

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

3-12-10

Operator: License # 33344
Name: Quest Cherokee, LLC
Address: 211 W. 14th Street
City/State/Zip: Chanute, KS 66720
Purchaser: Bluestem Pipeline, LLC
Operator Contact Person: Jennifer R. Ammann
Phone: (620) 431-9500
Contractor: Name: TXD
License: 33837
Wellsite Geologist: Ken Recoy

CONFIDENTIAL
MAR 12 2008
KCC

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SLOW Temp. Abd.
 Gas ENHR SIGW
 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./SWD
 Plug Back Plug Back Total Depth
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Enhr.?) Docket No. _____

11-20-07	11-29-07	11-30-07
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No: 15 - 15-133-27278-0000
County: Neosho
N/2 N/2 NE Sec. 12 Twp. 28 S. R. 18 East West
330 feet from S / (N) (circle one) Line of Section
1320 feet from (E) W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
(circle one) (NE) SE NW SW
Lease Name: Wicker, Raleigh O. Well #: 12-1
Field Name: Cherokee Basin CBM
Producing Formation: Multiple
Elevation: Ground: 902 Kelly Bushing: n/a
Total Depth: 1045 Plug Back Total Depth: 1026
Amount of Surface Pipe Set and Cemented at 38 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set _____ Feet
If Alternate II completion, cement circulated from 1026
feet depth to surface w/ 150 sx cmt.

Drilling Fluid Management Plan AA II NJ 5-2709
(Data must be collected from the Reserve Pit)
Chloride content _____ ppm Fluid volume _____ bbls
Dewatering method used _____
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: Jennifer R. Ammann
Title: New Well Development Coordinator Date: 3/12/08
Subscribed and sworn to before me this 12th day of March,
2008.
Notary Public: Devo Klaueman
Date Commission Expires: 8-4-2010

TERRA KLAUMAN
Notary Public - State of Kansas
My Appt. Expires 8-4-2010

KCC Office Use ONLY

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

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 13 2008

Operator Name: Quest Cherokee, LLC Lease Name: Wicker, Raleigh O. Well #: 12-1
 Sec. 12 Twp. 28 S. R. 18 East West County: Neosho

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Submit Copy)</i> List All E. Logs Run: Compensated Density Neutron Log Dual Induction Log	<input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample Formation (Top), Depth and Datum Name Top Datum See attached
---	---

CASING RECORD <input 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"	22	38	"A"	5	
Production	7 7/8	5 1/2	15.5	1026	"A"	150	

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
4	901-904/850-852/844-846	500gal 15%HCLw/ 48bbbls 2%Kcl water, 616bbbls water w/ 2% KCL, Blockde, 5000# 20/40 sand	901-904/850-852 844-846
4	757-759/745-747/699-701/609-612	400gal 15%HCLw/ 38bbbls 2%Kcl water, 556bbbls water w/ 2% KCL, Blockde, 4800# 20/40 sand	757-759/745-747 699-701/609-612
4	506-510/495-499	400gal 15%HCLw/ 37bbbls 2%Kcl water, 651bbbls water w/ 2% KCL, Blockde, 5900# 20/40 sand	506-510/495-499

TUBING RECORD		Size <u>2-3/8"</u>	Set At <u>944</u>	Packer At <u>n/a</u>	Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. <u>2-07-08</u>		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>22.8 mcf</u>	Water Bbls. <u>94.1 bbls</u>	Gas-Oil Ratio	Gravity

Disposition of Gas Vented Sold Used on Lease *(If vented, Submit ACO-18.)*

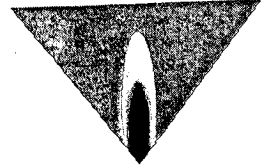
METHOD OF COMPLETION

Open Hole Perf. Dually Comp. Commingled _____
 Other (Specify) _____

Production Interval

QUEST

Resource Corporation



211 W. 14TH STREET,
CHANUTE, KS 66720
620-431-9500

CONFIDENTIAL

MAR 12 2008

KCC

TICKET NUMBER 2622

FIELD TICKET REF #

FOREMAN Joe

625250

TREATMENT REPORT & FIELD TICKET CEMENT

DATE	WELL NAME & NUMBER			SECTION	TOWNSHIP	RANGE	COUNTY
11-30-07	Wicker Raleigh 12-1			12	28	18	NO
FOREMAN / OPERATOR	TIME IN	TIME OUT	LESS LUNCH	TRUCK #	TRAILER #	TRUCK HOURS	EMPLOYEE SIGNATURE
Joe	6:30	10:45		903427		4.25	Joe P. Demchuk
Tim	6:45			903197		4	Tim
MAVERICK	7:00			903600		3.75	120
Tyler	7:00			903140	932452	3.75	
Daniel	6:45	✓		931420		4	Daniel

JOB TYPE Longstring HOLE SIZE 6 3/4 HOLE DEPTH 1041 CASING SIZE & WEIGHT 4 1/2 10.5
 CASING DEPTH 1026.06 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.2 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 0
 DISPLACEMENT 16.36 DISPLACEMENT PSI _____ MIX PSI _____ RATE 4bpm

REMARKS:

Installed cement head flow 2 SK gel & 10 bbl dye & 15K gel & 150 SKS of cement to get dye to surface. flush pump. Temp wiper plug to bottom & set float valve

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION OF SERVICES OR PRODUCT	TOTAL AMOUNT
903427	4.25 hr	Foreman Pickup	
903197	4 hr	Cement Pump Truck	
903600	3.75 hr	Bulk Truck	
1104	140 SK	Portland Cement	
1124	1	50/50 POZ Blend Cement - 3 1/2 Baffle	
1126	1	OWC Blend Cement 4 1/2 wiper plug	
1110	30 SK	Gilsonite	
1107	1.5 SK	Flo-Seal	
1118	5 SK	Premium Gel	
1215A	1 gal	KCL	
1111B	3 SK	Sodium Silicate Colchloride	
1123	7000 gal	City Water	
903140	3.75 hr	Transport Truck	
932452	3.75 hr	Transport Trailer	
931420	4 hr	80 Vac	

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 13 2008

CONSERVATION DIVISION
WICHITA, KS

CONFIDENTIAL

MAR 12 2008

TXD SERVICES

DRILLERS LOG

KCC

TXD SERVICES

RIG #	101	S.	12	T.	28	R.	18	GAS TESTS:			
API #	133-27278	County:	Neosho			250'	5 - 1/2"	14.1			
Elev.:	902'	Location:	Kansas			405'	7 - 1/2"	16.7			
						498'	7 - 1/2"	16.7			
Operator: Quest Cherokee LLC						653'	7 - 1/2"	16.7			
Address 9520 N. May Ave., Suite 300						715'	5 - 1/2"	14.1			
Oklahoma City, OK, 73120						748'	9 - 1"	77.5			
WELL #	12-1	Lease Name: Wicker, Raleigh O.				808'	3 - 3/4"	24.5			
Footage location		330 ft. from the		N line		870'	3 - 3/4"	24.5			
		1320 ft. from the		E line		932'/mississ	8 - 3/4"	40			
Drilling Contractor: TXD SERVICES LP						1040'	8 - 3/4"	40			
Spud Date: NA						Geologist:					
Date Comp: 11-29-07						Total Depth: 1040'					
Exact Spot Location N/2 N/2											
Casing Record				Rig Time							
	Surface	Production									
Size Hole	12-1/4"	6-3/4"									
Size Casing	6-5/8"	4-1/2"									
Weight	24#	10-1/2#									
Setting Depth	20'										
Type Cement											
Sacks											
WELL LOG											
Formation	Top	Btm.	Formation	Top	Btm.	Formation	Top	Btm.			
top soil	0	20	coal	492	493	coal	901	902			
shale	20	40	shale	493	495	shale	902	928			
lime	40	52	b. shale	495	498	mississippi	928	1040			
shale	52	75	shale	498	535						
sand	75	87	sand	535	600						
coal	87	88	shale	600	641						
lime	88	150	coal	641	642						
shale	150	183	shale	642	666						
coal	183	184	coal	666	667						
lime	184	190	shale	667	713						
shale	190	269	coal	713	714						
lime	269	292	shale	714	775						
shale	292	303	sand	775	786						
lime	303	306	coal	786	787						
sand	306	311	shale	787	802						
lime	311	337	coal	802	803						
shale	337	345	shale	803	833						
lime	345	391	sand	833	852						
coal	391	392	coal	852	853						
lime	392	472	shale	853	886						
coal	472	473	coal	866	867						
lime	473	492	shale	867	901						
Comments: 482' odor											

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 13 2008

CONSERVATION DIVISION
WICHITA, KS

RECEIVED TIME DEC. 10. 3:51PM

ALLIED CEMENTING CO., LLC.

AOG # 3176
34927A

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

SERVICE POINT:
Russell

DATE <u>1-15-09</u>	SEC. <u>22</u>	TWP. <u>15</u>	RANGE <u>14</u>	CALLED OUT	ON LOCATION	JOB START <u>5:00pm</u>	JOB FINISH <u>6:00pm</u>
LEASE <u>OLHS</u>	WELL # <u>4</u>	LOCATION <u>Russell S Winterset Rd 1/2w Sinto</u>			COUNTY <u>Russell</u>	STATE <u>Ks</u>	
OLD OR <input checked="" type="radio"/> NEW (Circle one)						KCC	

FEB 24 2009

CONTRACTOR Royal #1
 TYPE OF JOB Long Surface
 HOLE SIZE 12 1/4 T.D. 911
 CASING SIZE 8 5/8 23ft DEPTH 911
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT 11.00'
 CEMENT LEFT IN CSG. 11.00'
 PERFS. _____
 DISPLACEMENT 57 1/4 Bl

OWNER _____ **CONFIDENTIAL**

CEMENT
 AMOUNT ORDERED 350 Com 3% LL
2% Gel
1/4# Flo

COMMON	<u>350</u>	@	<u>13.50</u>	<u>4725.00</u>
POZMIX		@		
GEL	<u>6</u>	@	<u>20.25</u>	<u>121.50</u>
CHLORIDE	<u>12</u>	@	<u>51.50</u>	<u>618.00</u>
ASC		@		

RECEIVED
 KANSAS CORPORATION COMMISSION
 MAR 26 2009

CONSERVATION DIVISION
 WICHITA, KS

HANDLING	<u>350</u>	@	<u>2.25</u>	<u>787.50</u>
MILEAGE	<u>110/56/mile</u>			<u>300.00</u>

TOTAL 6552.00

REMARKS:

See Job Log

SERVICE

DEPTH OF JOB				
PUMP TRUCK CHARGE				<u>1441.00</u>
EXTRA FOOTAGE		@		
MILEAGE	<u>8</u>	@	<u>7.00</u>	<u>56.00</u>
MANIFOLD		@		

TOTAL 1497.00

CHARGE TO: Abarta Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

<u>1 8 5/8 Solid Plug</u>				<u>110.00</u>
<u>1 8 5/8 Baffle Plate</u>	@			<u>148.00</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 0000 IF PAID IN 30 DAYS

PRINTED NAME _____

SIGNATURE [Signature]

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 wilful 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.
Ochs #4
1360' FNL & 330' FEL (NE-SE-NE) Section 22-15s-14w
Russell County, Kansas
Page No. 1

KCC
FEB 24 2009
CONFIDENTIAL

5 1/2" Production Casing Set

Contractor: Royal Drilling Company (Rig #1)
Commenced: January 13, 2009
Completed: January 21, 2009
Elevation: 1892' K.B.; 1890' D.F.; 1887' G.L.
Casing Program: Surface; 8 5/8" @ 911'
Production/disposal; 5 1/2" @ 3400'
Samples: Samples saved and examined 2300' 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 Tests: There were two (2) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log: By Superior Well Services; Dual Induction, Compensated Density/Neutron Porosity Log and Micro Log.

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 26 2009
CONSERVATION DIVISION
WICHITA, KS

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
\ Anhydrite	899	+993
Grand Haven	2449	-557
Tarkio Lime	2519	-627
Elmont	2582	-690
Howard	2721	-829
Topeka	2791	-899
\ Heebner	3018	-1126
Toronto	3035	-1143
\ Lansing	3083	-1191
\ Base Kansas City	32889	-1397
\ Arbuckle	3325	-1433
\ Reagan Sand	3517	-1625
Quartzite	3587	-1695
Rotary Total Depth	3650	-1758
\ Log Total Depth	3649	-1757

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

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

GRANDHAVEN THROUGH WILLARD SECTION

3449-2582' There were a few Tarkio Sands encountered in the drilling of the Grand Haven through Willard Sections, but no good sand development and shows of oil and/or gas was noted (see attached Sample Log).

KCC
FEB 24 2009
CONFIDENTIAL

TOPEKA SECTION

- 2946-2954' Limestone; gray, white, finely fossiliferous, trace brown stain, no show of free oil and questionable odor in fresh samples.
- 2966-2972' Limestone; white, cream, fossiliferous, sub oomoldic, chalky in part, golden brown to dark brown stain, show of free oil and faint odor in fresh samples.
- 2980-3000' Limestone; as above, fossiliferous, trace stain, no show of free oil and questionable odor in fresh samples.

TORONTO SECTION

- 3035-3045' Limestone; white, cream, medium crystalline, slightly chalky, golden brown to brown stain, trace of free oil and questionable odor in fresh samples.

LANSING SECTION

- 3083-3090' Limestone; gray, fossiliferous, chalky, trace brown stain, no show of free and questionable odor in fresh samples.
- 3104-3108' Limestone; white, oolitic/fossiliferous, chalky, brown and golden brown stain, trace of free oil and faint odor in fresh samples.
- 3114-3120' Limestone; as above, brown and dark brown stain, show of free oil and fair odor in fresh samples.
- 3130-3140' Limestone; white, cream, chalky, poor porosity, no shows.

Drill Stem Test #1 **3092-3150'**

Times: 30-30-45-45

Blow: Weak

Recovery: 20' mud with oil spots

Pressures:

ISIP	329	psi
FSIP	395	psi
IFP	20-24	psi
FFP	21-29	psi
HSH	1515-1467	psi

RECEIVED
KANSAS CORPORATION COMMISSION
MAR 26 2009
CONSERVATION DIVISION
WICHITA, KS

- 3150-3154' Limestone; gray, fossiliferous, oolitic, trace gray stain, no show of free oil and faint odor in fresh samples.
- 3166-3170' Limestone; as above.
- 3176-3190' Limestone; white, oomoldic, fair oomoldic porosity, (barren).
- 3226-3234' Limestone; gray, white, slightly fossiliferous, chalky, trace white chalk.
- 3242-3250' Limestone; white, fossiliferous, chalky, trace brown stain, no show of free oil and questionable odor in fresh samples.

3260-3270' Limestone; as above, sub oomoldic, chalky, few oolitic, scattered porosity, brown stain, trace of free oil and faint odor in fresh samples.

MARMATON SECTION

3296-3301' Limestone; white, gray, finely crystalline, chalky, slightly oolitic, chalky, trace stain, no show of free oil and faint odor in fresh samples.

ARBUCKLE SECTION

3325-3332' Dolomite; white, cream, medium to coarse crystalline, fair to good intercrystalline porosity, brown stain, show of free oil and fair to good odor in fresh samples.

Drill Stem Test #2 3277-3333'

Times: 30-30-45-45

Blow: Strong

**Recovery: 1' clean oil
 14' oil cut muddy water
 (15% oil, 45% water, 40% mud)
 430' slightly oil cut watery mud
 (10% oil, 10% water, 80% mud)
 180' oil cut muddy water
 (20% oil, 60% water, 20% mud)
 365' very slightly oil cut muddy water**

RECEIVED
 KANSAS CORPORATION COMMISSION
 MAR 26 2009
 CONSERVATION DIVISION
 WICHITA, KS

**Pressures: ISIP 1082 psi
 FSIP 1082 psi
 IFP 42-277 psi
 FFP 282-476 psi
 HSH 1627-1563 psi**

3332-3340' Dolomite; as above.

3340-3356' Dolomite; gray, white, medium crystalline, fair porosity, brown and golden brown stain, show of free oil and fair odor in fresh samples.

3360-3390' Dolomite; white, gray, cream, medium and coarse crystalline, good intercrystalline and vuggy type porosity, brown and golden brown stain, show of free oil and fair to good odor in fresh samples.

3390-3400' Dolomite; white, cream, medium crystalline, few sandy, glauconitic, fair to good porosity, (barren).

3400-3420' Dolomite; white, pink, gray, medium crystalline, few finely crystalline, sandy, good porosity, (barren).

3420-3440' Dolomite; as above, increasingly sandy, trace white chert, no shows.

3440-3480' Dolomite; gray, tan, finely crystalline, sandy, few sucrosic, good porosity (barren).

3480-3517' Dolomite; tan, buff, finely crystalline, sucrosic, sandy, scattered porosity, no shows.

REAGAN SAND SECTION

3517-3540' Sand; white, clear, sub angular, few sub rounded, dolomitic in part, no shows.

3540-3560' Sand; as above, glauconitic, no shows.

3560-3587' Sand; as above, plus large rounded quartz grains.

QUARTZITE SECTION

3587-3610' Quartz; clear, angular, plus varied colored micas.

3610-3649' Quartz; as above, trace feldspar.

RECEIVED
KANSAS CORPORATION COMMISSION

MAR 26 2009

Rotary Total Depth 3650 (-1758)
Log Total Depth 3649 (-1757)

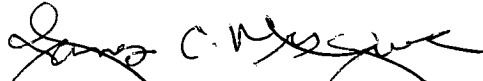
CONSERVATION DIVISION
WICHITA, KS

Recommendations

5 1/2" production/disposal casing was set and cemented at 3400' to further test the following zones:

1. Arbuckle/Reagan Sand/Quartzite 3400 ft to 3650 ft – disposal "open hole"
2. Arbuckle 3328-3330 perforate/production

Respectfully submitted;


James C. Musgrove
Petroleum Geologist

