	F	osub'	Ç,	122
?ev	F ise	1 12	-1·	- 55
7	137	1)	1	1

ONE						
MMESS -POTNT	BACK	PRESSURE	TEST	FOR	GAS	WELLS

Pool	1	Gas Pool	<u> </u>	ormation_	Yates	& Seven	Rivers	_County	Lea	10 11
Ini	tial	A	Innual		Spec	ial_X	*	_Date of ?	Test_4/1	1 thru 4/18/5
Com	pany The	s Ohio Oi	1 Company	<u>/</u>]	Lease\$	tate McD	onald A/c	: Well	L No	6
Unit	t <u>N</u>	Sec16	_Twp _ 22.	-S Rge	. <u>36-</u> E	Purcl	haser_ P	rmian Bas	in Pipeli	ne Company
Casi	ing 7" V	vt. 24#	I.D	5.336 Set	at_ 36	57 Per	rf. **		ľo	
	ing 2-7/8" V									
Gas	Gas Pay: From 3058 To 3530 L 3468 xG 0.660 _GL 2289 Bar.Press. 13.2									
Prod	ducing Thru	: Casin	·g	Tub	oing	X	Type We	11 Si	ngle	
Date	e of Complet	cion: 10	/21/54	Packer	2987-	Sing 2990	gle-Brade Reservo	enhead-G. (oir Temp	or G.O	. Dual
* :	Special tes Order No. Re ted Through	t as auti -1092-A <u>(Prover</u>	norized u	nder		ED DATA		Type Taps	s Pip	
	(Prover)	Flo (Choke	w Data Press	Diff.	Temp.	Tubing Press.	Data Temp.	Casing Da	ta Temp.	Duration
No.	(Line) Size	(Orific	e) psig	h _w	\circ_{F}	psig	°F.	psig	o _F .	Duration of Flow Hr.
SI						710.0	68	Pkr		72 hrs \$.1.
1. 2.	<u>tur</u>	1.750	563	23.46	68	608.e	68	Pkr	••	24 hrs
3.										
4. 5.		<u> </u>		+						
<u> </u>		· L · · · · · · · · · · · · · · · · · · 			T OW CAL	CUT ATTON		<u></u>		
No.	Coefficient (24-Hour) $\sqrt{h_W}$		h _w p _f	Factor		Temp. tor	Gravity Comp Factor Fac		ress. Rate of Flow Q-MCFPD @ 15.025 psia	
1.	21.69		16.27	576.2	0.992		0.9535	1.05		2525
1. 2. 3. 4.										
4.										
2.1										
ravi	iquid Hydro ty of Liqui 5.866	d Hydroc		ry Gas		ALCUIATIC	Speci Speci	fic Gravit fic Gravit 723.2	yFlowing	Fluid
No.	P _w Pt (psia)	Pt ²	F _c Q	$(F_cQ)^2$	(F.	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal.	P _w P _c
1. 2.	621.2	385.9	14.812	219.40	32.	0	417.9	105.1	645.5	89.4
3.										
3. 4. 5.				, -,,,,					 	
Absolute Potential: 10,633 MCFPD; n 0.895974 ***										
ADDR	ADDRESS Box 2107, Hobbs, New Mexico									
	T and TITLE	John	R. Barber	- Petro	leum Eng					
	HERVER	Vitness	ed by:	. D. Chi	es & M.	L. John	ston - Th	e Ohio Oi	Company	
OCMBERNO: Witnessed by: H. B. Chiles & M. L. Johnston - The Ohio Oll Company REMARKS *** 7" O.D. csg perfs as follows: 3058'-3143', 3158'-3221', 3240'-66', 3322'-44', 3362'-80' 3426'-66' 8 34741-35201										

Slope taken from annual Multi-point Back Pressure test of 2/1/57.

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 (Pw). 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.
- FgI Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I 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_{+} .