

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

(See Instructions on Reverse Side)

Type Test:

- Open Flow
- Deliverability

Test Date:
11-14-14

API No. 15
15-067-2179-00-00

Company MERIT ENERGY COMPANY, LLC		Lease STEVER ATU		Well Number C-5	
County GRANT	Location NW NW NW NW	Section 1	TWP 28S	RNG (E/W) 36W	Acres Attributed
Field HUGPAN		Reservoir CHASE & COUNCIL GROVE		Gas Gathering Connection ONEOK	
Completion Date 9-10-14		Plug Back Total Depth 3150		Packer Set at NONE	
Casing Size 5.5	Weight 17.0	Internal Diameter 4.892	Set at 3254	Perforations 2592	To 2965
Tubing Size	Weight	Internal Diameter	Set at	Perforations	To

KCC WICHITA

DEC 08 2014

RECEIVED

Type Completion (Describe) COMINGLED GAS	Type Fluid Production NONE	Pump Unit or Traveling Plunger? NO	Yes / No
Producing Thru (Annulus / Tubing) ANNULUS	% Carbon Dioxide 0.055	% Nitrogen 14.724	Gas Gravity - G _g .710
Vertical Depth(H) 2779	Pressure Taps FLANGE	(Meter Run) (Prover) Size 2.067"	
Pressure Buildup: Shut In	11-10-14 20 at 0900 (AM) (PM)	Taken	11-13-14 20 at 0900 (AM) (PM)
Well on Line: Started	11-13-14 20 at 0900 (AM) (PM)	Taken	11-14-14 20 at 0900 (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 72.0 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 _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						25.7	40.1			72.0	
Flow	1.250	11.3	30.6	47	75	13.7	28.1			24.0	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _s) (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 _{st}
8.3283	25.70	28.04	1.1868	1.0127	1.0023	281.4	NONE	0.710

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 1.6 ; (P_w)² = 0.8 ; P₀ = 70.5 % (P_c - 14.4) + 14.4 = 40.1 ; (P₀)² = 0.207

(P _c) ² - (P _w) ² or (P _c) ² - (P ₀) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _w ² 2. P _c ² - P ₀ ² divided by P _c ² - P _w ²	LOG of formula 1 or 2, and divide by P _c ² - P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1.40	0.81	1.731	0.2384	0.850	0.2026	1.5945	448.61

Open Flow 449 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 14 day of NOVEMBER, 20 14

Copy to KCC Wichita
Witness (if any)

Precision Wire Line & Testings
For Company

Mandy Buel
Checked by

Merit Energy Co. - Janna Burston

For Commission