

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

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 5/01/89		MAY 05 1989 OIL CON. DIV. DIST. 3			
Company Union Texas Petroleum Corp.				Connection Sunterra Gas Gathering Company					
Pool Basin				Formation Dakota		Unit			
Completion Date 4/18/89		Total Depth 7209		Plug Back TD 7185		Elevation 5681 GR.		Farm or Lease Name McCord	
Csc. Size 4.500	Wt. 11.6	d 4.000	Set At 7223	Perforations: From 6960 To 7089		Well No. 2E			
Tng. Size 2.375	Wt. 4.7	d 1.995	Set At 7088	Perforations: From OPEN ENDED		Unit C	Sec. 34	Twp. 30N	Rye. 13W
Type Well - Single - Bradenhead - G.C. 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 _a 12		State New Mexico	
L	H	G _g .710	% 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				1732		1735		13 Days
1.							188	82°	557	82°	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 F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.3650		200	0.9795	0.9193	1.022	2276
2.							
3.							
4.							
5.							

NO.	P _r	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 _____ X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

NO.	P _r	P _w	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	1747	569	323,761	2,728,248	1.1186	1.0877
2.						
3.						
4.						
5.						

Absolute Open Flow <u>2476</u> Mcfd @ 15.025 Angle of Slope ϕ _____ Slope, n <u>0.75</u>			
Remarks: <u>Heavy mist of Oil & Water</u>			
Approved By Division	Conducted By: Cliff Gates	Calculated By: John C. Rector	Checked By: