

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

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 5-26-78	
Company Dietrich Exploration Co.				Connection		
Pool WAW P.C.				Formation Picture Cliff		Unit
Completion Date 5-23-78		Total Depth 1500		Plug Back TD 1473		Elevation 6137 GR
Farm or Lease Name Federal 27		Well No. 6				
Csg. Size 2 7/8	Wt. 6.5	d 2.441	Set At 1490	Perforations: From 1390 To 1400		Unit Sec. Twp. Rge. N 27 27N 13W
Thg. Size NA	Wt.	d	Set At	Perforations: From To		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NA		County San Juan
Producing Thru Casing		Reservoir Temp. °F 82 @ 1478		Mean Annual Temp. °F		State New Mexico
L	H	Gg .68	% CO ₂	% N ₂	% H ₂ S	Prover Meter Run Taps

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							NA		260		
1.	2 x 6 x .75			60		52			60	52	3 hrs.
2.											
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, Mcfd
1	11		72	1.008	1.213	1.009	977
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1.	.107	512	1.365	.982	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid _____ XXXXXX	
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.	
5.					Critical Temperature _____ R _____ R	

P _c 272	P _c ² 73984		
NO.	P _t ²	P _w	P _w ²
1		72	5184
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.075$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1039$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.064$

Absolute Open Flow	1039	Mcf/d @ 15.025	Angle of Slope °	Slope .85
Remarks:				

Approved By Commission:	Conducted By: C. D. Moore	Calculated By: W. T. Jones	Checked By:
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