

Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Form G 2
(Rev. 7/03)

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date: **10/17/2011** API No. **15081218210000**

Company OXY USA Inc		Lease ROWLAND C 2			Well Number	
County Haskell	Location 450' FNL & 1650' FEL	Section 14	TWP 30S	RNG (EW) 32W	Acres Attributed 640	
Field UNASSIGNED		Reservoir Chester		Gas Gathering Connection Oneok		
Completion Date 11/29/2010		Plug Back Total Depth 5,756'		Packer Set at		
Casing Size 5 1/2"	Weight 17.0#	Internal Diameter 4.892"	Set at 5,796'	Perforations 5,382'	To 5,434'	
Tubing Size 2 3/8"	Weight 4.7#	Internal Diameter 1.995"	Set at 5,510'	Perforations	To	
Type Completion (Describe) SINGLE-GAS		Type Fluid Production WATER		Pump Unit or Traveling Plunger?		Yes / No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Producing Thru (Annulus / Tubing) Annulus		% Carbon Dioxide 0.224%		% Nitrogen 11.696%		Gas Gravity Gg 0.72
Vertical Depth (H) 5,408'		Pressure Taps Flange		(Meter Run) (Prover) Size 3.068"		
Pressure Buildup: Shut in 10/14 20 11 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken 10/17 20 11 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM						
Well on Line: Started 10/16 20 11 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken 10/17 20 11 at 9:00 <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM						

OBSERVED SURFACE DATA Duration of Shut in 72 Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter 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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut In						196.2	210.6	196.2	210.6	72	0
Flow	1.000	39.6	15.8	47	47	120.1	134.5	47.0	61.4	24	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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 _{pr}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _m
4.9120	54	29.21	1.1785	1.0127	1.0054	172		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = **44.4** ; (P_w)² = **18.1** ; P_d = _____ % (P_c 14.4) + 14.4 = _____ ; (P_w)² = **0.207**
(P_d)² = **0**

(P _c) ² (P _e) ² or (P _c) ² (P _d) ²	(P _c) ² (P _w) ²	Choose Formula 1 or 2: 1 P _c ² P _e 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:	(P _c) ² (P _w) ²	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
44.1	26.3	1.6798	0.2253	0.9245	0.2083	1.6155	278	

Open Flow **278** Mcfd @ 14.85 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 December 2011

Witness _____ **RECEIVED** _____ **OXY USA INC**
For Commission _____ **DEC-23 2011** _____ **For Company**
David Ogden - OXY USA Inc. _____
Checked by _____

KCC WICHITA

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 a 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 the 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 31st 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.

RECEIVED
DEC 23 2018
KCC WICHITA