

N / MEXICO OIL CONSERVATION COMM ON
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 8-23-79			
Company Getty Oil Company				Connection TUCO, Inc.					
Pool East Grama Ridge - Morrow				Formation Morrow				Unit -	
Completion Date 7-13-79		Total Depth 13,350'		Plug Back To 13,266'		Elevation 3674' GL		Farm or Lease Name Getty "36" State Com.	
Csg. Size 4 1/2"	Wt. 11.6	d 4.000	Set At 13,349'	Perforations: From 12,940' To 12,950'				Well No. 1	
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 12,000'	Perforations: From _____ To _____				Unit Sec. Twp. Rge. F 36 21S 34E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Morrow Gas/Wolfcamp Oil-Dual				Packer Set At 10,495/12,200'		County Ira			
Producing Thru Tubing		Reservoir Temp. °F 175° 13,347'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 12,000	H 12,000	Gg .6040	% CO ₂ .780	% N ₂ 2.557	% 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							5750	87	Packer		S.I. 2 1/2 hrs.
1.	3" x 1.50"	4/64	330	6	56	5320	86	-	-	-	1 hr.
2.	3" x 1.50"	6/64	340	16.5	44	4950	84	-	-	-	1 hr.
3.	3" x 1.50"	8/64	345	35.5	38	4300	84	-	-	-	1 hr.
4.	3" x 1.50"	11/64	360	53.0	36	2950	83	-	-	-	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	11.13	45.38	343.2	1.004	1.287	1.031	673
2	11.13	76.34	353.2	1.016	1.287	1.035	1150
3	11.13	112.77	358.2	1.022	1.287	1.035	1708
4	11.13	140.64	373.2	1.024	1.287	1.038	2141
5.							

NO.	F _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	.51	516	1.44	.941	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	.53	504	1.41	.933	Specific Gravity Separator Gas _____
3	.53	498	1.39	.933	Specific Gravity Flowing Fluid _____
4	.53	496	1.39	.929	Critical Pressure _____ P.S.I.A.
5.					Critical Temperature _____ R

*P _c 7472.2 P _c ² 55,833						
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.461$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.308$
1		6895.2	47,544	8,290		
2		6475.2	41,929	13,906		
3		5757.2	33,145	22,688		
4		4283.2	18,346	37,488		
5						

Absolute Open Flow _____ 3944 _____ Mcfd @ 15.025		Angle of Slope @ _____	Slope, n _____ 929 _____
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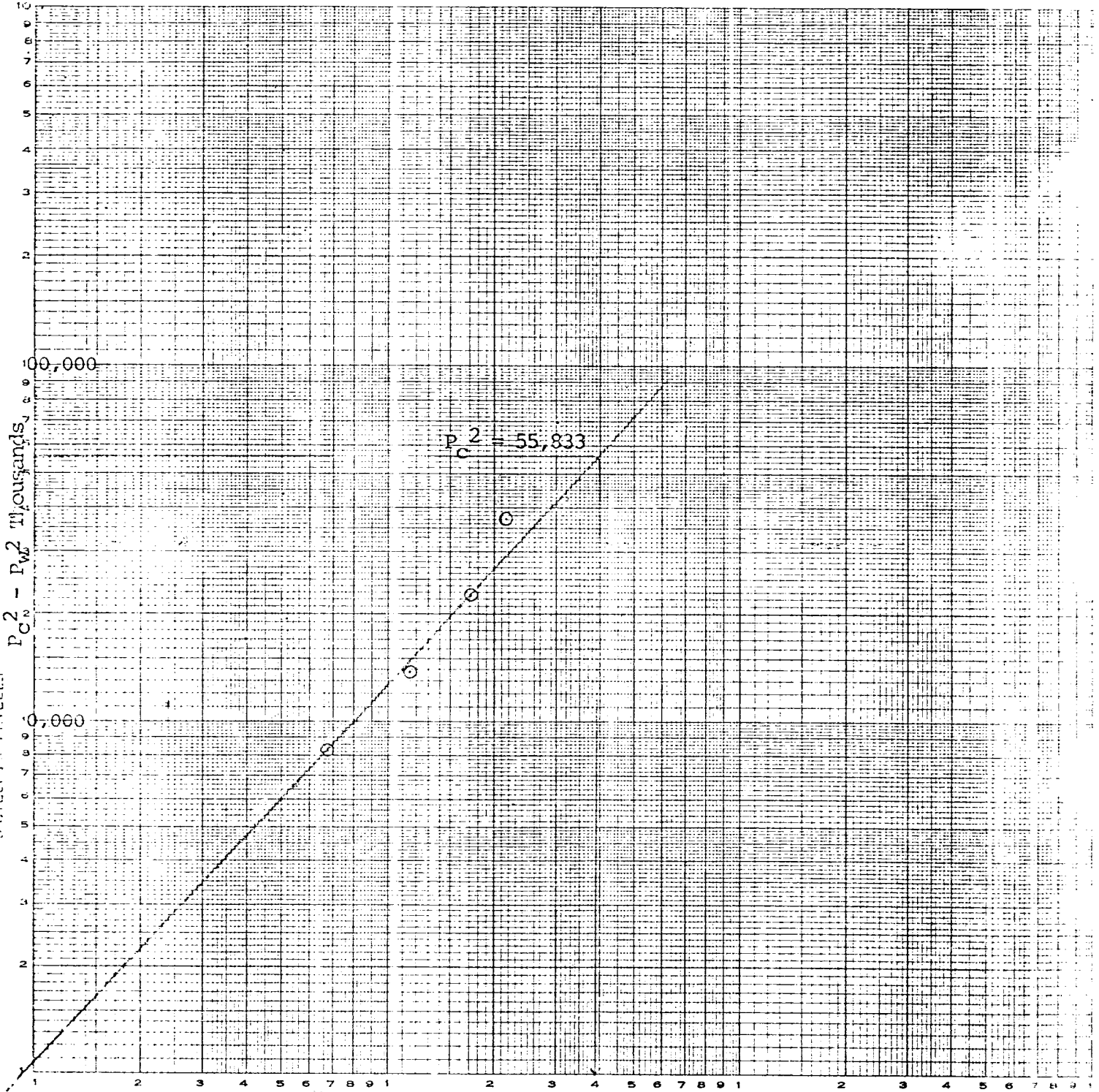
Remarks: *P_c & P_w from bottom hole pressure recorder @ (-9253) 12,945'

Approved By Commission: Wm. W. Nunn	Conducted By: Bill Krafft	Calculated By: Deter Bates	Checked By: D. R. Crockett
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COMPANY: Getty Oil Company
 WELL: Getty 36 State Com. #1
 LOCATION: F, 36-21S-34E
 DATE: 8-23-79

EUGENE DITZGEN CO.
 MADE IN U. S. A.

NO. 3400-100 DITZGEN GRAPH PAPER
 LOGARITHMIC
 10 CYCLES X 10 CYCLES



Q - MCFD

AOF = 3944 MCFD

AUG. 8