

**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. 15-033-21134 - 0000

Company Thoroughbred Associates		Lease Bird Ranch			Well Number 1	
County Comanche	Location C-NE-NE-SE	Section Sec. 5-T32S-R19W	TWP	RNG(E/W)	Acres Attributed	
Field	Reservoir Mississippi	Gas Gathering Connection				
Completion Date 1/22/00	Plug Back Total Depth 5320	Packer Set at None				
Casing Size 5.500	Weight 15.500	Internal Diameter 4.900	Set at 5364	Perforations 5214	To 5245	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.950	Set at 5200	Perforations	To	
Type Completion (Describe) Tuubing	Type Fluid Production	Pump Unit or Traveling Plunger?				
Producing Thru (Annulus/Tubing) Tubing	% Carbon Dioxide .091	% Nitrogen 1.254	Gas Gravity- Gg .604			
Vertical Depth (ft) 5214	Pressure Taps Flange	Meter Run Size 3				
Pressure Buildup: Shut in	12/10/10	TAKEN	3:55 PM			
Well on Line: Started	12/13/10	TAKEN	1:45 PM			

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						465	479			70.0	
Flow	.550	30.0	24.00	60	60	50	64	140	154	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (P _d) 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	44.4	32.64	1.2867	1.0000	1.0033	51		.604

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 229.8 (P_w)² = 4.1 P_d = 10.4 & (P_c - 14.4) + 14.4 = (P_a)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
229.62	225.68	1.017	.0075	.806	.0061	1.014	51
227.32	225.68	1.007	.0032	.806	.0025	1.006	51

OPEN FLOW 51 Mcfd @ 14.65 psia DELIVERABILITY 51 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 20th day of January, 20 11

Witness (if any) _____
For Commission _____

RECEIVED

JAN 03 2011

KCC WICHITA

For Company
Checked by