



KANSAS CORPORATION COMMISSION 1057529  
OIL & GAS CONSERVATION DIVISION

Form ACO-1  
June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 31725  
Name: Shelby Resources LLC  
Address 1: 2717 Canal Blvd  
Address 2: Suite C  
City: HAYS State: KS Zip: 67601 +  
Contact Person: Chris Gottschalk  
Phone: ( 785 ) 623-1524  
CONTRACTOR: License # 5142  
Name: Sterling Drilling Company  
Wellsite Geologist: Keith Reavis  
Purchaser: Plains Marketing

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
11/01/2010    11/09/2010    12/01/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 15-009-25487-00-00  
Spot Description: \_\_\_\_\_  
NW NE SW SE Sec. 16 Twp. 19 S. R. 12  East  West  
1265 Feet from  North /  South Line of Section  
1894 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: Miller Well #: 1-16  
Field Name: \_\_\_\_\_  
Producing Formation: L-KC  
Elevation: Ground: 1872 Kelly Bushing: 1883  
Total Depth: 3550 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 733 Feet  
Multiple Stage Cementing Collar Used?  Yes  No  
If yes, show depth set: \_\_\_\_\_ Feet  
If Alternate II completion, cement circulated from: \_\_\_\_\_  
feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**  
(Data must be collected from the Reserve Pit)  
Chloride content: 21000 ppm Fluid volume: 1200 bbls  
Dewatering method used: Evaporated  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

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

Submitted Electronically

**KCC Office Use ONLY**

Letter of Confidentiality Received  
Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

ALT  I  II  III Approved by: Deanna Garrison Date: 06/14/2011



1057529

Operator Name: Shelby Resources LLC Lease Name: Miller Well #: 1-16  
 Sec. 16 Twp. 19 S. R. 12  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 complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Topeka</td> <td>2820</td> <td>-937</td> </tr> <tr> <td>Heebner</td> <td>3053</td> <td>-1170</td> </tr> <tr> <td>Lansing</td> <td>3181</td> <td>-1298</td> </tr> <tr> <td>Base KC</td> <td>3436</td> <td>-1553</td> </tr> <tr> <td>Conglomerate</td> <td>3439</td> <td>-1556</td> </tr> <tr> <td>Arbuckle 3448 -1565</td> <td>3448</td> <td>-1565</td> </tr> </tbody> </table>	Name	Top	Datum	Topeka	2820	-937	Heebner	3053	-1170	Lansing	3181	-1298	Base KC	3436	-1553	Conglomerate	3439	-1556	Arbuckle 3448 -1565	3448	-1565
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Lansing	3181	-1298																				
Base KC	3436	-1553																				
Conglomerate	3439	-1556																				
Arbuckle 3448 -1565	3448	-1565																				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	733	60/40 poz	350	2%gel/3%cc
production	7.875	5.5	15.5	3514	60/40 poz-AA2	200	2%gel/3%cc

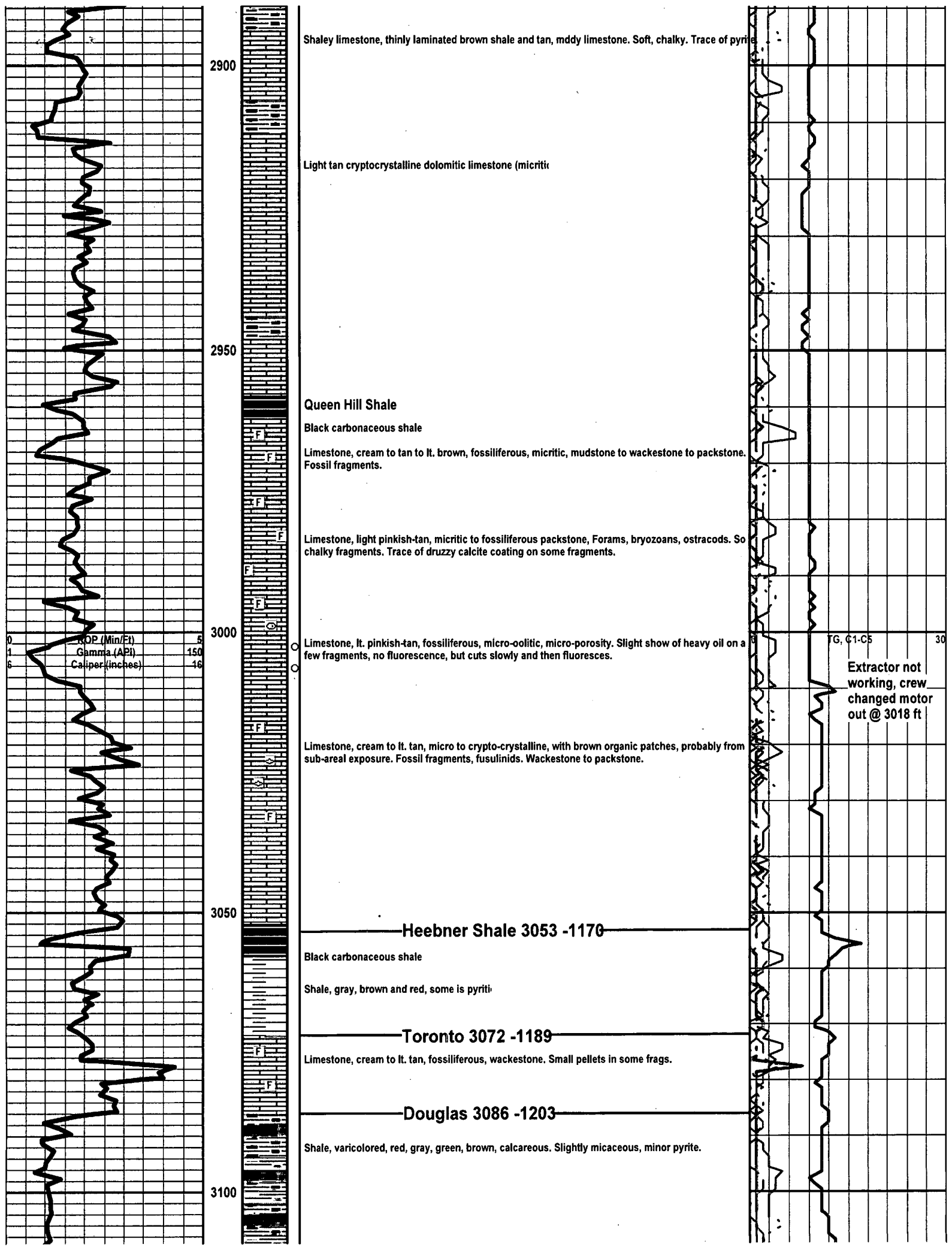
ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
___ Perforate				
___ Protect Casing				
___ Plug Back TD				
___ Plug Off Zone				

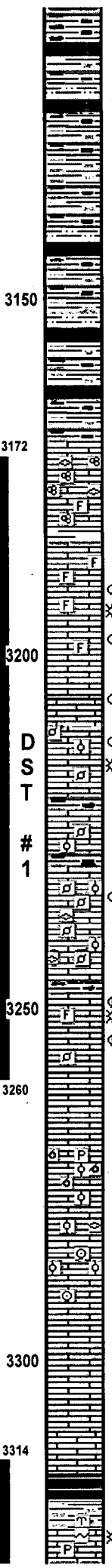
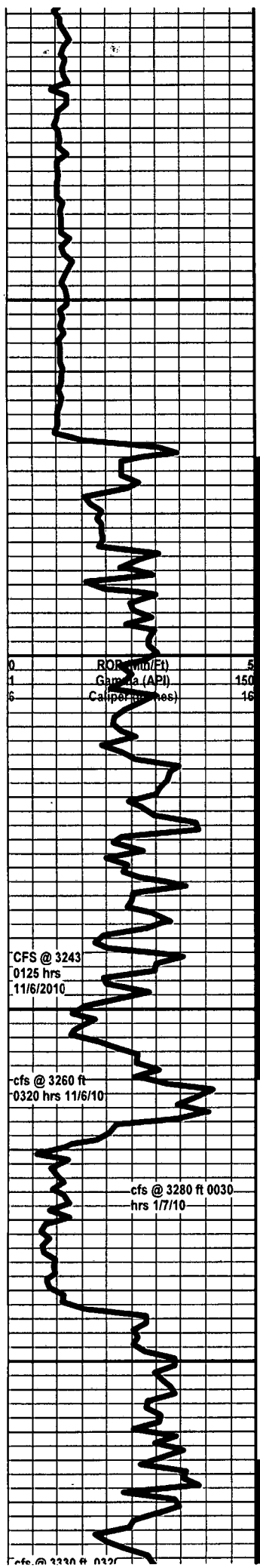
Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
2	3248-52	conventional	

<b>TUBING RECORD:</b>		Size: <u>2.375</u>	Set At: <u>3448</u>	Packer At: <u> </u>	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u> </u>		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) <u> </u>			
Estimated Production Per 24 Hours	Oil Bbls. <u>45</u>	Gas Mcf <u>0</u>	Water Bbls. <u>0</u>	Gas-Oil Ratio <u> </u>	Gravity <u>41</u>

<b>DISPOSITION OF GAS:</b> <input checked="" type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) <u> </u>	<b>PRODUCTION INTERVAL:</b> <u>3248-52</u>
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Varicolored shale with silty laminations. Micaceous...both muscovite and bioti

**Brown Lime 3170 -1287**

Limestone, brown, highly fossiliferous, packstone to grainstor

**Lansing 3185 -1302**

Limestone, cream, fossiliferous, packstone. Trace of translucent tan to clear chert with conchoidal fracturing. Hydrocarbon odor, slight oil show, gas bubbles bleeding from porosity. Weak cut, weak fluorescence.

Limestone as above, with hydrocarbon odor. Some fragments with weak staining, slow streaming cut

Limestone, cream to brown, fossiliferous, peletal, oolitic, boundstone. Trace is coarsely crystalline, forams. Some frags with oil staining, streaming cut, weak odor, gas bubbles seeping from pores. Fair porosity.

Limestone: brown peletal/oolitic, finely-crystalline packstone. Oil odor. Few fragments with oil staining. Poor porosity.

Limestone as above with crinoids, fassulinids. Faint odor, no shows.

Limestone: cream to tan, fossiliferous packstone with intercrystalline porosity. Strong odor, fair staining, good streaming cut.

Limestone: cream, fossiliferous packstone. Poor porosity. Fragments of tan and gray, translucent chert. Weak oil aroma. No shows.

Limestone: cream, micritic, microcrystalline to cryptocrystalline, tight.

Limestone: brown, oolitic, oomoldic grainstone. Some chalky fragments. Chert inclusions in a few frags. Trace of pyrite. Good porosity. No shows.

Limestone as above, but with fassulinids and crinoids. Good porosity. No shows.

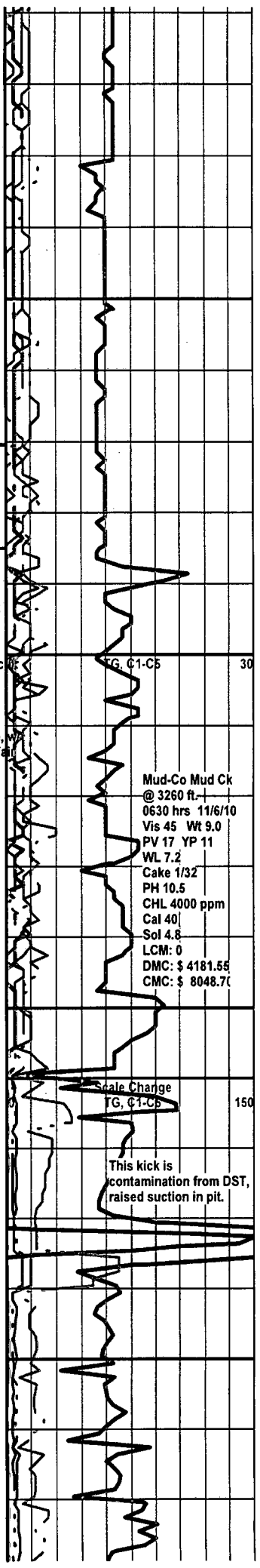
Limestone: tan, micritic, micro to cryptocrystalline. Tight, no porosity. No show.

Limestone: much as above, but becoming darker and muddier.

Black, carbonaceous shale.

Shale: reddish-gray, green, fossiliferous, bryozoans.

Limestone: tan to light brown, fossiliferous, packstone. Odor, but no visible oil, no cut. Tr. py, alauconite. Small gas kick



Mud-Co Mud Ck @ 3260 ft. - 0630 hrs 11/6/10  
 Vis 45 Wt 9.0  
 PV 17 YP 11  
 WL 7.2  
 Cake 1/32  
 PH 10.5  
 CHL 4000 ppm  
 Cal 40  
 Sol 4.8  
 LCM: 0  
 DMC: \$ 4181.55  
 CMC: \$ 8048.70

Scale Change  
 FG, C1-C5 150

This kick is contamination from DST, raised suction in pit.

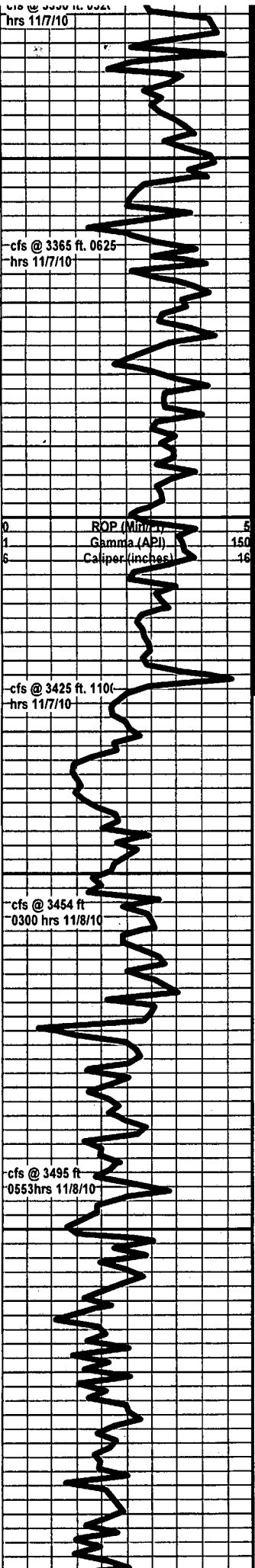
hrs 11/7/10

cfs @ 3365 ft. 0625 hrs 11/7/10

cfs @ 3425 ft. 110 hrs 11/7/10

cfs @ 3454 ft. 0300 hrs 11/8/10

cfs @ 3495 ft. 0553 hrs 11/8/10



3350  
D  
S  
T  
#  
2

3400

3425

3450

3500



Shale, ray, green, fossiliferous, crinoids.

Limestone, cream, chalky to hard and tight, fossiliferous to micritic, packstone w/ poor, spotty, heavy oil show in pores. Weak cut. Porosity is variable. Some fragments are chalky.

Limestone laminated with gray, brown and green shale.

Limestone: tan oolitic w/ poor porosity and weak, spotty oil staining. Fair cut. Weak oil aroma. Some is micritic, some is chalky. Fussulinids.

Limestone: cream, hard, dense, little porosity, micritic, fossils.

Shale: reddish-brown and greenish-gray, with silty micaceous laminations.

Limestone: Tan, micritic, with secondary, crystalline porosity and fair oil staining, odor, and good cut.

Limestone: Lt. tan to tan, dense, hard, tight, micritic, lithographic. Weakly fossiliferous. Trace of tan, translucent chert. The lower part had tightly-cemented oolite grainstone.

Dark gray, to black, to light green shale.

Limestone: cream to light tan, tightly-cemented oolite grainstone to massive, microcrystalline to cryptocrystalline micrite. No shows.

Base KC 3420 -1537

Conglomerate 3431 -1548

Shale: vari-colored, green, red, brown, black  
Vari-colored limestone: tan, greenish-tan, reddish-brown, mixed with shale.  
Vari-colored chert: opaque red, translucent orange to cream, conchoidal fractures with vitreous surfaces.

Chert: vari-colored, red, orange, yellow, tan, cream, white, opaque to translucent, conchoidal fractured, vitreous.

Chert as above, some fragments with oolites.

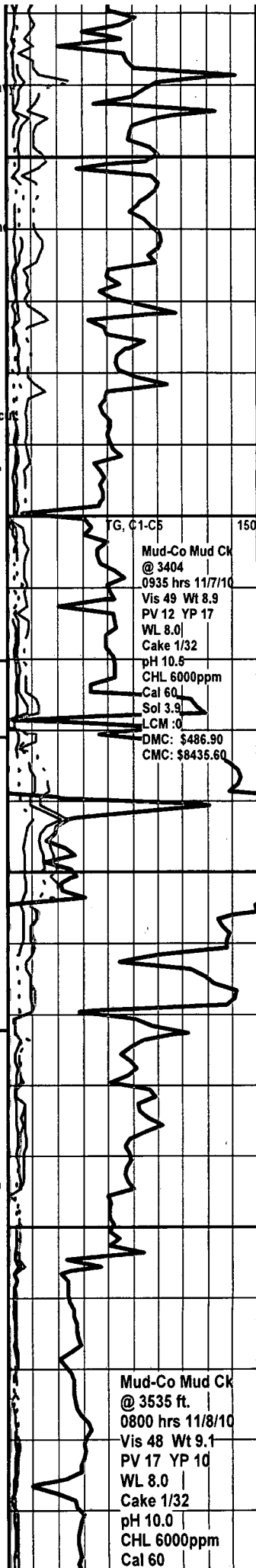
Arbuckle 3473 -1590

Dolomite: cream-colored, succrosic to massive micritic. Faint oil odor. Spotty oil staining in intercrystalline porosity. Poor, slow cut.

Dolomite: cream to tan-colored, succrosic texture with rhombic xls, to massive micritic. Very few shows of oil with weak cut. Intercrystalline porosity increases with depth. Oil shows decrease with depth.

Dolomite as above, but lacks shows.

As above.



FG, C1-C5 150  
Mud-Co Mud Ck @ 3404 0935 hrs 11/7/10  
Vis 49 Wt 8.9  
PV 12 YP 17  
WL 8.0  
Cake 1/32  
pH 10.5  
CHL 6000ppm  
Cal 60  
Sol 3.9  
LCM :0  
DMC: \$486.90  
CMC: \$8435.60

Mud-Co Mud Ck @ 3535 ft. 0800 hrs 11/8/10  
Vis 48 Wt 9.1  
PV 17 YP 10  
WL 8.0  
Cake 1/32  
pH 10.0  
CHL 6000ppm  
Cal 60





Shelby Resources L.L.C.

## Miller #1-16

NW-NE-SW-SE  
1265' FSL & 1894' FEL  
Sec.16, T19s - R12w  
Barton County, Kansas

API # 15-009-25487-00-00

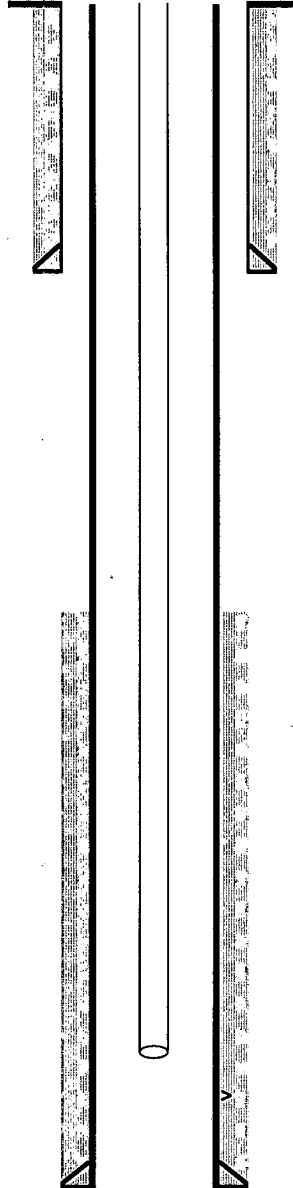
Spud Date: 11/1/2010  
Completed: 11/24/2010

Field: Wildcat

GL: 1872'  
KB: 1883'

**Surface Casing :**  
8-5/8" 23# set @ 733'  
Cemented with 350 sx  
60/40 Poz

**Production Casing:**  
5-1/2", 15.5# set @ 3514'  
Cemented with 200 sx  
50 sx 60/40 Poz (scavenger)  
150 sx AA2



TOC: Surface

**Tubing:**  
112 joints of 2-3/8" tubing  
SN set @ 3448'

**Rods:**  
137 x 3/4" rods

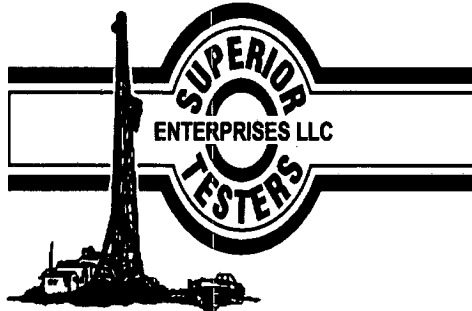
**Pump:**  
2" x 1.5" X 12' RWT

TOC: 2198' CBL

**L-KC Perfs:**  
3248-52' (8) 11/23/10

{ }  
{ }  
PBSD: 3485'  
TD: 3550'





## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union BLVD.Suite 208  
Lakewood, Colorado 80228

ATTN: Keith Reavis

**16/19S/12W Barton**

**Miller #1-16**

Start Date: 2010.11.06 @ 09:19:00

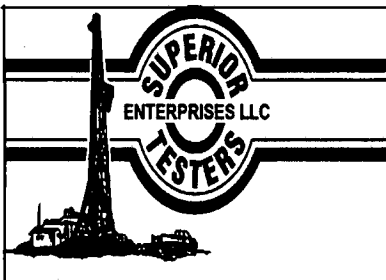
End Date: 2010.11.06 @ 20:49:00

Job Ticket #: 15713                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.11.06 @ 21:12:25

Shelby Resources L.L.C      Miller #1-16      16/19S/12W Barton      DST # 1      Lansing "A-F" Zone      2010.11.06



# DRILL STEM TEST REPORT

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

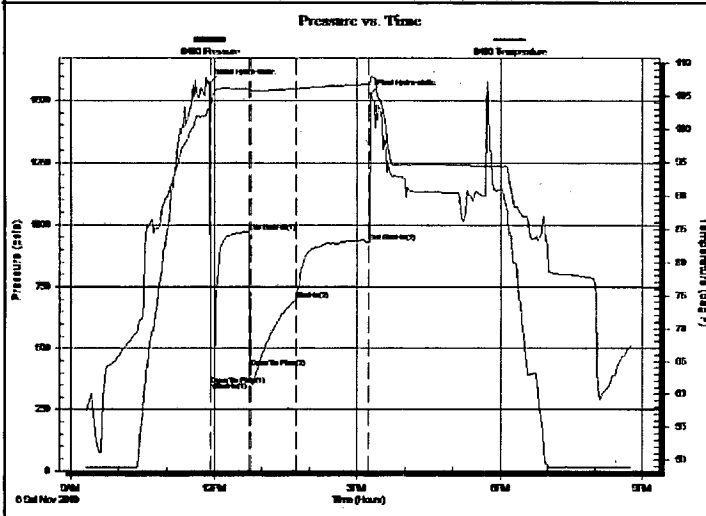
**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15713      DST#: 1  
 Test Start: 2010.11.06 @ 09:19:00

## GENERAL INFORMATION:

Formation: **Lansing "A-F" Zone**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 11:55:30  
 Time Test Ended: 20:49:00  
 Interval: **3172.00 ft (KB) To 3260.00 ft (KB) (TVD)**  
 Total Depth: **3260.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-18  
 Reference Elevations: 1883.00 ft (KB)  
 1872.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8400      Outside**  
 Press@RunDepth: 697.02 psia @ 3256.31 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.11.06      End Date: 2010.11.06      Last Calib.: 2010.11.06  
 Start Time: 09:19:00      End Time: 20:49:00      Time On Btm: 2010.11.06 @ 11:53:30  
 Time Off Btm: 2010.11.06 @ 15:17:00

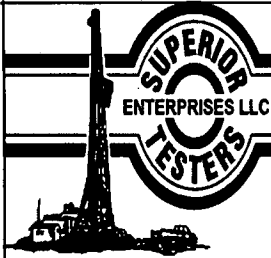
**TEST COMMENT:** 1ST Opening 5 Minutes Strong blow/blow blew to bottom of the bucket in 1 minute/blow w as building  
 1ST Shut-In 45 Minutes yes blow back/4 inches into bucket of water and backed off to 1 inch into bucket  
 2ND Opening 60 Minutes Very Strong blow/blew bottom of bucket of water in 30 seconds/gas to surface in 7 minutes/gauged gas see gas flow chart



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1571.74	103.20	Initial Hydro-static
2	350.48	103.39	Open To Flow (1)
7	362.81	105.76	Shut-In(1)
51	972.55	106.05	End Shut-In(1)
52	422.10	105.86	Open To Flow (2)
109	697.02	106.08	Shut-In(2)
201	931.96	106.77	End Shut-In(2)
204	1528.39	107.74	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
2450.00	Clean Gassy Oil/Gas 15% Oil 85%	32.66
0.00	Gravity of Oil corrected w as 43	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.30	2.90
Last Gas Rate	0.13	10.22	4.06
Max. Gas Rate	0.13	11.20	4.45



# DRILL STEM TEST REPORT

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

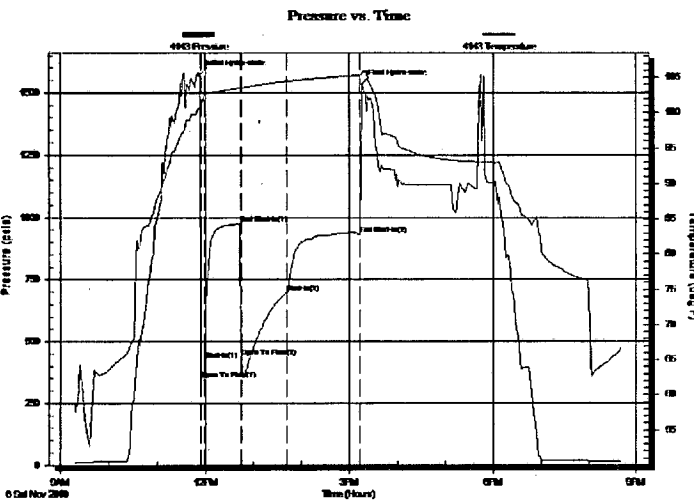
**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15713      DST#: 1  
 Test Start: 2010.11.06 @ 09:19:00

## GENERAL INFORMATION:

Formation: **Lansing "A-F" Zone**  
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 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-18  
 Reference Elevations: 1883.00 ft (KB)  
 1872.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 4143      Inside**  
 Press@RunDepth: 932.55 psia @ 3255.31 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.11.06      End Date: 2010.11.06      Last Calib.: 2010.11.06  
 Start Time: 09:19:00      End Time: 20:42:45      Time On Btm: 2010.11.06 @ 11:52:46  
 Time Off Btm: 2010.11.06 @ 15:16:16

**TEST COMMENT:** 1ST Opening 5 Minutes Strong blow/blow blew to bottom of the bucket in 1 minute/blow w as building  
 1ST Shut-In 45 Minutes yes blow back/4 inches into bucket of water and backed off to 1 inch into bucket  
 2ND Opening 60 Minutes Very Strong blow/blow bottom of bucket of water in 30 seconds/gas to surface in 7 minutes/gauged gas see gas flow chart



## PRESSURE SUMMARY

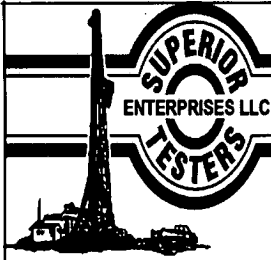
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1573.01	100.58	Initial Hydro-static
2	347.21	101.06	Open To Flow (1)
7	427.50	102.68	Shut-In(1)
51	973.99	103.53	End Shut-In(1)
52	437.19	103.57	Open To Flow (2)
109	698.48	104.44	Shut-In(2)
201	932.55	105.33	End Shut-In(2)
204	1534.66	105.69	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2450.00	Clean Gassy Oil/Gas 15% Oil 85%	32.66
0.00	Gravity of Oil corrected w as 43	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.13	7.30	2.90
Last Gas Rate	0.13	10.22	4.06
Max. Gas Rate	0.13	11.20	4.45



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15713      DST#: 1  
 Test Start: 2010.11.06 @ 09:19:00

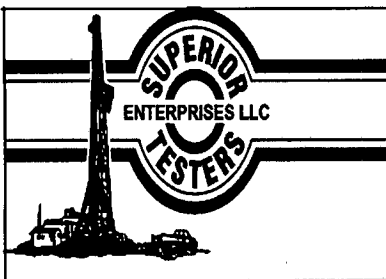
**Tool Information**

Drill Pipe:	Length: 2967.00 ft	Diameter: 3.80 inches	Volume: 41.62 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.98 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 25000.00 lb
		<b>Total Volume:</b>	<b>42.54 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.98 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	3172.00 ft			Final 73000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.31 ft			
Tool Length:	116.31 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Thanks For The Work!

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3144.00	
Shut-In Tool	5.00			3149.00	
Hydrolic Tool	5.00			3154.00	
Jars	6.00			3160.00	
Safety Joint	2.00			3162.00	
Packer	5.00			3167.00	29.00      Bottom Of Top Packer
Packer	5.00			3172.00	
Perforations	7.00			3179.00	
Change Over Sub	0.75			3179.75	
Drill Pipe	63.81			3243.56	
Change Over Sub	0.75			3244.31	
Perforations	10.00			3254.31	
Recorder	1.00	4143	Inside	3255.31	
Recorder	1.00	8400	Outside	3256.31	
Bullnose	3.00			3259.31	87.31      Bottom Packers & Anchor

**Total Tool Length: 116.31**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15713      DST#: 1  
 Test Start: 2010.11.06 @ 09:19:00

### Mud and Cushion Information

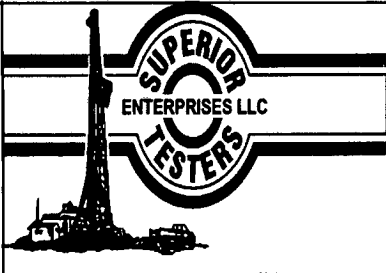
Mud Type: Gel Chem	Cushion Type:	Oil API:	43 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 45.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.20 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2450.00	Clean Gassy Oil/Gas 15% Oil 85%	32.664
0.00	Gravity of Oil corrected was 43	0.000

Total Length: 2450.00 ft      Total Volume: 32.664 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Congrates on the nice well !!!!



# DRILL STEM TEST REPORT

**GAS RATES**

Shelby Resources L.L.C  
445 Union BLVD.Suite 208  
Lakewood, Colorado 80228  
ATTN: Keith Reavis

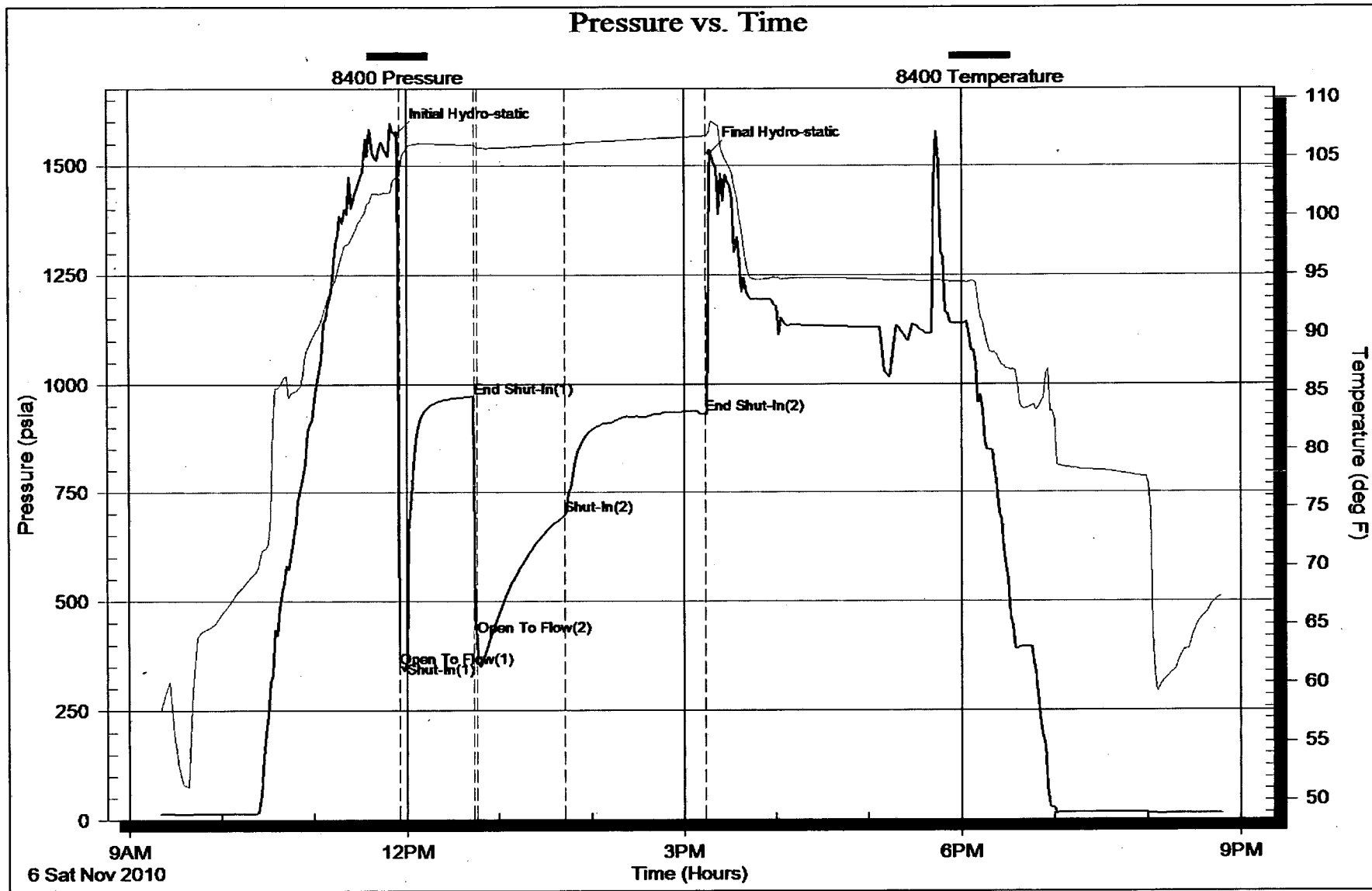
**Miller #1-16**  
**16/19S/12W Barton**  
Job Ticket: 15713      **DST#: 1**  
Test Start: 2010.11.06 @ 09:19:00

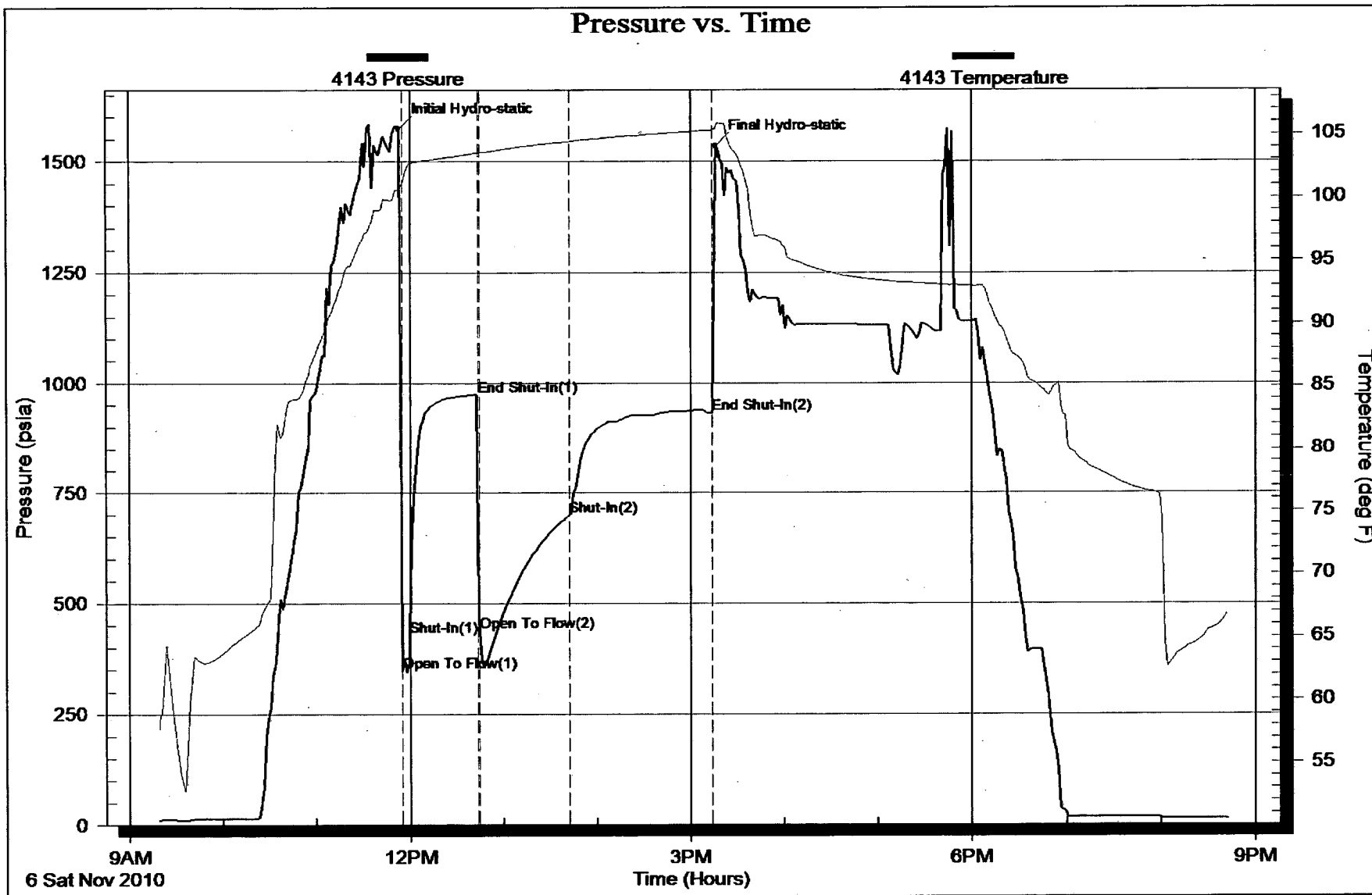
## Gas Rates Information

Temperature: 1 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

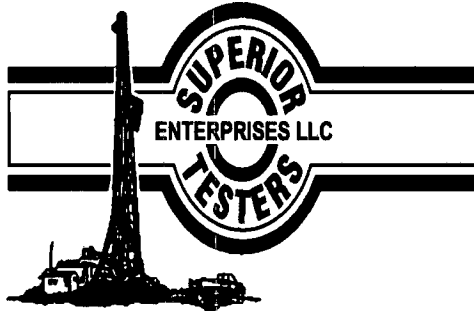
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	20	0.13	7.30	2.90
1	30	0.13	11.20	4.45
1	40	0.13	10.70	4.25
1	50	0.13	10.89	4.32
1	60	0.13	10.22	4.06









## DRILL STEM TEST REPORT

Prepared For: **Shelby Resources L.L.C**

445 Union BLVD.Suite 208  
Lakewood, Colorado 80228

ATTN: Keith Reavis

**16/19S/12W Barton**

**Miller #1-16**

Start Date: 2010.11.07 @ 02:03:00

End Date: 2010.11.07 @ 00:00:00

Job Ticket #: 15715                      DST #: 2

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.11.07 @ 21:58:31.

Shelby Resources L.L.C

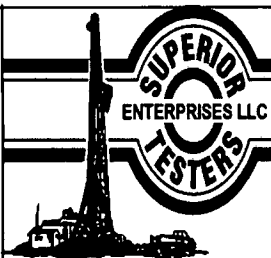
Miller #1-16

16/19S/12W Barton

DST # 2

Lansing "H-L" Zone

2010.11.07



# DRILL STEM TEST REPORT

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

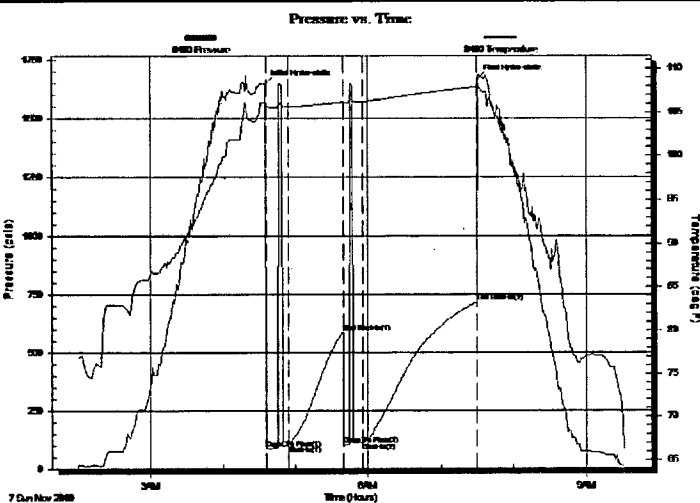
**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15715      DST#: 2  
 Test Start: 2010.11.07 @ 02:03:00

## GENERAL INFORMATION:

Formation: **Lansing "HL" Zone**  
 Deviated: No      Whipstock:      ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 00:00:00  
 Interval: **3314.00 ft (KB) To 3425.00 ft (KB) (TVD)**  
 Total Depth: **3425.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-Great Bend-18  
 Reference Elevations: 1883.00 ft (KB)  
 1872.00 ft (CF)  
 KB to GR/CF: 11.00 ft

**Serial #: 8400      Outside**  
 Press@RunDepth: 715.23 psia @ 3421.40 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.11.07      End Date: 2010.11.07      Last Calib.: 2010.11.07  
 Start Time: 02:00:00      End Time: 09:32:00      Time On Btm: 2010.11.07 @ 04:35:30  
 Time Off Btm: 2010.11.07 @ 07:30:30

**TEST COMMENT:** 1ST Opening 18 Minutes flow w as dead/w aited 10 minutes flushed tool/good flush tool w as still dead  
 1ST Shut-In 45 Minutes no blow back  
 2ND Opening 15 Minutes flow dead-flushed tool no help- shut tool in and went to pull it had little blow back  
 2ND Shut-In 90 Minutes yes blow back but not measureable/read comments on Tool Section



## PRESSURE SUMMARY

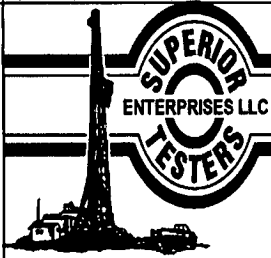
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1645.77	106.09	Initial Hydro-static
1	84.77	105.54	Open To Flow (1)
19	99.23	105.63	Shut-In(1)
64	585.39	106.17	End Shut-In(1)
65	101.90	106.04	Open To Flow (2)
81	112.93	106.22	Shut-In(2)
174	715.23	107.91	End Shut-In(2)
175	1665.88	108.89	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Slightly oil cut mud 5% Oil 95% Mud	0.32

## Gas Rates

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



# DRILL STEM TEST REPORT

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

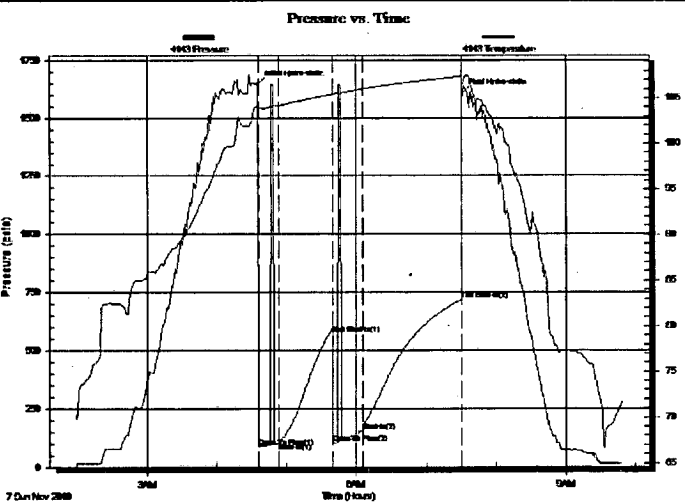
**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15715      DST#: 2  
 Test Start: 2010.11.07 @ 02:03:00

## GENERAL INFORMATION:

Formation: **Lansing "HL" Zone**  
 Deviated: No      Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00      Tester: Dylan E Ellis  
 Time Test Ended: 00:00:00      Unit No: 3345-Great Bend-18  
 Interval: **3314.00 ft (KB) To 3425.00 ft (KB) (TVD)**      Reference Elevations: 1883.00 ft (KB)  
 Total Depth: 3425.00 ft (KB) (TVD)      1872.00 ft (CF)  
 Hole Diameter: 7.88 inches      Hole Condition: Fair      KB to GR/CF: 11.00 ft

**Serial #: 4143      Inside**  
 Press@RunDepth: 717.59 psia @ 3420.40 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.11.07      End Date: 2010.11.07      Last Calib.: 2010.11.07  
 Start Time: 02:00:00      End Time: 09:48:15      Time On Btm: 2010.11.07 @ 04:35:46  
 Time Off Btm: 2010.11.07 @ 07:30:46

**TEST COMMENT:** 1ST Opening 18 Minutes flow w as dead/w aited 10 minutes flushed tool/good flush tool w as still dead  
 1ST Shut-In 45 Minutes no blow back  
 2ND Opening 15 Minutes flow dead-flushed tool no help- shut tool in and went to pull it had little blow back  
 2ND Shut-In 90 Minutes yes blow back but not measureable/read comments on Tool Section



## PRESSURE SUMMARY

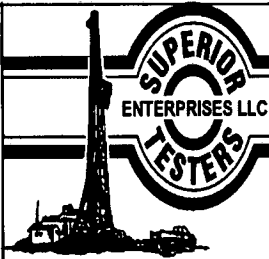
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1645.59	104.09	Initial Hydro-static
1	88.19	104.02	Open To Flow (1)
18	101.71	104.17	Shut-In(1)
64	572.96	105.27	End Shut-In(1)
65	102.86	105.44	Open To Flow (2)
90	153.21	106.00	Shut-In(2)
174	717.59	107.68	End Shut-In(2)
175	1608.68	106.64	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
65.00	Slightly oil cut mud 5% Oil 95% Mud	0.32

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

Miller #1-16  
 16/19S/12W Barton  
 Job Ticket: 15715      DST#: 2  
 Test Start: 2010.11.07 @ 02:03:00

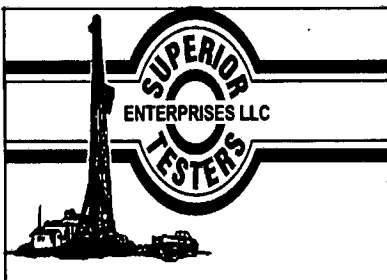
### Tool Information

Drill Pipe:	Length: 3128.00 ft	Diameter: 3.80 inches	Volume: 43.88 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 186.98 ft	Diameter: 2.25 inches	Volume: 0.92 bbl	Weight to Pull Loose: 8000.00 lb
			<u>Total Volume: 44.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	29.98 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	3314.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	110.40 ft			
Tool Length:	139.40 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: We shut tool in/got ready to pull the tool and had blow back from the 1 inch hose/tried to measure the blow back but lost it as it bled off on us.

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3286.00	
Shut-In Tool	5.00			3291.00	
Hydraulic Tool	5.00			3296.00	
Jars	6.00			3302.00	
Safety Joint	2.00			3304.00	
Packer	5.00			3309.00	29.00      Bottom Of Top Packer
Packer	5.00			3314.00	
Perforations	2.00			3316.00	
Change Over Sub	0.75			3316.75	
Drill Pipe	94.90			3411.65	
Change Over Sub	0.75			3412.40	
Perforations	7.00			3419.40	
Recorder	1.00	4143	Inside	3420.40	
Recorder	1.00	8400	Outside	3421.40	
Bullnose	3.00			3424.40	110.40      Bottom Packers & Anchor

**Total Tool Length: 139.40**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

Shelby Resources L.L.C  
 445 Union BLVD.Suite 208  
 Lakewood, Colorado 80228  
 ATTN: Keith Reavis

**Miller #1-16**  
**16/19S/12W Barton**  
 Job Ticket: 15715      **DST#: 2**  
 Test Start: 2010.11.07 @ 02:03:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 9.00 lb/gal  
 Viscosity: 49.00 sec/qt  
 Water Loss: 7.99 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 6000.00 ppm  
 Filter Cake: 1.00 inches

Cushion Type:  
 Cushion Length: ft  
 Cushion Volume: bbl  
 Gas Cushion Type:  
 Gas Cushion Pressure: psia

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Slightly oil cut mud 5% Oil 95% Mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

