

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-28-73		AUG 31 1973			
Company El Paso Natural Gas Co.						Connection None				O. C. C.	
Pool Wildcat						Formation Canyon Sand				Unit ARTESIA, OFFICE	
Completion Date 8-28-72			Total Depth 9256		Plug Back TD 9222		Elevation 4482 ft.		Farm or Lease Name Rocky Arroya C		
Csg. Size 5 1/2	Wt. 15.5	d	Set At 9256	Perforations: From 7292 To 7347				Well No. 1			
Tbg. Size 2 3/8	Wt. 4.7	d	Set At 8981	Perforations: From 9038 To 9052				Unit Sec. Twp. Rge. F 8 22 22			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At 8959		County Eddy			
Dual Completion			Reservoir Temp. °F 130 7274		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico		
Producing Thru Csg. 7320		H 7320	G _g 650 (Assumed)	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps *Positive Cks.		

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Flow 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									1978	74	72 hr.
1.	* 2	x 1/4		1907		73			1907	73	1 hr.
2.	* 2	x 5/16		1856		74			1856	74	1 hr.
3.	* 2	x 3/8		1822		72			1822	72	1 hr.
4.	* 2	x 1/2		1757		72			1757	72	1 hr.
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	1.112		1920.2	.9877	1.240	1.186	3,102
2	1.771		1869.2	.9868	1.240	1.183	4,792
3	2.591		1835.2	.9887	1.240	1.182	6,891
4	4.722		1770.2	.9887	1.240	1.179	12,082
5							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	2.87	533	1.42	.711	Dry	
2	2.79	534	1.42	.714	A.P.I. Gravity of Liquid Hydrocarbons	None
3	2.74	532	1.42	.716	Specific Gravity Separator Gas	.650 (Assumed)
4	2.64	532	1.42	.720	Specific Gravity Flowing Fluid	XXXXXX
5					Critical Pressure	670 P.S.I.A.
					Critical Temperature	375 °R

P _c 1991.2 P _c ² 3964.9				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 5.402$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.402$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 65.264$		
1			3693.5	271.4			
2			3509.2	455.7			
3			3399.5	565.4			
4			3230.9	734.0			
5							

Absolute Open Flow		65,264 Mcfd @ 15.025	Angle of Slope θ	45	Slope, n	1.000
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Remarks: Slope of curve was flat. Slope of 1.000 drawn through High rate of flow.
Trace of condensate produced during test.

Approved By Commission:	Conducted By: Roberts & Reston	Calculated By: J. B. Murray	Checked By:
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