

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 1/15/74		JAN 22 1974	
Company MOBIL OIL CORP		Connection —		O.C.C. ARTESIA OFFICE	
Field SOUTH CARLSBAD		Formation MORROW		Unit 320	
Completion Date 1/7/74		Total Depth 12,200'		Plug Back TD 11,950'	
Elevation 3176 G.L.		Form or Lease Name STATE PR		Well No. 1	
Csg. Size 7"	Wt. 26#	d 6.276	Set At 12,200	Perforations: From 11950 To 11960	
Log. Size 2 3/4"	Wt. 14.6#	d 1.995	Set At 11945	Perforations: From 0E To —	
Type Well — Single — Bradenhead — G.G. or G.O. Multiple SINGLE				Packer Set At 11920	
Producing Thru TUBING		Reservoir Temp. °F 197° 12,200'		Mean Annual Temp. °F 60°	
Baro. Press. — P _a 13.2		State NEW MEXICO		County EDDY	
L 11945	H 11955	G _g .5882	% CO ₂ 1.19	% N ₂ 1.28	% H ₂ S —
Prover —		Meter Run 4"		Tags 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	
1.	4 X 1.5			210	8	67	3775	60	110	—	96 HRS ST.
2.	4 X 1.5			225	19	60	3577	60	110	—	1 HR
3.	4 X 1.5			250	56	41	3045	60	110	—	1 HR
4.	4 X 1.5			220	23	41	2730	60	110	—	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 _{sp}	Rate of Flow Q, Mcfd
1.	10.84	21.15	223.2	.9933	1.303	1.067	1215
2.	10.84	126.20	238.2	1.000	1.303	1.071	1909
3.	10.84	219.86	263.2	1.019	1.303	1.085	3433
4.	10.84	262.98	233.2	1.019	1.303	1.081	4692
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio — Mcf/Dbl.	
1.	1.22	527	1.49	.879	A.P.I. Gravity of Liquid Hydrocarbons	— Deg.
2.	1.24	520	1.47	.871	Specific Gravity Separator Gas	XXXXXXX
3.	1.28	501	1.42	.849	Specific Gravity Flowing Fluid	XXXXX
4.	1.23	501	1.42	.855	Critical Pressure	676 P.S.I.A.
5.					Critical Temperature	353 R

NO.	P _t	P _w	P _t ²	P _w ²	P _t ² - P _w ²	(1) $\frac{P_t^2}{P_t^2 - P_w^2} =$	(2) $\left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n =$
1.	14313	3791	14369	1537		10.348	5.735
2.	12829	3669	13025	2881			
3.	9353	3126	9770	6136			
4.	7525	2247	8163	7803			
5.							

Absolute Open Flow 6968 Mcfd @ 15.025		Angle of Slope 53° 13'		Slope, n .7474	
Remarks: WELL STABILIZED AT THE END OF EACH HOUR FLOW.					
Approved By Commission:		Conducted By: A.R. ALAMEDDINE W.H. BRADFIELD		Calculated By: A.R. ALAMEDDINE	
				Checked By: A.R. ALAMEDDINE	