

KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test:

- Open Flow
 Deliverability

Test Date:
4/06 to 4/07/12

API No. 15
159-20732-00-00

Company Gas Chasers, Inc.		Lease Miller C		Well Number 1-AP2	
County Rice	Location C NE SE	Section 10	TWP 20S	RNG (E/W) 08W	Acres Attributed
Field LYONS		Reservoir HERRINGTON + KRIDER		Gas Gathering Connection AE/MKGG	
Completion Date 7/01/78		Plug Back Total Depth 1243'		Packer Set at completion data unavailable	
Casing Size 4 1/2"	Weight	Internal Diameter	Set at 1368'	Perforations [TOWANDA] To 1289-1316' + 1172'-1204'	To
Tubing Size 2 3/8"	Weight	Internal Diameter	Set at 1329'	Perforations	To
Type Completion (Describe) single		Type Fluid Production Saltwater		Pump Unit or Traveling Plunger? Yes / No no	
Producing Thru (Annulus / Tubing) tubing		% Carbon Dioxide .8278		% Nitrogen 22.2748	
Gas Gravity - G _g .867		Vertical Depth(H) Pressure Taps flange		(Meter Run) (Prover) Size 2"	
Pressure Buildup: Shut in 4/03 20 12 at 9:30 am (AM) (PM) Taken 4/06 20 12 at 9:30 am (AM) (PM)		Well on Line: Started 4/06 20 12 at 9:45 am (AM) (PM) Taken 4/07 20 12 at 9:45 am (AM) (PM)			

OBSERVED SURFACE DATA

Duration of Shut-in 72 Hours

Static / Dynamic Property	Orifice Size (inches)	Circle one: Meter Prover Pressure psig (Pm)	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								234	248.4	72	
Flow	.250	10	7	61				17	31.4	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 _t	Deviation Factor F _{pv}	Metered Flow R (Mcfd)	GOR (Cubic Feet/ Barrel)	Flowing Fluid Gravity G _m
.3067	24.4	13.06	1.074	.9990	-----	4		

(OPEN FLOW) (DELIVERABILITY) CALCULATIONS

(P_c)² = 61.702 ; (P_w)² = .985 ; P_d = _____ % (P_c - 14.4) + 14.4 = _____ ; (P_g)² = 0.207 ; (P_g)² = _____

(P _c) ² - (P _g) ² or (P _c) ² - (P _d) ²	(P _c) ² - (P _w) ²	Choose formula 1 or 2: 1. P _c ² - P _g 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)
61.495	60.717	1.013	.0056	.850	.0047	1.01	4
				assigned			

Open Flow 4 Mcfd @ 14.65 psia X .50 = Deliverability 2 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 17th day of April, 20 12.

RECEIVED

[Signature]
For Company
CCM, INC.

Witness (if any)

APR 18 2012

For Commission

Checked by

KCC WICHITA