KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

TYPE TEST:

Open Flow

🛛 Deliverability		TEST DATE: 4/29/2015				API No.	15-145-21768 - 000 0		
Company	-	-	Lease	•			Well Number		
Ritchie Explor	ation		Conce	pt		3AB			
County		Location	Secti	on	TWP	RNG (E/W)	Acres Attributed		
Pawnee		2242' FNL 598'	3	22s	18	ļ	640		
Field	_	Reservoir				Gas Gatheri	ing Connection		
wildcat		Cong/Miss				SemGas			
Completion Date	-	Plug Back Total Depth	Plug Back Total Depth			Packer Set at			
1/9/2015		4170				none			
Casing Size	Weight	Internal Diameter	Set a	t		Perforation	rs To		
4.500	10.500	4.052	442	24		406	9 4123		
Tubing Size	Weight	Internal Diameter	Set a	t		Perforation	ns To		
2.375	4.700	1.995	404	48					
Type Completion (D	escribe)	Type Fluid Production	Type Fluid Production		Pump Unit or Traveling Plunger?				
frac		oil/water				no	_		
Producing Thru (Ann	ulus/Tubing)	% Carbon Dioxide				% Nitrogen	Gas Gravity- Gg		
tubing		0.110				11.040	0.649		
Vertical Depth (H)		Pressure Taps					Meter Run Size		
4096		flange					3.068		
Pressure Buildup:	up: Shut in 4/25 2015 @ 1050				TAKEN	4/28 2015 @ 1000			
Well on Line:	Started	4/28 2015 @ 1000			TAKEN	4/29/	/2015@1430		

Static/ Dynamic			Pressure Diff.			Casing WellHead Press. (P_w) (P_t) (P_C)		Tubing WellHead Press. (Pw) (Pt) (Fc)		Duration	Liquid Prod.
Property	coperty in. ps:	psig In. H 20	t. t	t.	psig	psia	psig	psia	(Hours)	Barrels	
Shut-in		_				1008	1022	902	916	71.2	
Flow	1.250	94.7	82.00	69		941	955	323	337	28.5	23.0

FLOW STREAM ATTRIBUTES

COEFFICIENT (F _b) Mcfd	(METER) PRESSURE PSia	EXTENSION V P M X H W	GRAVITY FACTOR Fg	FLOWING TEMP FACTOR Ft	DEVIATION FACTOR FPV	RATE OF FLOW R Mcfd	GOR	G m
7.771	109.1	94.58	1.2413	0.9915	1.0079	911	47070	0.736

(OPEN FLOW)(DELIVERABILITY) CALCULATIONS

(Pc) ² = 1045	5.3 (Pw)	•	Pd =	IVERABILITY 9.2 %) CALCULAT		$(Pa)^2 = 0.207$ $(Pd)^2 = 8.76$
$(P_c)^2 - (P_a)^2$ or $(P_c)^2 - (P_d)^2$	45.12.45.12	$\begin{bmatrix} (P_c)^2 - (P_a)^2 \\ (P_c)^2 - (P_d)^2 \\ (P_c)^2 - (P_w)^2 \end{bmatrix}$	LOG	Backpressure Curve Slope"n" or Assigned Standard Slope	ΓΊ	Antilog	Open Flow Deliverability = R x Antilog Mcfd
1045.09	132.51	7.887	0.8969	0.701	0.6287	4.253	3877
1036.54	132.51	7.822	0.8933	0.701	0.6262	4.229	3855

OPEN FLOW	3877	Mcfd @ 14.65 psia	DELIVERABILIT	ry :	3855	Mcfd 0 14.65 psia
_	•	f the Company, states that he is dul	y authorized to make the	Apove report a	ınd that he	has knowledge of the facts
stated herein and th	at said report is true at	nd correct. Executed this the	eceived	13/		. 20 . 15
	400		ORATION COMMISSION			
Witne	ess (if any)	ΜΔΥ	0 6 2015	Vd	A	For Company
For C	ommission		0 0 2013	— / _ / _ / _ / _ / _ / _ / _ / _ / _ / 	-3	Checked by

CONSERVATION DIVISION WICHITA, KS