

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 5/13/88			
Company Union Texas Petroleum				Connection Sunterra Gas Gathering Co.					
Pool Basin				Formation Dakota				Unit	
Completion Date 11/7/87		Total Depth 8425		Plug Back TD 8384		Elevation 6898 GL		Farm or Lease Name Payne	
Case Size 4.500	Wt. 23.0	d 6.366	Set At 4010	Perforations: From 8243 To 8380		Well No. 11			
4.500	10.5	4.052	3807-8421						
Tbg. Size 2.375	Wt. 4.7	d 1.995	Set At 8356	Perforations: From 8325 To 8328		Unit A		Sec. 27	Twp. 32N
						Rge. 10W			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single-Gas						Packer Set At		County San Juan	
Producing Thru Tubing		Reservoir Temp. °F #		Mean Annual Temp. °F		Baro. Press. - P _g 12		State New Mexico	
L	H	G _g	% CO ₂	% N ₂	% H ₂ S	Prover		Meter Run	Taps
		0.695							

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"				1943		1945		7 Days
1.							50	68°	280	68°	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, Fpv	Rate of Flow Q, Mcfd
1	12.3650		62	0.9924	0.9292	1.011	715
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 Hydrocarbon	_____ Deg.
2					Specific Gravity Separator Gas	XXXXXXXXXX
3					Specific Gravity Flowing Fluid	XXXXXXXXXX
4					Critical Pressure _____ P.S.I.A.	_____ P.S.I.A.
5					Critical Temperature _____ R	_____ R

P _c 1957	P _c ² 3,829,849	(1) $\frac{P_c^2}{P_w^2 - P_c^2} = 1.0228$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0170$
NO	P _t ²	P _w	P _w ²
1		292	85,264
2			
3			
4			
5			

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 727$$

Absolute Open Flow	727	Mcf/d @ 15.025	Angle of Slope @	Slope, n	0.75
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Remarks: Blowing heavy mist.

Approved By Division	Conducted By: Cliff Gates	Calculated By: John C. Rector	Checked By:
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