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

Type Test	t:				(	See Instruct	ions on Rev	verse Side,	)					
Ор	en Flo	w			Took Date				ADI	No. 15				
De	liverab	ilty		•	Test Date 11-28-1					133-01000-0	01			
Company Empire Energy E & P						Lease Bryant			Well Number					
County Comanche		Location SW SW S					TWP 33		RNG (E/W) 17W			Acres Attributed		
Field Beals				Reservoir Stotler			Gas Gathering Connect Empire Energy E & P							
Completion Dat 6/12/84		<del></del>			Plug Back Total De 3350		h Packer NA		Packer S NA	et at				
Casing Size 4.5		Weight 10.5#			Internal Diame 4.052"		eter Set at 3789'		Perforations 3333'		то 3341'			
Tubing Size			Weight		Internal Dia				Perforations		То			
2.375			4.70#		1.995"		3336	o'	NA	· + P	NA NA	/ NI		
	Hole/	Per	foration/Pag		Dry Ga				No	it or Traveling				
Producing Tubing	g <b>T</b> hru	(Anı	nulus / Tubing)		% C	arbon Dioxi	de		% Nitroge	∍n	Gas Gra	avity - G <sub>g</sub>		
Vertical D	epth(F	1)				Pres	sure Taps				(Meter F	Run) (Prover) S	iize	
Pressure	Buildu	p:	Shut in	7 2	0_12_at_1	0:14 AM	(AM) (PM)	Taken_11	/28	20	12 at 10:15	AM_ (AM) (PI	—— М)	
Well on L	.ine:		Started	2	0 at		(AM) (PM)	Taken		20	at	(AM) (Pi	M)	
				.,		OBSERVE	D SURFACI	E DATA			Duration of Shut-	<sub>in_24</sub>	lours	
Static / Dynamic Property	Orifi Siz (inch	e	Circle one: Meter Prover Pressur psig (Pm)	Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Cas Wellhead (P <sub>w</sub> ) or (P	Pressure	Wellhea	ubing ad Pressure (P <sub>1</sub> ) or (P <sub>c</sub> )	Duration (Hours)	Liquid Produc (Barrels)	M) Hours ced	
Shut-In				-			paig	paid	30#	pola				
Flow	•													
						FLOW STR	EAM ATTR	IBUTES	1				$\neg$	
Plate Coeffiec (F <sub>b</sub> ) (F Mcfd	ient	Pro	Circle one:  Meter or  over Pressure  psia	Press Extension √ P <sub>m</sub> xh	Grav Fac F,	tor 7	Flowing Femperature Factor F <sub>fr</sub>	Fa	lation ctor : pv	Metered Flow R (Mcfd)	GOR (Cubic Fe Barrel)	Flowi Fluid Gravi G <sub>m</sub>	d ity	
			1		(ODEN EL	OW) /DEL IV	EDADII ITV	SAL CILL	ATIONS					
(P <sub>c</sub> ) <sup>2</sup> =		:	(P <sub>w</sub> ) <sup>2</sup> =_	:	P <sub>d</sub> =		W) (DELIVERABILITY) CALCULATIONS% (P_c - 14.4) + 14.4 =:				$(P_a)^2 = 0.207$ $(P_d)^2 = $			
(P <sub>c</sub> ) <sup>2</sup> ⋅ (I or (P <sub>c</sub> ) <sup>2</sup> ⋅ (I	.	(F	P <sub>o</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	hoose formula 1 or 2 1. $P_c^2 - P_a^2$ 2. $P_c^2 - P_d^2$ vided by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide		Backpre: Slop As:	ssure Curve be = "n" - or signed ard Slope	n x l	.og [ ]	Antilog	Open Flow Deliverabilit Equals R x An (Mcfd)	ty	
0 =								***						
Open Flor	w			Mcfd @ 14.	65 psia		Deliverab	ility		Г	Mcfd @ 14.65 psi	a	—	
			d authority, on								t and that he ha	s knowledge o , <sub>20</sub> <u>13</u>	.f 	
			Witness (if	any)		OCT (	0 <b>2</b> 2013	- Gur	n sta	uthing	ompany			
			For Commis	sion			ATION DIVISION			Chec	ked by			

	clare under penalty of perjury under the laws of the state of Kansas that I am authorized to request status under Rule K.A.R. 82-3-304 on behalf of the operator Empire Energy E & P
	t the foregoing pressure information and statements contained on this application form are true and
orrect	to the best of my knowledge and belief based upon available production summaries and lease records
	ment installation and/or upon type of completion or upon use being made of the gas well herein named.
l he	reby request a one-year exemption from open flow testing for the Bryant #2
jas we	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
l fu	ther agree to supply to the best of my ability any and all supporting documents deemed by Commissio
staff as	necessary to corroborate this claim for exemption from testing.
)ate: S	/27/2013
, a.o	-
	,
	Signature: Lim Jarthing
	Title: Operations Manager

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 wells. The pression signed and dated on the front side as though it was a verified report of annual test results.

OCT 0 2 2013