

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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

3/30/12

OPERATOR: License # 33924
Name: ABARTA Oil & Gas Co., Inc.
Address 1: 1000 Gamma Drive, Suite 400
Address 2: _____
City: Pittsburgh State: PA Zip: 15238
Contact Person: Terri J. Moore
Phone: (412) 963-6483
CONTRACTOR: License # 33905
Name: Royal Drilling, Inc.
Wellsite Geologist: Bruce B. Ard
Purchaser: NCRA

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 #: _____

01/19/11	01/25/11	01/25/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 167-23689-0000
Spot Description: _____
SE NE SW SW Sec. 33 Twp. 15 S. R. 13 East West
977 Feet from North / South Line of Section
1,018 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Russell
Lease Name: Sellens Well #: 3
Field Name: Trapp
Producing Formation: Arbuckle
Elevation: Ground: 1904' Kelly Bushing: 1909'
Total Depth: 3450 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 906 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: 62,000 ppm Fluid volume: 600 bbls
Dewatering method used: Allow to dry and backfill
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

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.

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.

Signature: Terri J. Moore
Title: Senior Operations Analyst Date: 03/30/11

RECEIVED
KCC Office Use ONLY
 Letter of Confidentiality Received Date: 3/30/11 - 3/30/12
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: MS Date: 4-4-11

Operator Name: ABARTA Oil & Gas Co., Inc. Lease Name: Sellens Well #: 3
 Sec. 33 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction, Compensated Density/Neutron, Micro and Sonic	<input checked="" 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>Anhydrite</td> <td>876</td> <td>+1033</td> </tr> <tr> <td>Base Anhydrite</td> <td>906</td> <td>+1003</td> </tr> <tr> <td>Topeka</td> <td>2781</td> <td>-872</td> </tr> <tr> <td>Heebner</td> <td>3011</td> <td>-1102</td> </tr> <tr> <td>Toronto</td> <td>3027</td> <td>-1118</td> </tr> <tr> <td>Douglas</td> <td>3041</td> <td>-1132</td> </tr> </tbody> </table> Continued - See Attached	Name	Top	Datum	Anhydrite	876	+1033	Base Anhydrite	906	+1003	Topeka	2781	-872	Heebner	3011	-1102	Toronto	3027	-1118	Douglas	3041	-1132
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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#	906	Class A	350	3%CC 2% Gel
Production	7 7/8	5 1/2	15#	3450	Class A	150	10% Salt 2% Gel
						150	60/40 6% 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 (Amount and Kind of Material Used)	Depth

TUBING RECORD: Size: <u>2 7/8</u> Set At: <u>3432</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>N/A</u>	Gas Mcf <u>0</u> Water Bbls. _____ Gas-Oil Ratio _____ Gravity _____

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 <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3343-3450</u>
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<u>Name</u>	<u>Top</u>	<u>Datum</u>
Lansing	3083	-1174
Base Kansas City	3324	-1415
Arbuckle	3343	-1434

RECEIVED
MAR 31 2011
KCC WICHITA

ALLIED CEMENTING CO., LLC.

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

SERVICE POINT:
Get Bend

DATE <u>1-25-11</u>	SEC <u>33</u>	TWP. <u>15</u>	RANGE <u>13</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00 PM</u>	JOB FINISH <u>5:00 PM</u>
LEASE <u>8 Hrs</u>	WELL # <u>3</u>	LOCATION <u>Russell S to Coline</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		<u>6E</u>					

CONTRACTOR Royal
 TYPE OF JOB Long string
 HOLE SIZE 7 7/8 T.D.
 CASING SIZE 5 1/2 DEPTH
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 16.05
 PERFS.
 DISPLACEMENT 87.3 bbl

OWNER
 CEMENT
 AMOUNT ORDERED
150 lbs Com 10% Salt 2% Gel
150 lbs 6 3/4 6 3/4 Gel to Flo

EQUIPMENT
 PUMP TRUCK CEMENTER Bill
 # 366 HELPER Wayne
 BULK TRUCK
 # 410 DRIVER Todd TWS
 BULK TRUCK
 # 341 DRIVER CJ TWS

COMMON	<u>240</u>	@ <u>13.50</u>	<u>3240.00</u>
POZMIX	<u>60</u>	@ <u>7.55</u>	<u>453.00</u>
GEL	<u>10</u>	@ <u>20.25</u>	<u>202.50</u>
CHLORIDE		@	
ASC		@	
Flo Seal	<u>38 lbs</u>	@ <u>2.45</u>	<u>93.10</u>
SALT	<u>7</u>	@ <u>21.25</u>	<u>148.75</u>
HANDLING	<u>300</u>	@ <u>2.25</u>	<u>675.00</u>
MILEAGE	<u>SK/m/10</u>		<u>300.00</u>
TOTAL			<u>5442.35</u>

REMARKS:

Pipe wt 3431.49
Shoe 17 16
Flt Seal 3.415.00
Cent w/ 150 lb 6 3/4 un br gel 4.170.00
Follow w/ 150 lb Com 2% gel 10% salt
pump plug w/ 83.3 bbls
Land plug @ 1500 ft
25' H
15' m H

CHARGE TO: Abkota Oil & Gas
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1957.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>10</u> @ <u>7.00</u>	<u>7.00</u>
MANIFOLD		
RECEIVED MAR 3 @ 2011		
KCC WICHITA		TOTAL <u>1964.00</u>

PLUG & FLOAT EQUIPMENT

<u>2 - Basket</u>	@ <u>161.00</u>	<u>322.00</u>
<u>8 - Turbos</u>	@ <u>42.00</u>	<u>336.00</u>
<u>Plug</u>	@	<u>53.00</u>
<u>Insect</u>	@	<u>112.00</u>
<u>Guide shoe</u>	@	<u>101.00</u>
TOTAL		<u>924.00</u>

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.

PRINTED NAME _____
 SIGNATURE [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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.

ALLIED CEMENTING CO., LLC.

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

SERVICE POINT: MB

DATE <u>1-20-11</u>	SEC <u>3</u>	TWP. <u>15</u>	RANGE <u>13</u>	CALL ED OUT <u>9:00 AM</u>	ON LOCATION <u>10:00 AM</u>	JOB START <u>3:00 PM</u>	JOB FINISH <u>4:00</u>
LEASE <u>Sellers</u>	WELL # <u>3</u>	LOCATION <u>281 Hwy + Barton +</u>			COUNTY <u>Russell</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		Russell Co line <u>5 1/2 E N/S</u>					

CONTRACTOR Royal Drilling

TYPE OF JOB Surface Job

HOLE SIZE 12 1/4 T.D. 906 FT

CASING SIZE 8 1/2 DEPTH 906 FT

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 40 FT

PERFS. _____

DISPLACEMENT 5 1/4 bbl

OWNER _____

CEMENT AMOUNT ORDERED 350 pk Comm

3.7 cc 27 gal

1/4" Flo Seal

COMMON	<u>350</u>	@ <u>13.50</u>	<u>4,725.00</u>
POZMIX		@	
GEL	<u>7</u>	@ <u>20.25</u>	<u>141.75</u>
CHLORIDE	<u>12</u>	@ <u>51.50</u>	<u>618.00</u>
ASC		@	
		@	
		@	
		@	
		@	
		@	
		@	
		@	
HANDLING	<u>775</u>	@ <u>2.25</u>	<u>393.75</u>
MILEAGE	<u>SK/M/10</u>		<u>300.00</u>
TOTAL			<u>6178.30</u>

EQUIPMENT

PUMP TRUCK CEMENTER Bill L.

224 HELPER Mike

BULK TRUCK DRIVER Bob

Russell # 481 DRIVER Mark

BULK TRUCK DRIVER Mike

REMARKS:

RLS was still Drilling
run 8 1/2 pipe circulate the
Hole + then mix cement +
then Displace it down
Cement did circulate
to surface

CHARGE TO: Abarta oil + Gas

STREET _____

CITY _____ STATE _____ ZIP _____

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PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB 906 FT

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE @ _____

MILEAGE 10 @ 10 70.00

MANIFOLD RECEIVED @ _____

MAR 31 2011 @ _____

KCC WICHITA TOTAL 1061.00

PLUG & FLOAT EQUIPMENT

1-8 1/2 Belief Plate @ 67.00

1-8 1/2 Rubber Plug @ 74.00

TOTAL 141.00

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT 0 IF PAID IN 30 DAYS

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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.

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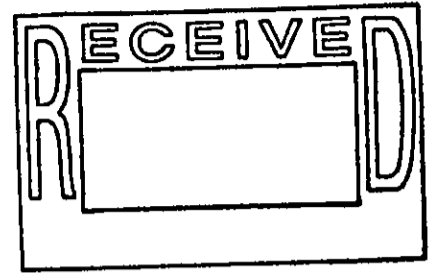
JAMES C. MUSGROVE

Petroleum Geologist
212 Main Street
P.O. Box 215
Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Abarta Oil & Gas Co. Inc.
Sellens #3
SE-NE-SW-SW (977' FSL & 1018' FWL
Section 33-15s-13w
Russell County, Kansas
Page 1



5 1/2" Production Casing Set

- Contractor:** Royal Drilling Company (rig # 1)
- Commenced:** January 19, 2011
- Completed:** January 25, 2011
- Elevation:** 1909' K.B; 1907 D.F; 1904' G.L.
- Casing program:** Surface; 8 5/8" @ 906'
Production; 5 1/2" @ 3452'
- Sample:** Samples saved and examined 2700' to the Rotary Total Depth.
- Drilling time:** One (1) foot drilling time recorded and kept 2700 ft 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.
- Electric Log:** By Superior Well Services; Dual Induction, Compensated Density/Neutron, Micro and Sonic.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	876	+1033
Base Anhydrite	906	+1003
Topeka	2781	-872
Heebner	3011	-1102
Toronto	3027	-1118
Douglas	3041	-1132
Lansing	3083	-1174
Base Kansas City	3324	-1415
Arbuckle	3343	-1434
Rotary Total Depth	3450	-1541
Log Total Depth	3452	-1543

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

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

TOPEKA SECTION

2906-2916' Limestone; gray, cream, chalky, slightly fossiliferous and oomoldic, poor visible porosity, trace dead oil stain, no show of free oil and no odor in fresh samples.

TORONTO SECTION

3027-3041' Limestone; white, light gray, finely crystalline, slightly chalky, slightly fossiliferous, poor visible porosity, trace of free oil odor when samples broken.

LANSING SECTION

- 3083-3090' Limestone; cream, gray, finely crystalline, slightly fossiliferous, poor porosity, no shows.
- 3108-3125' Limestone; cream, finely crystalline, oomoldic, brown, stain, show of free oil and good odor in fresh samples.

Drill Stem Test #1 3089-3123' (log measurements 3091-3125)

Times: 30-45-45-60

Blow: Weak

Recovery: 120' muddy water

Pressures: ISIP 662 psi
FSIP 637 psi
IFP 28-48 psi
FFP 49-71 psi
HSH ----- psi

- 3125-3135' Limestone; as above, plus white chalk.
- 3158-3166' Limestone; white, gray, chalky, scattered pinpoint porosity, brown stain, trace of free oil and fair odor in fresh samples.
- 3170-3179' Limestone; dark gray, finely crystalline, slightly fossiliferous, no shows.
- 3180-3200' Limestone; cream, finely crystalline, oomoldic, fair porosity, light brown stain, show, fair show of free oil and faint odor when samples broken.
- 3210-3230' Limestone; gray, finely crystalline, dense, slightly cherty.
- 3240-3250' Limestone; white, gray, chalky, oomoldic in part, scattered porosity, light brown stain, trace of free oil and odor in fresh samples.
- 3256-3267' Limestone; white, gray, chalky, finely crystalline, poor visible porosity, trace stain, no show of free oil and faint odor in fresh samples.
- 3274-3284' Limestone; white, cream, chalky, slightly fossiliferous, trace stain, show of free oil and faint odor in fresh samples.
- 3310-3320' Limestone; cream, gray, finely crystalline, poor visible porosity, questionable stain, no show of free oil.

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ARBUCKLE SECTION

- 3343-3352' Dolomite; white, gray, cream, medium crystalline, fair intercrystalline and vuggy type porosity, brown stain, show of free oil and strong odor in fresh samples.

Drill Stem Test #2 **3320-3350' (log measurements 3322-3352)**

Times: 30-30-30-45

Blow: Strong

**Recovery: 600' oil cut water
(40% oil, 60% water)
300' oil cut water
(20% oil, 80% water)
274' oil cut water
(5% oil, 95% water)
500' water**

**Pressures: ISIP 1092 psi
FSIP 1097 psi
IFP 118-523 psi
FFP 573-804 psi
HSH ----- psi**

3352-3360' Dolomite; as above.
3360-3370' Dolomite; cream/gray, medium and coarse crystalline, fair stain, fair to good show of free oil and fresh samples.
3370-3380' Dolomite; as above, sandy in part, glauconitic, decreasing show.
3380-3400' Dolomite; white, medium and coarse crystalline, good porosity, trace stain, trace of free oil and faint odor in fresh samples.
3400-3420' Dolomite; white, medium crystalline, slightly sandy, trace pyrite, no shows.
3420-3430' Dolomite; as above, slightly cherty.
3430-3440' Dolomite; white, sandy, trace dolomite sand, no shows.
3440-3452' Dolomite; as above, plus pyrite, no shows.

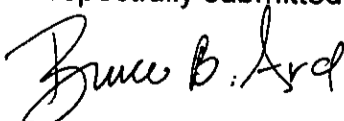
**Rotary Total Depth 3450 (-1541)
Log Total Depth 3452 (-1543)**

Recommendations:

5 1/2" production casing was set and cemented at 3452' and the following zones should be tested in the Sellens #3:

1. Arbuckle 3346-3349 perforate

Respectfully submitted;



Bruce B. Ard,
Petroleum Geologist

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