

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		6-25-80	
Company				Connection							
ARCO Oil and Gas				None							
Pool				Formation				Unit			
Basin Dakota				Dakota							
Completion Date		Total Depth		Plug Back TD		Elevation		Farm or Lease Name			
5-28-80		6282		6260		5750 GL		Krause WN Fed.			
Coq. Size	Wt.	d	Set At	Perforations		Well No.					
4 1/2"	10.5#	4.052	6281	From 6151 To 6237		8E					
Thq. Size	Wt.	d	Set At	Perforations		Unit		Sec.	Twp.	Rye.	
2 3/8"	4.7#	1.995	6108	From To		F		29	28N	11W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple						Packer Set At		County			
Single Gas						None		San Jaun			
Producing Thru Tubing		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State			
						12.0		New Mexico			
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps			
6108	6108	.800(est)				2"					
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover 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	
1.	2" x		.750	62		76°	777		774		ST 11 Days
2.							218		474		Flow 3 Hrs
3.											
4.											
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	of Flow					
1	9.453		74	.9850	1.118	1.000					
2.											
3.											
4.											
5.											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 3.671		Mcf/bbl.				
1.					A.P.I. Gravity of Liquid Hydrocarbons 43.0 @ 60°		Deg.				
2.					Specific Gravity Separator Gas .800 (Est)		XXXXXXXXXX				
3.					Specific Gravity Flowing Fluid XXXXX						
4.					Critical Pressure 665		P.S.I.A.		P.S.I.A.		
5.					Critical Temperature 424		R		R		
$P_c = 789$ $P_c^2 = 622521$											
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1238$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0915$				
1	52900	262	68571	553950							
2											
3											
4											
5											
Absolute Open Flow 840 Mcd @ 15.075 Angle of Slope 75 Slope, n 75											
Remarks: Well tested thru 48/64" Choke											
Approved By Division			Conducted By			Calculated By			Checked By		
			Rex Hitchcock, Jr.			Rex Hitchcock, Jr.					