

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

Form O-2  
(Rev. 7/03)

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date: **08/04/2011** API No. **15081219350000**

Company <b>OXY USA Inc</b>		Lease <b>ETTA MCCOY A 1</b>			Well Number	
County <b>Haskell</b>	Location <b>590' FSL &amp; 685' FWL</b>	Section <b>2</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>Oneok</b>		
Completion Date <b>06/24/2011</b>		Plug Back Total Depth <b>5,550'</b>		Packer Set at		
Casing Size <b>5 1/2"</b>	Weight <b>17.0#</b>	Internal Diameter <b>4.892"</b>	Set at <b>5,736'</b>	Perforations <b>5,342'</b>	To <b>5,368'</b>	
Tubing Size <b>2 7/8"</b>	Weight <b>6.5#</b>	Internal Diameter <b>2.441"</b>	Set at <b>5,431'</b>	Perforations	To	
Type Completion (Describe) <b>SINGLE-GAS</b>		Type Fluid Production <b>WATER</b>		Pump Unit or Traveling Plunger? <b>Yes - Beam Pump</b>		Yes / No
Producing Thru (Annulus / Tubing) <b>Annulus</b>		% Carbon Dioxide <b>1.920%</b>		% Nitrogen <b>11.505%</b>		Gas Gravity - Gg <b>0.741</b>
Vertical Depth (H) <b>5,355'</b>		Pressure Taps <b>Flange</b>			(Meter Run) (Prover) Size <b>3.068"</b>	
Pressure Buildup:	Shut in <b>08/03</b>	20 <b>11</b>	at <b>9:00</b>	Taken <b>08/04</b>	20 <b>11</b>	at <b>9:00</b>
Well on Line:	Shut in	20	at	Taken	20	at

### OBSERVED SURFACE DATA

Duration of Shut-in **24** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or 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>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						<b>381.3</b>	<b>395.7</b>			<b>24</b>	
Flow											

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>d</sub> ) (F <sub>s</sub> ) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension P <sub>m</sub> x 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>

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>e</sub>)<sup>2</sup> = **0.207**

(P<sub>c</sub>)<sup>2</sup> = \_\_\_\_\_ : (P<sub>w</sub>)<sup>2</sup> = **0.0** : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ :

(P<sub>d</sub>)<sup>2</sup> = **0**

(P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup> or (P <sub>d</sub> ) <sup>2</sup> - (P <sub>c</sub> ) <sup>2</sup>	(P <sub>d</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose Formula 1 or 2: 1. P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)

Open Flow **0** 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 **13** day of **September**, **2011**

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

\_\_\_\_\_  
OXY USA Inc.  
For Company  
**RECEIVED** David Ogden Oxy USA Inc. 

SEP 16 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 OXY USA Inc. 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 ETTA MCCOY A 1 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: September 13, 2011

Signature: David Ogden  
OXY USA Inc. 

Title: Gas Business Coordinator

**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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## Gas Analysis Certificate Report

<b>Well Name:</b>	ET MCCOY A-1	<b>Alternate ID:</b>	
<b>Analysis ID:</b>		<b>Company Name:</b>	OXY USA Inc.

<b>Effective Date:</b>	6/27/11 9:19 AM	<b>Saturated HV:</b>	940.4	<b>Sample Date:</b>	6/27/11
<b>Valid Through Date:</b>	06/27/12	<b>As Delivered HV:</b>		<b>Sample ID:</b>	
<b>Last Update:</b>	6/28/11 12:00 PM	<b>Dry HV:</b>	940.4	<b>Sample Type:</b>	SPOT
<b>Data Acquisition:</b>		<b>Gravity:</b>	0.7414	<b>Sample Pressure Base:</b>	14.730
<b>Data Source:</b>		<b>Status:</b>	ACTIVE	<b>Sample Temperature:</b>	0.0
				<b>Sample Pressure:</b>	0.0

Component	% Mol	GPM	
Methane	73.2456	12.4144	Gravity - Dry
Ethane	6.5390	1.7476	Gravity - Saturated
Propane	3.6480	1.0044	
I Butane	0.6210	0.2031	
N Butane	1.1710	0.3692	
I Pentane	0.2970	0.1087	
N Pentane	0.3640	0.1318	
Hexane	0.4840	0.1990	
Heptane	0.0000	0.0000	
Octane	0.0000	0.0000	
Nonane	0.0000	0.0000	
Decane	0.0000	0.0000	
Nitrogen	11.5050	1.2654	
CO2	1.9204	0.3257	
Oxygen	0.0000	0.0000	
H2O	0.0000	0.0000	
CO	0.0000	0.0000	
H2S	0.0000	0.0000	
Hydrogen	0.0000	0.0000	
Helium	0.2050	0.0000	
Argon	0.0000	0.0000	
<b>Total</b>	<b>100.0000</b>	<b>17.7693</b>	

Sample Comments:

Configuration Comments:

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Tom Acton  
Mid-Continent Business Unit

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

Phone 713.350.4781  
Fax 713.350.4873

September 13, 2011

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

**RE: Etta McCoy A-1**  
**15-081-21935-0000**  
**Section 2, Township 30 South, Range 32 West**  
**Haskell County, Kansas**

Dear Mr. Hemmen:

Enclosed you will find the 2011 Open Flow test for the aforementioned well.

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

Regards,

David Ogden  
Gas Business Coordinator  
Mid-Continent Business Unit  
Occidental Oil & Gas

Enclosures: 2011 Form G-2  
Gas Analysis

Cc: Well Test File

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**SEP 16 2011**  
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