## Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	::				1	(See Instruct	tions on Rev	erse Side)	1					
Open Flow				~ . 5 .	Total Bodge				N. 45					
✓ Deliverabilty				Test Date: 2/20/2014-2/21/2014				API No. 15 15-047-20,132 <b>- 0000</b>						
Company F.G. Holl Company, L.L.C.						Lease LUNZ						Well Number 2-21		
County Location Edwards C E/2				Section 21				RNG (E.	<b>/</b> W)	,	Acres Attributed			
Field				-	Reservoir			Gas Gathering Connection						
Embry (Multipay)				Mississ	<del></del>			Semg	as Gatherii					
Completic 06/26/1		9			Plug Back	Total Depth	l		Packer Set at					
Casing Size Weight 4-1/2" 10.5#			Internal Diameter		Set at <b>4379</b> '			rations 2'-4305'	То	То				
Tubing Size Weight			Internal Diameter		Set at		Perforations		То					
2-3/8"			4.7#		312			7'						
Type Con Single	•		escribe)		Type Fluid Production SW				Pump Unit or Traveling Plunger? Yes / No Pump Unit					
	Producing Thru (Annulus / Tubing) % Carbon Dioxide % Nitrogen Gas Gravity - G													
Tubing														
Vertical D	epth(F	i)				Pressu	ire Taps				(Meter R	un) (Pro	over) Size	
Pressure	Buildu	p: :	Shut in02/	20/2014	at _8:	00	(AM) (PM)	Taken 0	2/2 <b>0</b> /20	)14 19	at 8:00	(	AM) (PM)	
•					at 8:00 (AM) (PM) Taken			2/21/20	14 19	at 8:00	at 8:00 (AM) (PM)			
						OBSERVE	D SURFACE	E DATA			Duration of Shut-	in 24	Hours	
Static /	Orifi	re .	Circle one:	Flowing   Well Head			Tubing		Duration Liquid Produced (Hours) (Barrels)					
Dynamic Siz		ze Prover Pressu		1 ' '	Temperature t	Temperature	Wellhead Pressure $(P_w)$ or $(P_t)$ or $(P_c)$				Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		1	
Shut-In		psig		Inches H <sub>2</sub> 0			psig 115	psia	psig -	psia	24			
Flow							110							
7 1011			l			FLOW STR	EAM ATTR	IBUTES				<u> </u>		
Plate			Circle one:	D			Flowing	-					Flowing	
Coeffiecient (F <sub>b</sub> )(F <sub>p</sub> )		Meter or Prover Pressure		Press Extension Š P <sub>m</sub> x H <sub>w</sub>	Grav Fac	tor	r Temperature Factor		iation ctor pv	Metered Flow R (Mcfd)	w GOR (Cubic Fe Barrel)	et/	Fluid Gravity	
Mcfd		psia					F <sub>tt</sub>					G <sub>m</sub>		
<u> </u>	]				(0.05)	0140 (851.04	EDADU ITV		•=====					
(P <sub>c</sub> ) <sup>2</sup> =			(P <sub>w</sub> ) <sup>2</sup> =		P <sub>d</sub> =	OW) (DELIV	•	) CALCUL <sup>2</sup> 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.2 2 =	07	
(' 6'		=-	· · · · · ·	Choose formula 1 or 2				ssure Curve			(- a)			
(P <sub>c</sub> ) <sup>2</sup> - (I	P <sub>a</sub> ) <sup>2</sup>	(F	P <sub>c</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup>	LOG of formula			ssure Curve be = "n"	n x	106			en Flow iverability	
or (P <sub>c</sub> ) <sup>2</sup> - (I	- 12			2. P <sub>c</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	1. or 2.		1	or signed	·   " ^	100	Antilog		R x Antilog	
(1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	d)"			divided by: Pc2 - Pw	and divide by:	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		ard Slope		L			Mcfd	
										**************************************				
Open Flow Mcfd @ 14.65 psia				Deliverabili	ity	Mcfd @ 14.65 psia								
The t	ınders	igned	t authority, or	behalf of the C	ompany, sta	tes that he is	duly author	ized to ma	ike the ab	ove report and	d that he has know	ledge o	f the facts	
stated ther	ein, ar	nd tha	at said report	is true and corre	ect. Execute	ed this the	28th	day of	f Febr	uary		, 1	9 2014	
						la	CC W	(CHI)	rh a	rened		1		
			Witness	(if any)		ñ.	_			For	Company	Or o		
	·		For Com	mission			MAR O	<del>4</del> 2014		Che	cked by			

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exempt status und and that the foreg the best of my kr tion and/or of typ I hereby requ	der penalty or 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 F.G. Holl Company, L.L.C.  going information and statements contained on this application form are true and correct to nowledge and belief based upon gas production records and records of equipment installate completion or upon use of the gas well herein named.  est a permanent exemption from open flow testing for the LUNZ 2-21 prounds that said well:
(Check	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 incapable of producing at a daily rate in excess of 250 mcf/D
Date: <u>2/28/201</u>	Signature: Lareness M.  Title: Petroleum Geologist

## Instructions:

All active gas wells must have at least an original G-2 form on file with the conservation division. If a gas well meets 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 obtain a testing exemption.

At some point during the succeeding calendar year, wellhead shut-in pressure shall be 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.

The G-2 form conveying the newest shut-in pressure reading shall be filed with the Wichita office no later than thirty (30) days after the taking of the pressure reading. The form must be signed and dated on the front side as though it was a verified report of test results.

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