

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

Form C-122
Revised 9-1-65

RECEIVED

JUN 21 1976

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 6-8-76	
Company YATES PETROLEUM CORPORATION				Connection NONE	
Pool <i>Willcox Shale</i>				Formation STRAWN	
Completion Date June 3, 1976		Total Depth 8,948'		Plug Back TD 8,180'	
Elevation 3748 KB -17		Form or Lease Name C.C. TANK UNIT 1			
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 8214	Perforations: From 8101 To 8107	
Well No. 1					
Tub. Size 2	Wt. 4.7	d 1.995	Set At 8088	Perforations: From 8091 To 8093	
Unit F	Sec. 28	Twp. 19	Rnge. 24		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 8088 - 8091	
Producing Thru TUBING				County EDDY	
Reservoir Temp. °F 148 @ 8054		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State NEW MEXICO					
L 8104	H --	G _g 0.5823	% CO ₂ 0.253	% N ₂ 0.390	% H ₂ S --
Prover		Meter Run X		Taps P	

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. DWT	Temp. °F	Press. p.s.i.g.		Temp. °F
51							2527	75	PACKER		120.0
1.	3 6/64	1.500	320	6	92	2392	75				1.0
2.	3 10/64	1.500	325	19	92	2096	78				1.0
3.	3 14/64	1.500	325	32	93	1678	80				1.0
4.	3 20/64	1.500	325	42	90	1162	80				1.0
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	12.94	44.71	333.2	0.9706	1.311	1.021	751.6
2	12.94	80.16	338.2	0.9706	1.311	1.021	1347.6
3	12.94	104.03	338.2	0.9697	1.311	1.021	1747.3
4	12.94	119.18	338.2	0.9723	1.311	1.021	2007.1
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.50	552	1.60	0.960	DRY GAS	
2.	0.50	552	1.60	0.960	A.P.I. Gravity of Liquid Hydrocarbons	
3.	0.50	553	1.60	0.960	Specific Gravity Separator Gas	0.5823
4.	0.50	550	1.59	0.959	Specific Gravity Flowing Fluid	XXXXXX
5.					Critical Pressure	673
					Critical Temperature	346

NO.	P _r ²	P _w ²	R _w ²	P _r ² - R _w ²	(1) $\frac{P_r^2}{P_r^2 - R_w^2} =$	(2) $\frac{P_r^2}{P_r^2 - R_w^2} =$
1	2907.2	8451.8	943.7		9.956	3.460
2	2579.2	6652.3	2743.2			
3	2175.2	4731.5	4664.0			
4	1901.2	3614.6	5780.9			
5						

Absolute Open Flow 2601 Mcfd @ 15.025 Angle of Slope @ 61° 38" Slope, n 0.540

Remarks: * BHP @ (-4356) 8104' USED FOR PRESSURE CALCULATIONS.

Approved By Commission:	Conducted By: JARREL COMPANY	Calculated By: JOE A. COLEMAN	Checked By: JOE A. COLEMAN
-------------------------	---------------------------------	----------------------------------	-------------------------------