

Form C-122
Revised 9-1-65

AS WELL
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~~JAN 30 1974~~

Type Test		☐ Initial ☐ Annual ☒ Special		Test Date 1-21-74		JAN 30 1974	
Company El Paso Natural Gas Company			Connection El Paso Natural Gas Company			O. C. C. ARTESIA, OFFICE	
Pool Rocky Arroyo			Formation Lower Wolfcamp			Unit	
Completion Date 11-10-71		Total Depth 9380		Plug Back TD 9353		Elevation 5300	
Csg. Size 5 1/2		Wt. 15.5		Set At 9380		Perforations: From 6563 To 6600	
Reg. Size 2 3/8		Wt. 4.7		Set At		Perforations: From 8876 To 8852	
Type Well - Single - Braconera - G.G. or G.O. Multiple				Packer Set At 8906		Well No.	
Gas-Gas Dual				Producing Thru		Reservoir Temp. °F 134	
Mean Annual Temp. °F 6563				Baro. Press. - P _a 13.2		State New Mexico	
Csg. 6582		H 6582		G _g 687		Prover 4"	
%		CO ₂		%		N ₂	
%		H ₂ S		Prover		Meter Run 14"	
%		H ₂ S		Prover		Taps Flc.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	4.026	x	1.250	379	14.8	77			695		2 1/2 hrs.
2	4.026	x	1.250	380	9.6	90			682	69	1 hr.
3	4.026	x	1.250	382	17.6	96			674	71	1 hr.
4	4.026	x	1.250	385	31.0	98			662	71	1 hr.
5									647	71	1 hr.

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, Mcf/d
1	7.469	43.39	392.2	.9840	1.206	1.040	400
2	7.469	61.44	393.2	.9723	1.206	1.038	559
3	7.469	83.40	395.2	.9671	1.206	1.037	753
4	7.469	111.10	398.2	.9653	1.206	1.036	1001
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.59	537	1.40	.924	113.10	54.3 @ 60°	.687	.713	669	385
2	.59	550	1.43	.929						
3	.59	556	1.44	.930						
4	.60	558	1.45	.931						
5										

P _r 708.2		P _w 501.5		$(1) \frac{P_r^2}{P_r^2 - P_w^2} = 15.721$		$(2) \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 18.435$	
NO	P _r ²	P _w ²	P _r ² - P _w ²	P _r ²	P _w ²	P _r ² - P _w ²	
1			487.2	14.3			
2			479.8	21.7			
3			469.6	31.9			
4			460.1	43.4			
5							

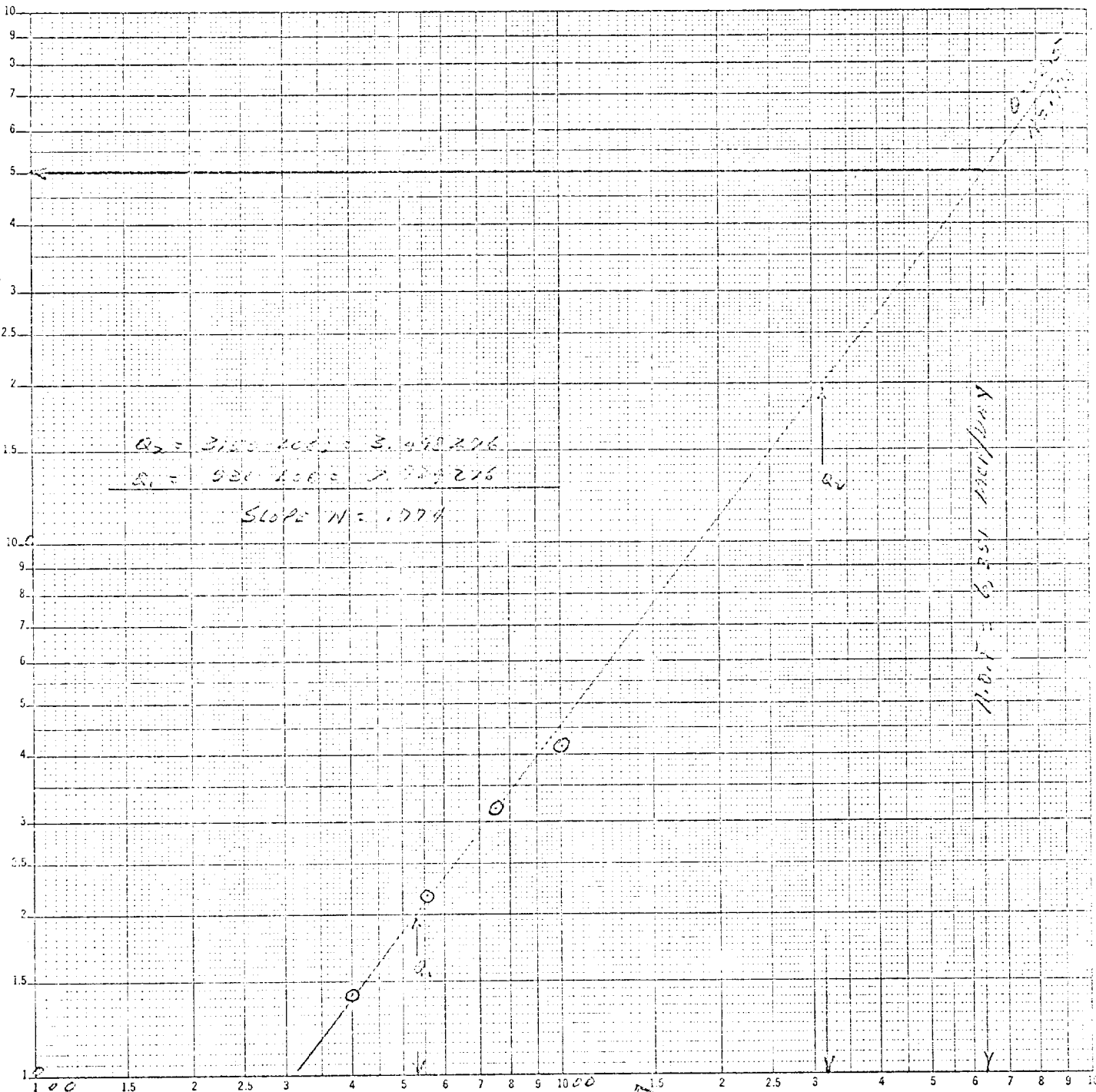
Absolute Open Flow		6,351		Mcf @ 15.025		Angle of Slope @		52.5		
Remarks: Made 1.17 Bbl. of API Gravity 54.3 @ 60°.										
Approved By Commission:			Conducted By:			Calculated By:			Checked By:	
Reggie Reston, Randy Kiker			R. Reston							

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 U.S. GEOLOGICAL SURVEY
 ARTESIA, NEW MEXICO

EL PASO NATURAL GAS COMPANY
 ROCKY ARROYO CUM #1
 J-8-22-72
 EDDY COUNTY, NEW MEXICO
 1-21-74

$P_0^2 - P_w^2$ (THOUS)

WALSH LOGARITHMIC 45 7200
 NO. 22 22 22 22 22
 MURPHY & LUGER CO.



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FIELD DATA SHEET (Not Required To File)

Type Test	☐ Initial	☐ Annual	☒ Special	Test Date	1-21-74	Lease No. or Serial No.
Company	El Paso Natural Gas Company			Connection	El Paso Natural Gas Co.	Allottee
Field	Rocky Arroyo	Reservoir	Lower wolfcamp	Location	J 8-22-22	Unit
Completion Date	11-10-71	Total Depth	9280	Plug Back TD	9353	Elevation
Csg. Size	5 1/2	Wt.	15.5	Set At	9280	Perforations: From To
1 1/2	2 3/8	Wt.	4.7	Set At	8956	Perforations: From To
Type Completion (Describe)	Single			Packer Set At	8906	Sec. Twp.-Blk. Rng.-S
Producing Thru	Csg.	Reservoir Temp. F	184 @ 6563	Mean Annual Temp. F	13.2	Baro. Press. - P _a
6582	6582	% CO ₂	687	% N ₂	% H ₂ S	Prover Meter Run
State						New Mexico

[illegible]

PHYSICAL SURVEY
ALBUQUERQUE, NEW MEXICO