

Kansas Corporation Commission Oil & Gas Conservation Division

1093990

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 #	API No. 15
Name:	Spot Description:
Address 1:	SecTwpS. R 🔲 East 🗌 West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from _ East / _ West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	County:
Name:	Lease Name: Well #:
Wellsite Geologist:	Field Name:
Purchaser:	Producing Formation:
Designate Type of Completion:	Elevation: Ground: Kelly Bushing:
New Well Re-Entry Workover	Total Depth: Plug Back Total Depth:
Oil WSW SWD SIOW Gas D&A ENHR SIGW OG GSW Temp. Abd. CM (Coal Bed Methane) Cathodic Other (Core, Expl., etc.):	Amount of Surface Pipe Set and Cemented at: Feet Multiple Stage Cementing Collar Used?
Operator:	
Well Name:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Conv. to GSW	Chloride content: ppm Fluid volume: bbls Dewatering method used:
Plug Back: Plug Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled Permit #:	Operator Name:
Dual Completion Permit #:	Lease Name: License #:
SWD Permit #:	Quarter Sec Twp S. R
☐ ENHR Permit #: ☐ GSW Permit #:	County: Permit #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	

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					
Letter of Confidentiality Received					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II Approved by: Date:					

Side Two



Operator Name:			Lease Name	e:			_ Well #:	
Sec Twp	S. R	East West	County:					
time tool open and clos	sed, flowing and shut s if gas to surface tes	I base of formations per in pressures, whether set, along with final chart well site report.	shut-in pressure	reached s	static level,	hydrostatic press	sures, bottom h	ole temperature, fl
Orill Stem Tests Taken (Attach Additional S		Yes No		Log	Formatio	n (Top), Depth an	d Datum	Sample
Samples Sent to Geolo		☐ Yes ☐ No	N	lame			Тор	Datum
Cores Taken Electric Log Run Electric Log Submitted (If no, Submit Copy)	I Electronically	Yes No Yes No Yes No						
List All E. Logs Run:			RECORD [Used			
	Size Hole	Report all strings set- Size Casing	-conductor, surface Weight		ate, producti Setting	on, etc. Type of	# Sacks	Type and Percen
Purpose of String	Drilled	Set (In O.D.)	Lbs. / Ft.		Depth	Cement	Used	Additives
		ADDITIONA	L OFMENTING (00115575	DECORD			
		ADDITIONA	L CEMENTING / :	SQUEEZE	RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks Used	d	Type and Percent Additives			
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:	Set At:	Packer At:	Line	r Run:	Yes No		
Date of First, Resumed I	Production, SWD or ENI	HR. Producing Me	thod:	Gas Li	ift C	Other (Explain)		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf	Water	В	bls. (Gas-Oil Ratio	Gravity
DISPOSITIO	Used on Lease	Open Hole	METHOD OF COM Perf. D	MPLETION: ually Comp omit ACO-5)	. Cor	nmingled mit ACO-4)	PRODUCTIO	ON INTERVAL:
(If vented, Sub	mit ACO-18.)	Other (Specify) _						

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (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 ½" @ 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.

None.

Measurements:

All depths measured from the Kelly Bushing.

Drill Stem Tests:

Electric Log:

By Halliburton; ACRT.

Formation Anhydrite Base Anhydrite Heebner Toronto Lansing Stark Shale Base Kansas City Marmaton Pawnee Ft Scott Cherokee Shale Johnson Zone Mississippian Rotary Total Depth	Log Depth 2165 2197 3806 3826 3842 4081 4148 4176 4257 4341 4368 4415 Not penetrated	Sub-Sea Datum +551 +519 -1090 -1110 -1126 -1365 -1432 -1460 -1541 -1625 -1652 -1699
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. 38-86° N, Long. 100-50° W) Section 2-14s-25w Gove County, Kansas Page 2

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

TOPEKA SECTION

3578-3806'

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

3826-38401

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).

3962-39801

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. 38-86° N, Long. 100-50° W) Section 2-14s-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

Limestone; white, tan, finely crystalline, dense.

MYRICK STATION SECTION

4310-4328'

Limestone; gray, buff, dense, poor porosity, no shows.

FT 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,

Rotary Total Depth

4420 (-1704)

Log Total Depth

4390 (-1674)

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;

Kut Talbott

Kurt Talbott, Petroleum Geologist

ARRINGTON CJM HADAWAY CONSULTING 8 GINEERING, LLC Casing/Cement Detail Well Name: POWERS #1-12 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 JTS LEFT OUT Casing Detail: JTS RUN 106 **Bottom to Top** Weight Size (OD) Length 4.00 No.of Jts (Lb/Ft) Grade Conn Drift Description 15.5 J55 LTC 4.825 IR BASKET SHOE 5.5 5.5 84.41 15.5 J55 LTC 4.825 CSG 15.5 J55 LTC latch ring plug at 4331' SHORT JT 4.825 5.5 20.18 15.5 LTC 4.825 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 2289 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 EVERY 4TH JT TO 2100' Placement: Cementing Detail: Cementing Company: ALLIED Yield Description Sxs Type cmt (ppg) (cf/sk) A CONTRACTOR OF THE SECOND 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 5#/SX 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 80/40 POZ WITH 8% GEL, 0.25#/ SX FLOSEAL. DISPLACED WITH 50 BBLS WTR. BUMPED PLUG TO 1400 PSIG AND CLOSED DV TOOL AND HELD. BBLS: 103 BBLS: 50 Type Fluid: MUD AND WTR Type Fluid: WTR Weight (ppg): 8.34 5.00 1200 Weight (ppg): 8.34 Rate (bpm) Pressure (psig): Pressure (psig): 80 Bump Plug (Y / N): Y W/ (psig): 144 Returns Throughout Job (Full, Partial, None) 800 Bump Plug (Y/N): w/ (psig): 2200 1400 Returns Throughout Job (Full, Partial, None)

FULL

Barrels Cement to Surface

FULL

Barrels Cement to Surface

NONE

WellEz Information Management, LLC Ver.063011rk

	ARRINGI	ON CJM IN		HAĐA	WAY CO	NSULTING & E'	'NEERING, LL	c
				Cas	ing/Cei	ment Detail		
Well Name:	POWERS	#1-12				Date	4/11/201	2
MD (ft):	308	-	PV/YP		0/0	_	THDS OFF TALL	Y CSG DEL TO LOC
TVD (ft):	308	•	API W.L.			- -	507.30	
Hole Size (in) Mud Weight (ppg)	12.250 8.3	•	Gel Stren		0/0	_	NUMBER OF JT	S DEL TO LOC
widd weight (ppg)	0.5		BHT (deg	. г <i>)</i>		-	JTS LEFT OUT	
							5	
Casing Detail:							JTS RUN	
		Bottor	n to Top				7	
		DOLLOI	Weight					
Size (OD)	Length	No.of Jts	(Lb/Ft)	Grade		Drift	Description	on
8.625	306.00	7	24	J-55	STC	7.972	SURFAC	<u>E</u>
	 		 	 				
				 	·			
				<u> </u>	<u> </u>	-		
	 	<u> </u>	TOTAL N	of loi	nte.	L		
	306.00	TOTAL PIPE			III			
		LESS LANDI	NG JT - Ft	above K	В			
	306.00	TOTAL SETT	ING DEPT	H - KB				
Centralizers/Scra	tchers/Oth	ner						
Гуре:	2							
Placement:	FIRST ONE	AND EVRY	4TH INT				·	
Companium Datail						· · · · · · · · · · · · · · · · · · ·		
Cementing Detail Cementing Compan		ALLIED						
			Ţ	Wt.	Yield			
Description		e cmt	Sxs	(ppg)	(cf/sk)			
7 C 100 S 20 T 100 S	7			n balta				
LEAD	STANC	DARD "A"	185	15.60	1.34			
			100	10.00	1.04			
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		C	ement Job	Details	& Cemen	t Additives		
USED 185 SKS CLASS) A CEMENT	Co MIXED @ 2 1/	ement Job 2 BBLS A M	Details N RELEA	& Cemen	t Additives	MENT @ 4 BBL A	MIN DISPLACED 18.5
PERFECT DISP WAS	19.5 BBLS. UI	MIXED @ 2 1/3 IN HEAD, RET NDERDISPLACE	2 BBLS A M FURNED 4 B CED BY 1 BI	IN RELEA BLS CEI	MENT TO C	STAR DISPLACE ELLAR. JOB WENT	MENT @ 4 BBL A GOOD.	MIN DISPLACED 18.5
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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/

Sam Brownback, Governor

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

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 http://kcc.ks.gov/

Sam Brownback, Governor

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

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