

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
9-21-12

API No. 15
15-119-21287 - 00-00

Company O'BRIEN ENERGY RESOURCES CORP		Lease VAIL		Well Number 2-30	
County MEAD	Location N/2 NW	Section 30	TWP 33S	RNG (EW) 29W	Acres Attributed
Field MORROW		Reservoir MORROW		Gas Gathering Connection DCP MIDSTREAM	
Completion Date 6-10-11		Plug Back Total Depth 6290		Packer Set at 5740	
Casing Size 4.5	Weight 10.5	Internal Diameter 4.090	Set at 6378	Perforations 5824	To 5858
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 5750	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production COND.		Pump Unit or Traveling Plunger? Yes / No NO	
Producing Thru (Annulus / Tubing) TUBING		% Carbon Dioxide 0.144		% Nitrogen 4.813	
Vertical Depth(H) 5841		Pressure Taps FLANGE		Gas Gravity - G _g 0.682	
Pressure Buildup: Shut in 9-17-12 20 at 1545 (AM) (PM)		Taken 9-20-12 20 at 1545 (AM) (PM)			
Well on Line: Started 9-20-12 20 at 1545 (AM) (PM)		Taken 9-21-12 20 at 1545 (AM) (PM)			

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KCC WICHITA

OBSERVED SURFACE DATA

Duration of Shut-in **72.0** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure psig (Pm)	Pressure Differential in 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								260.2	274.6	72.0	
Flow	2.250	60.2	3.1	78	75			175.2	189.6	24.0	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _o) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _p	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
29.5164	74.60	15.21	1.2109	0.9831	1.0064	537.8	NONE	0.682

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 75.4 : (P_w)² = 42.5 : P_g = 75.1 % (P_c - 14.4) + 14.4 = 274.6 : (P_o)² = 0.207
(P_o)² = _____

(P _c) ² - (P _o) ² or (P _c) ² - (P _w) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _o ² 2. P _c ² - P _w ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_o^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
75.20	32.88	2..287	0.3592	0.789	0.2834	1.9206	1032.88

Open Flow **1033** Mcfd @ 14.65 psia Deliverability Mcfd @ 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 21 day of SEPTEMBER, 20 12.

Copy to KCC Wichita

Witness (if any)

Copy to KCC Dodge City

For Commission

Precision Wireline & Testing

For Company

Mark A. Beard

Checked by

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 _____ 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 _____ 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: _____

Signature: _____

Title: _____

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.