W MEXICO OIL CONSERVATION CO SION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

Type Test: ☒ Initial ☐ Annual ☐ Special			Test Date: 2-3-89	
Company: EXXON CORPORATION	Connection: AIR			
Pool: PADDOCK	Formation: GLORITTA PADDOCK			Unit
Completion Date: 1-13-89	Total Depth: 5180	Plug Back TD: 5180	Elevation	Unit. or Lease Name: PADDOCK (SAN ANGELO) unit
Csg. Size: 7.0 / Wt.: 23.0 / d: 6.366 / Set At: 5065		Perforations: From 5026 To 5061		Well No.: 2
Tbg. Size: 2.375 / Wt.: 4.7 / d: 1.995 / Set At: 4955		Perforations: From To		Unit: P / Sec.: 34 / Twp.: 21S / Rge.: 37E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE-GAS		Packer Set At: 4955		County: LEA
Producing Thru: TUBING	Reservoir Temp. °F: 109 @ 5043	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
5043	5043	0.705	1.24	3.63	0.04		4.026	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					1514	58			72
1.	4.026 X 1.250	570	7	60	1440	58			1
2.	4.026 X 1.250	580	15	60	1379	58			1
3.	4.026 X 1.250	600	24.5	60	1322	58			1
4.	4.026 X 1.250	600	57	62	1189	58			1
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	7.47	63.89	583.2	1.000	1.1910	1.0660	606
2	7.47	94.33	593.2	1.000	1.1910	1.0672	896
3	7.47	122.57	613.2	1.000	1.1910	1.0697	1166
4	7.47	186.96	613.2	.9981	1.1910	1.0686	1774
5							

NO.	P_t	Temp. °R	T_r	Z
1	.87	520	1.37	.880
2	.89	520	1.37	.878
3	.92	520	1.37	.874
4	.92	522	1.38	.876
5				

Gas Liquid Hydrocarbon Ratio 29.2 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 47.5 Deg.
Specific Gravity Separator Gas .705 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .799
Critical Pressure 667 P.S.I.A. 662 P.S.I.A.
Critical Temperature 379 R 409 R

P_c 1530.1 P_c^2 2341

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	2112	1457	2123	218
2	1938	1398	1953	388
3	1783	1343	1803	538
4	1445	1221	1490	851
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.7509$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.4487$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 4344$

Absolute Open Flow 4344 Mcfd @ 15.025 Angle of Slope θ 48.5 Slope, n .885

Remarks: CHOKES RATE1 5/64 ~~RATE2 7/64 RATE3 9/64 RATE4 13/64~~

MAR 7 1989

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
ORIGINAL SIGNED BY JERRY SEXTON DISTRICT I SUPERVISOR	STEVE RIPLEY	MATT LEE	