

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
5/21 to 5/24/15

API No. 15  
025-21,488-00-00

Company Falcon Exploration		Lease YBC		Well Number 1-34	
County Clark	Location SENWSWNW	Section 34	TWP 30S	RNG (E/W) 22W	Acres Attributed
Field unknown		Reservoir Morrow Sand		Gas Gathering Connection Lost River	
Completion Date 12/09/09		Plug Back Total Depth 5625		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 5640	Perforations 5330	To 5338
Tubing Size 2.375	Weight	Internal Diameter	Set at 5168	Perforations	To
Type Completion (Describe) single		Type Fluid Production none		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide .024		% Nitrogen 5.5196	
Vertical Depth(H)		Pressure Taps Flange		(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in 5/18		20 15 at 1:30 pm (AM) (PM)		Taken 5/21 20 15 at 1:30 pm (AM) (PM)	
Well on Line: Started 5/21		20 15 at 1:30 pm (AM) (PM)		Taken 5/24 20 15 at 1:30 pm (AM) (PM)	

KCC WICHITA  
MAY 28 2015  
RECEIVED  
5-28-15

### OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter or Prover Pressure (Pm) psig	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>1</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>1</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						865.0	879.4	599	613.4	72	
Flow	1.250	17	8.0	69		820.0	834.4	450	464.4	72 (rain!)	

### FLOW STREAM ATTRIBUTES

Plate Coefficient (F <sub>s</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>
8.329	31.4	15.85	1.252	.9915		164		

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>e</sub>)<sup>2</sup> = 773.344 : (P<sub>w</sub>)<sup>2</sup> = 696.223 : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>u</sub>)<sup>2</sup> = 0.207  
(P<sub>o</sub>)<sup>2</sup> = \_\_\_\_\_

(P <sub>e</sub> ) <sup>2</sup> - (P <sub>o</sub> ) <sup>2</sup> or (P <sub>e</sub> ) <sup>2</sup> - (P <sub>o</sub> ) <sup>2</sup>	(P <sub>e</sub> ) <sup>2</sup> - (P <sub>w</sub> ) <sup>2</sup>	Choose formula 1 or 2: 1. P <sub>e</sub> <sup>2</sup> - P <sub>w</sub> <sup>2</sup> 2. P <sub>e</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>e</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)
773.137	77.121	10.024	1.001	.786	.7868	6.12	1004

Open Flow 1004 Mcfd @ 14.65 psia X .50 = Deliverability 502 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 24th day of May, 2015.

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

For Company  
 GCM, INC.  
 Checked by