

KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 12/13/10

API No. 15-033-21,209 - 0000

Company Thoroughbred Associates		Lease Weldon			Well Number 1	
County Comanche	Location NE-NW	Section Sec. 22-32S-19W	TWP	RNG(E/W)	Acres Attributed	
Field	Reservoir Altamont		Gas Gathering Connection			
Completion Date 4/5/01	Plug Back Total Depth 5200		Packer Set at None			
Casing Size 5.500	Weight 15.500	Internal Diameter 4.900	Set at 5200	Perforations 4952	To 4964	
Tubing Size 2.000	Weight 4.700	Internal Diameter 1.995	Set at 4960	Perforations	To	
Type Completion (Describe) Tubing	Type Fluid Production		Pump Unit or Traveling Plunger?			
Producing Thru (Annulus/Tubing) Tubing	% Carbon Dioxide .061		% Nitrogen 1.096		Gas Gravity- Gg .603	
Vertical Depth (H) 4952	Pressure Taps Flange			Meter Run Size 3		
Pressure Buildup: Shut in	12/10/10	TAKEN		9:15 AM		
Well on Line: Started	12/13/10	TAKEN		9:30 AM		

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 _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						132	146			72.0	
Flow	.500	45.0	54.00	60	60	50	64				

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _D) 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
1.214	59.0	56.44	1.2878	1.0000	1.0047	88		.603

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 21.3 (P_w)² = 4.1 P_d = 68.5 % (P_c - 14.4) + 14.4 = (P_a)² = 0.207
(P_d)² = 10.00

$(P_c)^2 - (P_a)^2$ 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
21.12	17.22	1.226	.0887	.519	.0460	1.112	98
11.32	17.22	.657		.519		.804	71

OPEN FLOW 98 Mcfd @ 14.65 psia DELIVERABILITY 71 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 30th day of January, 20 11

Witness (if any)

For Commission

RECEIVED

JAN 03 2011

KCC WICHITA

For Company

Checked by