

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

Form C-122
Revised 9-1-65

Type Test ☐ Initial ☐ Annual ☒ Special		Test Date 7-26-72	
Company EL PASO NATURAL GAS COMPANY		Connection El Paso Natural Gas Co.	
Pool Eumont		Formation Eumont	
Completion Date 7-26-72	Total Depth 4011	Plug Back TD 3590	Elevation 3630
Farm or Lease Name Coleman		Well No. 1	
Csg. Size 7"	Wt. 24	Set At 3619	Perforations: 3227 To 3247 From 3549 To 3559
Tbg. Size 2 3/8	Wt. 4.7	Set At 3552	Perforations: 3538 To 3541 From 3538 To 3541
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F 66.4	
Mean Annual Temp. °F		Baro. Press. - P _a	
State New Mexico		County Lea	
L	H	Gg	% CO ₂
		.664	
		% N ₂	% H ₂ S
Prover		Meter Run	
		X	
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							531		531		72 hrs.
1.	4	x	1.000	99	15.21	68	514	78	515		1 hr.
2.	4	x	1.000	99	31.14	66	504	82	506		1 hr.
3.	4	x	1.000	101	58.22	64	492	82	496		1 hr.
4.	4	x	1.000	102	86.49	64	480	85	485		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 Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	4.753	41.31	112.2	.9924	1.227	Nil	239
2	4.753	59.11	112.2	.9943	1.227	Nil	342
3	4.753	81.54	114.2	.9962	1.227	Nil	473
4	4.753	99.82	115.2	.9962	1.227	Nil	580
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Super Dry	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	.664	XXX XXX XXX X
2.					Specific Gravity Separator Gas	XXX XX	
3.					Specific Gravity Flowing Fluid	670	
4.					Critical Pressure	378	
5.					Critical Temperature		

$P_c = 544.2$ $P_c^2 = 296.2$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 6.171$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.862$
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1		528.2	279.0	17.2		
2		519.2	269.6	26.6		
3		509.2	259.3	36.9		
4		498.2	248.2	48.0		
5						

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.820$			Absolute Open Flow 2,820 Mcfd @ 15.025	Angle of Slope 49.0	Slope, n .869
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Remarks: **No fluid was recorded throughout test. Good point alignment, however, only 8% draw-down was obtained due to plate size. The orifice plate would have to be changed by Measurement Dept. in the meter run before required draw-down could be obtained.**

Approved By Commission:	Conducted By: J. C. Roberts and Reggie Reston	Calculated By: J. B. Murray	Checked By:
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RECEIVED

AUG 3 1972

OIL CONSERVATION COMM.
HOBBS, N. M.