

W MEXICO OIL CONSERVATION COM. SION
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 8-27-74		SEP 3 1975	
Company Penroc Oil Corporation.				Connection None				O. C. C.	
Pool Undesignated Wildcat				Formation Morrow				Unit ARTEZIA, OFFICE	
Completion Date 8-27-74		Total Length 11,226		Depth Back TD 11,188		Elevation		Farm or Lease Name Foxy Federal	
Chd. Size 4 1/2	Wt. 11.6	d	Set At 11,226	Perforations: From 10842 To 11125		Well No. 1		Unit Sec. Twp. Hgt. F 18 20 28	
Thd. Size 2 3/8	Wt. 4.8	d	Set At 10790	Perforations: From open To ended		Unit F		County Eddy	
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single				Packer Set At 10,790		State New Mexico			
Producing Thru Tbg.		Reservoir Temp. *F 184 10984		Mean Annual Temp. *F		Baro. Press. - P _a		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Flg.	
		.622					3		

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
SI							2509				72 hr.
1.	3 x 1.500			640	11	68	1505	73			1 hr.
2.	3 x 1.500			620	8	82	1496	76			1 hr.
3.	3 x 1.500			310	10	79	1538	79			1 hr.
4.	3 x 1.500			305	8	80	1776	78			1 hr.
5.	3 x 1.500			280	5	78	1920	80			1 hr.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{pv}	Rate of Flow Q, Mscf/d
1	11.13	84.77	653.2	.9924	1.268	1.058	1256
2	11.13	71.17	633.2	.9804	1.268	1.052	1034
3	11.13	56.85	323.2	.9822	1.268	1.027	800
4	11.13	50.45	318.2	.9813	1.268	1.026	716
5	11.13	38.29	293.2	.9831	1.268	1.025	514

NO.	P _t	Temp. *R	T _t	Z	Gas Liquid Hydrocarbon Ratio	36.40	Ref. Data
1	.97	528	1.45	.893	A.P.I. Gravity of Liquid Hydrocarbons	52 @ 60	Dep.
2	.94	542	1.48	.903	Specific Gravity Separator Gas	XXXXXX	XXXXXX
3	.48	539	1.48	.948	Specific Gravity Flowing Fluid	XXXXX	G MIX - 1.25
4	.47	540	1.48	.950	Critical Pressure	671	P.S.I.A.
5	.44	538	1.47	.951	Critical Temperature	365	R

NO.	P _t	P _w	P ₂	P ₂ - P _w	(1) $\frac{P_c^2}{P_2^2 - P_w^2} = 1.511$	(2) $\left[\frac{P_c^2}{P_2^2 - P_w^2} \right]^n = 1.522$
1	1534.9	2355.8	4005.7			
2	1520.7	2312.4	4049.1			
3	1548.0	2427.3	3934.2			
4	1793.7	3217.4	3144.1			
5	1935.6	3746.6	2614.9			

At Bottom	1.638	At M * 15.025	Angle of Slope	450	Slope, n	1.000
Remarks: Well made by Fbl. water and 5 Fbl. condensate. Point alignment flat, e.g. Slope was drawn through 2nd flow rate.						
Approved By	Checked By	Calculated By	Checked By			
	Reggie Reston	Reggie Reston				

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