

W MEXICO OIL CONSERVATION COM SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 5-65

RECEIVED

JUL 2 1974

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/28/74							
Company Penroc Oil Corporation						Connection None				B.C.C. ARTESIA, OFFICE			
Well 1						Formation Wolfcamp				Unit B			
Completion Date			Total Depth 11,100			Plug Back TD 10,900		Elevation 3,200		Farm or Lease Name Allied COM			
Comp. Size 4 1/2	Wt. 16.25	d	Set At 11,100	Perforations: From 8540 To 8623				Well No. 1					
Test Size 2 3/8	Wt.	d	Set At 10,580	Perforations: From To				Unit B	Sec. 27	Twp. 20	Range 27		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual Gas-Gas						Packer Set At Upper 8464 Lower 10580				County Eddy			
Producing Thru Tbg.		Reservoir Temp. °F 1590° 8540		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico					
L 8540	H 8540	Gg .683	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 3"	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.	Temp. °F	
1.	3	x	1.500	500	7.0	83	1925	87			1 hr.
2.	3	x	1.500	500	9.0	65	1748	84			1 hr.
3.	3	x	1.500	500	24.0	69	1537	82			1 hr.
4.	3	x	1.500	500	39.0	70	1369	82			1 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, Mcid
1	11.13	59.94	513.2	.9786	1.210	1.051	830
2	11.13	67.96	513.2	.9952	1.210	1.060	965
3	11.13	110.98	513.2	.9915	1.210	1.058	1568
4	11.13	141.47	513.2	.9905	1.210	1.056	1993
5							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 12.481 Mcf/bbl.
1	.77	543	1.41	.905	A.P.I. Gravity of Liquid Hydrocarbons 51.6 @ 60° Deg.
2	.77	525	1.36	.890	Specific Gravity Separator Gas .683 XXXXXX
3	.77	529	1.37	.893	Specific Gravity Flowing Fluid XXXXX G Mix = .914
4	.77	530	1.38	.896	Critical Pressure 669 P.S.I.A. 662 P.S.I.A.
5					Critical Temperature 385 R 461 R

P _r 2180.2	P _w 4753.3		
NO.	P _r	P _w	P _r ² - P _w ²
1	1939.6	3761.9	991.4
2	1763.3	3109.1	1644.2
3	1556.2	2421.7	2331.6
4	1393.0	1940.5	2812.8
5			

(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.690$

AOF = Q $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 3.368$

(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.690$

Absolute Open Flow 3.368 Mcid @ 15.025	Angle of Slope θ 45	Slope, n 1.000
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Remarks: 17.88 Bbls. of distillate made during test.

Approved By Commission:	Conducted By: Rick Pagan, Reggie Reston	Calculated By: Pagan, Reston	Checked By:
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