

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 2-14-80			
Company Getty				Connection Llano, Inc.					
Pool East Grama Ridge - Morrow				Formation Morrow				Unit -	
Completion Date 1-3-80		Total Depth 13,435		Plug Back TD 12,853		Elevation 3607 GL		Farm or Lease Name Getty 1 State	
Csg. Size 5	Wt. 18	d 4.151	Set At 13,434	Perforations: From 12,820 To 12,825			Well No. 1		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12,692	Perforations: From - To -			Unit F	Sec. Twp. Rye. 1 22-S 34-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Morrow Gas/Single						Packer Set At 12,692		County Lea	
Producing Thru Tubing		Reservoir Temp. °F 179 @ 13,435		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NM	
L 12,692	H 12,692	Gg .06112	% CO ₂ .53	% N ₂ 3.50	% H ₂ S -	Prover -	Meter Run 3"	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.		Temp. °F
SI							6100	88	Packer		SI 17 hrs.
1.	3" x 1.00	3/64		530	3	70	5550	86	-	-	1/2 hr.
2.	3" x 1.00	4/64		530	5.5	78	5510	85	-	-	3/4 hr.
3.	3" x 1.00	6/64		540	27	87	4800	84	-	-	1 hr.
4.	3" x 1.00	7/64		540	35.5	91	4100	82	-	-	1 1/2 hr.
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	4.789	39.87	530	.9905	1.279	1.048	253.50
2	4.789	53.99	530	.9831	1.279	1.042	338.76
3	4.789	120.75	540	.9750	1.279	1.043	752.12
4	4.789	138.45	540	.9715	1.279	1.041	857.63
5.							

NO.	P _t	Temp. °R	T _t	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.79	530	1.46	.911	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.	.79	538	1.49	.921	Specific Gravity Separator Gas _____ X X X X X X X X
3.	.80	547	1.51	.920	Specific Gravity Flowing Fluid _____ X X X X X
4.	.80	551	1.52	.923	Critical Pressure 671 _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature 362 _____ R _____ R

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1	-	7340.2	53,878	8,646
2	-	7228.2	52,247	10,277
3	-	6812.2	39,844	22,680
4	-	5761.2	33,191	29,333
5				

* P_c 7894 P_c² 62,315

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.131$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.131$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,828$

Absolute Open Flow 1,828 Mcfd @ 15.025

Angle of Slope θ _____

Slope, n 1.00

Remarks: *P_c & P_w from 'bottom hole pressure recorder at (-9216) 12,823'

Approved By Commission: <i>[Signature]</i>	Conducted By: Bill Kneff	Calculated By: Dexter J. Bates	Checked By: Herman Terry
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COMPANY: Getty Oil Company
 WELL: Getty 1 State No. 1
 LOCATION: F, 1-22S-34E
 DATE: 2-14-80

