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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Blanco Formation Mesaverde County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test 11-17-58
 Company Occidental Petroleum Corp. Lease E Well No. 1-21
 Unit M Sec. 21 Twp. 26N Rge. 3W Purchaser _____
 Casing 7-5/8" Wt. 26.40# I.D. _____ Set at 4100 Perf. 6074 To 6146
5-1/2" Wt. 15.5# I.D. _____ Set at 6162 Perf. _____ To _____
 Tubing 2-3/8" Wt. 4.7 I.D. _____ Set at 6056 Perf. _____ To _____
 Gas Pay: From 6074 To 6146 L 6056 xG 0.620 -GL 3760 Bar.Press. _____
 Producing Thru: Casing _____ Tubing X Type Well G.G. Dual
 _____ Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 11-6-58 Packer 6056 Reservoir Temp. 55.9

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.	
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.		Press. psig
SI						1225			
1.		3/4	196		55.9				3 hr.
2.									
3.									
4.									
5.									

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w p_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.	12.365		208	1.0048	.9837	1.018	2566
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c 9.402 (1-e^{-s}) 0.239
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 1237 P_c 1530

No.	P _w P _t (psia)	P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _w ²	P _c ² -P _w ²	Cal. P _w	P _w /P _c
1.									
2.		43.3	25.307	640.4	145.4	188.7	1242		1.232
3.									
4.									
5.									

Absolute Potential: 3000 MCFPD; n .75 1.169

COMPANY Occidental Petroleum Corp.
 ADDRESS 120 So. Commercial, Farmington, New Mexico
 AGENT and TITLE T.A. Dugan, Consulting Engineer Original signed by T. A. Dugan
 WITNESSED Charles Warner
 COMPANY Northwest Production Corp.

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 = 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

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = 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 .

DRILLING DEPARTMENT

COMPANY Occidental Petroleum Corp.

LEASE E WELL NO. 1-21

DATE OF TEST 11-17-58

M.V. 1225 P.C. SHUT IN PRESSURE (PSIG): TUBING 970 P.C. CASING 969 S.I. PERIOD 9 DAYS

SIZE BLOW NIPPLE 3/4" T.C.

FLOW THROUGH Tbg. WORKING PRESSURES FROM None

TIME		PRESSURE	P.C. Tbg.	P.C. Csg.	TEMP
HOURS	MINUTES		0 (MGED)	WELLHEAD WORKING	
			15.025 PSIA & 60°F	PRESSURE (PSIG)	
	15	377	973	972	54
	30	287	973	972	54
	45	269	973	972	55
1	00	252	974	974	55
2	00	221	976	975	55
3	00	196	975	974	55

START AT 12:00 Noon END TEST AT 3:00 P.M.

REMARKS: Started blowing heavy spray of H₂O & Distillate continued throughout test.

TESTED BY : Jim Jacobs

WITNESS: Charles Werner

**OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE**

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