

N MEXICO OIL CONSERVATION COM. ION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/28/74		JUL 2 1974	
Company Penroc Oil Corporation				Connection None				O. C. C. ARTESIA, OFFICE	
Formation Morrow				Unit B					
Completion Date		Total Depth 11,100		Plug Back TD 10,900		Elevation 7,257.5		Farm or Lease Name Allied Com	
Well Size 4 1/2	Wt. 16.25	d 11,100	Set At	Perforations: From 10,622 To 10,871		Well No. 1			
Top Size 2 3/8	Wt.	d 10,580	Set At	Perforations: From To		Unit Sec. Twp. Rge. B 27 20 27			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At Lower 8464		County Eddy	
Producing Thru Csg.		Reservoir Temp. °F 181 @ 10,746 (Est.)		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L 8464	H 8464	G _g .637	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51									3203	
1.	4	x	1.000	670	11.5	64			3059	84
2.	4	x	1.000	765	30.0	88			2900	85
3.	4	x	1.000	775	45.0	73			2730	88
4.	4	x	1.000	780	66.0	56			2497	86
5.										

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	4.753	88.64	683.2	.9962	1.253	1.068	562
2	4.753	152.79	778.2	.9741	1.253	1.067	946
3	4.753	188.33	788.2	.9877	1.253	1.075	1191
4	4.753	228.80	793.2	1.004	1.253	1.086	1486
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.02	524	1.41	.876	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.16	548	1.47	.879	Specific Gravity Separator Gas .637 _____
3	1.18	533	1.43	.865	Specific Gravity Flowing Fluid _____
4	1.18	516	1.39	.848	Critical Pressure 670 _____ P.S.I.A.
5					Critical Temperature 372 _____ R

NO.	P _t ²	P _w	P _w ²	P _t ² - P _w ²	(1) $\frac{P_c^2}{P_t^2 - P_w^2} = 2.566$	(2) $\left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.708$
1		3072.5	9440.3	903.7		
2		2913.9	8490.8	1853.1		
3		2750.0	7562.5	2781.4		
4		2512.6	6313.2	4030.8		
5						

Absolute Open Flow 2,538 _____ Mcfd @ 15.025				Angle of Slope 60.5°		Slope, n 568	
Remarks: No fluid made during test.							
Approved By Commission:		Conducted By: Rick Pagan		Calculated By: Rick Pagan		Checked By:	