Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test:			((See Instru	ctions on Re	verse Side))					
Open Flow			Test Date				ADI N	la 15		2		
./ Deliverabilty				01/25/2011 - 01/26/2011				API No. 15 15-047-20,648 - OOO				
Company F.G. Holl Company, L.L.C.			Lease LUNZ			••••				Well Number 3-21		
County Location			Section		TWP		RNG (E/W)			Acres Attributed		
Edwards			21		24\$		16W					
Field			Reservoir					ering Connec		کے میل	- 11	
Embry Completion Date			Kinderhook Plug Back Total Depth			·	<u>ت</u> Packer Se	engo	12 90	Gathering, L		
04/14/1980			r lug back	r lotal Dept			r acker oe	,, 61				
Casing Size Weight			Internal D	iameter	Set a	Set at F		Perforations		То		
-1/2" 10.5#				4429'		4345'-4349'						
ubing Size Weight		Internal Diameter		Set at		Perforations		То	То			
2-3/8"	4.7#				434	5'						
Type Completion (Describe)			SW	Type Fluid Production			Pump Unit or Traveling Plunger? Yes / No Pump Unit					
Single (Gas) Producing Thru (Annulus / Tubing)			% Carbon Dioxide				% Nitrogen		Gas G	Gas Gravity - G		
Producing Thru (Annulus / Tubing) Tubing			% Carbon Dioxide				∕e mavyan		020 0	Out Clavily - O		
Vertical Depth(H)		-	· · · · · -	Press	ure Taps	,		·	(Meter I	Run) (Prover)	Size	
01/25/2011			8:00				1/25/20	11	8:00	at 8:00 (AM) (PM)		
Pressure Buildup: Shut in 01/25/2011 19						raken		1.5		, ,, ,		
Well on Line: St	arted 01/26/	/2011 ₁₉	at _8: 	00	(AM) (PM)	Taken 0	1/26/201	1 19	at <u>8:00</u>		(PM)	
		<u> </u>	,.,. <u>.</u> .	OBSERVI	ED SURFAC	E DATA			Duration of Shut	1-in 24	_Hours	
Static / Orifice	Flowing				Tubing Wellhead Pressure		Duration	Duration Liquid Produced				
Dynamic Size Property inches	Prover Pressure in (h)		Temperature t t		(P _w) or (P _t) or (P _c)		(P _w) or (P _i) or (P _c)		(Hours)			
Property inches	psig	Inches H ₂ 0		ļ`	psig	psia	psig	psia				
Shut-In		138			24		24	‡				
Flow			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	1			1				
1104		<u> </u>		<u>i</u>	<u> </u>	<u> </u>	<u> </u>			<u>l</u>		
	1		- 	FLOW ST	REAM ATTR	RIBUTES	···	 				
riate į			Gravity		Tompomiura		eviation Metered Flow				Flowing Fluid	
OOGHIDGIGHT	er Pressure	š P_x H_	Factor F _g		Factor F _{II}		Factor R F _{pv} (Mcfd)		(Cubic Feet) G		Gravity	
Mcfd				'							G	
						}						
					VERABILITY)2 = 0.207		
P _e) ² =:	(P _w) ² =	:	P _d =		.% (I	P _e - 14.4) +	14.4 =	 : ,	(P _a) ² =		
(P)2-(P)2 (P	1	ose formula 1 or 2: 1. P _c ² - P _a ²	LOG of			ssure Curve		[T		Open F		
or (P _c) ² -(P _a) ² 2. P _c ² -P _c ² dMded by: P _c ² -P _c ²		formula 1. or 2.	formula			inxlugi ii		Antilog	Antilog Deliveral			
			and divide p2_p2		Assigned Standard Slope						Mcfd	
		w				•				 	─	
							_			-		
					<u></u>	174			4-14-6-14-05	<u> </u>		
Open Flow		Mcfd @ 14.6	5 psia		Deliverabi	lity			vicfd @ 14.65 ps	ia		
The undersigned atted therein, and that	•				is duly autho	rized to ma	16	ive report and $\mathcal{NUC_V}$	that he has kno	wledge of the	facts	
2.55 arosent, and alac	. Jana raport is t	. 30 and 00116	J. ENSOUTE	- 3 mile and _		cay o		Low	enes sa	Echnie	 }	
	Witness (if an	y)		· · · ·	-	•		For (Company			
<u> </u>	For Commissi	ion			-		<u> </u>	Chec	cked by	-B-U-1-2	!011 —	
									KC	C WICH	IITA	

exempt status und and that the foreg the best of my kno tion and/or of type I hereby reque	er penalty or perjury under the laws of the state of Kansas that I am authorized to request er Rule K.A.R. 82-3-304 on behalf of the operator F.G. Holl Company, L.L.C. oing information and statements contained on this application form are true and correct to owledge and belief based upon gas production records and records of equipment installated completion or upon use of the gas well herein named. St a permanent exemption from open flow testing for the LUNZ 3-21
(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: 01/28/201	Signature: Loveness Manye 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.