KANSAS CORPORATION COMMISSION ONE POINT STABILIZED OPEN FLOW OR DELIVERABILITY TEST

Type Test			0.112		J O.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(See Ins	tructio	ons on Re	verse Side	9)							
✓ Open Flow✓ Deliverability							Test Date: 4/12 to 4/13/12				API No. 15 053-20205-00-00							
Company Rupe Oil Company						Lease Helwick				k					Well Number			
County Location Ellsworth E/2 NE NW							Section 32			TWP F			")		Acı	res At	tributed	
Field Grubb					Reservoir Lee Compton			Ga			s Gathe	ering Conn	ection					
Completion Date 2/27/78						ck Total			Rupe Oil Packer Set at none									
Casing Size Weight 4.5				ht			Internal Diameter			Set at 2727			tions	To 2284				
Tubing Size Weigh 2.375				ht		Internal	nternal Diameter			Set at			tions	То				
Type Completion (Describe) single						Type Fluid Production				Pump Unit or Traveling No				g Plunger? Yes / No				
Producing Thru (Annulus / Tubing)						%	% Carbon Dioxide				% Nitrogen 24.100				Gas Gravity - G _g			
Tubing Vertical Depth(H)						.100	.100 Pressure Taps					+. 100	- · · ·	(Meter Run) (Prover) Size				
						flange									2"			
Pressure	Buildu	D: \$	Shut in 4/0	9	2	12 at _	12 at 10:15 am (AM) (PM				Taken 4/12 20			12 at 10:15 am (AM) (AM) (PM)	
Well on L		Started 4/1	2		10:15 am (AM)							20	12 at 10:	15 an	n (4	AM) (PM)		
OBSERVED SURFACE DATA Duration of Shut-in 72														Hours				
Static / Orifice			Circle one:		Pressure	Flowing	Well H		Casing			Tubing		Duration (Hours)		Liquid Produced (Barrels)		
Dynamic			Meter Prover Pressure		Differential in	Temperatur		Temperature		Wellhead Pressure (P _w) or (P _t) or (P _c)		Wellhead Pressure (P _w) or (P _t) or (P _c)						
	psig (Pi		psig (Pm)	<u> </u>	Inches H ₂ 0				psig psia 155.7 170.1			psig psia		70				
Shut-In Flow	500	500 54			E	66		 		140.7	-			72				
Flow .500 54							126.3 140.7			1			24					
	-		Circle one:				FLOW	SIRE		IBUTES							Flouing	
Plate Coeffiecient			Meter or		Press Extension	Gravity Factor		Te	mperature Fac		viation actor			ow GOR (Cubic Fee			Flowing Fluid	
(F _b) (F	(F _b) (F _p) Mcfd		Prover Pressure psia		✓ P _m x h		Fg		Factor F ₁₁		Fpv		(Mcfd)		rrel)	Gravity G _m		
1.219)	68	3.4	1	8.49	1.13	3	.99	943			2	25					
				4	0.700	(OPEN F	LOW) (DI	ELIVE	RABILITY) CALCUL	ATIO	ONS			(P _a) ² =	0.20)7	
$(P_c)^2 = 2$	28.934	<u>.</u>	(P _w) ² :		9.796	P _d	=	%	, (I	o _c - 14.4) +	14.4	4 =	:		(P _d) ² =			
(P _c) ² - (P _a) ²		(F	(P _c) ² - (P _w) ²		se formula 1 or 2:	LOG			Backpressure Curve Slope = "n"		•	n v 1 C	ر آ آ			Open Flow Deliverability		
or (P _c) ² - (P _d) ²			di		2. P _c ² - P _d ² ad by: P _c ² - P _w ²	1. or 2. and divid	formula 1. or 2. and divide by: p 2 p 2 w		Assigned Standard Slope		-	n x LOG		Antilog		Equals R x Antilog (Mcfd)		
28.72	28.727						.4973			.850		.4227		2.65		66		
									assigned									
Open Flow 66 Mcfd @ 14.6							5 psia X .50 = Deliver				bility 33				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 therein, and that said report is true and correct. Executed this the 17th 2y of April , 20 12.																	
							RE	CE	IVEL .		Ja	My	lllu					
			Witness	(if any)				8 2012		e	MI		Company				
			For Com	missio	n		-		- FAIT.				Che	cked by				

KCC WICHITA