

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

HOBBS OFFICE O.C.C.

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5/14/69 MAY 28 11 41 AM '69	
Company Continental Oil Company		Connection Transwestern Pipeline	
Pool Bell Lake Pennsylvanian		Formation Pennsylvanian (Morrow)	
Completion Date 7/31/68		Total Depth 15,120	Plug Back TD 13,445
Elevation 3833		Farm or Lease Name	
Csg. Size 4 1/2"	Wt. 16.6#	d 3.826	Set At 15,070
Perforations: From 13,249 To 13,432		Well No. 1	
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 11,942
Perforations: From Open To		Unit Sec. Twp. Rge. N 31 23S 34E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,942	County Lea
Producing Thru Tbg.	Reservoir Temp. °F 60° F	Mean Annual Temp. °F 60° F	Baro. Press. - P _g 13.2 psia
State New Mexico		Prover Meter Run Taps	
L 13,249	H 13,249	Gg .5783	% CO ₂ .47
% N ₂ .14	% H ₂ S 0	Flange	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1.	4		1250	915	24	110.4	1262	60°	0	60°	~2 hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	7.483	$\sqrt{24 \times 1262}$	1262	1.000	1.315	1.096	1877
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					Dry gas	Dry				
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w ²	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.		1304	1700	28462		
2.						
3.						
4.						
5.						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,989$			
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Absolute Open Flow	1,989 Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.00
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Remarks: Present rate of 1877 MCF/Day is essentially maximum capacity at delivery pressure.

Approved By Commission <i>[Signature]</i>	Conducted By: Continental	Calculated By: R. D. Turner	Checked By:
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NMOCC(3) TRANSWESTERN FILE