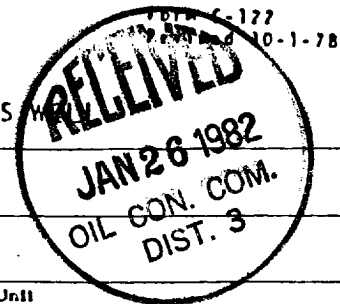


MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS



Type Test ☒ Initial ☐ Annual ☐ Special										Test Date 1-22-82	
Company ARCO Oil & Gas Co. Div. of Atlantic Richfield Company						Connection NONE					
Pool Basin Dakota				Formation Dakota				Unit			
Completion Date 1-4-82		Total Depth 6775		Plug Back TD 6690		Elevation 5809 GL		Farm or Lease Name Maddox WN Federal			
Coq. Size 4 1/2"	Wt. 10.5	d 4.052	Set At 6775	Perforations: From 6527 To 6552		Well No. 4E					
Thq. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 6512	Perforations: From To		Unit D		Sec. 24	Twp. 30N	Rye. 13W	
Type Well - Single - Rodenthead - G.C. or G.O. Multiple Gas-Single						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 6512	H 6512	C _g (Est) 0.680		% CO ₂	% N ₂	% H ₂ S	Prover 2"	Meter Run	Tops		

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							1476		1482		18-Days
1.	2" x 0.750			127		74	225		470		3-Hours
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, Mc/d
1	9.453		139	0.9868	1.213	1.014	1595
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.			
1.	0.21	534	1.39	0.972	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.			
2.					Specific Gravity Separator Gas 0.680 (EST) XXXXXXXXXX			
3.					Specific Gravity Flowing Fluid XXXXXX			
4.					Critical Pressure 669 P.S.I.A. _____ P.S.I.A.			
5.					Critical Temperature 385 _____ R _____ R			

NO.	P _t ²	P _w ²	P _w ²	P _t ² - P _w ²	$(1) \frac{P_c^2}{P_t^2 - P_w^2} = 1.0558$ $(2) \left[\frac{P_c^2}{P_t^2 - P_w^2} \right]^n = 1.0416$ $AOF = Q \left[\frac{P_t^2}{P_t^2 - P_w^2} \right]^n = 1661$
1	56169	344	118013	2114023	
2					
3					
4					
5					

Absolute Open Flow	1661	Mcf @ 15.025	Angle of Slope @	Slope, n	0.750
Remarks: Tested Thru 48/64" Choke					

Approved by Division	Conducted by C.R. Thompson, Jr.	Calculated by C.R. Thompson, Jr.	Checked by
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