

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date Mar. 5, 1971	
Company Atlantic Richfield Company			Connection None		
Pool Monument McKee			Formation McKee		Unit
Completion Date Mar. 3, 1971		Total Depth 9650	Plug Back TD 9610	Elevation 3586 DF	Farm or Lease Name Phillips
Csg. Size 5 1/2	Wt. 15 1/2-17	Set At 9650	Perforations: From 9488 To 9508		Well No. A-9
Tbg. Size 2 3/8	Wt. 4.7	Set At 9353	Perforations: From open end To		Unit Sec. Twp. Rge. M 31 19 37
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single			Packer Set At 9353		County Lea
Producing Thru Tbg.		Reservoir Temp. °F 165 @ 9300	Mean Annual Temp. °F 13.2		State New Mexico
L 9353	H 9353	G _a Assumed .654	% CO ₂	% N ₂	% H ₂ S
			Prover X	Meter Run	Taps

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
SI							1527	72			
1.	2	X	1/8	1459			1459	74			1 Hr.
2.	2	X	7/32	1276			1276	75			1 Hr.
3.	2	X	1/4	1230			1230	74			1 Hr.
4.	2	X	5/16	1040			1040	74			1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	.2648		1472.2	.9868	1.237	1.146	545
2	.8393		1289.2	.9859	1.237	1.124	1,483
3	1.087		1243.2	.9968	1.237	1.124	1,854
4	1.672		1053.2	.9868	1.237	1.105	2,375
5							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	Dry	Mcf/bbl.
1.	2.20	534	1.42	.762	A.P.I. Gravity of Liquid Hydrocarbons	---	Deg.
2.	1.92	535	1.43	.792	Specific Gravity Separator Gas	.654	XXXXXXX
3.	1.86	534	1.42	.791	Specific Gravity Flowing Fluid	XXXXX	
4.	1.57	534	1.42	.819	Critical Pressure	670	P.S.I.A.
5.					Critical Temperature	375	R

P _c 1540.2 P _c ² 2372.2	
NO.	P _t ² P _w P _w ² P _c ² - P _w ²
1	2175.9 201.3
2	1726.4 645.8
3	1646.4 725.9
4	1278.9 1093.3
5	

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.170$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 4696.1$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.977$

Absolute Open Flow	4696	Mcf/d @ 15.025	Angle of Slope °	48.5	Slope, n	.880
Remarks:						

Approved By Commission: 	Conducted By: J. B. Murray - ARCO J. B. Murray - EPNG	Calculated By: J. B. Murray	Checked By: E. M. Pringle
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TELETYPE

MAR 1 1971

ONE COPY TO COMM.
HONORARY M.