

**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. 15-033-21,215 - 0000

Company Thoroughbred Associates		Lease HERRINGTON-TWIN			Well Number 1	
County COMANCHE		Location S/2 NE/4 SE/4		Section TWP RNG(B/W) SEC. 15-R32S-T19W		Acres Attributed 160
Field COLDWATER SW		Reservoir MISSISSIPPI		Gas Gathering Connection COASTAL CORP.		
Completion Date 8/6/01		Plug Back Total Depth 5199		Packer Set at NONE		
Casing Size 4.500	Weight 10.500	Internal Diameter 3.927	Set at 5342	Perforations 5159	To 5168	
Tubing Size 2.375	Weight 4.700	Internal Diameter 1.950	Set at 5169	Perforations	To	
Type Completion (Describe) TUBING		Type Fluid Production		Pump Unit or Traveling Plunger?		
Producing Thru (Annulus/Tubing) TUBING		% Carbon Dioxide .090		% Nitrogen 1.067		Gas Gravity- Gg .600
Vertical Depth (ft) 5159		Pressure Taps FLANGE		Meter Run Size 3		
Pressure Buildup: Shut in 12/10/10		TAKEN 9:00 AM				
Well on Line: Started 12/13/10		TAKEN 7:20 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						205	219			70.5	
Flow	1.000	45.0	9.00	60	60	50	64			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (P _d) Mcf/d	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcf/d	GOR	G _m
4.912	59.4	23.12	1.2910	1.0000	1.0047	147		.600

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 48.1 (P_w)² = 4.1 P_d = 22.8 & (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
47.93	43.99	1.090	.0373	.542	.0202	1.048	154
45.64	43.99	1.037	.0160	.542	.0087	1.020	150

OPEN FLOW 154 Mcfd @ 14.65 psia DELIVERABILITY 150 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 the 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 03 2011

KCC WICHITA

For Company

Checked by