

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1  
October 2008  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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 # 33323  
Name: Petromark Drilling L.L.C.  
Wellsite Geologist: Keith Reavis  
Purchaser: Plains Marketing

Designate Type of Completion:  
 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.: \_\_\_\_\_  
9/29/09 10/05/09 10/23/09  
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 009-25346-0000  
Spot Description: SW/4  
SW NE NE SW Sec. 13 Twp. 18 S. R. 14  East  West  
2200' Feet from  North /  South Line of Section  
2040' Feet from  East /  West Line of Section

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

Lease Name: Mauler Well #: 1-13  
Field Name: Wildcat

Producing Formation: Topeka  
Elevation: Ground: 1899' Kelly Bushing: 1904'  
Total Depth: 3490' Plug Back Total Depth: 3119'  
Amount of Surface Pipe Set and Cemented at: 810 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 ncr 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: L.D. Davis  
Lease Name: Miller A #2 License No.: 6039  
Quarter SE Sec. 4 Twp. 19 S. R. 12  East  West  
County: Barton Docket No.: 150-009-04611-0001

**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: Chris Gottschalk  
Title: Production manager Date: 1/04/10

Subscribed and sworn to before me this 4 day of January  
20 10

Notary Public: Michelle R. Haas

Date Commission Expires: \_\_\_\_\_

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

\* NO DSTs rec'd  
KCC Office Use ONLY

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

Operator Name: Shelby Resources L.L.C./ Captiva Energy L.L.C. Lease Name: Mauler Well #: 1-13  
 Sec. 13 Twp. 18 S. R. 14  East  West County: Barton

**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 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: <b>Dual Induction, Compensated Density Neutron,                  Micro, Sonic and Cement Bond Logs</b>	<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>2830'</td> <td>-926'</td> </tr> <tr> <td>Heebner</td> <td>3075'</td> <td>-1171'</td> </tr> <tr> <td>Lansing</td> <td>3161'</td> <td>-1257'</td> </tr> <tr> <td>Base KC</td> <td>3366'</td> <td>-1462'</td> </tr> <tr> <td>Arbuckle</td> <td>3398'</td> <td>-1494'</td> </tr> </table>	Name	Top	Datum	Topeka	2830'	-926'	Heebner	3075'	-1171'	Lansing	3161'	-1257'	Base KC	3366'	-1462'	Arbuckle	3398'	-1494'
Name	Top	Datum																	
Topeka	2830'	-926'																	
Heebner	3075'	-1171'																	
Lansing	3161'	-1257'																	
Base KC	3366'	-1462'																	
Arbuckle	3398'	-1494'																	

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	12.1/4"	8.5/8"	23#	810'	Common	330	3% ccl, 2% gel
Production	7.7/8"	4.1/2"	10.5#	3154'	60/40 Poz/AA2	25/75	3% ccl, 2% gel

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ADDITIONAL CEMENTING / SQUEEZE RECORD			
Purpose: <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	Depth Top Bottom	Type of Cement <b>JAN 12 2010</b>	# Sacks Used Type and Percent Additives
<b>CONSERVATION DIVISION WICHITA, KS</b>			

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	3022-26'	500 gal 15% INS/ 1250 gal 15% NE w/2% DMO	

TUBING RECORD:	Size: <u>2.3/8"</u>	Set At: <u>3095'</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>9/02/09</u> <u>10/24/09</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. 1	Gas Mcf	Water Bbls. 18	Gas-Oil Ratio	Gravity 28
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DISPOSITION OF GAS: <input checked="" type="checkbox"/> Vent <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>3022-26'</u>
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

*Per completion per 1/26/10. open. m*

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 0072

Date	9-29-09	Sec.	13	Twp.	18	Range	14	County	Barton	State	Ks	On Location		Finish	12:30	
Lease	MAY 122		Well No.	1-13		Location K-96: BOYO B/LK TOP 11 b (WELL)										
Contractor	PETRO MARK					Owner	WEL E DITO									
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.	321		Charge To	SHELBY KES.									
Csg.	2 5/8 24"		Depth	320		Street										
Tbg. Size						City	State									
Drill Pipe						The above was done to satisfaction and supervision of owner agent or contractor.										
Tool																
Cement Left in Csg.	Shoe Joint 40.40					CEMENT										
Press Max.	Minimum					Amount Ordered	330 x Common 2 1/2" 3 1/2" 6"									
Meas Line	Displace 49.6					Common										
Perf.						Poz. Mix										
<b>EQUIPMENT</b>						Gel.										
Pumptrk	5	No.	Cement Helper	TOB		Calcium	RECEIVED KANSAS CORPORATION COMMISSION									
Bulktrk	11	No.	Driver	HEALE		Mills	JAN 12 2010									
Bulktrk	20	No.	Driver	TODD		Salt										
<b>JOB SERVICES &amp; REMARKS</b>						RECEIVED KANSAS CORPORATION COMMISSION CONSERVATION DIVISION WICHITA, KS										
Pumptrk Charge	SURFACE					JAN 12 2010										
Mileage	15					CONSERVATION DIVISION WICHITA, KS										
Footage						Handling										
Total																
Remarks:	Run 20 2 1/2" csg					Mileage	.09 PER EX PER MILE									
						Pump Truck Charge										
						<b>FLOAT EQUIPMENT</b>										
HEV Pump 330 x Common 2 1/2" 3 1/2" 6"						Guide Shoe										
15 7/8" 1.36 11 3						Centralizer										
HEV Down Release Plug						Baskets										
HEV 4 1/2" Bds total						AFU Inserts	3 1/2" 1 BUFFER PLATE 1 TOP RUBBER PLUG									
Plug signs						Rotating Head										
11 Seal on csg 4 1/2"						Squeeze Mainfold										
1000 Circ 1100 JDS																
1000 CMT 10 PFT																
1000-1000-1000																
Signature																
						Tax Discount Total Charge										

# MAX-HENRY

## OPERATING, LLC

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

Well Name: Mauler #1-13  
Location: Sec. 13 - T18S - R14W, Barton County, KS  
Licence Number: API#: 15-009-25346-0000  
Spud Date: September 28, 2009  
Surface Coordinates: 2200' FSL & 2040' FWL (3-D location) □

Region: Wildcat  
Drilling Completed: October 5, 2009

### Bottom Hole Coordinates:

Ground Elevation (ft): 1899'                      K.B. Elevation (ft): 1904'  
Logged Interval (ft): 2800'              To: 3490'              Total Depth (ft): 3490' RTD  
Formation: Arbuckle  
Type of Drilling Fluid: Chemical/Polymer/Gel

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

### OPERATOR

Company: Shelby Resources, LLC  
Address: 445 UNION BLVD.  
Suite 208  
LAKEWOOD, CO. 80228 □

### GEOLOGIST

Name: Keith Reavis, KLG #136  
Company: Max-Henry Operating, LLC  
Address: P. O. Box 30  
Hoisington, KS 67544

### REMARKS

Despite poor recovery on DST #1, electrical log evaluation of the Plattsmouth indicated good potential for commercial production. It was recommended and agreed upon by all parties involved that 4 1/2" production casing be set and cemented @ 3100' and the Plattsmouth be further evaluated through perforations.

The well cuttings were saved, submitted and available for review at the KGS Well Sample Library located in Wichita, KS.

Respectfully submitted,  
Keith Reavis

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CONSERVATION DIVISION  
WICHITA, KS

# SHELBY RESOURCES, LLC

## DAILY DRILLING REPORT

Company: SHELBY RESOURC SHELBY RESOURCES, LLC  
445 UNION BLVD. Suite 208  
LAKEWOOD, CO. 8 LAKEWOOD, CO. 80228

Well: #1-13 MAULER  
Location: 2200' FSL & 2040' FWL  
Sec. 13 - 18S - 14W  
Barton Co., KS

Contact: Gary Krieger 303-887-5085

Field Ops: Chris Gottschalk 785-623-1524

Wellsite Geologist: Keith Reavis  
Cell: (620) 218-3539  
Office: (620) 653-2464

Elevation: 1904' KB 1899' GL  
Field: WILDCAT  
AP#: 15-009-25346-0000  
Surface Casing: 20 jts of 8 5/8" set @ 810.01' KB

Drilling Contractor: Petromark Drilling - Rig #2 620-617-4750 Tool Pusher: David Roach 620-786-4631

DATE	7:00 AM DEPTH	Last 24 Hour Operations
10/1/2009		Geologist on location @ 2320 hrs - 2850 ft, drilling through Topeka
10/2/2009	3024	drilling ahead, King Hill, Queen Hill, Plattsmouth, show and kick, cfs, show warrants DST, short trip, TOH for DST #1, finish DST #1, successful test, resume drilling Heebner, Toronto, Douglas
10/3/2009	3225	drilling ahead through Lansing, shows in A, B and D, warrants DST, TOH for DST #2 run DST #2, successful test, back in hole with bit, drill ahead thru F and G, shows and gas kick warrant DST, TOH for DST #3
10/4/2009	3287	complete DST #3, successful test, TIH w/bit, resume drilling, drill lower LKC, shows and kicks warrant DST, TOH for DST #4, conduct DST #4, successful test, TIH w/bit, resume drilling
10/5/2009	3490	find Arbuckle, does not warrant DST, rathole ahead, TOH for logs, conduct logging operations geologist off location 1500 hrs

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WICHITA, KS

# SHELBY RESOURCES, LLC

## WELL COMPARISON SHEET

WELL #1 MAULER					COMPARISON WELL				COMPARISON WELL			
SRLLC #1-13 MAULER					TEC Springer 42-14				Murphy Oil Co. #1 Behr-Stoss			
2200' FSL & 2040' FWL					1785' FNL & 630' FEL Dry Hole				SW - NE - NE Dry Hole			
Sec. 13 - 18S - 14W					Sec. 14 - 18S - 14W		Structural		Sec. 13 - 18S - 14W		Structural	
1804 KB					1882 KB		Relationship		1942 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite	853	1051	842	1062	822	1060	-9	2				
Stotler	2544	-640	2550	-646	2528	-647	7	1				
Tarkio	2614	-710	2618	-714	2588	-716	6	2				
Howard	2754	-850	2757	-853	2736	-854	4	1				
Topeka	2830	-926	2833	-929	2812	-930	4	1				
King Hill	2924	-1020	2926	-1022	2903	-1021	1	-1				
Queen Hill	2993	-1089	2992	-1088	2968	-1086	-3	-2				
Heebner	3075	-1171	3074	-1170	3052	-1170	-1	0	3119	-1177	6	7
Toronto	3084	-1180	3086	-1182	3061	-1179	-1	-3				
Douglas	3098	-1194	3098	-1194	3075	-1193	-1	-1				
Brown Lime	3153	-1249	3154	-1250	3128	-1246	-3	-4	3200	-1258	9	8
Lansing	3161	-1257	3166	-1262	3136	-1254	-3	-6	3215	-1273	16	11
F zone	3228	-1324	3231	-1327	3202	-1320	-4	-7				
Muncie Creek	3282	-1378	3286	-1382	3261	-1379	1	-3				
Stark shale	3338	-1434	3345	-1441	3316	-1434	0	-7				
Base KC	3366	-1462	3370	-1466	3342	-1460	-2	-6				
Arbuckle	3398	-1494	3398	-1494	3370	-1488	-6	-6	3442	-1500	6	6
Reagan SS												
Pre-Cambrian												
Total Depth	3490	-1586	3491	-1587	3480	-1598	12	11	3462	-1520	-66	-67

COMPARISON WELL				
Smith - Wilson #1				
C - NW - SW Dry Hole				
Sec. 13 - 18 - 14W			Structural	
1891 KB			Relationship	
Formation	Sample	Sub-Sea	Sample	Log
Anhydrite	834	1057	-6	
Stotler				
Tarkio				
Howard				
Topeka				
King Hill				
Queen Hill				
Heebner				
Toronto				
Douglas	3078	-1187	-7	-7
Brown Lime				
Lansing	3165	-1274	17	12
F zone				
Muncie Creek				
Stark shale				
Base KC				
Arbuckle	3415	-1524	30	30
Reagan SS	3550	-1659	na	na
Pre-Cambrian	3573	-1682	na	na
Total Depth	3576	-1685	99	98

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# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16462

DST#: 1

ATTN: KEITH REAVIS

Test Start: 2009.10.02 @ 12:09:00

## GENERAL INFORMATION:

Formation: **PLATTSMOTH**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:30

Time Test Ended: 17:34:00

Test Type: Conventional Bottom Hble (Initial)

Tester: JARED SCHECK

Unit No: 3325-22-GB

Interval: 3018.00 ft (KB) To 3034.00 ft (KB) (TVD)

Total Depth: 3034.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Poor

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524 Inside

Press@RunDepth: 64.78 psia @ 3029.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.02 End Date: 2009.10.02

Last Calib.: 2009.10.02

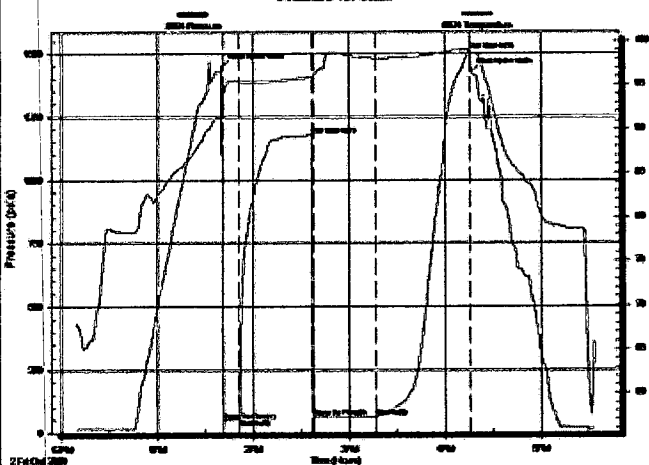
Start Time: 12:09:00 End Time: 17:34:00

Time On Blrm 2009.10.02 @ 13:40:30

Time Off Blrm 2009.10.02 @ 16:18:30

TEST COMMENT: 10/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 2 INCHES IN TO BUCKET IN 10 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 40/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 60/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1447.36	91.58	Initial Hydro-static
1	49.33	94.07	Open To Flow (1)
11	54.06	95.41	Shut-in(1)
56	1179.11	95.92	End Shut-in(1)
58	63.63	96.18	Open To Flow (2)
97	64.78	98.10	Shut-in(2)
155	1512.77	99.04	End Shut-in(2)
156	1425.57	98.60	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD	0.12

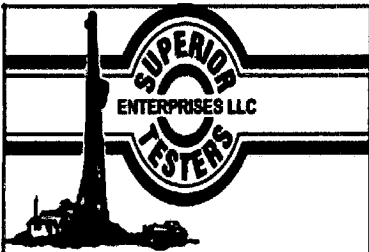
## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)

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# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C  
 PO BOX 1213 HAYS KS 67601  
 ATTN: KETH REAVIS

MAULER # 1-13  
 13-18-14W BARTON  
 Job Ticket: 16463 DST#: 2  
 Test Start: 2009.10.03 @ 09:10:00

## GENERAL INFORMATION:

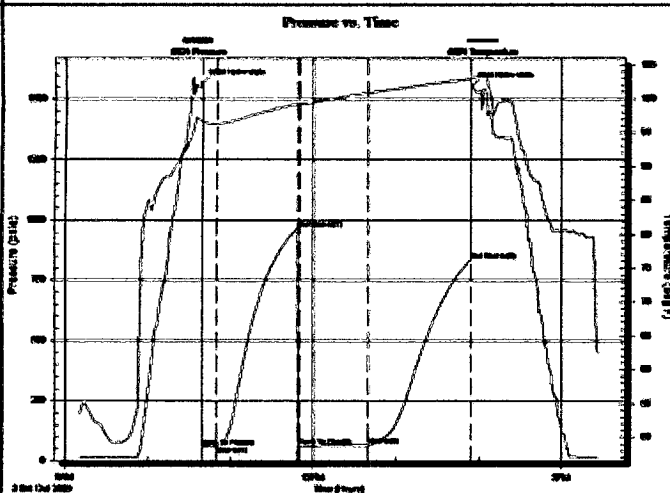
Formation: **LANSING "A -D"**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:39:30 Tester: JARED SCHECK  
 Time Test Ended: 15:28:00 Unit No: 3325-22 -GB  
 Interval: 3156.00 ft (KB) To 3225.00 ft (KB) (TVD) Reference Elevations: 1904.00 ft (KB)  
 Total Depth: 3225.00 ft (KB) (TVD) 1899.00 ft (CF)  
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

## Serial #: 8524

Inside

Press@RunDepth: 65.60 psia @ 3220.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2009.10.03 End Date: 2009.10.03 Last Calib.: 2009.10.03  
 Start Time: 09:10:00 End Time: 15:28:00 Time On Btm: 2009.10.03 @ 10:39:00  
 Time Off Btm: 2009.10.03 @ 13:55:00

TEST COMMENT: 10/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/4 INCH IN 10 MINUTES  
 60/INITIAL SHUT IN: NO BLOW BACK  
 50/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 75/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1565.21	96.69	Initial Hydro-static
1	59.56	96.46	Open To Flow (1)
11	61.49	96.28	Shut-in(1)
70	964.20	99.19	End Shut-in(1)
71	62.20	99.13	Open To Flow (2)
121	65.60	100.87	Shut-in(2)
195	838.05	102.90	End Shut-in(2)
196	1557.09	103.12	Final Hydro-static

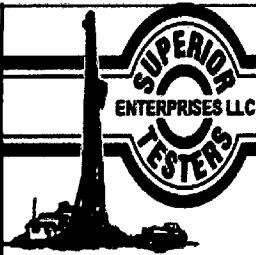
## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

## Gas Rates

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





# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16464

DST#: 3

ATTN: KETH REAVIS

Test Start: 2009.10.03 @ 23:00:00

## GENERAL INFORMATION:

Formation: **LANSING "F-G"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:19:00

Time Test Ended: 02:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3325-22-GB

Interval: **3218.00 ft (KB) To 3259.00 ft (KB) (TVD)**

Total Depth: 3259.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524 Inside

Press@RunDepth: 60.58 psia @ 3254.00 ft (KB)

Start Date: 2009.10.03

End Date: 2009.10.04

Start Time: 23:00:00

End Time: 02:53:00

Capacity: 5000.00 psia

Last Calib.: 2009.10.04

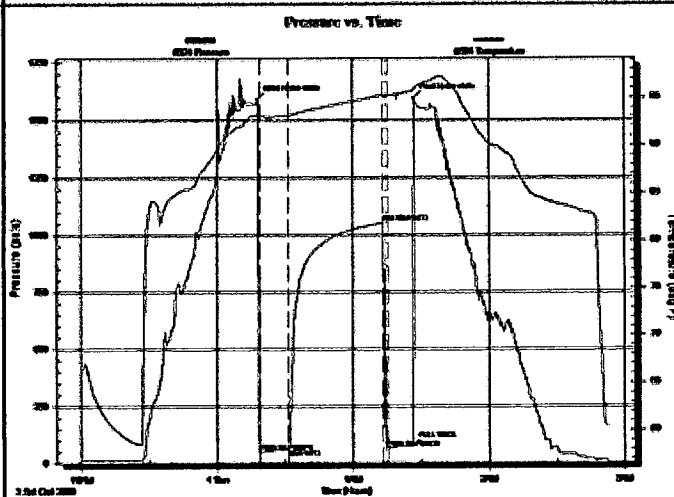
Time On Btm: 2009.10.04 @ 00:18:00

Time Off Btm: 2009.10.04 @ 01:27:00

TEST COMMENT: 10/INITIAL OPEN:VERY WEAK SURGE DID NOT BUILD

45/INITIAL SHUT IN:NO BLOW BACK

10/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 5 MINUTES INTO OPEN WEAK SURGE DIED OFF



## PRESSURE SUMMARY

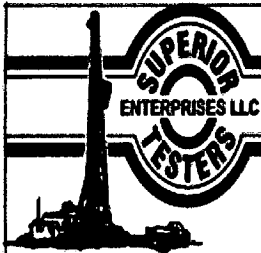
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1589.92	93.23	Initial Hydro-static
1	47.85	93.07	Open To Flow (1)
14	60.58	93.16	Shut-In(1)
56	1051.79	95.27	End Shut-In(1)
57	65.11	95.22	Open To Flow (2)
69	75.83	95.69	PULL TOOL
69	1593.89	96.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD	0.30

## Gas Rates

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



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16465

DST#: 4

ATTN: KETH REAVIS

Test Start: 2009.10.04 @ 14:30:00

## GENERAL INFORMATION:

Formation: **LANSING "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:40:30

Time Test Ended: 19:33:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3325-22-GB

Interval: **3280.00 ft (KB) To 3371.00 ft (KB) (TVD)**

Total Depth: 3371.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GRVCF: 5.00 ft

Serial #: 8524

Inside

Press@RunDepth: 78.23 psia @ 3366.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.04

End Date: 2009.10.04

Last Calib.: 2009.10.04

Start Time: 14:30:00

End Time: 19:33:00

Time On Btm: 2009.10.04 @ 15:39:30

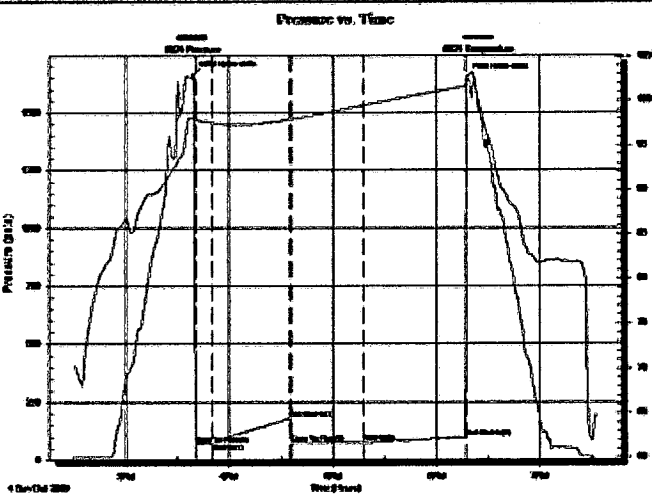
Time Off Btm: 2009.10.04 @ 18:18:00

TEST COMMENT: 10/INITIAL OPEN:WEAK SURGE DID NOT BUILD

45/INITIAL SHUT IN:NO BLOW BACK

45/FINAL OPEN:WEAK SURFACE BLOW BUILT 1/2 STAYED STEADY THROUGHOUT OPEN

60/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1665.68	98.10	Initial Hydro-static
1	70.97	97.86	Open To Flow (1)
11	74.95	97.52	Shut-in(1)
56	179.90	97.89	End Shut-in(1)
57	72.43	97.93	Open To Flow (2)
98	78.23	99.43	Shut-in(2)
158	98.48	101.60	End Shut-in(2)
159	1652.55	102.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	SPOT OIL CUT MUD 1%O 99%M	0.05

## Gas Rates

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

### ROCK TYPES

### LITHOLOGY

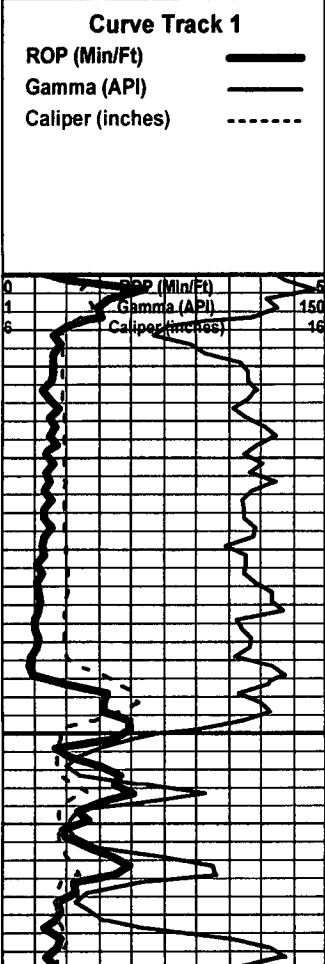
	Anhy
	Bent
	Brec
	Cht
	Clyst
	Coal
	Congl
	Dol
	Gyp
	Igne
	Lmst
	Meta
	Mrlst
	Salt
	Shale
	Shcol
	Shgy
	Sltst
	Ss
	Till
	Sltstn
	Shale
	Sandylms
	Lms
	Gry sh
	Dtd
	Dol
	Carb sh
	pipesymbol

	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
	Chtlt
	Dol
	Feldspar
	Ferrpel
	Ferr
	Glau
	Gyp
	Hvymin
	Kaol
	Marl
	Minxl
	Nodule
	Phos
	Pyr
	Salt
	Sandy
	Silt
	Sil

	Sulphur
	Tuff
	STRINGER
	Red shale
	Sh
	Sandylms
	Lms
	Gryslt
	Grysh
	Dol
	Clystn
	Carbsh
	Anhy
	Arg
	Bent
	Coal
	Dol
	Gyp
	Ls
	Mrst
	Sltstrg
	Ssstrg
	TEXTURE
	Boundst
	Chalky
	Cryxln
	Earthy
	Finexln

	Grainst
	Lithogr
	Microxln
	Mudst
	Packst
	Wackest
	OIL SHOW
	Gas show
	Good
	Fair
	Poor
	Dead
	INTERVAL
	Dst
	Core
	Dst
	Straddle test t
	EVENT
	Rft
	Sidewall
	Dst
	Open hole
	Perforations



Depth

Lithology

Oil Shows

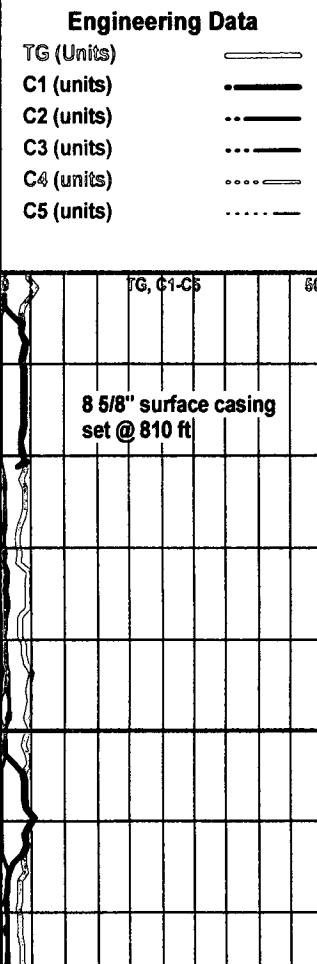
Geological Descriptions

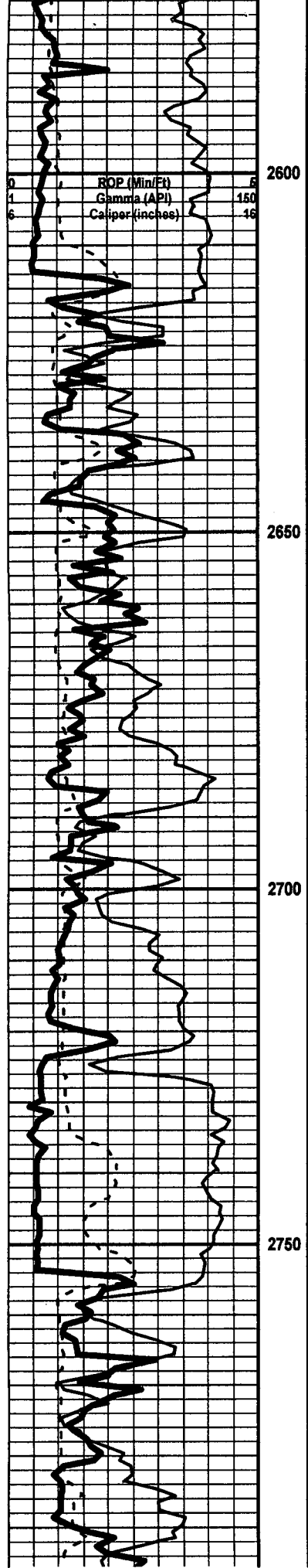
**Shelby Resources, LLC**  
 Mauler 1-13  
 2200' FSL & 2040' FWL  
 Sec. 13 - 18S - 14W  
 Barton Co., KS

Petromark Drilling - Rig #2 620-617-4750 Tool  
 Pusher: David Roach 620-786-463

**Geologist: Keith Reavis**

BlueLab Bloodhound Gas Detector Trailer on location and operational @ 1478 ft. The ROP, TG, C1 (Methane), C2 (Ethane), C3 (Propane) & C4 (N-Butane = C4 Butane + C5 Iso Butane) DATA was downloaded from the Bloodhound. Said DATA was imported and displayed on this Geo Log.





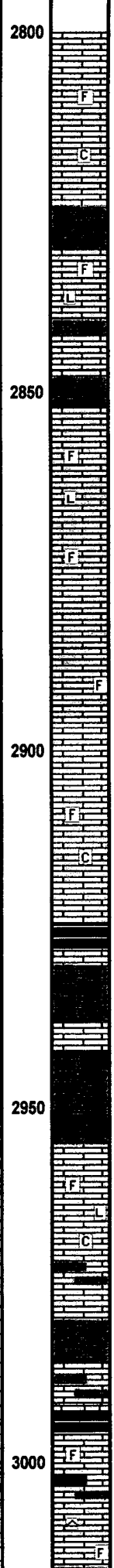
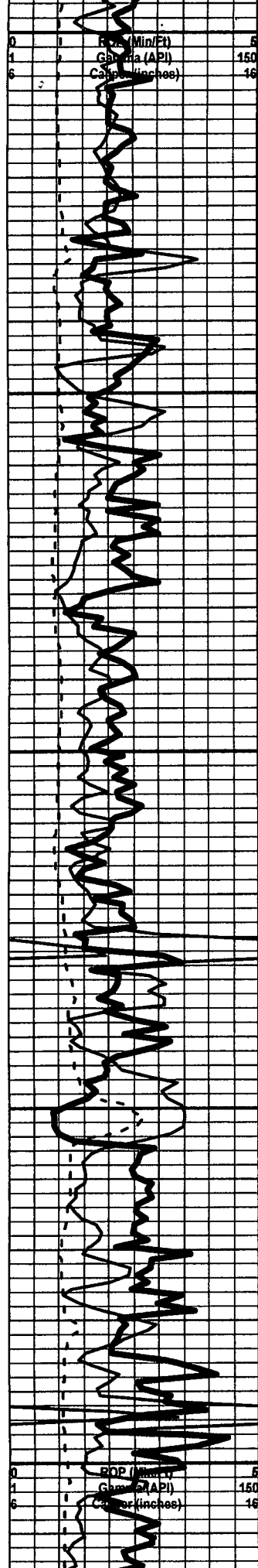
Tarkio 2614 -710

Howard 2754 -850

FG, C1-C5 50

displace mud system @  
2700 ft 10/1/09

begin wet and dry samples @ 2800 ft



limestone, gray to dark gray, some tan, fossiliferous, microcrystalline, chalky, poor visible porosity, no shows

**Topeka 2830 -926**

limestone, cream to light gray fossiliferous, with dark gray micro to cryptocrystalline lithographic, no shows

geologist Keith Reavis on location @ 2850 ft 2320 hrs 10/1/09

limestones, mixed gray to cream, microcrystalline, fossiliferous, some scattered brown to gray lithographic, poor overall visible porosity, no show

mixed limestones as above

limestone, cream to tan, microcrystalline, fossiliferous, chalky, some scattered vugs and interclast porosity, no shows

**King Hill Shale 2924 -1020**

limestone, gray mottled, fossiliferous, chalky, with limestone, white, cryptocrystalline, lithographic, boney texture, dense, no shows

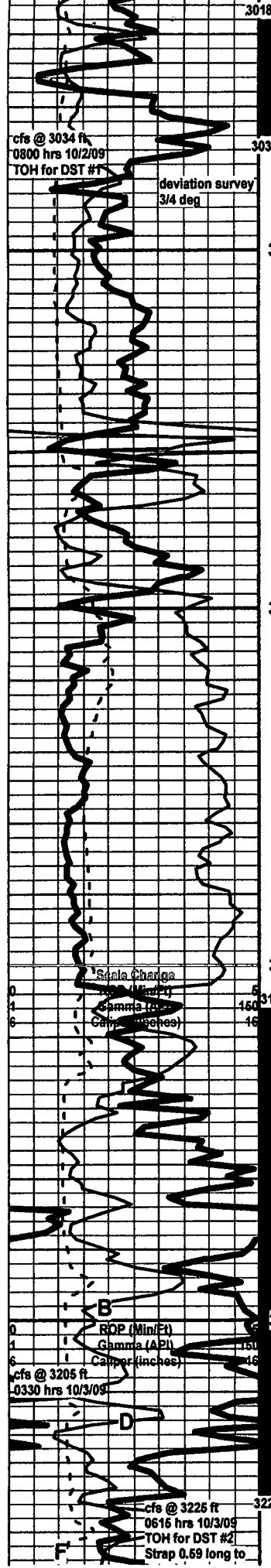
**Queen Hill Shale 2993 -1089**

black carbonaceous shale

limestone, mixed cream to tan and gray mottled, microcrystalline, very fossiliferous, poor visible porosity, some scattered chert, no show

TG, C1-C5 50

TG, C1-C5 50



limestone, cream to gray, oolitic to oomoldic, some good mold and vug porosity, good show of tarry but gassy free oil, streaming in tray, no odor, faint mineral fluorescence, excellent cut fluorescence

limestone, cream, microcrystalline, fossiliferous to lithographic, trace oolitic/oomoldic, chalky, some pyritic, scattered staining, slight show tarry free oil, with: limestone, gray, lithographic to fossiliferous, few scattered vugs, scattered black stain, no oil show, with, dark gray fossiliferous chert, some edge stain, some oil sheen in sample tray, no odor in wet cups - abundant pyrite nodules

as above, increase in chert and pyrite

**Heebner 3075 -1171**

black carbonaceous shale

limestone, white to light gray, cryptocrystalline, mostly lithographic, some slightly grainy, some scattered pinpoint porosity with light golden brown stain, trace gassy free oil on break, no odor, faint green/white fluorescence

**Douglas 3098 -1194**

shale, mixed gray and green, with brick red, mostly silty, some micaceous, some scattered gray sand and pepper siltstones, abundant pyrite nodules

as above

NOTE: CHANGE ROP SCALE

**Brown Lime 3153 -1249**

limestone, tan to light brown, very fossiliferous, dense

**Lansing 3161 -1257**

limestone, cream to white, some tan, cryptocrystalline, chalky, lithographic to slightly fossiliferous, some scattered pinpoint porosity and spotty brown stain, trace free oil droplets, no odor, some fair scattered fluorescence

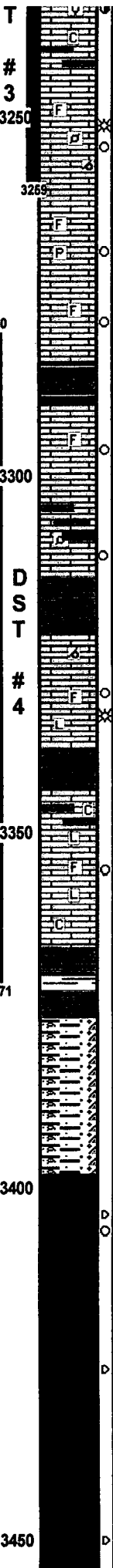
as above, with light gray fossiliferous, limestone, some scattered pinpoint and vuggy porosity, trace edge stain

limestone, gray, fossiliferous, micro to cryptocrystalline, dense, recrystallized clasts, some tripolitic like texture and porosity, trace fractures with scattered edge to slight saturated stain, slowly bleeds some free oil, some fair free oil on break, fleeting odor in 60 min wet cup, fairly even pale green fluorescence - abundant chalk

limestone, light gray to gray, crypto-microcrystalline, mostly fossiliferous, some lithographic, fairly dense, fair even spongy-vuggy texture, some secondary calcite in vugs, bleeding free oil, even saturated stain, faint odor under lamp, pale green fluorescence

limestone, white, chalky oolitic to bioclastic, some fair oomolds, vugs and interclast porosity, secondary calcite in matrix, black wormy stain, gassy, trace free oil in tray, more oil breaks





secondary veins in primary, dark wormy, gassy, trace free oil, more in streaks  
under lamp with time, faint odor, excellent milky white cut fluorescence

limestone, cream to white and tan, mixed fossiliferous to pelletal and sub-oomoidic, chalky to dense, scattered stain, with, dark gray, fossiliferous, dense, some vugs and fractures, stain in fractures and vugs, bleeding some gassy free oil, slight odor, poor fluorescence

limestone, some as above, mostly very chalky light gray to cream fossiliferous, poor overall visible porosity, scattered staining, some dense gray fossiliferous, pyritic, cryptocrystalline, some vugs, slight stain and trace free oil, abundant tan cryptocrystalline - no odor in wet cups

MUNCIE CREEK

limestone, light gray to cream, microcrystalline, fossiliferous, poor visible porosity, scattered black wormy stain, trace heavy free oil droplets, no odor, no fluorescence

shale, red and gray, with mixed fine limestones, some nice specimens of limestone, tan, cryptocrystalline, fossiliferous to pelletal, fair wormy black to brown interclast staining, dense, no show free oil, no odor

limestone, cream to tan and light gray, fossiliferous to sub-oomoidic to lithographic, cryptocrystalline, dense, some fair vugs, with scattered golden brown stain, trace free oil, with limestone, white, very chalky, oolitic to oomoidic, wormy black to dark brown stain, some gassy, trace show tarry free oil, fleeting odor, poor fluorescence

STARK SHALE

limestone, white to light gray, cryptocrystalline, mostly lithographic, some fossiliferous, very chalky trace sub-oomoidic, some scattered black stain, some scattered dark gray fossiliferous, slightly vuggy, very dense, show of tarry clingy black oil, no odor

Base Kansas City 3366 -1462

mixed gray and red shales

conglomerate, mixed cherts and limestones, lots of red shale, samples wash red, lots of loose sand grains

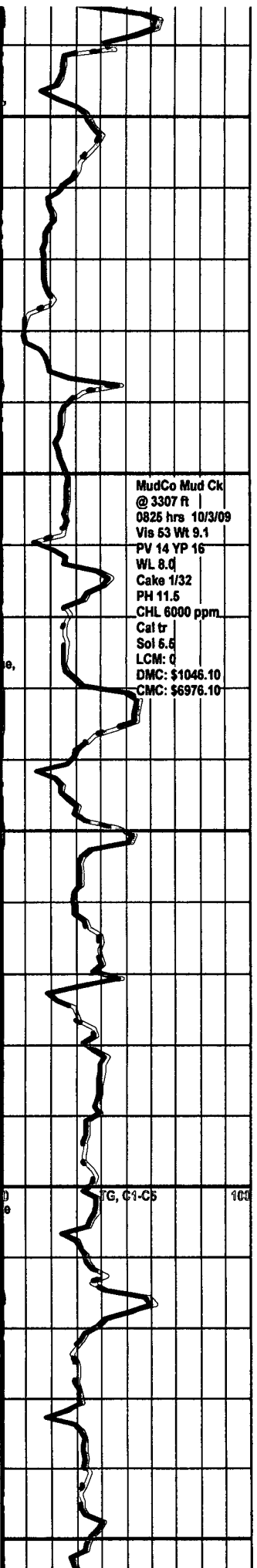
Arbuckle 3398 -1494

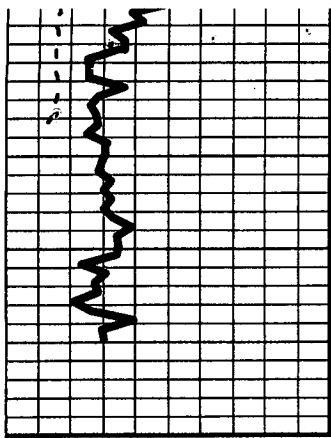
dolomite, white to light gray, micro-fine crystalline, mostly sub-rhombic, some rhombic, poor visible porosity, some caliche fill, light black and brown intercrystalline staining, probably 40% barren, some free oil droplets on break, sulfur odor, even light green fluorescence

a.a., Increase in black staining

as above, decreasing stain, no odor - dolomite fairly homogeneous

as above around 10-20% staining



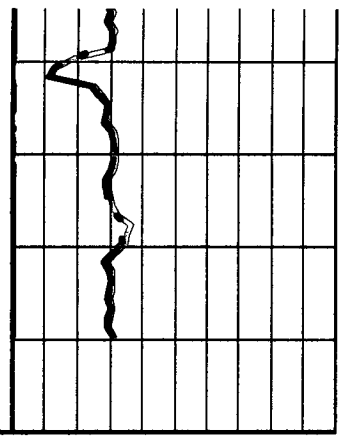


2500

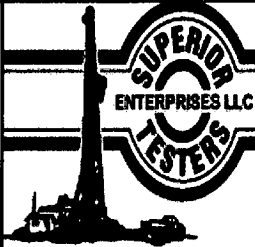


as above, still carrying appx 20% staining, still fairly homogenous, decrease in rhombic

Rotary TD @ 3490 0600 hrs 10/5/09  
Superior Log TD 3491 ft  
Geologist off location 1500 hrs 10/5/09







# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16462

DST#: 1

ATTN: KETH REAVIS

Test Start: 2009.10.02 @ 12:09:00

## GENERAL INFORMATION:

Formation: **PLATTSMOTH**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:41:30

Time Test Ended: 17:34:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3325-22-GB

Interval: 3018.00 ft (KB) To 3034.00 ft (KB) (TVD)

Total Depth: 3034.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Poor

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524 Inside

Press@RunDepth: 64.78 psia @ 3029.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.02 End Date: 2009.10.02

Last Calib.: 2009.10.02

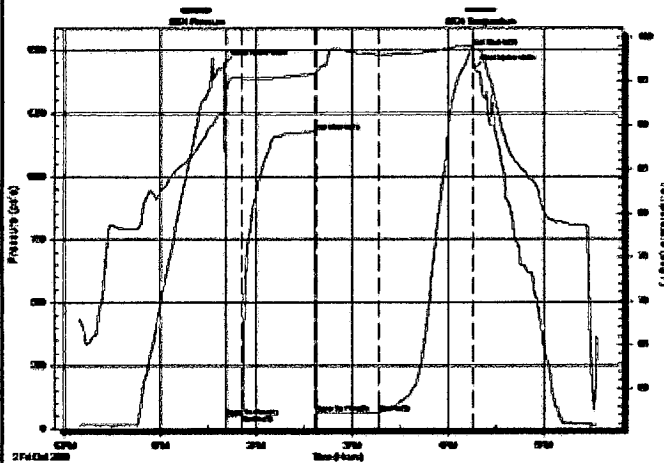
Start Time: 12:09:00 End Time: 17:34:00

Time On Blrm 2009.10.02 @ 13:40:30

Time Off Blrm 2009.10.02 @ 16:16:30

TEST COMMENT: 10/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 2 INCHES IN TO BUCKET IN 10 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 40/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 60/FINAL SHUT IN:NO BLOW BACK

Pressure vs. Time



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1447.36	91.58	Initial Hydro-static
1	49.33	94.07	Open To Flow (1)
11	54.06	95.41	Shut-in(1)
56	1179.11	95.92	End Shut-in(1)
58	63.63	96.18	Open To Flow (2)
97	64.78	98.10	Shut-in(2)
155	1512.77	99.04	End Shut-in(2)
156	1425.57	98.60	Final Hydro-static

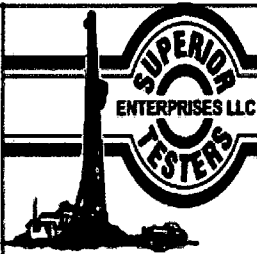
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 JAN 12 2010  
 CONSERVATION DIVISION  
 WICHITA, KS

## Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD	0.12

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16463

DST#: 2

ATTN: KETH REAVIS

Test Start: 2009.10.03 @ 09:10:00

## GENERAL INFORMATION:

Formation: **LANSING "A -D"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 10:39:30

Time Test Ended: 15:28:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3325-22 -GB

Interval: **3166.00 ft (KB) To 3225.00 ft (KB) (TVD)**

Total Depth: 3225.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: **8524**

Inside

Press@RunDepth: 65.60 psia @ 3220.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.03

End Date: 2009.10.03

Last Calib.: 2009.10.03

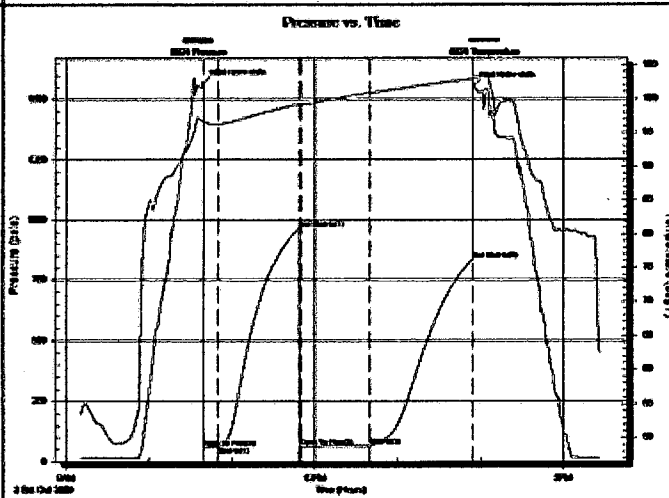
Start Time: 09:10:00

End Time: 15:28:00

Time On Btm: 2009.10.03 @ 10:39:00

Time Off Btm: 2009.10.03 @ 13:55:00

**TEST COMMENT:** 10/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/4 INCH IN 10 MINUTES  
 60/INITIAL SHUT IN: NO BLOW BACK  
 50/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 75/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1565.21	96.69	Initial Hydro-static
1	59.56	96.46	Open To Flow (1)
11	61.49	96.28	Shut-in(1)
70	964.20	99.19	End Shut-in(1)
71	62.20	99.13	Open To Flow (2)
121	65.60	100.87	Shut-in(2)
195	838.05	102.90	End Shut-in(2)
196	1557.09	103.12	Final Hydro-static

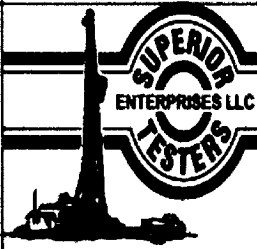
RECEIVED  
 KANSAS CORPORATION COMMISSION  
 JAN 12 2010  
 CONSERVATION DIVISION  
 WICHITA, KS

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.05

## Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcf/d)



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket 16465

DST#: 4

ATTN: KETH REAVIS

Test Start 2009 10.04 @ 14 30.00

## GENERAL INFORMATION:

Formation **LANSING "H - K"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened 15:40:30

Time Test Ended 19 33 00

Test Type Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No. 3325-22-GB

Interval: 3280.00 ft (KB) To 3371.00 ft (KB) (TVD)

Reference Elevations 1904.00 ft (KB)

Total Depth 3371.00 ft (KB) (TVD)

1899.00 ft (CF)

Hole Diameter 6 88 inches Hole Condition: Fair

KB to GR/CF 5 00 ft

Serial #: 8524 Inside

Press@RunDepth 78 23 psia @ 3366.00 ft (KB)

Capacity: 5000.00 psia

Start Date 2009 10 04

End Date

2009 10 04

Last Calib

2009 10 04

Start Time 14:30 00

End Time:

19 33:00

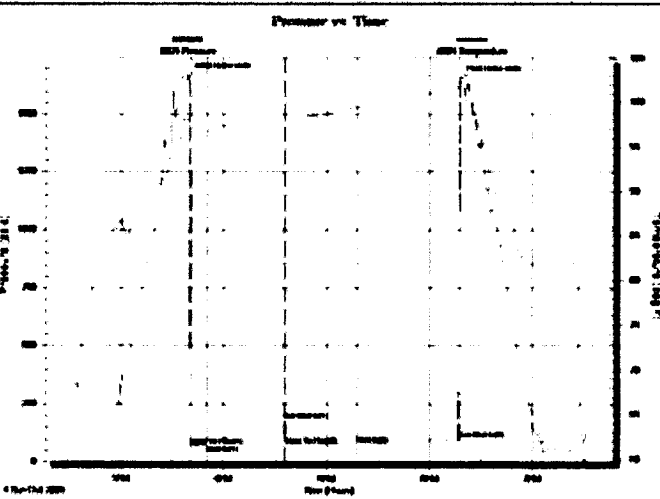
Time On Btm

2009 10 04 @ 15:39 30

Time Off Btm

2009 10 04 @ 18 18 00

TEST COMMENT: 10/INITIAL OPEN WEAK SURGE DID NOT BUILD  
 45/INITIAL SHUT IN NO BLOW BACK  
 45/FINAL OPEN WEAK SURFACE BLOW BUILT 1/2 STAYED STEADY THROUGHOUT OPEN  
 60/FINAL SHUT IN NO BLOW BACK



## PRESSURE SUMMARY

Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	1665.68	98.10	Initial Hydro-static
1	70.97	97.86	Open To Flow (1)
11	74.95	97.52	Shut-In(1)
56	179.90	97.89	End Shut-In(1)
57	72.43	97.93	Open To Flow (2)
98	78.23	99.43	Shut-In(2)
158	98.48	101.60	End Shut-In(2)
159	1652.55	102.53	Final Hydro-static

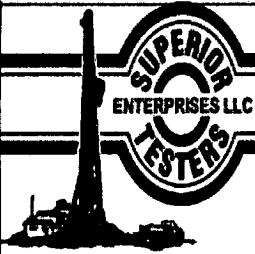
## Recovery

Length (ft)	Description	Volume (bbl)
10 00	SPOT OIL CUT MUD 1%O 99%M	0.05

## Gas Rates

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

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 JAN 12 2010  
 CONSERVATION DIVISION  
 WICHITA, KS



# DRILL STEM TEST REPORT

SHELBY RESOURCES L.L.C

MAULER # 1-13

PO BOX 1213

HAYS KS 67601

13-18-14W BARTON

Job Ticket: 16464

DST#: 3

ATTN: KETH REAVIS

Test Start: 2009.10.03 @ 23:00:00

## GENERAL INFORMATION:

Formation: **LANSING "F-G"**

Deviated: No Whipstock ft (KB)

Time Tool Opened: 00:19:00

Time Test Ended: 02:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3325-22-GB

Interval: **3218.00 ft (KB) To 3259.00 ft (KB) (TVD)**

Total Depth: **3259.00 ft (KB) (TVD)**

Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1904.00 ft (KB)

1899.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8524

Inside

Press@RunDepth: 60.58 psia @ 3254.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2009.10.03

End Date: 2009.10.04

Last Calib.: 2009.10.04

Start Time: 23:00:00

End Time: 02:53:00

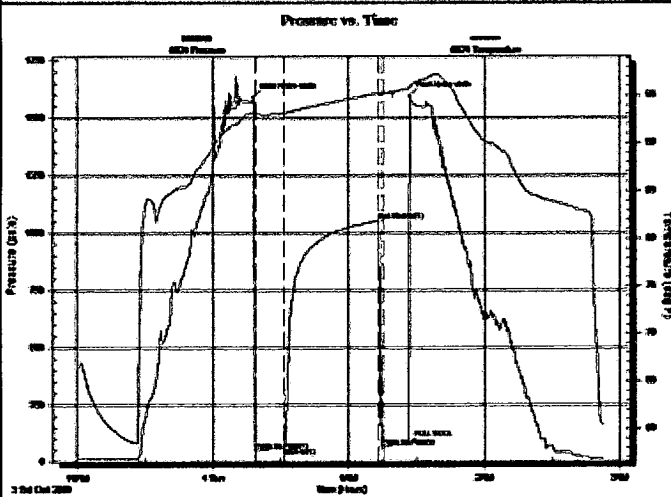
Time On Btm: 2009.10.04 @ 00:18:00

Time Off Btm: 2009.10.04 @ 01:27:00

TEST COMMENT: 10/INITIAL OPEN:VERY WEAK SURGE DID NOT BUILD

45/INITIAL SHUT IN:NO BLOW BACK

10/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 5 MINUTES INTO OPEN WEAK SURGE DIED OFF



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1589.92	93.23	Initial Hydro-static
1	47.85	93.07	Open To Flow (1)
14	60.58	93.16	Shut-In(1)
56	1051.79	95.27	End Shut-In(1)
57	65.11	95.22	Open To Flow (2)
69	75.83	95.69	PULL TOOL
69	1593.89	96.02	Final Hydro-static

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KANSAS CORPORATION COMMISSION

JAN 12 2010

CONSERVATION DIVISION  
WICHITA, KS

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD	0.30

## Gas Rates

Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)