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

Type Test	t:				(	See Instruc	tions on Rev	erse Side	)				
Open Flow Deliverabilty				Test Date: 02/12/2015 - 02/13/2015				API No. 15 15-047-21,229 <b> 6000</b>					
Company F.G. Holl Company, LLC					Lease LUNZ "A"				Well Number 4-21				
County Location Edwards SE SE NW			Section 21		TWP 24S		RNG (E/W) 16W		Acres Attributed		ttributed		
Field Embry				Reservoir Kinderh	ook - Miss	issippi		Gas Gathering Co Semgas Gatheri			-	-1	
Completion 12/18/19		)			Plug Bac	k Total Dep	th		Packer 9 None	Set at			
Casing Size Weight 4-1/2" 10.5#				Internal D	iameter	Set at 4416'		Perforations 4271' - 4330'		То		· •	
Tubing Size Weight 2-3/8" 4.7#				Internal D	iameter	Set at 4262.06'		Perforations		То			
Type Completion (Describe) Gas (Single)				Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No Pumping Unit					
Producing Thru (Annulus / Tubing) Tubing				% Carbon Dioxide				% Nitrogen		Gas Gravity - G <sub>p</sub>			
Vertical D	Depth(H	)		-		Pres Flan	sure Taps ae				(Meter F 2"	Run) (Pi	over) Size
Pressure	Buildup	o: Shut in _	02/12	2/2	0_15 at 8		(AM) (PM)	Taken_02	2/12/	20	15 at 8:00	(	AM) (PM)
Well on Line:		Started _	)2/13	<u>/</u>	0 15 at 8	00	(AM) (PM)	Taken 02	2/13/	20	15 at 8:00	(	AM) (PM)
						OBSERVE	D SURFACE	DATA			Duration of Shut-	n_24	Hours
Static / Dynamic Property	Orific Size (inche	Meter Prover Pressur		Pressure Differential in Inches H <sub>2</sub> 0	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)	
Shut-In		Poist				-	psig 74	psia	O psig	psia			
Flow							60		0				
						FLOW STF	REAM ATTRI	BUTES					
Plate Coeffieclent (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd		Circle one: Meter or Prover Pressure psia		Press Grav Extension Fact  ✓ P <sub>m</sub> x h F <sub>g</sub>		or	Flowing Temperature Factor F <sub>ft</sub>	rature Factor		Metered Flor R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>
(P <sub>c</sub> ) <sup>2</sup> =		; (P	)² =	:	(OPEN FLO	• •	<b>'ERABILITY)</b> % (P	CALCUL - 14.4) +		;	(P <sub>a</sub> ); (P <sub>d</sub> );	e 0.2	07
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$		(P <sub>0</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>		nose formule 1 or 2. 1. $P_c^2 - P_n^2$ 2. $P_c^2 - P_d^2$ ded by: $P_c^2 - P_w^2$	LOG of formula 1. or 2. and divide	P <sub>c</sub> <sup>2</sup> -P <sub>*</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope		n x LOG		Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)	
Open Flo	w		1	Mcfd @ 14.	65 psia		Deliverabi	lity			Mcfd @ 14.65 psi	a	
The	undersi	gned authority	y, on b	ehalf of the	Company, s	tates that h	ne is duly au	thorized t	o make tl	ne above repo	ort and that he ha	s know	ledge of
the facts s	stated th	erein, and tha	at said	report is true	and correc				day of F	ebruary	oveness Mpanje		<sub>20</sub> <u>15</u> .
		Witn	ess (if an	iy)			WICH		· · · · · · · · · · · · · · · · · · ·		Company		
	·	For C	Commissi	on			18 2015			Che	cked by		· · · · · · · · · · · · · · · · · · ·
						RE	CEIVED	)					

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 F.G. Holl Company, LLC 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 LUNZ "A" 4-24 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.	n
Date: 02/17/2015  KCC WICHITA Signature: Loveness Mpanje  FEB 1 8 2015  RECEIVED	

## 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.