

**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. 15-033-21,205 - 0000

Company Thoroughbred Associates		Lease HERD		Well Number 3	
County COMANCHE	Location 120'E C SW SE	Section SEC 15-T32S-19W	TWP RNG(E/W)	Acres Attributed 160	
Field	Reservoir MISSISSIPI/ALTA	Gas Gathering Connection			
Completion Date	Plug Back Total Depth 5250	Packer Set at			
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 5280	Perforations 4968	To 5194
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.995	Set at 5200	Perforations	To
Type Completion (Describe) TUBING	Type Fluid Production	Pump Unit or Traveling Plunger?			
Producing Thru (Annulus/Tubing) TUBING	% Carbon Dioxide .121	% Nitrogen 1.063	Gas Gravity- Gg .598		
Vertical Depth (ft) 4968	Pressure Taps FLANGE	Meter Run Size 3			
Pressure Buildup: Shut in	12/10/10	TAKEN	11:00 AM		
Well on Line: Started	12/13/10	TAKEN	9:15 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 _c) (P _e)		Tubing WellHead Press. (P _w) (P _c) (P _e)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						183	197			70.3	
Flow	.750	45.0	15.00	60	60	50	64			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(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 Mcfd	GOR	G _m
2.740	59.4	29.85	1.2932	1.0000	1.0047	106		.598

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 39.0

(P_w)² = 4.1

P_d = 25.3

(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 $\frac{(P_c)^2 - (P_w)^2}{(P_c)^2 - (P_d)^2}$	LOG	Backpressure Curve Slope "n" --- or --- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
38.76	34.82	1.113	.0466	.599	.0279	1.066	113
36.47	34.82	1.047	.0201	.599	.0120	1.028	109

OPEN FLOW 113 Mcfd @ 14.65 psia DELIVERABILITY 109 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, 20 11

Witness (if any) _____
For Commission _____

[Signature]
For Company
Checked by _____

RECEIVED
JAN 03 2011

KCC WICHITA