KANSAS CORPORATION COMMISSION
ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2
(Rev.8/98)

TYPE TEST:
☒ Open Flow
☒ Deliverability

TEST DATE: 1/10/2017 API No. 145-21822-00-00

Company	Lease	Well Number
Shelby Resources	Frick Family Farms	1-18

County	Location	Section	TWP	RNG(E/W)	Acres Attributed
Pawnee	1003 FSL 2001	18	22	16w	320

Field	Reservoir	Gas Gathering Connection
	Simpson	IACX

Completion Date	Plug Back Total Depth	Packer Set at
10/26/2016	4137	none

Casing Size	Weight	Internal Diameter	Set at	Perforations	To
5.500	4.950	15.500	4184	4015	4025

Tubing Size	Weight	Internal Diameter	Set at	Perforations	To
2.375	4.700	1.995	4112		

Type Completion (Describe)	Type Fluid Production	Pump Unit or Traveling Plunger?
Tubing Conveyed	none	no

Producing Thru(Annulus/Tubing)	% Carbon Dioxide	% Nitrogen	Gas Gravity- Gg
tubing	0.249	12.665	0.662

Vertical Depth (H)	Pressure Taps	Meter Run Size
4020	flange	2.067

Pressure Buildup: Shut in	1/7/2017@0900	TAKEN	1/10/2017@0930
Well on Line: Started	1/10/2017@0930	TAKEN	1/11/2017@0930

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						1342	1356	1280	1294	72.5	
Flow	0.750	36.0	108.20	47		1170	1184	1130	1144	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
2.779	50.4	73.85	1.2291	1.0127	1.0042	256		0.662

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

$(Pc)^2$ = 1839.8 $(Pw)^2$ = 1402.8 Pd = 3.7 % (Pc - 14.4) + 14.4 = $(Pa)^2$ = 0.207 $(Pd)^2$ = 2.50

$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	$(P_c)^2 - (P_w)^2$	$\frac{(P_c)^2 - (P_a)^2 \text{ or } (P_c)^2 - (P_d)^2}{(P_c)^2 - (P_w)^2}$	LOG [ ]	Backpressure Curve Slope "n" ---- or ---- Assigned Standard Slope	n x LOG [ ]	Antilog	Open Flow Deliverability = R x Antilog Mcfd
1839.61	437.02	4.209	0.6242	1.000	0.6242	4.209	1079
1837.32	437.02	4.204	0.6237	1.000	0.6237	4.204	1078

OPEN FLOW 1079 Mcfd @ 14.65 psia DELIVERABILITY 1078 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 13 day of January, 20 17

Received
KANSAS CORPORATION COMMISSION
JAN 18 2017
CONSERVATION DIVISION
WICHITA, KS

Witness (if any)

For Commission

For Company

Checked by