

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

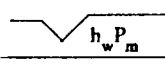
OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Mewbourne Oil Company						Lease or Unit Name Esperanza "28" Fee Com					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 2/1/00		Well No. 1			
Completion Date 1/14/00		Total Depth 11,900'		Plug Back TD 11,814'		Elevation 3160'		Unit Ltr. - Sec. - TWP - Rge. L-28-21S-27E			
Csg. Size 5-1/2"	Wt. 17#	d 4.892"	Set At 11,900'	Perforations: From: 11,464' To: 11,484'				County Eddy			
Tbg. Size 2-7/8"	Wt. 6.5#	d 2.441"	Set At 11,107'	Perforations: From: To:				Pool Burton Flat Morrow			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 11,092'				Formation Morrow			
Producing Thru Tubing		Reservoir Temp. °F 184		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Sales			
L	II	Gg 0.591	% CO ₂ 1.820	% N ₂ 0.517	% H ₂ S 0	Prover		Meter Run		Taps Flange	

FLOW DATA					TUBING DATA		CASINO DATA		Duration of Flow	
NO.	Prover Line Size	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						2250				24 hrs
1.	3.068"X1.500"		500	10	46	1971				24 hrs
2.	3.068"X1.500"		450	22	45	1921				24 hrs
3.	3.068"X1.625"		400	48	48	1895				24 hrs
4.	3.068"X1.875"		420	57	50	1700				24 hrs
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor F _L	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.							1039
2.	Volumes measured by Total Flow meter						1463
3.							2424
4.							3809
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio No liquids _____ Mcf/bbl.		
1.					A.P. I. Gravity of Liquid Hydrocarbons NA _____ Deg.		
2.					Specific Gravity Separator Gas 0.591	XXXXXXXXXX	
3.					Specific Gravity Flowing Fluid XXXXX		
4.					Critical Pressure 673	P.S.I.A.	P.S.I.A.
5.					Critical Temperature 352	R	R

P _c 2851 P _w 8128					$1) \frac{P_c^2}{P_c^2 - P_w^2} = 4.194$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.111$	
NO.	P _i	P _w	P _w ²	P _c ² - P _w ²				
1.		2823	7969	159				
2.		2756	7596	532				
3.		2733	7469	659				
4.		2488	6190	1938				
5.								

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 8039$					Absolute Open Flow 8,039 Mcfd @ 15.025		Angle of Slope θ 62.5		Slope, n 0.521	
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Remarks: No liquids produced during test										
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Approved By Division			Conducted By: AO			Calculated By: JE			Checked By:		
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