1-15-63

NEW MEXICO OIL CONSERVATION COMMISSION

			MULTI-	POINT BA	CK PRES	SURE TEST	FOR GAS	WELLS		Revised 12-1-55
Pool	Wildes	nt	Fo	rmation	(Penn)	Convon	Dol.	_County_	Eddy	, 24
Init	ial <u>X</u>	Annu	al		Spec	ial		_Date of	Test_1	/9-10/1963
Comp	any <u>Pal</u> y	in Lowe		I	ease	Indian Ba	sin "A"	We	LI No	1 (Upper)
Unit	_ <u>J</u> S	ec. <u>22</u> Tw	р. <u>21</u>	<u>.S_R</u> ge	23	E Purch	naser	None		
Casi	ng_7W	/t. <u>26.0</u> I	.D. <u>6.2</u>		, at	<u>385 Pe</u> i	cf. <u>750</u>	15	_To75	72
Tubi	ng <u>2"IORD</u> W	/t. <u>4.70</u> _I	.D. <u>1.9</u>	9 <u>5</u> _Set	at <u>72</u>			·	_To	
Gas :	Pay: From	<u>7505</u> To	7572	L728	<u>30 x</u>	G <u>Mix ≈.6</u>	<u>07_</u> GL <u>48</u>	56	Bar.Pr	ess. <u>13.2</u>
Prod Date	ucing Thru: of Complet	Casing ion: <u>2-24-</u>	-62	Tub	<u>Baker</u>	X Sing 'K" 7280 ED DATA	_Type We gle-Brade _Reservo	ll <u>Cas</u> - nhead-G. ir Temp.	Gas Dua G. or (146	1 G.O. Dual °F
rest	ed Through	(Vrdver) ((thoke)	<u>(Meter)</u>				Type Ta	ps <u>Fla</u>	nre
		Flow D				Tubing	Data	Casing	Data	T
No.	(Line)	(Omifice)							1	Duration of Flow
	Size	Size	psig	hw	°F.	psig	°F.	psig	°F.	Hr.
SI						2354				over 72
<u>.</u>	3,068	1.750	655	19.5	67	2306				66
2.	3,068	1.750	655	30.0	77	2256				66
3.	3.068	1,750	655	60.0	79	21:24			+	6
+• 5•	3.068	1.750	655	99,0	69	2018				55
		<u>+</u>	#	<u>ا</u>				L		- -
	Coeffici	ent	Pr					Compre	ess.	Rate of Flow

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor ^F t	Gravity Factor ^F g	Compress. Factor Fpv	Rate of Flow Q-MCTPD @ 15.025 psia
1.	20.15	98,43		, 9933	,972]	1.063	2036
2.	20.15	141.58		.9840	.9721	1.059	2890
3.	20.3.5	200.23		.9322	.9721	1.059	4079
4.	20.15	245.23		.9915	.9721	1.063	5062
5.							

PRESSURE CALCULATIONS

Jas Liquid Hydroca	arbon Ratio	83,831	cf/bbl.
Fravity of Liquid	Hydrocarbons	58.4	deg.
?c9.936	(1-e ⁻	s <u>).</u> 284	

Specific Gravity Separator Gas <u>.635</u> Specific Gravity Flowing Fluid <u>.7451</u> $P_c _ 2367.2 P_c^2$ 5603.5

No.	10P	P_t^2	F _c Q	$(F_cQ)^2$	$(F_cQ)^2$	P _w 2	$P_c^2 - P_w^2$	Cal.	Pw
	P _t (psia)	U			$(1-\epsilon^{-s})$		U N	P _w	Pw Pc
	2319.2	5378.7	20.23	469.3	116.2	5494.9	108.7	2344.1	. 9902
	2269.2	5149.3	23.72	<u>824, P</u>	234,2	5383.5	220.1	2320.2	,9801
	2367.2	4696,8	40.53	1542.7	466.5	5163.3	440.3	2272.3	.9599
•	2031.2	41.25.8	50.30	2539.0	718.5	4844.3	759.3	2201.0	.9298
•									
	lute Potent ANY	ial: Palpir I		M	CFPD; n	\$60			
DDR	ESS	P. 0. i	ka: 802.,	racional, De					
GEN	T and TITLE	: Az	due ?	Fan	Partitize .	ੀਬਾਂਦ, ਇੰਗ	olean Thy:	199627	
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	ANY								
	The state of the state			S. S. Low	DEMADIC	and the second second		C 11 77	

There all the second REMARKS Introductions: 7508-7517

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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- hw= Differential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft_ Flowing temperature correction factor.
- F_{py}- Supercompressability factor.
- n _ Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .