

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088
SANTA FE, NEW MEXICO 87501Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 08-11-80			
Company ARCO Oil & Gas Co. Div. of Atlantic Richfield Co.						Connection None			
Pool Basin Dakota						Formation Dakota		Unit	
Completion Date 08-01-80		Total Depth 6471		Plug Back TD 6447		Elevation 5864		Farm or Lease Name Krause WN Fed.	
Csq. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 6471	Perforations: From 6256 To 6374		Well No. 3-E			
Tbg. Size 2-3/8"	Wt. 4.7#	d 1.995	Set At 6238	Perforations: From To		Unit Sec. Twp. Rge. C 33 28N 11W			
Type Well - Single - Brdendhead - G.C. 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 12.0		State New Mexico	
L 6238	H 6238	G _g .800 (EST)	% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run	Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Time 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							794		789		SI 10 Days
1.	2 X .750			17		94°	52		341		Flow 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, Mcfd
1	9.453		29	.9688	1.118	1.000	297
2.							
3.							
4.							
5.							

NO.	R _i	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons	Deg.
2.					Specific Gravity Separator Gas .800 (EST)	XXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXX
4.					Critical Pressure 665	P.S.I.A.
5.					Critical Temperature 424	R

NO.	P _i ²	P _w ²	P _w ²	P _i ² - P _w ²	(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.0101$	(2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.0076$
1	4096	80	6466	643170		
2						
3						
4						
5						

Absolute Open Flow 299 Mcfd @ 15.025				Angle of Slope @		Slope, n .75	
Remarks: Well Tested thru 48/64" Choke Produced 3-3 1/2 BW W/Trace of Oil							
Approved By Division		Conducted By: Rex Hitchcock, Jr.		Calculated By: Rex Hitchcock, Jr.		Checked By:	