

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P O BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 6/29/87	
Company Union Texas Petroleum		Connection Evaluating Pipeline	
Pool Blanco		Formation Mesaverde	
Completion Date 6/22/87	Total Depth 6125	Plug back TD 6082	Elevation 7164 GL
Form or Lease Name McCroden A		Well No. 9	
Cas. Size 4.988	Wt. 10.3	d 6.366	Set At 3982 3763-6125
Perforations: From 5830 To 6054		Well No. 9	
Eng. Size 2.375	Wt. 4.7	d 1.995	Set At 5998
Perforations: From 5967 To 5973		Unit Sec. Twp. Rge. A 9 25N 3W	
Type Well - Single - Bradenhead - C.C. or G.C. Multiple Single - Gas		Packer Set At	
Producing Thru Tubing		Baro. Press. - P _g 12	
County Rio Arriba		State New Mexico	
L 5967	H	Gg 0.685	% CO ₂ % N ₂ % H ₂ S Prover 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	
51	2"		3/4"				983	1174	7 Days
1.							349	57°	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. Compres. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		361	1.0029	0.9359	1.045	4378
2							
3							
4							
5							

NO.	F _g	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2					Specific Gravity Separator Gas _____ X X X X X X X X X
3					Specific Gravity Flowing Fluid _____ X X X X X X X X X
4					Critical Pressure _____ P.S.I.A.
5					Critical Temperature _____ R

NO.	P _c	P _w	P _c ²	P _w ²	P _c ² - P _w ²
1	1186	552	1,406,596	304,704	1,101,892
2					
3					
4					
5					

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.2765$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 5258$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.2009$$

Absolute Open Flow _____ 5258 _____ Mcfd @ 15.025	Angle of Slope @ _____	Slope, n 0.75
Remarks: <u>Light Mist</u>		
Approved By Division	Conducted By: Jeff Davis	Calculated By: John C. Rector
Checked By:		