

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 10/16/1986	
Company Union Texas Petroleum			Connection Union Texas Petroleum Corporation		
Pool Blanco			Formation Mesaverde		Unit
Completion Date 9/24/86		Total Depth 6065		Plug Back TD 6050	Elevation 5717
Farm or Lease Name Zachry					
Csg. Size 7.00	Wt. 23.00	d 6.366	Set At 5350	Perforations: From 3850 To 4610	
Well No. 51					
Log. Size 4.50	Wt. 11.6	d 4.000	Set At 5148-6065	Perforations: From 4400 To 4406	
Unit M		Sec. 35	Twp. 29N	Rge. 10W	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple Single - Gas			Packer Set At		County San Juan
Producing Thru Tubing		Reservoir Temp. °F 8	Mean Annual Temp. °F	Baro. Press. - P _g 12	State New Mexico
L 4400	H	G _g 0.660	% 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	2"		3/4"				1167		1167		7 days
1.							107	68°	459	68°	3 hrs.
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		119	0.9924	0.9535	1.012	1,409
2.							
3.							
4.							
5.							

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

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		471	221,841	1,168,200
2.				
3.				
4.				
5.				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.1899$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1605$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1392$

Absolute Open Flow	1605	Mcf/d @ 15.025	Angle of Slope @	Slope, n	0.75
--------------------	------	----------------	------------------	----------	------

Remarks:

Approved By Division	Conducted By: Bernie Brown	Calculated By: John C. Rector	Checked By:
----------------------	-------------------------------	----------------------------------	-------------