

F-12
95F

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS RECEIVED BY

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date APR 15 1987	
Company Mobil Producing Tx & NM		Connection Atmosphere	
Pool Undesignated		Formation Cisco	
Completion Date 1-82		Total Depth 12,088	Plug Back TD 10,250
Elevation 3241		Farm or Lease Name Federal "LL"	
Csq. Size 7"	Wt. 26#	Set At 12,088	Perforations: From 9954 To 10,023
Thq. Size 2 3/8	Wt. 4.7#	Set At 9,868	Perforations: From open To end
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Dual		Packer Set At 9868	County Eddy
Producing Thru Tubing	Reservoir Temp. °F 153° 9868	Mean Annual Temp. °F 60	Baro. Press. - P _a 13.2
State New Mexico			
L 9868	H 9868	G _g .6707	% CO ₂ .195
% N ₂ .653		% H ₂ S 0	Prover Meter Run 4"
Taps flg			
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	4 x .750		430
2.	4 x .750		470
3.	4 x .750		450
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	1880		
	1120		
	1010		
	905		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	Pkr		
	Pkr		
	Pkr		
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	2.661	89.32	443.2
2	2.661	142.46	483.2
3	2.661	186.39	463.2
4			
5			
NO.	R _t	Temp. °R	T _t
1	.66	552	1.45
2	.72	554	1.45
3	.69	554	1.45
4			
5			
Z			
Gas Liquid Hydrocarbon Ratio 101.0 Mcf/tbl.			
A.P.I. Gravity of Liquid Hydrocarbons 58 ° 60° Deg.			
Specific Gravity Separator Gas .6707			
Specific Gravity Flowing Fluid .744			
Critical Pressure 669 P.S.I.A. 667 P.S.I.A.			
Critical Temperature 382 R 405 R			
P _c 1893.2 P _c ² 3584.2			
NO.	P _t ²	P _w	P _w ²
1	1133.2		1286.7
2	1023.2		1053.7
3	918.2		855.0
4			
5			
(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.313$			
(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.313$			
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .802$			
Absolute Open Flow 802 Mcfd @ 15.025			
Angle of Slope θ 45			
Slope, n 1.000			
Remarks:			
Approved By Division			
Conducted By: B & D Well Testers			
Calculated By: Bob Murphy			
Checked By:			

Mobil Producing Texas & NM
Federal "LL" #1

