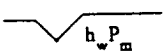


Submit in duplicate to
appropriate district office
See Rule 401 & Rule 1122

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Manzano Oil Corporation						Lease or Unit Name Appleseed Federal Com.								
Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special						Test Date 6-4-96			Well No. 1					
Completion Date			Total Depth			Plug Back TD			Elevation			Unit Ltr. - Sec. - TWP - Rge. 17-20-35		
Csg. Size		Wt.		d		Set At		Perforations: From: 13610 To: 13730				County Lea		
Tbg. Size 2-7/8		Wt.		d		Set At		Perforations: From: To:				Pool		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 13594			Formation Morrow					
Producing Thru Tbg.		Reservoir Temp. °F 184.5@13695		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2			Connection Vented					
L 13695	H 13695	Gg .683		% CO ₂ .56		% N ₂ .53		% H ₂ S		Prover		Meter Run 4"	Taps Flg.	
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	Press. p.s.i.g.	Temp. °F	Duration of Flow	
SI							3225		Pkr				24 Hrs.	
1.	4	X	1.500	510	22.00	69	2500		"				1 Hr.	
2.	4	X	1.500	510	48.00	75	2090		"				1 Hr.	
3.	4	X	1.500	510	70.00	76	1730		"				1 Hr.	
4.	4	X	1.500	510	80.00	78	1467		"				2 Hrs.	
5.														
RATE OF FLOW CALCULATIONS														
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, Fpv.	Rate of Flow Q, Mcfd							
1.	10.84	107.29	523.2	.9915	1.210	1.061	1,480							
2.	10.84	158.47	523.2	.9859	1.210	1.060	2,172							
3.	10.84	191.37	523.2	.9850	1.210	1.059	2,618							
4.	10.84	204.59	523.2	.9831	1.210	1.059	2,794							
5.														
NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl								
1.	.78	529	1.37	.889	9.551	55.1 @ 60°								
2.	.78	535	1.38	.890	.683	XXXXXXXXXX								
3.	.78	536	1.39	.891	XXXXXX	G Mix = .970								
4.	.78	538	1.39	.891	Critical Pressure 669	P.S.I.A. _____ P.S.I.A. _____								
5.					Critical Temperature 385	R _____ R _____								
P _c _____ P _c ² _____					1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.497$									
					2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.431$									
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3.746$									
1.	**	3062.9	9381.2	5163.9										
2.	**	2606.6	6794.4	7750.7										
3.	**	2198.0	4831.2	9713.9										
4.	**	1893.6	3585.7	10959.4										
5.														
Absolute Open Flow 3,746 Mcfd @ 15.025					Angle of Slope θ 48.5			Slope, n .8878						
Remarks: * BHP INSTR. SET @ THIS DEPTH														
**BHP'S CORRECTED BACK TO SURFACE PRESSURES														
Approved By Division			Conducted By: West-Test, Inc.			Calculated By: B.M.		Checked By: B.M.						

WELL PRODUCED 46.0 BBLs 55.1 API GR. CONDENSATE.



MANZANO OIL CORPORATION
 APPLESEED FEDERAL COM. NO.1
 17-20-35
 LEA COUNTY, NEW MEXICO
 JUNE 4, 1996

PC²-PW²=THS NDS 46 7400

LOGARITHMIC 3 X 3 CYCLES
 KEUFFEL & ESSER CO. MADE IN U.S.A.

