

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION *x Amended*
WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

Form ACO-1
September 1999
Form Must Be Typed

Operator: License # 31725
 Name: Shelby Resources, LLC
 Address: 5893 Saddle Creek Trail
 City/State/Zip: Parker, Colorado 80134
 Purchaser: Plains Marketing, L.P.
 * Operator Contact Person: Brian Kartin
 Phone: (785) 623-3290
 Contractor: Name: Murfin Drilling Co.
 License: 30606
 * Wellsite Geologist: Jeff Zoller
 Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 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./SWD
 Plug Back _____ Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

<u>6-06-2005</u>	<u>6-10-2005</u>	<i>x</i> <u>6-27-2005</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 051-25420-0000
 County: Ellis
 app NE NW SE Sec. 28 Twp. 11 S. R. 17 East West
2430 feet from (S) N (circle one) Line of Section
1540 feet from (E) W (circle one) Line of Section
 Footages Calculated from Nearest Outside Section Corner:
 (circle one) NE (SE) NW SW
 Lease Name: Bemis Shutts South Unit Well #: 1
 Field Name: Bemis Shutts
 Producing Formation: Arbuckle
 Elevation: Ground: 1959 Kelly Bushing: 1964
 Total Depth: 3540 Plug Back Total Depth: 3515
 Amount of Surface Pipe Set and Cemented at 220 Feet
 Multiple Stage Cementing Collar Used? Yes No
 If yes, show depth set 1212 Feet
 If Alternate II completion, cement circulated from 1212
 feet depth to Surface w/ 250 sx cmt.
Drilling Fluid Management Plan *Ait II NCR*
 (Data must be collected from the Reserve Pit) *10-2-08*
x Chloride content 3400 ppm *x* Fluid volume 400 bbls
x Dewatering method used Evaporation
 Location of fluid disposal if hauled offsite: _____
 Operator Name: _____
 Lease Name: _____ License No.: _____
 Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
 County: _____ Docket No.: _____

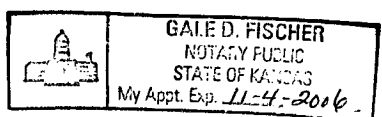
INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side 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: Brian Kartin
 Title: Operations Manager Date: 10-26-2005
 Subscribed and sworn to before me this 26 day of October,
 2005.
 Notary Public: Gale D. Fischer
 Date Commission Expires: 11-4-2006

KCC Office Use ONLY

NO Letter of Confidentiality Received
 If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution



**RECEIVED
OCT 31 2005
KCC WICHITA**

Operator Name: Shelby Resources, LLC Lease Name: Bemis Shutts South Unit Well #: 1
 Sec. 28 Twp. 11 S. R. 17 East West County: Ellis

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 type="checkbox"/> Yes <input checked="" 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 <i>(Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron, Micro, and Dual Induction Logs	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input 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>Anhydrite</td> <td>1183</td> <td>+ 781</td> </tr> <tr> <td>Topeka</td> <td>2898</td> <td>- 934</td> </tr> <tr> <td>Lansing Kansas City</td> <td>3185</td> <td>-1221</td> </tr> <tr> <td>Base Kansas City</td> <td>3422</td> <td>-1458</td> </tr> <tr> <td>Arbuckle</td> <td>3461</td> <td>-1497</td> </tr> </table>	Name	Top	Datum	Anhydrite	1183	+ 781	Topeka	2898	- 934	Lansing Kansas City	3185	-1221	Base Kansas City	3422	-1458	Arbuckle	3461	-1497
Name	Top	Datum																	
Anhydrite	1183	+ 781																	
Topeka	2898	- 934																	
Lansing Kansas City	3185	-1221																	
Base Kansas City	3422	-1458																	
Arbuckle	3461	-1497																	

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 Pipe	12-1/4"	8-5/8"	20#	*220'	Common	150	3% CC, 2% Gel
Production String	7-7/8"	5-1/2"	14#	*3539'	ASC	*175	2% Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose: <input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
	000-1212	60/40 poz	250	6% Gel, 1/4# flo

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 SPF	3464-68'	150 gal. 15% Mud Acid	

TUBING RECORD	Size 2-7/8"	Set At 3506'	Packer At None	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 7-13-2005		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	Oil Bbls. 22	Gas Mcf	Water Bbls. 220	Gas-Oil Ratio Gravity 33.8

Disposition of Gas **METHOD OF COMPLETION** Production Interval

Vented Sold Used on Lease Open Hole Perf. Dually Comp. Commingled
(If vented, Submit ACO-18.) Other (Specify) _____

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ALLIED CEMENTING CO., INC.

16670

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

SERVICE POINT:

Russell

DATE <u>10-16-05</u>	SEC.	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
<u>Demis Smith</u> LEASE <u>South Unit</u>	WELL # <u>1</u>	LOCATION <u>Toulon Rd N to open range</u>			<u>7:30PM</u>	<u>8:45PM</u>	<u>9:00PM</u>
COUNTY <u>Ellis</u>		STATE <u>Kansas</u>		OLD OR NEW (Circle one) <u>NEW</u> <u>1/2 E 2N 1/2 E into</u>			

CONTRACTOR Martin Drilling Rig #8

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 221'

CASING SIZE 8 3/8" DEPTH 220'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13 Bbl

OWNER

CEMENT

AMOUNT ORDERED 150 sks Com KCC 2264

COMMON	<u>150</u>	@	<u>8⁷⁰</u>	<u>1305⁰⁰</u>
POZMIX		@		
GEL	<u>3</u>	@	<u>14⁰⁰</u>	<u>42⁰⁰</u>
CHLORIDE	<u>5</u>	@	<u>38⁰⁰</u>	<u>190⁰⁰</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>158</u>	@	<u>1⁶⁰</u>	<u>252⁰⁰</u>
MILEAGE	<u>6 1/2 sk / more</u>			<u>331⁰⁰</u>
TOTAL				<u>2121⁰⁰</u>

EQUIPMENT

PUMP TRUCK CEMENTER Steve

345 HELPER Craig

BULK TRUCK

396 DRIVER Bary

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

Thank You

CHARGE TO: Shelby Resources

STREET

CITY STATE ZIP

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>670⁰⁰</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>35</u>	@	<u>5⁰⁰</u>	<u>175⁰⁰</u>
		@		
		@		
		@		

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PLUG & FLOAT EQUIPMENT

TOTAL 845⁰⁰

MANIFOLD		@		
<u>8 3/8</u>	<u>wood</u>	@		<u>55⁰⁰</u>
		@		
		@		
		@		

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

ALLIED CEMENTING CO., INC.

21512

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

SERVICE POINT: Russell

DATE <u>6-10-06</u>	SEC <u>28</u>	TWP <u>11</u>	RANGE <u>17</u>	CALLED OUT <u>noon</u>	ON LOCATION <u>2:45 PM</u>	JOB START	JOB FINISH <u>6:30</u>
Bemis Schutts LEASE, South Unit		WELL # <u>1</u>	LOCATION <u>Catherine 1W10N</u>		COUNTY <u>Ellis</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>NEW</u>							

CONTRACTOR MURPHY #8
 TYPE OF JOB Prod Csg
 HOLE SIZE 78 T.D. 3540
 CASING SIZE 5 1/2 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 17
 PERFS.
 DISPLACEMENT 86 bbls

OWNER Wait on bulk truck

CEMENT AMOUNT ORDERED
175 mbv ASC 2% bcl

EQUIPMENT

PUMP TRUCK CEMENTER Bill
 # 386 HELPER CRAIG
 BULK TRUCK
 # DRIVER Keith
 BULK TRUCK
 # DRIVER

COMMON	@		
POZMIX	@		
GEL	3 @	14 ⁰⁰	42 ⁰⁰
CHLORIDE	@		
ASC	175 @	10 ⁷⁵	1881 ²⁵
	@		
	@		
	@		
	@		
	@		
	@		
	@		
HANDLING	178 @	1 ⁶⁰	284 ⁰⁰
MILEAGE	69/SK/MILE		373 ⁰⁰
TOTAL			2581 ⁰⁰

REMARKS:

pipe set c 3540
 17.32
 Insert c 3523
 pump 50 gal flush followed 150 gal asc
 pump plus 486 bbls of water
 Lead plus c 1200
 float did hold
 15 min RH
 12 min mt.

CHARGE TO: Shelby Res.
 STREET P.O. Box 1213
 CITY Hays STATE Ks ZIP 67601

P.C. # 53 1169

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			1320 ⁰⁰
EXTRA FOOTAGE	@		
MILEAGE	35 @	5 ⁰⁰	175 ⁰⁰
MANIFOLD	@		
<u>1-1/2" float</u>	@		
	@		

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TOTAL 1495⁰⁰

KCC WICHITA

PLUG & FLOAT EQUIPMENT

5/2 TRP			60 ⁰⁰
4 Centrifuges	@	50 ⁰⁰	200 ⁰⁰
41-BASKETS	@	140 ⁰⁰	560 ⁰⁰
1-Guide shoe	@		160 ⁰⁰
1-Tool joint	@		235 ⁰⁰

ALLIED CEMENTING CO., INC.

21528

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

SERVICE POINT:
Russell

DATE <u>6/27/05</u>	SEC. <u>2E</u>	TWP. <u>11</u>	RANGE <u>17</u>	CALLED OUT <u>9:00 am</u>	ON LOCATION <u>11:00 am</u>	JOB START <u>12:15 pm</u>	JOB FINISH <u>6:30 pm</u>
LEASE <u>Bem's Shuts. Unit</u>		WELL # <u>1</u>	LOCATION <u>Toulon 12 N 1/2 E</u>		COUNTY <u>Ellis</u>	STATE <u>Ks.</u>	
OLD OR NEW (Circle one) <u>OLD</u>			<u>2 N E into</u>				

CONTRACTOR Gaschler Well Service

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH _____

TUBING SIZE 2 7/8 DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 12 1/2

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT 6 bbl

EQUIPMENT

PUMP TRUCK CEMENTER Shane

366 HELPER Alan

BULK TRUCK

396 DRIVER Fred

BULK TRUCK

_____ DRIVER _____

REMARKS:

BP 2500 test tool @ 1000 psi
held Port Circulation mixed
50 bbl of cement 250 stcs
closed Port Collar held 1000 psi
washed around wanted to
get on plug

CHARGE TO: Shelby Resources LLC.

STREET _____

CITY _____ STATE _____ ZIP _____

OWNER _____

CEMENT Used 250 stcs

AMOUNT ORDERED 300.60/40 6.9.6el

1/4 # F10

COMMON	<u>150</u>	@	<u>8.70</u>	<u>1305.00</u>
POZMIX	<u>100</u>	@	<u>4.70</u>	<u>470.00</u>
GEL	<u>13</u>	@	<u>14.00</u>	<u>182.00</u>
CHLORIDE		@		
ASC		@		
<u>Floccul</u>	<u>63#</u>	@	<u>1.70</u>	<u>107.10</u>
HANDLING	<u>315</u>	@	<u>1.60</u>	<u>504.00</u>
MILEAGE	<u>64/54 mile</u>			<u>567.00</u>
TOTAL				<u>3155.10</u>

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>725.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>30</u>	@	<u>5.00</u>	<u>150.00</u>
MANIFOLD		@		

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TOTAL 9.35.00

PLUG & FLOAT EQUIPMENT



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

Well Name: #1 BEMIS SHUTTS SOUTH UNIT
Location: Section 28 - 11S - 17W Ellis Co, KS
Licence Number: API # 15-051-25420-0000
Spud Date: June 6, 2005
Surface Coordinates: 2430' FSL & 1540' FEL
Region: Bemis Shutts Field
Drilling Completed: June 9, 2005

Bottom Hole Coordinates:

Ground Elevation (ft): 1959' K.B. Elevation (ft): 1964'
Logged Interval (ft): 2800' To: 3540' RTD Total Depth (ft): 3540' RTD
Formation: Arbuckle
Type of Drilling Fluid: Chemical Gel/Polymer Fresh Water -Based

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

OPERATOR

Company: Shelby Resources, LLC
Address: 5893 Saddle Crk Dr.
Parker, CO 80134

GEOLOGIST

Name: Jeffrey R. Zoller
Company: Max-Henry Operating, LLC
Address: P. O. Box 30
Hoisington, KS 67544
Cel: 620.786.0807
O: 620.653.2464 H: 620.653.7397
E-Mail: jrz@earthlink.net

REMARKS

After review of the Open Hole Logs and Geological Log, it was determined the #1 Bemis Shutts South Unit well to be capable of producing commercial quantities of oil from the Simpson SS & Arbuckle. For the aforementioned reasons 5-1/2" Production Casing was run and cemented on June 10, 2005.

The RTD was 3540' and the LTD was 3538'. The formation tops on the Open Hole Logs were ~2' Higher/Shallow to the sample tops. The Gamma Ray data, shown below, was imported from the Open Hole Log DATA and was adjusted 2' to reflect the aforementioned.

The samples will be deposited at and available for review at the KGS Sample Library located in Wichita, KS.

Respectfully,
Jeffrey R. Zoller

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ACCESSORIES

LITHOLOGY

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

- pipesymbol
- unknown lith
- Red shale

FOSSIL

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

MINERAL

- Silty
- Sand
- Dol
- Chlorite
- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtft
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymtn
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt

- Sandy
- Silt
- Sil
- Sulphur
- Tuff

STRINGER

- Sh
- Sandylms
- Lms
- Gryslt
- Grysh
- Dol
- Clystn
- Carbsh
- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky

- Crylxn
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OIL SHOW

- Gas show
- Even
- Spotted
- Ques
- Dead

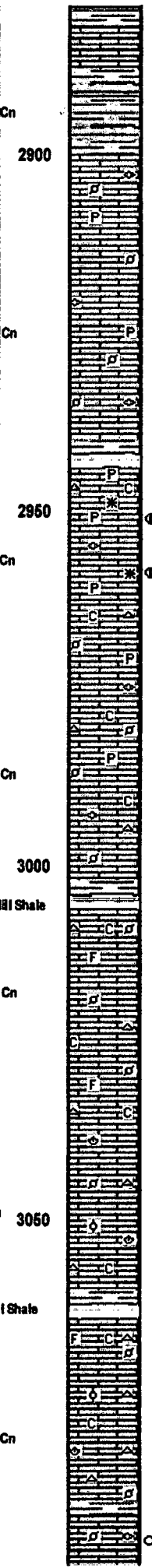
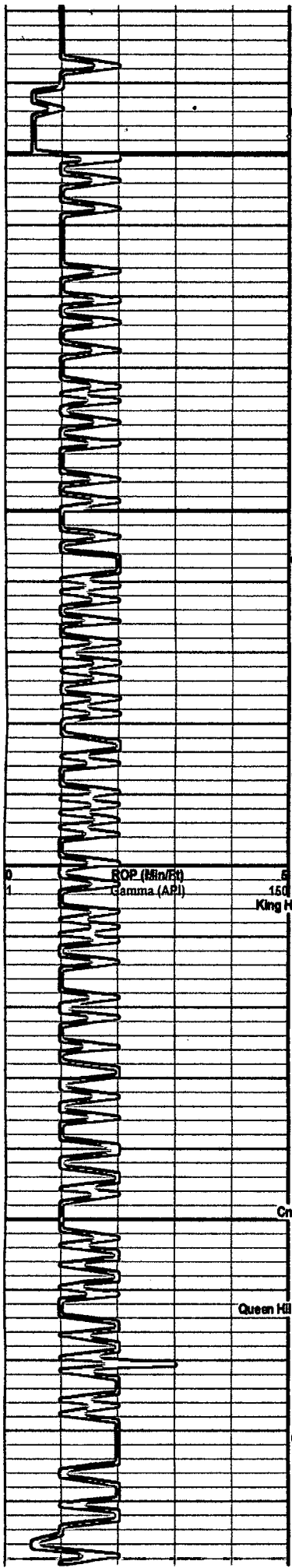
INTERVAL

- Dst
- Core
- Dst

EVENT

- Rft
- Sidewall

Curve Track 1 ROP (Min/Ft) Gamma (API)		Depth	Lithology	Geological Descriptions	Engineering Data
		<p>0</p> <p>150</p> <p>2850</p>	<p>5</p> <p>Connection = Cn 5</p> <p>Cn</p>	<p>Shelby Resources, LLC #1 Bemis Shutts South Unit 2430' FSL & 1540' FEL Sec. 29 - 11s - 17w Ellis Co., KS</p> <p>Drilling Company: Murfin Drilling Company, Inc. Rig #8 785-443-1631 Tool Pusher: Larry Pickner Daylights: Kirby Strutt Evening: Phil Wederski Morning: James Hale</p> <p>Geologist, Jeffrey R. Zoller on location @ 8:00 PM 6/8/05 @ 2771'</p> <p>Started 1' Drill Time @ 2800' and Samples @ 2900'</p>	<p>8-5/8" Surface Casing set @ 220' KB. Cemented w/ 160 sx. Plug Down @ 9:00 PM 6/6/05 by Allied. Drilled Plug @ 5:00 AM 6/7/05.</p> <p>DEV: 1/2" @ 220' 3/4" @ 1898'</p> <p>Mud: Morgan Mud Engr: Dave Lines</p> <p>Displace Mud System @ 2831'</p> <p>Bit #1 7-7/8" In @ 220' HTC GX20C SN5075666 WOB 37M RPM 80 NAT K-380 5-1/2" x 14" PP 650# SPM 64</p>



INTERBEDDED Shale: dark gray-silvery gray-green-rust-brick red -olive green-yellow rounded soft flakey blocky splintery waxy dense sub fissile and
Limestone: cream-tan-light gray cryptocrystalline fossiliferous pelletal no visible poroliths altered & trace Silty Sandstone

Topeka 2900 -936

Morgan Ck @ 2907
 23:25 6/8/05
 Vis 52 WT 8.6
 PV 17 YP 17
 WL 7.2
 Cake 1/32
 PH 11.5
 CHL 2,600 ppm
 Sol 2.15
 LCM: 1/2 ppb
 CMC: \$4,124.00
 DMC: \$4,578.00

Limestone: light gray-gray-brown-light brown pelletal & fossiliferous fusulinids/fusulinid frags no visible porosity no fluorescence no odor no show trace pyrite

Limestone: cream-opaque-light gray crypto-microcrystalline large calcite crystals secondary recrystallization sub fossiliferous fusulinid frags scattered poor pinpoint porosity with light brown spotted stain dull golden-golden even fluorescence poor-fair odor very poor-poor show of live dark brown oil abundant pyrite trace Chert: cream slightly chalky

Limestone: light gray-gray-light brown-cream pelletal & fossiliferous trace fusulinid frags scattered poor pinpoint porosity trace light brown to spotty stain very faint odor very poor show brown live oil trace pyrite slightly chalky trace Chert: cream-light brown-light gray

trace Shale: black carbonaceous & silvery gray-gray waxy blocky splintery sub fissile

Limestone: tan-light brown-light gray-gray micro-cryptocrystalline pelletal sub fossiliferous nil-trace very poor pinpoint porosity no fluorescence no odor no show trace Chert: cream slightly chalky

Limestone: cream-tan-light brown-light gray crypto-microcrystalline sub pelletal sub oolitic sub fossiliferous trace brachiopod frags scattered very poor-poor pinpoint porosity questionable light brown spotty stain no odor no show no fluorescence slightly chalky trace Chert: light tan-cream

trace Shale: black carbonaceous & silvery gray-gray-green waxy blocky splintery sub fissile

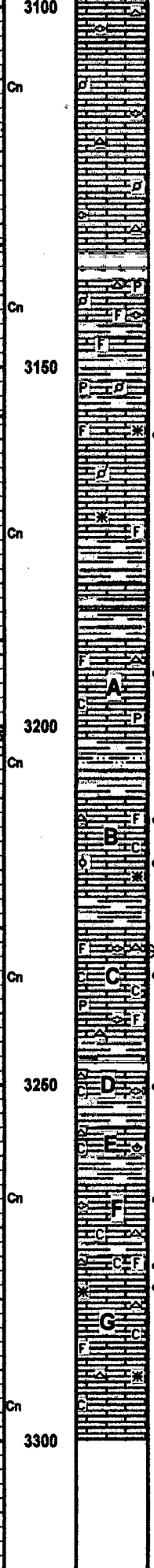
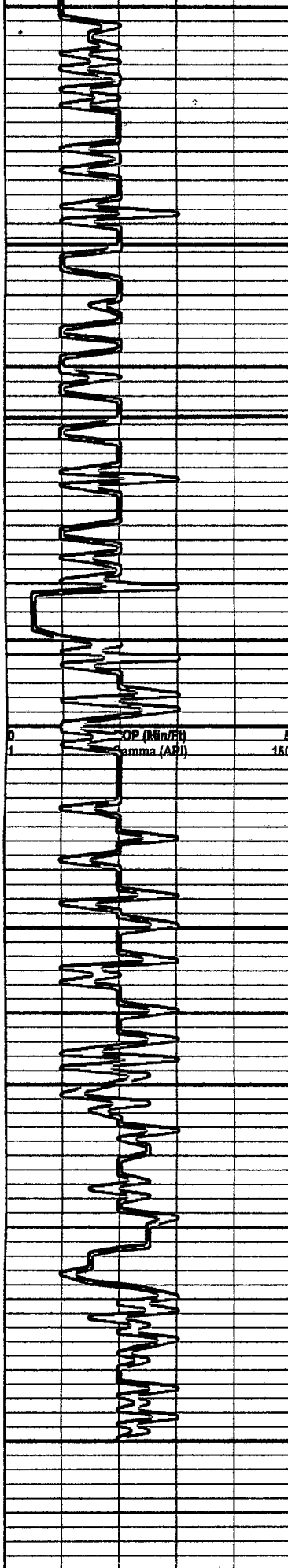
Limestone: cream-tan-trace light gray micro-cryptocrystalline nondescript sub lithographic to lithographic trace sub fossiliferous trace brachiopod frags sub pelletal sub oolitic no visible porosity no fluorescence slightly chalky abundant Chert: cream

trace Shale: dark gray-green-silvery gray waxy dense splintery sub fissile

Limestone: tan-light gray crypto-microcrystalline sub fossiliferous altered fusulinid frags sub pelletal trace poor pinpoint porosity questionable stain no odor no show

ROP (Min/Rt)
 Gamma (API)
 King Hill Shale

Queen Hill Shale



trace Chert: cream-tan

Limestone: tan-light gray-light brown micro-cryptocrystalline sub fossiliferous altered fusulinid frags pectetal in part scattered very poor pinpoint porosity trace Chert: light brown-tan

Heebner 3133 -1169

trace Shale: black carbonaceous

Limestone: cream-tan-gray micro-cryptocrystalline sub fossiliferous fusulinid frags sub pectetal no visible porosity trace Chert: cream trace pyrite

INTERBEDDED Shale: dark gray-silvery gray-green blocky splintery waxy fissile and Limestone as previously described above

Toronto 3157 -1193

Limestone: cream-tan-light gray micro-cryptocrystalline nondescript sub fossiliferous sub pectetal trace calcite crystals secondary recrystallization trace very poor pinpoint porosity with light brown spotty stain trace light brown filmy & live oil no odor no fluorescence very poor show free oil slightly chalky

INTERBEDDED Shale: dark gray-gray green-silvery gray-green-rust-brick red rounded soft blocky splintery waxy fissile & Limestone: cream-tan-light gray micro-cryptocrystalline sub fossiliferous sub pectetal sub oolitic trace poor pinpoint & interoolitic porosity no visible stain no odor no show slightly chalky trace pyrite & trace Chert: white-cream

Lansing 3188 -1224

Mud @ 3170' Wt 8.8 Vs 50 WL 8.8

6/9/2005 7:00 AM 3190'

Limestone: cream-tan-trace light gray crypto-microcrystalline sub fossiliferous-altered fossiliferous hash sub lithographic-rhographic nil-trace very poor pinpoint porosity trace questionable light brown spotty stain even dull yellow fluorescence no odor trace dark brown free oil chalky trace Chert: cream-white trace pyrite

Shale: brown-green-gray-brick red waxy splintery fissile trace silty

Limestone: cream-tan crypto-microcrystalline sub fossiliferous- fossiliferous hash altered sub oolitic trace calcite crystals secondary recrystallization trace very poor interofossiliferous & oolitic porosity with light brown wormy stain even dull yellow fluorescence very poor-poor odor trace very poor show brown free oil chalky abundant Chert: cream-white sub oolitic

Lansing 'C' Zone 3226 -1262

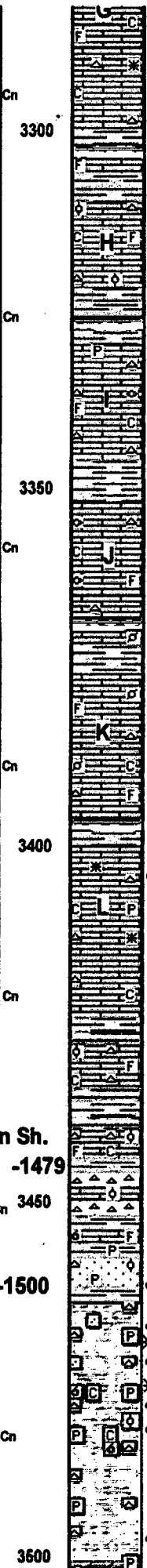
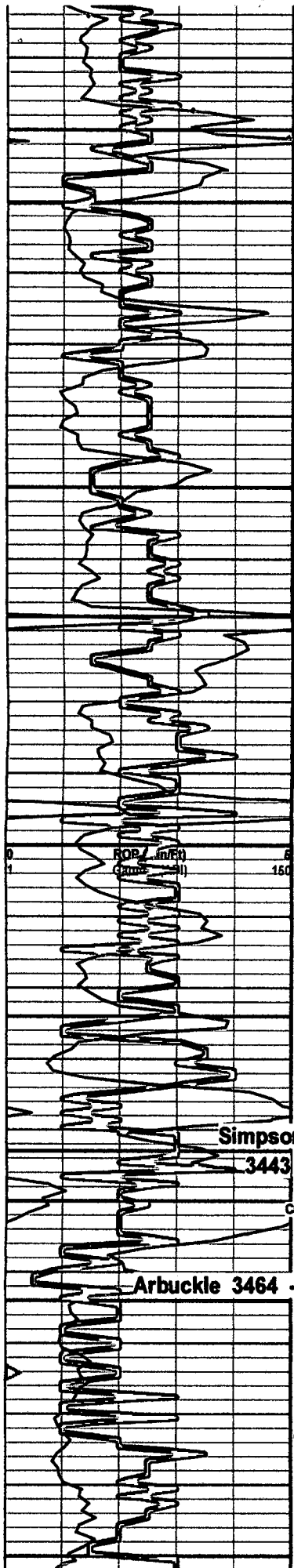
Limestone: cream-tan-trace light brown crypto-microcrystalline fossiliferous-fossiliferous hash altered scattered poor pinpoint & interofossiliferous porosity even-spotty light brown saturated stain even bright white-yellow fluorescence fair-good odor porosity bleeding gas & very light brown oil fair show of light brown gassy oil chalky trace pyrite & Chert: white-cream

Shale: trace black carbonaceous & silvery gray-gray-green rounded soft waxy splintery fissile

Lansing D - F Zones: cream-tan fossiliferous-fossiliferous hash trace brachiopod & fusulinid & crinoids frags scattered poor interofossiliferous porosity would like wormy stain faint odor very poor-poor show of light brown oil chalky trace Chert: light gray-white-cream with interbedded shale: silvery gray-gray-gray green-green-brick red and waxy splintery fissile

Limestone: white-cream-tan micro-crypto crystalline & fossiliferous- fossiliferous hash altered trace calcite crystals secondary recrystallization scattered trace very poor-poor interofossiliferous, crystalline, pinpoint & fracture porosity with wormy-spotty brown saturated stain dull golden fluorescence fair-good odor poor show of lives brown oil very chalky abundant Chert: fleshy tan-tan-cream- orange speckled white-white-some opaque

Mud @ 3280' Wt 8.8 Vs 48



wormy-spotted brown saturated stain dull golden fluorescence fair-good odor poor show of live brown oil very chalky abundant Chert: fleshy tan-tan-cream- orange speckled white-white-some opaque

Shale: trace black carbonaceous & silvery gray-gray-green rounded soft waxy splintery fissile

Lansing 'H' Zone 3310 -1346

Limestone: cream-tan predominantly micro-cryptocrystalline nondescript sublithographic to lithographic trace oolitic fossiliferous -fossiliferous hash with poor interoolitic & fossiliferous porosity wormy saturated brown stain of very faint odor poor show of dark brown oil dull yellow fluorescence slightly chalky trace Chert: tan-cream-white

Shale: trace black carbonaceous & silvery gray-gray-green rounded soft waxy splintery fissile blocky dense

Limestone: tan micro-cryptocrystalline fossiliferous fusulinid frags scattered very poor pinpoint & interfossiliferous porosity with brown-dead-gilsonitic wormy stain spotty yellow fluorescence no odor no show free oil chalky abundant Chert: white-opaque-orange trace pyrite

Shale: gray-gray green-green-brick red rounded soft waxy splintery fissile in part

Limestone: tan-light brown-cream micro-cryptocrystalline trace fossiliferous fusulinid frags trace very poor interfossiliferous porosity with brown spotty-wormy stain no odor no show chalky in part trace Chert: brown-amber-opaque

Stark Shale 3368 -1404

Shale: trace black carbonaceous & silvery gray-gray-green rounded soft waxy splintery fissile

Limestone: tan-light brown-trace light gray & light green cryptocrystalline nondescript lithographic trace fossiliferous & pelletal no visible porosity no fluorescence slightly chalky trace Chert: tan-light gray

Shale: trace black carbonaceous & silvery gray-gray-green rounded soft waxy blocky splintery fissile

Limestone: tan-fleshy tan crypto-microcrystalline lithographic no visible porosity & trace light brown-white microcrystalline recrystallized trace calcite crystals secondary recrystallization with poor pinpoint porosity wormy brown stain no fluorescence faint odor bleeding dark brown oil very poor show free oil slightly chalky trace Chert: amber-opaque-light gray

BKC 3424 -1460

SAMPLES WASH RED Shale: reddish brown-brown rounded soft waxy & gray-silvery gray-purple-maroon waxy splintery fissile

INTERBEDDED Limestone: cream-tan-yellow-light brown-light gray-trace light green micro-cryptocrystalline nondescript fossiliferous and oolitic pelletal in part trace very poor interfossiliferous porosity scattered stain scattered shows chalky, Chert: white-light gray-tan-yellow-white and Shale as described above

trace Shale: turquoise waxy splintery fissile soft & dense

CONGLOMERATE Weathered/Reworked/Vary Colored

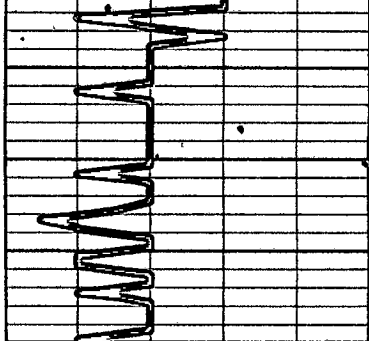
Limestone: cream-tan-light brown-light gray-yellow-light green-rose micro-cryptocrystalline fossiliferous and oolitic oomoldic trace calcite crystals secondary recrystallization trace porosity with stain & bleeding oil trace pyrite, Chert: yellow-light green-light gray-opaque and Shale: turquoise light green-yellow-gray waxy splintery fissile

trace Sandstone: light brown-opaque with medium clear-opaque rounded-sub rounded quartz grains well sorted friable-poorly cemented fair intergranular porosity calcareous saturated brown stain bleeding oil bright white-yellow fluorescence pyrite inclusions

3464-3474 Dolomite: tan-light brown-cream-trace pink crypto-micro -very fine crystalline sucrosic in part & trace fine crystalline rhombic scattered poor pinpoint, intercrystalline & vuggy porosity with spotty & even brown saturated stain even bright white-yellow fluorescence bleeding dark brown oil slightly gassy strong odor excellent show of live dark brown oil trace Chert: orange-white-opaque & trace pyrite

3474-3485 Dolomite: tan-light brown-yellowish tan-trace pink crypto-micro-very fine crystalline oomoldic & oolitic altered trace sandy fair-good interoolmoldic, crystalline & vuggy porosity spotty & even saturated light brown stain with even white-yellow fluorescence porosity bleeding gas and very light brown-golden oil strong odor good show of live light brown-golden oil slightly chalky trace Chert: white-cream-sub opaque abundant pyrite

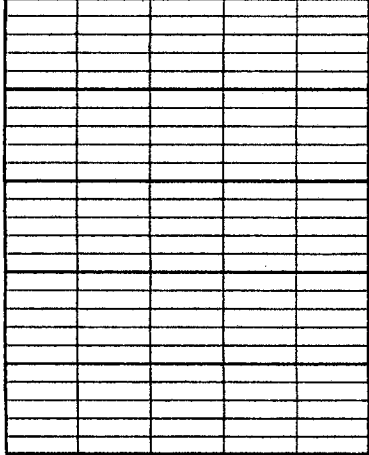
3486-3496 Dolomite: tan-yellowish tan-pinkish tan-brown crypto-microcrystalline sublithographic to lithographic no visible porosity abundant Chert & pyrite



Cn

TD'd @ 3540'
9:45 PM 6/9/05

3550

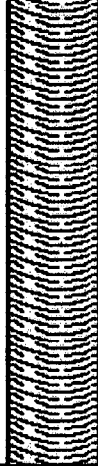


3500



3540 RTD

3538 LTD



3486-3500 Dolomite: tan-yellowish tan-fleshy tan-cream micro-very fine crystalline submicroscopic & fine-medium crystalline rhombic slightly altered scattered poor-fair intracrystalline & vuggy porosity good odor even & spotty saturated light brown stain even yellow-dull yellow fluorescence trace porosity bleeding gas & light brown oil fair-good show of slightly gassy dark brown oil abundant Chert: white-sub opaque and abundant pyrite

3500-3507 Dolomite: tan-light brown-cream crypto-microcrystalline submicroscopic sub lithographic nil-very poor-trace poor pinpoint porosity scattered even saturated light brown stain porosity bleeding brown oil slightly gassy even trace yellow -predominantly dull yellow fluorescence good odor good show of free oil

3508-3520 Dolomite: as previously described above becoming brown sub fossiliferous/sub oomoldic altered recrystallized & trace cream-tan fine-medium crystalline rhombic trace sandy scattered poor-fair intercrystalline & trace vuggy porosity even light brown & brown saturated stain spotty yellow fluorescence good odor fair-good show of dark brown free oil abundant Chert: white-sub opaque-sub oolitic-tan slightly cherty trace pyrite

3520-3540 Dolomite: cream-tan-light brown-fleshy tan-pinkish tan crypto-microcrystalline sub lithographic fine crystalline submicroscopic-submicroscopic & sub oomoldic scattered poor-fair intercrystalline & vuggy porosity good odor scattered even light brown & trace gilsonitic stain scattered even yellow fluorescence & white-yellow mineral fluorescence poor-fair show of light brown & dark brown free oil abundant Chert: white-sub opaque-light gray sub oolitic & pyrite

6/10/2005 7:00 AM 3540' RTD
Deviation Survey @ 3540' RTD - 1°

Respectfully Submitted,
Jeffrey R. Zoller