

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

Type Test:

- Open Flow  
 Deliverability

(See Instructions on Reverse Side)

Test Date:  
3/19/13

API No. 15  
025-21508-0000

Company Falcon Exploration		Lease Swayze		Well Number 1-17	
County Clark	Location 330FSL & 2410FEL	Section 17	TWP 30S	RNG (E/W) 22W	Acres Attributed
Field SWAYZE		Reservoir Inola		Gas Gathering Connection <del>none</del> Lost River	
Completion Date 10/26/10		Plug Back Total Depth 6552		Packer Set at none	
Casing Size 5.5	Weight 15.5	Internal Diameter 6.556	Set at →	Perforations 5302-07	To
Tubing Size 2.875	Weight 6.5	Internal Diameter	Set at 5270	Perforations OPEN	To
Type Completion (Describe) single		Type Fluid Production none		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .0000		% Nitrogen 6.418	
Vertical Depth(H)		Pressure Taps		Gas Gravity - G <sub>g</sub> .655	

Pressure Buildup: Shut in \_\_\_\_\_ 20 \_\_\_\_\_ at \_\_\_\_\_ (AM) (PM) Taken 3/19 \_\_\_\_\_ 20 13 at 10:00 am (AM) (PM)  
Well on Line: Started 3/19 \_\_\_\_\_ 20 13 at 10:45 am (AM) (PM) Taken 3/19 \_\_\_\_\_ 20 13 at 1:45 am (AM) (PM)

### OBSERVED SURFACE DATA

Duration of Shut-in 72+ Hours

Static / Dynamic Property	Orifice Size (Inches)	Circle one: Meter Prover Pressure psig (P <sub>m</sub> )	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>i</sub> ) or (P <sub>c</sub> )		Tubing Wellhead Pressure (P <sub>w</sub> ) or (P <sub>i</sub> ) or (P <sub>c</sub> )		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						1440	1454.4	1340	1354.4	72+	
Flow	.750	204	14.3	61		1382	1396.4	1265	1279.4	3	0

### 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>tt</sub>	Deviation Factor F <sub>pv</sub>	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G <sub>m</sub>
2.779	218.4	55.88	1.236	.9990	1.022	196		.655

### (OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P<sub>o</sub>)<sup>2</sup> = 2115.279 : (P<sub>w</sub>)<sup>2</sup> = 1949.932 : P<sub>d</sub> = \_\_\_\_\_ % (P<sub>c</sub> - 14.4) + 14.4 = \_\_\_\_\_ : (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = \_\_\_\_\_

(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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
2115.072	165.437	12.791	1.107	.850	.9409	8.72	1710
				assigned			

Open Flow **1710** Mcfd @ 14.65 psia X .25 = Deliverability **427.5** 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 29th day of March, 20 13

*[Signature]*  
For Company  
GEM, INC.

RECEIVED  
KANSAS CORPORATION COMMISSION

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

Checked by \_\_\_\_\_  
AUG 22 2013