Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	ol <u>Undesigns</u>	ted Bel	ow P.C.	F	ormation	Pictu	red Cli	.f f s	County	Rio A	rriba	
Ini	itial X		Annual		-	Spec	ial		Date of	Test_8	-19-58	
Con	npany Magnol	1a Petr	oleum C	ompa	ny	Lease	Wasso	n Federal	Wel	1 No	1	
Uni	it A	Sec27	Twp.		2lıN_Rg	e <u>1</u>	Pur	rchaser			· · · · · · · · · · · · · · · · · · ·	
Cas	sing 5 1/2" V	Vt11_	<u>"_</u> I.D.	5	_012 # Se	t at	950' F	Perf. 28	771	To2	89), 1	
Tub	oing 2 3/8 V	/t <u> 7</u> ;	<u> </u>	1.9	95 Se	t at <u>28</u> .	731 F	Perf		То	_	
Gas Pay: From 2877 To 2894 L 2873 xG 0.680 CL - Bar. Press. 12 paia												
Producing Thru: Casing Tubing Type Well _single gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 8-1-58 Packer Reservoir Temp												
Dat	e of Complet	ion:	8-1- 58		Packer	r <u>no</u> ı	3 e	Reserve	oir Temp.	<u> </u>	• Dual	
						OBSERV	ED DATA					
Tes	ted Through	688608	(Cho	ke)	(Motoex)				Туре Тар	s		
	(Prover)		ow Data		Diff	Temp.		g Data	Casing D		Duration	
No.		(Orifi Siz	ce)	sig	!	o _F .		°F.		-	of Flow	
SI		512		STR	h _w	Г•	691		691	F •	Hr.	
1. 2.	2#	0.750		77],	•	620	174		189		3 hrs.	
3. 4.												
5.												
					F	LOW CAL	CULATIO	NS				
No.	Coefficient				essure	Flow '	Temp.	Gravity Factor			Rate of Flow Q-MCFPD	
	(24-Hou	r) 7	h _w p _f	1	psia	F ₁	l l	F _g	Fpv		@ 15.025 psia	
1. 2. 3. 4.	12.365				26	0.998	1	0.9393	1,01	3	11.80	
3. 4.				-								
5.]				1								
					PRE	ESSURE CA	ALCUIAT:	IONS				
	Liquid Hydro					•		Speci	fic Gravit	ty Sepa	rator Gas	
	ity of Liquio	-	arbons (1-e	-s)_	-	deg.		Speci Pc	ric Gravit 703	cy Flow: _Pc	ing Fluid <u>0.680es</u>	
No.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^{2}$	F _C Q		$(F_cQ)^2$	(F,	Q) ²	P _w ,2	$P_c^2 - P_w^2$	Cal	l. Pur	
1	201		-	_		(1-	Q) ² -e ^{-s})			P,		
1. 2. 3. 4.		_						10° p	453.8			
4.				士				· · · · · · · · · · · · · · · · · · ·				
	Nuta Parant		ļ <u>.</u>	 _		MCERRA				<u> </u>		
Absolute Potential: 1592 MCFPD; n 0.85 COMPANY MAGNOLIA PETROLEUM COMPANY ADDRESS P. O. BOX 2106, HORES NEW MEXTCO												
AGEN	IT and TITLE	2011	16 HOR		NEW MEXT	CO I	Gas I	inci neer				
A T T I	IESSED PANY	<u> </u>			0			See .				
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								Mila				
								£ -5	0 4 1	· - 1		

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
- PwT 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.
- $h_{\mathbf{W}}^{\perp}$ 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_{+} .

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