NEW XICO OIL CONSERVATION COMMISSI

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 2-5-71	
Company: PENNZOIL UNITED, INC.	Connection: NONE			
Pool: UNDESIGNATED	Formation: SAN ANDRES		Unit	
Completion Date: 1-25-71	Total Depth	Plug Back TD: 4,350'	Elevation: 4252	Farm or Lease Name: SUPERIOR STATE
Csg. Size: 4½ Wt.: 9.50	d: 4.090	Set At: 4,350'	Perforations: From 4231 To 4261	Well No.: 1
Tbg. Size: 2 3/8 Wt.: 4.7	d: 1.995	Set At: 4,225'	Perforations: From OPEN To ENDED	Unit: L Sec.: 8 Twp.: 7S Rge.: 35E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE		Packer Set At: 4,220'		County: ROOSEVELT
Producing Thru: TUBING	Reservoir Temp. °F: 108 @ 4,246'	Mean Annual Temp. °F: 60	Baro. Press. - P_a: 13.2	State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
4246	4246	0.7613	6.74	14.13	EXCEEDS MEASUREMENT		2"	FLANGE

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						1117	60			94.25
1.	2.067	1.500	460	60	76	900	64	PACKER		2.75
2.	2.067	1.500	462	42	78	980	64			.75
3.	2.067	1.500	464	25	78	1015	64			.50
4.	2.067	1.500	462	14	78	1055	64			.50
5.			½							

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	12.76	168.5	473.2	.9850	1.146	1.044	2,534
2.	12.76	141.3	475.2	.9831	1.146	1.045	2,123
3.	12.76	109.2	477.2	.9831	1.146	1.045	1,640
4.	12.76	81.6	475.2	.9831	1.146	1.045	1,226
5.							

NO.	P_t	Temp. °R	T_r	Z
1	.70	536	1.43	.917
2.	.71	538	1.43	.916
3.	.71	538	1.43	.916
4.	.71	538	1.43	.916
5.				

Gas Liquid Hydrocarbon Ratio: DRY GAS Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: DRY Deg.
Specific Gravity Separator Gas: .761 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 672.2 P.S.I.A. ____ P.S.I.A.
Critical Temperature: 375.5 R ____ R

P_c ____ P_c^2 ____

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		1074.2	1153.9	510.7
2		1154.2	1332.2	332.4
3		1189.2	1414.2	250.4
4		1229.2	1510.9	153.7
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.26$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.973$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 5,000$

Absolute Open Flow: 5,000 Mcfd @ 15.025 | Angle of Slope θ: 59 | Slope, n: .601

Remarks: EXCESSIVE H_2S CONTENT MAY HAVE AFFECTED THE ACCURACY OF THE RATES.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	A.G.A.	A.G.A.	J.W.W.