KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☐ Deliverability

TEST DATE: 11-4-14 API No. 15-057-20588-0000

Company	Lease	Well Number
Ritchie Exploration	Lamb Lance	#1

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Ford	W2-NW-SE	8-28s-22w			640

Field	Reservoir	Gas Gathering Connection
Lamb	Mississippian	Superior Pipeline

Completion Date	Plug Back Total Depth	Packer Set at
6-25-10	5272	

Received
KANSAS CORPORATION COMMISSION
DEC 0 1 2014
CONSERVATION DIVISION
WICHITA, KS

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
4.500	10.500	4.052	5302	5024	5029

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.700	1.995	5015		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
New Well		

Producing Thru(Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
Tubing	.103	9.155	.659

Vertical Depth (H)	Pressure Taps	Meter Run Size
5026	Flange	3.068

Pressure Buildup: Shut in	10-31-14 @12:30P.M	TAKEN	10-31-14 @12:30P.M
Well on Line: Started	11-3-14 @12:30 P.M	TAKEN	10-4-14 @12:30 P.M

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. (P_w) (P_t) (P_c) psig	Tubing WellHead Press. psia	Duration (Hours)	Liquid Prod. Barrels
Shut-in						652	666	651	665	72.0	
Flow	1.500	34.0	25.20	60	60	549	563	548	563	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	48.4	34.92	1.2318	1.0000	1.0039	492		.659

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 444.1 $(Pw)^2$ = 317.8 Pd = % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ =

$(P_c)^2 - (P_a)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2}{(P_c)^2 - (P_w)^2}$ 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
443.88	126.33	3.514	.5458	.803	.4382	2.743	1351

OPEN FLOW 1351 Mcfd @ 14.65 psia DELIVERABILITY 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 November, 20 14

Witness (if any)

For Commission

Ritchie Exploration
For Company

Checked by