

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 5/17/2011 API No. 15-025-21376-00-00

Company John O. Farmer		Lease Giles A		Well Number 1	
County Clark	Location W/2 NW SE	Section 10	TWP 31S	RNG(E/W) 22W	Acres Attributed 160
Field Mississippian		Gas Gathering Connection KGS			
Completion Date 9/27/2006	Plug Back Total Depth 6427		Packer Set at N/A		RECEIVED
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 6497	Perforations 5129	To 5136
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5110	Perforations	To KCC WICHITA
Type Completion (Describe) Single	Type Fluid Production N/A		Pump Unit or Traveling Plunger? No		
Producing Thru(Annulus/Tubing) tubing	% Carbon Dioxide 0.099	% Nitrogen 5.398	Gas Gravity- Gg 0.645		
Vertical Depth (ft) 5133	Pressure Taps flange		Meter Run Size 2.067		
Pressure Buildup: Shut in	5/5/2011 @ 0800	TAKEN	5/17/2011 @ 1400		
Well on Line: Started	5/17 2011 @ 1400	TAKEN	5/18/2011 @ 1400		

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H ₂ O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P _w) (P _c) (P _d)		Tubing WellHead Press. (P _w) (P _c) (P _d)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						419	433	419	433	294.0	
Flow	1.125	340.0	5.50	77		378	393	347	361	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcf/d	GOR	G _m
6.557	354.4	44.15	1.2451	0.9840	1.0273	364		0.645

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 188.3 (P_w)² = 154.6 P_d = 72.6 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 99.23

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_d)^2}$ or $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
188.06	33.66	5.587	0.7471	0.517	0.3863	2.434	886
89.04	33.66	2.645	0.4225	0.517	0.2184	1.654	602

OPEN FLOW 886 Mcfd @ 14.65 psia DELIVERABILITY 602 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 herein and that said report is true and correct. Executed this the 24 day of May, 2011

Witness (if any)

For Company

For Commission

Checked by