

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
4/21 to 4/22/14

API No. 15
151-20671-00-00

Company Griffin Management		Lease Curtis		Well Number 1	
County Pratt	Location S/2 S/2	Section 2	TWP 27S	RNG (EW) 15W	Acres Attributed
Field		Reservoir Miss	Gas Gathering Connection Oneck		
Completion Date 3/25/80		Plug Back Total Depth 4594	Packer Set at none		
Casing Size 5.5	Weight	Internal Diameter	Set at 4608	Perforations 4421	To 4423
Tubing Size 2.375	Weight	Internal Diameter	Set at 4600	Perforations	To
Type Completion (Describe) single		Type Fluid Production Oil/SW	Pump Unit or Traveling Plunger? Yes / No Yes - Traveling plunger		
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .2166	% Nitrogen 4.6067	Gas Gravity - G _g .659	
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in		4/18	20 14	at 8:45 am	(AM) (PM) Taken
Well on Line: Started		4/21	20 14	at 8:45 am	(AM) (PM) Taken

OBSERVED SURFACE DATA

Duration of Shut-in 72 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 _e)		Tubing Wellhead Pressure (P _w) or (P _i) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						333.0	347.4			72	
Flow	.625	50.0	114.0	75		266.4	280.8			24	0

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 _{tt}	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/Barrel)	Flowing Fluid Gravity G _n
1.914	64.6	85.68	1.232	.9859	-----	199		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = 120.686 ; (P_w)² = 78.848 ; P_d = _____ % (P_e - 14.4) + 14.4 = _____ ; (P_d)² = 0.207 ; (P_d)² = _____

(P _e) ² - (P _a) ² or (P _e) ² - (P _d) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _a ² 2. P _e ² - P _d ² divided by: P _e ² - P _w ²	LOG of formula 1, or 2, and divide by: $\left[\frac{P_e^2 - P_a^2}{P_e^2 - P_w^2} \right]$	Backpressure Curve Slope = "n" ----- Assigned Standard Slope	n x LOG $\left[\frac{P_e^2 - P_a^2}{P_e^2 - P_w^2} \right]$	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
120.479	41.838	2.879	.4592	.850	.3903	2.45	487.5

Open Flow **487.5**

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 29th day of April, 20 14.

Witness (if any)

For Commission

For Company
Checked by

KCC WICHITA

MAY 01 2014

RECEIVED