

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: 12/10/86	
Company: Union Texas Petroleum		Connection: Southern Union Gathering Co.	
Pool: Blanco		Formation: Mesaverde	
Completion Date: 11/11/86	Total Depth: 5520	Plug Back TD: 5475	Elevation: 6013 GL
Farm or Lease Name: Payne		Well No.: 1R	
Csg. Size: 4.588	Wt.: 23.0	d: 4.052	Set At: 3096
Perforations: From 4377 To 5229		Well No.: 1R	
Inq. Size: 2.375	Wt.: 4.7	d: 1.995	Set At: 5198
Perforations: From 5166 To 5172		Unit: M 20 32N 10W	
Type Well - Single - Fractured - G.G. or G.O. Multiple		Packer Set At:	
Single-Gas		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 0	Mean Annual Temp. °F:	Baro. Press. - P _g : 12
State: New Mexico		Prover: Meter Run: Taps:	
L: 5166	H: 0.690	% 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
51	2"		3/4"				605		605		7 Days
1.							264	63°	565	63°	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 Ft.	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mhd
1	12.3650		276	0.9971	0.9325	1.032	3275
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 _r ²	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n =$
1	577	332.929	47.755	7.9716	4.7441
2					
3					
4					
5					

Absolute Open Flow: 15537	Mhd @ 15.025	Angle of Slope @	Slope, n: 0.75
Remarks:			
Approved By Division	Conducted By: Dale Smith	Calculated By: John C. Rector	Checked By: