

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

RECEIVED BY

Form C-22
Revised 9-1-65

MAY 8 1984

O. C. D.

ARTESIA, OFFICE

Type Test:		☒ Initial		☐ Annual		☐ Special		Test Date		4/30/84					
Company				Connection											
GETTY OIL COMPANY ✓				NONE											
Pool				Formation				Unit							
PECOS SLOPE ABO				ABO											
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name							
4/29/84		4200		4157		3732.1 GR		Getty P.S. 7 Federal							
Csq. Size	Wt.	d	Set At	Perforations:				Well No.							
4.5	11.6 & 10.5	4.000	4200	From 3854 To 4046				1							
Tbg. Size	Wt.	d	Set At	Perforations:				Unit Sec. Twp. Rge.							
2 3/8	4.7#	1.995	3847	From Open To Ended				0 7 6 26							
Type Well - Single - Bradenhead - G.G. or G.O. Multiple								Packer Set At		County					
Single								None		Chaves					
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State							
Tbg.		97° @ 4200		60		13.2		New Mexico							
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps							
3847	3847	0.779	0.96	27.6	-	-	3"	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.	Temp. °F	Duration of Flow				
SI							966		978						
1.	3	x	1	300	4	74	960	74	970	74	1/2				
2.	3	x	1	300	16	74	950	74	958	74	1/2				
3.	3	x	1	300	36	74	930	74	940	74	3/4				
4.	3	x	1	300	64	74	900	74	914	74	1 1/2				
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	4.801	35.39	313.2	0.9868	1.133	1.022	194.17								
2	4.801	70.79	313.2	0.9868	1.133	1.022	388.34								
3	4.801	106.18	313.2	0.9868	1.133	1.022	582.51								
4	4.801	141.58	313.2	0.9868	1.133	1.022	776.68								
5															
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.										
1	0.503	534	1.571	0.957	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.										
2	0.503	534	1.571	0.957	Specific Gravity Separator Gas 0.779 X X X X X X X X										
3	0.503	534	1.571	0.957	Specific Gravity Flowing Fluid X X X X X										
4	0.503	534	1.571	0.957	Critical Pressure 623 P.S.I.A. _____ P.S.I.A.										
5					Critical Temperature 340 R _____ R										
P _c 991.2 P _c ² 982.5															
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 9.823$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4.939$										
1		983.2	966.7	15.8	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,655$										
2		971.2	943.2	39.3											
3		953.2	908.6	73.9											
4		927.2	859.7	122.8											
5															
Absolute Open Flow 3,655 Mcfd @ 15.025 Angle of Slope _____ Slope, n 0.699															
Remarks: The 95% and 75% Flowing pressure criteria was not met, to avoid returning frac sand and to minimize waste.															
Approved By Commission:				Conducted By:				Calculated By:				Checked By:			
				Joe Tippy				Phil Smith PWS				Don Steinner			

Post FD-2
5-25-84
Camp & BK