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MAY 1 6 1966 MEXICO OTL CONSERVATION COMMISSION

D. C. C.

HOHRS OFFICE COD

ARTEBIA, MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122

Revised 12-1-55

Pool	Wildcat		F	(II) ormation	OEO S	All 10	- 31	_County_	Rddy		
Initial X Annual				Special				_Date of	Test_1	1-26-	57
Compa	any Il Pas	o Natural	Gas Com	oany	Lease_L	eonard S	tate	Wel	.1 No	1	
	B 5				_						
Casing 7 Wt. 32 I.D. Set at 11,060 Perf. To Tubing 2 7/8 Wt. 6.5 I.D. Set at 10,773 Perf. To											
Gas Pay: From 10680 To 16760 L xG _GL Bar.Press. 13.2										•	
Producing Thru: Casing Tubing I Type Well Single Single-Bradenhead-G. G. or G.O. Dual Para of Completion: 33 27 57 Parker News											
Date of Completion: 11-27-57 Packer Kone Reservoir Temp.											
						TED DATA			193		
Tested Through (Prever) (Cheke) (Meter) Type Taps											
	(D		Data	Disc			Data	Casing D			Duration
No.	(Line)	(Onifica	. A . I			1		Press.	1	i	Duration of Flow
	Size	Size	psig	h _w	o _F .	psig	°F.	psig	°F∙		Hr.
SI								3217	 		72
1. 2.		3.250		4.0	70	3081 2950		316k 3060	 `	 -	11/2
3.	6	3.250	<u>590</u> 555	9.0 12.7k	<u>83</u> 76	2905		3032	 	 	1 3/4
4.	6	3.250		16.0	82	2780		2947			2 1/4
5.											
					77.017.017	OUT A STON	0				
-	Coeffici	ent	Pros		FLOW CALC			Compress.		Rate of Flow	
No.			` `	obbar c			tor Factor				
	(24-Hou	r) ¬/	h _w p _f	psia		't	Fg	F _{pv}		@ 15.025 psia	
1.	68.36		3.08		.9905		.9682	1.05	5	3.325	
2.	68.36		.67		.9786		9682	1.05		5,029	
3。	68.36		08		.9850		9682	1.05		5,841	
5.			2.63		.9795		9682	1.05	6	7,625	
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio 28.3 cf/bbl. Specific Gravity Separator Gas. Gravity of Liquid Hydrocarbons 56.2 667 deg. Specific Gravity Flowing Fluid Pc 3284.2 Pc 10.786.0											
No.	P _t (psia)	Pt Pt	F _c Q	$(F_cQ)^2$	(F (1	(cQ) ² -e ^{-s})	P _w 2	P _c ² -P _w ²	Ca P	w	P.w Pc
1. 2.	3094.2	9574.1					9.04.6	101.4	3073		.97
3.	2963.2	8780.6 8515.9					9.273.2		30.5		.93
4.	2791.2	7802.0						2023.2	2960		.90
5.											
Absolute Potential: 22,500 MCFPD; n .683 COMPANY RL PASO NATURAL GAS COMPANY											
AGENT and TITLE Jal New Mexico P.J. Wright Petroleum Engineer											
WITNESSED H H Kerby and J. O. Whitling											
COMPANY El Pago Natural Gas Company											
					REM	ARKS					

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. 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.
- $h_{\mbox{\scriptsize W}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.