

Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

clsf
File

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator MARALO INC.					Lease or Unit Name COCHITI 5 FEDERAL COM				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-19-95				
Completion Date 4-12-95		Total Depth 12220		Plug Back TD 12220		Elevation		Unit Ltr. - Sec. - TWP - Rge. 5-24S-29E	
Csg. Size 4 1/2"	Wt. 15#	d 3.826	Set At 12220	Perforations: From: 12202 To: 12204		County EDDY		Date MAY 1 1995	
Tbg. Size 2-7/8"	Wt. 6.5	d 2.440	Set At 10200	Perforations: From: 12125 To: 12125		Pool Malaga		Formation ATOKA	
Type Well - Single - Bradenhead - G.G. or H.O. Multiple single					Packer Set At 12125		Connection AIR		
Producing Thru TBG.		Reservoir Temp. °F 197		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Meter Run 3.068	
L *12125	II 12125	Gg .571	% CO ₂ .35	% N ₂ .77	% H ₂ S	Prover	Taps FLG.		

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI						5845			
1.	3.068 X 1.00		480	4	78	5622		PKR.	
2.	3.068 X 1.00		480	16	84	5250			1 hr.
3.	3.068 X 1.00		480	38	84	4595			1 hr.
4.	3.068 X 1.00		480	60	82	3795			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.	4.789	44.42	493.2	.9831	1.323	1.039	288
2.	4.789	88.83	493.2	.9777	1.323	1.039	572
3.	4.789	136.90	493.2	.9777	1.323	1.039	881
4.	4.789	172.02	493.2	.9795	1.323	1.039	1109
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1.	.73	538	1.55	.927	DRV GAS	
2.	.73	544	1.57	.927	A.P. L Gravity of Liquid Hydrocarbons DRV	Deg.
3.	.73	544	1.57	.927	Specific Gravity Separator Gas .571	XXXXXXXXXX
4.	.73	542	1.57	.927	Specific Gravity Flowing Fluid DRV	XXXXXX
5.					Critical Pressure 672	P.S.I.A.
					Critical Temperature 346	R

$p_c^* 5967.6$ $p_c^2 35612.25$

NO.	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1.		*5675.0	32205.63	3406.62
2.		*5287.3	27955.54	7656.71
3.		*4711.7	22200.12	13412.13
4.		*4073.7	16595.03	19017.22
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.873$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 1.57979$

3 AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^2 = 1752$

Absolute Open Flow 1752 Mcfd @ 15.025	Angle of Slope Θ 54°	Slope, n .72893
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Remarks: **** BHP INSTS. SET @ THIS DEPTH**
*** CALCULATED FROM KNOWN BHP'S**

Approved By Division	Conducted By: PRO WELL TESTER	Calculated By: KS	Checked By: BM
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