1-WD

1-D 1-F

Form C-122

941-64

			1	MULTI-	POINT B	ACK PRES	SURE TEST	r for Gas	WELLS		Revised 12-1-55	
Pool Basin Dakota Formation Dakota County San Juan												
Ini	tialXAnnu		_Annua	alSpecial					_Date of Test11-27-61			
Company Southwest Production Company Lease Man Federal Well No. 1												
Unit J Sec. 5 Twp. 26 Rge. 11 Purchaser El Raso Natural Gas Co.												
Casing 42" Wt. 10.50 I.D. 4.040 Set at 6357 Perf. 6240-66 To 6308-24												
Tubing 12" Wt. 2.75 I.D. 1.610 Set at 6325 Perf. Open To end											end	
Gas Pay: From 6240 To 6324 L 6325 xG .67 -GL 4237.7 Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer Reservoir Temp.												
	- <b></b>			, <del>wa</del>			ED DATA					
To a	ted Through	/ Dunes	rm) (C)	halea)	(Vutuud				Tune Tan	6		
Tested Through (Prever) (Choke) (Mexer)  Flow Data  Tubing Data  Casing Data												
	(Prover)					. Temp.	Tubing Press.		Casing D	Temp.	Duration	
No.	(Prover) (Line)	(Oxxii	KRRX			0-				1		
	Size	Siz	ze	psig	h <sub>w</sub>	·F.	psig	F.	psig	F.	Hr.	
SI		2/1	3/4				1880		1880		7 day	
1. 2.		3/4		307		68	307	68	1613		3 hr.	
3.												
4.									·			
<u> </u>		L		L						L	L	
	FLOW CALCULATIONS  Coefficient   Pressure   Flow Temp.   Gravity   Compress.   Rate of Flow											
No.		Coefficient						Gravity Factor				
	$(24-Hour)$ $\sqrt{h_w}$		$\sqrt{h_{\mathbf{w}}p}$	p <sub>f</sub> psia		Factor F <sub>t</sub>		Fg	Fpv		@ 15.025 psia	
1.	12.3650	<del></del>	A My T		319	.9924		.9463	1,033		3.826	
2.					-	17724		17-100				
3.												
4. 5.						·						
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas												
	ity of Liqui		carbo	ns		deg.					ring Fluid	
Гс			(1.	-e <sup>-s</sup> )				$P_{c}$	892	_Pc3	579.6	
								Pw	625 P	N2 2	640.6	
No.	P <sub>w</sub> Pt (psia)	Pt <sup>2</sup>	Fc	3	$(F_cQ)^2$	(F (1	$(c_{c}^{Q})^{2}$	P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub> <sup>2</sup>	1	Pw Pc	
1. 2.								2640.6	939.0	·	.858	
2. 3.	<del></del>	<del></del>	+			_				-		
4.			+						<del></del>			
<del>5</del> •												
Absolute Potential: 10,437 MCFPD; n .75  COMPANY Southwest Production Company												
	RESS 20	Petr.	Club	Plaza,	Farmi	ngton,	N.M.			RLLL	ALD /	
AGENT AND TITLE GOORGE L. HOTTMAN. Production Engineer												
	PANY							•		DEC1		
REMARKS OIL CON. COM. DIST. 3												

## 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<sub>W</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ 2 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  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  $P_+$ .