KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	it:			•		(See Instructions on Reverse Side)								
Open Flow					T 0	Total								
Deliverabilty					Test Date: 01/20/2011 - 01/21/2011				No. 15 5-047-20,5	33 . OY	γ			
Company					0 17201	Lease				0-047-20,0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Well N	ımher	
F.G. Holl Company, L.L.C.						LUNZ -20						1-20		
County Location			Section		TWP		RNG (E/W)		Acres Attributed					
Edwards C SW SE			20		248		16W							
Field				Reservoi	•			Gas Gat	hering Conne	ection	(-14		
Embry				Kinder						Sergas Gather				
Completion Date 09/13/1979				4380'	k Total Depti	1		Packer Set at None		J				
Casing Size Weight			Internal (Diameter	Set at		Perforations		То					
4-1/2" 10.5#				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		4419'		4342'-4374'		10				
Tubing Si	olng Size Weight			Internal [Internal Diameter		Set at		rations	То				
2"						4327'								
Type Con	•		escribe)		Type Flui	Type Fluid Production					Plunger? Yes	/ No		
Single (Gas)								Pump						
Producing Thru (Annulus / Tubing)				% Carbo	% Carbon Dioxide			% Nitrog	en	Gas Gravity - G				
Tubing Vertical D	onth/	<u></u>		·		D-++-								
verucai p	epuiți	n)				_	ure Taps				,	tun) (Pi	over) Size	
						Flange					2"			
Pressure Buildup: Shut in 01/20/2011			9at _8	:00	(AM) (PM) Taken		01/20/2011 19		at 8:00	at 8:00 (AM) (F				
Well on Line: Started 01/21/2011 19				9 at 8	:00	(AM) (PM) Taken 01		1/21/201	11 19	at 8:00		(AM) (PM)		
													(run) (r m)	
						OBSERVE	D SURFACE	DATA			Duration of Shut	-in 2	4 Hours	
Static /	Orifice Circle one: Pressure		Flowing Well Head		Casing		Tubing							
Dynamic Si		ilze Meter or Prover Pres. psig			Temperature		Mollhood Descension			ad Pressure	Duration		Liquid Produced	
				Inches H ₂ 0	t t	t			(P _w) or (P _t) or (P _c)		(Hours)		Barrels)	
Shut-In							132		130	, , , , ,	24			
							102		1130		27			
Flow					<u>L.</u>	<u> </u>			<u> </u>			<u> </u>		
						FLOW STR	EAM ATTRI	BUTES						
Plate Coefficcient (F _b) (F _p) Mcfd		Circle one: Meter or Prover Pressure psia		Press	Grav	Gravity		Day	riation	Metered Flov	w GOR		Flowing	
				Extension	Fac	tor	remperature Factor		ctor	R	(Cubic Fe	et/	fluid Consider	
				š P _m x H _w	F	•	F _n	F	pv	(Mcfd)	Barrel	Gravity G_		
											-			
				1]						
					(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS		(P.)	P = 0.2	207	
(P _a) ² =		<u>=:</u>	(P _w) ²	= <u></u> :	P _d =		% (P,	- 14.4) +	14.4 =	:	(P _a			
(P)2. (P)2		(P _g) ² + (P _w) ² 1. P _g		Choose formula 1 or	2: LOG of		Backpressure Curve		,		0		pen Flow	
or		() · (, ,)		2 2 2 2 2	formula 1. or 2.		Slope = "n"		nxi	LOG	Antilog	De	liverability	
$(P_{a})^{2} - (P_{d})^{2}$				2. Fa Fa ⁻	and divide	and divide p2.p2.		Assigned Standard Slope			E		quals R x Antilog Mcfd	
				dMided by: Pe2-P		<u> </u>	Junua	id Slope	 -			ļ		
	ļ													
Open Flow				Matel © 11			Dalbara 1 mm							
Open Flow				Mcfd @ 14.	oo psia		Deliverabilit	<u> </u>			Mcfd @ 14.65 psi	a		
The u	ndersi	igned	authority, or	n behalf of the C	company, sta	tes that he is	duly authoriz	zed to ma	ke the abo	ove report and	I that he has know	vledge d	of the facts	
stated there	ein. an	d tha	it said report	is true and corr	ect. Execute	ed this the	25/1	L veh	, -fe	ลท Vaa	u-2011		۵	
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				***					LOV	enes.	5 /1/p	<u> </u>	le	
			Witness	(if any)						For (Company	R	ECEIVE	
			For Com	mission			_			Char	rked by			
			. 5. 000							Unec	cked by	JA	N 27 20	

I declare under penalty or 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, L.L.C. and that the foregoing information and statements contained on this application form are true and correct to the best of my knowledge and belief based upon gas production records and records of equipment installation and/or of type completion or upon use of the gas well herein named. I hereby request a permanent exemption from open flow testing for the LUNZ 1-20 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 incapable of producing at a daily rate in excess of 250 mcf/D Date:
Signature: LOUENESS Mp ngc 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.