



KANSAS CORPORATION COMMISSION 1093990
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 # 34658
Name: Arrington CJM, Inc.
Address 1: 300 Houston Ave.
Address 2: PO BOX 608
City: CANADIAN State: TX Zip: 79014 +
Contact Person: Ed Culver
Phone: (806) 323-5366
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Kurt Talbot
Purchaser: _____

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil WSW SWD SLOW
 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 #: _____

<u>04/11/2012</u>	<u>04/16/2012</u>	<u>07/06/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-063-21978-00-00
Spot Description: C SE SE SESE
SE SE Sec. 2 Twp. 14 S. R. 29 East West
660 Feet from North / South Line of Section
660 Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Powers Well #: 1-2
Field Name: Mabell NW
Producing Formation: Mississippian
Elevation: Ground: 2705 Kelly Bushing: 2716
Total Depth: 4630 Plug Back Total Depth: _____
Amount of Surface Pipe Set and Cemented at: 308 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2289 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: 2000 ppm Fluid volume: 600 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	
<input checked="" type="checkbox"/> Letter of Confidentiality Received	Date: <u>09/19/2012</u>
<input type="checkbox"/> Confidential Release Date: _____	
<input checked="" type="checkbox"/> Wireline Log Received	
<input checked="" type="checkbox"/> Geologist Report Received	
<input type="checkbox"/> UIC Distribution	
ALT <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III	Approved by: <u>NAOMI JAMES</u> Date: <u>09/24/2012</u>



1093990

Operator Name: Arrington CJM, Inc. Lease Name: Powers Well #: 1-2
 Sec. 2 Twp. 14 S. R. 29 East West County: Gove

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" 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: <small>induction/gr density neutron micolog</small>	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:60%;">Name</td> <td style="width:20%;">Top</td> <td style="width:20%;">Datum</td> </tr> <tr> <td>Heebner</td> <td>3806</td> <td>-1090</td> </tr> <tr> <td>Lansing</td> <td>3841</td> <td>-1126</td> </tr> <tr> <td>Cherokee</td> <td>4369</td> <td>-1652</td> </tr> </table>	Name	Top	Datum	Heebner	3806	-1090	Lansing	3841	-1126	Cherokee	4369	-1652
Name	Top	Datum											
Heebner	3806	-1090											
Lansing	3841	-1126											
Cherokee	4369	-1652											

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	24	308	Standard A	185	2% gel
production	7.875	5.5	15.5	4420	ASCA	635	5# gilsonite

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>	Depth

TUBING RECORD:		Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR.		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	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 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: _____ _____
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JAMES C. MUSGROVE
Petroleum Geologist
212 Main Street
P.O. Box 215
Claffin, KS 67525

Office (620) 588-4250

Res. Claffin (620) 587-3444

Arrington CJM Inc.
Powers #1-2
660' FSL & 660' FEL
(Lat. 38-86° N, Long. 100-50° W)
Section 2-14s-25w
Gove County, Kansas
Page 1

5 1/2" Production Casing Set

Contractor: Murfin Drilling Co. (Rig #2)
Commenced: April 10, 2012
Completed: April 15, 2012
Elevation: 2716' K.B; 2714' D.F; 2705' G.L.
Casing program: Surface; 8 5/8" @ 300'
Production; 5 1/2" @ 4419'
Sample: Samples saved and examined 3400' to the Rotary Total Depth.
Drilling time: One (1) foot drilling time recorded and kept 3400 ft to the Rotary Total Depth.
Measurements: All depths measured from the Kelly Bushing.
Drill Stem Tests: None.
Electric Log: By Halliburton; ACRT.

<u>Formation</u>	<u>Log Depth</u>	<u>Sub-Sea Datum</u>
Anhydrite	2165	+551
Base Anhydrite	2187	+519
Heebner	3808	-1080
Toronto	3828	-1110
Lansing	3842	-1128
Stark Shale	4081	-1385
Base Kansas City	4148	-1432
Marmaton	4178	-1480
Pawnee	4257	-1541
Ft Scott	4341	-1625
Cherokee Shale	4368	-1652
Johnson Zone	4415	-1699
Mississippian	Not penetrated	
Rotary Total Depth	4420	-1704
Log Total Depth	4390	-1674

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

Arrington CJM Inc.
Powers #1-2
660' FSL & 660' FEL
(Lat. 38-88° N, Long. 100-50° W)
Section 2-14e-25w
Gove County, Kansas
Page 2

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

TOPEKA SECTION

3578-3808' There were several zones of well-developed porosity encountered in the drilling of the Topeka Section but no show of oil and/or gas was noted.

TORONTO SECTION

3826-3840' Limestone; cream, tan, finely crystalline, chalky in part, poor visible porosity, no shows.

LANSING SECTION

3842-3856' Limestone; cream, tan, finely crystalline, loose fossil fragments, poor visible porosity (dense).
Limestone; white, cream, finely crystalline, finely oolitic, poor visible porosity, chalky in part, few cherty.

3881-3894' Limestone; white, tan, finely crystalline, finely oolitic, poor pinpoint and intercrystalline, chalky, few cherty, no shows.

3900-3910' Limestone; white, cream, oolitic, chalky, no shows.

3910-3920' Limestone; cream, tan, finely crystalline, poor developed pinpoint and intercrystalline type porosity, spotty dark brown stain, trace of free oil and very faint odor in fresh samples.

3936-3946' Limestone; white, cream, slightly dolomitic, poor intercrystalline and finely vuggy type porosity, black spotty stain, trace free oil (dead appearing) and no odor in fresh samples.

3952-3962' Limestone; white, tan, finely crystalline, visible porosity (dense).

3962-3980' Limestone; white, cream, finely crystalline, chalky, poor visible porosity, plus gray and tan chert.

3980-3990' Limestone; white, cream, chalky, poor porosity.

3993-4002' Limestone; cream, gray, finely crystalline, fossiliferous, loose fossil fragments, poor visible porosity, chalky in part.

4014-4027' Limestone; cream, white, finely crystalline, fossiliferous in part, slightly cherty, no stain, no free oil and faint odor in fresh samples.

4040-4052' Limestone; cream, white, finely crystalline, chalky, no shows.

4067-4074' Limestone; white, gray, finely crystalline, poor intercrystalline porosity, few chalky, trace light brown stain, trace of free oil and faint odor in fresh samples.

4098-4110' Limestone; cream, tan, finely crystalline, sucrosic in part, spotty light brown stain, trace of free oil and no odor in fresh samples.

Arrington CJM Inc.
Powers #1-2
660' FSL & 660' FEL
(Lat. 38-88° N, Long. 100-50° W)
Section 2-14e-25w
Gove County, Kansas
Page 3

4130-4140' Limestone; gray, cream, finely crystalline, poor porosity, plus white chert.

PAWNEE SECTION

4257-4270' Limestone; gray, white, finely crystalline, fossiliferous, poor pinpoint type porosity, chalky, questionable stain, no show of free oil and no odor in fresh samples.

4270-4300' Limestone; cream, buff, finely crystalline, poor visible porosity, trace dark brown and black stain, no free oil and no odor in fresh samples.

Limestone; white, tan, finely crystalline, dense.

MYRICK STATION SECTION

4310-4328' Limestone; gray, buff, dense, poor porosity, no shows.

ET SCOTT SECTION

4341-4360' Limestone; white, gray, finely crystalline, slightly oolitic, poor porosity, no shows.

CHEROKEE SECTION

4370-4390' Limestone; white, tan, finely crystalline, slightly oolitic, poor visible porosity, no shows.

4404-4412' Limestone; cream, tan, finely crystalline, poor visible porosity, chalky.

JOHNSON ZONE SECTION

4415-4420' Limestone; tan, gray, finely crystalline, poor visible porosity, dense.

Rotary Total Depth 4420 (-1704)
Log Total Depth 4390 (-1674)

Remarks:

Per operation recommendation, the Powers #1-2 was drilled to the Rotary Total Depth of 4420, no Mississippian Section was encountered and the well was TD in the Johnson Zone (Cherokee).

Respectfully submitted:

Kurt Talbott

Kurt Talbott
Petroleum Geologist

ARRINGTON CJM

HADAWAY CONSULTING & ENGINEERING, LLC

Casing/Cement Detail

Well Name:	POWERS #1-12			Date:	4/17/2012		
MD (ft):	4420	PV/YP	/	THDS OFF TALLY CSG DEL TO LOC			
TVD (ft):	4420	API W.L.	/	4671.05			
Hole Size (in)	7.875	Gel Strength	/	NUMBER OF JTS DEL TO LOC			
Mud Weight (ppg)	9.1	BHT (deg. F)	100	112			
Casing Detail:				JTS LEFT OUT			
				8			
				JTS RUN			
				106			
Bottom to Top							
Size (OD)	Length	No. of Jts	Weight (Lb/Ft)	Grade	Conn.	Drift	Description
5.5	4.00		15.5	J55	LTC	4.825	IR BASKET SHOE
5.5	64.41	2	15.5	J55	LTC	4.825	CSG
5.5			15.5	J65	LTC	4.825	latch ring plug at 4331'
5.5	20.18	1	15.5	J65	LTC	4.825	SHORT JT
5.5	2020.32	48	15.5	J55	LTC	4.825	CSG
5.5	2.00		15.5	J55	LTC	4.825	DV TOOL AT 2269
5.5	2293.92	55	15.5	J55	LTC	4.825	CSG SJ ONE JT DWN.
		106 TOTAL No. of Joints					
		4424.83 TOTAL PIPE RUN IN HOLE					
		4.83 LESS LANDING JT - Ft above KB					
		4420.00 TOTAL SETTING DEPTH - KB					
Centralizers/Scratchers/Other							
Type:	12 CENTS						
Placement:	EVERY 4TH JT TO 2100'						
Cementing Detail:							
Cementing Company: ALLIED							
Description	Type cmt	Sxs	Wt. (ppg)	Yield (cf/sk)			
FIRST STAGE	CLASS ASCA	210	14.50	1.57			
2ND STAGE	60/40 POZ	425	12.50	1.90			
Cement Job Details & Cement Additives							
FIRST STAGE CMT: CLASS ASCA WITH 5W/5X GILSONITE, 0.003% FL160 PLUS DEFOAMER. DISPLACED WITH 50 BBLs WTR AND THEN 50 BBLs OF MUD. BUMPED PLUG TO 2200 PSIG. DROPPED OPENING BOMB. OPEN DV TOOL. CIRC 4 HRS. CMT 2ND STAGE WITH 425 SX OF 60/40 POZ WITH 8% GEL, 0.25W/5X FLO-SEAL. DISPLACED WITH 50 BBLs WTR. BUMPED PLUG TO 1400 PSIG AND CLOSED DV TOOL AND HELD.							
BBLs: 103							
Type Fluid:	MUD AND WTR	BBLs:		50			
Weight (ppg):	8.34	Type Fluid:	WTR				
Rate (bpm):	6.00	Weight (ppg):	6.34				
Pressure (psig):	1200	Rate (bpm):	5				
Bump Plug (Y/N):	Y	Pressure (psig):	800				
w/ (psig):	2200	Bump Plug (Y/N):	Y				
Returns Throughout Job (Full, Partial, None):	FULL	w/ (psig):	1400				
Barrels Cement to Surface:	NONE	Returns Throughout Job (Full, Partial, None):	FULL				
		Barrels Cement to Surface:	4				

ARRINGTON CJM IA

HADAWAY CONSULTING & ENGINEERING, LLC

Casing/Cement Detail

Well Name: POWERS #1-12 Date: 4/11/2012

MD (ft): 308 PV/YP 0/0
 TVD (ft): 308 API W.L.
 Hole Size (in): 12.250 Gel Strength 0/0
 Mud Weight (ppg): 8.3 BHT (deg. F)

THDS OFF TALLY CSG DEL TO LOC
507.30
NUMBER OF JTS DEL TO LOC
12
JTS LEFT OUT
5
JTS RUN
7

Casing Detail:

Bottom to Top Weight

Size (OD)	Length	No of Jts	Weight (Lb/Ft)	Grade	Conn.	Drift	Description
8.625	308.00	7	24	J-55	STC	7.972	SURFACE

7 TOTAL No. of Joints
 308.00 TOTAL PIPE RUN IN HOLE
 LESS LANDING JT - Ft above KB
 308.00 TOTAL SETTING DEPTH - KB

Centralizers/Scratchers/Other

Type: 2
 Placement: FIRST ONE AND EVERY 4TH INT

Cementing Detail:
 Cementing Company: ALLIED

Description	Type cmt	Size	Wt. (ppg)	Yield (cf/sk)
LEAD	STANDARD "A"	185	15.60	1.34

Cement Job Details & Cement Additives
 USED 185 SKS CLASS A CEMENT MIXED @ 3 1/2 BBLs A MIN RELEASED PLUS STAR DISPLACEMENT @ 4 BBL A MIN DISPLACED 18.5 BBL @ 250 PSI STOP PUMP SHUT IN HEAD. RETURNED 4 BBLs CEMENT TO CELLAR. JOB WENT GOOD.
 PERFECT DISP WAS 18.5 BBLs, UNDERDISPLACED BY 1 BBL
 CMT WAS 185 SX STANDARD "A", 3% CC, 2% GE.O.25MSX POLY-E-FLAKE.
 STRAP WELDED FIRST 3 JTS AND TACK WELDED REST OF COLLARS TO SURF.

BBLs:	18.5	BBLs:	
Type Fluid:	FRESH WATER	Type Fluid:	
Weight (ppg):	8.3	Weight (ppg):	
Rate (bpm):	4.00	Rate (bpm):	
Pressure (psig):	250	Pressure (psig):	
Bump Plug (Y / N):	DID NOT BUMP	Bump Plug (Y / N):	
wt (psig):	250	wt (psig):	
Returns Throughout Job (Full, Partial, None)	FULL	Returns Throughout Job (Full, Partial, None)	
Barrels Cement to Surface	4	Barrels Cement to Surface	

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Mark Sievers, Chairman
Thomas E. Wright, Commissioner
Shari Feist Albrecht, Commissioner

Sam Brownback, Governor

September 19, 2012

Ed Culver
Arrington CJM, Inc.
300 Houston Ave.
PO BOX 608
CANADIAN, TX 79014

Re: ACO1
API 15-063-21978-00-00
Powers 1-2
SE/4 Sec.02-14S-29W
Gove County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Ed Culver

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802



Phone: 316-337-6200
Fax: 316-337-6211
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September 19, 2012

Ed Culver
Arrington CJM, Inc.
300 Houston Ave.
PO BOX 608
CANADIAN, TX 79014

Re: ACO-1
API 15-063-21978-00-00
Powers 1-2
SE/4 Sec.02-14S-29W
Gove County, Kansas

Dear Ed Culver:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 04/11/2012 and the ACO-1 was received on September 19, 2012 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department