

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 5-25-78			
Company Dietrich Exploration Co.				Connection					
Pool WAW PC				Formation Picture Cliff				Unit	
Completion Date 5-23-78		Total Depth 1400		Plug Back TD 1377		Elevation 6104 GR		Farm or Lease Name Federal 34	
Csg. Size 2 7/8	Wt. 6.7	d 2.441	Set At 1394	Perforations: From 1316 1326 To 1319 1334			Well No. 1		
Thq. Size NA	Wt.	d	Set At	Perforations: From To			Unit A	Sec. Twp. Rge. 34 27N 13W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Completion				Packer Set At NA		County San Juan			
Producing Thru csg.		Reservoir Temp. °F 820 @ 1400		Mean Annual Temp. °F		Baro. Press. - P _a 12.2		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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI							NA		209	
1.	2	X 6	X .75	72		40			72	40
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		84	1.020	1.213	1.020	1166
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1.	.13	500	1.33	.961	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ XXXXXXXXXX
3.					Specific Gravity Flowing Fluid _____ XXXXX
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _c 221	P _c ² 48841		
NO.	P _t ²	P _w	P _w ²
1		84	7056
2			
3			
4			
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.17$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.143$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1332$

Absolute Open Flow	1332	Mcfd @ 15.025	Angle of Slope θ	Slope, n .85
Remarks:				

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