

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. 15-033-21,209-00-00

Company Thoroughbred Associates		Lease Weldon			Well Number 1	
County Comanche		Location NE-NW		Section TWP Rng (E/W) Sec. 22-32S-19W		Acres Attributed
Field Altamont		Reservoir Altamont				Gas Gathering Connection
Completion Date 4/5/01		Plug Back Total Depth 5200		Packer Set at None		
Casing Size 5.500	Weight 15.500	Internal Diameter 4.900	Set at 5200	Perforations 4952	To 4964	
Tubing Size 2.000	Weight 4.700	Internal Diameter 1.995	Set at 4960	Perforations	To	
Type Completion (Describe) Tubing		Type Fluid Production		Pump Unit or Traveling Plunger?		
Producing Thru (Annulus/Tubing) Tubing		† Carbon Dioxide .061		† Nitrogen 1.096		Gas Gravity- Gg .603
Vertical Depth (ft) 4952		Pressure Taps Flange			Meter Run Size 3	
Pressure Buildup: Shut in 8/11/11		TAKEN		9:15 AM		
Well on Line: Started 8/14/11		TAKEN		9:30 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						195	209			72.0	
Flow	.500	45.0	1.00	60	60	50	64				

FLOW STREAM ATTRIBUTES

CORFFICIENT (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
1.214	59.0	7.68	1.2878	1.0000	1.0047	12		.603

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(P_o)² = 43.7

(P_w)² = 4.1

P_d = 47.8

† (P_c - 14.4) + 14.4 =

(P_a)² = 0.207

(P_d)² = 10.00

$(P_c)^2 - (P_a)^2$ or $(P_o)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ or $\frac{(P_o)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG	Backpressure Curve Slope "n" ----- or ----- Assigned Standard Slope	n x LOG	Antilog	Open Flow Deliverability = R x Antilog Mcfd
43.49	39.59	1.099	.0408	.519	.0212	1.050	12
33.68	39.59	.851		.519		.920	11

OPEN FLOW 12

Mcfd @ 14.65 psia

DELIVERABILITY 11

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

APR 05 2012

Checked by

For Commission

KCC WICHITA