

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

Form G 2  
(Rev. 7/03)

Type Test:

- Open Flow  
 Deliverability

Test Date: **03/26/2012** API No. **1512910000000**

*(See Instructions on Reverse Side)*

Company <b>OXY USA Inc</b>		Lease <b>BROWN E 1</b>			Well Number	
County <b>Morton</b>	Location <b>1300 FEL &amp; 2600 FSL</b>	Section <b>35</b>	TWP <b>32S</b>	RNG (EW) <b>43W</b>	Acres Attributed <b>640</b>	
Field <b>GREENWOOD</b>		Reservoir <b>WABAUNSEE</b>		Gas Gathering Connection <b>Regency</b>		
Completion Date <b>06/01/1955</b>		Plug Back Total Depth <b>2,790'</b>		Packer Set at		
Casing Size <b>5 1/2"</b>	Weight <b>14.0#</b>	Internal Diameter <b>5.012"</b>	Set at <b>3,284'</b>	Perforations <b>2,704'</b>	To <b>2,712'</b>	
Tubing Size <b>2 3/8"</b>	Weight <b>4.7#</b>	Internal Diameter <b>1.995"</b>	Set at <b>2,709'</b>	Perforations	To	
Type Completion (Describe) <b>SINGLE-GAS</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>Annulus</b>		% Carbon Dioxide <b>0.233%</b>		% Nitrogen <b>19.837%</b>		Gas Gravity Gg <b>0.809</b>
Vertical Depth (H) <b>2,708'</b>		Pressure Taps <b>Flange</b>		(Meter Run) (Prover) Size <b>4.068"</b>		
Pressure Buildup: Shut in <b>03/23</b> 20 <b>12</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		Taken <b>03/26</b> 20 <b>12</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM				
Well on Line: Started <b>03/25</b> 20 <b>12</b> at <b>9:00</b> <input checked="" type="checkbox"/> AM <input type="checkbox"/> PM		Taken <b>03/26</b> 20 <b>12</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>cs</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Tubing Wellhead Pressure (P <sub>ts</sub> ) or (P <sub>1</sub> ) or (P <sub>2</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut In						182.0	196.4	182.0	196.4	72	0
Flow	1.250	28	142	56	65	15.0	29.4	0.0	0.0	72	0

**FLOW STREAM ATTRIBUTES**

Plate Coefficient (F <sub>d</sub> ) (F <sub>s</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>w</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G <sub>m</sub>
6.1860	42.4	77.59	1.1118	1.0039	1.0044	480		

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

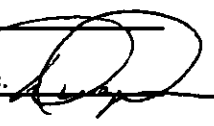
$(P_w)^2 = 38.6$  ;  $(P_w)^2 = 0.9$  ;  $P_d =$  %  $(P_c 14.4) + 14.4 =$  ;  $(P_w)^2 = 0.207$   
 $(P_d)^2 = 0$

(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> P <sub>a</sub> <sup>2</sup> 2. P <sub>c</sub> P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by:	(P <sub>c</sub> P <sub>w</sub> )	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
38.6	37.7	1.0246	0.0106	0.8500	0.0090	1.0209	490	

Open Flow **490** Mcfd @ 14.65 psia Deliverability **490** Mcfd @ 14.85 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 **27** day of **March**, **2012**

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

**RECEIVED**  
**MAR 29 2012**  
**OXY USA INC**  
 For Company  
**David Ogden - OXY USA Inc.**  
 Checked by   
**KCC WICHITA**