

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2083
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 6-27-80	
Oil & Gas Co., Div. Of Atlantic Richfield Co.		Connection None	
Pool Basin Dakota		Formation Dakota	
Completion Date 6-30-80		Total Depth 6360	Plug Back TD 6337
Elevation 5898 GL		Farm or Lease Name Krause WN Federal	
Csg. Size 4 1/2"	Wt. 10.5#	Set At 4.052	6359
Perforations: From 6177 To 6287		Well No. 1 E	
Tub. Size 2 3/8"	Wt. 4.7#	Set At 1.995	5961
Perforations: From To		Unit Sec. Twp. Rge. C 32 28N 11W	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Packer Set At	
Producing Thru Tubing		Reservoir Temp. °F P	Mean Annual Temp. °F 12.0
State New Mexico		County San Jaun	
L 5961	H 5961	Gg .800 (est)	% CO ₂ % N ₂ % H ₂ S
Prover 2"		Meter Run Taps	
FLOW DATA			
NO.	Prover Line Size	X	Orifice Size
SI			
1.	2"	X	.750"
2.			
3.			
4.			
5.			
TUBING DATA			
	Press. p.s.i.g.	Temp. °F	
	1006		
	395		
CASING DATA			
	Press. p.s.i.g.	Temp. °F	
	1003		
	630		
Duration of Flow SI 24 Days Flow 3 Hrs			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
1	9.453		194
2.			
3.			
4.			
5.			
NO.	R _t	Temp. °R	T _r
1	.29	535	1.26
2.			
3.			
4.			
5.			
Gas Liquid Hydrocarbon Ratio 10.380 Mcf/bbl.			
A.P.I. Gravity of Liquid Hydrocarbons 52.2 @ 60° Deg.			
Specific Gravity Separator Gas .800 (est) X X X X X X X X			
Specific Gravity Flowing Fluid X X X X X			
Critical Pressure 665 P.S.I.A. P.S.I.A.			
Critical Temperature 424 R R			
P _c 1018 P _c ² 1036324			
NO.	P _i ²	P _w	P _w ²
1	165649	527	277274
2			
3			
4			
5			
(1) $\frac{P_c^2}{P_i^2 - P_w^2} = 1.3653$ (2) $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 1.2630$			
AOF = Q $\left[\frac{P_i^2}{P_i^2 - P_w^2} \right]^n = 2622$			
Absolute Open Flow 2622 Mld @ 15.025 Angle of Slope 0 Slope, n .75			
Remarks: Well Tested Thru 48/64" Choke			
Approved By Division Conducted By: Ben Hirsch, Jr. Calculated By: Ben Hirsch, Jr. Checked By:			