

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

Form C-122
 Revised 9-1-79

RECEIVED

Type of Test: ☐ Initial ☐ Annual ☒ Special				Test Date: 7/17-18/80		JUL 20 1980	
Company: PETROLEUM DEVELOPMENT CORP.				Location: El Paso Natural Gas Co.		O. C. D.	
Pool: <u>Undesignated</u>				Formation: Morrow		Unit: ARTESIA, OFFICE	
Completion Date: 3-4-80		Total Length: 9300		Plug back To: 9149		Elevation: 4164 KB	
Casing Size: 4 1/2		ID: 11.6		Set At: 9216		Perforations: From 9038 To 9088	
Tubing Size: 2 3/8		ID: 4.7		Set At: 8885		Perforations: From Open To end	
Type Well - Single - Prodenhead - G.G. or G.O. Multiple				Pecker Set At: 8885		County: Eddy	
Producing Thru: Tbg.		Reservoir Temp. °F: 120 @ 8962		Mean Annual Temp. °F: 60		Baro. Press. - P _a : 13.2	
L		H		Gg: .617		Prover:	
% CO ₂		% N ₂		% H ₂ S		Meter Run: 4"	
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.	4	x	.750	530	22.09	92	1731.2		Pkr.		24 hr.
2.							545.2		"		24 hr.
3.											
4.											
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, Mhd
1.	2.661	109.54	543.2	.9706	1.273	1.042	375
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry gas	Met/bbl.
1.	.81	552	1.51	.921	A.P.I. Gravity of Liquid Hydrocarbons		
2.					Specific Gravity Separator Gas	.617	X X X X X X X X
3.					Specific Gravity Flowing Fluid	X X X X X	
4.					Critical Pressure	671	P.S.I.A.
5.					Critical Temperature	362	R

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.	1731.2						
2.							
3.							
4.							
5.							

NO.	P _c	P _c ²	P _w	P _w ²	P _c ² - P _w ²	ADP = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1.						
2.						
3.						
4.						
5.						

Absolute Open Flow: _____ Mhd @ 15.025		Angle of Slope @: _____		Slope, n: _____	
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Remarks: 24 hour flow rate requested by NMOCC, Eddy County, New Mexico

Approved By Commission:	Conducted By: Bill G. Rea	Calculated By: Bill G. Rea	Checked By: Joe B. Murray
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