

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 10-8-73		NOV - 7 1973	
Company Texas Oil & Gas Corp.			Connection None				
Pool Wildcat			Formation Strawn			Unit ARTESIA, OFFICE	
Completion Date 10-1-73		Total Depth 11,712'		Plug Back TD 11,665'		Elevation 3270 GL	
Farm or Lease Name Yates Federal							
Csg. Size 4 1/2	Wt. 13.5&11.6	d	Set At 11,712	Perforations: From 10,456 To 10,514		Well No. 1	
Tbg. Size 2 3/8	Wt. 4.6	d	Set At 10,417	Perforations: From To		Unit Sec. Twp. Rge. N 8 20S 29E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,417		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 150° 10,480		Mean Annual Temp. °F 60		Baro. Press. - P _a 132	
State New Mexico							
L 10,417	H 10,417	G _g 0.588	% CO ₂ 0.10	% N ₂ 0.25	% H ₂ S None	Office well tester	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							3465		Packer		
1.	2		1 1/2			74	3322		Packer		60"
2.	2		1 1/2			76	3252		Packer		60"
3.	2		1 1/2			76	3193		Packer		60"
4.	2		1 1/2			78	3138		Packer		60"
5.											

RATE OF FLOW CALCULATIONS						
NO.	Coefficient (24 Hour)	Orifice well tester $\sqrt{h_w P_m}$	Pressure P _m Hg	Flow Temp. Factor Ft.	Gravity Factor	Rate of Flow Q, Mcfd
1	719		6	.9868	1.0	720
2	1047		12	.9850	1.0	1047
3	1274		17	.9850	1.0	1274
4	1520		23	.9831	1.0	1517
5						

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 41.9 Mcf/bbl.
1.	5.39	546	1.55	0.847	A.P.I. Gravity of Liquid Hydrocarbons 51 Deg.
2.	5.09	546	1.55	0.805	Specific Gravity Separator Gas 0.588
3.	4.99	545	1.55	0.806	Specific Gravity Flowing Fluid XXXXX
4.	4.90	542	1.54	0.819	Critical Pressure 672 P.S.I.A.
5.					Critical Temperature 352 °R

P _c 3478.2 P _c ² 12,098				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	3295	3322	11038	1060
2	3204	3252	10578	1520
3	3102	3193	10198	1900
4	2960	3138	9848	2250
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 5.377$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5.377$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8156$$

Absolute Open Flow 8156	Mcf @ 15.025	Angle of Slope 45	Slope, n 1
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Remarks:

Approved By Commission:	Conducted By: Paul Scherzer	Calculated By: [Signature]	Checked By:
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