

COPY TO O. C. C.
 NEW MEXICO OIL CONSERVATION COMMISSION
 MULTIPPOINT A ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-77

Type Test ☒ Initial ☐ Annual ☐ Special		Date 9-17-79	
Company PETROLEUM DEVELOPMENT CORP.		Location None	
Field Undesignated		Formation Morrow	
Completion Date 9-15-79	Total Length 13032	Flag Hole To 12979	Elevation 3716 KB
Form or Lease Name Pedco Gulf Fed COM		Well No. 2	
Csg. Size 4 1/2	Wt. 12.7	Set At 13032	Perforations From 12896 To 12902
Tub. Size 2 3/8	Wt. 4.7	Set At 12902	Perforations From Open To end
Type well - Single - Proveness - G.C. 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		Unit Sec. Twp. Rge. A 33 18S 32E	
L 12899	R 12899	Gg .641	% CO ₂ .57 % N ₂ .32 % H ₂ S .05
Prover 4"		Meter Run 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
5!							4025				72 hr.
1.	4	x	1.500	380	4.0	83	3228				1 hr.
2.	4	x	1.500	385	8.5	58	2895				1 hr.
3.	4	x	1.500	390	17.0	75	2517				1 hr.
4.	4	x	1.500	395	35.0	75	1976				1 hr.
5.											

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U. S. GEOLOGICAL SURVEY HOBBS, NEW MEXICO

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 _{sp}	Rate of Flow Q, Mscf
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	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.59	543	1.46	.933	34.73	56 @ 60	.641	X X X X X X X X	670	372
2	.59	518	1.39	.923				X X X X X		
3	.60	535	1.44	.930						
4	.61	535	1.44	.929						
5.										

* $P_c = 4436.9$ $P_c^2 = 19686.1$

NO.	B.H.P.	P _w	P _w ²	P _c ² - P _w ²
1	4663.2	3494.7	12212.9	7473.2
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
** 5	5779.2			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.318$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.318$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2183$

Absolute Open Flow	2,183	Mscf @ 15.025	Angle of Slope	45°	Slope, n	1.000
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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	Calculated By	Checked By
<i>John W. Ramsey</i>	Petr. Dev. Corp.	Bob McMurray	<i>Charles J. Anderson</i>

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