

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

(See Instructions on Reverse Side)

Test Date:
6/12 to 6/13/14

API No. 15
119-21,272-00-00

Company Edison Operating		Lease Adams		Well Number 1-30	
County Meade	Location N/2SWSENW	Section 30	TWP 34S	RNG (E/W) 30W	Acres Attributed
Field Kneeland South		Reservoir Chester		Gas Gathering Connection DCP	
Completion Date 10/10		Plug Back Total Depth 5850 CIBP		Packer Set at none	
Casing Size 4.5	Weight	Internal Diameter	Set at 6231	Perforations 5720	To 5762
Tubing Size 2.375	Weight	Internal Diameter	Set at 5744	Perforations	To
Type Completion (Describe) single (Gas)		Type Fluid Production Saltwater		Pump Unit or Traveling Plunger? Yes / No Yes - pump unit	
Producing Thru (Annulus / Tubing) annulus		% Carbon Dioxide .166		% Nitrogen 2.311	Gas Gravity - G _g .654
Vertical Depth(H)		Pressure Taps flange		(Meter Run) (Prover) Size 3"	
Pressure Buildup: Shut in 6/09		20 14 at 10:45 am (AM) (PM)		Taken 6/12	
Well on Line: Started 6/12		20 14 at 10:45 am (AM) (PM)		Taken 6/13	
		20 14 at 10:45 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 _t) or (P _c)		Tubing Wellhead Pressure (P _w) or (P _t) or (P _c)		Duration (Hours)	Liquid Produced (Barrels)
						psig	psia	psig	psia		
Shut-In						108	122.4			72	
Flow	.500	86	1.0	67		88	102.4			24	0

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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
1.214	100.4	10.02	1.237	.9933	-----	15		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 14.981 ; (P_w)² = 10.485 ; 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: $P_c^2 - P_w^2$	Backpressure Curve Slope = "n" ----- or ----- Assigned Standard Slope	n x LOG []	Antilog	Open Flow Deliverability Equals R x Antilog (Mcfd)
14.774	4.496	3.286	.5167	.850	.4391	2.74	41
				assigned			

Open Flow **41** Mcfd @ 14.65 psia X .50 = Deliverability **20.5** 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 19th day of June, 20 14.

Witness (if any)

For Commission

[Signature]

For Company
GCM, INC

Checked by

KCC WICHITA

JUN 23 2014

RECEIVED