

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

Form C-122
Revised 9-1-65

RECEIVED

C/SF
C-122

Type Test ☒ Initial ☐ Annual		Test Date 4-6-82		APR 14 1982	
Company <i>Viking Petr. Inc.</i> JACK GRYNBERG & ASSOCIATES		Connection AIR NEW WELL		O. C. D. ARTESIA, OFFICE	
Pool <i>Pecos Slope abo</i> UNDESIGNATED		Formation ABO		Unit N	
Completion Date 3-31-82		Total Depth 4130	Plug Back TD 4109	Elevation 4164	Form or Lease Name GRYNBERG STATE
Well Size 4.500	Wt. 10.5	d 4.052	Set At 4120	Perforations: From 3773 To 3953	Well No. 3- 3
Fig. Size 2.375	Wt. 4.7	d 1.995	Set At 3701	Perforations: From OPEN To ENDED	Unit Sec. Twp. Hq. N 32 5S 24E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	County CHAVES
Producing Thru TUBING		Reservoir Temp. °F 112° 3863	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	State NEW MEXICO
L 3863	H 3863	G _g .7096	% CO ₂ 5.36	% N ₂ 9.98	% H ₂ S 2.00
FLOW DATA		TUBING DATA		DATA	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1.	2.00	X	.09375	855	.00
2.	2.00	X	.125	785	.00
3.	2.00	X	.1875	610	.00
4.	2.00	X	.21875	420	.00
5.					
RATE OF FLOW CALCULATIONS					
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g
1	0.1410	.00	868.2	1.001	1.187
2	0.2648	.00	798.2	1.006	1.075
3	0.6082	.00	623.2	1.010	1.061
4	0.8393	.00	433.2	1.012	1.041
5					
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/Lbl.
1	1.29	519	1.45	.860	
2	1.19	514	1.44	.866	
3	.93	510	1.42	.889	
4	.64	508	1.42	.922	
5					
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
Specific Gravity Separator Gas _____					
Specific Gravity Flowing Fluid _____					
Critical Pressure 672 P.S.I.A.					
Critical Temperature 358 R					
$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.8349$ $(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.5804$					
NO.	P _r	P _w	P _w ²	P _c ² - P _w ²	
1		864.4	754.1	107.4	
2		798.9	638.2	223.3	
3		626.1	392.0	469.5	
4		437.0	191.0	670.5	
5					
$AOIF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 761.7$					
Absolute Open Flow 761.7 Mcl @ 15.025					
Angle of Slope 53.0					
Slope, n .754					
Remarks: BOTTOM HOLE PRESSURES CALCULATED ON FORM C122D					
Approved By Commission:		Conducted By: RICHARD TOWNLEY		Calculated By: BENNETT-CATHEY	
Checked By:					