KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 9/13/2013 API No. 15-057-20751-00-00

Company	Lease	Well Number
Ritchie Exploration	Pinkney-Rohr	1

County	Location	Section	TWP	RNG (E/W)	Acres Attributed
Ford	1210' FNL 907'	6	28s	22W	

Field	Reservoir	Gas Gathering Connection
	Miss	Ford Gathering System, LLC

Completion Date	Plug Back Total Depth	Packer Set at
11/7/2011	5098	none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	10.500	4.052	5161	5022	5038

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.700	1.995	5024		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
perf-acid		no

Producing Thru (Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
tubing	0.012	9.588	0.659

Vertical Depth (H)	Pressure Taps	Meter Run Size
5030	flange	3.068

Pressure Buildup: Shut in	9/9/2013@ 1000	TAKEN	9/12/2013@1000
Well on Line: Started	9/12/2013@1000	TAKEN	9/13/2013@1000

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 psia	Tubing WellHead Press. (P_w) (P_t) (P_c) psig	Tubing psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						465	479	440	454	72.0	
Flow	0.500	31.9	53.60	58		35	49	35	49	24.0	

FLOW STREAM ATTRIBUTES

COEFFICIENT (F_b) Mofd	(METER) PRESSURE psia	EXTENSION $\sqrt{P_m \times H_w}$	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR Fpv	RATE OF FLOW R Mofd	GOR	G_m
1.214	46.3	49.82	1.2318	1.0019	1.0038	74		0.659

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(P_c)^2$ = 229.8 $(P_w)^2$ = 2.4 Pd = 6.7 psia (Pa - 14.4) + 14.4 = $(P_a)^2$ = 0.207 $(P_d)^2$ = 1.02

$(P_c)^2 - (P_a)^2$ 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 Mofd
229.62	227.38	1.010	0.0042	0.850	0.0036	1.008	75
228.81	227.38	1.006	0.0027	0.850	0.0023	1.005	75

OPEN FLOW 75 Mofd @ 14.65 psia DELIVERABILITY 75 Mofd @ 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 _____ day of _____, 20 _____

Witness (if any)

For Company

For Commission

Checked by