NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELLS
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Revised 12:-1-55

Pao]	l	Basin-	Dakot	a	F			Dakota			San Ji	l an		
			X Annual											
		_												
Company Austral Cil Co. Lease Charles et al Well No. 2 Unit D Sec. 12 Twp. 27N Rge. 9W Purchaser														
Casing 42" Wt. 10.5# I.D. Set at 6735 Perf. 6422 To 6650														
Tubing 1 1/4" Wt. 2.1.# I.D. Set at Perf. Open End To														
Gas Pay: From To L xG .65 estGL Bar.Press.														
Producing Thru: Casing Tubing X Type Well Single - Cas Single-Bradenhead-G. G. or G.O. Dual														
Date of Completion: Packer Reservoir Temp.														
								ED DATA						
Tested Through (Prover) (Choke) (Heter) Type Taps														
				Flow Da		1100017	·	I m. v. 2 = =	Data -					
	(Pı	rover)	(Che	oke)	Press.	Diff.	Temp.	Tubing Press.	Temp.	Casing D		Duration		
No.	(1	Line) Size	(Ori :	fice)	psig	1	o _F .	p sig		psig		of Flow		
SI			ļ	126	hark	W	F•	2102		2106	F.	Hr.		
1.								2102		2100				
2 . 3.			3/4"		200		61			3.500				
4.			7 3/4"		270		<u>9T</u>		<u> </u>	1503	<u> </u>	3 Hrs.		
5.														
							FLOW CAL	CULATION	ıs					
	Cc	effici	ent		Pr	essure	Flow	Temp.	Gravity	Gravity Compress. Rate of Flow				
No.	(2h-Hour) - h		7/h.r			Factor		Factor	Facto	r	Q-MCFPD			
7.		$(24-Hour)$ $\sqrt{h_{Wl}}$		of pola		, t			pv		o 1)tocy para			
1. 2.									• • • • • • • • • • • • • • • • • • •					
3. 4.	12.365			282		9990		•9608	1.0290		3444			
5.														
PRESSURE CALCULATIONS														
Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas														
Gravity of Liquid Hydrocarbons					deg. Sp			ecific Gravity Flowing Fluid						
'c				(]	l-e ⁻⁸)			-	Pc	2118	Pc_4.	485.924		
	D													
No.	$P_{\mathbf{W}}$		P	2 F,	Q	$(F_cQ)^2$	(F	c^{Q}	P _w 2	$P_c^2 - P_w^2$	Ca	1. P.		
	Pt.	psia)		`			(1	_e−s)		- C - W	F	$\frac{P_W}{P_C}$		
1.											Ţ			
3.	15	1 5							2 ,29 5,225	2.190.69	99	- 2.0477		
1. 2. 3. 4.											-/-			
											 / R			
Absolute Potential: 5892 MCFPD; n = .75 1.7108 COMPANY Austral Oil Co.														
ADDRESS Box 234, Farmington, N. M.														
AGENT and TITLE Original signed by T. A. Dugan Thomas A. Dugan, Consulting Eng. CON. COM./WITNESSED DIST. 3														
COMP											_/	5101.0		
		REMARKS												

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 \subseteq 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 Tlowing temperature correction factor.
- Fpv 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 $P_{\mathbf{t}}$.