

**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. 15-033-21,215-00-00

Company Thoroughbred Associates		Lease HERRINGTON-TWIN			Well Number 1	
County COMANCHE		Location S/2 NE/4 SE/4		Section TWP R3G(E/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 8/11/11		TAKEN		9:00 AM		
Well on Line: Started 8/14/11		TAKEN		7:20 AM		

**OBSERVED SURFACE DATA**

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H <sub>2</sub> O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Tubing WellHead Press. (P <sub>w</sub> ) (P <sub>t</sub> ) (P <sub>c</sub> )		Duration (Hours)	Liquid Prod. Barrels
						psig	psia	psig	psia		
Shut-in						220	234			70.5	
Flow	1.000	45.0	1.00	60	60	50	64			24.0	

**FLOW STREAM ATTRIBUTES**

COEFFICIENT (F <sub>b</sub> ) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times R_w}$	GRAVITY FACTOR F <sub>g</sub>	FLOWING TEMP FACTOR F <sub>t</sub>	DEVIATION FACTOR F <sub>pv</sub>	RATE OF FLOW R Mcfd	GOR	G <sub>m</sub>
4.912	59.4	7.71	1.2910	1.0000	1.0047	49		.600

**(OPEN FLOW)(DELIVERABILITY) CALCULATIONS**

(P<sub>c</sub>)<sup>2</sup> = 54.9      (P<sub>w</sub>)<sup>2</sup> = 4.1      P<sub>d</sub> = 21.3      % (P<sub>c</sub> - 14.4) + 14.4 =      (P<sub>a</sub>)<sup>2</sup> = 0.207  
(P<sub>d</sub>)<sup>2</sup> = 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 Mcfd
54.74	50.80	1.078	.0324	.542	.0176	1.041	51
52.44	50.80	1.032	.0139	.542	.0075	1.017	49

OPEN FLOW      51      Mcfd @ 14.65 psia      DELIVERABILITY      49      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

Checked by

KCC WICHITA