

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

Form C-122
Revised 6-63

☒ Initial		☐ Annual		☐ Special		9-17-79	
Company PETROLEUM DEVELOPMENT CORP.				Location None			
Field Undesignated				Formation Morrow			
Completion Date 9-15-79		Total Depth 13032		Plug Back To 12979		Elevation 3716 KB	
Land or Lease Name Pedco Gulf Fed COM				Well No. 2			
Cas. Size 4 1/2	Wt. 12.7	d 13032	Set At 13032	Perforations: From 12896 To 12902		Well No. 2	
Log. Size 2 3/8	Wt. 4.7	d 1.995	Set At 12902	Perforations: From Open To end		Unit A 33 18S 32E	
Type well - Single - Horizontal - G.G. or G.O. Multiple Single				Packer Set At 12902		County Lea	
Producing thru Tbg.		Reservoir Temp. °F 203 @ 12899		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State New Mexico							
L 12899	R 12899	G _g .641	% CO ₂ .57	% N ₂ .32	% H ₂ S .05	Prover	Meter Run 4"
FLOW DATA				TUBING DATA			
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
1.	4	X	1.500	380	4.0	83	72 hr.
2.	4	X	1.500	385	8.5	58	1 hr.
3.	4	X	1.500	390	17.0	75	1 hr.
4.	4	X	1.500	395	35.0	75	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. Compens. Factor, F _{pv}	Rate of Flow O. Mhd
1.	10.84	39.66	393.2	.9786	1.249	1.035	544
2.	10.84	58.18	398.2	1.002	1.249	1.041	822
3.	10.84	82.79	403.2	.9859	1.249	1.037	1146
4.	10.84	119.53	408.2	.9859	1.249	1.038	1656
5.							
NO.	P _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 34.73		
1.	.59	543	1.46	.933	A.P.I. Gravity of Liquid Hydrocarbons 56 @ 60		
2.	.59	518	1.39	.923	Specific Gravity Separator Gas .641		
3.	.60	535	1.44	.930	Specific Gravity Flowing Fluid X X X X X		
4.	.61	535	1.44	.929	Critical Pressure 670		
5.					Critical Temperature 372		
* r _c 4436.9 r _c ² 19686.1							
NO.	B.H.P.	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.318$		
1.	4663.2	3494.7	12212.9	7473.2	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.318$		
2.	4221.2	3133.2	9816.9	9869.2			
3.	3702.2	2717.8	7386.4	12299.7			
4.	2993.2	2179.1	4748.5	14937.6	AGF = 0 $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2183$		
5.	5779.2						
Absolute Open Flow 2,183				Mhd @ 15.025		Angle of Slope 45°	
						Slope, n 1.000	
Remarks: * All pressures obtained from bottom hole bomb set @ 12,600'.							
** Bottom hole shut-in pressure.							
Well made five (5) barrels oil and no water during test.							
Approved By Commission:		Conducted By: Petr. Dev. Corp.		Calculated By: Bob McMurray		Checked By: <i>[Signature]</i>	

RECEIVED SEP 25 1979

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OCT 16 1977
O.C.D. HOBBS, OFFICE