MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revised	12	2-1-55	

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Ini	itialX		Annu	al		Spec	ial		Date of	Test	6/10	/59
Con	npany Magno	lia Pe	etrole	m Co.		Lease_E	mma McDa	niel	We]	.l No	1_	
Uni	Unit P Sec. 22 Twp. 24N Rge. 1W Purchaser Not connected											
Cas	Casing 42" Wt. 9.5# I.D. 4.090" Set at 2990' Perf. 2896' To 2913'											
Tubing 12" Wt. 2.9# I.D. 1.610" Set at 2914' Perf To												
Gas Pay: From 2896' To 2913' L 2914' xG 0.680 est-GL Bar.Press. 12 psia												
Producing Thru: Casing X Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Dat	Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5/24/59 Packer No Reservoir Temp.											
						OBSERV	ED DATA					
Tes	ted Through	(Parsen	mer) ((Choke)	(Markenerses)				Type Tan	· S	_	
	Tested Through (Prener) (Choke) (Market) Flow Data Tubing Data Casing Data											
	(Preser)	(Cho	TOW DE	Press.	Diff.	Temp.		Temp.	Casing D		1	Duration
No.	(Line) Size	(Ori	fice)	psig		o _F .		°F.]	1	of Flow Hr.
SI	<u></u>	<u> </u>			W		774 73		776			
1.	2 ^{ft}	0.75	50	68	****	59	73	59	68	59	L^-	3 Hrs.
2. 3.											ļ	····
<u> </u>		 						 		 	-	
<u>4.</u> 5.								 			 	
	·	-						<u> </u>				
	0661-1						CULATION				75 1	
No.		Coefficient $\sqrt{h_w p_f}$ Pressure Flow Temp. Factor psia Ft		Factor	ss.	s. Rate of Flow						
110	(24-Hou			no nsia		rac F.	COL	F_	F		@ 15.025 psia	
 			/Wr						Fg Fpv			
1. 2.	10.365		*****		హ	1.0010		0 . 93 9 3	1,00	·		930
<u>3</u> .												
4.												
5.												
					PRI		ALCU ATI					
	Liquid Hydro ity of Liqui					cf/bbl.			fic Gravi			
	-	и пуиг		_e -s)		deg.		P _c	fic Gravi [.] 78 8	p2	621	riuiu
C								^ C——		c		
	· · · · · · · · · · · · · · · · · · ·									-		
No.	$P_{\mathbf{w}}$	Pt.			(E 012	/=	012	מ מ	$P_c^2 - P_w^2$,	n
NO.	Pt (psia)	Pt	Fc	.	$(F_cQ)^2$		$\left(\frac{Q}{e^{-s}}\right)^2$	P _w 2	P _C -P _w	Ca	W_	P <u>w</u> P _C
1.	35	-				- (1		7.225	614	+	<u>W</u>	
2.												
3.												
1. 2. 3. 4.										 	$-\!$	
Absolute Potential: 938 MCFPD; n 0.85 COMPANY Magnolia Petroleum Company												
ADDRESS P. O. Box 2406, Hobbs, New Mexico												
AGEN	NT and TITLE							Engineer			·	
	VESSED	7				0						
COMP	PANY					D. 200 - 1	DVC			1 2 17 1		
						REM/	KKKS			. ***	5-3	,

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 Tactual rate of flow at end of flow period at W. H. working pressure (P_w) . MCF/da. @ 15.025 psia and 60° F.
- PcI 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 meter pressure, inches water.
- Fg 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_{+} .