

# KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
6/12 to 6/13/14

API No. 15  
119-21,311-00-00

Company Edison Operating		Lease J. Adams		Well Number 1-12	
County Meade	Location NWSENE	Section 12	TWP 35S	RNG (E/W) 30W	Acres Attributed
Field <b>Adams Ranch</b>		Reservoir Morrow		Gas Gathering Connection DCP	
Completion Date 2/12		Plug Back Total Depth		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 6390	Perforations 5848	To 5870
Tubing Size 2.375	Weight	Internal Diameter	Set at 5815	Perforations	To
Type Completion (Describe) single (Gas)		Type Fluid Production <b>Saltwater</b>		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .210		% Nitrogen 2.163	
Gas Gravity - G <sub>g</sub> .650		Vertical Depth(H)		Pressure Taps flange	
				(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in 6/09		20 14 at 10:15 am (AM) (PM)		Taken 6/12	
				20 14 at 10:15 am (AM) (PM)	
Well on Line: Started 6/12		20 14 at 10:15 am (AM) (PM)		Taken 6/13	
				20 14 at 10:15 am (AM) (PM)	

### OBSERVED SURFACE DATA

Duration of Shut-in 72 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>t</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>t</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						303	317.4			72	
Flow	.750	40	1.4	68		284	298.4			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>b</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>
2.740	54.4	8.72	1.240	.9924	-----	29		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

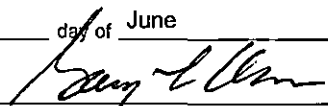
(P<sub>c</sub>)<sup>2</sup> = 100.742 ; (P<sub>w</sub>)<sup>2</sup> = 89.042 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ ;

(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>a</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>a</sub> <sup>2</sup> 2. P <sub>c</sub> <sup>2</sup> - P <sub>d</sub> <sup>2</sup> divided by: P <sub>c</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup>	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
100.535	11.70	8.592	.9341	.850	.7939	6.22	180
				assigned			

Open Flow **180** Mcfd @ 14.65 psia X .50 = Deliverability **90** 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 19th day of June, 20 14.

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

  
 For Company  
**KCC WICHITA**  
 Checked by  
**JUN 23 2014**  
**RECEIVED**