

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
12/13/2016

API No. 15
15-189-21622 - 0000

Company Wynn-Crosby Operating, Ltd.		Lease Mayberry "B"		Well Number 1	
County Stevens	Location N/2 SE	Section 12	TWP 33	RNG (E/W) 38W	Acres Attributed 640
Field Gentzler		Reservoir Morrow	Gas Gathering Connection Merit		
Completion Date 11/09/2016		Plug Back Total Depth 5,880	Packer Set at 4,680		
Casing Size 5.5	Weight 15.5	Internal Diameter 4.950	Set at 6,313	Perforations 5,631	To 5,636
Tubing Size 2.375	Weight 4.7	Internal Diameter 1.995	Set at 4,680	Perforations	To
Type Completion (Describe) Single		Type Fluid Production Condensate	Pump Unit or Traveling Plunger? Yes / No None		
Producing Thru (Annulus / Tubing) Tubing		% Carbon Dioxide 0.3319	% Nitrogen 6.6852	Gas Gravity - G _g 0.7171	
Vertical Depth(H)		Pressure Taps Flange		(Meter Run) (Prover) Size 3	
Pressure Buildup: Shut in 11/08 20 16 at 08:00 (AM) (PM)		Taken 11/09 20 16 at 08:00 (AM) (PM)			
Well on Line: Started 11/09 20 16 at 08:00 (AM) (PM)		Taken 12/12 20 16 at 06:00 (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in _____ Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (P _m)	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							0	1351	1365	24	
Flow							0	525	539	24	4

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _c) (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 _m
Total flow meter	46					2096	524000	

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1864 : (P_w)² = 291 : P_d = _____ % (P_c - 14.4) + 14.4 = _____ : (P_a)² = 0.207
(P_d)² = _____

(P _c) ² - (P _a) 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: $\frac{P_c^2 - P_w^2}{P_c^2 - P_a^2}$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1864	1573	1.1848	.0736	1.000	.0736	1.185	2480

Open Flow 2480

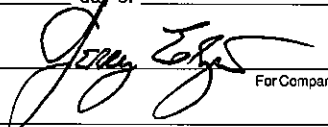
Mcfd @ 14.65 psia

Deliverability 2096

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 14th day of February, 20 18.

Received
KANSAS CORPORATION COMMISSION


For Company

Witness (if any)

For Commission

FEB 20 2018

CONSERVATION DIVISION
WICHITA, KS

Checked by