

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENTP O BOX 2088
SANTA FE, NEW MEXICO 87501

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11/9/87	
Company Union Texas Petroleum Corporation				Connection Sunterra Gas Gathering Company	
Pool Blanco				Formation Mesaverde	
Completion Date 11/2/87		Total Depth 5410		Plug back TD 5393	
				Elevation 6085 GL	
Form or Lease Name Teel					
Csg. Size 7.000/4.500	Wt. 20.0	6.456	Set At 4765	Perforations: From 4832 To 5362	
	9.5	4.090	2800-5410		
Tng. Size 2.375	Wt. 4.7	1.995	Set At 5103	Perforations: From 5173 To 5176	
Type Well - Single - Airsenhead - G.G. or G.O. Multiple Single - Gas				Packer Set At	
Producing Thru Tubing				Baro. Press. - P _g 12	
Reservoir Temp. °F 8				Mean Annual Temp. °F	
L				H	
Cg 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"				511		514		7 days
1.							102	62°	323	62°	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 Fg	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1	12.3650		114	0.9981	0.9325	1.007	1321
2.							
3.							
4.							
5.							

NO.	P ₁	Temp. °R	T _g	Z	Gas Liquid Hydrocarbon Ratio	NOV 1 7 1987	Mcft/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons		Dec.
2.					Specific Gravity Separator Gas	OIL CON. DIV	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	DISX3	
4.					Critical Pressure	P.S.I.A.	P.S.I.A.
5.					Critical Temperature	R	R

P _c 526	P _c ² 276,676		
NO. 1	P ₁ ²	P _w	P _w ² P _c ² - P _w ²
1		335	112,225 164,451
2			
3			
4			
5			

$$(1) \frac{P_c^2}{P_w^2 - P_c^2} = 1.6824$$

$$AOF = Q \left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 1951$$

$$(2) \left[\frac{P_c^2}{P_w^2 - P_c^2} \right]^n = 1.4772$$

Absolute Open Flow	1951	Mcfd @ 15.025	Angle of Slope °	Slope, n	0.75
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Remarks: light mist of oil and water.

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