

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

Form C-129
Revised 8-1-66

☒ Initial ☐ Amend ☐ Special				Test Date 9-12-80	
Name JAKE L. HAMON				To TO AIR	
Company OSUDO				Unit MORROW	
Date 9-12-80		Back Pressure 11,480		Elevation 3637 GL	
Well No. 5 1/2		Set At 17.00		Perforations: From 11,336 To 11,446	
Well No. 2 3/8		Set At 4.700		Perforations: From OPEN To END	
Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At 10,542	
Tubing Temp. 187°		Reservoir Temp. °F 11,336		Baro. Press. - P _a 13.2	
TUBING		Mean Annual Temp. °F 60°		State NEW MEXICO	
L 11,936	H 11,936	G _g .606	% CO ₂ .338	% N ₂ .456	% H ₂ S -0-
Prover				Meter Run 4"	FLANGE

FLOW DATA						TUBING DATA		CASING DATA		Location at Flow
Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. P _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	
1	4 X 2.00		385	7	76	5417				24 Hours
2	4 X 2.00		395	19	67	3400				1 Hour
3	4 X 2.00		420	35	70	2162				1 Hour
4	4 X 2.00		365	87	60	1770				1 Hour

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, MCF
1	19.81	52.80	398.2	.9850	1.285	1.031	1365
2	19.81	88.07	408.2	.9933	1.285	1.035	2305
3	19.81	123.13	433.2	.9905	1.285	1.036	3216
4	19.81	181.39	378.2	1.000	1.285	1.034	4774

NO.	P _i	Temp. °R	T _i	z	Gas Liquid Hydrocarbon Ratio
1	59	536	1.50	.940	60.729
2	61	527	1.47	.933	A.P.I. Gravity of Liquid Hydrocarbons
3	65	530	1.48	.931	53.0 @ 60°
4	56	520	1.45	.936	Specific Gravity Separator Gas
					.606
					Specific Gravity Flowing Fluid
					X X X X X
					G MIX .656
					Critical Pressure
					671
					Critical Temperature
					358

NO.	P _i	P _w	P _w ²	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	5430.2	3426.4	11740.2	17746.9	1.154	1.154
2		2635.0	6943.2	22543.9		
3		2255.5	5087.3	24399.8		
4		1984.4	3937.8	25549.3		

Rate of Flow	5,510	Mcf @ 14.025	Angle of Slope	45	Slope, n	1.00
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Remarks: **8 BBLs. OF CONDENSATE MADE DURING THE TEST**
***EQUIVALENT LENGTH, 3" LINER FROM 10,639 TO PLUG BACK**

Approved By Oil & Gas Insp.	Conducted By W.S.	Calculated By R.R.	Checked By J.W.W.
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