## KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Tes	t:				(	See Instruct	ions on Rev	erse Side	<del>?</del> )				
Open Flow				T D-1-	Took Date:								
✓ Deliverabilty					Test Date: 9/23/2013				API No. 15 181-20238 <b>- 000 0</b>				
Company LOBO PRODUCTION, INC.							Lease ARMS1	rrong	- <del>-</del>	<del></del>	1-11	Well Num	nber
County Location SHERMAN C NW NW				Section 11		TWP 8S		RNG (E/W) 39W		Acres Attributed			
Field GOODLAND GAS FIELD				Reservoir NIOBRARA					thering Conne		•		
Completion Date 2 /10 / 83				Plug Bac 1031'	k Total Dept	h		Packer					
Casing Size Weight 4.5 9.5#			Internal Diameter 4.09		Set at 1031'		Perforations 996'		To 1010'				
Tubing Size Weight				Internal Diameter		Set at	Set at Perf		orations	ions To			
Type Completion (Describe) SINGLE GAS				Type Fluid Production				Pump Unit or Traveling Plunger? Yes / No					
Producing Thru (Annulus / Tubing) CASING				% Carbon Dioxide				% Nitro	gen		Gas Gravity - G <sub>g</sub> .5877		
Vertical Depth(H) 1003'				Pressure Taps				, mb/ w		(Meter I		over) Size	
			13 at 9:00 (AM) (PM)			Taken 09	3/24	20	13 <sub>at</sub> 10:00				
Well on Line: Started2			0 at (AM) (PM) Ta			Taken		20	at	at (AM) (PM)			
				•		OBSERVE	D SURFACE	DATA		· · · · · · · · · · · · · · · · · · ·	Duration of Shut-	<sub>in</sub> 25.0	O Hours
Static / Dynamic	1	Orifice Circle one: Pressure Size Meter Differential Prover Pressure in		Flowing Well Head Temperature Temperature		Casing Wellhead Pressure		Tubing Wellhead Pressure		Duration	Liquid Produced		
Property			psig (Pm)	Inches H <sub>2</sub> 0	t	t	(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		(P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> ) psig psia		(Hours)	(Barrels)	
Shut-In							16		<del></del>				
Flow													
	<del></del>	-		<del></del>	<del></del>	FLOW STR	EAM ATTRI	BUTES		<del>,</del>	···		
Plate Coeffiecient (F <sub>b</sub> ) (F <sub>p</sub> ) Mcfd			Meter or ever Pressure psia	Press Extension  P <sub>m</sub> x h.	Grav Fact F <sub>0</sub>	or T	Temperature F		viation Metered Flow actor R F <sub>pv</sub> (Mcfd)		GOR (Cubic Fe Barrel)	et/	Flowing Fluid Gravity G <sub>m</sub>
L				···		<u> </u>		<u> </u>					
(P <sub>c</sub> ) <sup>2</sup> =		_:	(P <sub>w</sub> ) <sup>2</sup> =	:	(OPEN FLO		ERABILITY)	CALCUL - 14.4) +		:	(P <sub>a</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	2 = 0.20	7
$(P_c)^2 - (P_q)^2$ $(P_c)^2 - (P_w)^2$		Ch	1. P <sub>c</sub> <sup>2</sup> -P <sub>a</sub> <sup>2</sup> 2. P <sub>a</sub> <sup>2</sup> -P <sub>d</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide	P.2. P.2	Backpressure Curve Slope = "n" or Assigned		n x 10G		Antilog	Ope Delive Equals F	Open Flow Deliverability quals R x Antilog (Mcfd)	
	-		dîv	ided by: $P_c^2 - P_w^2$	by:	<u> </u>	Standa	rd Slope			··	(,,	
_												-	
Open Flor	w			Mcfd @ 14.6	55 psia		Deliverabil	ity			Acfd @ 14.65 psi	a	
The (	undersi	gned	authority, on	behalf of the	Company, s	tates that he	e is duly aut	horized to	make t	ne above repor	t and that he ha	s knowle	dge of
			n, and that said								•		13
						KUU	WICH	IĮA	T	1/	1 12	11.	
			Witness (if a	(Vr		ner.	N 4 201	₹——	Ku	hand Forth	1 /	ulle	<u> </u>

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922)
I declare under penalty of 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 LOBO PRODUCTION, INC.
and that the foregoing pressure information and statements contained on this application form are true and
correct to the best of my knowledge and belief based upon available production summaries and lease records
of equipment installation and/or upon type of completion or upon use being made of the gas well herein named.
I hereby request a one-year exemption from open flow testing for the ARMSTRONG 1-11
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 not capable of producing at a daily rate in excess of 250 mcf/D
I further agree to supply to the best of my ability any and all supporting documents deemed by Commission
staff as necessary to corroborate this claim for exemption from testing.

Date: 12/01/2013

Signature:

Title: OWNER/OPERATOR

Richard a. Miller

Instructions:

If a gas well meets one of 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 claim exempt status for the gas well.

At some point during the current calendar year, wellhead shut-in pressure shall have been 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 for so long as the gas well continues to meet the eligibility criterion or until the claim of eligibility for exemption **IS** denied.

The G-2 form conveying the newest shut in pressure reading shall be filed with the Wichita office no later than December 31 of the year for which it's intended to acquire exempt status for the subject well. The form must be signed and dated on the front side as though it was a verified report of annual test results.

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