



KANSAS CORPORATION COMMISSION 1072972
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 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: _____
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 #: _____

10/08/2011	10/15/2011	10/16/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-145-21653-00-00

Spot Description: _____
NE SW SE SE Sec. 1 Twp. 22 S. R. 17 East West
555 Feet from North / South Line of Section
705 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: Pawnee

Lease Name: Woods Trust Well #: 1-1

Field Name: _____

Producing Formation: Arbuckle

Elevation: Ground: 2016 Kelly Bushing: 2027

Total Depth: 4030 Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: 1022 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 cm.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 43000 ppm Fluid volume: 1000 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Shelby Resources L.L.C.

Lease Name: Eakin #2-7 License #: 31725

Quarter NE Sec. 7 Twp. 22 S. R. 16 East West

County: Pawnee Permit #: D-30,939

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 Garcia Date: 01/31/2012



1072972

Operator Name: Shelby Resources LLC Lease Name: Woods Trust Well #: 1-1
Sec. 1 Twp. 22 S. R. 17 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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Topeka	3140	-1116
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Heebner	3434	-1410
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Lansing	3543	-1519
List All E. Logs Run:		Base KC	3796	-1772
Attached		Conglomerate	3869	-1845
		Arbuckle	3935	-1911

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	1022	60/40 Poz	400	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				
___ 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:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____		
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

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 type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Shelby Resources LLC
Well Name	Woods Trust 1-1
Doc ID	1072972

All Electric Logs Run

Dual Induction
Compensated Neutron
Micro
Sonic
Cement Bond

QUALITY OILWELL CEMENTING, INC.

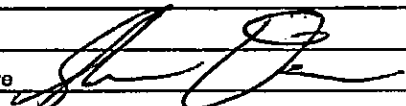
Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 HUSSEIN, MO 64500

No. 5220

Date	10/9/11	Sec.	1	Twp.	22	Range	17	County	Lawrence	State	KS	On Location		Finish	8:30 PM
Lease	Woods Trust	Well No.	1-1		Location Larned Hwy 56 1/2 SW, N into										
Contractor	Sterling Drilling Rig #2							Owner							
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.		1027'		Charge To								
Csg.	8 5/8" 23#		Depth		1027'		Captive-IT								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.	42'		Shoe Joint		42'		The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		62 3/4 Bbls		Cement Amount Ordered 400 ex 60/40 3% CC 2 3/4 gal								

EQUIPMENT

Pumptrk	9	No.	Cementor	Paul	Common	240
			Helper			
Bulktrk	12	No.	Driver	Matt	Poz. Mix	160
			Driver			
Bulktrk	2	No.	Driver	Doug	Gel.	8
			Driver			
JOB SERVICES & REMARKS					Calcium	15
Remarks:					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	
Est. Circ.					Sand	
Mix 400 ex					Handling	424
Displace					Mileage	
Land Plug					3 5/8	FLOAT EQUIPMENT
Cement Calculated					Guide Shoe	
Float Held					Centralizer	
Thank You!					Baskets	
					AFU Inserts	1
					Float Shoe	
					Latch Down	
					Rubber Plug	
					Head + Man. sold	
					Pumptrk Charge	Long Surface
					Mileage	31
					Tax	
					Discount	
					Total Charge	
X Signature 						

QUALITY OILWELL CEMENTING, INC.

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

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

No. 5196

Date	10-16-11	Sec.	1	Twp.	22	Range	17	County	Pawnee	State	Ks	On Location		Finish	5:15 AM
Lease	Woods Trust			Well No.	(1-1)			Location Larned, Ks - 120 on S6 Hwy to RdL							
Contractor	Sterling #2							Owner B W, N into							
Type Job	Plug							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	7 7/8"			T.D.	4030'			Charge To Shelby Resources/Captiva II							
Csg.	4 1/2" D.P.			Depth	3870'			Street							
Tbg. Size				Depth				City							
Tool				Depth				State							
Cement Left in Csg.				Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.							
Meas Line				Displace	1120 / mnd			Cement Amount Ordered 220 SX 60140 4% Gel 4% F.S.							

EQUIPMENT

Pumptrk	1	No.	Cement Helper	Cisco	Common	132 ACCT
Bulktrk	8	No.	Driver	Brett	Poz. Mix	88 PROPERTY #
Bulktrk	pin.	No.	Driver	Rick	Gel.	8 IFE #

JOB SERVICES & REMARKS

Remarks:	Cement did Circulate		Calcium	USED FOR
Rat Hole			Hulls	APPROVAL
Mouse Hole			Salt	50#
Centralizers			Flowseal	
Baskets			Kol-Seal	
DV or Port Collar			Mud CLR 48	
3870' - 50 SX			CFL-117 or CD110 CAF 38	
1650' - 50 SX			Sand	
540' - 50 SX			Handling	228
60' - 20 SX			Mileage	
			FLOAT EQUIPMENT	
			Guide Shoe	
Rathole - 30 SX			Centralizer	
Mousehole - 20 SX			Baskets	APPROVED
			AFU Inserts	CHRIS GOTTCHALK
220 SX 60140 4% Gel 4% F.S.			Float Shoe	OCT 25 REC. D
			Latch Down	

			Pumptrk Charge	plug
			Mileage	31
			Tax	
			Discount	
			Total Charge	

X Signature *[Signature]*

1

Scale 1:240 Imperial

Well Name: # 1-1 Woods Trust
Surface Location: 555' FSL, 705' FEL, Sec 1, T22S, R17W
Bottom Location:
API: 15-145-21653-00-00
License Number:
Spud Date: 10/8/2011 Time: 5:00 PM
Region:
Drilling Completed: 10/14/2011 Time: 11:48 PM
Surface Coordinates: 544863 & 1817741
Bottom Hole Coordinates:
Ground Elevation: 2013.00ft
K.B. Elevation: 2024.00ft
Logged Interval: 2800.00ft To: 4030.00ft
Total Depth: 4030.00ft
Formation: Arbuckle
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

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

Contact Geologist: Janine Sturdavant
Contact Phone Nbr: 303-907-2209/720-274-4682
Well Name: # 1-1 Woods Trust
Location: 555' FSL, 705' FEL, Sec 1, T22S, R17W API: 15-145-21653-00-00
Pool: 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 # 1-1 Woods Trust well was drilled to a LTD of 4029', bottoming in the Arbuckle. A TookeDAQ gas detector was employed during the drilling of all prospective formations, but there were no indications of gas. The only shows of oil were spotty dead oil staining in the upper part of the Arbuckle, but the low structural position precluded testing.

After log analysis, it was determined by all parties involved that the well should be plugged and abandoned.

One problem was detected at a depth of 3554'. The formation tops were running much lower than expected, so we strapped out of the hole and discovered that we were short to the tally board by 33.56'. The gelolgraph was reset to the actual depth before the Brown Lime. The ROP curve was laboriously shifted to the proper footage, foot by foot, above the Brown Lime. The current formation tops have been corrected to the revised ROP curve.

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

Respectfully submitted,
Charlie Sturdavant
Consulting Geologist

Well Comparison Sheet

Charlie Sturdavant Consulting

WELL COMPARISON SHEET

DRILLING WELL					DRILLING WELL				COMPARISON WELL			
Captive II #1-1 Woods Trust 5550' FSL & 705' FEL Sec. 1, T22S R17W					Captive II F-F Unit # 1 254' FNL & 350' FWL Sec. 7, T22S R16W				Captive II #3-7 Eakin Unit 1238' FNL & 1780' FEL Sec. 7, T22S R16W			
2024 KB					2021 KB		Structural Relationship		2017 KB		Structural Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Sample	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	1023	1001	1024	1000	1019	1005	-4	-5	1006	1011	-10	-11
Topeka	3140	-1116	3148	-1124	3141	-1117	1	-7	3140	-1123	7	-1
Queen Hill	3325	-1301	3326	-1302	3314	-1290	-11	-12	3318	-1301	0	-1
Heebner	3434	-1410	3433	-1409	3424	-1400	-10	-9	3426	-1409	-1	0
Toronto	3451	-1427	3454	-1430	3437	-1413	-14	-17	3442	-1425	-2	-6
Douglas	3467	-1443	3465	-1441	3462	-1438	-5	-3	3461	-1444	1	3
Brown Lime	3535	-1511	3534	-1510	3523	-1499	-12	-11	3526	-1509	-2	-1
Lansing	3543	-1519	3543	-1519	3532	-1508	-11	-11	3534	-1517	-2	-2
Muncie Creek	3667	-1643	3663	-1639	3656	-1632	-11	-7	3659	-1642	-1	3
Stark Shale	3742	-1718	3740	-1716	3725	-1701	-17	-15	3731	-1714	-4	-2
Base KC	3796	-1772	3800	-1776	3785	-1761	-11	-15	3786	-1769	-3	-7
Marmaton	3817	-1793	3810	-1786	3800	-1776	-17	-10	3800	-1783	-10	-3
Conglomerate	3869	-1845	3866	-1842	3844	-1820	-25	-22	3820	-1803	-42	-39
Arbuckle	3935	-1911	3942	-1918	3882	-1858	-53	-60	3866	-1849	-62	-69
Total Depth	4030	-2006	4029	-2005	3985	-1961	-45	-44	4000	-1983	-23	-22

Daily Drilling Report

Charlie Sturdavant Consulting

DAILY DRILLING REPORT

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

Well: #1-1 Woods Trust
Location: 555' FSL & 705' FEL
Sec. 1 T22S R17W
Pawnee County, KS

Captive II Office: 303-274-4682
Jim Waechter Cell: 303-478-3388
Wellsite Geologist: Charlie Sturdavant
Cell: (303) 907-2295
Office: (303) 384-9481

Elevation: 2024' KB 2013' GL
Field: Wildcat
API No.: 15-145-21653-0000
Surface Casing: 8 5/8" set @ 1023' KB

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

DATE	7:00 AM DEPTH	REMARKS
------	---------------	---------

10/8/2011	0 ft.	Spudded today at 1700 hrs.
10/9/2011	826 ft.	Drilling ahead.
10/10/2011	1027 ft.	WOC. About to drill out.
10/11/2011	2021 ft.	Drilling ahead.
10/12/2011	2907 ft.	Drilling ahead.
10/13/2011	3508 ft.	Drilling ahead.
10/14/2011	3831 ft.	Drilling ahead.
10/15/2011	4030 ft.	Reached TD @ 2348 hrs 10/14/2011. Tried to log, but couldn't reach bottom. Tripping back in to recondition and attempt to log again. Logging operations completed @ 1715 hrs, 10/15/2011.

SURFACE CO-ORDINATES

Well Type:	Vertical	Latitude:
Longitude:		
N/S Co-ord:	544863	
E/W Co-ord:	1817741	

CONTRACTOR

Contractor:	Sterling Drilling		
Rig #:	2		
Rig Type:	mud rotary		
Spud Date:	10/8/2011	Time:	5:00 PM
TD Date:	10/14/2011	Time:	11:48 PM
Rig Release:		Time:	

ELEVATIONS

K.B. Elevation:	2024.00ft	Ground Elevation:	2013.00ft
K.B. to Ground:	11.00ft		

ROCK TYPES

 Dolsec	 Lmst fw7>	 Shgy	 Carbon Sh	 Shcol
 Lmst fw<7	 shale, grn	 shale, gry	 shale, red	

ACCESSORIES

MINERAL	FOSSIL	STRAT./SED. STRUCTS	STRINGER
⊥ Calcareous	△ Bioclastic or Fragmental	▬ Stylolite	⋯ Chert
△ Chert White	△ Brachiopod		▬ Shale

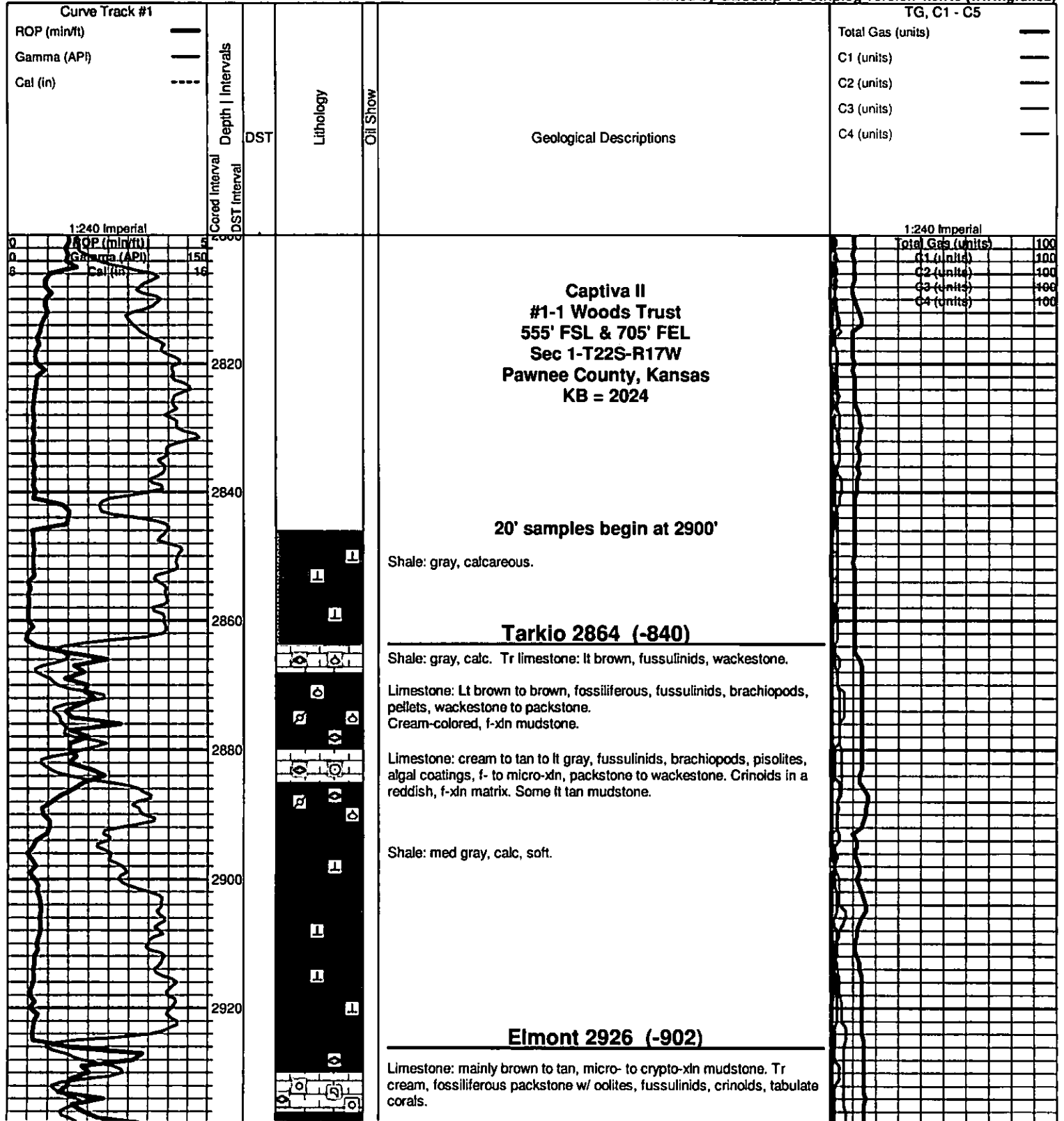
- Chert, white
- ▲ Chert, dark
- ∩ Glauconite
- P Pyrite
- Stromatolites
- Coral
- Crinoids
- F Fossils < 20%
- ◇ Fossiliferous
- Oolites
- △ Oomoldic
- ⊠ Pellets
- Peloids
- ▲ Spicules

- Shale
- ▭ green shale

OTHER SYMBOLS

- DST**
- DST Int
 - DST alt

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



Captiva II
 #1-1 Woods Trust
 555' FSL & 705' FEL
 Sec 1-T22S-R17W
 Pawnee County, Kansas
 KB = 2024

20' samples begin at 2900'

Shale: gray, calcareous.

Tarkio 2864 (-840)

Shale: gray, calc. Tr limestone: lt brown, fussulinids, wackestone.

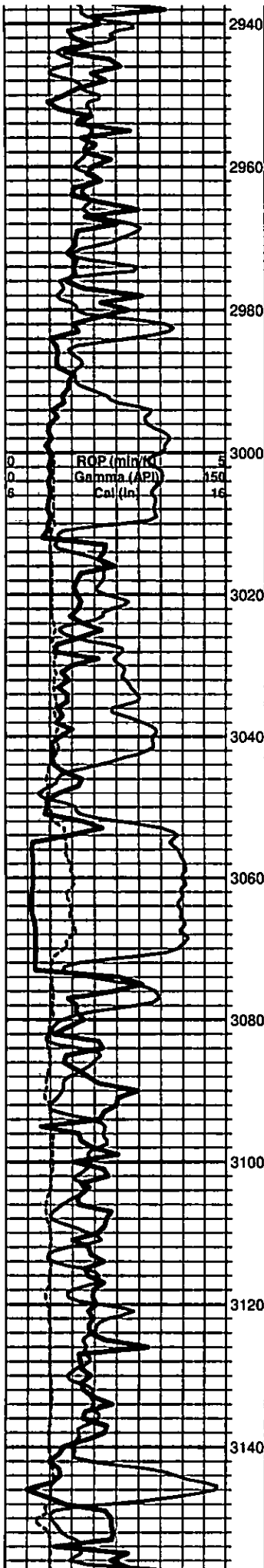
Limestone: Lt brown to brown, fossiliferous, fussulinids, brachiopods, pellets, wackestone to packstone. Cream-colored, f-xln mudstone.

Limestone: cream to tan to lt gray, fussulinids, brachiopods, pisolites, algal coatings, f- to micro-xln, packstone to wackestone. Crinoids in a reddish, f-xln matrix. Some lt tan mudstone.

Shale: med gray, calc, soft.

Elmont 2926 (-902)

Limestone: mainly brown to tan, micro- to crypto-xln mudstone. Tr cream, fossiliferous packstone w/ oolites, fussulinids, crinoids, tabulate corals.



Limestone: gray-brown to tan to lt brown, fossil debris, crinoids, fussulinids, brachiopods, packstone to wackestone set in a f- to micro-xn matrix. Some mudstone, some lt gray, calc shale laminations.

Limestone: lt gray, finely-succrosic, f-xn, mudstone, Brown, micro- to crypto-xn, sil fossiliferous wackestone to mudstone. Tight, no shows.

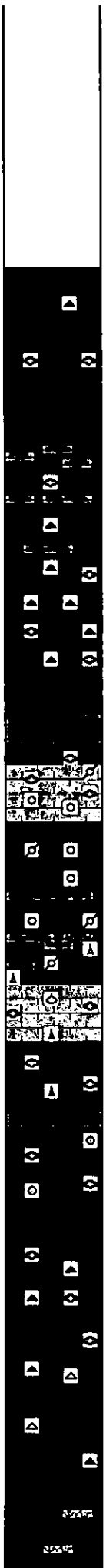
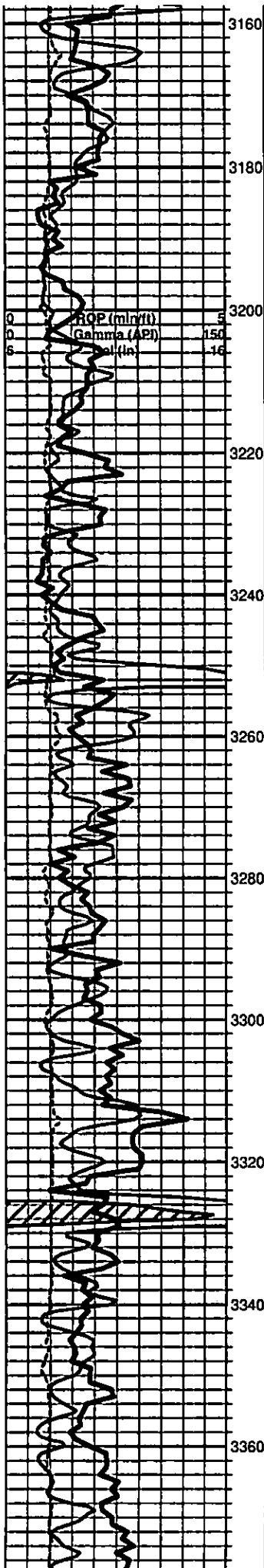
Mud-Co Mud Check
 2980 ft. @ 0945 hrs
 10/12/2011
 Vis: 44, Wt: 8.6
 PV: 10, YP: 11
 WL: 8.0, Cake: 1/32
 pH: 10.5, Ca: 20ppm
 CHL: 8100ppm
 Sol: 1.7, LCM: 1
 DMC: \$2,351.20
 CMC: \$6,371.35

Total Gas (units)	100
G1 (units)	100
G2 (units)	100
G3 (units)	100
G4 (units)	100

Howard 3073 (-1049)

Topeka 3140 (-1116)

Log top 3148



Limestone: Mottled gray and tan to lt gray, fossiliferous, fussulinids, some local thin brown shale laminations, wackestone to mudstone, tr black to gray fussulinid-bearing vitreous chert.

Total Gas (units)	100
G1 (units)	100
G2 (units)	100
G3 (units)	100
G4 (units)	100

King Hill Shale 3251 (-1227)

Shale: black, carbonaceous, calcareous.

Limestone: lt tan to lt gray, fossiliferous, fussulinids, oolites, pellets, f-xn w/ poor porosity, packstone.

Limestone: brown to tan, thin shale laminations, sli foss, pellets, oolites, crin., wackestone.

Limestone: lt tan to lt gray, sli fossiliferous, spicules, brach, tr isolated oolites, wackestone to crypto-xn micrite.

Limestone: tan, f-xn matrix w/ fussulinids, spicules, packstone.
Limestone: gray, micrite, tight.

Limestone: lt tan to lt gray, fusslinids and oolites in a f-xn matrix, wackestone.

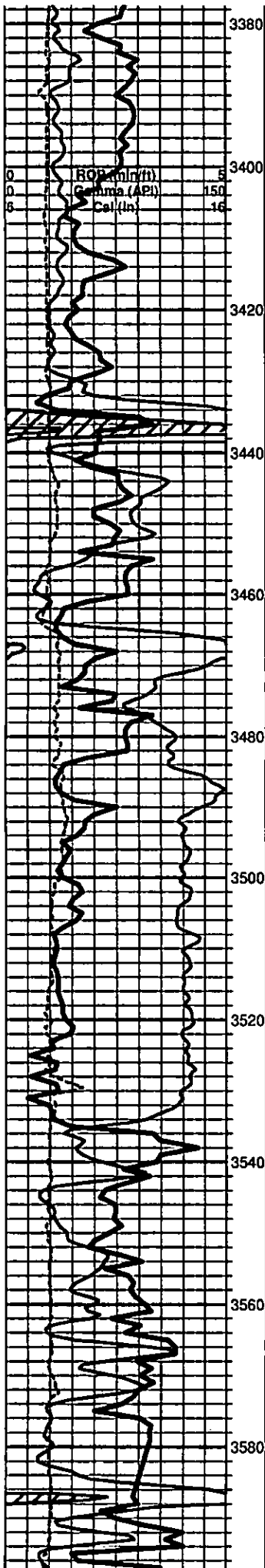
Queen Hill Shale 3325 (-1301)

Shale: black, carbonaceous, dolomitic.

Limestone: lt gray, sli mottled w/ brown spots and streaks, fossil debris w/ fuss. suspended in a vi-xn matrix, wackestone. Tr lt gray, fossiliferous, vitreous chert.

Limestone: lt gray to lt tan, some is mottled w/ brown spots, fossil debris, fussulinids set in a f- to vi-xn matrix, wackestone. Chert: cream to tan to lt gray to brown, spicular, fossiliferous, vitreous. Becomes more f-xn w/ depth, mudstone to micrite.

Limestone: cream, micro- to crypto-xn, tr foss frags, mudstone to micrite, styalitic.



Limestone as above w/ tr crin, tr fuss.

Limestone: cream to brown, crypto-xn, stylolitic micrite, tight, no shows.

Heebner Shale 3434 (-1410)

Shale: black, carbonaceous, dolomitic.

Shale: gray, calcareous.

Toronto 3451 (-1427)

Limestone: lt gray to tan, tr fossiliferous, fuss, brach, micro-xn matrix, pyritic. Tr pyritic, dark shale.

Limestone: cream, micro- to vf-xn, mudstone, tr sparry calcite. 20' thick.

Douglas 3467 (-1443)

Shale: vari-colored, maroon, brown, tan, lt brown, gray, dolomitic.

Stop at 3554' to strap out and adjust for one joint of pipe that was mistakenly tallied into the total, pushing all tops down by 33.56'.

Brown Lime 3535 (-1511)

Limestone: brown, micro- to crypto-xn, mudstone.

Lanasing 3543 (-1519)

Limestone: white to cream, tr fossiliferous in parts, but mostly micro- to crypto-xn, mudstone to micrite, tight, no shows. Tr cream, spicular, vitreous chert.

Limestone as above w/ some tan micrite.

Limestone: as above, tr tan chert, micrite w/ tr crinoids. Tr brown, pelletal wackestone.

Limestone: brown, mottled, pelletal, fossiliferous packstone, crin, spicules, tr chert, tr sparry calcite.

Shale: black, carbonaceous, hydrocarbon aroma, dolomitic.

Limestone: cream to tan, f- to crypto-xn matrix, pellets, fossil debris, tr crin, tr fussulinids, packstone to mudstone, variable texture. Fair spotty.

Total Gas (Units)	100
G1 (Units)	100
G2 (Units)	100
G3 (Units)	100
G4 (Units)	100

Mud-Co Mud Check
3551 ft. @ 0930 hrs
10/13/2011
Vis: 49, Wt: 9.15
PV: 13, YP: 12
WL: 7.2, Cake: 1/32
pH: 10.5, Ca: 20ppm
CHL: 7300 ppm
Sol: 6.0, LCM: tr
DMC: \$2,986.65
CMC: \$9,358.00

Wt 9.1, Vis 51

inter-xln por to tight. No shows.

Limestone: tan to lt brown, pelletal packstone to very well-cemented oolite grainstone. Tight, no shows. Tr dark to cream vitreous chert.

Limestone: cream, micro- to crypto-xln, mudstone to micrite.

Lansing "G" Zone Porosity 3638 (-1614)

Limestone: cream to lt tan, oolitic grainstone w/ good oomoldic porosity, no odor, no shows.

Limestone: cream to lt tan, micro- to crypto-xln matrix, mudstone to micrite, tr pyrite, tr cream to dark brown, vitreous, sli fossiliferous (gastropods) chert, tr pellets.

Muncie Creek 3667 (-1643)

Shale: black, carbonaceous, dolomitic.

Limestone: lt tan, oolitic grainstone w/ excellent oomoldic porosity, vf-xln cement w/ little porosity. No shows. Becomes tight with depth, more well-cemented.

Limestone: cream to tan, micro- to crypto-xln matrix w/ no porosity, mudstone/micrite. No shows.

Limestone: cream to tan, f-xln, mudstone. Tr tan to dark brown vitreous chert.

Limestone: lt tan, oolitic grainstone w/ fossil debris, vf-xln cement, good oomoldic porosity, no shows. Tr black, carbonaceous, dolomitic shale.

Limestone: cream to lt tan, micro-xln to crypto-xln, micrite, tight, no shows, tr green, glauconitic shale inclusions.

Stark Shale 3742 (-1718)

Shale: black, carbonaceous, dolomitic, and greenish-gray, mottled w/ dark streaks and irregular spots, waxy, soft.
Limestone: tan, bioclastic/pelletal/shaley wackestone and cream micrite.

Limestone: cream to tan to lt gray, micro- to crypto-xln, mudstone to micrite, tr sparry calcite (lithographic).

Tr black, carbonaceous shale.

Limestone: lt gray mottled w/ brown, bioclastic packstone, thin, irregular streaks of green, earthy shale.

Limestone: cream to lt gray, micro- to crypto-xln, mudstone to micrite, tr pyrite.

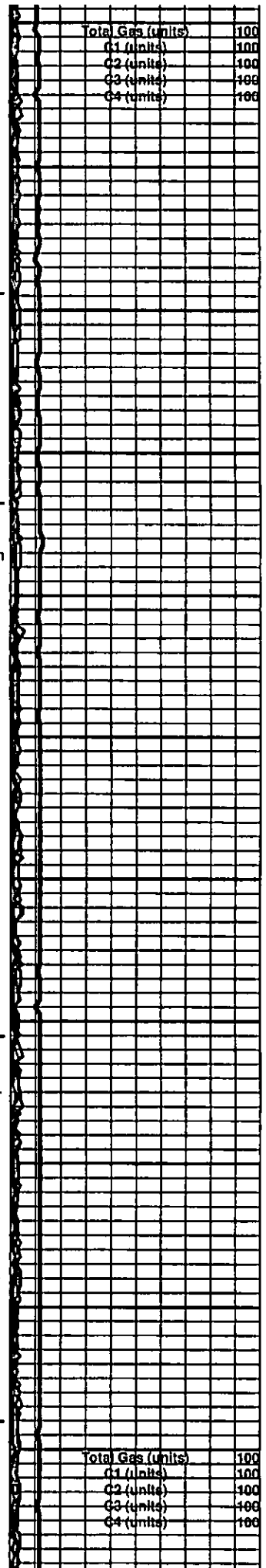
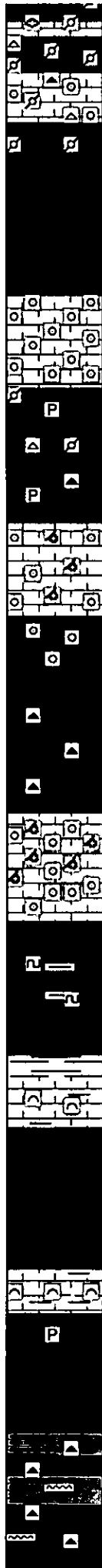
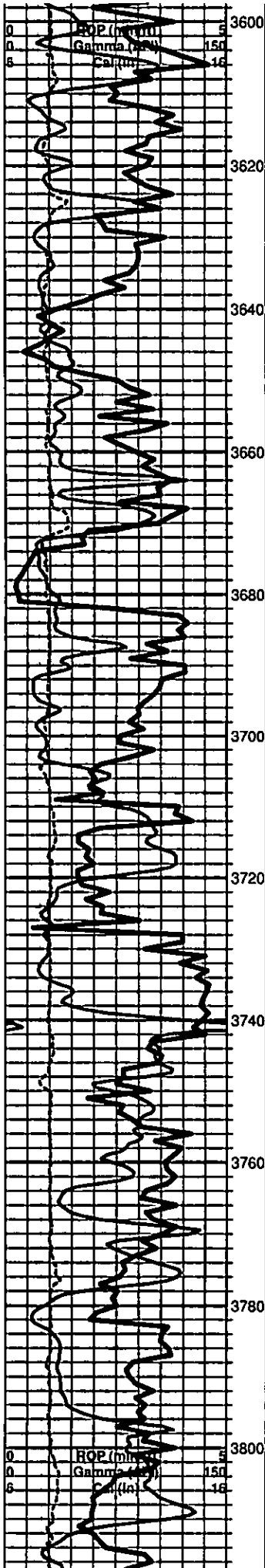
Base Kansas City 3796 (-1772)

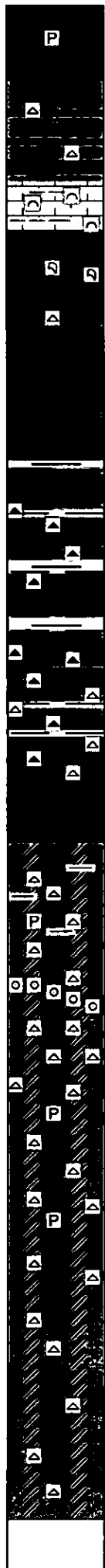
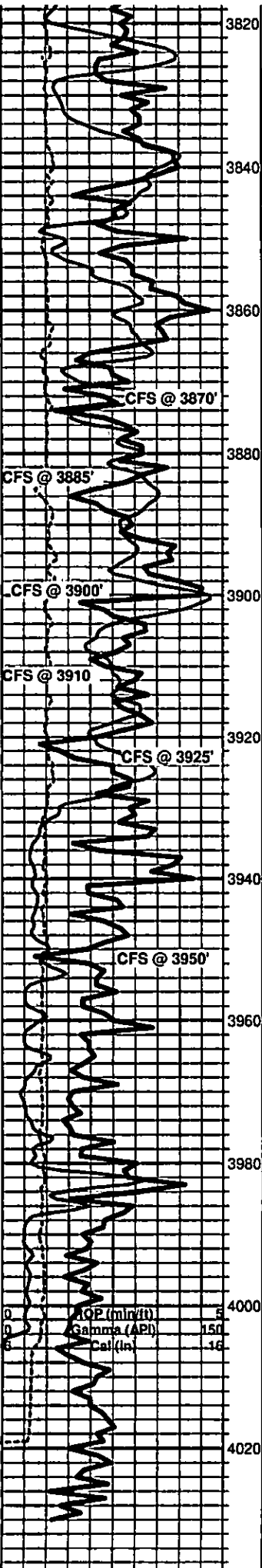
Shale: gray, lt gray, maroon, orange chert,

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

Total Gas (units)	100
C1 (units)	100
C2 (units)	100
C3 (units)	100
C4 (units)	100

Marmaton 3817 (-1793)





Limestone: cream to tan to lt gray, tr foss. frags, tr pyrite, vf- to crypto-xn mudstone to wackestone, dense, no shows.

Shale: vari-colored, gray, maroon, greenish-gray, tr orange chert.

Limestone: tan, bioclastic grainstone to packstone w/ green shale coating and orange chert inclusions..

Limestone: tan w/ green inclusions, vf-xn mudstone to micritic. Tabulate coral (favisites?), white.

Shale: vari-colored, green, lt greenish-gray, gray, lt gray, maroon. Amber to tan vitreous chert.

Shaley conglomerate: vari-colored shales, mainly maroon.

Shaley conglomerate w/ vari-colored shales and chert: maroon, reddish-brown, brown, light gray, greenish-gray. Reddish-rust limestone frags.

Chert increases in frequency with depth.

Some well-rounded, med gr sand grains in red shale. Simpson?

Sample washes red. Some yellow ochre-colored detrital chert.

Chert seems to be increasing in frequency.

Hydrocarbon odor in 3930-3940' sample. Cherty, shaley conglomerate

Arbuckle 3935 (-1911)

Hydrocarbon odor in 3940-3950' sample. Finally have finely succrosic dolomite w/ spotty dead oil stain. No fluor. No cut. Tr pyrite. A few thin, green shale patches and irregular laminations.

Chert: cream to tan, vitreous, some w/ sli dead oil staining on fractured surfaces.

60 min sample has finely succrosic dolo w/ fewer stained frags. Tr oolitic grainstone dolo. Color is tan, porosity is minimal.

Dolomite: lt tan, finely succrosic to micritic, scattered vuggy porosity, mostly tight. Hydrocarbon aroma. Still carrying spotty dead oil staining w/o fluor or cut. Some fragments with algal layering, some with oolites. Chert: tan to cream, vitreous, some white w/ oolites, some spotty staining on fractured surfaces.

Hydrocarbon aroma is gone by the 3980'-3990' sample.

Dolomite: as above w/ chert, some fragments of coarsely-xn succrosic dolo w/ xls up to 0.5mm in width. Tr pyrite.

Dolomite as above w/ oolitic chert, white to tan, vitreous.

Mud-Co Mud Check
3832 ft. @ 0700 hrs
10/14/2011
Vis: 53, Wt: 9.3
PV: 18, YP: 16
WL: 8.0, Cake: 1/32
pH: 11.5, Ca: 40ppm
CHL: 7,000 ppm
Sol: 6.7, LCM: tr
DMC: \$839.40
CMC: \$10,197.40

Total Gas (units)	100
G1 (units)	100
G2 (units)	100
G3 (units)	100
G4 (units)	100

2330 hrs. 10/14/11,
Vis: 48, Wt: 9.5
1000 hrs, 10/15/11,
Vis: 60, Wt: 9.0

10/15/2011
Superior Well Services Logging TD 4029'
Completed logging operations @ 1715 hrs

Geologist: Charlie Sturdavant off location
@ 1800 hrs 10/15/2011

4030 ft. @ 1015 hrs
10/15/2011
Vis: 52, Wt: 9.3
PV: 19, YP: 15
WL: 8.4, Cake: 1/32
pH: 11.5, Ca: 40ppm
CHL: 7,600 ppm
Sol: 6.7, LCM: tr
DMC: \$153.90
CMC: \$10,351.30

4040

4060

4080