## KANSAS CORPORATION COMMISSION ONE POINT STABLIZED OPEN FLOW OR DELIVERABILITY TEST

FORM G-2 (Rev.8/98)

TYDE TEST

TYPE TEST												15	5-033	3-213	27-0	0-00			
Open Flow Deliverability TEST DATE: 12/13/10											_	API No.				- 2	$\mathcal{L}$	$\Omega$	
Company	enve	rabilit	У		TEST	DATE:	12/	Lease API				No. <u>15-033-21,827</u>							
1	bred A	Associa	ates	<b>.</b>		HERD		4											
County						Location				Section TWP			RNG(E/W) Acres Attributed					d	
COMANCHE						NW SE		SEC 15-T32S-I			₹19W <sup>′</sup> 160								
Field					Rese	rvoir			Gas C				ering	Connec	tion				
						SSISSI													
Completio	on Da	te			Pluç	Back Tota	-			1	Packer S	et at							
Casing S	1		- Rodeh			Di	579	<u> </u>	n-+ -		<del></del>		4					<del></del>	
5.500			Weight Int 15,500			ernal Diameter 4.950			Set at 5900			Perforations To 4976 517				78			
Tubing S:	···	Weight		Internal Diamet				Set a		1		forations To							
2.375			4.700		1.9						•		1045	10					
Туре Сощ	pleti	on (Des	cribe)		Туре	Fluid Pr	oductio	מכ			J	Pump Uni	t or T	raveli	ng Plu	nger?			
TUBII	TUBING																		
Producing	g Thr	u (Annul	us/Tubi:	ıg)	₹ Ca	t Carbon Dioxide				* 11			Nitrogen Gas Gravity				- Gg		
	TUBING					.121				1.0			63 .695						
Vertical	-	h (H)			Pres	sure Taps		_							Mete	r Run Si	ize		
4976		dum : Ch	nt in	11	2/10/10	FL	ANGE				Mile travelera	44	:15 A			3			
					2/10/10 2/13/10				Taken Taken				: 15 A 15 AN						
												<u> </u>		<u>''</u>					
OBSERVED SURFACE DATA																			
Static/	Ori	fice	Meter		Pressure	ressure Flowing We			Casing WellHead Pr			Tubin	Tubing WellHead Pre					Liquid	
Dynamic			Pressure		Diff.	Temp.	- 1		(P <sub>w</sub> ) (P <sub>t</sub> )		(P <sub>C</sub> )	(P <sub>w</sub> ) (P <sub>t</sub> ) (F <sub>c</sub> )			Durati		Prod.		
Property	opercy in.		psig		In. H 20	t.	t.		psig		psia	psi	psig ps		ia (Hour		"	Barrels	
03 d-																			
Shut-in	<u> </u>								315	315 32		<del></del>		69.		2_			
Flow	1.000		45.	ا ه	5.00	60	60 60		50		64		- 1			24.0			
							1					<u> </u>	1				<u> </u>		
						rı	LOVV	511	REAM AT	IKI	BUIES	i							
COMPFICIENT		(MR	(MRTER)		ITENSION	GRAVIT	GRAVITY		LOWING TEMP DE		VIATION	RAT	RATE OF FLOW						
(F <sub>b</sub> )		PRES	PRESSURE		P <sub>m</sub> x H <sub>w</sub>	PACTOR	PACTOR		FACTOR		FACTOR		R		GOR			3 _	
Mefd	Mefd p		ia V		m - w	Fg			Pt		Fpv	Mcfd						G m	
4 91	4.912 59		<u> </u>		17.23	1 100	.1995		0000		1 0050		100						
4.01		59.		<u> </u>	17.23	1.199	<u> </u>	1.	0000		1.0059		102					.695	
					(0)	PEN FLO	OW)(	DEL	<b>IVERAB</b>	ILIT	Y) CAL	CULAT	TION:	S	<b>/</b> 5.	.2 .			
(Pc) <sup>2</sup> =	10	8.5	C	Pw) 2	<b>4</b> .	1	Pd •	-	15.2 % (Pc - 1			14.4) + 14.4 =				$(Pa)^2 = 0.207$ $(Pd)^2 = 2.50$			
TTT TELEVI					(P <sub>C</sub> ) <sup>2</sup> - (P	(p <sub>a</sub> ) <sup>2</sup> - (P <sub>a</sub> ) <sup>2</sup>			Backpressure			г 1	٦		<u> </u>				
			22		or	a'			Curve Slope"							Open Flow Deliverability			
or (P <sub>c</sub> ) <sup>2</sup> - (P <sub>d</sub> ) <sup>2</sup>		(P <sub>C</sub> )	$(P_c)^2 - (P_w)^2$		$\left  \left  \frac{(P_c)^2 - (P_d)^2}{2} \right  \right $		LOG		Assigned		n x LOG	]	Antilog			= R x Antilog Mcfd			
<del></del>					_(P <sub>c</sub> ) <sup>2</sup> - (P	الــــــــــــــــــــــــــــــــــ	<u> </u>		Standard Slop										
108.30	10	04.36		4.020		0464		050			_	4.000		İ					
106.00		<del>-}</del>	104.36 104.36		1.038		.0161 .0068		.850 .850		.013		1.032		-	105			
100.0	1	4.00				,000		)0.		.008	-	1.013			103				
OPEN FLOW 105 Mcfd 8 14.65 psia									DELIVERABILITY				16	оз		Mcfd A	14.	65 psia	
The un	dorsig	pood auti	hority, on	beha	-				·			boys-mn			has kn			<del></del>	
The undersigned authority, on behaf of the Company, states that he is duly authorized to make the aboys-report and that he has knowledge of the facts stated berein and that said report is true and correct. Executed this the																			
												/	1/,	121	<i>[</i>				
	Wi	itness (if	any)		<del></del>				KFCE!/	RECEIVED -				Por Company					
For Commission										JAN 0 3 2011 -									
	For	r Comm	1551ON						C U NAC	2011	l		Checked by						