KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 9/14/12

API No. 15-033-20,969 - 00 - 03

Company	Lease	Well Number
Thoroughbred Associates	RIETZKE	1

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
COMANCHE	N/2-NE-NW	SEC 21	T32S	R19W	160

Field	Reservoir	Gas Gathering Connection
	MARMATON	Thoroughbred & Associates

Completion Date	Plug Back Total Depth	Packer Set at
9/23/98	5200	NONE

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.500	15.500	4.950	5403	4851	4860

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	47.000	1.995	5180		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
Single (Gas)	Saltwater	PUMP

Producing Thru (Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
CASING		4.880	.702

Vertical Depth (H)	Pressure Taps	Meter Run Size
4851	FLANGE	3

Pressure Buildup: Shut in	9/11/12	TAKEN	9:15 AM
Well on Line: Started	9/14/12	TAKEN	10:00 am

RECEIVED
OCT 31 2012
KCC WICHITA

OBSERVED SURFACE DATA

Static/ Dynamic Property	Orifice Size in.	Meter Pressure psig	Pressure Diff. In. H_2O	Flowing Temp. t.	WellHead Temp. t.	Casing WellHead Press. (P_w) (P_t) (P_c) psig	Casing WellHead Press. psia	Tubing WellHead Press. psig	Tubing WellHead Press. psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						245	259			72.8	
Flow	1.500	18.0	1.00	60	60	40	54			24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F_b) Mcfd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mcfd	GOR	G_m
11.410	32.4	5.69	1.1935	1.0000	1.0032	77		.702

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 67.3 $(Pw)^2$ = 3.0 Pd = 19.3 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ = 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
67.08	64.32	1.043	.0182	.750	.0137	1.032	80
64.79	64.32	1.007	.0031	.750	.0024	1.005	78

OPEN FLOW 80 Mcfd @ 14.65 psia DELIVERABILITY 78 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 29 day of October, 20 12

Witness (if any)

For Company

For Commission

Checked by