

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 3-11-81	
Company El Paso Natural Gas Company		Connection El Paso Natural Gas Company	
Pool Blanco		Formation Mesa Verde	
Completion Date 3-4-81		Total Depth 6.456	
Plug Back TD 3162		Elevation 6271 GR	
Farm or Lease Name Sunray D		Well No. #2A	
Csq. Size 7.000	Wt. 20	Set At 3162	Perforations: From 5102 To 5500
Tbg. Size 2.375	Wt. 4.7	Set At 5468	Perforations: From To
Type Well - Single - Bradenhead - G.G. or G.O. Multiple G. G. Dual		Packer Set At 3052	
Producing Thru Tbg.		Baro. Press. - P _a 12	
Reservoir Temp. °F #		Mean Annual Temp. °F	
L		H	
G _g 0.650		% CO ₂	
% N ₂		% H ₂ S	
Prover		Meter Run	
Taps		County San Juan	
State New Mexico			

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							763				7 Days
1.	Choke		0.750	295		60					3 Hours
2.											
3.											
4.											
5.											

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 _{sc}	Rate of Flow Q, Mcfd
1	12.365		307	1.0000	0.9608	0.030	3757
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w ²	P _c ²	P _c ² - P _w ²
1	94249	615	378225	222400
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7007$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.1067$	
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 7915$			

Absolute Open Flow _____ Mcfd @ 15.025		Angle of Slope θ _____	
Slope, n _____		0.75	

Remarks: _____	
*4.500" Liner from 3050 to 5582	
Vented 500 MCF Gas During The Test.	

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Joe Golding	H. E. McAnally	