HODER CEFICE DOD NEW MEXICO OIL CONSERVATION COMMISSION

	Les Leven	MULTI	-POINT BACK	PRESSUR	E TEST FOR	1960 () GAS WELLS	X7 1	Form C-122 M 8 Revised 45-1-55
Pool	Jalmat		ormation	Yates		County_	Lea	
Initial_		Annual		_Special	X	Date of	Test_4	-18 to 4-22.
Company_	TEXAC	0 Inc.	Lea	se C.C	. Fristoe	"B" We	11 No	1960
Unit 👤	Sec	31 Twp 24	Rge.	37	Purchaser	NCT-4 El Paso N	atural	Gas Co.
Casing_7	Wt. 2	0I.D6	.46 Set a	t 3505	Perf	2760	To 29	960
Tubing_2	-3/8 Wt.	4.7_I.D. 1	.995_Set a	t _3346	Perf		_To	
Gas Pay:	From 276	<u>To 2960</u>	L 3346	xG	.675	2258	Bar.Pre	ss. <u>13.2</u>
		sing						
Date of (Completion:_	11-26-48	Packer	None	Single-Bi Rese	radenhead-G. ervoir Temp.	G. or G	.0. Dual

OBSERVED DATA

Tested Through **AREANCE** (Meter)

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		Flow D	ata			Tubing	Data	Casing	Data	
No.	(Prover) (Line)	(Choke) (Orifice)	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow
	Size	Size	psig	h _w	°F.	psig	°F.	psig	^o F.	Hr.
SI						labele		<u>k k k</u>	1	72
1.	4	1.500	387	9.00	72	391		107		21
2.	4	1.500	347	24.01	76	356		384	+	21
3.		1.500	311	39.69	74	326		366	1	
4.	<u>k</u>	1.500	270	60.84	72	292		350	1	- 21
<u>5. </u>	*2	0.500	17	9.0	60		······		1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

-			F	LOW CALCULATIC	ONS			
	Coefficient		Pressure	Flow Temp.	Gravity	Compress.	Rate of Flow	
No.				Factor	Factor	Factor	Q-MCFPD	
	(24-Hour)	√ ^h w ^p f	psia	Ft	Fg	Fpv	@ 15.025 psia	
1.	13.99	60.01	400.2	.9887	.9427	1.040	813.7 837.6	
2.	13.99	93.00	360.2	.9850	9427	1.034	1249 1272 0	
3.	13.99	113.43	324.2	.9868	9427	1.033	1524 1517 0	
4.	13.99	131.26	283.2	9887	91.27	1.028	1750 1752 0	
5.	*1.535	16.49	30.2	1.000	.9427		23.86	

PRESSURE CALCULATIONS

							Fluid	cf/bbl.
Grav	rity	of	Liquid	Hydro				deg.
Fc_		.93	6		(1-	.e -s)	0.14	<u>k</u>

Specific Gravity Separator Gas___675 Specific Gravity Flowing Fluid_____ Pc___457.2___Pc___209.0____

Type Taps Flange

-				_						
No.	P _w Pt (psia)	P_t^2	F _c Q	(F _c Q) ²	$\frac{(F_cQ)^2}{(1-e^{-s})}$	P _w 2	$P_c^2 - P_w^2$	Cal. Pw	Pw Pc	
1.	420.2		Fr	ction		176.6	32.4		0101	
2.	397.2			sured	1	157.	51.2			
3.	379.2									
4. 5.	363.2					143.8	65.2			
5.									.7940	
COMI ADDI AGEI W1TI	Absolute Potential: 4,200 MCFPD; n875 COMPANY TEXACO Inc. ADDRESS P. O. Box 1270, Midland, Texas AGENT and TITLE F. W. Moore, District Gas Foreman WITNESSED Bobby Boas									
COM	PANY E1	Paso I	atural	Gas Co.					1	
*	REMARKS * Volume of Gas used for Lease Fuel									
aje:	** Total Volume well produced.									

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 \equiv 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
- P_W. 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.

hw Differential meter pressure, inches water.

Fg ² Gravity correction factor.	p	7	*	4
Ft Flowing temperature correction factor.	P.	٩	Ŧ	•
	r	D	ŕ	٣
F _{nv} Supercompressability factor.	0	~	*	*
P* ,	~	*	n	~
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_t .