

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date
9/12 to 9/13/14

API No 15
025-10,072-00-00

Company Benchmark Energy, LLC		Lease Theis		Well Number J-1	
County Clark	Location CSW	Section 27	TWP 34S	RNG (E/W) 25W	Acres Attributed
Field McKinney		Reservoir Miss/Morrow		Gas Gathering Connection DCP	
Completion Date 10/12/57		Plug Back Total Depth		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at	Perforations 5662	To 5724
Tubing Size 2.375	Weight	Internal Diameter	Set at 5650	Perforations	To
Type Completion (Describe) single		Type Fluid Production SW		Pump Unit or Traveling Plunger? Yes / No Yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide		% Nitrogen	
Vertical Depth(H)		Pressure Taps flange		Gas Gravity - G _g .650 est	
				(Meter Run) (Prover) Size 2"	
Pressure Buildup	Shut in 9/09	20 14	at 10:15am	(AM) (PM) Taken 9/12	20 14
					at 10:15 am (AM) (PM)
Well on Line	Started 9/12	20 14	at 10.15 am	(AM) (PM) Taken 9/13	20 14
					at 10:15 am (AM) (PM)

OBSERVED SURFACE DATA

Duration of Shut-in 72 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 _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						125.5	139.9			72	
Flow	.375	84	56.2	72		114.4	128.8			24	

FLOW STREAM ATTRIBUTES

Plate Coefficient (F _b) (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
.6860	98.4	74.36	1.240	.9887	-----	62		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

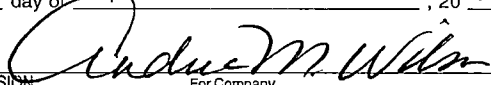

(P_c)² = 19.572 (P_w)² = 16.589 P_d = _____ % (P_c - 14.4) + 14.4 = _____ (P_a)² = 0.207
(P_d)² = _____

(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" ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
19.365	2.983	6.491	.8123	.850	.6904	4.90	304
				assigned			

Open Flow 304 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 14th day of September, 20 14

Received
KANSAS CORPORATION COMMISSION


 For Company

 Checked by

OCT 09 2014

Witness (if any) _____
 For Commission _____