

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5-22-85							
Company ARCO Oil & Gas Co., Div. of Atlantic Richfield Company				Connection None							
Pool Basin Dakota				Formation Dakota		Unit					
Completion Date 5-15-85		Total Depth 6700		Plug Back TD 6490		Elevation 6709					
Farm or Lease Name Navajo Allotted Com											
Csq. Size 5.500	Wt. 17#	d 4.892	Set At 6700	Perforations: From 6410 To 6446		Well No. 1E					
Trq. Size 2.375	Wt. 4.7	d 1.995	Set At 6402	Perforations: From To		Unit Sec. Twp. Rge. I 24 25N 10W					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas				Packer Set At None		County San Juan					
Producing Thru Tubing		Reservoir Temp. *F #		Mean Annual Temp. *F		Baro. Press. - P _a 12					
State New Mexico											
L 6402	H 6402	G _g .750(EST)	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run Taps				
FLOW DATA				TUBING DATA		CASING DATA					
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. *F _m	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	Duration of Flow
SI							1377		1382		SI 7 Days
1.	2"		.750	272		76	465		800		Flow 3Hrs
2.											
3.											
4.											
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	9.453		284	.9850	1.1547	1.036	3163				
2.											
3.											
4.											
5.											
NO.	P _r	Temp. *R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.						
1.	.43	536	1.31	.931	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.						
2.					Specific Gravity Separator Gas _____ X X X X X X X X						
3.					Specific Gravity Flowing Fluid _____ X X X X X						
4.					Critical Pressure 667 _____ P.S.I.A. _____ P.S.I.A.						
5.					Critical Temperature 408 _____ R _____ R						
P _c 1394 P _c ² 1943236											
NO.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3357$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2425$						
1	227529	699	488421	1454815							
2											
3											
4											
5											
Absolute Open Flow 3930 Mcfd @ 15.025					Angle of Slope @ _____						
Remarks: Well Tested Thru 48/64" Choke											
Approved By Division _____ Conducted By: Rex Hitchcock, Jr. Calculated By: Rex Hitchcock, Jr. Checked By: _____											