

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. 15-033-20,981 - 0000

Company Thoroughbred Associates		Lease LONG "X" TWIN			Well Number 1	
County COMANCHE	Location	Section SEC 9-T32S-R19W	TWP	RNG (E/W)	Acres Attributed 640	
Field	Reservoir MARMATON		Gas Gathering Connection			
Completion Date	Plug Back Total Depth 4980		Packer Set at			
Casing Size 4.500	Weight 10.500	Internal Diameter 3.950	Set at 5050	Perforations 4962	To 4965	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.950	Set at 4950	Perforations	To	
Type Completion (Describe) TUBING	Type Fluid Production		Pump Unit or Traveling Plunger?			
Producing Thru (Annulus/Tubing) TUBING	% Carbon Dioxide .015		% Nitrogen 1.706		Gas Gravity- Gg .608	
Vertical Depth (ft) 4962	Pressure Taps FLANGE		Meter Run Size 3			
Pressure Buildup: Shut in	12/10/10	TAKEN		10:00 AM		
Well on Line: Started	12/13/10	TAKEN		2:00 M		

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						84	98			76.0	
Flow	.500	45.0	2.00	60	60	50	64			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (E _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times R_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G _m
1.214	59.4	10.90	1.2825	1.0000	1.0047	17		.608

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 9.7 (P_w)² = 4.1 Pd = 50.8 % (P_c - 14.4) + 14.4 = (Pa)² = 0.207
(P_d)² = 2.50

$(P_c)^2 - (P_a)^2$ 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
9.48	5.54	1.712	.2335	.850	.1984	1.579	26
7.18	5.54	1.298	.1131	.850	.0962	1.248	21

OPEN FLOW 26 Mcfd @ 14.65 psia DELIVERABILITY 21 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 3rd day of January, 2011

Witness (if any)

For Commission

RECEIVED

JAN 3 2011

KCC WICHITA

For Company

Checked by