

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: _____ (See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date: _____

API No. 15 119-20, 781-0000

Company Cobra Oil & Gas Corporation		Lease Lee		Well Number 1-2	
County Meade	Location E/2 NE NWSE	Section 2	TWP 32S	RNG (E/W) 29W	Acres Attributed
Field Hockett, SE		Reservoir Chester	Gas Gathering Connection Englewood Corporation		
Completion Date 11/7/88		Plug Back Total Depth 5669'	Packer Set at		
Casing Size 4.5"	Weight 11.6#	Internal Diameter 3.995	Set at 5699'	Perforations 5699'	To 5640'
Tubing Size 2.375"	Weight 4.7#	Internal Diameter 1.995	Set at 5570'	Perforations	To
Type Completion (Describe) Single		Type Fluid Production Dry Gas	Pump Unit or Traveling Plunger? Yes / No Yes		
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide	% Nitrogen	Gas Gravity - G _g .650	
Vertical Depth(H) 5670'		Pressure Taps Flange		(Meter Run) (Prover) Size 3.000	
Pressure Buildup: Shut in <u>08/11</u> <u>2015</u> at <u>1:00pm</u> (AM) (PM) Taken <u>08/12</u> <u>2015</u> at <u>1:30pm</u> (AM) (PM)					
Well on Line: Started <u>20</u> at _____ (AM) (PM) Taken <u>20</u> at _____ (AM) (PM)					

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OBSERVED SURFACE DATA

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 _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In									265	24	
Flow											

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\bar{S} P_m \times H_w$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = _____ : (P_w)² = _____ : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_a^2}{P_c^2 - P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd

Open Flow Mcf/d @ 14.65 psia Deliverability Mcf/d @ 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 _____ day of _____, 20____.

Witness (if any)

For Company

For Commission

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 Cobra Oil & Gas Corporation 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 Lee 1-2 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: 09/18/2015

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Signature: *Barbara Pappas*

Title: Drlg & Prod Asst.

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.