## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

					MULTI	-POINT B	ACK PRE	SSURE	TEST	FOR GAS	WELLS		Revised 12-1-55	
Poo	1		Bumont		F	ormation	Yates	- Sev	en R	lvers	_County_	Lea		
Ini	Initial_			Annu	al		Spe	Special		ξ	_Date of	Test <u>4-</u>	29/5-3-63	
Company Tidewater Oil Company Lease State "B" Well No. 2														
Unit P Sec. 16 Twp. 21 Rge. 36 Purchaser El Paso Natural Gas Co.												as Co.		
Cas	ing <b>7</b>	N	/t	<b>24</b> I	•D•	Se	tat_3	810	_Perf	·		To		
Tub	Tubing 2-7/8" Wt.				•D•	Se	Set at <b>3661</b>		Perf			To		
	Gas Pay: From3100									·				
Producing Thru: Casing X Tubing Type Well G.O. Dual														
Date of Completion: 10-17-52 Packer 36 97 Reservoir Temp.														
OBSERVED DATA														
Tested Through (Prover) (Choke) (Meter) Type Taps														
Flow Data Tubing Data Casing Data														
Mo			1884	ske)	Press	. Diff.	Temp.			Temp.	Press.	Temp.	Duration	
No.		line) Size	S	ice) ize	psig	h <sub>w</sub>	$o_{F}$	ps:	ig	°F.	psig	°F∙	of Flow Hr.	
SI 1.	4		1.25		362	4.00	80				870		72	
2.	4		1.25		629	5.78	82	+			777 739	<del> </del>	24	
3.	4	_	1,25		584	12.96	84	<del>                                     </del>			670	1	24	
4.	4		1,25		613	14.44	83				644		24	
No.	1 1 1 1 1			$\sqrt{h_{\mathbf{w}_{1}}}$		ressure psia	Flow Fac	Flow Temp. Factor Ft		ravity Factor Fg	<u> </u>		Rate of Flow Q-MCFPD @ 15.025 psia	
1.	9.643		47.97				.981	.9813		9513	1,0	13	454.7	
1. 2. 3.	9.643			60.82		.979.					1.059		578.7	
3.	9,648			87.98 95.09			.977			9513 9513	1.05		830.9	
4. 5.	5.								<u> </u>		2.00			
PRESSURE CALCULATIONS														
		l Hydro ' Liqui				Yana	cf/bbl deg						arator Gas <u>.663</u> wing Flui <b>None</b>	
Fc		0.	865	(	1-e <sup>-s</sup> )	0.132		• -		P <sub>c</sub> _	883.2	_P <sub>c</sub>	780.0	
					1									
No.	/Pw		Pt	F	$  k_i  $	(PgQ)2	/_ (	F <sub>cQ</sub> ) <sup>2</sup> 1-e-s)		P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	Ca	al. Pw	
		psia)	34.4	0.3	$1M_{-1}$	0,234	(:		ļ.,	24.4	155.6	ļ	Pw Pc	
1. 2.	790, 752,		65.8	0.5		0,230				565.8	214.2		8511	
3.	683.	.2	166.8	0.7	19	0,517	.0			66.9	313.1		7735	
4.	657	2	131.9	0.1	77	0,604		<u> </u>	1-4	132.0	348.0	<del></del>	7441	
5. 1850 MCPPD873														
	olute PANY	Potent			ter Oi	I Co.	MCFPD	; n		-				
	RESS_			Box 54	7, Heb	be, N. Ne	X.							
AGE	NT and	TITLE		C. L.	Wade,	Superint	endent	C.K.1	Unde	f				
	NESSED	)			Murray	ral Gas	<u> </u>		<del></del>				<del></del>	
	PANY				- HR. 54	449		MARKS					111	

## 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 I 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.
- 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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  $P_{+}$ .