

# Kansas Corporation Commission One Point Stabilized Open Flow or Deliverability Test

Form G 2  
(Rev. 7/03)

Type Test:

- Open Flow  
 Deliverability

Test Date: **09/29/2010**      API No. **15129218760000**

Company <b>OXY USA Inc</b>		Lease <b>ONEIL 28-1</b>			Well Number	
County <b>Morton</b>	Location <b>1950FSL &amp; 1390 FWL</b>	Section <b>28</b>	TWP <b>32S</b>	RNG (E/W) <b>39W</b>	Acres Attributed <b>640</b>	
Field <b>KINSLER</b>		Reservoir <b>Morrow</b>		Gas Gathering Connection <b>Anadarko Gathering</b>		
Completion Date <b>08/02/2009</b>		Plug Back Total Depth <b>6,024'</b>		Packer Set at <b>5,844'</b>		
Casing Size <b>4 1/2"</b>	Weight <b>10.5#</b>	Internal Diameter <b>4.052"</b>	Set at <b>6,100'</b>	Perforations <b>5,882'</b>	To <b>5,908'</b>	
Tubing Size <b>2 3/8"</b>	Weight <b>4.7#</b>	Internal Diameter <b>1.995"</b>	Set at <b>5,908'</b>	Perforations To		
Type Completion (Describe) <b>Single</b>		Type Fluid Production <b>water</b>		Pump Unit or Traveling Plunger?		Yes / No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Producing Thru (Annulus / Tubing) <b>Tubing</b>		% Carbon Dioxide <b>0.307%</b>		% Nitrogen <b>2.234%</b>		Gas Gravity Gg <b>0.616</b>
Vertical Depth (H) <b>5,895'</b>		Pressure Taps <b>Flange</b>			(Meter Run) (Prover) Size <b>3.068"</b>	
Pressure Buildup: Shut in <b>09/26</b> 20 <b>10</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken <b>09/29</b> 20 <b>11</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM						
Well on Line: Started <b>09/29</b> 20 <b>11</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM Taken <b>09/30</b> 20 <b>11</b> at <b>9:00</b> <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 <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut In						0.0	0.0	396.0	410.4	72	0
Flow	2.000	90.2	22.2	79	75	0.0	0.0	316.8	331.2	24	0

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>b</sub> ) (F <sub>v</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F <sub>g</sub>	Flowing Temperature Factor F <sub>t</sub>	Deviation Factor F <sub>pr</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G <sub>m</sub>
21.8600	104.6	48.19	1.2741	0.9822	1.0077	1328		0.611

**(OPEN FLOW) (DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = **168.4** ;    (P<sub>w</sub>)<sup>2</sup> = **109.7** ;    P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> 14.4) + 14.4 = \_\_\_\_\_ ;    (P<sub>s</sub>)<sup>2</sup> = **0.207**  
(P<sub>d</sub>)<sup>2</sup> = **0**

(P <sub>c</sub> ) <sup>2</sup> (P <sub>a</sub> ) <sup>2</sup> or (P <sub>c</sub> ) <sup>2</sup> (P <sub>d</sub> ) <sup>2</sup>	(P <sub>c</sub> ) <sup>2</sup> (P <sub>w</sub> ) <sup>2</sup>	Choose Formula 1 or 2: 1. P <sub>c</sub> 2 P <sub>a</sub> 2 2. P <sub>c</sub> 2 P <sub>d</sub> 2 divided by: P <sub>c</sub> 2 P <sub>w</sub> 2	LOG of formula 1. or 2. and divide by:	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
168.2	58.7	2.864	0.457	0.8040	0.3674	2.3302	3095

Open Flow **3,095** Mcfd @ 14.65 psia      Deliverability **3,095** 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 **March**, 2011

\_\_\_\_\_  
Witness  
\_\_\_\_\_  
For Commission

**OXY USA INC**  
For Company  
*Tom Acton*  
**Tom Acton - OXY USA Inc.**  
Checked by

**RECEIVED**  
**MAR 24 2011**  
**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.

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MAR 24 2011  
KCC WICHITA



Tom Acton  
Mid-Continent Business Unit

**OXY USA Inc.**  
P. O. Box 27570 Houston, Texas 77227-7570

Phone 713.215.7623  
Fax 713.350.4873

March 22, 2011

Jim Hemmen  
Finney State Office Building  
130 South Market Street, Room 2078  
Wichita, Kansas 67202-3802

**RE: ONEIL 28-1**  
**15-129-21876-0000**  
**Section 28, Township 32 South, Range 39 West**  
**Morton County, Kansas**

Dear Mr. Hemmen:

Enclosed you will find the 2010 Open Flow test for the aforementioned well as requested in your previous email.

If you have questions, need additional information or would like to discuss the contents of this packet, please feel free to contact me.

Regards,

Tom Acton  
Gas Flow Coordinator  
Mid-Continent Business Unit  
Occidental Oil & Gas

Enclosures: 2010 Form G-2

Cc: Well Test File

RECEIVED  
MAR 25 2011  
KCC WICHITA