

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
 Deliverability

FEB 13 2003

Test Date:

12/7/02

API No. 15

15-181-20051-00-00

KCC WICHITA

Company Lobo Production, Inc.		Lease Bolliq		Well Number 1-8	
County Sherman	Location SWSWN	Section 8	TWP 8S	RNG (E/W) 38	Acres Allocated
Field Goodland Gas	Reservoir Niobrara	Gas Gathering System Kinder-Morgan			
Completion Date 7-16-79	Spud date	Plug Back Total Depth 980'	Packer Set at		
Casing Size 2.875	Weight	Internal Diameter	Set at 976'	Perforations 882'	To 916'
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

Type Completion (Describe) Single Gas	Type Fluid Production	Pump Unit or Traveling Plunger? Yes / No
Producing Thru (Annulus / Tubing)	% Carbon Dioxide	% Nitrogen
		Gas Gravity - G _s

Vertical Depth (H)	Pressure Type 100" Differential, 100lb static, sq. root charts	(Meter Run) (Prover) Size 2" meter run
Pressure Buildup: Shut in 12/2 19 02 at 8:30 (AM) (PM) Taken 12/5 19 02 at 10:00 (AM) (PM)		
Well on Line: Started 12/5 19 02 at 10:00 (AM) (PM) Taken 12/7 19 02 at 8:30 (AM) (PM)		

OBSERVED SURFACE DATA

Duration of Shut-in **73.5** Hours

Static / Dynamic Property	Orifice Size inches	Circle one: Meter or Prover Pressure psig	Pressure Differential in (h) Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _i) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in	.25	15.0				15.0	28			73.5	0
Flow	.25	8.0	16	50	50	9.0	22			46.5	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _o) (F _s) Mcd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times H_w}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{dv}	Metered Flow R (Mcd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _s
.396	21.5	18.55	1.00	1.00	1.00	7.34	N/A	N/A

(OPEN FLOW, DELIVERABILITY) CALCULATIONS

(P _w) ₁ ² = .784	(P _w) ₂ ² = .484	P _e = _____ %	(P _e - 14.4) + 14.4 = _____	(P _w) ₁ ² = 0.207	(P _w) ₂ ² = _____		
(P _w) ₁ ² - (P _w) ₂ ² or (P _w) ₁ ² - (P _w) ₂ ²	(P _w) ₁ ² - (P _w) ₂ ²	Choose formula 1 or 2: 1. P _w ² - P _e ² 2. P _w ² - P _e ² divided by: P _w ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_{w1}^2 - P_{w2}^2}{P_{w1}^2 - P_{w2}^2}$	Backpressure Curve Slope = "n" ----- or Assigned Standard Slope	n x LOG $\left[\frac{P_{w1}^2 - P_{w2}^2}{P_{w1}^2 - P_{w2}^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog Mcd
.577	.300	1.923	.2841	.850	.2414	1.744	12.80

Open Flow **12.80** Mcd @ 14.65 psia Deliverability Mcd @ 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 20th day of January, 19 2003.

Witness (if any) _____
For Commission _____

John Sanders
For Company

Checked by

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 Lobo Production, Inc. 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 Bollig 1-8 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 incapable of producing at a daily rate in excess of 150 mcf/D

Date: 1/20/03

Signature: John Sanders

Title: President

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.