MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	l <u>Undesig</u>	nated	F	ormation	Piet	tured Cli	ffs	_County_1	do Arr	iba		
Initial Annual Special Date of Test 1/6/58												
Company Magnolia Petroleum Company Lease Hill-Abraham Well No. 1												
Unit M Sec. 24 Twp 24M Rge. 2W Purchaser Pacific Northwest												
Casing 7" Wt 17# I.D. 6.538" Set at 3263' Perf. Unknown To(May be open hole)												
Tubing 2 3/8" Wt. 4.7# I.D. 1.995" Set at 3258' Perf To -												
Gas Pay: From 3255 To - L - xcEst. 0.680-GL - Bar. Press. 12 psi												
Producing Thru: Casing - Tubing X Type Well single - G Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp												
Date	Date of Completion: SI - 12/21/51 Packer Reservoir Temp.											
OBSERVED DATA												
Test	ed Through	(Propose	(Choke)	(Martine)				Туре Тар	5			
	(w Data) Press	Diff	Tomp	Tubing	Data Temp.	Casing Da	ata Terro	1	Duration	
No.	(Line)	(DIETES	5)	1 {	_				i		of Flow	
SI	Size	Size	psig	n _w	·F·	951g	-	872	-	Hr.		
1.	24	0.750		-	56	64	56		•	3 h	rs.	
1. 2. 3.										ļ		
3.				+						 		
4. 5.		 		† <u>†</u>								
		_		I	FLOW CAL	CULATION	5					
	Coefficient (24-Hour) √		P	Pressure		Temp.	Gravity	1 1		Rate of Flow Q-MCFPD @ 15.025 psia		
No.			h _w p _f	psia	Factor F _t		Factor Fg					
╗	12.365		- WPI	76			0.9393	- pv		586		
1. 2. 3.	220,50,5											
3.												
4. 5.												
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Fc												
No.	P _w	$P_{\mathbf{t}}^2$	F _c Q	$(F_cQ)^2$	(F,	cQ) ²	P _w 2	P _c -P _w ²	1	al.	P _w P _c	
<u> ;</u> , †	168	-	-	•		-	28,2	71.9.7	-			
2. 3.			 		- 				 	 ;		
4.									1			
5.									<u></u>	L		
Absolute Potential: 916 MCFPD; n 0.85 COMPANY Magnolia Petroleum Company ADDRESS P. O. Box 2406, Hobbs, New Mexico AGENT and TITLE William A Townsys Gr. Gas Engineer												
MILL	NESSED PANY	-									•	
55111					REM	ARKS			0	OF CC		

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 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.
- $F_g = Gravity$ 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 $P_{\mathbf{t}}$.

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