

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Copy

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	
Completion Date 5-15-85		Total Depth 6700		Plug Back TD 6490	
				Elevation 6709	
Farm or Lease Name Navajo Allotted Com					
Csg. Size 5.500	Wt. 17#	d 4.892	Set At 6700	Perforations: From 6410 To 6446	
Trg. Size 2.375	Wt. 4.7	d 1.995	Set At 6402	Perforations: From To	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single Gas					
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F	
				Baro. Press. - P _a 12	
County San Juan					
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		Duration of Flow
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.	
SI							1377		1382	
1.	2"		.750	272		76	465		800	
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 _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1	.43	536	1.31	.931	A.P.I. Gravity of Liquid Hydrocarbons	—
2.					Specific Gravity Separator Gas	—
3.					Specific Gravity Flowing Fluid	—
4.					Critical Pressure	667
5.					Critical Temperature	408

P _c 1394 P _c ² 1943236					MAY 28 1985 OIL CON. DIV. DIST. 3	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²		
1	227529	699	488421	1454815	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.3357$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2425$ AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3930$	
2						
3						
4						
5						

Absolute Open Flow 3930		Mcf/d @ 15.025	Angle of Slope @	Slope, n .75
Remarks: Well Tested Thru 48/64" Choke				
Approved By Division		Conducted By: Rex Hitchcock, Jr.	Calculated By: Rex Hitchcock, Jr.	Checked By: