

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

Form C-122
 Revised 9-1-65

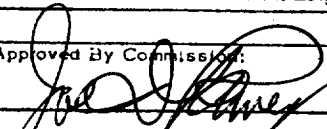
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 11/4/74	
Company Continental Oil Company				Connection None			
Pool Jalmat				Formation Yates		Unit E	
Completion Date 11/4/74		Total Depth 3725		Plug Back TD 3497		Elevation	
Farm or Lease Name Vaughn B-1		Well No. 6					
Csg. Size 7"	Wt. 6.5	d 2.441	Set At 3725	Perforations: From 3482 To 3670		Unit Sec. Twp. Rje. E 1 24 S 36	
Tag. Size 2 3/8	Wt. 6.5	d 2.441	Set At 3433	Perforations: From open end To		County Lea	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. O. Dual				Packer Set At 3433		State New Mexico	
Producing Thru Tbg.		Reservoir Temp. °F 108 @ 3433		Mean Annual Temp. °F 13.2		Baro. Press. - P _a 13.2	
L 3433	H 3433	G _g .633 Assumed	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI											
1.	2	x	.500	15		66	325				45 Min
2.	2	x	.500	24		67	307				45 Min
3.	2	x	.500	36		68	299				45 Min
4.	2	x	.500	50		68	286				45 Min
5.							259				60 Min

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	4.279		28.2	.9943	1.228	Nil	147
2	4.279		37.2	.9933	1.228	Nil	194
3	4.279		49.2	.9924	1.228	Nil	257
4	4.279		63.2	.9924	1.228	Nil	330
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.04	526	1.39	Nil	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.06	527	1.39	Nil	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.07	528	1.40	Nil	Specific Gravity Flowing Fluid _____ X X X X X
4.	.09	528	1.40	Nil	Critical Pressure _____ 670 P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ 378 R _____ R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 23.833$ (2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 4.882$ AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = .718$
1		331.1	109.6	4.8	
2		324.5	105.3	9.1	
3		314.2	98.7	15.7	
4		292.6	85.2	28.8	

Absolute Open Flow 718 Mcfd @ 15.025		Angle of Slope θ 63.5		Slope, n .500
Remarks: Point alignment too steep. A 63.5° slope was drawn through low rate of flow. No fluid made during test.				
Approved By Commission: 		Conducted By: Reggie Reston		Calculated By: Reggie Reston
				Checked By:

RECEIVED

NOV 14 1974

**OIL CONSERVATION COMM.
HOBBS, N. M.**