

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

Type Test:

- Open Flow  
 Deliverability

Test Date: 07/01/09

API No. 15  
15-023-21018-00-00

Company	LOBO PRODUCTION, INC.
Lease	HINZDIL
Well Number	1-17
County	CHEYENNE
Location	N2 SW NE SE
Section	17
TWP	4S
RNG (E/W)	41W
Acres Attributed	
Field	CHERRY CREEK NIOBRARA
Reservoir	NIOBRARA
Gas Gathering Connection	LOBO PRODUCTION, INC.

Completion Date	06/27/08
Plug Back Total Depth	1302'
Packer Set at	
Casing Size	Weight 11.6#
Internal Diameter	Set at 1307'
Perforations	1196'
To	1226'
Tubing Size	Weight
Internal Diameter	Set at
Perforations	
To	

Type Completion (Describe)	SINGLE GAS
Type Fluid Production	
Pump Unit or Traveling Plunger?	NO
Yes / No	
Producing Thru (Annulus / Tubing)	
% Carbon Dioxide	
% Nitrogen	
Gas Gravity - G <sub>g</sub>	

Vertical Depth(H)	1313'
Pressure Taps	
(Meter Run) (Prover) Size	2" METER RUN
Pressure Buildup:	Shut in 07/01 20 09 at 10:30 (AM) Taken 07/02 20 09 at 10:45 (AM) Taken
Well on Line:	Started 20 09 at 20 09 at (AM) (PM)

Static / Orifice	Property Size (inches)	Circle one: Meter Prover Pressure	psig (Pm)	Differential Pressure in inches H <sub>2</sub> O	Flowing Temperature °F	Well Head Temperature °F	Casing Wellhead Pressure (P <sub>c</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )	Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>3</sub> ) or (P <sub>4</sub> )	Duration (Hours)	Liquid Produced (Barrels)
Dynamic	Property (inches)	Circle one: Meter or Prover Pressure							24.25	
Shut-in						220				
Flow										

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>1</sub> ) (F <sub>2</sub> ) (F <sub>3</sub> ) (F <sub>4</sub> ) (Mctd)	Circle one: Meter or Prover Pressure	psia	Press Extension P <sub>m</sub> x h	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>tt</sub>	Deviation Factor F <sub>dv</sub>	Metered Flow R (Mctd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
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### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>0</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = \_\_\_\_\_ : P<sub>a</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207 (P<sub>0</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>0</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup> or (P <sub>0</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	(P <sub>0</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>0</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup> 2. P <sub>0</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> divided by: P <sub>0</sub> <sup>2</sup> - P <sub>a</sub> <sup>2</sup>	LOG of formula 1 or 2 and divide by: P <sub>0</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mctd)
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Open Flow Mctd @ 14.65 psia Deliverability Mctd @ 14.65 psia

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this the 30TH day of September, 2009

RECEIVED  
OCT 06 2009

Witness (if any) \_\_\_\_\_  
For Company \_\_\_\_\_

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 HNIZDIL 1-17 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: 09/30/09

Signature: 

Title: OWNER/OPERATOR

**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.