

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 1-20-81	
Company Estoril Producing Corp.				To Atmosphere	
Field Antelope Ridge				Strawn	
Completion Date		Total Depth 13,409		Elevation 3436 K.B.	
Csg. Size 5/8"		Well No. 1		Curry Fed.	
Liner 23# 29.7		Set At 11,550		Perforations: 12,048 To 12,197	
Tbg. Size 3 1/2"		Set At 11,350		Perforations: open ended To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple					
Single				Facker Set At 11,407	
Producing Thru Tbg.		Reservoir Temp. °F 195 @ 12,122		Mean Annual Temp. °F 60°	
L 12,122		H 12,122		Baro. Press. - P _a 13.2	
Gg .6335		% CO ₂ .228		% N ₂ 1.040	
% H ₂ S		Prover		Meter Run 4"	
Taps Flg.					

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"	x	1.750	900	65"	65°	6477		Pkr.	Choke	72 hours
2.	4"	x	1.750	900	49"	70°	5285			15/64	12.50
3.	4"	x	1.750	900	38"	76°	5485			12/64	0.50
4.	4"	x	1.750	900	25"	77°	5638			10/64	0.50
5.	4"	x	1.750	900			5800			8/64	0.75

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	14.93	243.63	913.2	.9952	1.256	1.088	4947
2	14.93	211.53	913.2	.9905	1.256	1.085	4263
3	14.93	186.28	913.2	.9850	1.256	1.080	3716
4	14.93	151.10	913.2	.9840	1.256	1.080	3011
5							

NO.	P _t	Temp. °R	T _r	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	1.36	525	1.43	.845	49.3	59.0	.6335	X X X X X X X X	670	368
2	1.36	530	1.44	.850				X X X X X		
3	1.36	536	1.46	.857						
4	1.36	537	1.46	.857						
5										

P _c 6490.2 P _w 42,122.7				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0173$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.6425$	
NO.	P _t	P _w	P _w ²	P _c ² - P _w ²			
1		5306.8	28,162	13,960.6			
2		5505	30301.	11821.3			
3		5655	31979.	10143.7			
4		5817	33837.	8,286			
5							

Absolute Open Flow 13,072		Mcf @ 15.025		Angle of Slope θ 48° 39'		Slope, n .8799	
Remarks:							

Approved By Commission	Conducted By: W.S.	Calculated By: M.K.	Checked By: M.K.
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Estoril Producing Corporation
 Curry Federal No. 1
 Test Date: January 20, 1981

L₁₀ 1000
 L₁₀ 1010
 .8799
 -0.48039

20-10-1000

ESTORIL PRODUING CORP.
 CURRY FEDERAL NO. 1
 KEUFFEL & ESSER CO.

