

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1093979

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		API No. 15 - 15-063-21977-00-00
Name: Arrington C			Spot Description:
Address 1: 300 Housto	on Ave.		SW_SW_Sec7_Twp14_SR28East
Address 2: PO BOX 6	08		
		79014 +	660 Feet from East / West Line of Section
Contact Person: Ed C	ulver	,	Footages Calculated from Nearest Outside Section Corner:
Phone: (806) 32	3-5366	•	□NE □NW □SE ☑SW
CONTRACTOR: License	g # 30606		County: Gove
Name: Murfin Drilling			Lease Name: HBFB Well #; 1-7
Wellsite Geologist: Kurt	Talbot		Field Name: Mabel L
Purchaser:			Producing Formation: Mississippian
Designate Type of Comp	letion:		Elevation: Ground: 2666 Kelly Bushing: 2677
New Well	Re-Entry	Workover	Total Depth: 4457 Plug Back Total Depth:
— Пон Пм		✓ slow	Amount of Surface Pipe Set and Cemented at: 304 Feet
Gas		☐ sigw	Multiple Stage Cementing Collar Used? ✓ Yes No
☐ og	☐ GSW	Temp. Abd.	If yes, show depth set: 2301 Feet
CM (Coal Bed Met	hane)		If Alternate II completion, cement circulated from:
Cathodic C	ther (Core, Expl., etc.):		, · · · · · · · · · · · · · · · · · · ·
If Workover/Re-entry: O	ld Well Info as follows:		feet depth to: sx cmt.
Operator:			
Well Name:			Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Original Comp. Date:	Original 1	otal Depth:	
		ENHR Conv. to SWD	Chloride content: 2000 ppm Fluid volume: 600 bbls
	Conv. t		Dewatering method used: Evaporated
Plug Back:	Piu	ig Back Total Depth	Location of fluid disposal if hauled offsite:
Commingled	Permit #:		Operator Name:
Dual Completion	Permit #:		Operator Name:
SWD	Permit #:		Lease Name: License #;
ENHR			Quarter Sec. Twp. S. R. East West
☐ GSW	Permit #:		County: Permit #:
04/26/2012	04/30/2012	07/24/2012	
Spud Date or Recompletion Date	Date Reached TD	Completion Date or 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: 09/19/2012
Confidential Release Date:
☑ Wireline Log Received
☑ Geologist Report Received
UIC Distribution
ALT I I III Approved by: NAOMI JAME: Date: 09/24/2012

Side Two

1093979

Operator Name: Arrin	<u>igton CJM, Inc.</u>			Lease	Name: _	HBFB		_ Well #: <u>1-7</u>	<u>/</u>	
Sec. 7 Twp. 14	s. r.28	East	✓ West	County	: Gove)				
INSTRUCTIONS: Sho time tool open and clos recovery, and flow rates line Logs surveyed. At	sed, flowing and shu s if gas to surface to	nt-in press est, along	ures, whether si with final chart(s	hut-in pres	sure read	ched static level,	hydrostatic pres	sures, bottom l	hole temp	erature, fluid
Drill Stem Tests Taken (Attach Additional St	heets)	□ Y	′es ☑ No			og Formation	n (Top), Depth a	nd Datum	:	Sample
·	,	Пν	′es [√]No		Nam			Тор		Datum
Samples Sent to Geological Survey Cores Taken Yes			=		Heebner			3779		102
Electric Log Run Electric Log Submitted	Electropically	 ✓ Y	✓ Yes No		Marma			4156 4341		479 664
(If no, Submit Copy)	Clectromically	<u>.</u> '	′es ✓ No							
List All E. Logs Run:										
induction/gr density neutron microlog										
			CASING	RECORD	✓ Ne	w Used				
			·	1		ermediate, producti	on, etc.		41	
Purpose of String	Size Hole Drilled		ze Casing at (In O.D.)	Wei Lbs.		Setting Depth	Type of Cement	# Sacks Used		and Percent additives
surface	12.25	8.625		24		304	class A	220 2% gel		<u> </u>
production	7.875	5.5	140000	15.5		4395	ASCA	635	5# gilsonite	
		<u> </u>					<u></u>		<u> </u>	
D		1	ADDITIONAL	CEMENT	NG / SQL	JEEZE RECORD			T	
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement	# Sacks Used Typ			Type and	e and Percent Additives		
Protect Casing Plug Back TD Plug Off Zone	<u>-</u>						··			
- Flag On Zone	-			<u> </u>						
Shots Per Foot			RD - Bridge Plug Each Interval Perl				cture, Shot, Cemer nount and Kind of M		rd	Depth
				·						
										
										
TUBING RECORD:	Size:	Set At	,	D1 .		Lines Don]
, GONTO NECOND.	OLG.	Sei Al	•	Packer A		Liner Run;	Yes No)		
Date of First, Resumed P	roduction, SWD or EN	IHR.	Producing Meth	nod:	ng 🔲	Gas Lift	ther (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat	er Bl	bis.	Gas-Oil Ratio		Gravity
DISPOSITIO	N OF GAS:			AETHOD OF	COMPLE	ETION:		PRODUCTI	ON INTER	VAL:
VentedSold	Used on Lease		_	Perf.	Dually	Comp. Con	nmingled			
(If vented, Subr	nit ACO-18.)		Other (Caralle)		(Submit)	(Subi	nit ACO-4)			

JAMES C. MUSGROVE

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

Office (620) 588-4250

Res. Claflin (620) 587-3444

Arrington CJM Inc. HBFB #1-7 660' FSL & 660' FWL Section 7-14s-28w Gove County, Kansas Page 1

5 1/2" Production Casing Set

Contractor:

Murfin Drilling Co. (Rig #2)

Commenced:

April 26, 2012

Completed:

April 30, 2012

Elevation:

2677' K.B; 2675' D.F; 2666' G.L.

Casing program: Surface; 8 5/8° @ 304' Production; 5 1/8° @ 4395'

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; Array Compensated Resistivity Log Dual Spaced Neutron Spectral Density and Micro.

Formation	Log Depth	
Anhydrite		<u>Sub-Sea Datum</u>
Base Anhydrite	2118	+559
Hesbner	2153	+524
_ :::::::::::::::::::::::::::::::::::::	3779	-1102
Toronto	3799	-1122
Lansing	3819	
Stark Shale	4057	-1142
Base Kansas City	• .	-1380
Marmaton	4113	-1438
Pawnee	4156	-1479
	4224	-1547
Ft Scott	4311	-1634
Cherokee Shale	4341	
Rotary Total Depth	4398	-1664
Log Total Depth		-1719
8 ocho!	4381	-1704

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

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

TOPEKA SECTION

There are several zones of well-developed porosity encountered in the drilling of the Topeka Section but no shows of oil and/or gas was noted. (See attached Sample Log).

Arrington CJM Inc. HBFB #1-7 660' FSL & 660' FWL Section 7-14s-28w Gove County, Kansas Page 2

IORONTO SECTION

3799-3810 Limestone; cream, tan, finely oolitic, scattered fossil fragments, poor visible porosity, no shows.

LANSING SECTION

3819-3828 Limestone; cream, tan, finely crystalline, few oolitic, plus white boney chart. 3821-3830' Limestone; cream, tan, fine and medium crystalline, few cherty, no shows. 3853-3866 Limestone; white, cream, finely crystalline, chalky, few cherty, scattered pinpoint porosity, no shows. 3873-38881 Limestone; white, cream, colitic, poor porosity, chalky, no shows. 3910-3920 Limestone; cream, tan, finely crystalline, colitic, scattered intercrystalline and vuggy type porosity, chalky in part, no shows. 3926-3940 Limestone; cream, white, finely crystalline, poor developed vuggy type porosity, chalky, no shows. 3983-39981 Limestone; cream, white and tan, finely crystalline, poorly developed porosity, trace dark brown stain, no free oil and no odor in fresh samples. 4014-4026 Limestone; white, cream, tan, finely crystalline, slightly cherty, few chalky, no shows. Limestone; white, cream, finely crystalline, poor pinpoint type porosity, spotty dark brown stain, no free oil and no odor. 4038-4049 4069-40841 Limestone; cream, gray, finely crystalline, few cherty, poor visible porosity, no shows. 4110-4121 Limestone; cream, gray, colitic, sub comoldic, poorly developed porosity, trace light brown stain, no free oil and no odor in fresh

MARMATON SECTION

4156-4166'	Limestone; tan, gray, finely crystalline, slightly chalky, dense.
4190-4199	Limestone; as above, scattered porosity, no shows.
4206-4240'	Limestone; cream, tan, finely crystalline, colitic, poor porosity,

PAWNEE SECTION

4224-4230'	Limestone; cream, tan, finely crystalline, poor pinpoint porosity, slightly dark brown and golden brown stain, trace free oil and no odor in fresh samples.
4230-4260"	Limestone; cream, tan, finely crystalline, finely colitic, poor

pinpoint type porosity, brown stain, trace of free oil and no odor in fresh samples.

samples.

Arrington CJM Inc. HBF8 #1-7 660' FSL & 660' FWL Section 7-14s-28w Gove County, Kansas Page 3

MYRICK SECTION

4284-4300'

Limestone; gray, buff, finely crystalline, few cherty, dense.

FT SCOTT SECTION

4311-4334

Limestone; tan, gray, poorly developed porosity, no shows.

CHEROKEE SECTION

4354-4366

Limestone; buff, gray, finely crystalline, dense, few cherty.

4390-4396'

Limestone; tan, buff, light gray, poorly developed porosity, no

shows.

Rotary Total Depth

Log Total Depth

4396 4381

Remarks:

Per operator recommendation, the HBFB #1-7 was drilled to the Rotary Total Depth of 4396, no Mississipplan Section was encountered and the HBFB #1-7 was TD in the Cherokee Section.

Respectfully submitted; Kunt This H

Kurt Talbott,

Petroleum Geologist

	ARRINGTON C.IM	•	HAD/	AWAY CO	WSULTING &	SINEERING, LI	.c
			Cas	ing/Ce	ment Detail	1	
Vell Name:	HBF8 #1-7				Da	te: 4/27/20	12
MD (ft): TVD (ft):	304	PV/YP		_0/0	_		LY CSG DEL TO LOC
tote Size (in)	12.250	API W.L. Gel Strei		0.00	_ =	332,22	
Wud Weight (ppg)	8.3	BHT (de		0/0	_	NUMBER OF J	S DEL TÓ LOC
		• •	•		-	JTS LEFT OUT	
Casing Detail:						1	
•						JTS RUN	
	Botto	m to Top				·	
Size (OD)	Length No.of Jts	Weight (Lb/Ft)	Grade	Conn.	.		
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						SURIF. CAS	SING
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		TOTAL N	D. Of Joi	nts	<u> </u>		
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	LESS LAND 303.00 TOTAL SET	ING JI • FI ING DEPT	apove k	. B			
entralizara/Scrat			11-142				
ype:	3						
	MIDDLE OF BOTTOM J	TATAC			<u> </u>		
ementing Detail:		103180					
ementing Company	ALLIED						
Description	Type cmt		WL.	Yield			
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LEAD	CLASS A	220	15.20	1.34			
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MENT WITH 220 SK		ment Job				000 PARK BAR	
OP PLUG DISPLACE	17.3 BBLS PERFECT DIS CEMENT BACK TO SURF. TAC WELDED COLLARS	PLACEMEN	T WAS 1	9 3 UNDER	DISPLACED BY	BBLS DISPLACE	. Diese Slurry Diese Seel amen &
RAP WELDED 3 JTS	TAC WELDED COLLARS	ACE PLUG (DOWN 9:	00pm SHU O suige	T HEAD W/ 300 P	\$1.	
		On NEO! O	- 630 1	O SOFT.			
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	etar etas sate .	20.0		3 1 Term.		-	the works by the
	BBLS: Type Fluid:	17.3 WATE				BBLS	
	Weight (ppg):	WATEI 8.3	+			Type Fluid Weight (ppg)	
	Rate (topm):	3.50				Rate (bpm):	·
	Pressure (peig):	300	Τ.			Pressure (paig):	
	Bump Plug (Y / N): w/ (psig):	PUMP PL 300	<u> </u>		Bur	npPlug(Y/N); w/(psig);	
Returns Thro	ughout Job (Full, Partial			F	latums Througho	w (psig):) out Job (Full, Part	ial, None)
	FULL						
Ban	els Cement to Surface	17	1			ment to Surface	
	Wei	Ez Informatio	m Manage	man IICV	# 053031ni		

	ARRINGTON CJM II HADAWAY COMSULTING & F "INEERING, LLC								
	Casing/Coment Detail								
Well Name:	HBF8 #1-7					Date	5/2/2012		
MD (ft):	4396		PV/YP		1		THOS OFF TALLY	CSG DEL TO LOC	
TVD (ft):	4398		API W.L.	_			4598.10		
Hote Size (in) Mud Weight (ppg)	7.875		Gel Streng				NUMBER OF JTS	DEL TO LOC	
wng sasifut (bb8)			BHT (deg.	r)			JTS LEFT OUT		
							5		
Casing Detail:							JTS RUN		
_							105		
Bottom to Top									
Size (OD)	Length	No.of Jts	Weight (Lb/Ft)	Grade	Conn.	Drift			
5.5	4.00	140.04.24	15.5	J-55	LTC	4.625	Description IR basket shoe a		
5.5	20.65	1	15.5	J-55	LTC	4.825	SHORT JT		
5.5			15.5	J-55	LTC	4.825	LATCH & PLUG	0,4371	
5.5	2068.94 3.00	49	15.5	J-55	LTC	4.825	CASING		
5.5 5.5	2299.41	55	15.5 15.5	J-55 J-65	LTC	4.825 4.825	DV TOOL @ 2	301	
		_~	13.0	U-03	2,0	4.023	CASING		
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1		TOTAL PIPE LESS LANDS							
1		TOTAL SETT			Ш				
		•	,,40 OCL 1	11 - KD					
Centralizers/Scr	atchers/Ot) er							
Туре:	12 CENTS								
Ptacement:	EVERY 4	JT UP TO 21	00					·	
Cementing Detail	II:								
Cementing Compa	ny:	ALLIED							
Description	100	oe cmt	Same	(PPG)	Yield (cf/ek)				
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BBLS BACK TO SUR	F.) (DV TOOL	. 🕢 2301)	_						
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DESCRIPTION OF THE PARTY.	" , "		1.					S FAR COLLEGE	
er consequence of children	and of the second	BBLS:			- "	· · · .	BELS	65	
		Type Fluid:					Type Fluid:	WATER	
		Weight (ppg):	8.3				Walght (ppg):	8.3	
		Rate (bpm):	6.0				Rute (bpm):		
		essure (psig):	LAND P			. n.	Pressure (paig):	\$00 VE	
	витр	Plug (Y/N): w/(peig):	150		<u> </u>	Br.	mp Plug (Y/N): w/ (paig):	YES 1800	
Returns T	hroughout A	ob (Full, Partis				Returns Through	out Job (Full, Parl		
	FL	ILL					FULL		
	Barrels Ceme	ent to Surface					ement to Surface	5	
		W	eriEz Informe	tion Mane	gement, LLC	Ver.063011rk			

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 15-063-21977-00-00 HBFB 1-7 SW/4 Sec.07-14S-28W 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 Wichito, 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 15-063-21977-00-00 HBFB 1-7 SW/4 Sec.07-14S-28W 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 04/26/2012 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