NEW MEXICO OIL CONSERVATION COMMISSION

-122

	MULTI-POINT BACK	PRESSURE TEST FOR	GAS WELLS	Revised 12-1-55
Pool Trabe (Cas)	Formation	Tubb	County	<u>S</u> .
InitialA	nnual	_Special	Date of Test_	<u>6-13-58</u>
Company fidewier Oi	Leas	e Percy Hardy	Well No.	2
UnitSec17	Twp. 218 Rge.	Purchaser	Bl Pase Estural	AS GO.
Casing		Perf	6200 To	6300
Tubing2-3/8 Wt.4.7	_I.D. 1.995 Set at	Perf	То	
Gas Pay: From 6200 To	5 6300 L 6240	xG695GI	L 4336.8 Bar.P	ress13.2
Producing Thru: Casing	gTubing	Туре	e Well	1
Date of Completion:	1-18-57 Packer	6540 V Rese	radenhead-G. G. or ervoir Temp. Uni n	

OBSERVED DATA

Tested Through (Provor) (Ghehe) (Meter)

Flow Data Tubing Data Casing Data (Prever) (Choke) Press. Diff. Temp. Press. Press. Temp. Temp. Duration No. (Line) (Orifice) of Flow °_F. °F. ⁻₽. Size Size psig h_w psig psig Hr. SI 1131 -----1. .750 4.65 2.3 66 1030 3 2. 65 64 .750 5.0 3.6 891 3 . 3. 750 4.85 6.0 621 4 3 4. 750 4.6 7.4 71 335 3 . 5. .759 225 4.5 6.0 76 24 4

	_			FLOW CALCULATIO	ONS		
	Coefficient		Pressure	Flow Temp.	Gravity	Compress.	Rate of Flow
No.	(24-Hour)	$\sqrt{h_w p_f}$	psia	Factor ^F t	Factor Fg	Factor F _{pv}	Q-MCFPD @ 15.025 psia
1.	10.8615	10.695	216.2	0.9943	.9292	1.022	109.68
2.	10.8615	18.000	250	0.9952	. 9292	1.029	186.03
3.	10,8615	\$9.10	235.2	0.9962	. 9292	1.027	300.48
4.	10.8615	34.04	211.6	0.9896	.9292	1.923	347.78
5.	10.0615	27.00	202.5	0.9850	.9292	1.022	274.12

PRESSURE CALCULATIONS

Gas Liquid	Hydrocarbon	Ratio		cf/bbl.
Gravity of	Liquid Hydro	ocarbons		deg.
Fc921	4	(1-e ^{-s})	.258	

Specific Gravity Separator Gas.695 Specific Gravity Flowing Fluid B Maria P_c 1131 P_c^2 1,279,161

Type Taps Flange

No.	Pt (psia)	P_t^2	F _c Q	(F _c Q) ²	$(F_cQ)^2$ $(1-e^{-s})$	P _w 2	$P_c^2 - P_w^2$	Cal. Pw	Pw Pc
	1030	1,060.900	.10171	.01035	.00267	1060.903	218.258	1030.1	.9108
2.	891	793.881	172524	.02976		793.889	485.272	891.1	.7879
3.	621	185.641	.278665	.07765	.02003	385. 661	893,500	621.1	, 5492
+•	335	112.225	.322531	.10403	.02684	112.252	L,166,910	335.1	.2963
5.	225	50.425	254	04472	.01670	50.792	1.228.360		.19903

KDDIU500		
AGENT and TITLE	Grady Oden, Cas Tester	
AGENT and TILLE		

WITNESSED	
COMPANY Tidemter Oil Company	
	REMARKS

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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 = Actual rate of flow at end of flow period at W. H. working pressure (P_w) . MCF/da. @ 15.025 psia and 60° F.
- Pc= 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

P_f_Meter pressure, psia.

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 h_w Differential meter pressure, inches water.

Fg Gravity correction factor.

Ft_Flowing temperature correction factor.

F_{pv}: 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 .