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appropriate district office.
See Rule 401 & Rule 1122

State of New Mexico
Energy Minerals and Natural Resources

Form C-122
Revised October, 1999

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator BTA Oil Producers						Lease or Unit Name Burgundy, 20005 JV-P					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 03/15/01			Well No. 1		
Completion Date 03/15/01			Total Depth 13353'			Plug Back TD 12975'			Elevation 3671' GL 3691' KB		
Csg. Size 13-3/8"			Wt. 54.5			Set At 1297			Perforations: From: 12713 To: 12718		
Thg. Size 9-5/8"			Wt. 40			Set At 5272			County Lea		
Thg. Size 2-7/8"			Wt. 29			Set At 11400			Pool Grama Ridge; Morrow,		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 12663			Formation Morrow East (Gas)		
Producing Thru Tbg			Reservoir Temp. °F 181			Mean Annual Temp. °F 60			Baro. Press - P _i 13.2		
L 12663			H 12663			Gg .668			%CO ₂ 3.34		
						%N ₂ .85			%H ₂ S 0		
						Prover			Meter Run 4.026		
									Taps Flange		

FLOW DATA					TUBING DATA		CASING DATA		Duration Of Flow
No.	Prover Line Size	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
SI	4.026	x 1.000				5605	65	Pkr	
1.	4.026	x 1.000	640	3.5	84	4755	63	Pkr	1 hr
2.	4.026	x 1.000	640	12	83	3410	65	Pkr	1 hr
3.	4.026	x 1.000	665	28	75	2340	65	Pkr	1 hr
4.	4.026	x 1.000	680	45	76	1560	65	Pkr	1 hr
5.									

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.	4.753	47.81	653.2	.9971	1.224	1.054	292
2.	4.753	88.53	653.2	.9952	1.224	1.058	542
3.	4.753	137.80	678.2	.9952	1.224	1.064	849
4.	4.753	176.62	693.2	.9952	1.224	1.064	1088
5.							

No.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl.
1.	.960	544	1.48	.901	A. P. I. Gravity of Liquid Hydrocarbons 4	Deg.
2.	.960	543	1.45	.894	Specific Gravity Separator Gas .668	XXXXXXXXXX
3.	.997	535	1.43	.884	Specific Gravity Flowing Fluid XXXXXX	
4.	1.019	536	1.43	.884	Critical Pressure 680	P.S.I.A.
5.					Critical Temperature 374	R.

P _f 7993		P _f ² 63888		(1) $\frac{P_f^2}{P_f^2 - P_w^2} = 1.147$		(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.147$	
No.	P _i ²	P _s	P _s ²	P _f ² - P _s ²			
1.		7148.1	51095	12793			
2.		5597.6	31333	32555			
3.		4061.1	16493	47395			
4.		2863.8	8201	55687			
5.							

Absolute Open Flow 1248		Mcf/d @ 15.025		Angle of Slope θ: 45		Slope, n: 1.000	
Remarks: Test Run w/BHP Bombs in well during test							
Approved By Division		Conducted By: BTA Oil Producers		Calculated By: T. J. Williams		Checked By:	

20005 JV-P Burgundy #1
 E Sec 35 T21S R34E
 Lea Co., New Mexico

