STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

RECEIVED
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OIL CONSERVATION DIVISION
SANTA FE

Correction

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 1-20-81	
Company: Estoril Producing Corp.			Connection: To Atmosphere		
Pool: Antelope Ridge			Formation: Strawn		Unit
Completion Date	Total Depth: 13,640		Plug Back TD: 12,882	Elevation: 3436 K.B.	Farm or Lease Name: Curry Federal
Csg. Size: 5 5/8 5½ liner	Wt.: 23# 29.7	d: 6.875 4.670	Set At: 11,550 11,363-13,409	Perforations: From 12,048 To 12,197	Well No.: 1
Tbg. Size: 3½	Wt.: 10.2#	d: 2.992	Set At: 11,350	Perforations: From Open ended To	Unit: 1 Sec.: 22 Twp.: 23S Rge.: 34E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single			Packer Set At: 11,407		County: Lea
Producing Thru: Tbg.	Reservoir Temp. °F: 195 @ 12,222		Mean Annual Temp. °F: 60°	Baro. Press. - P_a: 13.2	State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,222	12,222	.6335	.228	1,040			4"	Flg.

NO.	FLOW DATA: Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI		X					6477		Pkr.	Choke	72 hours
1.	4"	x	1.750	900	65"	65°	5285			15/64	12.50
2.	4"	x	1.750	900	49"	70°	5485			12/64	0.50
3.	4"	x	1.750	900	38"	76°	5638			10/64	0.50
4.	4"	x	1.750	900	25"	77°	5800			8/64	0.75
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	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
1	1.36	525	1.43	.845
2.	1.36	530	1.44	.850
3.	1.36	536	1.46	.857
4.	1.36	537	1.46	.857
5				

Gas Liquid Hydrocarbon Ratio 49.3 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 59.0 60° Deg.
Specific Gravity Separator Gas .6335 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .693
Critical Pressure 670 P.S.I.A. 699 P.S.I.A.
Critical Temperature 368 R 388 R

P_c 6490.2 P_c^2 42,122.7

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		5306.8	28,162	13,060.6
2		5505	30301.	11821.3
3		5655	31979	10143.7
4		5817	33837	8,286
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.0173$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.6425$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 13,072$

Absolute Open Flow 13,072 Mcfd @ 15.025 | Angle of Slope θ 48° 39' | Slope, n .8799

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
	W.S.	M.K.	M.K.