

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

Form C-122
Revised 9-1-65

RECEIVED

JUL 15 1974

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-26-74	
Company Texas Oil & Gas Corporation		Connection To Air	
Pool Burton Flat		Formation Morrow	
Completion Date 6-20-74		Total Depth 11,690'	Plug Back TD 11,650'
		Elevation 3265 GR	Farm or Lease Name Yates Federal
Csg. Size 4 1/2"	Wt. d	Set At 11,690'	Perforations: From 11,289' To 11,420'
Tbg. Size 2 3/8"	Wt. d	Set At 11,128'	Perforations: From open To ended
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single		Packer Set At 11,120'	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 186 @ 11,150'	Mean Annual Temp. °F 60	Baro. Press. - P _g 13.2
L 11150	H 11150	Gg 0.6464	% CO ₂ 1.85
		% N ₂ 3.92	% H ₂ S -0-
		Prover Positive Chokes	Meter Run Taps

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	Positive Chokes						3591.0				
1.	14/64						1569.0	79			90 Min
2.	12/64						1969.0	81			60 Min
3.	10/64						2316.0	82			60 Min
4.	8/64						2751.0	82			60 Min
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.	0.8419		1582.2	0.9822	1.244	1.117	1818
2.	0.6101		1982.2	0.9804	1.244	1.134	1673
3.	0.4173		2329.2	0.9795	1.244	1.135	1344
4.	0.2618		2764.2	0.9795	1.244	1.129	996
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.	2.37	539	1.50	0.802	dry	0.6464	XXXXXX	XXXXX	667	360
2.	2.97	541	1.50	0.778						
3.	3.49	542	1.51	0.776						
4.	4.14	542	1.51	0.784						
5.										

P _c 4723.2	P _c ² 22309	(1) $\frac{P_c^2}{P_e^2 - P_w^2} = 1.2916$	(2) $\left[\frac{P_c^2}{P_e^2 - P_w^2} \right]^n = 1.2354$
NO.	P _t ²	P _w	P _w ²
1	2503	2244.2	5036
2	3929	2755.2	7591
3	5425	3187.2	10158
4	7641	3731.2	13922
5			

Absolute Open Flow	2246	Mcfd @ 15.025	Angle of Slope	50.5°	Slope, n	0.826
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Remarks: Bottom Hole Pressures measured with Amerada Bomb @ 11,150 feet.

Approved By Commission:	Conducted By: M.C.T.	Calculated By: R.L.W.	Checked By: J.W.W.
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JUL 12 1974

NEW MEXICO GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO