

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

Form C-122
Revised 9-1-65

OWWO

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-9-86			
Company Southland Royalty			Connection		
Pool Otero Chacra & Blanco MV			Formation Chacra - Mesa Verde		Unit
Completion Date 6-9-86		Total Depth 6944'	Plug Back TD 6886'	Elevation 6290'	Farm or Lease Name Whitley
Csg. Size 7.000	Wt. 23	d 6.366	Set At 4900'	Perforations: Chacra* From 3388 To 3408'	Well No. #7E
Tbg. Size 1.990	Wt. 2.8	d 1.610	Set At 4778'	Perforations: MV From 4654' To 4804'	Unit Sec. Twp. Rge. F 09 27 09
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 4806'	County San Juan
Producing Thru Tbg.		Reservoir Temp. °F a	Mean Annual Temp. °F	Baro. Press. - P _a 12	State New Mexico
L	H	G _a	% CO ₂	% N ₂	% H ₂ S
		.690			Prover
					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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							812		978		7 Days
1.		.750		145		60	145		660		3 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 F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		157	1.000	.9325	1.014	1836
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Meq/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons	Deq.
2					Specific Gravity Separator Gas	
3					Specific Gravity Flowing Fluid	
4					Critical Pressure	P.S.I.A.
5					Critical Temperature	R

P_r 990 P_c² 980100

NO.	P _r	P _w	P _w ²	P _c ² - P _w ²
1		672	451584	528,516
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{980100}{528,516}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5891$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2,918$

Absolute Open Flow	2918	Mcfd @ 15.025	Angle of Slope °	Slope, n .75
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Remarks: *4 1/4" Liner Set - 4820' - 6944'.
Gas vented during test = 320 MCF.

Approved By Commission:	Conducted By: B. Huntington	Calculated By: Scott H. Lindsay	Checked By: kld
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