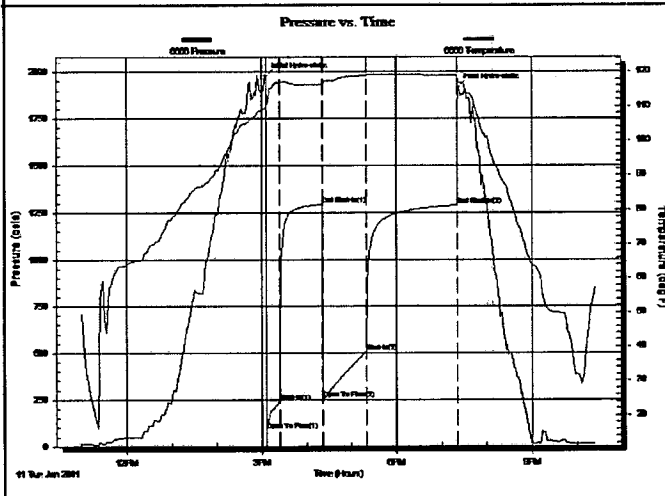
Eakin Unit #2-1
1-22s-16w Pawnee
 Job Ticket: 15759 **DST#: 1**
 Test Start: 2011.01.12 @ 11:00:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 00:00:00
 Time Test Ended: 00:00:00
 Interval: **3854.00 ft (KB) To 3925.00 ft (KB) (TVD)**
 Total Depth: **4025.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Straddle (Initial)**
 Tester: **Gene Budig**
 Unit No: **3335-53**
 Reference Elevations: **2021.00 ft (KB)**
 2011.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 6666 **Inside**
 Press@RunDepth: **1289.21 psia @ 3922.43 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.11** End Date: **2011.01.11** Last Calib.: **2011.01.12**
 Start Time: **11:01:00** End Time: **22:26:00** Time On Btm: **2011.01.11 @ 15:05:30**
 Time Off Btm: **2011.01.11 @ 19:22:30**

TEST COMMENT: 1st Opening 15 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 6 minutes
 1st Shut-In 60 Minutes-No blow back
 2nd Opening 60 Minutes-Fair blow built to the bottom of a 5 gallon bucket in 12 minutes
 2nd Shut-In 120 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1976.54	109.53	Initial Hydro-static
1	86.77	109.15	Open To Flow (1)
19	241.00	116.88	Shut-In(1)
76	1294.22	116.42	End Shut-In(1)
77	254.45	116.03	Open To Flow (2)
135	505.51	119.00	Shut-In(2)
256	1289.21	118.87	End Shut-In(2)
257	1916.50	117.42	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
90.00	Watery Mud 70% mud 30% water	0.44
180.00	Muddy Water 40% Mud 60% Water	1.43
180.00	Muddy Water 10% Mud 90% Water	2.52
180.00	Muddy Water 5% Mud 95% Water	2.52
300.00	Water 1% Mud 99% Water	4.21
0.00	Chlorides 24000	0.00

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

Superior Testers Enterprises LLC Ref. No: 15759 Printed: 2011.01.12 @ 11:24:45

SURFACE CO-ORDINATES

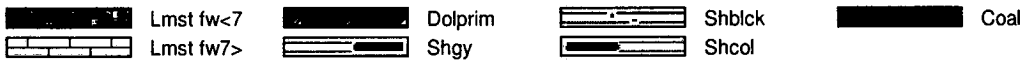
Well Type: **Vertical**
 Longitude: **-99.118786982** Latitude: **38.150956978**
 N/S Co-ord: **x=1822061**
 E/W Co-ord: **y=541046**

CONTRACTOR

CONTRACTOR

Contractor: Sterling Drilling
 Rig #: 2
 Rig Type:
 Spud Date: 1/4/2011 Time: 8:42 AM
 TD Date: 1/11/2011 Time: 10:30 AM
 Rig Release: 1/13/2011 Time: 12:00 AM

ROCK TYPES



ACCESSORIES

MINERAL

- ⊥ Calcareous
- ▲ Chert, dark
- △ Dolomitic
- P Pyrite
- △ Chert White

FOSSIL

- ∩ Bioclastic or Fragmental
- ∅ Brachiopod
- ∩ Bryozoa
- Crinoids
- F Fossils < 20%
- G Gastropod
- ∅ Oolite
- ∩ Pellets
- Oolites
- Δ Spicules

STRAT./SED. STRUCTS

- Stylolite

STRINGER

- Siltstone

TEXTURE

- C Chalky
- L Lithogr

OTHER SYMBOLS

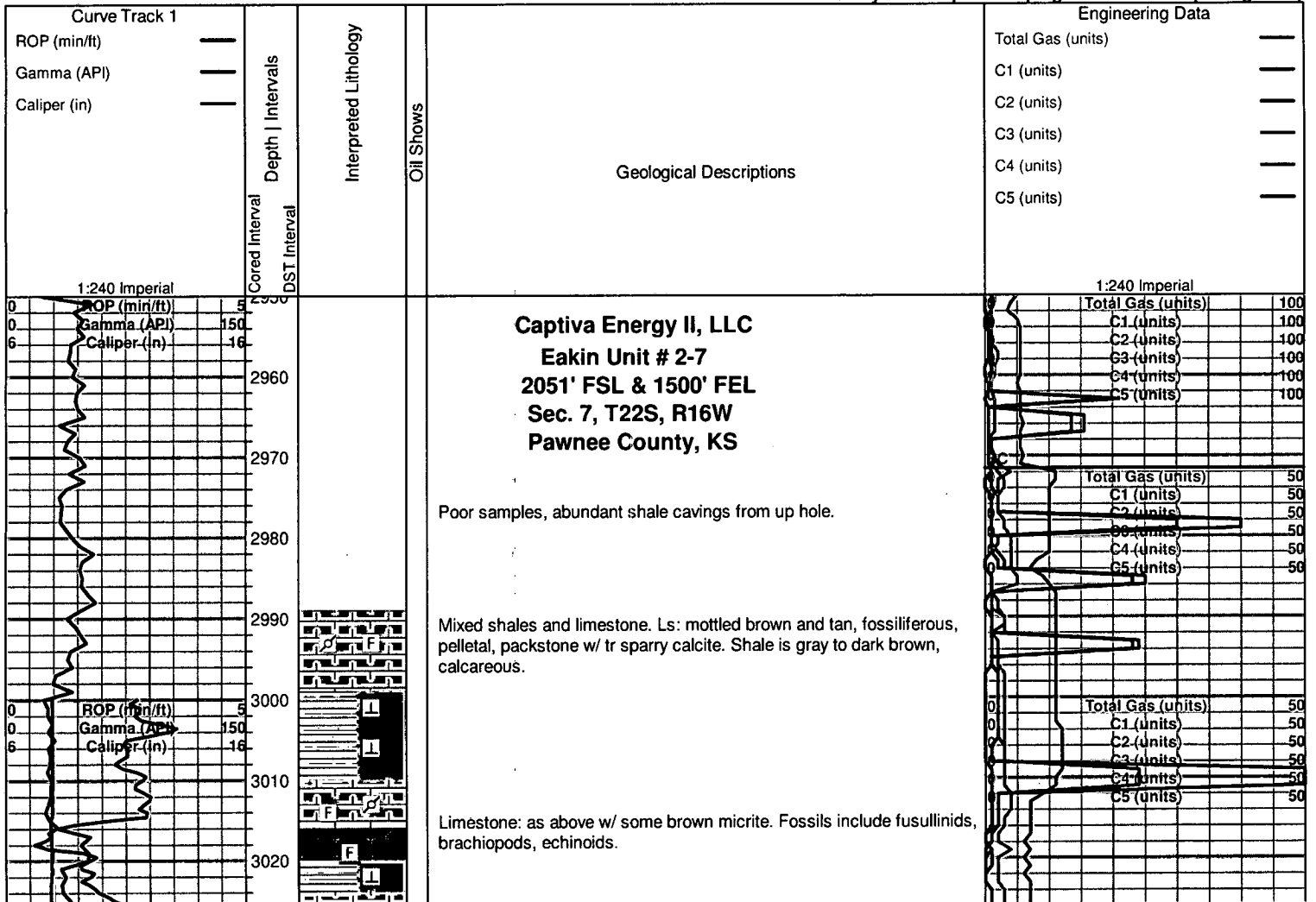
OIL SHOWS

- Even Strn
- Spotted Strn 50 - 75 %
- Spotted Strn 25 - 50 %
- Spotted Strn 1 - 25 %
- Questionable Strn
- D Dead Oil Strn
- Fluorescence

INTERVALS

- Core
- DST

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



Captiva Energy II, LLC
Eakin Unit # 2-7
2051' FSL & 1500' FEL
Sec. 7, T22S, R16W
Pawnee County, KS

Poor samples, abundant shale cavings from up hole.

Mixed shales and limestone. Ls: mottled brown and tan, fossiliferous, pelletal, packstone w/ tr sparry calcite. Shale is gray to dark brown, calcareous.

Limestone: as above w/ some brown micrite. Fossils include fusulinids, brachiopods, echinoids.

Shale: gray to lt gray w/ dark specks of organic matter. Also brownish, calcareous, fossiliferous shale.

Limestone as above w/ brown, vitreous chert.

Shale, gray to lt gray, organic spots, calcareous, soft. Tr. pyrite.

Topeka 3079 (-1061)

Limestone, tan to cream, micrite to lithographic, to sli fossiliferous wackestone. Fussulinids, pellets

Limestone: tan, more fossiliferous than above, Packstone.

Limestone: tan to lt brown, fossiliferous packstone to oolitic grainstone. Dense, no porosity.

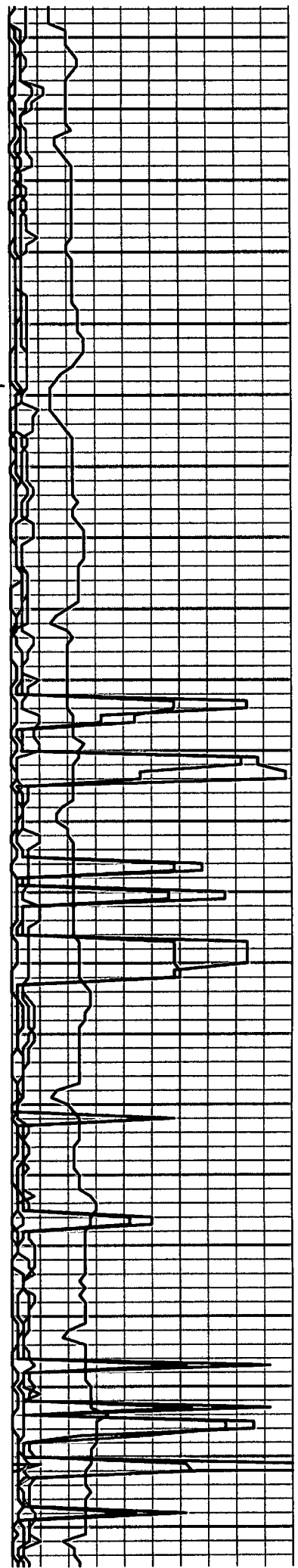
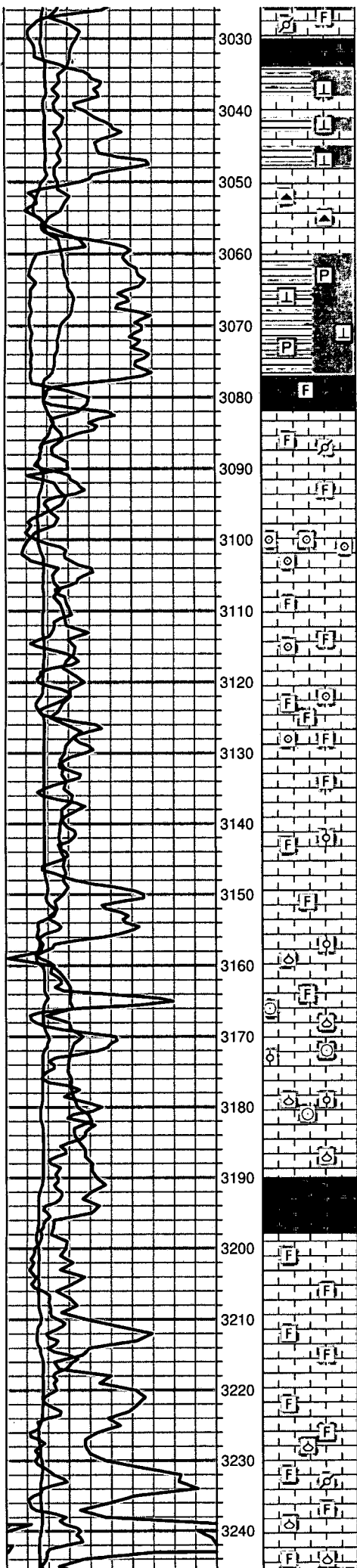
Limestone: tan to lt tan, fossiliferous, pelletal, oolitic, sparry, fair inter-xn porosity, packstone.

Limestone: tan to lt brown, fossiliferous, fussionids, brachiopods, crinoids, packstone, w/ tr micrite, lithographic, sparry spots w/ fair porosity.

Limestone: tan to lt brown, more micrite than fossils, wackestone to mudstone, tight, dense no porosity.

Limestone, w/ porosity, packstone, tan, fossiliferous.

Limestone: cream to tan, more fossiliferous, fussionids, brachiopods, pellets, packstone.



King Hill Shale 3255 (-1237)

Shale, black, organic, dolomitic.

Limestone as above w/ some micrite and interlayered with argillaceous ls and calcareous brownish-gray shale.

Limestone: tan, fossiliferous packstone to cream micrite, to lt brown, fossiliferous, succrosic wackestone. Also black chert w/ white fussulinids.Brachiopods.

Begin 10' samples @ 3300'.

Limestone: cream, weakly to moderately fossiliferous, succrosic wackestone to packstone w/ fair micro-porosity.

Fussulinids, brachiopods, packstone as above. Some thin streaks of organic matter (stylolites?).
Tr of black shale.

Queen Hill Shale 3332 (-1314)

Black shale: dolomitic, carbonaceous

Limestone: cream to lt tan, chalky, broken fossil fragments, some grannular/succrosic, some with thin organic laminations, packstone.

Limestone: cream to lt tan, succrosic to fossiliferous w/ broken fossil frags., some chalky. White to lt gray, mottled, pitted chert.

Limestone as above with lt brown, fossiliferous, mud-supported wackestone. More chert as above. Micro-xln.

Some ls is chalky.

Limestone: cream to tan, micritic to micro-xln, stylolitic, partly chalky, silty fossiliferous.

Limestone: cream to tan, crypto- to macro-xln, micritic, tr fossiliferous, spicules, stylolites.

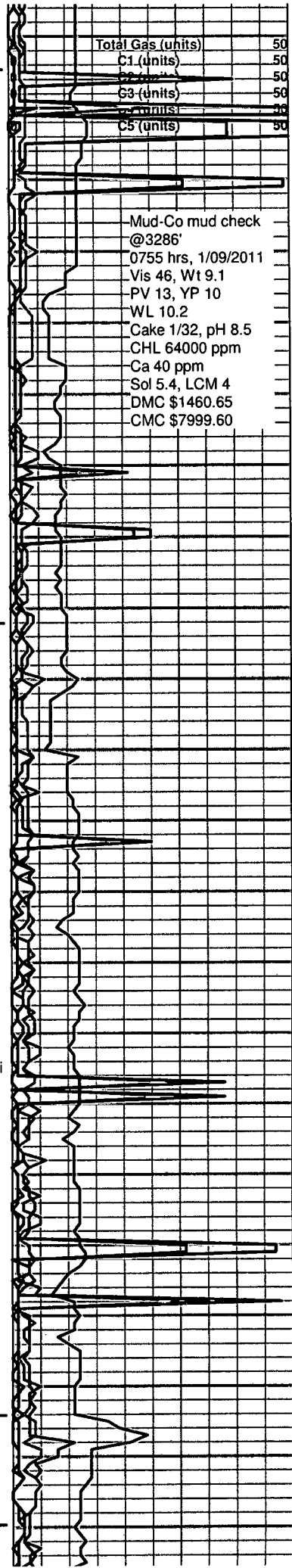
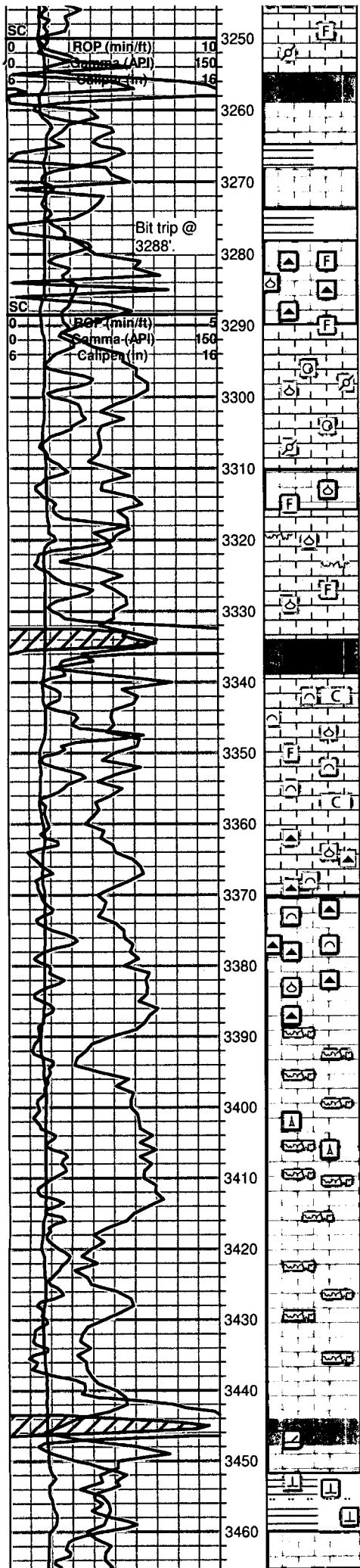
Limestone as above.

Heebner Shale 3444 (-1426)

Shale: black, carbonaceous, dolomitic.

Shale: gray, calcareous, tr. fossil fragments, with silty streaks.

Toronto 3460 (-1442)



Limestone: lt brown to tan, micro- to crypto-xln, micrite, tr well-cemented oolites, tr sparry calcite, lithographic. No shows.

Douglas 3480 (-1462)

Shale: gray to brown, calcareous, brittle.

Still an abundance of limestone, (probably cavings, including Heebner shale).

Shale as above with some lt greenish-gray, and streaks of brown siltstone.

Shale as above. Noted one small (4mm) brachiopod. Still flooded with limestone.

Sample is dominated by limestone cavings, and we still have black shale from the Heebner.

As above, tr reddish-brown shale and siltstone.

Mixed, varicolored shales, siltstone and vl-gr sandstone.

Brown Lime 3544 (-1526)

Lansing 3552 (-1534)

Limestone: lt brown micrite, no porosity.

Limestone: cream to lt tan, lithographic micrite to sli fossiliferous wackestone. Tr intercrystalline porosity in the sparry portions of the lithographic ls. Tr. sli fossiliferous wackestone.

NOTE: The samples are carrying an abundance of shales, caving from the overlying Douglas interval.

Limestone: white to cream, micro-xln, tr fossiliferous, wackestone, weak porosity. No shows.

Limestone as above.

Limestone: brown, argilllic, pelletal, tr fossiliferous, wackestone. Tr spiculated chert, vitreous, lt gray.

Limestone: Brown, sli fossiliferous, tight, mudstone. No shows. Trace amounts of lt gray, fossiliferous packstone.

NOTE: the sample catcher discarded the proper samples and saved those that he should have discarded, ie poor samples from 3640'-3700'

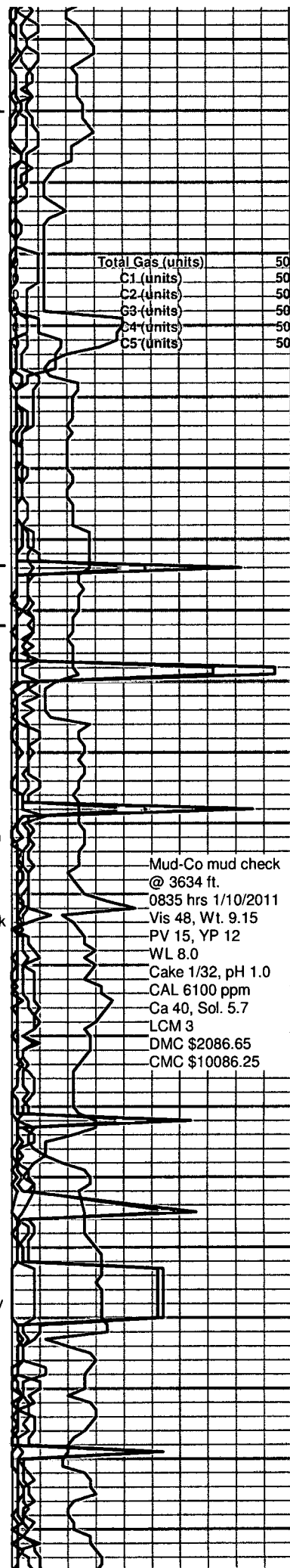
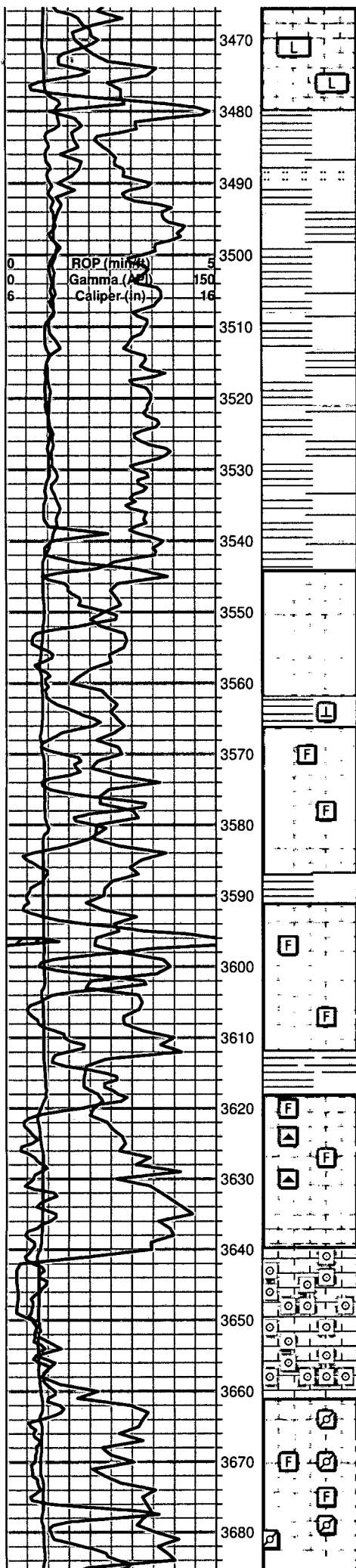
This type of drilling break is usually associated with porosity, generally oolitic in the L/KC, but the samples only show mud-supported fossils and pellets...no oolites.

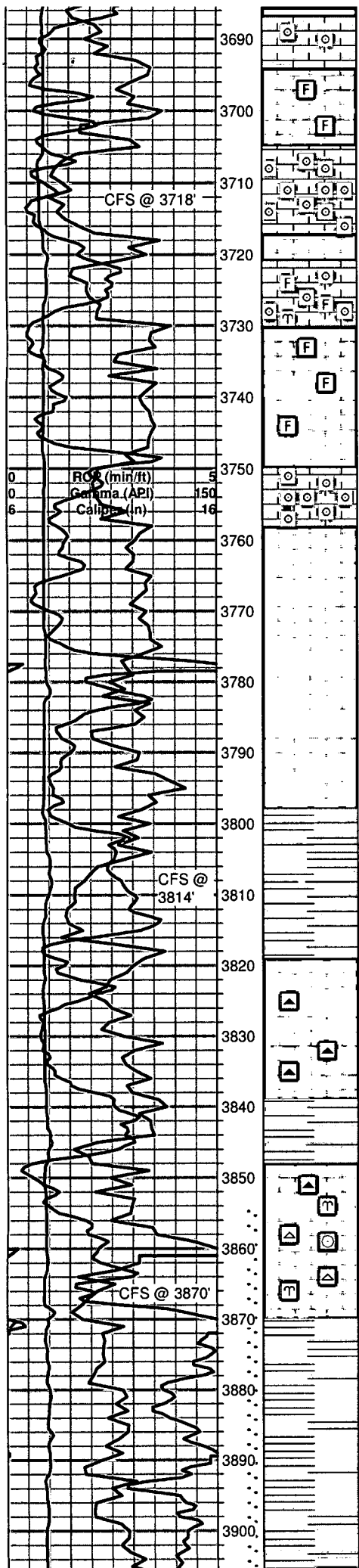
The sample from 3670' has an oolitic grainstone with excellent oomoldic porosity, but lacks shows of oil.

Limestone: cream, micro-xln, sli fossiliferous, weak porosity, wackestone. Also brown ls, argillaceous, fossiliferous, pelletal, packstone.

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50
C5 (units)	50

Mud-Co mud check
 @ 3634 ft.
 0835 hrs 1/10/2011
 Vis 48, Wt. 9.15
 PV 15, YP 12
 WL 8.0
 Cake 1/32, pH 1.0
 CAL 6100 ppm
 Ca 40, Sol. 5.7
 LCM 3
 DMC \$2086.65
 CMC \$10086.25





Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows.

Limestone: cream to lt tan, micro-xln w/ limited porosity, tr fossiliferous, wackestone, tr sparry calcite.

Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows. Tr rhombopora.

Limestone: cream to lt tan, fossiliferous, micro-xln, weak porosity, packstone to wackestone. Tr oolitic grainstone, spicules, fossil debris, micro-xln w/ fair inter-xln porosity.

Limestone: lt tan, fossiliferous to micritic-lithographic, wackestone, weak inter-xln porosity.

Limestone: cream, oolitic grainstone w/ oomoldic porosity, no shows.

Limestone: white to cream, lithographic micrite, with inter-xln por in the sparry portions. No shows. Tr black shale.

Base KC 3776 (-1761)

Limestone: lt brown, fossiliferous, pelletal, micro-xln wackestone to dense crypto-xln micrite.

Shale: vari-colored, reddish, brown, and gray. Mixed with limestone, tan, tr fossiliferous, micro-xln, wackestone.

Shale as above with black also.

Vari-colored shale, red, brown, gray.

Shale: multi-colored as above, with lt greenish-aqua.

Limestone: tan, micro-xln, tr fossiliferous, mostly micritic w/ sparry calcite, lt orange, vitreous chert. I also see individual, vf-gr, sub-rounded qtz sand grains in the bottom of the tray.

Limestone: as above w/ red to orange, vitreous to tripolitic chert. Fenestrate bryozoans and crinoids in ls.

Mixed vari-colored shales and chert, with limestone: micro-xln to micritic, brown to tan. No shows. Tr pyrite, pyritized brachiopods 5mm in dia.

First sample after circulation shows everything that washed out from up the hole, mixed limestones, chert, and shales, including the greenish-aqua, waxy shale. Crinoids, bryozoans, pyritized gastropods, fussulinids.

As above: mixture of ls, shale and chert.

As above w/ a few fragments of f-gr, brown, qtzose ss.

As above: more ss fragments, layered w/ greenish-aqua shale. Much of the ls is micritic to micro-xln. cream to lt tan. Oolitic ls is present

Total Gas (units)	50
C1 (units)	50
C2 (units)	50
C3 (units)	50
C4 (units)	50
C5 (units)	50

(cavings from L/KC?). Greenish-aqua shale has rather sharp, fresh, angular breaks and is more abundant here.

Arbuckle 3916 (-1898)

Dolomite: white to cream, good inter-xln porosity, spotty, streaky oil show, strong aroma, weak cut, looks rather heavy. When dissolved in acid, the dolo yields fine, black particulates of heavy to dead oil. Chert: white, included in the dolomite, also has a spotty oil show.

Dolomite: as above with succrosic texture and fair inter-xln porosity. The oil can be made to cut more easily with acid.

Dolomite rhombs as large as 0.3mm, with good inter-xln porosity, and oil staining, causing a brown color.

Dolomite as above, with odor, staining and cut. Also the same succrosic dolo is present without oil staining. Could the stained fragments be caving from above?

Dolomite: both succrosic w/ spotty staining, and w/o staining. Also micritic dolo, hard tight, no por., tan in color. Sample cup has odor.

Dolomite: cream to tan, micritic and tight to succrosic and porous. Some of the succrosic dolo has spotty oil staining. Cup has strong odor.

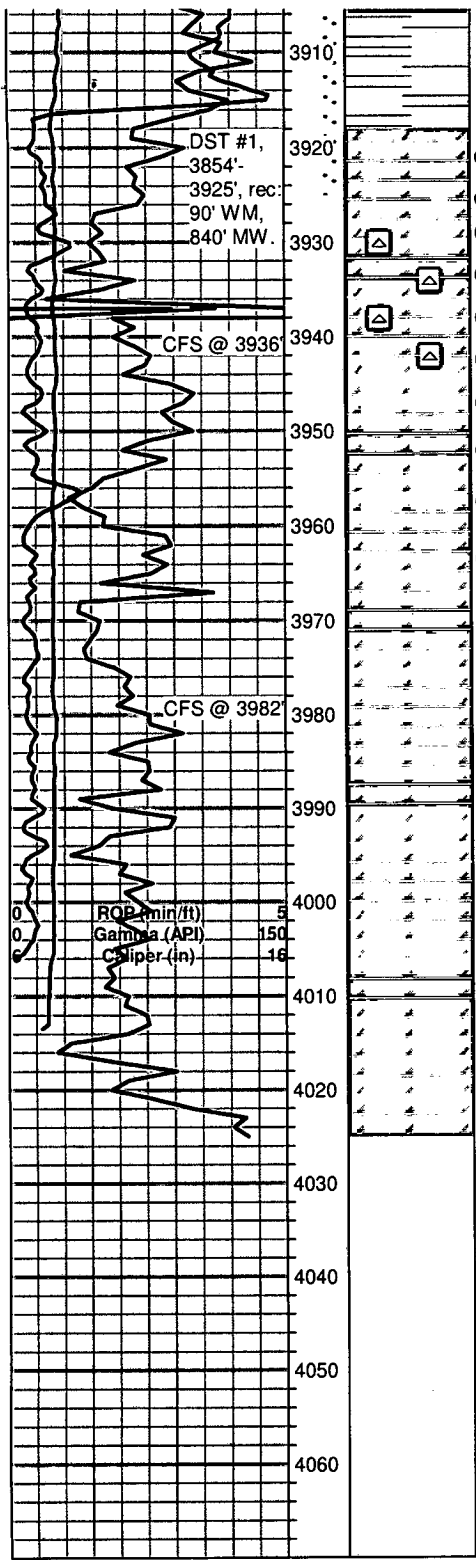
Dolomite: cream, micro- to crypto-xln, micritic, tight. Still some succrosic dolo w/ inter-xln porosity and spotty dark oil staining. Cup has strong oil aroma.

Rotary TD 4025' (-2007)

Rotary TD @ 4025', 1030 hrs, 1/11/2011
Superior Well Services Logging TD 4026'
Complete logging operations 2020 hrs 1/11/2011
Geologist Charlie Sturdavant off location
@ 1200 hrs, 1/12/2011

Gas check

Mud-Co mud check @ 4009 ft.	
0915 hrs, 1/11/2011	
Vis 62, Wt. 9.4	
PV 21, YP 22	
WL 8.0	
Cake 1/32, pH 9.5	
CHL 6000 ppm	50
Ca 40 ppm	50
Sol 7.5, LCM 2	50
DMC \$2122.15	50
CMC \$12208.40	50
CS (units)	50





CAPTIVA II, LLC

Eakin Unit # 2-7 OWWO/Casing Report

API# 15-145-21626-0000

SE-NE-NW-SE

2075' FSL & 1500' FEL

Sec. 7, T22s-R16w

Pawnee County, Kansas

GL: 2007'

KB: 2018'

1/05/2011 Surface Casing

Spud at 9:00 p.m. on 1/04/11. Drill 12¼" hole to 1040'. Ran 23 joints of new 8. 5/8"-23# casing, tallied 1021.98' and set at 1035' KB. Cemented by Quality Cementing with 400 sx 60/40 Poz 2% gel, 3% CC. cement did circulate. Plug down at 9:30 p.m. a.m. welded straps on the bottom 3 joints and welded straps on the top 5 joints.

6/24/2011 Production Casing

On location @ 5:00 p.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running 99 joints 5 ½" (15.5#) J-55 new casing. Shoe joint was 21.12'. Insert @ 4025.94'. Marker joint was 5 joints off bottom and measured 21.49'. Set casing @ 4047.06' KB. Landed casing 207.94' off RTD 4255'. Ran a Tri-Plex Shoe on bottom, a basket and insert on top of #1 and centralizers on #3, #5, #7, #9, #11, #13 and #15. Landed casing @ 11:30 p.m. (6/23/11) Circulate hole for 60 minutes to lower viscosity in mud. RU Basic Services, plug RH with 30 sx. and MH with 20 sx. Mix and pump 100 sx A-Servlite followed by 150 sx AA-2 cement down casing. Had good circulation throughout the job. Plug down @ 1:00 a.m. and held 1500#. Release pressure and float held. Release Sterling Rig #4 @ 4:00 p.m.