

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 12-26-80			
Company Jerome P. McHugh				Connection					
Pool Undesignated				Formation Nacienmento				Unit	
Completion Date 12-12-80		Total Depth 3593'		Plug Back TD 3549'		Elevation 7368'		Farm or Lease Name Big Hit	
Coq. Size 4 1/2"	Wt. 10.5#	d	Set At 3590'	Perforations: From 2390' To 2402'		Well No. #12			
Trg. Size 1 1/4"	Wt. 2.4#	d	Set At 2427'	Perforations: From To		Unit Sec. Twp. Rge. C 12 24N 2W			
Type Well - Single - Bradenhead - C.G. or C.O. Multiple Single						Packer Set At		County Rio Arriba	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State New Mexico	
L	H	Gg	% 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	Press. p.s.i.g.		Temp. °F
SI							487	52°	505	52°	7 days
1.											
2.											
3.	1/2" positive choke						181	52°	397	52°	3 hours
4.											
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	5.4315		193	1.008	.9837	1.018	1058
2.							
3.							
4.							
5.							

NO.	P _t	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.										

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P _c 517	P _c ² 267,289	(1) $\frac{P_c^2}{P_r^2 - P_w^2} = 2.6727$	(2) $\left[\frac{P_c^2}{P_r^2 - P_w^2} \right]^n = 2.3063$		
NO.	P _t ²	P _w	P _w ²	P _r ² - P _w ²	$AOF = Q \left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 2440$
1		409	167,281	100,008	
2.					
3.					
4.					
5.					

Absolute Open Flow	2440	Mcfd @ 15.025	Angle of Slope	Slope, n .85
Remarks:				

Approved By Division	Conducted By: Anderson	Calculated By: Anderson	Checked By:
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