

NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL
 3-NMOCC
 1-Midland
 1-File

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date Oct. 30, 1967					
Company Getty Oil Company				Connection							
Pool Eumont				Formation Eumont Gas				Unit			
Completion Date Oct. 29, 1967			Total Depth		Plug Back TD 3930		Elevation		Farm or Lease Name State "J"		
Csg. Size 7"	Wt. 24	d 6.336	Set At 3905	Perforations: From 3600 To 3623		3633-3686		Well No. 4			
Tbg. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 3541	Perforations: From To Open End				Unit 17	Sec. 19	Twp. 37	Rge.
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 3531		County Lea			
Producing Thru Tubing		Reservoir Temp. *F a		Mean Annual Temp. *F		Baro. Press. - P _a 13.2		State New Mexico			
L 3541	H 3541	Gg .677	% CO ₂ 1.67	% N ₂ 3.97	% H ₂ S 13.24	Prover		Meter Run X	Taps Flg.		

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							614			
1.	3 x 1.750			42	30	45	550			
2.	3 x 1.750			50	62	43	529			
3.	3 x 1.750			50	90	42	509			
4.	3 x 1.750			70	85	43	486			
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	15.61	40.69	55.2	1.015	1.215	Neg.	784
2	15.61	62.59	63.2	1.017	1.215	Neg.	1,208
3	15.61	75.41	63.2	1.018	1.215	Neg.	1,456
4	15.61	84.09	83.2	1.017	1.215	Neg.	1,622
5.							

NO.	R	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ None _____ Mcf/bbl.	
1.	.083	505	1.32	Neg.	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.	.094	503	1.32	Neg.	Specific Gravity Separator Gas _____ X X X X X X X X	
3.	.094	502	1.31	Neg.	Specific Gravity Flowing Fluid _____ X X X X X _____ Dry Gas	
4.	.124	503	1.32	Neg.	Critical Pressure _____ 669 _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ 382 _____ R _____ R	

P_c 627.2 P_c² 393.4

NO	P _i ²	P _w	P _w ²	P _c ² - P _w ²
1	317.2		325.5	67.9
2	294.0		313.7	79.7
3	272.7		301.4	92.0
4	249.2		285.3	108.1
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{393.4}{108.1}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.39$

AGF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5,499$

Absolute Open Flow	5499	Mcfd @ 15.025	Angle of Slope θ	47°	Slope, n	.932
Remarks:						

Approved By Commission:	Conducted By: Boaz and Read	Calculated By: Boaz and Read	Checked By: Original Signed By C. L. WADE
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