NEW MEXICO OIL CONSERVATION COMMISSION OCCUPANTION OCC

Initial - Annual X Special - Date of Test Peb. 27, 1957

Pool Eumont

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 3 CE Revised 12-1-55

Formation Queen County Lea

Comp	any N. B.	Hunt			Lease	Mary E.	Mants	We]	Ll No	2	
Unit	<u>L</u> 5	Sec 21	Twp	21-5	Rge 37-	E Pur	chaser_P	hillips Po	trolew	n Co.	
Casi	ng <u>5.5</u> V	vt. <u>15.</u>	5_I.D.	4.950	Set at 32	13 Po	erf.Open	Hole	то 37	15	
Tubi	ng 2" W	it. 4.7	#I.D.,	1.995	Set at 37	58 Pe	erf		То		
	Pay: From_										
										1	
Date	ucing Thru: of Complet	ion:	6-30-3	9 Pac	ker No	Sir ne	ngle-Brade	enhead-G.	G. or 0	.O. Dual	
	.						neser ve	orr remb.		:	
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16506	ed Through				<u>r)</u>			Туре Тар	s	ruge	
			low Data				Data	Casing D	ata		
No	(Prover)	(Chol	ke) Pre	ess. Dif	f. Temp.	Press	Temp.	Press.	Temp.		
No.	(Line) Size	(Orifi	ice) ze ps	sig h _w	o _F .	psig	°F.	psig	∘ _F .	of Flow Hr.	
SI	<u>}.</u>		5 8			439		395		72	
1.	L _M	1.7		9 16	69	297		356	65	24	
$\frac{2}{2}$	<u>La</u>	1.7		9 32	69	211	67	310	65	24	
1. 2. 3.	<u>Lu</u>	1.7			170	208	67	256	65	24	
4.	<u>Fa</u>	1.7			70	127	67	165	65	24	
4. 5.					+		 		 "		
No.	Coefficient (24-Hour)		$\sqrt{h_{w} p_{f}}$	Pressure psia	Fac	Temp.	Gravity Factor Fg	Factor		Rate of Flow Q-MCFPD @ 15.025 psia	
1. 2. 3.	19.27		22.69	32.2	32.2		.9393			1109	
2.	19.27		32.10	32.2	.9	915	•9393	1.001		577	
3。	19.27		41.30	32.2	.9	905	.9393	1.004		743	
4. 5.	19.27		52,30	32.2	.9	905	•9393	1.004		942	
			D-1 * 1	Dry Gas	PRESSURE C	ALCUIATI					
ravit.	quid Hydrod y of Liquid	arbon Hydro	carbone	Day was	cf/bbl. deg.		Speci	fic Gravit	ty Sepa	rator Gas680	
	Measured	11.5410	(1-e	SY	v δ•		P _C	IIC Gravi	D2	wing Fluid	
c			(· 	•	-rc—	1/616	_ ^r c	204.5	
No •	P _w	$P_{\mathbf{t}}^2$	F _c Q	(F _c Q)) ² (F	c ^{Q)2} -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cai	1. Pw Pc	
	369.2		 			/	186.3	68 9	P,		
2. 1	323.2		 				136.3	68.2 100.1	 	81.7	
3.	269.2		 	_			72.5		 	71.5	
4.1	178.2		 	- 			31.8	132.0	 	59.6	
1. 2. 3. 4.		 	 	 			21.0	172.7	1	39.5	
	ute Potenti NY N	al:	1100 nt		MCFPD;	n	21		<u> </u>		
ADDRE	SS 70	O Merc	antile B	ank Build	ing, Dal	as I. N	XAS		 		
	and TITLE	1	JIn.	1 July	n de	(2)		 -	·		
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COMPA		7									
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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 \equiv 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
- P_{w} 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.

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- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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 $P_{\rm t}$.