

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 3-28-83	
Company ARCO Oil & Gas Co, Div of Atlantic Richfield Co.				Connection None	
Pool Undesignated Gallup&Basin Dak.				Formation Gallup & Dakota Co-mingled	
Completion Date 3-21-83		Total Depth 7462		Plug Back TD 7434 7423	
Elevation 6121		Farm or Lease Name Atlantic "C"			
Csq. Size 4 1/2"	Wt. 11.6	d 1.995	Set At 7461	Perforations: 6276 6527 From 7121 To 7394	
Tng. Size 2 3/8"	Wt. 4.7	d 1.995	Set At 7107	Perforations: From To	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple Single - Gas				Packer Set At No	
Producing Thru Tubing				Baro. Press. - P _g 12.0	
Reservoir Temp. °F #				State New Mexico	
L 7107	H 7107	G _g 0.600EST	% 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							1553		1540		7-Days
1.	2"	x	0.750"	167		73	283		846		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, Mcfd
1	9.453		179	0.9877	1.291	1.015	2190
2.							
3.							
4.							
5.							

NO.	P _t	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	0.27	533	1.49	0.971	APR 1 1983		0.600		671	358
2.										
3.										
4.										
5.										

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	87025	447	200223	2249002	1.0890	1.0660
2						
3						
4						
5						

Absolute Open Flow				2335		Mcfd @ 15.025		Angle of Slope @		Slope, n	
Remarks: NOTE: 12,N-80 Blast Jts in Tubing String Set Thru Gallup Perfs.											