## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:					(See Instruc	tions on Rev	erse Side	)					
Op	en Flo	W			Test Dat	٥.			ΔΡΙ	No. 15				
☐ De	liverab	ilty			10/7/14					033-21457-0	00-00			
Company WOOLSEY OPERATING COMPANY, LLC						Lease McMORAN A G.			.U. 4			Well Number		
County Location COMANCHE E2 SW NW				Section 17			TWP RNG (E/W) 35S 16W			Acres Attributed				
Field YELLOV	VSTO	NE I	NORTH		Reservoi MISSIS					hering Conn	ection D SERVICES			
Completic	on Dat	е			Plug Bad 5657	k Total Dept	h		Packer S	Set at				
Casing S 4.500	ize		Weigh 10.50		Internal   4.052	Diameter	Set at 5657		Perfo	rations 8	то 5527		_	
Tubing Si	ize		Weigh 4.70		Internal I 1.995	Diameter	Set at 5542			rations	To		<del></del>	
Type Con		n (De				id Production				nit or Traveling	Plunger? Yes	/ No		
Producing	g Thru	(Anr	nulus / Tubin	9)		Carbon Dioxi	de		% Nitrog		Gas Gr	avity - (	€,	
ANNUL Vertical D		1)				Pres	sure Taps				(Meter F	Run) (P	rover) Size	
5462		,											, 0.20	
Pressure	Buildu	p: 3	Shut in10/	6/14	20 at		(AM) (PM)	Taken_10	)/7/14	20	at	(	AM) (PM)	
Well on L	ine:		Started		20 at		(AM) (PM)	Taken		20	at	(	AM) (PM)	
						OBSERVE	D SURFACE	DATA			Duration of Shut-	in	Hours	
Static / Dynamic	Orifi Siz		Circle one: Meter Prover Pressi	Pressure Differential in	Flowing Temperature	Well Head Temperature	Casir Wellhead P	ressure	Wellhe	Tubing ad Pressure	Duration (Hours)		d Produced Barrels)	
Property	(inch	es) ı	psig (Pm)	Inches H <sub>2</sub> 0	t	t	(P <sub>w</sub> ) or (P <sub>t</sub> )	psia	psig	r (P <sub>r</sub> ) or (P <sub>c</sub> )	(rious)			
Shut-In							110		190		24			
Flow														
						FLOW STR	EAM ATTRIE	BUTES						
Plate Coeffied (F <sub>b</sub> ) (F Mcfd	ient ,)		Circle one: Meter or ver Pressure psia	Press Extension ✓ P <sub>m</sub> x h	Gra Fac	tor 1	Flowing emperature Factor F <sub>rt</sub>	Fa	ation ctor : pv	Metered Flov R (Mcfd)	y GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>	
				•										
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P )	²= 0.2	 07	
(P <sub>c</sub> ) <sup>2</sup> =		<u>-:</u>	(P <sub>w</sub> ) <sup>2</sup> =	:	P <sub>d</sub> =		6 (Р <sub>с</sub>	- 14.4) +	14.4 =	<u>:</u>	(P <sub>d</sub> ):			
(P <sub>c</sub> ) <sup>2</sup> - (F or (P <sub>c</sub> ) <sup>2</sup> - (F		(P	c)2- (P <sub>w</sub> )2	Choose formula 1 or  1. P <sub>c</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> • P <sub>w</sub> <sup>2</sup>	Slope 	eure Curve = "n" or gned	nx	roe	Antilog	De! Equals	en Flow verability R x Antilog (Mcfd)	
<del> </del>	_	_		divided by: $P_c^2 - P_c$	by:	<u> </u>	Standa	d Slope				<del>                                     </del>		
										- <u>-</u> -				
Open Flow		Mcfd @ 14.65			.65 psia	5 psia		Deliverability			Mcfd @ 14.65 psi	cfd @ 14.65 psia		
The u	unders	gned	I authority, o	n behalf of the	е Сотрапу, :	states that h	e is duly aut	horized to	make th	ne above repo	rt and that he ha	s know	ledge of	
the facts s	tated t	nerei	n, and that sa	aid report is tru	e and correc	t. Executed				CTOBER		·	<sub>20</sub> <u>14</u> .	
			Witness (	f any)	KA	Rec	eived ATION COMMIS	Wn	. L	Nalla	mpany			
								DIUN						
			For Comm	ission		DEC 3	1 2014			Chec	cked by			

CONSERVATION DIVISION WICHITA, KS

exempt status und and that the foregorect to the best of equipment insta I hereby requi	er penalty of perjury under the laws of the state of Kansas that I am authorized to request der Rule K.A.R. 82-3-304 on behalf of the operator WOOLSEY OPERATING CO., LLC going pressure information and statements contained on this application form are true and tof my knowledge and belief based upon available production summaries and lease records allation and/or upon type of completion or upon use being made of the gas well herein named. Lest a one-year exemption from open flow testing for the McMORAN A-4 ounds that said well:
_	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 to supply to the best of my ability any and all supporting documents deemed by Commission to corroborate this claim for exemption from testing.
Date: 10/27/14	Signature: Wallay L.  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.