KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t:					(See Instruct	tions on Re	everse Side))					
Ор	en Flo	w				Test Date) !			API	No. 15				
✓ De	liverat	oilty				11/13/2					5-20717- <i>04</i>	000			_
Company Shawm		1 & C	as Co. Ir	ıc.				Lease W.R. C	Carpente	r		2	Well N	umber	
County MN						Section 16		тwр 19		RNG (E/W) 5E			Acres Attributed 160(320 UNIT)		-
Field ANTELOPE						Reservoir MISSISSIPPI CHAT				Gas Gathering Connection SHAWMAR OIL-ANTELOR			PLANT	RE	CEIVEL
Completion Date 1/31/1981						Plug Back Total Depth				Packer Set at N/A					
Casing Size Weight 5-1/2				Internal E	Diameter	Set at		Perforations 2182		To 2232		KCC	2 9 20		
Tubing Size Weight 2-3/8					Internal D	Diameter	Set at 2180		Perforations		To NC		KCC (MCHI.	
	Type Completion (Describe)						Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No				
	-	(Anr	nulus / Tubin	ıg)	**************************************	% Carbon Dioxide 0.112							ravity -	G,	
Vertical D						O. 112 Pressure Taps				11.130	<u>-</u>	.720 (Meter	Run) (F	rover) Size	•
2300		•						250 X 5	i0"			•	7 X .62		
Pressure	Buildu	ıp:	Shut in	/13	2	0 12 at 10	0:00 am	(AM) (PM)	Taken 11	/13	20	12 at 10:00	am	(AM) (PM)	,
Well on L			Started 11/	14	2	0 12 at 10						12 at 10:00		(AM) (PM)	
							OBSERVE	D SURFAC	E DATA	1		Duration of Shut		Hours	; 1
Static / Dynamic Property	Siz	Orifice Circle one Size Meter nches) Prover Pres psig (Pm			Pressure Differential in Inches H ₂ 0	Flowing Temperature t	Temperature (P _w) o		sing I Pressure P _t) or (P _c)	Welihe (P _w) or	Tubing ad Pressure r (P _c) or (P _c)	Duration Lie (Hours)		id Produced (Barrels)	
Shut-In	.625			0		60	60	150	psia	150	psia	24			
Flow .62		5 30		5"		60	60	125		70		24			
							FLOW STR	EAM ATT	RIBUTES	 1		<u> </u>		1 1	1
Plate Coefficcient (F _b) (F _p) Mcfd		Pro	Circle one: Meter or Prover Pressure psia		Press Grav Extension Fac √P _m xh F		tor Temperature		Fa	Deviation Factor F _{pv}		W GOR (Cubic Fo Barrel	eet/	Flowing Fluid Gravity G _m	
					····	(OPEN EL (OW) (DELIV	FRARII ITY	V) CAL CUI	ATIONS					
(P _c)² =		:	(P _w) ² =	=	:	P _d =			P _c - 14.4) +		:	(P _s (P _s) ² = 0.2) ² =	207	
(P _c) ² + (I or (P _c) ² - (I	P _d) ²	(P _e) ² · (P _w) ²		Choose formula 1 or 2: 1. P _c ² - P _d ² 2. P _c ² - P _d ² divided by: P _c ² - P _d ²		LOG of formula 1. or 2. and divide p 2. p 2		Backpressure Curve Slope = "n" Assigned Standard Slope		1		Antilog	O De	Open Flow Deliverability Equals R x Antilog (Mcfd)	
				J. 1101											
							· · · · · · · · · · · · · · · · · · ·								
Open Flo	w				Mcfd @ 14.	65 psia		Delivera	bility			Mcfd @ 14.65 ps	sia		•
		•	authority, o					-	authorized t	o make the	N∂√	ort and that he h	as knov	viedge of 20	
			Witness	(if any	r)				Ka	legtr	// Aug	Company		, varevir	
VILLE			ForCom	missio	ın						Chec	cked by			-

KCC WICHITA

I declare under penalty of perjury under the laws of the state of Kansas that I am authorized to request exempt status under Rule K.A.R. 82-3-304 on behalf of the operator SHAWMAR OIL & GAS CO. INC. and that the foregoing pressure information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon available production summaries and lease records of equipment installation and/or upon type of completion or upon use being made of the gas well herein named. I hereby request a one-year exemption from open flow testing for the W.R. Carpenter *2 gas well on the grounds that said well: (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 Commission staff as necessary to corroborate this claim for exemption from testing. Date: NOV 26,2012 Signature: Soulle

Title: Viu Pres

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.