## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Jalma	t	Fc	rmation	7 Rivers	s & Queer	us .	_County	Lea		
Initial Annual Special Date of Test 5/28/57											
Compa	any Sunra	y Mid-Co	ntinent Oi	1 Co.	Lease	D. A. Her	nry	Wel	1 No	2	
Unit SW/4 Sec. 26 Twp. 25S Rge. 37E Purchaser El Paso Natural Gas Compeny											
Casin	ng 7" _ W	it. 22#	I.D	Se	et at 32	13Pe	rf	**	То Оре	en Hole	
Tubing 2" Wt. 4.70 I.D. 1.995 Set at 3266 Perf To Open Hole											
Gas Pay: From To 3297 L xG -GL Bar. Press.											
Producing Thru: Casing Tubing X Type Well Single											
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5/5/57 Packer None Reservoir Temp.											
						ED DATA					
Tested Through (Trover) (Choke) (Meter) Type Taps Flange											
								<del></del>		r	
	(Drawa m)		w Data Press.	Diee	Wo		Data	Casing D		Duration	
No.	(Line)	(Orific	ادم	]			1			of Flow	
SI	Size	Size	psig	h <sub>w</sub>	Tub.Line	psig <b>605</b>	°F.	psig 61.0	°F∙	Hr.	
1. 4	+ x 1.500	13/64	24	27	88			585	<del> </del>	2.5	
2. 1	+ x 2.750	14/64	29	3.5				580		2	
	+ x 2.750			22	100		1	550		3	
4.	× 2.750	35/64		42	96			51.5		3	
5. 14	x 2.750	35/64	28	41.5			<u> </u>	472		18	
					FLOW CAL	CULATION	S				
	Coefficient		Pr	Pressure							
No.	$(24-Hour)$ $\sqrt{h_W}$					tor	Factor Facto		r Q-MCFPD		
			h <sub>w</sub> p <sub>f</sub>	psia	$\mathbf{F_t}$		$\mathbf{F}_{\mathbf{g}}$	Fpv	@ 15.025 psia		
1.		13.99 31.68		37.2 .9741			.9161 1.				
2.		53.05 12.16		42.2 .9732			.9161	1.0		573.7	
3.	53.05			40.2 .9636			.9161	1.0		1390.85	
4.	53.05			41.2	.9671		.9161	1.0		1955.2	
1. 2. 3. 4.	53.05		1.35	41.2	•9671		.9161	1.0		1945.8	
PRESSURE CALCULATIONS  Sas Liquid Hydrocarbon Ratio 47.673 cf/bbl. Specific Gravity Separator Gas .715  Fravity of Liquid Hydrocarbons 29 deg. Specific Gravity Flowing Fluid Pc 623.2 p2 388.4											
	P <sub>w</sub>	P Z	F <sub>c</sub> Q	(F <sub>c</sub> Q) <sup>2</sup>	(F	c <sup>Q)<sup>2</sup></sup> -e <sup>-s</sup> )	P <sub>w</sub> 2	P <sub>c</sub> <sup>2</sup> -P <sub>w</sub> <sup>2</sup>		1. Pw Pc	
1. 2.	598.2	257.0					357.8	50.6			
<del>&lt;-</del> +	593.2	351.9	<del> </del>				351.9	36.5			
2.	563.2	317.2	<del> </del>				317.2	71.2	<del> </del>		
3. 4. 5.	528.2 485.2	279.0 235.4	<del> </del>	<del></del>			279.0 235.4	153.0	<del></del>		
Absolute Potential: 4850 MCFPD; n 1.0  COMPANY Sunray Mid-Continent Oil Company  ADDRESS Box 1168, Snyder, Texas  AGENT and TITLE D. G. Bower, Gas Tester  WITNESSED											
	ANY El F	aso Natu	ral Gas Co	mpany							

REMARKS

ELVIS A. UTZ GAS ENGINEES

## 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
- 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 méter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- $F_{DV}^{-}$  Supercompressability factor.
- n \_ \_ 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  $P_{t}$ .