

# 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: **10/29/2010** API No. **15081218630000**

Company <b>OXY USA Inc</b>		Lease <b>ZM FARMS A 1</b>			Well Number	
County <b>Haskell</b>	Location <b>2310' FEL &amp; 860' FSL</b>	Section <b>11</b>	TWP <b>30S</b>	RNG (E/W) <b>32W</b>	Acres Attributed <b>640</b>	
Field <b>LOCKPORT</b>		Reservoir <b>Chester</b>		Gas Gathering Connection <b>Regency</b>		
Completion Date <b>02/26/2009</b>		Plug Back Total Depth <b>5,759'</b>		Packer Set at <b>5,407'</b>		
Casing Size <b>5 1/2"</b>	Weight <b>17.0#</b>	Internal Diameter <b>4.892"</b>	Set at <b>5,918'</b>	Perforations <b>5,419'</b>	To <b>5,424'</b>	
Tubing Size <b>2 3/8"</b>	Weight <b>4.7#</b>	Internal Diameter <b>1.995"</b>	Set at <b>5,402'</b>	Perforations	To	
Type Completion (Describe) <b>single</b>		Type Fluid Production <b>WATER</b>		Pump Unit or Traveling Plunger? <input type="checkbox"/> Yes / No <input checked="" type="checkbox"/> No		
Producing Thru (Annulus / Tubing) <b>Tubing</b>		% Carbon Dioxide <b>0.231%</b>		% Nitrogen <b>11.897%</b>		Gas Gravity Gg <b>0.713</b>
Vertical Depth (H) <b>5,422'</b>		Pressure Taps <b>Flange</b>			(Meter Run) (Prover) Size <b>3.068"</b>	
Pressure Buildup: Shut in <b>10/29</b> <b>20 10</b> at <b>2:00</b> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM Taken <b>11/01</b> <b>20 10</b> at <b>1:00</b> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM						
Well on Line: Started <b>11/01</b> <b>20 10</b> at <b>1:00</b> <input type="checkbox"/> AM <input checked="" type="checkbox"/> PM Taken <b>11/03</b> <b>20 10</b> at <b>1:00</b> <input type="checkbox"/> AM <input checked="" 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>c</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>e</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut In						0.0	0.0	535.1	549.5	72	0
Flow	1.125	77.7	28.2	82	75	0.0	0.0	310.1	324.5	48	0

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>w</sub> ) (F <sub>p</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>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G <sub>m</sub>
6.2510	92.1	50.96	1.1843	0.9795	1.0073	372		0.611

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>c</sub>)<sup>2</sup> = **302.0** ; (P<sub>w</sub>)<sup>2</sup> = **105.3** ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>w</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>c2</sub> P <sub>a2</sub> 2. P <sub>c2</sub> P <sub>d2</sub> divided by: P <sub>c2</sub> P <sub>w2</sub>	LOG of formula 1. or 2. and divide by:	(P <sub>c2</sub> P <sub>w2</sub> )	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
301.7	196.7	1.5342	0.1859	0.8460	0.1573	1.4365	534	

Open Flow **534** 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 **2** day of **March** **2011**

Witness

For Commission

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MAR 09 2011

KCC WICHITA

OXY USA INC

For Company  
*Tom Acton*  
Tom Acton - OXY USA Inc.  
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 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: \_\_\_\_\_

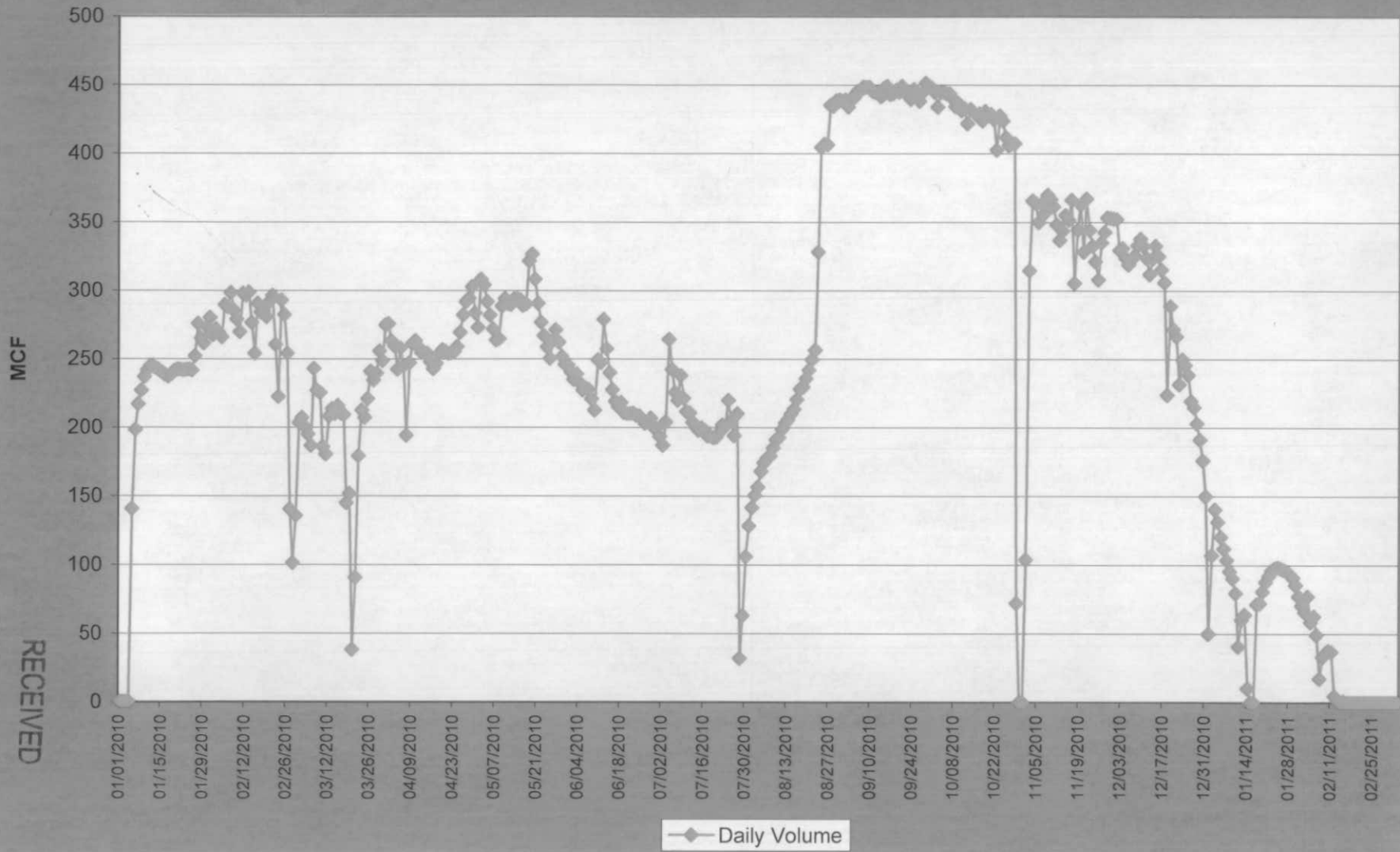
**Instructions:** If a gas well meets one of the eligibility criteria set out in the KCC regulation K.A.R. 82-3-304, the operator may complete the statement provided above in order to claim exempt status for the gas well.

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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# ZM Farms A-1



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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 8, 2011

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

**RE: ZM Farms A-1  
15-081-21863-0000  
Section 11, Township 30 South, Range 32 West  
Haskell County, Kansas**

Dear Mr. Hemmen:

Guess we have a little confusion on this well at Oxy. The well was tested in October/November 2010, but the results were not sent to you. When we noticed that no test had been filed in 2010, the field was asked to test the well. After reviewing your note about the 2011 test and discussing it with our field technician, he questioned why the test done in October/November 2010 was not filed. Attached is the calculated results of the test run in October/November 2010. Also attached is a production plot of the well. It shows that the well has declined dramatically, probably due to fluid loading, in the last three months. This is probably the reason for the poor test in January 2011.

Please note that the well was flowed for 48 hours since the tester did not feel that the well was drawn down appropriately after 24 hours.

The well has a packer set between two sets of Chester perforations and the well is produced from the bottom set of perforations up the tubing. The shut-in casing pressure during the test was 1,108.4. This pressure was not used in calculating the test due to the upper set of perforations are not produced in this well.

OXY is requesting an exemption from annual open flow testing due to this well is not capable of producing at a daily rate in excess of 250 million cubic feet per day.

As for the Green 4-j29-32-39, it was scheduled to be tested close to the end of the year then the hard weather came in and froze off everything and we struggled to keep wells on from there. In the process no test was done due to lack of man power. Oxy is asking the KCC to accept this 2011 open flow test as our 2010 open flow test due to the extreme weather conditions that happened in 2010.

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March 8, 2011  
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Regards,



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

Enclosures: 2010 Form G-2

Cc: Well Test File

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