

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

Form C-122
Revised 9-1-65

RECEIVED
MAR 14 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 3-7-85	
Company El Paso Natural Gas				Connection	
Pool Basin				Formation Dakota	
Completion Date 3-7-85		Total Depth 7772		Plug Back TD 7763	
Elevation 6563 GR		Farm or Lease Name San Juan 29-7 U.			
Csg. Size 4.500	Wt. 10.5	d 4.052	Set At 7772	Perforations: From 7554 To 7759	
Well No. 31E					
Tbg. Size 1.900	Wt. 2.9	d 1.610	Set At 7739	Perforations: From To	
Unit A	Sec. 32	Twp. 29	Rge. 07		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At None	
Producing Thru CSG		Reservoir Temp. °F @		Baro. Press. - P _a 12	
State New Mexico		County Rio Arriba			
L	H	Gg .700	% CO ₂	% N ₂	% H ₂ S
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							2404		2409		7 days
1.			.750			64	574		291		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	12.365		303	.9962	.9258	1.036	3580
2.							
3.							
4.							
5.							

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

P _c 2421	P _c ² 5861241	
NO.	P _r ²	P _w ²
1	586	343396
2		
3		
4		
5		

(1) $\frac{P_c^2}{P_r^2 - P_w^2} = \frac{5861241}{5517845}$ (2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 1.0463$

AOF = Q $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 3746$

Absolute Open Flow 3746 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .75	
Remarks: Gas vented during test 656 MCF					
Produced a light mist of water throughout test					
Approved By Commission:		Conducted By: Norman Waggoner		Checked By: kld	
		Calculated By: Ed Mabe			