

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

C/SF
JUN 28 1994

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 5-26-94								
Company PRIMERO OPERATING		Connection FLARE								
Pool ATOKA		Formation ATOKA								
Completion Date 5-16-94		Total Depth 8430								
Plug Back TD 8292		Elevation 3463 G.L.								
Csg. Size 5.5		Well No. FAJITA FED COM								
Wt. 15.5		Perforations: From 8212 To 8247								
d 4.950		Set At 8430								
Thg. Size 2.875		Perforations: From - To -								
Wt. 6.5		Set At 8076								
d 2.441		From - To -								
Type Well - Single - Bordenhead - G.C. or G.O. Multiple SINGLE(gas)		Packer Set At 8076								
Producing Thru TBG. (gas)		Date. Press. - P _g 13.2								
Reservoir Temp. °F 143		Mean Annual Temp. °F 60								
L 8230		H 8230								
Cg 0.792		% CO ₂ 9.315								
% N ₂ 0.601		% H ₂ S 0.00								
Prover 0.00		Meter Run 3.0								
Taps Flg.		State NEW MEXICO								
FLOW DATA										
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	BHP DATA	Duration of Flow
1.	3.0 x 1.0		200	14.5	40	1778	60	2991	143	72.0
2.	3.0 x 1.0		200	22	40	1170	60	2371	143	1.0
3.	3.0 x 1.0		200	32	40	1070	60	2036	143	1.0
4.	3.0 x 1.0		200	33.5	40	780	60	1688	143	1.0
5.						750	60	1556	143	1.0
RATE OF FLOW CALCULATIONS										
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow O, Mcd			
1.	4.789	55.6	213.2	1.020	1.124	1.029	314			
2.	4.789	68.5	213.2	1.020	1.124	1.029	387			
3.	4.789	82.6	213.2	1.020	1.124	1.029	467			
4.	4.789	84.5	213.2	1.020	1.124	1.029	477			
5.										
NO.	P ₁	Temp. °R	T ₁	Z	Gas Liquid Hydrocarbon Ratio _____ Mcl/lbl.					
1.	0.30	500	1.24	0.944	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.					
2.	0.30	500	1.24	0.944	Specific Gravity Separator Gas _____					
3.	0.30	500	1.24	0.944	Specific Gravity Flowing Fluid _____					
4.	0.30	500	1.24	0.944	Critical Pressure _____ P.S.I.A.					
5.					Critical Temperature _____ °R					
P ₁ 3004.2 P ₂ 9025 x 10 ³										
NO.	P ₁	P ₂	P ₁ ²	P ₂ ² - P ₁ ²	(1) $\frac{P_2^2}{P_2^2 - P_1^2} = 2.701$			(2) $\left[\frac{P_2^2}{P_2^2 - P_1^2} \right]^n = 1.883$		
1.		2384.2	5684	3341						
2.		2049.2	4199	4826						
3.		1701.2	2894	6131						
4.		1569.2	2462	6563						
5.										
Absolute Open Flow _____ 590 _____ Mcd @ 15.025								Angle of Slope _____		Slope, n _____ 0.637
Remarks: CHOKE SIZES - FIRST RATE = 9/64, SECOND RATE = 13/64, THIRD = 14.5/64 FORTH = 17/64										
Approved By Division			Conducted By: KELTIC SERVICES			Calculated By: JIM SMITH			Checked By:	