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NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Southern Blance Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 2-10-60
Company Occidental Petroleum Corp. Lease V Well No. 2-6
Unit A Sec. 6 Twp. 26N Rge. 5W Purchaser _____
Casing 5 1/2 Wt. 15.5 I.D. _____ Set at 3300 Perf. 3240 To 3180
Tubing 2 1/2 Wt. 2.4 I.D. _____ Set at 3231 Perf. open ended To _____
Gas Pay: From 3180 To 3240 L _____ xG 0.670 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single - gas
Date of Completion: 1-31-60 Packer _____ Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

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	Temp. °F.	
SI						<u>1870</u>		<u>1880</u>		
1.										
2.										
3.		<u>2 1/4</u>	<u>294</u>		<u>40</u>			<u>219</u>		<u>3 2/3</u>
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.							
3.	<u>12.9690</u>		<u>286</u>	<u>1.0117</u>	<u>0.9608</u>	<u>1.003</u>	<u>2575</u>
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1070 P_c 1192

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.									
3.	<u>287</u>					<u>684</u>	<u>308</u>		<u>2.348</u>
4.									
5.									

Absolute Potential: 2026 MCFPD; n .85 2.043
COMPANY Occidental Petroleum Corp.
ADDRESS 3000 Stearns Highway, Miramonte, California
AGENT and TITLE T. A. Sager, Consulting Engineer
WITNESSED _____
COMPANY _____

REMARKS

RECEIVED

FEB 18 1960

N. COM.
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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.
- 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 .

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