1 and the CF _NEW MEXICO OIL CONSERVATION COMMISSION RECEIVED MAR 1 1901 I ag in water Poor & Like Form C-122 D. C. R. Drised 12-1-55 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS ____Formation___ Pool WILDCAT _____County_ ____Date of Test2-20-61 & 2-21-61 Initial X ____Special_ Annual CompanyODESSA NATURAL GASOLINE COMPANY Ease EL PASO-STATE Well No. 1 Unit A Sec. 36 Twp. 17-8 Rge. 30-E Purchaser PENDING Jonswisten To 11,460 Casing 4-1/2 Wt.11.60 I.D.4.00" Set at 11,861 Perf 11,357 To 11,409 Perf. 11,404 Tubing 2-3/8 Wt. 4.7 I.D.1.995 Set at 11,430 X __GL_ X Gas Pay: From 11,357 To 11,471 L X xG Bar.Press. 13.2 Type Well___ Single Tubing X Producing Thru: Casing___ Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp. **160°F** Date of Completion: 2-11-61 Packer Packer OBSERVED DATA Type Taps_Flange Tested Through (Prover) (Choke) (Meter) Flow Data Tubing Data Casing Data (Choke) (Prover) Press. Diff. Temp. Press. Temp. Press. Temp. Duration (Orifice) of Flow (Line) o_F. $\circ_{F_{\bullet}}$ ЭF. Size $h_{\mathbf{W}}$ Size psig psig psig Hr. 3030 3.068 1.500 3097 3.068 1.500 800 95 2728 7591 2570 3.068 1.500 800 18 95 2420 3 1.500 3.068 42 7477 3 Ann BR 2289 1,500 3.068 800 52 **52** 2154 28110 3 3.068 1.500 900 65 80 1750 2100 24 FLOW CALCULATIONS Coefficient Gravity Rate of Flow Pressure Flow Temp. Compress. Q-MCFPD Factor Factor Factor $\mathbf{F}_{\mathbf{g}}$ $F_{p\underline{\boldsymbol{v}}}$ @ 15.025 psia $^{\prime}$ hwpf $\mathbf{F_t}$ (24-Hour) psia 85.544 14.35 0.9680 0.9366 1.076 1,199 0.9366 14.36 14.36 120.985 0.9680 1.076 1,694 0.9366 2,622 184.809 0.9741 1,083 0.9366 3,033 0.9981 1.099 14.35 205.536 0.9813 **0.9366** 14.35 243.630 1.097 PRESSURE CALCULATIONS _ cf/bbl. Specific Gravity Separator Gas 0.684 Gas Liquid Hydrocarbon Ratio 22,324 Fravity of Liquid Hydrocarbons 59 Specific Gravity Flowing Flui8.7971 ___deg.

No.

SI

2.

No.

$P_{\mathbf{w}}$	-2		(7.0)2	(n.o.)2	D 0	P _c -P _w ²	0-1
Nt (ps	ia) Pt	F _c Q	$(F_cQ)^2$	(F _c Q) ² (1-e ^{-s})	P _w 2	Pc-Pw	Cal.
2741.2			†		7514.2	2159.1	0.8
2583.2					6672.9	3000.4	0.8
2440.2					5954.6	3718.7	0.7
2313.2		—			5350.9	4322.4	10.7
2113.2		 	<u> </u>		4465.6	5207.7	0.6

O. BOX3908 ADDRESS P. AGENT and TITLE DAVID H. DONALDSON, PRODUCTION SUPERINTENDENT (and I havaiden WITNESSED COMPANY El Paso Natural Das Co.

REMARKS

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.
- $h_{\mbox{w}}$ Differential meter pressure, inches water.
- F_g Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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_{+} .