

3 OCC Aztec
1 Occidental
1 NW Prod
1 file

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Basin Formation Dakota County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 12-20-61
Company Occidental Petroleum Corp. Lease W Well No. 4-6
Unit X Sec. 6 Twp. 26N Rge. 5W Purchaser _____
Casing 5 1/2" Wt. 15.5 & 17 I.D. _____ Set at 7704 Perf. 7431 To 7676
Tubing 1 1/2" Wt. 2.4 I.D. _____ Set at 7618 Perf. 7615 To 7618
Gas Pay: From 7481 To 7676 L 7615 xG .650 -GL 4950 Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Dual Gas - Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 12-7-61 Packer 7420 Reservoir Temp. _____

OBSERVED DATA

Tested Through (PROVER) (Choke) (INJECTOR) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
1.						2586				
2.	2"	3/4"	185		51					3 hrs.
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.							
3.	12.3650		197	1.0088	0.9608	1.021	2411
4.							
5.							

PRESSURE CALCULATIONS

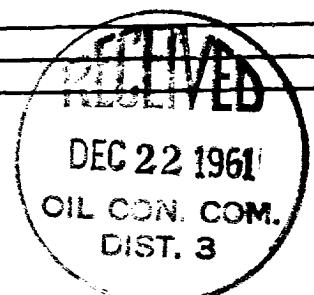
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 24.62 (1-e^{-s}) .302
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 2598 P_c² 6749

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.	197	39	59.3	3523	1064	1103	5646		1.1953
4.									
5.									

Absolute Potential: 2756 MCFPD; n .75 1.1432

COMPANY Occidental Petroleum Corporation
ADDRESS 5000 Stockdale Highway, Bakersfield, California
AGENT and TITLE T. A. Dugan, Engineer
WITNESSED Original signed by T. A. Dugan
COMPANY _____

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 .

STATE OF NEW MEXICO	
OIL AND GAS COMMISSION	
WELL NAME	
COUNTY	
WELL NO.	
DATE	
TIME	
TESTER	
SUPERVISOR	
OPERATOR	
LAND	
TRANSPORT	
FACILITY	
OPERATION	