

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

Form C-122
Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 12/21/73		JAN 2 1974					
Company Franklin, Aston & Fair, Inc.				Connection None							
Pool South Walden <i>Loco West Mirror</i>				Formation Morrow		Unit O.C.C. ARTESIA, OFFICE					
Completion Date 12/21/73		Total Depth 11300 11202		Plug Back TD 11285		Elevation 3633 ft.					
Csg. Size 4 1/2		Wt. 11.6		Set At 11300		Perforations: From 11224 To 11234					
Thq. Size 2 3/8		Wt. 4.7		Set At 11185		Perforations: From To					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11182		Farm or Lease Name McIntyre "A"					
Producing Thru Thq		Reservoir Temp. °F 154 @ 11,000		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2					
L 11,182		H 11,182		G _g .661		% CO ₂ 0.38					
				% N ₂ 0.57		% H ₂ S -					
				Prover 3"		Meter Run Flange					
FLOW DATA				TUBING DATA		CASING 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	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							2920	68°	Choke		72
1.	3	x	2.00	330	11	64	2652	77	16/64		1
2.	3	x	2.00	330	26	50	2328	73	22/64		1
3.	3	x	2.00	555	28	59	2022	72	27/64		1
4.	3	x	2.00	570	51	68	1460	65	38/64		1
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	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd				
1	21.32	51.44	343.2	.9962	1.230	1.036	1663				
2	21.32	94.46	343.2	1.010	1.230	1.041	2604				
3	21.32	126.13	568.2	1.001	1.230	1.064	3523				
4	21.32	172.46	583.2	.9924	1.230	1.061	4762				
5											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 24.7 Mcf/bbl.						
1	0.51	524	1.38	.932	A.P.I. Gravity of Liquid Hydrocarbons 52.0 Deg.						
2	0.51	510	1.34	.923	Specific Gravity Separator Gas .661		XXXXXXXXXX				
3	0.85	519	1.37	.883	Specific Gravity Flowing Fluid XXXXX		.7711				
4	0.87	528	1.39	.888	Critical Pressure 672 * P.S.I.A.		P.S.I.A.				
5					Critical Temperature 380 * R		R				
P _c 2933.2		P _c 8604									
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.4663$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.3792$				
1		2680.6	7186	1418							
2		2387.7	5701	2903							
3		2121.1	4499	4105							
4		1654.2	2736	5868							
5											
Absolute Open Flow 6568 Mcfd @ 15.025					Angle of Slope @ 49° 58'		Slope, n .840				
Remarks: * From Gas Analysis											
Approved By Commission: Conducted By: Calculated By: Checked By:											