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Form C-122
Revised 1-65

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

SEP 28 1973

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 9-19-73			
Company TEXACO Inc.				Connection None			O.C.C. ARTESIA, OFFICE	
Pool White City Penn				Formation Morrow			Unit	
Completion Date 9-17-73		Total Depth 11443		Plug Back TD 11379		Elevation 3435 gr		Farm or Lease Name NCT-1
Csg. Size 4.5	Wt. 11.60	d 3.875	Set At 11443	Perforations: From 11335 To 11350		Well No. 1		
Tbg. Size 2.375	Wt. 4.70	d 1.995	Set At 11133	Perforations: From To		Unit Sec. Twp. Rge. G 30 24S 26E		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single					Packer Set At 11133		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 190 @ 11133		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 11133	H 11133	G _g 0.578	% CO ₂ 1.76	% N ₂ 0.3	% H ₂ S 0.0	Prover -	Meter Run 4.026	Taps Flg

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							3751	60			36
1.	4	x	200	45.6	4.0	68	3582	78			1.0
2.	4	x	2.00	45.6	14.4	64	3328	78			1.0
3.	4	x	2.00	45.6	32.5	54	2939	78			1.0
4.	4	x	2.00	190.9	16.8	48	2424	76			1.0
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	19.81	15.3	58.8	0.9924	1.315	1.004	399
2	19.81	29.1	58.8	0.9966	1.315	1.005	762
3	19.81	43.7	58.8	1.0058	1.315	1.004	1154
4	19.81	58.6	204.1	1.0117	1.315	1.018	1576
5							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.09	528	1.50	0.991	284.9 Mcf/bbl.	58.0 Deg.	0.578	XXXXXXX	681 P.S.I.A.	351 R
2	.09	524	1.49	0.991			XXXXX	0.588	681 P.S.I.A.	354 R
3	.09	514	1.46	0.991						
4	.30	508	1.45	0.965						
5										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	12925.5	3597	12936.7	1232.5	1.726	1.484
2	11163.6	3345	11188.4	2980.8		
3	8715.5	2960	8762.9	5406.3		
4	5939.9	2453	6018.9	8150.3		
5						

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$ **2340**

Absolute Open Flow 2340 Mcfd @ 15.025		Angle of Slope 54.1	Slope, n .7235
Remarks:			
Approved By Commission:	Conducted By: Lee	Calculated By: Computer	Checked By: