

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

RECEIVED ORIGINAL  
APR 30 2009

Form ACO-1  
October 2008  
Form Must Be Typed

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

KCC WICHITA

4/29/09

OPERATOR: License # 33924

Name: ABARTA Oil & Gas Co., Inc.

Address 1: 1000 Gamma Drive, Ste. 400

Address 2: \_\_\_\_\_

City: Pittsburgh State: PA Zip: 15238 + \_\_\_\_\_

Contact Person: Kenneth J. Fleeman

Phone: (412) 963-6134

CONTRACTOR: License # 33905 APR 29 2009

Name: Royal Drilling, Inc.

Wellsite Geologist: James Musgrove

Purchaser: NCRA

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.: \_\_\_\_\_

1/22/09 1/28/09 1/29/09

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - 167-23556-0000

Spot Description: \_\_\_\_\_

NE SW SE NE Sec. 18 Twp. 15 S. R. 13  East  West

2300 Feet from  North /  South Line of Section

690 Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

County: Russell

Lease Name: Weeks Trust Well #: 4

Field Name: Trapp

Producing Formation: Arbuckle

Elevation: Ground: 1791' Kelly Bushing: 1796'

Total Depth: 3254' Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: 786 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 IMS 7-10-09  
(Data must be collected from the Reserve Pit)

Chloride content: 46,000 ppm Fluid volume: 1,000 bbls

Dewatering method used: Allow to dry and backfill

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: Kenneth J. Fleeman

Title: Manager of Engineering Date: 4/29/09

Commonwealth of Pennsylvania County of Allegheny  
Subscribed and sworn to before me this 29th day of April 2009

20 09

Notary Public: Tracey G. Mulert

Date Commission Expires: 5/16/09

COMMONWEALTH OF PENNSYLVANIA  
Notarial Seal  
Tracey G. Mulert, Notary Public  
O'Hara Twp., Allegheny County  
My Commission Expires May 16, 2009

Member, Pennsylvania Association of Notaries

KCC Office Use ONLY

Letter of Confidentiality Received

If Denied, Yes  Date: \_\_\_\_\_

Wireline Log Received

Geologist Report Received

UIC Distribution

Operator Name: ABARTA Oil & Gas Co., Inc. Lease Name: Weeks Trust Well #: 4  
 Sec. 18 Twp. 15 S. R. 13  East  West County: Russell

**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 <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: <i>run 1 log w/ADDI: RAD-GUARD LOG</i>	<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:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>781</td> <td>+1015</td> </tr> <tr> <td>Topeka</td> <td>2678</td> <td>-882</td> </tr> <tr> <td>Heebner</td> <td>2916</td> <td>-1120</td> </tr> <tr> <td>Lansing</td> <td>2933</td> <td>-1187</td> </tr> <tr> <td>Base Kansas City</td> <td>3228</td> <td>-1432</td> </tr> <tr> <td>Arbuckle</td> <td>3239</td> <td>-1443</td> </tr> </table>	Name	Top	Datum	Anhydrite	781	+1015	Topeka	2678	-882	Heebner	2916	-1120	Lansing	2933	-1187	Base Kansas City	3228	-1432	Arbuckle	3239	-1443
Name	Top	Datum																				
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Arbuckle	3239	-1443																				

*km  
5/10/09*

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	786	CI A	280	3% CC, 2% Gel 1/4 Fl
Production	7 7/8"	5 1/2"	15.5	3244	CI A/Lite	225	10% Salt, 2% Gel

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>
		<div style="font-size: 24px; font-weight: bold; margin: 0;">RECEIVED</div> <div style="font-size: 24px; font-weight: bold; margin: 5px 0;">APR 30 2009</div> <div style="font-size: 24px; font-weight: bold; margin: 0;">KCC WICHITA</div>

TUBING RECORD:	Size: <u>2 7/8</u>	Set At: <u>3245</u>	Packer At: <u>3245</u>	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. <u>2/17/09</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil Bbls. <u>10</u>	Gas Mcf <u>0</u>	Water Bbls. <u>80</u>	Gas-Oil Ratio <u>-</u> Gravity <u>-</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>3243-3251</u>
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# ALLIED CEMENTING CO., LLC. 035010A

Federal Tax I.D. #

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

SERVICE POINT:

Russell KS

DATE <u>1-23-09</u>	SEC. <u>18</u>	TWP. <u>15</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START <u>10:45am</u>	JOB FINISH <u>11:30am</u>
<u>Weeks Trust LEASE</u>	WELL # <u>4</u>	LOCATION <u>Russell KS South to Winterset Rd</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>3 East 1/2 North West into</u>					

CONTRACTOR Royal #1  
 TYPE OF JOB Surface  
 HOLE SIZE 12 1/4 T.D. 786'  
 CASING SIZE 8 7/8 23# DEPTH 786'  
 TUBING SIZE DEPTH  
 DRILL PIPE DEPTH  
 TOOL DEPTH  
 PRES. MAX MINIMUM  
 MEAS. LINE SHOE JOINT 10'  
 CEMENT LEFT IN CSG. 10'  
 PERFS.  
 DISPLACEMENT 49.42 Bbl

OWNER  
 CEMENT  
 AMOUNT ORDERED 280ccm 3 1/2 cc 2 1/2 Gel 1/4# Flo

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COMMON	<u>280</u>	@	<u>13.50</u>	<u>3780.00</u>
POZMIX		@		
GEL	<u>5</u>	@	<u>20.25</u>	<u>101.25</u>
CHLORIDE	<u>10</u>	@	<u>51.50</u>	<u>515.00</u>
ASC		@		
<u>FloSed 70#</u>		@	<u>2.45</u>	<u>171.50</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>280</u>	@	<u>2.25</u>	<u>630.00</u>
MILEAGE	<u>10/sk/mile</u>			<u>300.00</u>
				TOTAL <u>5497.75</u>

EQUIPMENT  
 PUMP TRUCK CEMENTER John Roberts  
 # 409 HELPER Travis  
 BULK TRUCK  
 # 473 DRIVER CH & Chris  
 BULK TRUCK  
 # DRIVER

REMARKS:

8 7/8 casing set @ 786' Est. Circulation  
Circulate 15min Mix 280sk cement  
w/ 43.33 bbl H2O 67.82 Bbl Slurry  
Displace Plug w/ 49.42 Bbl H2O.  
Cement Did Circulate!

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<u>991.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>8</u>	@	<u>7.00</u>
MANIFOLD		@	
		@	
		@	

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TOTAL 1047.00

CHARGE TO: Abarta Oil & Gas Co.

STREET

CITY STATE ZIP

**KCC WICHITA**

PLUG & FLOAT EQUIPMENT

	@		
<u>Weatherford Baffle Plate</u>	@		<u>148.00</u>
<u>Rubber Plug</u>	@		<u>110.00</u>
	@		
	@		

TOTAL 258.00

To Allied Cementing Co., LLC.  
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT 20% IF PAID IN 30 DAYS

PRINTED NAME Doog Budig

SIGNATURE Doog Budig

## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "ALLIED" shall mean Allied Cementing Co., LLC, and "CUSTOMER" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "Merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

—**TERMS:** Unless satisfactory credit has been established, CUSTOMER must tender full cash payment to ALLIED before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, CUSTOMER agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing, in no event shall this Contract provide for interest exceeding the maximum rate of interest that CUSTOMER may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the CUSTOMER or at the option of ALLIED, refunded directly to CUSTOMER. For purposes of this paragraph, ALLIED and CUSTOMER agree that Kansas law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

—**ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the terms of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limited to, a reasonable sum as and for attorney's fees.

—**PRICES AND TAXES:** All merchandise listed in ALLIED'S current price schedule are F.O.B. ALLIED'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by ALLIED shall be added to the quoted prices charged to CUSTOMER.

—**TOWING CHARGES:** ALLIED will make a reasonable attempt to get to and from each job site using its own equipment. Should ALLIED be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by ALLIED, will be charged to and paid by CUSTOMER.

—**PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay ALLIED for the expenses incurred by ALLIED as a result of the cancellation.

—**DEADHAUL, CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charge as set forth in ALLIED'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

### —SERVICE CONDITIONS AND LIABILITIES:

1. ALLIED carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond ALLIED'S control, ALLIED shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. CUSTOMER shall be responsible for and indemnify, defend, and hold harmless ALLIED, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with ALLIED'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of ALLIED or its employees.

2. With respect to any of ALLIED'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to ALLIED at the landing, CUSTOMER shall either recover the lost item without cost to ALLIED or reimburse ALLIED the current replacement cost of the item unless the loss or damage results from the sole negligence of ALLIED or its employees.

3. ALLIED does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

### WARRANTIES:

1. ALLIED warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. ALLIED'S obligation under this warranty is expressly limited to repair, replacement, or allowance for credit, at its option, for any merchandise which is determined by ALLIED to be defective. THIS IS THE SOLE WARRANTY OF ALLIED AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and ALLIED shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by ALLIED of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by ALLIED or any interpretation of tests, meter readings, chart information, analysis of research, or recommendations made by ALLIED, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of ALLIED or its employees in the preparation or furnishing of such facts, information or data.

(C) Work done by ALLIED shall be under the direct supervision and control of the CUSTOMER or his agent and ALLIED will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

**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 Company Inc.  
Weeks #4  
NE-SW-SE-NE; (2300' FNL & 690' FEL); Section 18-15s-13w  
Russell County, Kansas  
Page No. 1

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KCC WICHITA

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

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KCC

**Contractor:** Royal Drilling Company (Rig #1)  
**Commenced:** January 22, 2009  
**Completed:** January 28, 2009  
**Elevation:** 1796' K.B.; 1793' D.F.; 1791' G.L.  
**Casing Program:** Surface; 8 5/8" @ 784'  
Production/disposal; 5 1/2" @ 3244'  
**Samples:** Samples saved and examined 2350' to the Rotary Total Depth.  
**Drilling Time:** One (1) foot drilling time recorded and kept 2350' to the Rotary Total Depth.  
**Measurements:** All depths measured from the Kelly Bushing.  
**Drill Stem Tests:** There were two (2) Drill Stem Tests ran by Trilobite Testing Co.  
**Electric Log:** By Superior Well Service; Radiation Guard Log.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	781	+1015
Tarkio Lime	2411	-615
Elmont	2474	-678
Howard	2611	-815
Topeka	2678	-882
Heebner	2916	-1120
Toronto	2932	-1136
Douglas	2948	-1152
Lansing	2983	-1187
Base Kansas City	3228	-1432
Arbuckle	3239	-1443
Rotary Total Depth	3254	-1458
Log Total Depth	3251	-1455

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

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

**TARKIO SECTION**

2<sup>nd</sup> Tarkio Sand Sand; gray, grayish green, poorly developed, no shows.  
2377-2390'  
  
3<sup>rd</sup> Tarkio Sand Sand; gray, grayish green, very fine grained, micaceous,  
2435-2455' scattered porosity, few friable, no shows.

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**TOPEKA SECTION**

- 2678-2690' Limestone; gray, tan, finely crystalline, few fossiliferous, slightly cherty, poorly developed porosity, no shows.
- 2692-2698' Limestone; as above, fossiliferous, scattered porosity, no shows.
- 2836-2846' Limestone; finely crystalline, gray, dark gray, slightly fossiliferous, chalky, poorly developed porosity, no shows.
- 2846-2860' Limestone; gray, white, finely crystalline, few fossiliferous, poor porosity, no shows.

**TORONTO SECTION**

- 2932-2940' Limestone; white, cream, finely crystalline, chalky, poorly developed porosity, no shows.

**LANSING SECTION**

- 2983-2990' Limestone; gray, white, cream, fossiliferous, chalky, trace stain, no show of free oil or odor in fresh samples.
- 3003-3010' Limestone; cream, white, medium crystalline, dolomitic, fair brown stain and saturation, show of free oil and faint odor in fresh samples.
- 3021-3032' Limestone; white, finely crystalline, sub oomoldic, chalky, poorly developed porosity, trace stain, no show of free oil and no odor in fresh samples.

**Drill Stem Test #1 2993-3040'**

**Times: 30-30-45-60**

**Blow: Strong**

**Recovery: 55' muddy water, with oil spots  
 60' muddy water  
 125' water, trace mud**

**Pressures: ISIP 678 psi  
 FSIP 666 psi  
 IFP 27-72 psi  
 FFP 69-128 psi  
 HSH 1437-1432 psi**

- 3040-3050' Limestone; white, gray, chalky, poor visible porosity, no shows.
- 3057-3062' Limestone; white, gray, fossiliferous, oolitic, trace gray stain, no show of free oil or questionable odor.
- 3066-3074' Limestone; gray, white, oolitic, poorly developed porosity, brown and gray stain, no show of free oil and faint odor in fresh samples.
- 3076-3092' Limestone; white, cream, oomoldic, good oomoldic porosity, trace brown spotty stain, trace of free oil, odor in fresh samples.
- 3136-3144' Limestone; white, fossiliferous, oomoldic, chalky, trace stain, trace of free oil and faint to fair odor in fresh samples.

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- 3154-3164' Limestone; gray, white, oolitic, few medium crystalline, chalky, poor stain, trace of free oil and odor in fresh samples.
- 3169-3180' Limestone; as above, few sub oomoldic, chalky, trace stain, no show of free oil and faint odor.
- 3204-3210' Limestone; tan, medium crystalline, slightly fossiliferous, brown stain, trace of free oil and faint odor in fresh samples.

**ARBUCKLE SECTION**

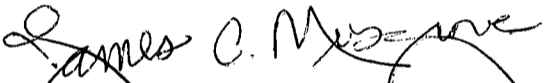
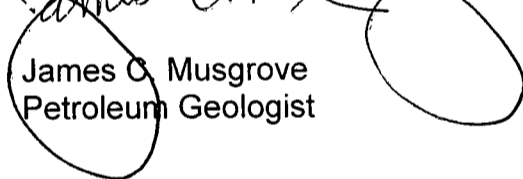
- 3239-3243' Dolomite; pink, gray, white, finely crystalline, cherty, dense.
- 3243-3251' Dolomite; cream, white, medium crystalline, scattered porosity, brown to golden brown stain, show of free oil and fair odor in fresh samples.

**Rotary Total Depth            3254 (-1458)**  
**Log Total Depth             3251 (-1455)**

**Recommendations**

On the basis of the favorable structural position and the positive results of Drill Stem Test #2, it was recommended by all parties involved to set and cement 5 ½" production casing at 3244' (seven ft. off bottom) and the Weeks #4 be completed in the Arbuckle Dolomite by "open hole" completion methods.

Respectfully submitted;

  
  
James C. Musgrove  
Petroleum Geologist

