

KANSAS CORPORATION COMMISSION

ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

(See Instructions on Reverse Side)

- Open Flow
 Deliverability

Test Date:
11-14-14

API No. 15
15-067-21789 - 00-00

Company MERIT ENERGY COMPANY, LLC			Lease ADAMS ATU		Well Number N-5
County GRANT	Location SE NW NW NW	Section 30	TWP 27S	RNG (E/W) 35W	Acres Attributed
Field HUGPAN		Reservoir CHASE & COUNCIL GROVE		Gas Gathering Connection ONEOK	
Completion Date 8-14-14		Plug Back Total Depth 3202		Packer Set at NONE	
Casing Size 5.5	Weight 17.0	Internal Diameter 4.892	Set at 3245	Perforations 2613	To 2988
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? Yes / No NO	
Producing Thru (Annulus / Tubing) ANNULUS	% Carbon Dioxide 0.042	% Nitrogen 14.366	Gas Gravity - G _g .713
Vertical Depth(H) 2801	Pressure Taps FLANGE		(Meter Run) (Prover) Size 2.067"
Pressure Buildup: Shut in	11-10-14	20	at 0915 (AM) (PM) Taken 11-13-14 20 at 0915 (AM) (PM)
Well on Line: Started	11-13-14	20	at 0915 (AM) (PM) Taken 11-14-14 20 at 0915 (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 _c) or (P _e)		Tubing Wellhead Pressure (P _w) or (P _c) or (P _e)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-in						27.6	42.0			72.0	
Flow	1.000	14.5	19.1	42	75	14.9	29.3			24.0	0

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _e) (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 _m
5.0728	28.90	23.49	1.1843	1.0178	1.0027	144.0	NONE	0.713

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_e)² = 1.8 : (P_w)² = 0.9 : P_d = 69.9 % (P_e - 14.4) + 14.4 = 42.0 : (P_e)² = 0.207 (P_d)² =

(P _e) ² - (P _d) ² or (P _e) ² - (P _w) ²	(P _e) ² - (P _w) ²	Choose formula 1 or 2: 1. P _e ² - P _d ² 2. P _e ² - P _w ² divided by: P _e ² - P _w ²	LOG of formula 1. or 2. and divide by: P _e ² - P _w ²	Backpressure Curve Slope = "n" or Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
1.56	0.90	1.724	0.2364	0.850	0.2010	1.5884	228.81

Open Flow 229 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 Wireline & Testing
For Company
Marky Paul
Checked by

For Commission

Merit Energy Co. - Janna Burton