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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

NOV 3 '94

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Anadarko Petroleum Corporation					Lease or Unit Name State 'AC' Com				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 10/28/94		Well No. 1		
Completion Date 10/26/94		Total Depth 11,150		Plug Back TD 10,648		Elevation 3444' GL		Unit Ltr. - Sec. - TWP - Rge. H 35 18s 28e	
Csg. Size 4 1/2	Wt. 11.6	d 4.000	Set At 11,149	Perforations: From: 10,312 To: 10,333			County Eddy		
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 10,210	Perforations: From: Open To: Ended			Pool Undesignated		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10,210			Formation Atoka		
Producing Thru Tbg		Reservoir Temp. °F 158		Mean Annual Temp. °F 60		Baro. Press - P _a 13.2		Connection Llano Inc.	
L	H	Gg 0.678	% CO ₂ 0.33	% N ₂ 1.34	% H ₂ S -	Prover -	Meter Run 3.068	Taps FLG	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	Orifice X 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						3809	60	PACKER		47.75 Hrs
1.	3.068 x	1.750	490	2.5	79	3560				1 Hr.
2.	3.068 x	1.750	515	7.4	52	3199				1 Hr.
3.	3.068 x	1.750	520	12	39	2807				1 Hr.
4.	3.068 x	1.750	530	20	33	2337				.75 Hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	15.61	35.47	503.2	0.9822	1.214	1.049	693
2.	15.61	62.52	528.2	1.008	1.214	1.064	1271
3.	15.61	79.99	533.2	1.021	1.214	1.069	1654
4.	15.61	104.23	543.2	1.027	1.214	1.073	2177
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	0.75	539	1.42	0.909	24	
2.	0.79	512	1.35	0.884	A.P. I. Gravity of Liquid Hydrocarbons 55	Deg.
3.	0.80	499	1.32	0.875	Specific Gravity Separator Gas 0.678	XXXXXXXXXX
4.	0.81	493	1.30	0.868	Specific Gravity Flowing Fluid XXXXX	
5.					Critical Pressure 668 P.S.I.A.	P.S.I.A.
					Critical Temperature 379 R	R

P_c 5196.2 * P_c² 27000.5

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		4905.2	24061.0	2939.5
2.		4486.2	20126.0	6874.5
3.		4032.2	16258.6	10741.9
4.		3456.2	11945.3	15055.2
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.793$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.495$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3255$

Absolute Open Flow	3255	Mcf @ 15.025	Angle of Slope θ	55° 26'	Slope, n	0.689
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Remarks: * Bottom hole pressures @ 10323' (-6879) used for pressure calculations

Well produced 9 bbls condensate in 3.75 hours

Approved By Division	Conducted By: Jarrel Services, Inc.	Calculated By: D. Dickerson	Checked By: D. Dickerson
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