NEW MEXICO OIL CONSERVATION COMMISSION

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS

Form C-122 Revised 12-1-55

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	ool Fulcher Kutz Fermation Picture Cliff												
Initial X Annual Special Date of Test 9-28-56							16						
Company Empire States Lease Empire States Well No. 1													
Uni	t 0 s	Sec	16 Tw	, 2	8N	Re	ge. 10W	Pur	${ t chaser}_{oldsymbol{-}{ t L}}$	L Paso N	tural	Gas	Co.
Cas	ing 4 1/2 V	vt. 9.	.5 I	.D	4"	Se	et at 204	-0P	erf	open	To hol	(.)	
Tub	ing 1.315 W	/t	.68 _I	.D.	XX 1	Se	et at 203	88 P	erf	open	To hol	е	
Gas Pay: From 2038 To 2070 L xG .660 -GL Bar.Press. 12													
Pro	ducing Thru:	Ca	sing	X	·	Tu	ubing	C:	Type We	ell Sine	gle Ga	g D	
Dat	e of Complet	ion:_8	3-11-	<u>5</u> 0	F	acke	r	51)	ngre-Brade Reserve	ennead-G. oir Temp	G. or	7.O. D	uaı
							OBSERV	ED DATA					
Tes	ted Through	(12X2X	××××××××××××××××××××××××××××××××××××××	Choke	e) (Ma	€⁄e¥r))			Type Tap	s		
			Flow D	ata				Tubin	g Data	Casing D		1	
No.	(Prover) (Line)	(Ch	oke) fice)	Pres	ss. D	iff.	Temp.	Press		Press.		,	Duration
	Size	1	ize	psi	ig	h _w	°F.	ps i g	°F.	psig	°F∙		of Flow Hr.
SI 1.		3	/4"	25				570 29		570 25			in 7 do
2. 3. 4. 5.		5/	<u> </u>	20				23		20			·
<u>3.</u> 4.		<u> </u>				·							
5.								Y					
			 				FLOW CAL						
No.	Coeffici		<i></i>		Press	ure	Flow Fac		Gravity Factor	Compre Facto	1	Rate (of Flow
-					psia F _t			Fg	Fpv		@ 15.025 psia		
1. 2. 3. 4.	14.1605	14.1605		37	7 1.000		·	.9535 1.00		0 490		,	
3.													
5.													
						PR	ESSURE C	ALCUTAT]	CONS				i
Gas I	Liquid Hydro	carbor	n Ratio	0			cf/bbl.		Speci	fic Gravi	ty Sepa	rator	Gas
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid P _C 570 P ² 324.9													
· C			··						- c	<u> </u>	c <u>_</u>		
	$P_{\mathbf{W}}$				T ,_	2.2		0.2		_2 _2			
No.	Pt (psia)	Pt	F	cQ	(F	₅ Q) ²	(F)	$\frac{c^{Q}}{c^{e}}$	P_{w}^{2}	$P_c^2 - P_w^2$		1. W	P _W P _C
1. 2.					-				1.37	323.5 3			
3.													
4. 5.			_		-						 	_	
Absolute Potential: 498 MCFPD; n													
COMPANY Well Production to. ADDRESS 1041 Zuni Drive, Farmington, New Mexico													
AGENT and TITLE N.A. Neely WITNESSED													
COMPANY													
							REM	ARKS			JUL 2	6 1957	,
										1,	DIL CON	I. COM	. !

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 ($P_{\rm W}$). 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.

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