KCC WICHITA

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Type Test	t:						(See Instruc	tions on Re	verse Side,)					
Open Flow										4.01					
✓ Deliverabilty						Test Date:				No. 15 5_047_21_2	29 - 0000				
						0 1/20/2	01/28/2013 - 01/29/2013 Lease				J-041-Z 1,Z	29-000	Well Number		
Company F.G. Ho		mpa	any, L.L.C					LUNZ	"A"				4-21	imbér	
				Section					 W)	·. <u>. </u>		ttributed			
Edwards SE SE NW				21		24\$,						
Field						Reservoir	,			Gas Gati	nering Conne				
Embry					Kinder	hook/Mis	sissippi		Sempas		is Gatheri	ทฮ	LLC		
				Plug Back	Plug Back Total Depth				et at		<u>ත</u>				
12/18/1	984														
Casing Size Weight			Internal D	Diameter	Set a				То						
4-1/2"			10.5	*				4416'		4271'-4330'					
_	ubing Size Weight				Internal D	iameter	Set at		Perforations		То				
2-3/8" 4.7#					4262.06'				· · · · · · · · · · · · · · · · · · ·						
							Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No Pump Unit				
Single (Gas)						SW					00	Cr. Cr. ib. C			
J (% Carbon	% Carbon Dioxide				en	Gas G	Gas Gravity - G			
Tubing								T					- \ (5)	<u> </u>	
Vertical D	eptn(F	1)					Press	ure Taps				(Meter I	(un) (Pr	over) Size	
			Ω1 <i>/</i>	28/2	2013	8.	·00			1/28/20	113	8.00		 	
Pressure Buildup: Shut in 01/28/2013 19									19				(AM) (PM)		
Well on L	ine:	S	started 01/2	29/2	2013 ₁₉)at _8:	:00	(AM) (PM)	(AM) (PM) Taken 01/2		<u>13 </u>	_{at} <u>8:00</u> _	at 8:00 (AM) (F		
			y				OBSERVE	D SURFAC	E DATA			Duration of Shut	:-in24	Hours	
Dynamic Si		rifice Circle one: Meter or Size Prover Pressu psig		Differential		Flowing Temperature	Well Head	Casing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Tubing			l	Limite Book	
							1				ad Pressure ·(P,) or (P,)	Duration (Hours)		Liquid Produced (Barrels)	
				- 1	Inches H ₂ 0	t	t	psig	psia psig		psia	{ (,	(==,0,0)		
Shut-In								81	·	0	- ' '	24			
								-		-			+-		
Flow													<u> </u>		
							FLOW STE	REAM ATTR	IBUTES						
Plate	,	Circle one:			Press	Grav	rity	Flowing		iation	Metered Flo	w GOR		Flowing	
Coeffiecient		Meter or			Extension	Factor		Temperature F		viation Metered Flow factor R		(Cubic Fe		Fluid	
(F _b) (F _p) Mcfd		Prover Pressure psia			š P _m xH _w	F.		Factor F ₁₁	F	pv	(Mcfd)	Barrel)	Gravity G _m	
MICIU		F						1 11			. ,,				
						(OPEN FL	OW) (DELIV	ERABILITY) CALCUL	ATIONS		(P) ² = 0.2	ሳን	
(P _c) ² =		:	(P _w) ² =	:	:	P. =		% (F	P _a - 14.4) +	14.4 =	:) ² =		
		=			se formula 1 or 2.			1				<u>`</u>	T		
(P _c) ² - (P _a) ²		(P _c)² - (P _w)²		1 P2 P2		LOG of formula		Backpressure Curv Slope = "n"		n x l	og			pen Flow liverability	
or (P _c)²- (P _d)²			-	2.	. P _c ² -P _d ²	1. or 2. and divide		Assigned		-		Antilog	Equals R x Antilog		
				divided by: Pc2 - Pw2			P _c ² - P _w ²	Standard Slope					Mcfd		
						+							+		
			<u> </u>										<u> </u>		
Open Flov	ν			М	1cfd @ 14.6	5 psia		Deliverabil	ity			Mcfd @ 14.65 ps	a		
The	ındersi	igned	l authority, on	beh	alf of the Co	ompany, sta	tes that he i	s duly autho	rized to ma	ke the ab	ove report and	d that he has know	wledge (of the facts	
stated ther	ein ar	nd the	at said report	is tru	ie and corre	ect Execute	ed this the	4th	day o	ν_{l}	arch		4	s 2013	
	on a	, u II IC	said iepuit		and com	Execute	or und tre _	/						ر_ندے ،	
								=	F. G.	Hol	1 Com	pany, L	.LC	<u></u>	
			Witness (ır any)	,				PL	e .	For	Company /		RECE/\	
· · · · ·			For Comr	nission				=	-neva	ca	<u>ن</u> وي Che	cked by			
												* **		MAR 05	

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 "A" 4-21 gas well on the grounds that said well:
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: 03/04/2013 Signature: Alexa Heorge 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.

RECEIVED MAR 0.5 2013

KCC WICHITA