

**KANSAS CORPORATION COMMISSION
ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST**

FORM G-2
(Rev. 8/98)

TYPE TEST:

- Open Flow
 Deliverability

TEST DATE: 8/14/11

API No. 15-033-21,205-00-00

Company Thoroughbred Associates		Lease HERD			Well Number 3	
County COMANCHE		Location 120'E C SW SE		Section TWP RRG(E/W) SEC 15-T32S-19W		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		8/11/11		TAKEN	11:00 AM	
Well on Line: Started		8/14/11		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 _t) (P _c)		Tubing WellHead Press. (P _w) (P _t) (P _c)		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						210	224			70.3	
Flow	.750	45.0	1.00	60	60	50	64			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times R_w}$	GRAVITY FACTOR F _g	FLOWING TEMP FACTOR F _t	DEVIATION FACTOR F _{pv}	RATE OF FLOW R Mcf/d	GOR	G _m
2.740	59.4	7.71	1.2932	1.0000	1.0047	27		.598

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 50.4 (P_w)² = 4.1 P_d = 22.3 % (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 $\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcf/d
50.15	46.21	1.085	.0355	.599	.0213	1.050	28
47.86	46.21	1.036	.0152	.599	.0091	1.021	28

OPEN FLOW 28 Mcfd @ 14.65 psia **DELIVERABILITY** 28 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 5th day of April, 2012

Witness (if any) _____

For Commission _____

RECEIVED

APR 05 2012

For Company _____

Checked by _____

KCC WICHITA