

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 1-16-85		RECEIVED JAN 17 1985 OIL CONSERVATION DIV.		
Company ARCO Oil & Gas Co., Div. of Atlantic Richfield Co.					Connection None				
Pool Basin Dakota					Formation Dakota		Unit OIL		
Completion Date 1-9-85		Total Depth 6797		Plug Back TD 6712		Elevation 6198		Farm or Lease Name Schlosser WN Fed.	
Csg. Size 7.000	Wt. 29.0	d 6.184	Set At 6797	Perforations: From 6605 To 6654		Well No. 2R			
Tng. Size 2.375	Wt. 4.7	d 1.995	Set At 6596	Perforations: From To		Unit Sec. Twp. Rqrs. K 3 27N 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 #		Mean Annual Temp. °F		Baro. Press. - P _a 12.0		State New Mexico	
L 6596	H 6596	Cg .680(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							1113		1115		SI 7 Days
1.	2"		.750	124		77	229		579		FLOW 3Hrs
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		136	.9840	1.213	1.014	1556
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.	
1	.20	537	1.39	.972	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.	
2.					Specific Gravity Separator Gas .680(Est) X X X X X X X X	
3.					Specific Gravity Flowing Fluid X X X X X	
4.					Critical Pressure 669 P.S.I.A. P.S.I.A.	
5.					Critical Temperature 385 R R	

P _c 1127 P _c ² 1270129				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1020$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0756$	
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²			
1	58081	343	117579	1152550			
2							
3							
4							
5							

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1674$			
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Absolute Open Flow 1674 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .75	
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Remarks: Well Tested Thru 48/64" Choke			
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Approved By Division	Conducted By: Rex Hitchcock, Jr.	Calculated By: Rex Hitchcock, Jr.	Checked By:
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