KCC WICHITA

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:					(See Instruc	tions on Rev	erse Side,)				
Open Flo	w			Test Date				A DI N	lo 15			
✓ Deliverability					02/01/2013 - 02/02/2013				API No. 15 15-047-20,648 0000			
Company				02/01/1		Lease			,-		Well Number	
F.G. Holl Company, L.L.C.				LUNZ							3-21	
County Location			Section		TWP		RNG (EA	V)		Acres Attributed		
Edwards	% 2	NW NE	NE	21		248		16W				
Field				Reservoir			-		ering Conne		1 0	
Embry			Kinderhook				Semg	as Ga	thering, L	<u>.LC</u>		
Completion Date 04/14/1980	Đ			Plug Back	k Total Depti	n		Packer 54	r at	Q		
Casing Size		Weigh	t	Internal C	iameter	Set a	t	Perfora	ations	То		
4-1/2"					4429'		4345'-4349'					
Tubing Size			Internal Diameter		Set at		Perforations		То			
2-3/8"		4.7#	 			434	5'					
Type Completion Single (Gas)		icribe)		SW	d Production	ו			-	Plunger? Yes	/ No	
Producing Thru	·	lus / Tubina)	_ ,		% Carbon Dioxide				Pump Unit % Nitrogen		Gas Gravity - G	
Tubing	(70 Carbon Bloxido				,			
Vertical Depth(H	H)				Press	ure Taps				(Meter F	Run) (Prover) Size	
Pressure Buildu	n. 6	hut in02/0	01/2013	at _8:	00	(AM) (PM)	Taken 0	2/01/20 ⁻	13 19	at 8:00	(AM) (PM)	
Pressure bulluu							Idkeli		15		(AM) (PM)	
Well on Line:	St	arted <u>UZ/U</u>	02/2013 19	at		(AM) (PM)	Taken U	2/02/201	319	at 8:00	(AM) (PM)	
					OBSERVE	D SURFACE	E DATA	···		Duration of Shut	-in14Hour	
Statis I Ocif	c / Orifice Circle one: Pressure				Casing		Tubing		Duration of Silds	11001		
Static / Orifi Dynamic Siz	Meter or		Differential	Flowing Well Head Temperature Temperature		Wellhead Pressure		Wellhead Pressure		Duration	Liquid Produced	
Property inch	es	Prover Pressu psig	re in (h) Inches H ₂ 0	t	t	(P _w) or (P	psia	(P _w) or i	(P _t) or (P _c)	(Hours)	(Barrels)	
Shut-In			 			235	paid	- paig	psia	24	<u> </u>	
						1						
Flow								l	<u>L</u>	<u></u>		
			<u> </u>		FLOW STE	REAM ATTR	BUTES					
Plate Coeffiecient	Plate Circle one: Coefficient Meter or		Press Extension	Gravity		Temperature		viation Metered Flow		i i	l Eluid	
		er Pressure	š P _m x H _w	Fact F _s	tor	Factor		ctor	R (Mcfd)	(Cubic Fe Barrel)	et/ Gravity	
		psia	m.v.w	,	<u>'</u>	Fn		py (mate)			G _m	
L			•	(OPEN EL	OW) (DELIV	/ERABILITY	CALCUL	ATIONS				
(P_) ² =		(P _w) ² =		P _d =	• •	•	, - 14.4) +		•	(P _a (P _d) ² = 0.207	
, e,	 '		Choose formula 1 or 2:	' a -)	
(P _c) ² - (P _p) ²	(P _c) ² - (P _w) ²		1. P _c ² -P _a ²	LOG of formula		Backpressure (Slope = "n"		n x L	LOG		Open Flow Deliverability	
or (P)2-(P)2			2. P _c ² -P _d ²	1. or 2. and divide		1	or signed			Antilog	Equals R x Antilog	
V 67 (47			divided by: Pc2 - Pw2	by:	P _c ² -P _w ²		ard Slope		L J		Mcfd	
				 		+						
Open Flow			Mcfd @ 14.6	5 osia		Deliverabili	itv	•		 Mcfd @ 14.65 psi	<u> </u> a	
·	lanc d	outborit			lan thether!		-	.l			<u> </u>	
i ne undersi	ignea :	autnority, on	penall of the Co	impany, sta	ies inat ne i	s duly author				ı ınat ne nas knov	wledge of the facts	
tated therein, an	nd that	said report	is true and corre	ct. Execute	ed this the _		day of		irch		, 19	
							FC	Hali	Cour	Company L Company L Ceorge	10	
		Witness (i	f any)			_	//) 1	For	Company J	DECE	
							K	ebec	Ca	George	RECE	
		For Comn	Manina			_				-1 J L.,		

exempt status and that the the best of m tion and/or or I hereby	under penalty or perjury under the laws of the state of Kansas that I am authorized to request s under Rule K.A.R. 82-3-304 on behalf of the operator F.G. Holl Company, L.L.C. foregoing information and statements contained on this application form are true and correct to make the state of the passion of the gas well herein named. The request a permanent exemption from open flow testing for the LUNZ 3-21 the grounds that said well:
(C	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: _ 03/04	Signature: Landman Title: Landman

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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KCC WICHITA