

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 4/23/80			
Company ARCO Oil & Gas Company, Div. of Atlantic Richfield Co						Connection None			
Pool Basin Dakota						Formation Dakota		Unit	
Completion Date 4/15/80			Total Depth 6415		Plug Back TD 6377		Elevation 5837 GL		Farm or Lease Name Krause WN Fed.
Chg. Size 4 1/2	Wt. 10.5#	d 4.052	Set At 6421	Perforations: From 6224 To 6345			Well No. 2E		
Thg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 6187	Perforations: From To			Unit P	Sec. 28	Twp. 28N
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 8		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L 6187	H 6187	Gg .700(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.	Temp. °F	
SI							704		704		SI 8 days
1.	2"	X	.750	33		80°	87		380		3 hrs
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, Mhd
1	9.453		45	.9813	1.195	1.000	499
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1.					8.542	43.5 at 60°F	.700 (est)	XXXXXX	668	392
2.										
3.										
4.										
5.										

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	9801	125	15744	496912	1.0317	511
2						
3						
4						
5						

Absolute Open Flow		511	Mhd @ 15.025	Angle of Slope		Slope, n	750
Remarks: Well tested thru 48/64" choke.							
Approved by Commission		Conducted by:		Calculated by:		Checked by:	
		Rex Hitchcock, Jr.		Rex Hitchcock, Jr.			

