KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2

(Rev.8/98)

TYPE TEST:

⊠o, ⊠de		-low rabilit	v		Test	DATE:		9/14	4/12		j	API No.	15-0	33-21,20	9 - OO ·	-00
Company		· · · · · · · · · · · · · · · · · · ·							Lease						Number	
Thoro	ught	ored A	Associa	ates					Weldo	n				1		
County						Location				Section TWP				Acre	s Attribu	ted
Coma	nche	€			NE	E-NW			Sec	22-3	325-19\	V				
Field					Rese	rvoir			· · · · · · · · · · · · · · · · · · ·			Gas Gathe	ring Co	nnection	·- ·- · · ·	
					Alf	tamont					7	horoud	hbre	d & Ass	ociata	ECFN/
Completio	n Dat	e			Plug	Back To	al Dep	th				Packer St	t at		0.0	
4/5/01							520	o				None			UC	T 3 1 2 WICH
Casing Si	ze		Weight		Internal Diameter				Set a	t		Perforati	ions	То	14-	
5.500)	15.500		oo	4.				5200			4952		4964	KCC	WICH
Tubing Size Wei			Weight	:	Internal Diameter				Set at			Perforati	ions	То		TICH
2.000		4.700		0	1.998				4960							
Type Completion (Describe)					Туре	Type Fluid Production						Pump Unii	t or Tra	veling Plu	nger?	
Sind	yle i	(Gas	(2									No		wing		
Producing Thru (Annulus/Tubing)					% Carbon Dioxide					,			en a	Gas Gravity- Gg		
Tubing					.061							1.096		.603		
Vertical Depth (H)					Pres	Pressure Taps								Mete	r Run Sia	.e
4952	- !					-	inge							*****	3	
Pressure Buildup: Shut in 9/11/1:											TAKEN	9:1	5 AM			
-					14/12						TAKEN		O AM			
					- ,, ,						7.E.C.311		70 74141			
						Oi	SER	VEC	SURFA	CE	DATA					
			····		····	· • · · · · · · · · · · · · · · · · · ·	1		Casing E	11802	d Drose	Tubin	a BollBa	and Drose		
Static/ Dynamic	-				Pressure Diff.	Flowing Temp.	Well	Head	Casing WellHea (P _w)(P _t)(Tubing WellHe			Duratio	Liquid n Prod.
Property in			psig		In. H 20	t.	t	-	psig		psia	naid			(Hours)	
								<u> </u>	bard	+	hara	Pari	-	psia		
Shut-in							}		150		164				72.0	
Shuc-II							+		150	-	104	 			72.0	
Flow		500	45.0	, I	1.00	60	60	`	50		64				e.	
		,,,,	70.		1.00	- 00	- OC		30		04	L			<u> </u>	
						F	LOW	ST	REAM AT	TRI	BUTES	;				
· · · · · · · · · · · · · · · · · · ·	·															
(F _b)					EXTENSION								OF FLO	育		
_	Mcfd		PRESSURE psia		m x H _w	1	FACTOR Fg		FACTOR Ft		FACTOR FPV		R Mcfd		SOR	G m
PICIO	PICIG		Para				- Fy		PL		K P A		MCTG			
1.214		59	59.0		7.68		2878		.0000		1.0047		12			.603
	•					1.20		<u>.</u>			1.0047		12	<u> </u>	<u> </u>	.003
					(OF	PEN FL	OW)	DEI	_IVERAB	ILITY	/) CAL	CULAT	TONS		.2	
$(Pe)^2 = 26.9$ $(Pw)^2 =$						1	61.0 % (Pc -			4.4) + 14		$(Pa)^2 = 0.207$ $(Pd)^2 = 10.00$				
		T					Pd	7	1		1	F 7		(2)	4, - 1,	J.00
$(P_c)^2 - (P_a)^2$					$\left[\left(P_{c} \right)^{2} - \left(P_{a} \right)^{2} \right]$				Backpressure Curve Slope"n"						Open Flow Deliverability	
or (P _c) ² - (P _d) ²		$(P_c)^2 - (P_w)^2$		2 ,	$\left \left(\mathbf{P}_{\mathbf{C}}\right)^{2}-\left(\mathbf{P}_{\mathbf{d}}\right)^{2}\right $		LOG		or		n x Log				= R x Antilog	
(P _c) - (P _d)					(P) ² - (P) ²		'		Assigned Standard Slope		11 2 100		Antilog		Mcfd	
<u> </u>		 		<u></u>	(Fc) (F	w	<u> </u>					<u>L</u>				
26.70		22	22.80		1.171		.0686		.519		0252		1.005		13	
16.90		 			.741		.0000		.519		.0356		1.085		13	
			80		71				.018				.856		10	
опри тос			40				CE - '			nn						
OPEN FLOW			13			ofd 0 14.			•		RABILITY	•	10		Mcfd 0 1	4.65 psia
									duly authori				ort and	uat he has kn	owledge o	f the facts
tated herei	n and	that sai	id report	is true	and correc	t. Execute	d this th		29	day	of	Hobe,	//	/	, 20	12
												_	l a	n Mr	1	
	Wit	ness (if	any)									_		For	ompany	
	For	Commi	Raion		_									Check	ed by	