

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST 1 GAS WELL

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-13-87	
Company Marshall Pipe & Supply				Connection NONE	
Pool Montoya				Unit J.T. McGee <i>com</i>	
Completion Date		Total Depth 7206		Elevation	
Csg. Size 5 1/2"		Wt. 17#		Set At 7206	
Tbg. Size 2 3/8"		Wt. 4.7		Set At 7020	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple				Packer Set At 7020	
Dual				County Roosevelt	
Producing Thru Tbg.		Reservoir Temp. °F 145 @ 7056		Mean Annual Temp. °F 60°	
Baro. Press. - P _g 13.2		State N.M.			
L 7056	H 7056	G _g .6895	% CO ₂ .095	% N ₂ 8.072	% H ₂ S 0
Prover		Meter Run 4"		Taps Flange	

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							1994		CHOKE		48 Hrs.
1.	4	X	1.000	480	3.00	92°	1946		8/64		1 Hr.
2.	4	X	1.000	490	10.00	80	1877		10/64		1 Hr.
3.	4	X	1.000	495	32.00	69	1773		12/64		1 Hr.
4.	4	X	1.000	500	19.00	67	1453		14/64		2 Hrs.
5.											

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	38.47	493.2	.9706	1.204	1.040	222
2	4.753	70.94	503.2	.9813	1.204	1.041	415
3	4.753	127.52	508.2	.9915	1.204	1.047	758
4	10.84	98.75	513.2	.9933	1.204	1.047	1340
5							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	56.6 Mcf/bbl.
1.	.75	552	1.50	.925	A.P.I. Gravity of Liquid Hydrocarbons	62.3 @ 60° Deg.
2.	.77	540	1.44	.923	Specific Gravity Separator Gas	.690
3.	.78	529	1.45	.912	Specific Gravity Flowing Fluid	X X X X X X X X
4.	.78	527	1.44	.912	Critical Pressure	65 P.S.I.A. *654
5.					Critical Temperature	366 R *379

NO.	P ₁ ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.194$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.875$
1			3839.6	189.3	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.513$	
2			3576.8	452.1		
3			3203.8	825.1		
4			2192.6	1836.3		
5						

Absolute Open Flow	2,513 Mcfd @ 15.025	Angle of Slope @	51°	Slope, n	.800
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Remarks: * N² Corrected
 Well made 3.0 Bbls. 62.3 @ 60 API Condensate during test.

Approved By Commission:	Conducted By: W.S.	Calculated By: B.M.	Checked By: B.M.
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