

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-122
Revised 10-1-78STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 11-5-82	
Company J. Felix Hickman		Connection No gas contract	
Pool Mesaverde		Unit	
Completion Date 10-11-82		Total Depth 8160	Plug Back TD 8117
Elevation Schmitz		Farm or Lease Name	
Well No. 2		Unit Soc. Twp. Rge.	
Casing Size 2 3/8"	Set At 6399	Perforations: From 5865 To 6137	
Tubing Size 2 1/2"	Set At 5993	Perforations: From 5988 To 5993	
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At 6250'	
Producing Thru Casing		Baro. Press. - P _a 12 psia (est.)	
Reservoir Temp. °F 650		Mean Annual Temp. °F	
County Rio Arriba		State New Mexico	
Prover		Meter Run	
Taps			

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	2 inch	.750				1210	60°	1300	60°	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	12.3650		321	1.000	.9608	1.032	3936
2							
3							
4							
5							

NO.	P _r	Temp. °R	T _r	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										
2										
3										
4										
5										

NO.	P _c	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	172				1.45377	1.32394
2	733	537289	1184055			
3						
4						
5						

Absolute Open Flow		5211 Mcfd @ 15.025		Angle of Slope		Slope, n .75	
Remarks: Dry gas with fine mist of condensate							
Approved By Division		Conducted By: Joe Elledge		Calculated By: Joe Elledge		Checked By: J. Felix Hickman	