Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:				(See Instruc	ctions on Re	verse Side)					
Open Flow			Took Date	Test Date:			A DI	No. 15						
✓ Deliverabilty			9/29/15) .				00-00						
Company		PER	ATING CO	MPANY, LL	<u> </u>		Lease LOGAN	l		-	3 X	Well Numbe	er	
County BARBER			Location S/2 N/2 NE		Section 19			TWP 34 S		RNG (E/W) 11 W		Acres Attributed		
Field STRANATHAN						Reservoir MISSISSIPPI		Gas Gathering (ATLAS		hering Conn	ection			
Completion Date 7/3/07					Plug Bac 4957	k Total Dep	oth		Packer Set at NONE					
Casing Size 4.500			Weigh 10.50		Internal I 4.052	Internal Diameter 4.052		Set at 4895		Perforations 4554		то 4564		
Tubing Si 2.375	Tubing Size 2.375		Weigh 4.70	t	Internal Di 1.995		neter Set at 4595		Perforations OPEN		То	-		
Type Con SINGLE		ı (De	escribe)			d Productio R / OIL	n		Pump Un PUMP	it or Traveling ING	Plunger? Yes	/ No		
Producing ANNUL		(Anr	nulus / Tubine	3)	% C	arbon Diox	ide		% Nitrog	en	Gas Gr	avity - G _o		
Vertical D 4559	epth(H)				Pres	ssure Taps			<u> </u>	(Meter	Run) (Prove	r) Size	
Pressure	Buildu	p: :	Shut in <u>9/2</u>	9/15	20 at		. (AM) (PM)	Taken_9/	30/15	20	at	(AM)	(PM)	
Well on L	ine:	;	Started		20 at		. (AM) (PM)	Taken		20	at	(AM)	(PM)	
						OBSERVE	ED SURFAC	E DATA	_		Duration of Shut-	in	Hours	
Static / Dynamic Property	nic Size		Circle one: Meter Prover Presst		Temperature	Well Head Temperature	I Wallhood Drooming		Tubing Wellhead Pressure (P_w) or (P_s) or (P_c)		Duration (Hours)		Liquid Produced (Barrels)	
Shut-In	• • •		psig (Pm)	Inches H ₂ 0	<u>' </u>			psia	psig psia		24			
Flow											_			
						FLOW ST	REAM ATTR	IBUTES						
Plate Coeffiecient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press Extension ✓ P _m x h	Extension Fact		or Temperature		iation ctor : Pv	Metered Flow R (Mcfd)	y GOR (Cubic Fe Barrel)	et/	lowing Fluid Aravity G _m	
											ļ			
(P _c) ² =			(P _w) ² =		•		/ERABILITY % (i) CALCUL P _c - 14.4) +				²= 0.207 ²=		
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P _a) ² - (P _w) ²		Choose formula 1 or $ \begin{array}{cccc} 1. & P_c^2 - P_a^2 \\ 2. & P_c^2 - P_d^2 \end{array} $ divided by: $P_c^2 - P_c^2$	LOG of formula 1. or 2.	P _c ² - P _w ²	Backpress Slope		n x I	Г٦	Antilog	Open Flow		
									-					
O Flo				Marki @ 1	4.05		Deliversh	.1178				<u> </u> :-		
Open Flov			4 *	Mcfd @ 14			Deliverat	-			Mcfd @ 14.65 ps			
		-	-	n behalt of the aid report is tr	• •		•			e above repo	rt and that he ha	is knowledg		
					KANSAS	Receiv CORPORATIO	ve d ON COMMISSIC	-1	10	Valla	Q			
			Witness (i	(any)						For	ompany			
			For Comm	ission		JCT_1-6	ZUID -			Che	cked by			

CONSERVATION DIVISION WICHITA, KS

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to exempt status under Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO, LL	-
and that the foregoing pressure information and statements contained on this application form are to correct to the best of my knowledge and belief based upon available production summaries and lease of equipment installation and/or upon type of completion or upon use being made of the gas well herein I hereby request a one-year exemption from open flow testing for the LOGAN 3-X gas well on the grounds that said well:	true and records
(Check one) is a coalbed methane producer is cycled on plunger lift due to water is a source of natural gas for injection into an oil reservoir undergoing ER is on vacuum at the present time; KCC approval Docket No. is not capable of producing at a daily rate in excess of 250 mcf/D I further agree to supply to the best of my ability any and all supporting documents deemed by Costaff as necessary to corroborate this claim for exemption from testing.	- ommission
Date: 10/1/15	
Signature: Min L Hallagha Title: FIELD MGR.	

Instructions:

If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 thereafter be reported yearly in the same manner for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption IS denied.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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