

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

Form C-122
Revised 9-1-65

Copy to J.

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-6-67	
Company Union Oil Company of Calif.				Connection None		
Pool Wildcat				Formation Permian-Penn		Unit
Completion Date 3-31-67		Total Depth 10,765		Plug Back TD 10,569		Elevation 3,077 CL
Csg. Size 5 1/2"		Wt. 17 & 20		Set At 4,773		10,764
Tbg. Size 2 3/8"		Wt. 4.74		Set At 1,995		9,446
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 9,446		County Bddy
Producing Thru Tubing		Reservoir Temp. °F 154.0 @ 9,800		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2
L 9,446		H 9,446		G _a 0.722		% CO ₂ 0.25
				% N ₂ 0.69		% H ₂ S 0
				Prover		Meter Run 4.026
						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.	
SI										
1.	4.026		1.500	813	2	102	1200	75	PKR	
2.	4.026		2.75	78	9	76	601	75	PKR	
3.	4.026		2.75	92	10.5	76	312	75	PKR	
4.	4.026		2.75	73	14	73	282	75	PKR	
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	10.84	40.3	826.2	0.9619	1.179	1.037	539
2	41.1	28.6	91.2	0.9850	1.179	1.012	1351
3	41.1	33.23	105.2	0.9850	1.179	1.012	1605
4	41.1	34.7	88.2	0.9877	1.179	1.010	1677
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	1.24	562	1.41	.847	A.P.I. Gravity of Liquid Hydrocarbons	53.9
2.	0.17	536	1.35	.976	Specific Gravity Separator Gas	0.72
3.	0.16	536	1.35	.977	Specific Gravity Flowing Fluid	XXXXXX
4.	0.13	533	1.34	.981	Critical Pressure	659 P.S.I.A.
5.					Critical Temperature	308 °R

NO.	P _i ²	P _w	P _w ²	P _e ² - P _w ²	(1) $\frac{P_e^2}{P_e^2 - P_w^2} =$	(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n =$
1.	1471.854	1503	2,274.1	20,283.4	1.0063	1.075
2.	427.978	782.8	612.8	21,959.0		
3.	105.8	761.2	579.4	21,983.1		
4.	46.3	375.5	141.0	22,421.5		
5.						

Absolute Open Flow		1,710 Mcfd @ 15.025	Angle of Slope θ	5°	Slope, n	1.00
Remarks:						
Approved By Commission:		Conducted By:		Calculated By:		Checked By:
		R. T. Thomas		J. E. Wyrick		