NEW MEXICO OIL CONSERVATION COMMISSION

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COMPANY___

Form C-122

y k											Form C-122 Revised 12-1-55	
+	_							T FOR GAS				
Initial Annual X Special Date of Test 1-14-65												
Company Bogle & Kemper Oil Cc. Lease Sinclair Federal Well No. 2												
Unit <u>B</u> Sec. <u>5</u> Twp. <u>IS</u> Rge. <u>38 E</u> Purchaser <u>S.O.& G.</u>												
Casing 4 2 Wt. 9.5 I.D. 4.969 Set at 5005 Perf. 4932 To 4950												
Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at Perf 4939 To 4943												
Gas Pay: From <u>4939</u> To <u>4943</u> L <u>4939</u> xG <u>.810</u> <u>-</u> GL <u>4001</u> Bar.Press. <u>13.2</u>												
Producing Thru: CasingTubing X Type Well single Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer Reservoir Temp												
						OBSERV	ED DATA					
Test	ed Through	(1711)	***) (1	Birnelikken)	(Meter)				Type Tap	s fl	ange	
Flow Data Tubing Data Casing Data												
	(Prover)	(Cho	oke)	Press.	Diff.	Temp.		And the second se	Press.		Duration of Flow	
NO.	(Line) Size		ize	psig	h _w	°F.	psig	° _F .	psig	^{>} F.	Hr.	
SI 1.	4	1.50	YO	457.3 12		64	769 509				72 SI 24	
2.	1											
3. 4. 5.								<u></u>		+		
5.		[[<u></u>	L				
	Coeffici	ent	t	Pr	essure		CULATION	S Gravity	Compre	ss.	Rate of Flow	
No.						Fac	tor	Factor	Facto	or	Q-MCFPD @ 15.025 psia	
	(24-Hour) 7 13.99		√ h _w 76.69	· +	psia 1 70.5 .9962		't		F _{pv}		997.2	
2.												
1. 2. 3. 4. 5.												
5.			<u> </u>				<u>_</u>		<u></u>		······································	
					PR		CALCULATI					
	Liquid Hyd <mark>r</mark> o ity of Liqui				eg.	cf/bbl. deg.		Speci Speci	fic Gravi fic Gravi	ity Sepa ity Flor	arator Gas .810 wing Fluid	
⁷ c	· · · ·		(1-e ⁻⁵	,241		-	P	769	P ²	591.4	
									·····			
No.	P _w	P	2 f	Q	(F _c Q) ²	2 (1	$(c_c Q)^2$ L-e ^{-s})	P _w 2	$P_c^2 - P_w^2$	C	al. P_{W} P _w P_{C}	
	Pt (psia) 522.2	272.		.908	98.17			296.4	295	544	W I	
2.												
$\frac{1}{2}$. 3. 4. 5.												
	olute Porent			.982		MCFPD	L : n	.9876261	L		<u></u>	
COMPANY Sinclair Oil & Gas Co.												
AGE	NT and TITLE			cott,		lech.	/ Ha	unt				
WIT	NESSED					/	1/100					

used previous n slope A. P. calculated

REMARKS

INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

- Q = Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c : 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw⁻ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_f Meter pressure, psia.
- $h_{W}\text{=}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n _ Slope of back pressure curve.
- Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_+ .