

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

KCC WICHITA

NOV 01 2013

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
10-8-13

API No. 15
15-081-22024 - 0000

RECEIVED

Company WESTERN PACIFIC FARMS, INC.		Lease LONGWOOD		Well Number 2	
County HASKELL	Location SE	Section 18	TWP 28S	RNG (E/W) 31W	Acres Attributed 640
Field HUGOTON		Reservoir CAHSE		Gas Gathering Connection FARM	
Completion Date 7-30-13		Plug Back Total Depth 2813		Packer Set at NONE	
Casing Size 5.5	Weight 15.5	Internal Diameter 4.950	Set at 2813	Perforations 2745	To 2782
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 2971	Perforations	To
Type Completion (Describe) SINGLE GAS		Type Fluid Production WATER		Pump Unit or Traveling Plunger? Yes / No YES-PUMP	
Producing Thru (Annulus / Tubing) ANNULUS		% Carbon Dioxide 0.031		% Nitrogen 20.050	
Vertical Depth(H) 2764		Pressure Taps FLANGE		(Meter Run) (Prover) Size 2.067"	
Pressure Buildup: Shut in 10-4-13 20 at 0900 (AM) (PM)		Taken 10-7-13 20 at 0900 (AM) (PM)			
Well on Line: Started 10-7-13 20 at 0900 (AM) (PM)		Taken 10-8-13 20 at 0900 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in **72.0** Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter 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 _i) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						149.2	163.6			72.0	
Flow	0.750	47.8	26.0		75	48.10	62.5			24.0	1.0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (F _v) Mcfd	Circle one: Meter or Prover Pressure psia	Press Extension $\sqrt{P_m \times h}$	Gravity Factor F _v	Flowing Temperature Factor F _t	Deviation Factor F _{pr}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
2.7783	62.20	40.21	1.1704	1.0632	1.0073	140.0	NONE	0.730

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = **26.8** ; (P_w)² = **3.9** ; P_d = **38.2** % ; (P_c - 14.4) + 14.4 = **163.6** ; (P_s)² = **0.207** ; (P_d)² = _____

(P _c) ² - (P _s) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _s 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_s^2}$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
26.56	22.83	1.162	0.0653	0.850	0.0555	1.1363	159.14

Open Flow **159**

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 8 day of OCTOBER, 20 13.

Witness (if any)

For Commission



For Company

Checked by