

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 6-15-76			
Company Union Oil Co. of California				Connection				
Pool Wildcat				Formation Lower Canyon				Unit
Completion Date 6- 2-76		Total Depth 9,380'		Plug Back TD 9,075'		Elevation 4386' GR.		Farm or Lease Name Roberts
Csg. Size 4-1/2" OD	Wt. 11.60#	d 4.000"	Set At 9,276'	Perforations: From 8,905' To 8,916'			Well No. 1	
Tbg. Size 2-3/8" OD	Wt. 4.70#	d 1.995"	Set At 8,850'	Perforations: From To			Unit Sec. Twp. Rge. D 9 7-S 33-E	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 8,850'			County Roosevelt	
Producing Thru Tubing		Reservoir Temp. °F 145 @ 8,900'		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico
L 8,850'	H 8,850'	Gg 0.761	% CO ₂ 4.2	% N ₂ 6.2	% H ₂ S 0.0	Prover Orifice	Meter Run 2"	Taps Pipe

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
1.	2"	x	1.250	13.2	21	54	13.2	54	Pkr.		3 Hours
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	10.31	61.39	13.2	1.006	1.146	1.000	729.7
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 25.34 Mcf/bbl.
1.	0.0198	514	1,201	1.000	A.P.I. Gravity of Liquid Hydrocarbons 54.0 Deg.
2.					Specific Gravity Separator Gas .761 X X X X X X X X
3.					Specific Gravity Flowing Fluid .762 X X X X X
4.					Critical Pressure 665 P.S.I.A. P.S.I.A.
5.					Critical Temperature 428° R R

P _c 2901	P _c ² 8415	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.063$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.063$	
NO.	P _t ²	P _w *	P _w ²	P _c ² - P _w ²	
1	250	704	495.6	7919	
2					
3					
4					
5					

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 775.7$$

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.063$$

Absolute Open Flow 775.7 Mcfd @ 15.025	Angle of Slope θ 45°	Slope, n 1.0
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Remarks: * SIBHP and FBHP calculated from surface data utilizing Cullender-Smith method adapted to computer.

Approved By Commission:	Conducted By: David Gomendi	Calculated By: W. G. Murray	Checked By: J. G. Hawkins
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RECEIVED

JUL 13 1976

OIL CONSERVATION COMM.
HOBBSS, N. M.