Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1239128

Form ACO-1 August 2013 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 #	GPS Location: Lat:, Long:
Name:	(e.g. xx.xxxxxx) (e.gxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
☐ Oil ☐ WSW ☐ SHOW ☐ 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:	Producing Formation: Elevation: Ground: Kelly Bushing: Feet Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No If yes, show depth set: Feet If Alternate II completion, cement circulated from: sx cmt.
Original Comp. Date: Original Total Depth: Deepening Re-perf. Conv. to ENHR Conv. to SWD Plug Back Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls Dewatering method used: Location of fluid disposal if hauled offsite: Operator Name:
GSW Permit #:	Lease Name:
Spud Date or Date Reached TD Completion Date or Recompletion Date	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					
Confidentiality Requested					
Date:					
Confidential Release Date:					
Wireline Log Received					
Geologist Report Received					
UIC Distribution					
ALT I II Approved by: Date:					

1239128	

Operator Name:				Lease I	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
open and closed, flow and flow rates if gas to	ow important tops of foing and shut-in pressu o surface test, along w	res, whe ith final c	ther shut-in pre chart(s). Attach	essure reac extra shee	hed stati et if more	c level, hydrost space is need	atic pressures, b ed.	ottom hole tempe	erature, fluid recovery	
	g, Final Logs run to ob d in LAS version 2.0 o					ngs must be em	alled to kcc-well	-logs@kcc.ks.gov	v. Digital electronic lo	
Drill Stem Tests Taken (Attach Additional S		Ye	es No		L		ion (Top), Depth	and Datum	Sample	
Samples Sent to Geol	logical Survey	☐ Ye	es 🗌 No		Name				Datum	
Cores Taken Electric Log Run		☐ Ye	es No							
List All E. Logs Run:										
		Repo	CASING ort all strings set-o	RECORD	Ne		ction, etc.			
Purpose of String	Size Hole Drilled	Siz	ze Casing t (In O.D.)	Weig	ght	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	. CEMENTII	NG / SQL	JEEZE RECORI)			
Purpose:	Depth Top Bottom	Туре	of Cement	# Sacks Used Type and Percent Additives						
Protect Casing Plug Back TD Plug Off Zone										
Does the volume of the to	ulic fracturing treatment or otal base fluid of the hydra ing treatment information	ulic fractu	uring treatment ex		•	Yes Yes Yes Yes	No (If No,	skip questions 2 an skip question 3) fill out Page Three	•	
Shots Per Foot			RD - Bridge Plug Each Interval Perl				acture, Shot, Ceme Amount and Kind of	ent Squeeze Record	d Depth	
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:	Yes 1	No		
Date of First, Resumed	Production, SWD or ENH	R.	Producing Meth	nod:	g 🗌	Gas Lift	Other (Explain)			
Estimated Production Per 24 Hours	Oil B	bls.	Gas	Mcf	Wate	er I	Bbls.	Gas-Oil Ratio	Gravity	
DISPOSITION OF GAS: M Vented Sold Used on Lease Open Hole					COMPLE Dually	Comp. Co	ommingled bmit ACO-4)	PRODUCTIO	DN INTERVAL:	
(If vented, Sub	omit ACO-18.)		Other (Specify)		(Cabillit)		- Link A00-4)			

Form	ACO1 - Well Completion
Operator	Anadarko E & P Onshore LLC
Well Name	PATTERSON D 3
Doc ID	1239128

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
3	2816-2820	150000# SAND FRAC for all intervals combined	2816-2820
3	2752-2754		2752-2754
3	2728-2730		2728-2730
3	2678-2680		2678-2680
3	2632-2635		2632-2635
3	2582-2584		2582-2584
	CIBP @ 2866' 1 SK Cement on top		2866

Form	ACO1 - Well Completion
Operator	Anadarko E & P Onshore LLC
Well Name	PATTERSON D 3
Doc ID	1239128

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	_	Type Of Cement	Type and Percent Additives

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test		0.1.2		(See Inst	tructions of Reve	erse Side)				Form C	
X	Open Flor	W		•						(Rev: 8	W98)
	Deliverab	ility		Test Date:	12/15/14		API No. 15-	151892143	32		
Company		1			Lease					Well Number	
ANADARKO	EXP DU				PATTERS	ON				D-3	
County STEVENS		Location	4401 5141		Section		TWP		RNGE (E/W)	A	cres Attributed
Field		1250' FNL 1	Reservoir		28		33 S Gas Gathering C	annoction	37 W		640
CHASE			CHASE				Gas Gathering C	Anadarko	Gatherin	a	
Completion Date	Plug Back Total Depth Packer Set at										
11/24/14		2866 NA									
Casing Size			Weight		Interenal Diam	eter	Set at		Perforations	То)
5.5 Tubing Size			14		4.95		3151				
2.375			Weight 4.7		Interenal Diam 1.995		Set at 2821		Perforations 2582	то 2820	
Type Completion (I	Describe)		7.1	Type Fluid Pro			Pump Unit or Tra	avelina Plunae		Yes / No	
1. Single	,			WATER			PUMPING UN			PUMP	
Producing Thru (Ar	nnulus / Casin	g)		% Carbon Dio	xide		% Nitrogen		Gas Gravity -	G _g	
CSG				0.065			18.0617		0.717		
Vertical Depth (H)				Pressure Taps	3		(Meter Run)		(PROVER)	Size	
2701 Pressure Buildup:		Chutin	10/10/14	Flange 10:00 AM		(A.B.4) (D.B.4)	X	40/45/44	10.00 414	3	
Well on Line:		Shut in Started	12/12/14 12/15/14			(AM)(PM) (AM)(PM)	Taken Taken		10:00 AM 10:00 AM		(AM)(PM) (AM)(PM)
		3,11,100	12/10/1	. 10.007		(/)(1 141)		12/10/1	10.007 1111		(7 101)(1 101)
				OBSE	RVED SURF	ACE DATA		Duration of Shu	ıt-in	72	Hours
		Circle One:	Pressure			С	asing	Tut	ping		Liquid
Static /	Orifice	Meter or	Differential	Flowing	Well Head	B 6 000000000	ad Pressure	VACATA (1981) (1981) (1981) (1981)	Pressure	Duration	Produced
Dynamic Property	Size inches	Prover Pressure psig	in (h) Inches H ₂ O	Temperature t	Temperature t	psig	(P _t) or (P _c) psia	(P _w) or (F	P _t) or (P _c)	(Hours)	(Barrels)
Shut-In	mones	paig	mones ri ₂ O		,	15.5	29.9	PUMP	psia	72	
Flow	1.000	-6.5	18	39	39	10	24.4	PUMP	,		WTR 29.2
		0.0						1 01111			10011120.2
			***************************************	FLO	N STREAM	ATTRIBUTES	5				
Plate Coefficient		cle One: eter or	Pressure Extension	Crovity	Flowing	Doviction	Motored Flow		ND.		wing
(F _b) (F _p)		r Pressure	Sqrt	Gravity Factor	Temperature Factor	Deviation Factor	Metered Flow R	GOR (Cubic Feet/		Flu	avity
Mcfd	00.2 00.0000000000000000000000000000000	psia	((Pm)(Hw))	F _g	F _{ft}	F _{pv}	(Mcfd)	Barrel)			S _m
4.912		7.9	11.925	1.181	1.021	1.000	71	(0.0	
					L						
			(OP	EN FLOW) (DELIVERAB	SILITY) CALC	ULATIONS			(P _w) ² =0.207	
$(P_c)^2 =$	0.894	$(P_{w})^{2} =$	0.595	P _d =		%	(P _c -14.4)+14.4=			$(P_d)^2 = $	
		Choose fomula 1 or 2:	LOG of		Backpres	sure Curve				Open	Flow
$(P_c)^2 - (P_a)^2$		1. P _c ² -P _a ²	formula			e = "n"					rability
or	$(P_c)^2 - (P_w)^2$	2. P _c ² -P _d ²	1. or 2.	$(P_c^2 - P_w^2)$	(or	n x LO	G()	Antilog	Equals R	x Antilog
$(P_c)^2 - (P_d)^2$		divided by	and divide		Ass	igned				Mo	cfd
		$P_c^2 - P_w^2$	by:			rd Slope					
0.687	0.299	2.298	0.3	361	0.8	350	0.30)7	2.027	14	44
					-						
Open Flow		144	Mcfd @ 14.6	65 neia	Deliverabilit	hv		Mcfd @ 14.	65 peia		
Open now		177	Wicia @ 14.	oo psia	Deliverabilit	ıy		IVICIO W 14.	oo psia		
The undersign	ned authority	y, on behalf of t	he Company	, states that	he is duly au	thorized to m	ake the above	report and tl	nat he has k	nowledge	
of the facts state	ed therein, a	and that said re	oort is true a	nd correct. I	Executed this	the 23rd da	y of September	2014			
								the	-21	valel	_
	Witness (if	any)							For Compa	wall	
	For Commi	ssion							Checked by		
										/	

exempt status under and that the foregoing the best of my know tion and/or of type of	er Rule K.A.R. 82-3-30 ing information and st wledge and belief bas completion or upon us est a permanent exer unds that said well:	under the laws of the state of Kansas that I am autl 04 on behalf of the operator tatements contained on this application form are true and correct to ed upon gas production records and records of equipment installa- se of the gas well herin named. mption form open flow testing for the
	is on vacuume at the	
Date:		

Instructions All active gas wells must have at least on original G-2 form on file with the conservation division. If a gas well meets the eligibility criteria set out in KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to obtain a testing exemption.

At some point during the succeeding calender year, wellhead shut-in pressure shall be measured after a minimum of 24 hours shut-in/buildup time and shall be reported on the front side of this form under "observed surface data." Shut-in pressure shall therafter be reported yearley in the same manner.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.