

**JAMES C. MUSGROVE**

Petroleum Geologist

P.O. Box 215

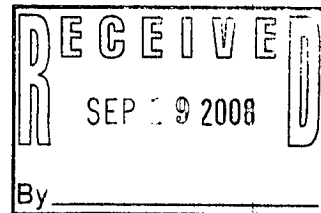
212 Main St.

Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Abarta Oil & Gas Co. Inc.  
Weeks Trust #2  
NW-SE-SE-NE (2000' FNL & 1940' FEL)  
Section 18-15s-13w  
Russell County, Kansas  
Page No. 1



**5 1/2" Production Casing Set**

**Contractor:** Royal Drilling Company

**Commenced:** August 27, 2008

**Completed:** September 1, 2008

**Elevation:** 1839' K.B.; 1837' D.F.; 1832' G.L.

**Casing Program:** Surface; 8 5/8" @ 832'  
Production/Disposal; 5 1/2" @ 3400'

**Samples:** Samples saved and examined 2600' to the Rotary Total Depth.

**Drilling Time:** One (1) foot drilling time recorded and kept 2300' to the Rotary Total Depth.

**Measurements:** All depths measured from the Kelly Bushing.

**Drill Stem Test:** There was one (1) Drill Stem Test ran by Trilobite Testing Inc.

**Electric Log:** By Superior Well Services; Dual Induction Compensated Density/Neutron, Micro & Sonic Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	828	+1011
Tarkio Lime	2451	-612
3 <sup>rd</sup> Tarkio Sand	2475	-636
Elmont	2515	-676
Howard	2651	-812
Topeka	2717	-878
Heebner	2958	-1119
Toronto	2973	-1134
Douglas	2989	-1150
Lansing	3028	-1189
Base Kansas City	3263	-1424
Arbuckle	3276	-1437
Rotary Total Depth	3400	-1561
Log Total Depth	3401	-1562

(All tops and zones corrected to Electric Log measurements).

**SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.**

**Remarks:**

No samples caught through Tarkio section, Samples start at 2600 ft.

RECEIVED  
FEB 10 2011  
KCC WICHITA

### TOPEKA SECTION

- 2717-2724' Limestone; tan, slightly fossiliferous, poor visible porosity, poor brown edge staining, one piece trace of free oil and faint odor in fresh samples.
- 2742-2746' Limestone; gray, tan, finely crystalline, fossiliferous, poor visible porosity, no shows, questionable odor.
- 2756-2762' Limestone; as above, scattered pinpoint porosity, brown spotty stain, trace of free oil and faint odor in fresh samples.
- 2835-2850' Limestone; tan, gray, finely crystalline, few granular, chalky, scattered pinpoint porosity, no shows.
- 2875-2900' Limestone; tan, fossiliferous, few granular, chalky, no shows.
- 2900-2930' Limestone; gray, white, finely crystalline, few fossiliferous, trace poor brown stain, no show of free oil and faint odor.
- 2938-2950' Limestone; as above, poor porosity, trace gray chert.

### TORONTO SECTION

- 2973-2988' Limestone; cream, white/gray, finely crystalline, chalky, few dolomitic, trace brown and light brown stain, weak show of free oil and questionable odor.

### LANSING SECTION

- 3028-3034' Limestone; white/gray, finely crystalline, fossiliferous in part, chalky, poor light brown stain, no show of free oil and no odor.
- 3044-3054' Limestone; as above, poor visible porosity, trace medium crystalline, limestone, scattered intercrystalline porosity, light brown stain, trace of free oil.
- 3060-3070' Limestone; tan, oomoldic, good oomoldic porosity, brown stain and saturation, show of free oil and good odor in fresh samples.

Drill Stem Test #1 3032-3081'

Times: 30-30-45-45

Blow: Weak to strong

Recovery: 390' gas in pipe  
75' clean gassy oil  
190' oil and gas cut watery mud  
(20% gas, 10% oil, 15% water, 55% mud)  
215' muddy water

Pressures: ISIP 642 psi  
FSIP 644 psi  
IFP 28-122 psi  
FFP 127-230 psi  
HSH 1493-1452 psi

- 3076-3090' Limestone; cream, white, fossiliferous, chalky, no shows.

RECEIVED  
FEB 10 2011  
KCC WICHITA

3098-3108'	Limestone; gray, tan, fossiliferous/oolitic, chalky, brown spotty stain, no show of free oil and faint odor in fresh samples.
3110-3119'	Limestone; as above, chalky, trace gray chert.
3120-3130'	Limestone; gray, white, oomoldic, fair to good oomoldic porosity, light brown to golden brown stain, trace of free oil and fair odor in fresh samples.
3140-3150'	Limestone; white, chalky, dense.
3150-3160'	Limestone; as above, trace gray, opaque chert.
3171-3180'	Limestone; gray, fossiliferous, sub oomoldic, trace poor light brown stain, no show of free oil and questionable odor in fresh samples.
3190-3200'	Limestone; white, oolitic, chalky, poor porosity.
3201-3212'	Limestone; white, gray, oomoldic, chalky, fair porosity, trace light brown stain, trace of free oil, odor samples broken.
3238-3250'	Limestone; white/gray, oolitic, chalky, poor visible porosity, no shows.
3250-3260'	Limestone; as above, no shows.

**ARBUCKLE SECTION**

3276-3283'	Dolomite; white, cream, fine to medium crystalline, golden brown stain, trace of free oil and faint odor in fresh samples.
3283-3290'	Dolomite; as above, sandy in part, poor to fair stain, trace of free oil and faint odor in fresh samples.
3290-3310'	Dolomite; gray, white, medium crystalline, fair intercrystalline porosity, fair brown and golden brown stain, show of free oil and fair odor in fresh samples.
3311-3325'	Dolomite; white/cream, medium and coarse crystalline, fair to good intercrystalline and vuggy porosity, brown and dark brown stain, show of free oil and fair to good odor in fresh samples.
3325-3350'	Dolomite; as above, increasingly cherty, scattered pinpoint and intercrystalline porosity, decreasing stain, show of free oil and odor.
3350-3370'	Dolomite; cream, white, finely crystalline, few medium coarse crystalline, fair intercrystalline porosity, sandy in part, no shows.
3370-3390'	Dolomite; as above, trace white and gray chert.
3390-3401'	Dolomite and chert as above; fair porosity, no shows.

Rotary Total Depth	3400 (-1561)
Log Total Depth	3401 (-1562)

RECEIVED  
 FEB 10 2011  
 KCC WICHITA

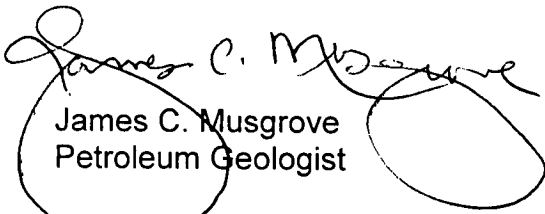
Abarta Oil & Gas Co. Inc.  
Weeks Trust #2  
NW-SE-SE-NE (2000' FNL & 1940' FEL)  
Section 18-15s-13w  
Russell County, Kansas  
Page No. 4

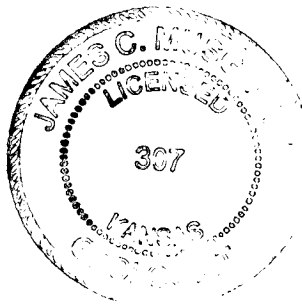
**Recommendations:**

On the basis of the favorable structural position and the positive results of Drill Stem Test #1, it was recommended that 5 1/2" production casing be set and cemented at 3399' (one foot off bottom) and the following zones be tested in the Weeks #2:

1. Arbuckle	3280-3283	perforate
2. Lansing	3120-3124	perforate
3. Lansing	3101-3104	perforate
4. Lansing	3060-3064	perforate
5. Topeka	2720-2726	perforate

Respectfully submitted;

  
James C. Musgrove  
Petroleum Geologist



RECEIVED  
FEB 10 2011  
KCC WICHITA