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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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator Shell E & P Inc.						Lease or Unit Name Big Green STATE B6					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date August 12, 1996					
Completion Date August 5, 1996		Total Depth 12,500'		Plug Back TD 12,408'		Elevation 3984		Well No. 1			
Csg. Size 7"		WL d		Set At 12,450'		Perforations: From: 11,928' To: 11,938'				Unit Ltr. - Sec. - TWP - Rge. B 19-17S-35E	
Tbg. Size 2 7/8"		WL 6.5"		Set At 11,360'		Perforations: From: To:				County Lea	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,354'		Formation Atoka/Morrow			
Producing Thru Tubing		Reservoir Temp. °F 60		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		Connection Vented			
L 11933		H 11933		G _s .709		% CO ₂		% N ₂		% H ₂ S	
Prover		Meter Run 3.026		Taps Flange							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice 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							3660		Packer		24 Hrs.
1.	3	X	1.500	180	5.50	80	3488		Packer		1 Hr.
2.	3	X	1.500	175	9.00	80	3376		Packer		1 Hr.
3.	3	X	1.500	185	22.00	66	3238		Packer		1 Hr.
4.	3	X	1.500	180	50.00	60	2966		Packer		1 Hr.
5.											

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_w}$	Pressure P _w	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}	Rate of Flow Q, Mcfd
1.	11.13	32.60	193.2	.9813	1.188	1.021	432
2.	11.13	41.16	188.2	.9813	1.188	1.021	545
3.	11.13	66.03	198.2	.9943	1.188	1.022	887
4.	11.13	98.29	193.2	1.0000	1.188	1.023	1,330
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Mc/Std.
1.	.28	540	1.37	.959	4.033	
2.	.28	540	1.37	.959		
3.	.29	526	1.34	.958		
4.	.28	520	1.32	.955		
5.						

NO.	P _r	P _w	P _u	P _r ² - P _w ²	1) $\frac{P_r^2}{P_r^2 - P_w^2} =$	2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right] =$
1.	5946.2	4505.0	20295.0	1328.4	3.757	3.196
2.	5855.2	4420.2	19538.2	2085.2		
3.	5609.2	4206.3	17693.0	3930.4		
4.	5350.2	3983.4	15867.5	5755.9		
5.	6111.2 (SIP)					

Absolute Open Flow 4.251		Mcfd @ 15.025		Angle of Slope Θ 48.8		Slope, n .8777	
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Remarks: * = BHP instrument set at this depth. ** = Calculated from known BHP's

Well made 33 BBLS of 46.9 API Gravity condensate during test.

Approved By Division	Conducted By: Omega Prod. Serv. Inc.	Calculated By: Bob Moore	Checked By: Bob Moore
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