

C/SF C-122

APR 5 1982

Type Test ☒ Initial 4 POINT ☐ Annual ☐ Special		Test Date 3-25-82		APR 5 1982	
Company JACK GRYNBURG & ASSOCIATES		Connection TO AIR NEW WELL		O. C. D. ARTESIA, OFFICE	
Well UNDESIGNATED		Formation ABO		Unit I	
Completion Date 3-21-82		Total Length 4,111		Plug Back TD 4,061	
Elevation 4040KB		Date of Lease Date HOBBS CANYON FED.		Well No. 1	
P. Size 4.500		WT. 10.50		d 4.052	
Set At 4,061		Performances: From 3,587 To 3,840		Unit Sec. Twp. Rge. I 12 6S 24E	
P. Size 2.375		WT. 4.70		d 1.995	
Set At 3,530		Performances: From OPEN To ENDED		County CHAVES	
Type well - Single - Brodenhead - G.G. or G.O. Multiple SINGLE		Packer Set At NONE		State NEW MEXICO	
Producing Thru TUBING		Reservoir Temp. °F 94° @ 3,714		Mean Annual Temp. °F 60°	
Boro. Press. - P _g 13.2		Prover 2.00		Meter Run FLANGE	
L 3,714		H 3,714		G _g 0.6823	
% CO ₂ 4.016		% N ₂ 7.03		% H ₂ S	
FLOW DATA		TUBING DATA		BHP DATA	
NO	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w
SI					
1	2.00	.1875	742	0	59°
2	2.00	.250	500	0	55°
3	2.00	.3125	360	0	52°
4	2.00	.3125	402	0	56°
5					
RATE OF FLOW CALCULATIONS					
NO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g
1	.6237	0	755.2	1.0010	1.2109
2	1.1150	0	513.2	1.0048	1.2109
3	1.7140	0	373.2	1.0078	1.2109
4	1.7140	0	415.2	1.0039	1.2109
5					
NO	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio Mcl/lbl.
1	1.12	519	1.46	.880	A.P.I. Gravity of Liquid Hydrocarbons Dep.
2	.76	515	1.44	.912	Specific Gravity Separator Gas .6820
3	.55	512	1.44	.935	Specific Gravity Flowing Fluid .6820
4	.62	516	1.45	.929	Critical Pressure 675 P.S.I.A.
5					Critical Temperature 357 °R
$P_c = 968.2$ $P_w = 937.4$					
NO	P _r	P _w	P _c	P _c - P _w	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.8344$
1		896.2	803.2	134.0	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3544$ $AGF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1216.2$
2		819.2	671.1	266.0	
3		739.2	546.4	391.0	
4		653.2	426.7	511.0	
5					
Absolute Open Flow 1,216.2 Mcl @ 15.025		Angle of Slope @ .5000		Slope, n 63.4	
Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMARADA PRESSURE ELEMENTS.					
Approved By Consultant:		Conducted By: DON BENNETT		Calculated By: BENNETT-CATHEY.	
				Checked By:	