

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
7/21 to 7/22/14

API No. 15-095-20,308-0000

Company Gemini Oil Co			Lease No. Ratcliffe		Well Number 1-A
County Kingman	Location CSENWSESW	Section 19	TWP 27S	RNG (E/W) 10W	Acres Attributed
Field Cunningham		Reservoir Towanda	Gas Gathering Connection Oneok		
Completion Date 6/22/73		Plug Back Total Depth		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 1750	Perforations 1666	To 1676
Tubing Size 2.375	Weight	Internal Diameter	Set at 1667	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No No	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .160		% Nitrogen 16.979	Gas Gravity - G <sub>g</sub> .744
Vertical Depth(H)		Pressure Taps flange			(Meter Run) (Prover) Size 3"
Pressure Buildup: Shut in 7/18		20 14 at 4:15 pm (AM) (PM)		Taken 7/21 20 14 at 4:15 pm (AM) (PM)	
Well on Line: Started 7/21		20 14 at 4:15 pm (AM) (PM)		Taken 7/22 20 14 at 4:15 pm (AM) (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>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						118.9	133.3			72	
Flow	.375	37.0	1.2	83		104.8	119.2			24	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>p</sub> ) (F <sub>g</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 (Mcf/d)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
.6848	51.4	7.85	1.159	.9786	-----	6		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

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

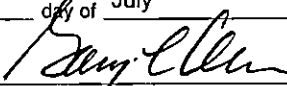
(P<sub>c</sub>)<sup>2</sup> = 17.768 ; (P<sub>w</sub>)<sup>2</sup> = 14.208 ; P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ :

(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>c</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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcf/d)
17.561	3.56	4.932	.6930	.850	.5890	3.88	23
				assigned			

Open Flow 23 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 31st day of July, 20 14.

\_\_\_\_\_  
Witness (if any)

  
\_\_\_\_\_  
For Company

**KCC WICHITA**

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

Checked by

AUG 07 2014

RECEIVED