

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3/26/80			
Company TEXACO Inc.				Connection					
Pool Gramma Ridge Morrow, East (Gas)				Formation Morrow				Unit	
Completion Date 3/26/80		Total Depth 13,300'		Plug Back TD 12,988		Elevation 3562'		Farm or Lease Name N.M. 'DU' State	
Csg. Size 4 1/2" Liner	Wt. 15.5	d 3.826	Set At 10898'	Perforations: From 12,870' To 12,872'		Well No. 1			
Tbg. Size 2-3/8"	Wt. 5.30	d 1.942	Set At 12,750'	Perforations: From -- To --		Unit Sec. Twp. Rge. F 12 22-S 34-E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12,750		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 154 @ 12,871'		Mean Annual Temp. °F 70		Baro. Press. - P _g 13.21		State New Mexico	
L 12,871	H 12,871	Gg 0.630	% CO ₂ 0.0	% N ₂ 0.0	% H ₂ S 0.0	Prover		Meter Run 4.026	Taps 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.	
SI							5400	70		
1.	4" x 1.250"			185.0	8.0	65	4720	70		
2.	4" x 1.250"			290.0	22.5	80	3675	71		
3.	4" x 1.250"			300.0	39.0	80	2975	74		
4.	4" x 1.250"			320.0	59.0	80	2600	75		
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	7.4690	39.8	198.2	0.9952	1.260	1.022	388.
2	7.4690	82.6	303.2	0.9813	1.260	1.030	800.
3	7.4690	110.5	313.2	0.9813	1.260	1.031	1071.
4	7.4690	140.2	333.2	0.9813	1.260	1.034	1362.
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.30	525.	1.36	0.958	41.7	
2.	0.46	540.	1.40	0.942	52.0	
3.	0.47	540.	1.40	0.940	0.630	
4.	0.50	540.	1.40	0.936		
5.						

P _c 5413	P _c 229302.8		
NO.	P _t ²	P _w	P _w ²
1	22403.2	4735	22418.2
2	13602.9	3694	13643.5
3	8929.4	2998	8989.8
4	6828.9	2630	6914.9
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.309$

ROF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1782$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.309$

Absolute Open Flow	1782	Mcf/d @ 15.025	Angle of Slope @	45.000	Slope, n	1.00000
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Remarks: **Calculated by Computer**

Original Signed By			
Approved By Completion: Jerry Sexton Dist 1, Supv.	Conducted By: R. S. Lane	Calculated By: Computer	Checked By:

RECEIVED

APR 23 1980

OIL CONSERVATION DIV