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OCT 15 1979

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLForm CO-1
Revised

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FEB 17 1979

SECONDARY RECOVERY
DIVISION

Type O.C.E.		ARTESIA, ☒ Initial ☐ Annual		Test Date 2/9/79							
Company Anadarko Production Co.		Connection Llano, Inc.									
Field North Turkey Track		Formation Morrow									
Completion Date 1/4/79		Total Depth 11075' KB		Plug Back To KB 11003							
Elevation 3497RB-15		Lease or Lease Name New Mex. State									
Perforations: 4 1/2	Wt. 11.6	Set At 4.000	Perforations: 11074KB		Well No. 1						
Perforations: 2 3/8"	Wt. 4.6	Set At 1.995	Perforations: 10957KB		Unit F Sec. 35 Twp. 18s						
Type Well - Single - Broadhead - G.G. or G.O. Multiple Single				Packer Set At 10905							
Producing thru Tbg.		Reservoir Temp. °F 220		Mean Annual Temp. °F 10900							
L 10954		H -		Cg 0.6591							
CO ₂ 0.559		N ₂ 0.419		H ₂ O -							
Prover		Meter Run 3"		F							
FLOW DATA											
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. In. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
1	3	12/64	2.250	530	12	42	3165	57	3300	PACKER	43.5
2	3	13/64	2.250	540	20	43	3120	60			4.0
3	3	16/64	2.250	560	36	38	2950	63			1.0
4	3	18/64	2.250	575	50	34	2805	61			1.0
5											
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 _{pv}	Rate of Flow Q, Mscf				
1	28.78	80.65	543.2	1.018	1.232	1.065	3100.30				
2	28.78	105.13	553.2	1.017	1.232	1.064	4033.58				
3	28.78	143.64	573.2	1.022	1.232	1.070	5569.44				
4	28.78	171.45	588.2	1.026	1.232	1.074	6698.70				
5											
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 39.55 Mscf/M						
1	0.81	502	1.35	0.882	A.P.I. Gravity of Liquid Hydrocarbons Unknown						
2	0.82	503	1.36	0.883	Specific Gravity Separator Gas 0.6591 XXXXX						
3	0.85	498	1.34	0.873	Specific Gravity Flowing Fluid XXXXX						
4	0.87	494	1.33	0.867	Critical Pressure 673 P.S.I.A. P.S.I.						
5					Critical Temperature 371 °R						
1. 4474.2 P _c ² 20018.5											
NO.	P _w	P _w ²	P _w ² - P _w ²	(1) $\frac{P_c^2}{P_w^2 - P_w^2} = 8.636$ (2) $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 4.87$							
1	4352.2	18941.6	1076.9	ADP = $\left[\frac{P_c^2}{P_w^2 - P_w^2} \right]^n = 27123$							
2	4310.2	18577.8	1440.7								
3	4207.2	17700.5	2318.0								
4	4122.2	16992.5	3026.0								
5											
Absolute gas flow 27123				Mscf @ 15.025		Angle of Slope 53° 41'					
Remarks: * BOTTOM HOLE PRESSURE @ (-7457) 10954' USED FOR PRESSURE CALCULATIONS											
Approved by Commission		Conducted by JADRI SERVICES INC		Calculated by Joe A. Coleman		Checked by Joe A. Coleman					