

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

Form C-122
Revised 2-1-65

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 5/2/80			
Company ARCO Oil & Gas Co., Div. of Atlantic Richfield Company						Connection None			
Pool Basin Dakota				Formation Dakota				Unit	
Completion Date 4/23/80		Total Depth 6230'		Plug Back TD 6185'		Elevation 5651 GL		Farm or Lease Name Schlosser WN Fed.	
Crg. Size 4 1/2"	Wt. 10.5#	d 4.052	Set At 6229	Perforations: From 6112 To 6156				Well No. 3E	
Tbg. Size 2 3/8"	Wt. 4.7#	d 1.995	Set At 6111	Perforations: From To				Unit Sec. Twp. Rge. 0 27 28N 11W	
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 6111	H 6111	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 Tube 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							689		689		SI 9 days
1.	2"	X	.750	40		95°	100		367		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		52	.9680	1.195	1.000	569
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 11.053 Mcf/bbl.
1.					A.P.I. Gravity of Liquid Hydrocarbons 41.2 at 60° Deg.
2.					Specific Gravity Separator Gas .700 (est) XXXXXXXXXX
3.					Specific Gravity Flowing Fluid XXXXX
4.					Critical Pressure 668 P.S.I.A. P.S.I.A.
5.					Critical Temperature 392 R R

NO.	P _r ²	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.0428$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.0319$
1	12544	142	20186	471215	$AOI = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 587$	
2						
3						
4						
5						

Absolute Open Flow 587 Mcfd @ 15.025		Angle of Slope 75
Remarks: Well tested thru 48/64" choke.		
Approved by Commission	Conducted by: Rex Hitchcock Jr.	Calculated by: Rex Hitchcock, Jr.
Checked by:		