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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-122
Revised October, 1999

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator PHILLIPS PETROLEUM COMPANY					Lease or Unit Name GRAYBURG DEEP "30" FED.					
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 1/15/2002					
Completion Date 12/01/01					Well No. 1					
Total Depth 11600					Unit Ltr. - Sec. - TWP - Rge. N, 30, 17-S, 30-E					
Plug Back TD 11472					Elevation 3604					
Csg. Size 5.5"					County EDDY					
Wt. 17 #					Perforations: From: 11073' To: 11110'					
d 4.892'					Set At 11562'					
Thg. Size 2-7/8"					Pool SAND TANK; MORROW					
Wt. 10,343'					Perforations: From: To:					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE					Packer Set At 11,193'					
Producing Thru CASING					Formation MORROW					
Reservoir Temp. °F 166					Connection 12/01/01 EOG Res. INC.					
Mean Annual Temp. °F 60					Baro. Press - P _a 13.2					
L 11092					Meter Run 4.026					
H 11092					Taps FLANGE					
Gg 0.81					Prover					
%CO ₂ 0.71					%N ₂ 0.66					
%H ₂ S										
FLOW DATA										
No.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _a	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration Of Flow
SI								876.8	46	93
1.	4.026	2.625	136	7.2	65.1			606.8	59	1
2.	4.026	2.625	145	12.2	83.0			421.8	63	1
3.	4.026	2.625	150	15.0	86.1			248.8	64	1
4.										
5.										
RATE OF FLOW CALCULATIONS										
No.	COEFFICIENT (24 HOUR)	$\sqrt{h_a P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd			
1.	36.66	32.81	149.5	.9951	1.1111	1.0216	1356			
2.	36.66	43.93	158.2	.9786	1.1111	1.0206	1784			
3.	36.66	49.48	163.2	.9758	1.1111	1.0209	2003			
4.										
5.										
No.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio 398662 Mcf/bbl.					
1.	0.23	525	1.25	.958	A. P. I. Gravity of Liquid Hydrocarbons 50 Deg.					
2.	0.24	543	1.29	.960	Specific Gravity Separator Gas 0.81 XXXXXXXXXX					
3.	0.25	546	1.30	.960	Specific Gravity Flowing Fluid XXXXXX .817					
4.					Critical Pressure 664 P.S.I.A. 664 P.S.I.A.					
5.					Critical Temperature 421 R. 423 R					
P _c 827.9 P _c ² 685										
No.	P _r ²	P _w	P _w ²	P _c ² - P _w ²	(1) P _c = 1.3488 (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.1962$					
1.		648	420	265	$\frac{P_c^2 - P_w^2}{P_c^2 - P_w^2}$					
2.		531	282	404	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2396$					
3.		421	177	508						
4.										
5.										
Absolute Open Flow 2396 Mcfd@ 15.025					Angle of Slope θ: 59.1 Slope, n: 0.599					
Remarks: Bottomhole pressures recorded using electronic gauge #T31.										
Approved By Division			Conducted By: ARC Pressure Data, Inc.			Calculated By: James Moomaw			Checked By:	