

RECEIVED
 MEXICO OIL CONSERVATION COMM. ON
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
 AUG 16 1974

Form C-122
 Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special				Test Date 8/8/74				61-495			
Company El Paso Natural Gas Company				Connection El Paso Natural Gas Company							
Pool Canyon Sand				Formation Canyon Sand				Unit L			
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
				7914		4475		Rocky Arroyo D Com.			
Csg. Size	Wt.	d	Set At	Perforations:				Well No.			
5 1/2	17		9083	From 7342 To 7348				2			
Tbg. Size	Wt.	d	Set At	Perforations:				Unit Sec. Twp. Rge.			
2 3/8	4.7	1.995	7250	From To				L 21 22 22			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple								Packer Set At		County	
Single										Eddy	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _g		State			
Tbg		130° 7274				13.2		New Mexico			
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
7250	7250	.684					4	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	
SI							1754	Shut-in Pressure			72 hr.
1.	4	x	1.000	460	9.6	85	1691				1 hr.
2.	4	x	1.000	463	17.6	82	1642				1 hr.
3.	4	x	1.000	465	29.2	80	1634				30 min.
4.	4	x	1.000	466	46.2	75	1615				1 hr.
5.	4	x	1.000	470	87.4	69	1570				1 hr.

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 _{pv}	Rate of Flow Q, Mcfd
1	4.753	67.40	473.2	.9768	1.209	1.046	396
2	4.753	91.55	476.2	.9795	1.209	1.047	540
3	4.753	118.17	478.2	.9813	1.209	1.048	698
4	4.753	148.79	479.2	.9859	1.209	1.051	886
5	4.753	205.50	483.2	.9915	1.209	1.054	1234

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
					40.5	
					A.P.I. Gravity of Liquid Hydrocarbons	62.6 @ 60
1.	.71	545	1.42	.914	Specific Gravity Separator Gas	XXXXXXX
2.	.71	542	1.41	.912	Specific Gravity Flowing Fluid	XXXXX
3.	.71	540	1.40	.910	Critical Pressure	669 P.S.I.A.
4.	.72	535	1.39	.906	Critical Temperature	385 R
5.	.72	529	1.37	.900		408 R

NO.	P _c	P _w	P _w ²	P _c ² - P _w ²
1	1767.2	1705.2	2907.6	215.4
2	3123.0	1657.1	2745.9	377.1
3		1650.3	2723.6	399.4
4		1633.3	2667.8	455.2
5		1593.5	2539.2	583.8

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.349$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.349$

ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.601$

Absolute Open Flow		6,601 Mcfd @ 15.025		Angle of Slope θ		45		Slope, n		1.000	
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Remarks: Well made 3.51 Bbl. of condensate during test. Point alignment was flat.
 A 45° slope was drawn through highest rate of flow.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	R. Reston & R. Pagan	Reggie Reston	

El Paso Natural Gas Company

Rocky Arroyo D COM. No. 2

Unit L-Sec. 21-Twp.22-Rge.22

Eddy County, N.Mex.

