KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

TYPE TEST:

Open Flow

Witness (if any)

For Commission

15-033-21327-00-00

_ <u>⊠</u> o	elive	rabilit	ty		TES	T DATE:	8	8/1	4/11		-	ADT NOT				7		
Company									Lease				•		Well	Number		
Thoroughbred Associates									HERD						4			
County						ation		Section TWP RNG)		Acre	s Attribut	ed		
COMANCHE					С	c NW SE				SEC 15-T32S-R19W					160			
Field						ervoir		_				Gas Gatl	mering (onnect	ion			
2						ISSISSI			-									
Completion	on Dat	· e			Plu	Plug Back Total Depth						Packer S	Set at					
Cacing			Bod ob		7-4	5790									·			
Casing Size Weight 5.500 15.500			Internal Diameter 4.950				Set at			Perforat		To						
Tubing Size Weight			4.950 Internal Diameter				5900				976	517	78					
2.375 4.700			1.995				Set at			Perforat	ions	To						
Type Completion (Describe)					Turné	1.995 Type Fluid Production				4965								
TUBI		_ (546	,		*11	s statu et	oduccioi	u				Pump Uni	t or Tr	avelin	g Plu	nger?		
Producing Thru(Annulus/Tubing)						rbon Diox	<u> </u>			% Nitrogen								
TUBING						.121										g		
Vertical	Depth	(日)		<u>_</u>	Pres	Pressure Taps						1.063			Mata	r Run Size		
4976	3					FLANGE									rac ce	3		
Pressure	Build	up: Sh	ut in	8/	11/11					~	TAKEN	11	:15 AI	v				
Well on Line: Started 8/14/				14/11					TAKEN			15 AM						
							SEBV	/¢ =	SURFA	<u> </u>								
							CERV		SURFA	UE 1	DATA							
Static/	Orif	ice Meter			Pressure	Flowing WellHe		ead	d Casing WellHead Press.			. Tubing WellHead I		lead Pr	ress.		Liquid	
Dynamic Property	Property in.		I		Diff.	Тетр. Тетр			10 10 10		P _C)		(P _w) (P _t) (F _c)			Duration	Prod.	
Property			psig		In. H 20	t.	t.		psig		psia	psi	psig ps		ia (Hours)		Barrels	
								İ										
Shut-in							ļ		300		314	<u> </u>				69.0		
B)		000	45	_				-					1		į			
Flow	1.0	300	45.0	<u> </u>	1.00	60	60	l	50	<u></u> _	64	<u></u> ,				24.0	· 	
						FI	-0W S	STF	REAM AT	TRI	BUTES	3						
CORFFICI	ENT	(METER)		PA	TENSION	CDAVITE	GRAVITY FI		OWING TEMP DI		PULLATION		DAME OF STORY			· · · · · · · · · · · · · · · · · · ·		
(F _b)		PRESSURE		I		FACTOR		FACTOR		DEVIATION FACTOR		RATE OF FLOW		OW		1		
Mcfd		psia		V ₽	m × H _w	Fg		Pt		FACTOR Fpv		R Mcfd			GOR		G m	
					<u></u>						· -							
4.912 59.			4 7.71		1.1995		1.	.0000		1.0059		45				.695		
					(0)	DENIEL			IVED 4 D							 l		
. 2		_		2			JVV)(D	/EL	.IVERAB	LIII	r) CAL	CULAT	TIONS	3	(Pa) ² = 0.207		
(Pc) ² =	98.	в	(1	Pw) ² =		†	Pd =		15.9	•	(Pc - 1	4.4) + 1	4.4 -) ² = 2.5		
(P _c) ² -	(P _a) ²			- 15	(P _C) ² - (P	<u>.</u> 27		7	Backpres			Γ <u>1</u>				Open F.	low	
$(P_{c})^{2} - (P_{a})^{2}$ or $(P_{c})^{2} - (P_{d})^{2}$		(P _C) ² - (P _U) ²		- 11	(P)2 - (P)2				Curve Slo							Deliverability		
$(\mathbf{P}^{\mathbf{G}})_{\mathbf{c}} - (\mathbf{P}^{\mathbf{G}})_{\mathbf{c}} = \mathbf{c}$			~ " .		$\frac{\frac{\mathbf{c'}}{\mathbf{p_c}}^2 - \frac{\mathbf{d'}}{\mathbf{p_c}^2}}{\left(\mathbf{p_c}\right)^2 - \left(\mathbf{p_c}\right)^2} $ LOG				Assigned		n x LOG	Antil		ilog			•	
				<u> </u>	(Pc) - (P	<u>~</u>	<u> L</u>		Standard S	Tobe	ļ	<u>L</u>						
98.64		94.70			1.042	_ ا	.0177		950				4.0					
96.35		94.70		 -	1.042		.0177		.850		.0150		1.035		-	47		
		1 0-1.10					.0075		.850		.0064		1.015		l_	46		
OPEN FLOW			47		Mr	fd 6 14.69	5 pais			RI Tim	Rability		40					
The und	omico	nd =	ority a=	hah-f				-	duty Hithoriz				46		_	Mcfd 0 14.	65 paia	
			~y, on	JUNEI	OI US COR	ipany, stat	os that h	.	an <u>la kat</u> tpous	zed to a	make the s	bove rep	ort and ti	hat bod	ina kar	wlades of t	ha facta	

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Checked by