

**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. 15-033-20949-00-00

Company Thoroughbred Associates		Lease Bird		Well Number 1	
County Comanche		Location C-SE-SW		Section TWP R5G(E/W) Sec. 16-T32S-R19W	
Field Mississippi		Gas Gathering Connection One Oak			
Completion Date 1/21/98		Plug Back Total Depth 5320		Packer Set at None	
Casing Size 5.500	Weight 15.500	Internal Diameter 4.950	Set at 5403	Perforations 5056	To 5119
Tubing Size 2.000	Weight 4.700	Internal Diameter 1.995	Set at 5128	Perforations 	To
Type Completion (Describe) Casing		Type Fluid Production Salt Water		Pump Unit or Traveling Plunger? Pumping	
Producing Thru (Annulus/Tubing) Casing		% Carbon Dioxide .180		% Nitrogen 1.090	
Vertical Depth (ft) 5056		Pressure Taps Flange		Meter Run Size 3	
Pressure Buildup: Shut in 8/11/11		TAKEN 3:45			
Well on Line: Started 8/14/11		TAKEN 3:50			

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						215	229			72.0	
Flow	1.250	30.0	1.00	60	60	85	99			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(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 Mcfd	GOR	G _m
7.771	44.4	6.66	1.2814	1.0000	1.0036	66		.609

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_c)² = 52.6

(P_w)² = 9.9

P_d = 21.8

(P_c - 14.4) + 14.4 =

(P_a)² = 0.207

(P_d)² = 2.50

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ OR $\frac{(P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" --- or --- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
52.42	42.74	1.226	.0886	.609	.0540	1.132	75
50.12	42.74	1.173	.0692	.609	.0422	1.102	73

OPEN FLOW 75

Mcfd @ 14.65 psia

DELIVERABILITY

73

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, 20 12

Witness (if any)

RECEIVED

For Company

For Commission

APR 05 2012

Checked by

KCC WICHITA