

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

ORIGINAL

OPERATOR: License # 31725
Name: Shelby Resources L.L.C./ Captiva Energy L.L.C.
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
Wellsite Geologist: Adam Kennedy
Purchaser: Plains Marketing

Designate Type of Completion: **KCC WICHITA**
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 Dry Other
(Core, WSW, Expl., Cathodic, 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
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
9/16/09 9/26/09 10/28/09
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 151-22341-0000
Spot Description: NW/4
SW SE NE NW Sec. 34 Twp. 29 S. R. 14 East West
1115' Feet from North / South Line of Section
2285' Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Pratt
Lease Name: Davis Well #: 1-34
Field Name: Shriver

Producing Formation: Viola
Elevation: Ground: 1957' Kelly Bushing: 1966'
Total Depth: 4642' Plug Back Total Depth: 4585'
Amount of Surface Pipe Set and Cemented at: 253' 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 Alt I NW 2-2-10
(Data must be collected from the Reserve Pit)
Chloride content: 8300 ppm Fluid volume: 800 bbls
Dewatering method used: Hauled off water
Location of fluid disposal if hauled offsite: _____
Operator Name: Oil Producers of Kansas
Lease Name: Watson #2 License No.: 8061
Quarter SW Sec. 8 Twp. 29 S. R. 15 East West
County: Pratt Docket No.: D-24324

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: [Signature]
Title: Production manager Date: 1/04/10
Subscribed and sworn to before me this 4 day of January,
20 10.
Notary Public: [Signature]
Date Commission Expires: _____

KCC Office Use ONLY

Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution

NOTARY PUBLIC, State of Kansas
MICHELLE R. HAAS
My Appt. Exp. 10/4/11

Operator Name: Shelby Resources L.L.C./ Captiva Energy L.L.C. Lease Name: Davis Well #: 1-34
 Sec. 34 Twp. 29 S. R. 14 East West County: Pratt

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 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 (Attach Additional Sheets) 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 (Submit Copy) List All E. Logs Run: Dual Induction, Compensated Density Neutron, Micro, Sonic and Cement Bond Logs	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Topeka</td> <td>3440'</td> <td>-1474'</td> </tr> <tr> <td>Heebner</td> <td>3807'</td> <td>-1841'</td> </tr> <tr> <td>Lansing</td> <td>4002'</td> <td>-2036'</td> </tr> <tr> <td>Base KC</td> <td>4392'</td> <td>-2426'</td> </tr> <tr> <td>Viola</td> <td>4501'</td> <td>-2535'</td> </tr> <tr> <td>Simpson</td> <td>4531'</td> <td>-2565'</td> </tr> <tr> <td>Arbuckle</td> <td>4631'</td> <td>-2665'</td> </tr> </table>	Name	Top	Datum	Topeka	3440'	-1474'	Heebner	3807'	-1841'	Lansing	4002'	-2036'	Base KC	4392'	-2426'	Viola	4501'	-2535'	Simpson	4531'	-2565'	Arbuckle	4631'	-2665'
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CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	17.1/4"	13.3/8"	48#	253'	60/40 Poz	250	3% ccl, 2% gel
Production	7.7/8"	5.1/2"	15.5#	4629"	60/40 Poz/AA2	50/200	3% ccl, 2% gel

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 (Amount and Kind of Material Used)	Depth
4	4497-99'	RECEIVED	
4	4503-05'	JAN 13 2010	
		KCC WICHITA	
		250 gal 15% INS	
		250 gal 15% INS/ 1000 gal 15% INS	

TUBING RECORD: Size: <u>2.3/8"</u> Set At: <u>4550'</u> Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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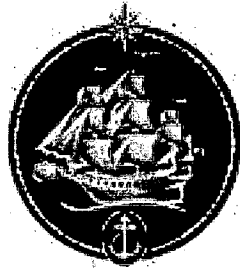
Date of First Resumed Production, SWD or Enhr. <u>1/23/08</u> ; <u>10/28/09</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)
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Estimated Production Per 24 Hours	Oil Bbls. <u>2</u>	Gas Mcf	Water Bbls. <u>18</u>	Gas-Oil Ratio	Gravity <u>36</u>
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DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease (If vented, Submit ACO-18.)	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>4497-4505'</u>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

*See bottom of 2nd page
 Oper. on 4/26/10
 KCC*



CAPTIVA ENERGY, LLC

Davis # 1-34
1115' FNL & 2285' FWL
Sec. 34-29S-14W
Pratt County, Kansas

RECEIVED

JAN 13 2010

KCC WICHITA

GL: 1957'
KB: 1966'

9/17/2009

Surface Casing

Spud at 4:15 p.m. on 9/16/09. drill 17 1/2" hole to 255'. Ran 6 joints of new 13. 3/8"-48# casing, tallied 242.76' and set at 253.76' KB. Cemented by Allied Cementing with 250 sx 60/40 Poz 2% gel, 3% CC. cement did circulate. Plug down at 3:00 a.m. welded straps on the bottom 3 joints and welded collars on the next 3 joints.

9/27/09

Production Casing

On location @ 2:00 a.m. RIH with drill pipe and condition the hole. Laying down drill pipe and collars, Begin running 113 joints 5 1/2" (15.5#) casing. Shoe joint was 20.04'. Insert @ 4608.73'. Marker joint was 5 joints off bottom and measured 20.13'. Set casing @ 4628.77' KB. Landed casing 13.23' off RTD 4642' and LTD, 4642'. Ran a basket on top of #1 and centralizers on #3, 5, #7, #9 and #11. Landed casing @ 5:50 a.m. (9/27/09) 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 50 sx 60/40 Poz-Mix as scavenger flush, followed by 200 sx AA-2 cement down casing. Had good circulation throughout the job. Plug down @ 10:00 a.m. and held 1500#. Release pressure and float held. Release Sterling Rig #4 @ 11:15 a.m.

Customer <i>Captiva Energy</i>	Lease No.	Date <i>9-27-09</i>
Lease <i>Davis</i>	Well # <i>1-34</i>	
Field Order # <i>0826</i>	Station <i>Platt</i>	Casing <i>5/2 153</i>
		Depth <i>4628</i>
Type Job <i>CNW-5/1 L.S.</i>	Formation	County <i>Platt</i>
		State <i>KS</i>
		Legal Description <i>34-29-14</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>5/2</i>	Tubing Size	Shots/Ft	<i>2005</i>	Acid <i>AAA 1.37</i>	RATE	PRESS	ISIP	
Depth <i>4628</i>	Depth	From	To <i>1005</i>	Pre Pad <i>60/110 P02</i>	Max		5 Min.	
Volume <i>110</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>V.C.</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <i>4627</i>	Packer Depth	From	To	Flush <i>109.6</i>	Gas Volume		Total Load	

Customer Representative	Station Manager <i>Steve O. Davis</i>	Treater <i>Steve O. Davis</i>
Service Units <i>07283</i>	<i>19832</i>	<i>21010</i>
Driver Names <i>Dolan</i>	<i>LaChance</i>	<i>Mattel</i>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>5:00 AM</i>					<i>On location Safety meeting</i>
					<i>Run 5/2 casing sol to 4628.77</i>
					<i>Centralizers 3-5-7-9-11 Basket #1</i>
					<i>Casing on Bottom</i>
					<i>Hook up to casing Break Circ w/Key</i>
<i>9:30</i>	<i>300</i>		<i>5</i>	<i>5</i>	<i>H2O Ahead</i>
<i>9:31</i>	<i>300</i>		<i>10</i>	<i>5</i>	<i>Mix 50 sks @ 12#/gal</i>
<i>1:23</i>	<i>250</i>		<i>49</i>	<i>5</i>	<i>Mix 200 sks @ 15.3#/gal</i>
					<i>Shut Down Clear pump + Line</i>
					<i>Koloco plug</i>
<i>1:40</i>	<i>0</i>		<i>0</i>	<i>6</i>	<i>Start Displacement</i>
<i>7:54</i>	<i>300</i>		<i>80</i>	<i>6</i>	<i>lift Pressure</i>
<i>9:58</i>	<i>600</i>		<i>100</i>	<i>5</i>	<i>Slow Rate</i>
<i>0:00</i>	<i>1500</i>		<i>110</i>	<i>4</i>	<i>Plug Down - Held</i>
			<i>6/4</i>		<i>Mix 50 sks KH/MH</i>
					<i>circulation thru job</i>
					<i>Job complete</i>
					<i>Thanks Steve</i>

ALLIED CEMENTING CO., LLC. 34395

TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT:
Medicine Lodge

DATE <u>9-16-09</u>	SEC. <u>34</u>	TWP. <u>29s</u>	RANGE <u>14w</u>	CALLED OUT <u>2:30 pm</u>	ON LOCATION <u>4:30 pm</u>	JOB START <u>2:30 AM</u>	JOB FINISH <u>2:00 AM</u>
LEASE <u>Davis</u>		WELL # <u>1-34</u>	LOCATION <u>Cross ks, 3s, 1/2 w, S/INTO</u>			COUNTY <u>Plym</u>	STATE <u>KS</u>
OLD OR <u>NEW</u> (Circle one)							

CONTRACTOR Sterling
 TYPE OF JOB Surface
 HOLE SIZE 17 1/2 T.D. 255
 CASING SIZE 13 3/8, 8 5/8 DEPTH 242.76', 11'
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM 100
 MEAS. LINE _____ SHOE JOINT 20"
 CEMENT LEFT IN CSG. 20' per curc Reg
 PERFS. _____
 DISPLACEMENT 35 1/2 bbls Fresh Water

EQUIPMENT

PUMP TRUCK CEMENTER Greg G.
 # 352 HELPER David F.
 BULK TRUCK _____
 # 364 DRIVER Darin F.
 BULK TRUCK _____
 # _____ DRIVER _____

REMARKS:

Rite on bottom, break circulation, pump 3 Fresh, pump cement,
250sx 60:40:3:2, start dip, see lift, slow rate, dip
with 35 1/2 bbls Fresh, shut in, cement to cellar

OWNER Shelby Resources

CEMENT
 AMOUNT ORDERED 250sx 60:40:3:2 + 275 gel

COMMON	Class A 150 @	13.50	2025.00
POZMIX	100 @	7.55	755.00
GEL	4 @	20.25	81.00
CHLORIDE	8 @	51.50	412.00
ASC	@		
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	250 @	2.25	562.50
MILEAGE	250 @		300.00
TOTAL			4135.50

SERVICE

DEPTH OF JOB	255'		
PUMP TRUCK CHARGE			991.00
EXTRA FOOTAGE	@		
MILEAGE	7 @	7.00	49.00
MANIFOLD	@		
	@		
	@		
TOTAL			1,040.00

CHARGE TO: Shelby Resources
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

 @ _____
 @ _____
 @ _____
 @ _____

ADAE

Captiva Energy II, LLC

DAILY DRILLING REPORT

Company: Captiva Energy II, LLC
455 Union Blvd., Suite 208
Lakewood, CO 80228

Well: Davis #1-34
Location: 1115' FNL & 2285' FWL
Sec. 34 - 29S - 14W
Pratt Co., KS

Jim Waechter Cell: (785) 623-1525

Operations Manager: Chris Gottschalk (785) 623-1524

Wellsite Geologist: Adam T. Kennedy
Cell: 316.650.9677
Office: 316.558.5202

Elevation: 1957' GL & 1966' KB
Field: Shriver
API#: 15-151-22341-00-00
Surface Casing: 242' of 8 5/8" set @ 253' KB

Drilling Contractor: Sterling Drilling, Co. Rig #4 620.388.4192 Toolpusher: Lanny Saloga - 620.388.4397




DATE	7:00 AM DEPTH	Last 24 Hour Operations
9.20.09	3400'	Drilling and connections through the Upper Topeka. Displace mud system @ 3450'. Geologist on location @ 1900 hrs 9.20.09. DMC: \$1,345.60 CMC: \$7,2140.40
9.21.09	3900'	Drilling and connections Topeka through Douglas. CFS in Lower Douglas Sand. DMC: \$1,295.50 CMC: \$8,539.9
9.22.09	4350'	Drilling and connections Lansing A through L. Drilling ahead into Marm and Viola sections. DMC: \$1,996.45 CMC: \$10,536,35
9.23.09	4492'	Drilling and connections Marmaton through Miss and Kinderhook. CFS @ 4492', show warrants test. Short trip 15 stands, drop survey and stap out. Survey 1 deg, strap .22' long to board. Trip in with test tool, conduct DST #1, TOH with tool. DMC: \$1,605.35 CMC: \$12,141,70
9.24.09	4518'	Drilling and connections Kinderhook into Viola. Down several hours to replace mud pump @ repair replacement pump. CFS @ 4518', show warrants test. TOH for DST #2, conduct test, TIH to resume drilling. DMC: \$519.55 CMC: \$12,661,25
9.25.09	4538'	Drilling and connections Viola through Upper Simpson Sand. CFS @ 4536', 4537', 4538'. Show warrants test, TOH for DST #3, conduct test, TIH to resume drilling. DMC: \$1,280.90 CMC: \$13,942.15
9.26.09	4620'	Drilling and connections few more feet into Simpson Sand. CFS @ 4542', 4543'. Shows warrant test, TOH for DST #4, conduct test. TIH to resume drilling. Drilling and connections Lower Simpson. DMC: \$736.05 CMC: \$14,678.20
9.27.09	4642'	Drilling and connections Simpson through Arbuckle. CFS @ 4642' RTD of 4642' reached @ 830 hrs 9.26.09. Logging operations completed 2000 hrs 9.26.09, geologist off location @ 2030 hrs 9.26.09.

RECEIVED

JAN 13 2010

KCC WICHITA

Curve Track 1

ROP (Min/Ft) 
 Gamma (API) 
 Caliper (inches) 







Depth

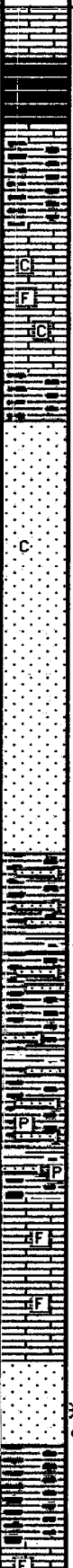
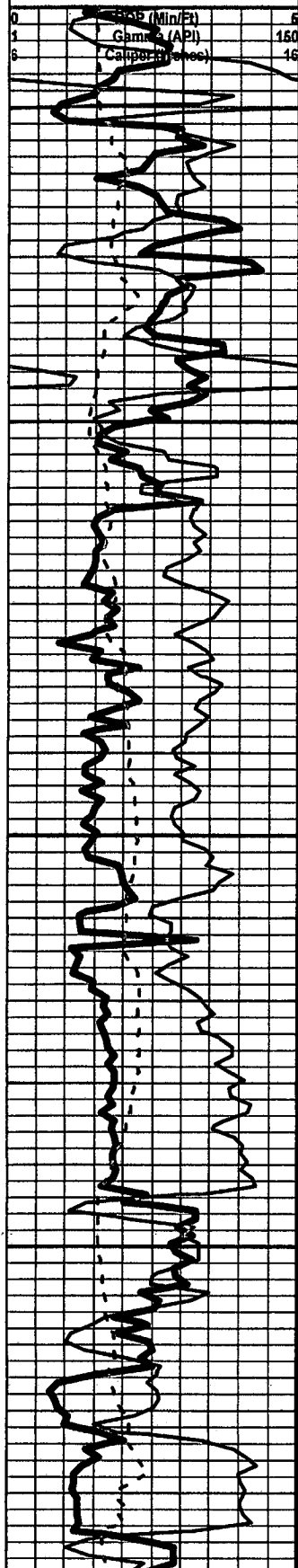
Lithology

Oil Shows

Geological Descriptions

Engineering Data

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

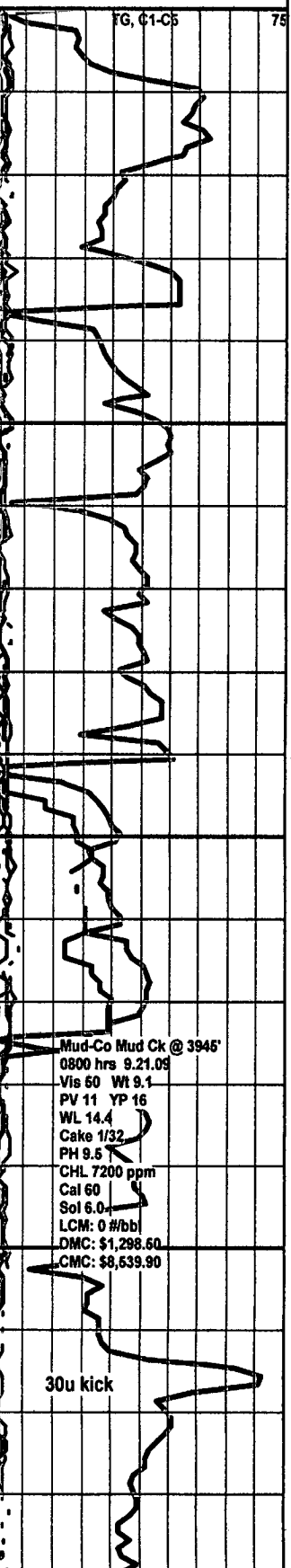


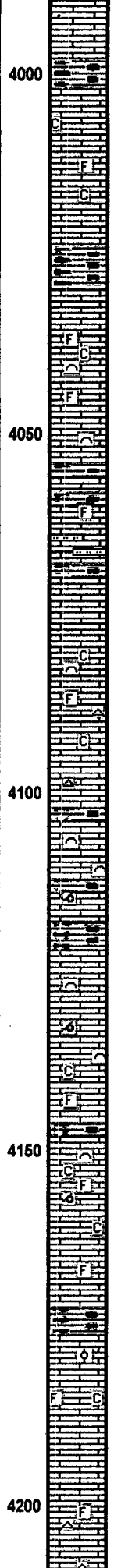
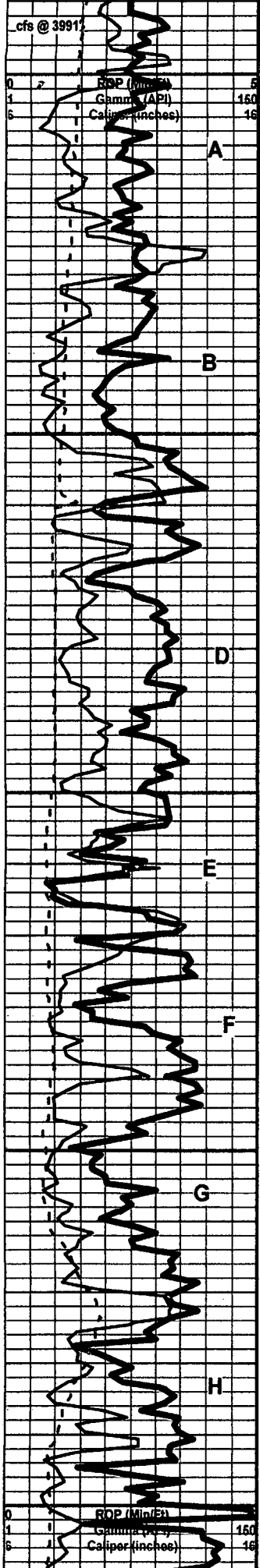
Heebner 3807 (-1841)
 Shale: black carbonaceous, streaks brown, soft to blocky.
 Shale: gray waxy to blocky, micaceous, slightly carbonaceous.

Toronto 3826 (-1860)
 Limestone: cream light gray light brown, fossiliferous, scattered secondary rexln, scattered poor interxn porosity, overall porosity poor, <5% samples dead black stain, cherty chalky, samples wash gray, no other shows noted.

Douglas 3844 (-1878)
 Sandstone: light gray cream pale green, very fine to fine grained, poorly sorted, sub rounded to sub angular, most samples friable, slightly chalky when broken, samples wash gray, with: gray shales, limestones as above.
 Sandstone: light gray, very fine grained, poor to well sorted, subrounded to subangular, very soft friable samples, few samples bleed gas bubbles when broken, no other shows noted.
 Sandstone: light gray, fine to medium grained, poor to fairly sorted, sub rounded, most samples friable, very micaceous, slightly silty, no shows noted, with: gray green waxy soft shale.

Brown Lime 3985 (-2019)
 Limestone: light tan light brown dark brown, lithographic to microxln, scattered fossil fragments, dense hard, very poor porosity, no shows.
 Sandstone: light gray green quartz, very fine grained to fine grained, scattered fossil fragments, calcareous to friable, well sorted, subrounded to rounded, poor visible porosity, 60% samples bleed gas bubbles when broken and under lamp, <6% samples bleed light brown oil when broken, slight odor in cup.





Limestone: light tan light brown dark brown, autographic to slightly microxn, scattered fossil fra recrystallized oolites fusulinids, very dense hard, scattered crystalline material, no shows noted, with shales gray waxy soft.

Lansing 4002 (-2036)

Limestone: white cream light brown, micro to fine xln, scattered fossil fragments, soft chalky to hard dense, abundant crystalline material, some samples poor to fair 2ndary rexin, scattered poor pinpoint interxln porosity, no shows noted

Limestone: white light brown greenish, lithographic to slightly microxn, fossiliferous to sub bioclastic, scattered crystalline material some 2ndary recementation, visible porosity very poor, no shows noted, slightly chalky.

Limestone: white cream light brown, lithographic to microxn, abundant fossils to bioclastic, very crystalline, scattered good 2ndary rexin, scattered poor interxln porosity, overall porosity very poor faint odor in cup, no visible shows noted, slightly chalky.

Limestone: white cream brown, cryptoxln to microxn, scattered fossil fragments, abundant crystalline material with 2ndary recementation, poor vuggy porosity in few samples with dead brown stain, overall porosity very poor, no other shows noted, with: light gray silty sandstones, micaceous sub rounded, fairly sorted.

Limestone: light gray brown, cryptoxln to microxn, fossiliferous to sub bioclastic, slightly recrystallized, mostly dense barren, very poor porosity, few samples soft chalky, no shows noted, increase in shales gray black brick red.

Limestone: white cream light gray brown, microxn, fossiliferous sub bioclastic, sub chert, most samples hard dense scattered few chalky soft, overall visible porosity poor, no shows noted, still carrying background shales.

Limestone: cream light brown brown, microxn, abundant fossils bioclastic oomoldic, scattered poor interxln oom porosity mostly recemented, overall porosity very poor, <5% samples dead brown stain slight odor and pale yellow fl.

Limestone: white cream light brown, microxn, decrease in fossil fragments, scattered poor to fair interxln porosity, overall porosity still poor, abundant crystalline material with scattered 2ndary rexin no shows noted.

Limestone: cream light brown dark brown, microxn, abundant fossils bioclastic oomoldic, some samples large molds with large crystalline material and 2ndary rexin, overall porosity is poor and recemented, no shows noted.

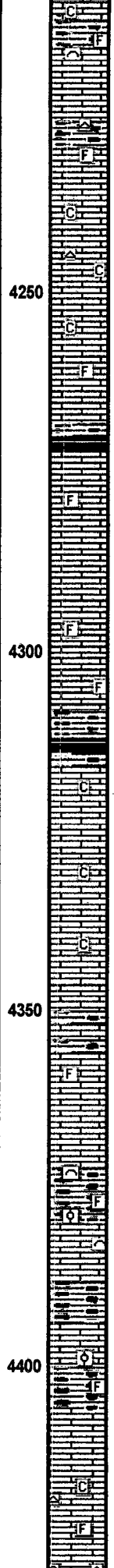
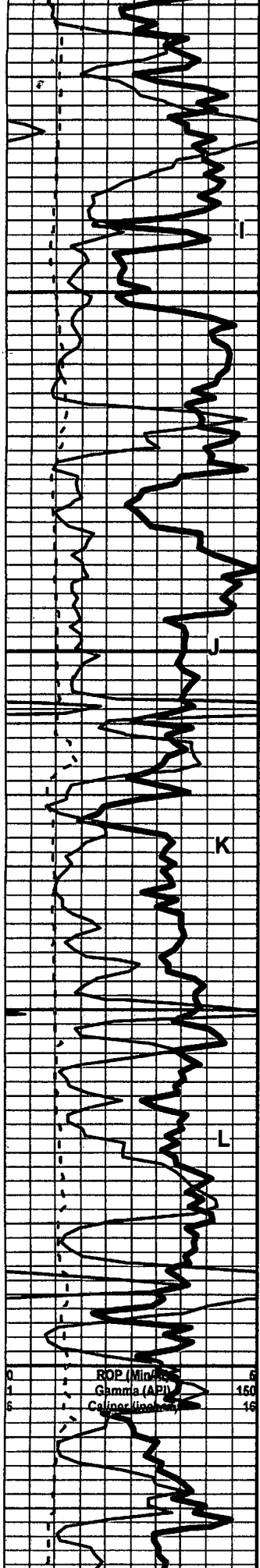
Limestone: white cream, lithographic to microxn, decrease in fossils, samples softer chalky, no shows noted.

Limestone: white cream light brown, microxn, fossiliferous to sub bioclastic oomoldic, scattered p to fair oomoldic porosity some recemented, some samples very soft chalky, no shows noted.

Limestone: white cream brown, lithographic to microxn, scattered fossil fragments, poor to fair interxln trace vuggy porosity, very dense matrix recemented, scattered 2ndary rexin, overall porosity poor no shows noted.

Limestone: white cream dark brown, microxn, fossiliferous broken frags oolites, scattered poor interxln porosity, most samples dense barren, <5% dead black stain, sub chalky.

Limestone: white cream light tan, microxn, scattered fossil fragments, scattered poor interxln porosity, overall porosity very poor, dense barren, scattered chert white opaque black stain on edge no shows noted.



Limestone: white cream tan, lithographic to microxn, fossiliferous sub bioclastic fossil frags fusulinids, abundant crystalline material, dense matrix, overall porosity poor, no shows noted, sub chalky cherty

Limestone: white cream light brown, microxn, scattered fossil fragments, samples very hard recemented, increase in chert white opaque, overall porosity very poor, no shows noted.

Limestone: white cream light tan, lithographic to microxn, very few fossils, mostly nondescript bar dense limestones, increase in chalky soft sub chert, no shows noted.

Limestone: white cream, lithographic, barren, similar to above with increasing chalk, few samples de black stain on edges, no shows noted.

Shale: black carbonaceous gray waxy micaceous

Limestone: white cream, lithographic to microxn, very few fossils, mostly barren dense with few scattered good interxn porosity good 2ndary rexin, <5% samples dead brown stain on porosity, no other shows noted, decrease in chalk.

Limestone: white cream light brown, lithographic, scattered fossil fragments mostly barren dense recemented, scattered poor interxn porosity trace vugs, no shows noted.

Stark Shale 4308 (-2342)

Limestone: white tan light brown, lithographic, mostly nondescript barren, few scattered 2ndary rex small crystalline material, overall porosity poor no shows noted, slightly chalky.

Limestone: white cream light brown, lithographic to fine xn, mostly barren, few samples good inter porosity with 2ndary rexin, no shows noted, chalky.

Limestone: white cream, lithographic to microxn, scattered fossil frags, mostly non descript barren dense, overall porosity very poor, no shows noted, decrease in chalk.

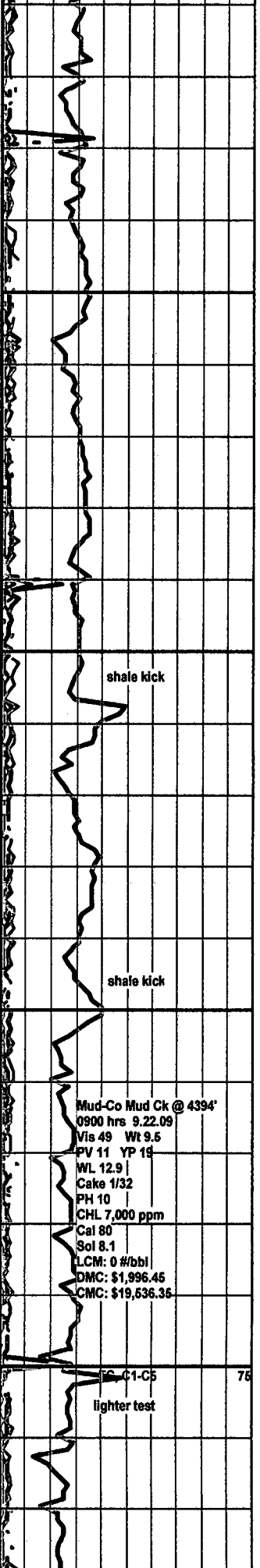
Limestone: white cream brown, microxn, scattered fossil frags sub bioclastic oolitic, scattered poor to interxn porosity with dead stain on edges, overall porosity poor, no other shows noted, decrease in chalk.

BKC 4392 (-2426)

Limestone: white cream brown, lithographic to microxn, scattered fossil frags some oolites, abundant crystalline material with 2ndary recementation, very poor overall porosity, no shows noted.

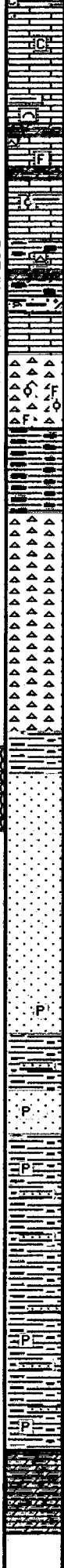
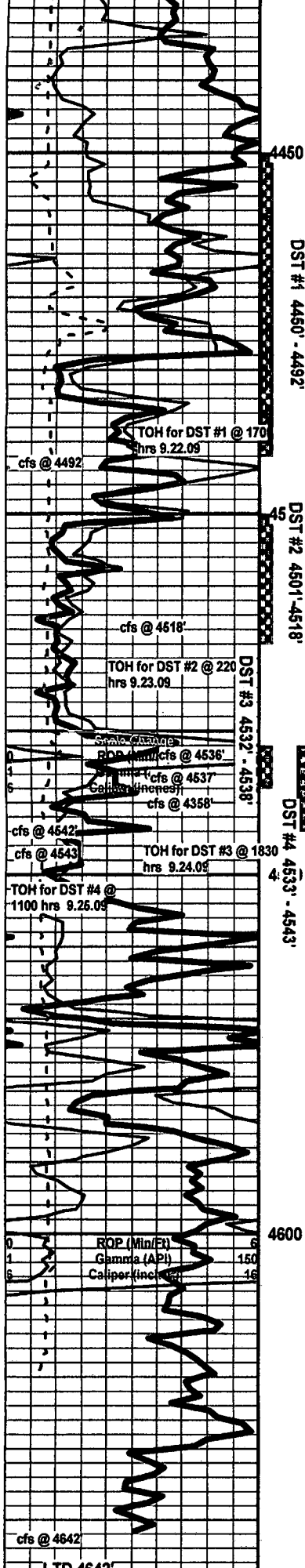
Limestone: cream light tan brown, mostly lithographic slightly microxn, very few fossils, scattered 2ndary rexin, overall porosity very poor, slightly chalky, no shows noted.

Limestone: white cream light brown, microxn, very few fossils, trace 2ndary rexin, increase in chalk



Mud-Co Mud Ck @ 4394'
 0900 hrs 9.22.09
 Vis 49 Wt 9.5
 PV 11 YP 15
 WL 12.9
 Cake 1/32
 PH 10
 CHL 7,000 ppm
 Cal 80
 Sol 8.1
 LCM: 0 #/bbl
 DMC: \$1,996.45
 CMC: \$19,636.35

IC-C1-C5 75
 lighter test



with chert: white greenish frosty dense, overall porosity poor, no shows not

Limestone: white light brown greenish, lithographic to microxin, fossiliferous to sub bioclastic oolitic dolomitic, dense, few samples poor interxn porosity with slight 2ndary rexin, with chert: white reddish opaque frosty, increase in shales green gray.

Limestones as above, with increasing quantities of shale: brick red gray black, dolomitic limes greenish gray micro xin, some samples conglomerate wash gray chalky, with chert white reddish opaque, trace silty sandstones gray green.

Chert: white green black, scattered tripolitic, very dense altered, heavily fossiliferous oolitic broken fragments, 50% samples bleed gas and light brown oil when squeezed under lamp, some samples break easily, scattered poor to fair vuggy interxn porosity on edges, very faint odor, pale yellow gr fl.

Resume drilling @ 2000 hrs 9.23.0

Viola 4501 (-2535)

Chert: white clear to opaque, sharp to weathered tripolitic, slightly fossiliferous (oolites), 50% sam fair to good vuggy porosity, scattered dolomitic cherts sub sucrosic, most samples bleed gas freely and when broken, <10% bleed light brown oil under lamp heat, most show rocks have brown to black fresh stain, very strong odor, bright yellow fl.

Cherts as above with decrease in free oil show and dolomitic content, still very good gas show and fresh oil stain.

Resume drilling @ 1330 hrs 9.24.09

Simpson Shale 4531 (-2565)

4536' - Shale: green silvery black soft waxy micaceous, with abundant chert and cherty dolomite as above, still carrying a good show in chert, 1 peice of sandstone: quartz, very fine to fine grained, poor to fair sorted, sub angular to sub rounded, good even fresh oil stain, friable, dolomitic cement, no f oil or gas noted, faint odor, pale yellow green fl when broken.

4537' Shales and cherts as above, slight increase in sandstones as above.

4538' Same as above, slightly more sand, similar sho

Resume drilling @ 0700 hrs 9.25.09

4542'-43' - Sandstone: quartz, very fine grained to fine grained, well sorted, well rounded, well cemented to very friable, show ranges from barren to 50% saturation light brown stain with small gas bubbles and oil sheen when broken.

Resume Drilling @ 0200 hrs 9.26.09

4560' - Shale: green black soft waxy to blocky dense, slightly micaceous pyritic, with sandstone: quartz, fine grained, poorly sorted, subangular, well cemented to slightly friable, no shows noted. Samples wash red.

4570' - Sandstone: quartz, very fine grained to medium grained, well cemented to friable, very poorly sorted, sub angular to sub rounded, 50% sand dead black stain, very faint odor, no shows free oil or gas, very weak yellow fl, with: shales: green brick red black soft, chert: white, sharp, barren.

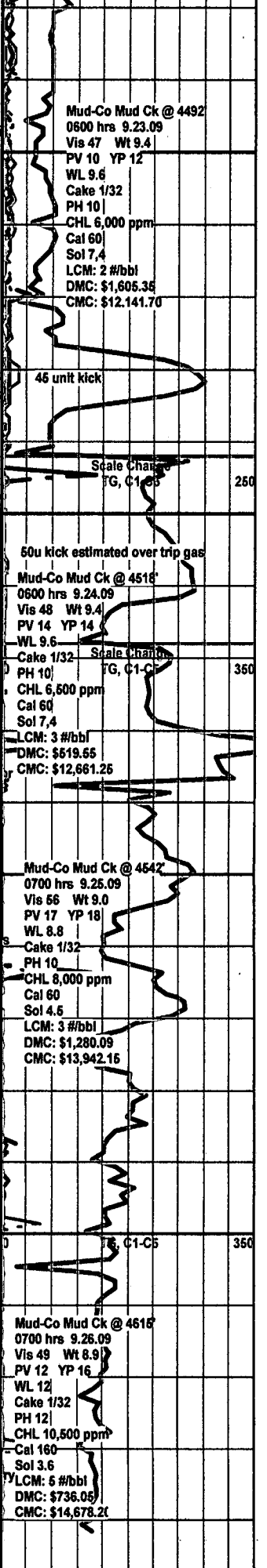
4580' - Sandstones as above, some samples coarse grained, similar show, increase in shale.

Shale: green dark green black, blocky, siltstones green dense, dolomitic, decrease in sand %.

Shale: green black, blocky, increase in siltstones green dolomitic, large pyrite inclusions, sands as above poorly sorted, well cemented, dirtier.

Arbuckle 4631 (-2665)

Dolomite: light cream tan, cryptoxin to microxin, poor to fair rhombic development, sub sucrosic, v poor visible porosity, barren, no shows or odor.



LTD 4642

RTD reached @ 0830 hrs 9.26.0

