

**NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL**

Form C-122
Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 11-5-80	
Company WESTERN OIL PRODUCERS				Connection NATURAL GAS PIPELINE	
Pool MALJAMAR PENN				Formation MORROW	
Completion Date 10-24-80		Total Depth 13628		Elevation	
Csg. Size 5 1/2		Set At 13600		Perforations: From 13480 To 13490	
Trq. Size 2 3/8		Set At 13460		Perforations: From To	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE GAS				Packor Set At 13460	
Producing Thru TBG.		Reservoir Temp. °F 209 @ 13460		Mean Annual Temp. °F 60	
				Baro. Press. - P _a 13.2	
L 13460		H 13460		County LEA	
G _g .7259		% CO ₂ .509		State NEW MEXICO	
% N ₂ 1.192		% H ₂ S		Prover 4"	
Meter Run FLG.		Taps			

FLOW DATA							TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
SI							4950				24 HR
1.	4	X	1.000	563	4.0	84	2900				1 "
2.	4	X	1.000	563	25.0	115	2725				1 "
3.	4	X	1.000	565	40.0	122	2400				1 "
4.	4	X	1.000	570	42.3	110	2025				1 "
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mld
1	4.753	48.01	576.2	.9777	1.174	1.067	279
2	4.753	120.02	576.2	.9510	1.174	1.055	672
3	4.753	152.08	578.2	.9452	1.174	1.052	844
4	4.753	157.06	583.2	.9551	1.174	1.056	884
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 28.622 Mcl/bbl.
1.	.86	544	1.36	.878	A.P.I. Gravity of Liquid Hydrocarbons 52.1 @ 600 Deg.
2.	.86	575	1.43	.899	Specific Gravity Separator Gas .7259 XXXXXXXXXX
3.	.87	582	1.45	.903	Specific Gravity Flowing Fluid XXXXXX .828
4.	.87	570	1.42	.896	Critical Pressure 668 P.S.I.A. 665 P.S.I.A.
5.					Critical Temperature 401 °R 434 °R

P _c 4963.2 P _c ² 24633.4				(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.205$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.205$	
NO.	P _w	P _w ²	P _w ² - P _c ²	1	2	3	4
1	2915.3	8499.0	16134.4				
2	2742.9	7523.5	17109.9				
3	2420.0	5856.4	18777.0				
4	2046.8	4189.4	20444.0				
5							

Absolute Open Flow 1,065 Mld @ 15.025		Angle of Slope 45°		Slope, n 1.000	
Remarks: THERE WERE 3.9 BBLS OF OIL PRODUCED DURING THE TEST.					
Orig. Signed By: _____					
Approved By: _____		Conducted By: DAVIS SERVICES, INC		Checked By: _____	
Date: 11-5-80		Calculated By: RICK PAGAN			

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