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

Form G-132

SEP 1 1978

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Type Test U.S. CONVEY		☐ Annual ☐ Special		Test Date 8-29-78		SPUD DATE: 5-27-78	
Comp. ARTESIA, NEW MEXICO		Connection Hondo Drilling Company El Paso Natural Gas Company					
Pool Turkey Track North		Formation Morrow				Unit 0	
Completion Date 7-17-78		Total Depth 11300 11502		Plug Back TD 11253 11500		Elevation 3398 ft. N/A	
Csg. Size 5 1/2		Wt. 17.0		Perforations: From 10884 To 11108		Farm or Lease Name Allscott Federal	
Tbg. Size 2 3/8		Wt. 4.7		Perforations: From open To end		Well No. 3	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10813 10825		Unit Sec. Twp. Rge. 0 31 18 29	
Producing Thru Tbg.		Reservoir Temp. °F 182 @ 10825		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
L 10825		H 10825		G _g .628		Prover 4"	
M 10825		N 10825		O 10825		P 10825	
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
SI							
1.	4	x	1.750	872	2.56	84	60 Min.
2.	4	x	1.750	902	7.29	83	60 Min.
3.	4	x	1.750	921	25.00	78	60 Min.
4.	4	x	1.750	942	53.29	70	45 Min.
5.	4	x	1.750	954	100.00	60	60 Min.
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, Mcfd
1	14.93	47.60	885.2	.9777	1.262	1.074	942
2	14.93	81.68	915.2	.9786	1.262	1.071	1613
3	14.93	152.82	934.2	.9831	1.262	1.079	3054
4	14.93	225.62	955.2	.9905	1.262	1.086	4573
5	14.93	310.99	967.2	1.000	1.262	1.096	6422
NO.	R _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio 67.10 Mcf/bbl.		
1	1.32	544	1.49	.874	A.P.I. Gravity of Liquid Hydrocarbons 54.5 Deg.		
2	1.36	543	1.49	.871	Specific Gravity Separator Gas .628 XXXXXXXXXX		
3	1.39	538	1.47	.859	Specific Gravity Flowing Fluid XXXXXX 672		
4	1.42	530	1.45	.848	Critical Pressure 671 P.S.I.A. P.S.I.A.		
5	1.44	520	1.42	.833	Critical Temperature 365 R R		
$P_c = 3066.2$ $P_c^2 = 9401.6$							
NO.	P _t ²	P _w	R _w ²	P _c ² - R _w ²	$(1) \frac{P_c^2}{P_c^2 - R_w^2} = 4.274$		
1		2950.9	8707.8	693.8	$(2) \left[\frac{P_c^2}{P_c^2 - R_w^2} \right]^n = 4.274$		
2		2887.0	8334.8	1066.8			
3		2852.4	8136.2	1265.4			
4		2800.8	7844.5	1557.1			
5		2683.6	7201.7	2199.9			
Absolute Open Flow 27,448 Mcfd @ 15.025					Angle of Slope 45		Slope, n 1.000
Remarks:							
Approved By Commission:		Conducted By:		Calculated By:		Checked By:	