

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: 11/4/86	
Company: Union Texas Petroleum		Connection: Union Texas Petroleum	
Pool: Basin		Formation: Dakota	
Completion Date: 10/14/86	Total Depth: 7532	Plug Back TD: 7482	Elevation: 6587
Farm or Lease Name: State Com		Well No.: 1A	
Cas. Size: 7.625	Wt.: 29.7	d: 6.875	Set At: 3520
Perforations: From 7292 To 7426			
Ing. Size: 5.500	Wt.: 25.54	d: 4.580	Set At: 3039-7532
Perforations: From 7401 To 7407			
1.660	2.4	1.380	7432
Type Well - Single - Bradenhead - G.C. or G.O. Multiple		Packer Set At: 5610	
Gas - Gas Multiple		County: San Juan	
Producing Thru: Tubing	Reservoir Temp. °F: 8	Mean Annual Temp. °F: 12	Baro. Press. - P _a : 12
State: New Mexico			
L: 0.700	H: 0.700	% CO ₂ : 0.700	% N ₂ : 0.700
% H ₂ S: 0.700	Prover: 0.700	Meter Run: 0.700	Taps: 0.700

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.
5	2"		3/4"				1040			
1.							95	53°		
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, Mcfd
1	12.3650		107	1.0068	0.9258	1.013	1249
2							
3							
4							
5							

NO.	P _t	Temp. °R	T _f	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 _c ²	F _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	1052	1,106,704	107	11,449	1,095,255	1.01105	1.0078
2							
3							
4							
5							

Absolute Open Flow: 1259 Mcfd @ 15.025		Angle of Slope: 0.75	
Remarks:			
Approved By Division:		Conducted By: Connie Clevenger	
Calculated By: John Rector		Checked By:	