

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 5/22/15

API No. 15
069-20,469-00-00

Company Falcon Exploration, Inc.		Lease Goossen		Well Number 2-14	
County Gray	Location SENWSESW	Section 14	TWP 28S	RNG (E/W) 30W	Acres Attributed
Field Renegade SE		Reservoir Lansing A & B		Gas Gathering Connection Oneok	
Completion Date 4/24/14		Plug Back Total Depth 4340 CIBP		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 4493	Perforations 4208	To 4236
Tubing Size 2.375	Weight	Internal Diameter	Set at 4212	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 .0276		% Nitrogen 33.643	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5/18 20 15 at 10:30 am (AM) (PM)		Taken 5/21 20 15 at 10:30 am (AM) (PM)			
Well on Line: Started 5/21 20 15 at 10:30 am (AM) (PM)		Taken 5/22 20 15 at 10:30 am (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 psig (Pm)	Pressure Differential in Inches H ₂ O	Flowing Temperature t	Well Head Temperature t	Casing Wellhead Pressure (P _w) or (P _f) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _f) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						590	604.4	495	509.4	72	
Flow	1.250	96	14.0	74		541	555.4	358	372.4	24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _p) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _o
8.329	110.4	39.31	1.159	.9868		374		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 365.299 : (P_w)² = 308.469 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_o)² = 0.207
(P_o)² = _____

(P _c) ² - (P _o) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _a ² 2. P _c ² - P _d ² divided by: P _c ² - P _w ²	LOG of formula 1. or 2. and divide by: $\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2}$	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG $\left[\frac{P_c^2 - P_w^2}{P_c^2 - P_d^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
365.092	56.83	6.424	.8078	.823	.6648	4.62	1728

Open Flow 1728 Mcfd @ 14.65 psia x .50 = Deliverability 864 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 22nd day of May, 2015.

Witness (if any)

For Commission

For Company

Checked by