SWP-112

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

	1-D										FORM C-IZZ	
	2-F		MUL	ri-	POINT BA	CK PRES	SURE TES	ST FOR GAS	WELLS		Revised 12-1-55	
Pool	Basin Dakota Formation Dakota							County San Juan				
Init	ial <u>x</u>	A	nnual_			Spec	ial		_Date of :	rest	8/8/62	
											12	
Unit	D s	ec <b>. 3</b> 6	Twp.	27N	Rge	. 11W	Purc	chaserE]	Paso Nat	ural G	as Company	
	Casing 4½" Wt. 11.60 I.D. 4.000 Set at 6794 Perf. 6550 To 6654  Tubing ½" Wt. 2.75 I.D. 1.610 Set at 6652 Perf. To 6652											
Gas	Pay: From_	<b>655</b> 0 T	o <u>665</u> 4	<u> </u>	L	6652 x	G <u>.67</u>		67	Bar.Pre	255. 12.0	
Prod	ucing Thru:	Casin	ıg		Tul	oing	(	Type We:	ll sing	le-Gas		
Producing Thru: Casing Tubing X Type Well Single-Gas  Single-Bradenhead-G. G. or G.O. Dual  Date of Completion: 7/29/62 Packer Reservoir Temp.												
	•						ED DATA					
Tested Through (Choke) (Meter)										7pe Taps		
			w Data					g Data	Casing D		D.,	
No.	(Prover) (Line)	(Choke	e) Pre	ss.	Diff.				Press.	•	Duration of Flow	
	Size	Size		ig	h <sub>w</sub>	°F.	p <b>sig</b> 1170		psig 1915	°F.	Hr.	
SI		3/4		56		84	156		827		3-Hr	
$\frac{1}{2}$ .		3/4		.50		0-4	1,50	0-4	021		3-81	
3.												
4.				_				<del></del>	·			
5.		L									,	
	Coefficient Pressure Flow Temp. G								Compre	88. I	Rate of Flow	
No.	Coefficient (24-Hour) $\sqrt{h_w}$						tor	Factor F <sub>g</sub>	Factor F <sub>pv</sub>		Q-MCFPD @ 15.025 psia	
1.	12.3650		M. T	168		.9777		.9463	1.01	4	1,949	
2.				<u> </u>								
3. 4. 5.												
5.				L								
					PR	essure c	ALCUI AT	IONS				
as I	iquid Hydro	carbon H	Ratio			cf/bbl.	,				arator Gas	
Fravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid												
`c			(1-e	2_			•	P <sub>w</sub>	839			
	P <sub>w</sub>								γ	<del></del>		
No.	'w Pt (psia)	$P_{\mathbf{t}}^{2}$	F <sub>c</sub> Q		$(F_cQ)^2$	(F	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$		Pw Pc	
1.								703.9	3009.4		435	
2.									2			
3. 4.			<del>                                     </del>	+					<del> </del>	(çoci	V===	
<del>3</del> .			<u> </u>	$\perp$			i		<del></del>	ALL A	1962	
Absolute Potential: 2,300 MCFPD; n75  COMPANY Southwest Production Company  AUG 1 6 1962  COM. COM.												
ADDRESS 207 Petr. Club Plaza, Farmington, New Mexico DIST. 3												
AGEN	NT and TITLE	G. L	. Hoffma							<u> </u>		
WITNESSED Tom Grant COMPANY El Paso Natural Gas Company												
COMPANY El Paso Natural Gas Company REMARKS												

Flowing tubing pressure fluctuate from 86#-227#, used average pressure of 156#. Well making extreme heads of oil.

## 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 600 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
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{DV}$  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  $P_{\mathbf{t}}$ .