

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

15-069-20320-00-00

API No. 15-
069-20230

Company Falcon Exploration		Lease Fry		Well Number 1-23	
County Gray	Location NESWNEW	Section 23	TWP 28S	RNG (E/W) 30W	Acres Attributed
Field Renegade SE		Reservoir Lansing		Gas Gathering Connection Oneok	
Completion Date 12/10/10		Plug Back Total Depth 4411		Packer Set at none	
Casing Size 5.5	Weight	Internal Diameter	Set at 4425	Perforations 4186	To 4271
Tubing Size 2.375	Weight	Internal Diameter	Set at 4156	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 .0000		% Nitrogen 35.6901	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 5/18 20 15 at 10:45 am (AM) (PM)		Taken 5/21 20 15 at 10:45 am (AM) (PM)			
Well on Line: Started 5/21 20 15 at 10:45 am (AM) (PM)		Taken 5/22 20 15 at 10:45 am (AM) (PM)			

KCC WICHITA
MAY 28 2015
RECEIVED
5-28-15

OBSERVED SURFACE DATA

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 ₁) or (P _c)		Tubing Wellhead Pressure (P _w) or (P ₁) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						604.0	618.4			72	
Flow	1.000	93	11.6	52		460.0	474.4			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (F _p) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_w \times h}$	Gravity Factor F _g	Flowing Temperature Factor F _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
5.073	107.4	35.29	1.104	1.008		199		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 382.418 : (P_w)² = 225.055 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_w)² = 0.207

(P _c) ² - (P _w) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w 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 []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
382.211	157.363	2.429	.3854	.649	.2501	1.78	354

Open Flow 354 Mcfd @ 14.65 psia X .50 = Deliverability 177 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 Company

Checked by

For Commission