

KANSAS CORPORATION COMMISSION

Form G-2  
(Rev. 7/03)

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test: ANNUAL

Open Flow

Test Date: 12/19/2012

API No. 16 - 189-22540-0000

Deliverability

Company <b>EOG RESOURCES, INC.</b>		Lease <b>GPCU</b>		Well Number <b>25 #1</b>	
County <b>STEVENS</b>	Location <b>SW-NE-SE-SE</b>	Section <b>25</b>	TWP <b>33S</b>	RNG (E/W) <b>39W</b>	Acres Attributed
Field <b>UPPER MORROW</b>			Gas Gathering Connection <b>ANADARKO PETROLEUM CORP.</b>		
Completion Date <b>7-21-06</b>		Plug Back Total Depth <b>5977'</b>		Packer Set at	
Casing Size <b>4-1/2"</b>	Weight <b>10.5#</b>	Internal Diameter <b>4.052</b>	Set at <b>6056'</b>	Perforations <b>5843'</b>	To <b>5864'</b>
Tubing Size <b>2-3/8"</b>	Weight <b>4.7#</b>	Internal Diameter <b>1.895</b>	Set at <b>5939'</b>	Perforations	To
Type Completion (Describe) <b>SINGLE</b>	Type Fluid Production <b>WATER</b>	Pump Unit or Traveling Plunger?		Yes / No <input checked="" type="checkbox"/>	
Producing Thru (Annulus / Tubing) <b>ANNULUS/TUBING</b>		% Carbon Dioxide <b>0.394</b>	% Nitrogen <b>4.975</b>	Gas Gravity-G <sub>g</sub> <b>.772</b>	
Vertical Depth (H) <b>58.54</b>		Pressure Taps <b>FLANGE</b>		(Meter Run) (Prover) Size <b>6.068</b>	
Pressure Buildup: Shut in _____ 20 _____ at _____		taken _____ 20 _____ at _____			
Well on Line: Started _____ 20 _____ at _____		taken <b>12/19</b> 20 <b>12</b> at <b>11:45 AM</b>			

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KCC WICHITA

OBSERVED SURFACE DATA

Duration of Shut-in \_\_\_\_\_ Hours

Static/Dynamic Property	Orifice Size Inches	Circle One Meter or Prover Pressure psig	Pressure Differential in (h) Inches H <sub>2</sub> O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P <sub>o</sub> for (P <sub>1</sub> )(P <sub>2</sub> ))		Tubing Wellhead Pressure (P <sub>o</sub> for (P <sub>1</sub> )(P <sub>2</sub> ))		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						*249	263.4	*49	63.4		
Flow	1.000	32.2	74.5	49		227	241.4	45	59.4	24	27 WTR

FLOW STREAM ATTRIBUTES

*\* Obtained by alternate testing method*

Plate Coefficient (F <sub>1</sub> )(F <sub>2</sub> ) Mcfd	Circle One Meter or Prover Pressure psig	Press Extension $\sqrt{R_m \times h_w}$	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>
4.847	46.6	58.9211	1.1381	1.0108	1.0065	331		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>o</sub>)<sup>2</sup> **69.38** ; (P<sub>w</sub>)<sup>2</sup> **\*56.17** ; P<sub>0</sub> = \_\_\_\_\_ % (P<sub>0</sub> - 14.4) + 14.4 = \_\_\_\_\_ ; (P<sub>0</sub>)<sup>2</sup> **0.207** ; (P<sub>w</sub>)<sup>2</sup> **.207**

$\frac{(P_o)^2(P_w)^2}{(P_c)^2(P_d)^2}$	$\frac{2}{(F_c) - (P_w)^2}$	Choose formula 1 or 2: 1. $P_o^2 - P_w^2$ 2. $P_o^2 - P_d^2$ 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 = "m" or Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog Mcfd
69.173	13.21	5.23641	.7190336	** .886	.63706	4.3357	1435

Open Flow Mcfd @ 14.65 psia Deliverability 1435 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 20th day of December, 20 12.

Witness (if any) \_\_\_\_\_  
For Commission \_\_\_\_\_

*Stephen* = Thurmond-McGlothlin  
For Company \_\_\_\_\_  
Checked by \_\_\_\_\_

\*\* DUE TO PIPELINE VOLUME CONSTRAINTS, OPERATOR WAS UNABLE TO PERFORM REPRESENTATIVE 4-PT. KCC ASSIGNED .886 SLOPE BASED ON AVG OF SURROUNDING WELLS