

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

Form C-122
RECEIVED

FEB 24 1982

C/SF
C-122

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 1-29-82		1980 C.N.C. D.							
Company JACK GRYNBURG & Assoc.		Connection AIR NEW WELL		ARTESIA, OFFICE 1980 FEL							
Pool Pecos slope H50 UNDESIGNATED		Formation ABO		Unit G							
Completion Date 1-29-82		Total Depth 4177 4108	Plug Back TD 4108	Elevation 4111 KB	Farm or Lease Name 29 GRYNBURG, FEDERAL						
Csg. Size 4.5	Wt. 10.5	d 4.052	Set At 4177 4108	Perforations: From 3615 To 3823	Well No. 1-29						
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 3565	Perforations: From OPEN To ENDED	Unit Sec. Twp. Rge. G 29 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 94 @ 3565	Mean Annual Temp. °F 60°	Baro. Press. - P _a 13.2	State NEW MEXICO						
L 3719	H 3719	G _g .6848	% CO ₂ 1.550	% N ₂ 9.995	% H ₂ S 2.00						
FLOW DATA			TUBING DATA								
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	B.H.P. PSIA	Temp. °F	Duration of Flow
SI							800	52	874		72 HRS. +
1.	2.00	X	.250	450	0	50	762	52	847		1
2.	2.00	X	.750	105	0	27	695	43	792		1
3.	2.00	X	.750	121	0	28	648	40	750		1
4.	2.00	X	.750	140	0	34	601	38	708		1
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	Super Compress. Factor, F _{pv}	Rate of Flow O, Mcfd				
1	1.1150	.00	463.2	1.0098	1.2065	1.0431	656				
2	9.6940	.00	118.2	1.0333	1.0127	1.0431	1447				
3	9.6940	.00	134.2	1.0323	1.0143	1.0431	1643				
4	9.6940	.00	153.2	1.0260	1.0159	1.0431	1867				
5											
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1	.70	510	1.44	.919	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2	.18	487	1.38	.975	Specific Gravity Separator Gas .6870 X X X X X X X X						
3	.20	488	1.38	.972	Specific Gravity Flowing Fluid X X X X X .6870						
4	.23	494	1.39	.969	Critical Pressure 666 P.S.I.A. P.S.I.A.						
5					Critical Temperature 354 R R						
P _c 887.2 P _c ² 787.1					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.9480$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.9324$						
NO.	P _c ²	P _w	P _w ²	P _c ² - P _w ²	ACF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3,607.2$						
1		860.2	739.9	47.0							
2		805.2	648.3	139.0							
3		763.2	582.5	205.0							
4		721.2	520.1	267.0							
5											
Absolute Open Flow 3,607.2 Mcfd @ 15.025					Angle of Slope 58.6					Slope, n .6093	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.											
Approved By Commission:			Conducted By: RICHARD TOWNLEY			Calculated By: BENNETT-CATHEY			Checked By:		