KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test	t :				(See Instruc	tions on Reve	rse Side,	,				
Op.	en Flo	w		Test Date	a·			API	No. 15			
Del	liverab	ilty		1631 Date	7.			T'	81 20	267-	00-00	
Company	,					Lease					Well Number	
		oduction	n, Inc.			Ar	mstr	ong 1	L-11A			
County		Loca	ation	Section		TWP		RNG (E		•	Acres Attributed	
Sher	mar	n SW	SW NW	11		8S		401				
ield				Reservoi				Gas Gat	hering Connec	ition _a	•	
Good					<u>brara</u>			Packer S	KN		1.65	
Completion Date				Plug Back Total Depth		, P		set at				
11/14/83			1245		Set at		Perforations		То			
Casing Size		Wei	ht Internal Diameter		1346'		1212'		1237'			
4.5 Tubing Size		Wei	ht Internal Diameter		Set at		Perforations		To			
abing Si	20	****	ş. · ·									
pe Com	pletion	n (Describe)		Type Flui	d Production			Pump U	nit or Traveling	Plunger? Yes	/ No	
Sing										,		
Producing Thru (Annulus / Tubing)			% Carbo	n Dioxide	•	% Nit		en .		Gas Gravity - G		
•										0.6		
ntical D	epth(H	1)			Press	ure Taps				(Meter	Run) (Nover) Size	
ressure	Buildu	o: Shutin 7	/6	99 8 8	:00	(AMY(PM) T	aken	7,	<u>/719</u> 2	9 at 8:00)XAXI) (PM)	
		•										
ell on Li	ine:	Started	1!	3at		(AM) (PM) ,T	aken		19	at	(AM) (PM)	
					0005015	D CUDEAGE	DATA			Duration of Shut	-in Hours	
		Circle one			OBSERVE	D SURFACE		T	Tubing	Duration of Shot	1003	
Static / Ori		Ce Meter o		Flowing Well Hear		Casing Wellhead Pressure		Wellhead Pressure		Duration	Liquid Produced	
		es Prover Pres		Temperature t	Temperature t	(P_w) or (P_t) or (P_c)		(P _w) or (P ₁) or (P _c)		(Hours)	(Barrels)	
openy		psig	Inches H ₂ 0			psig	psia	psig	psia			
hut-In						23						
Flow									- ·.			
IOW				<u></u>	l			<u> </u>				
					FLOW STR	REAM ATTRIB	UTES					
$ \begin{array}{c c} \text{Plate} & \textit{Circle one} \\ \text{Coefficient} & \textit{Meter or} \\ (F_b) \left(F_p\right) & \textit{Prover Pressure} \\ \text{Mcfd} & \text{psia} \end{array} $		Press	Grav	vity .	Flowing Dev		viation Metered Flow			Flowing Fluid		
			Extension	Fac	١ .	Temperature Factor		ctor R (Mcfd)		(Cubic Fo	BeV Gravity	
			√P _m xH _w	F,		F _n				Ballely	G_	
			· · · · · · · · · · · · · · · · · ·							-	•	
						•						
				(OPEN FL	OW) (DELIV	ERABILITY)	CALCUL	ATIONS) ² = 0.207	
)² =		_: (P _w)²	=:	P _d =		% (P _c	- 14.4) +	14.4 = _	<u> </u>	(P _a))2 =	
			Choose formula 1 or 2	• 1	Γ	Backpress	ure Curve		Γ٦		Open Flow	
(P _c)2 · (P	·)²	$(P_c)^2 - (P_w)^2$	1. P _c ² • P _a ²	LOG of formula	•	Slope	= "N"	п×	LOG	Antilog	Deliverability	
or (P _a)² - (P _a)²			2. P _c ² • P _d ²	1. or 2. and divide p2 p2		Assigned		-			Equals R x Antilog McId	
	•		divided by: Pc - P			Standar	d Slope				HIGH	
				}								
			L			1		l	L			
Open Flow Mcfd @ 14.65 psia						Deliverability McId @ 14.65 psia: CEIVED ST CCREORATION COMMISS duly authorized to make the above report and that he has knowledge of the facts						
The	ndo-si	anad sutherity of	n hehelf of the C	nmnanu eta	tes that he is	s duly authoriz	ed to ma	ke the ah	ove report and	ST. CCRP(JRAHON COMMISS wiedge of the facts	
i ne u	naersi	yneu autnority, C	in Denail of the C	unipany, sia	ies mai ne it							
ted there	ein, an	d that said repo	rt is true and corre	ect. Execute	ed this the _	23	day o		Decemb	er	EC 2 # 1999.	
								las	le Ve	elected	-40-40	
		Witness	s (if any)			_		900	For		servation Divisio lichita, Kansas	
			· · · · · · · · · · · · · · · · · · ·					/		٧V	Ivilla, Nalisas	
		Fac Ca	mmission						Chec	ked by	·	

l declare	under penalty or perjury under the laws of the state of Kansas that I am authorized to request
	under Rule K.A.R. 82-3-304 on behalf of the operator <u>Lobo Production</u> , <u>Inc.</u>
nd that the fo	pregoing information and statements contained on this application form are true and correct to
e best of my	knowledge and belief based upon gas production records and records of equipment installa-
	type completion or upon use of the gas well herein named.
l hereby re	equest a permanent exemption from open flow testing for the <u>Armstrong 1-11A</u>
	e grounds that said well:
(Ch	neck one)
ļ	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
ļ	is on vacuum at the present time; KCC approval Docket No
Į	X is incapable of producing at a daily rate in excess of 150 mcf/D
ate: 12/2	23/99
	·
	Signature:
	Title: Owner/Operator
	THE VALLETY OF THE PARTY OF THE

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.