

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

Form C-122
Revised 9-1-65

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122 file

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6-23-77		Recompleted Well							
Company Petroleum Corp. of Delaware		Connection O.C.O. KATEBIA, OFFICE		El Paso Natural Gas Co.							
Pool E. Burton Flat Thru Russell		Formation Strawn		Unit M							
Completion Date 5-16-77		Total Depth 11710		Plug Back TD 11000							
Elevation 3308 ft.		Farm or Lease Name Superior Federal Cam.									
Csg. Size 5 1/2	Wt. 17	d 	Set At 	Perforations: From 10512 To 10528							
Tbg. Size 2	Wt. 3.3	d 1.67	Set At 10,475	Perforations: From open To end							
Type Well - Single - Brodenhead - G.G. or G.O. Multiple Single				Packer Set At 10,475							
Producing Thru Tbg.		Reservoir Temp. °F 178 @ 10,475		Mean Annual Temp. °F 							
Baro. Press. - P _a 13.2		State New Mexico									
L 10,475	H 10,475	Gg .657	% CO ₂ 	% N ₂ 	% H ₂ S 						
Prover -4"		Meter Run 		Taps Flg.							
FLOW DATA											
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	Duration of Flow
SI							2882		shut-in		72 hrs.
1.	4	x	1.500	490	4.0	76	2587				1 hr.
2.	4	x	1.500	505	8.1	74	2470				1 hr.
3.	4	x	1.500	505	16.0	70	2335				1 hr.
4.	4	x	1.500	505	27.6	64	2137				1 hr.
5.											
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, Mcfd				
1	10.84	44.86	503.2	.9850	1.234	1.047	619				
2	10.84	64.79	518.2	.9868	1.234	1.050	898				
3	10.84	91.06	518.2	.9905	1.234	1.051	1268				
4	10.84	119.59	518.2	.9962	1.234	1.052	1676				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 26.554 Mcf/bbl.						
1.	.75	536	1.43	.912	A.P.I. Gravity of Liquid Hydrocarbons 60 @ 60 Deg.						
2.	.77	534	1.42	.907	Specific Gravity Separator Gas .657						
3.	.77	530	1.41	.905	Specific Gravity Flowing Fluid X X X X X						
4.	.77	524	1.40	.903	Critical Pressure 670 P.S.I.A.						
5.					Critical Temperature 375 R						
P _c 2895.2 P _c ² 8382.2					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.352$						
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.352$						
1		2630.3	6918.5	1463.7							
2		2502.0	6260.0	2122.2							
3		2380.3	5665.8	2716.4							
4		2195.0	4818.0	3564.2							
5											
Absolute Open Flow 3,942 Mcfd @ 15.075					Angle of Slope 45		Slope, n 1.000				
Remarks: Made 7.00 Ebbls' condensate during test.											
Approved By Commission:		Conducted By:		Calculated By:		Checked By:					
		Reggie Reston		Reggie Reston							