

MULTIPOINT AND ONE POINT BACK PRESSURE TEST OR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-29-82	
Company EXXON, U.S.A.		Connection TO ATMOSPHERE	
Pool E. Drama Ridge SAN SIMON		Formation MORROW	
Completion Date 7-30-82		Total Depth 13345	Plug Back TD 12,250
		Elevation 3950' K.B.	Farm or Lease Name N.M. D.A. STATE
Csg. Size 5 1/2"	Wt. 17.0	d 4.892	Set At 13322
		Perforations From 12638 To 12820	Well No. #2
Tub. Size 2 7/8"	Wt. 6.5	d 2.441	Set At 12530
		Perforations From OPEN To ENDED	Unit 31 21 35
Type Well - Single - Drivenhead - G.C. or G.O. Multiple SINGLE		Packer Set At 12530	County Lea
Producing Thru TUBING	Reservoir Temp. °F 201 @ 12729	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2
State NEW MEXICO			
L 12530	H 12530	G _g .612	% CO ₂ .48
		% N ₂ .85	% H ₂ S NIL
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
51							4280				72 HR.
1.	4"	x	1.500	495	3.0	86	3290				1 HR.
2.	4"	x	1.500	500	6.0	79	2605				1 HR.
3.	4"	x	1.500	510	13.0	80	1782				1 HR.
4.	4"	x	1.500	510	21.0	75	1203				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	10.84	39.05	508.2	.9759	1.278	1.039	548
2	10.84	55.49	513.2	.9822	1.278	1.041	786
3	10.84	82.47	523.2	.9813	1.278	1.043	1,169
4	10.84	104.82	523.2	.9859	1.278	1.044	1,495
5.							

NO.	R	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	NONE	Mcf/bbl.
1	.76	546	1.51	.927	A.P.I. Gravity of Liquid Hydrocarbons		Deg.
2	.76	539	1.49	.922	Specific Gravity Separator Gas	.612	X X X X X X X X
3	.78	540	1.49	.920	Specific Gravity Flowing Fluid	X X X X X	
4	.78	535	1.48	.918	Critical Pressure	671	P.S.I.A.
5					Critical Temperature	362	R

P _c 4293.2 P _c ² 18431.6				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.089$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.089$	
NO.	F ₁ ²	P _w	P _w ²	P _c ² - P _w ²			
1		3303.8	10915.1	7516.5			
2		2619.1	6859.7	11571.9			
3		1799.2	3237.1	15194.5			
4		1227.6	1507.0	16924.5			
5							

Absolute Open Flow		1,628	Mcfd @ 15.025	Angle of Slope θ	45°	Slope, n	1.000
Remarks: MADE NO FLUID DURING TEST.							
Approved by Division		Conducted By		Calculated By:		Checked By:	
<i>[Signature]</i>		BABER WELL SERV. CO.		B.M.		MARK ROWLAND	