

SOUTH BLANCO-PICTURED CLIFFS GAS POOL
ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum		1000 Minimum		1500 Minimum		2000 Minimum	
	#Wells	Allowable	#Wells	Allowable	#Wells	Allowable	#Wells	Allowable
1. Producing ability less than 0 minimum breaking point. (48 MCFD - 1468 MCF/Mo)	199	169,555 5.1%	199	169,555 5.1%	199	169,555 5.1%	199	169,555 5.1%
2. Producing ability of more than 1468 MCF/Mo and less than minimum allowable.			The zero minimum allowable factors calculate more than 1000 MCFM allowable at the breaking point. Therefore a 1000 minimum allowable would not be effective at current conditions of development & market demand.		6	8,939 .3%	146	256,696 7.6%
3. Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.					4	5,659 .2%	8	13,863 .4%
4. Prorated on basis of 25% acreage plus 75% acreage times deliverability.	733	3,177,123 94.9%	723	3,162,525 94.1%	77.6%	3,162,184 94.4%	579	2,906,564 97.1%
TOTALS	932	3,346,678	932	3,346,678	932	3,346,678	932	3,346,678

NOTE: The percentage figure directly beneath a well or allowable figure indicates the percentage of wells or allowable of the total wells or allowable for the Pool.

The volume figures in brackets indicate the comparison of the allowable, in the column & well group in which the data is located, to the zero minimum allowable located immediately to the left. The percentage figure in the brackets reflects the percentage of group 4 zero minimum allowable which would be allocated that well group because of the assignment of minimum allowable.

BEFORE THE
 OIL CONSERVATION COMMISSION
 SANTA FE, NEW MEXICO
 O.C.C. EXHIBIT No. 3
 CASE 2-22-3

WEST KUTZ-PICTURED CLIFFS GAS POOL

ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum			1000 Minimum			1500 Minimum			2000 Minimum		
	# Wells	Allowable		# Wells	0 Min	1000 Min	# Wells	0 Min	1500 Min	# Wells	0 Min	2000 Min
1. Producing ability less than 0 minimum breaking point. (14 MCFD - 464 MCF/Mo)	23	6,041		23	6,041	6,041	23	6,041	6,041	23	6,041	6,041
				12.8%	2.4%	2.4%	12.8%	2.4%	2.4%	12.8%	2.4%	2.4%
2. Producing ability of more than 464 MCF/Mo and less than minimum allowable.				37	26,808	26,808	86	82,513	87,797	111	118,593	131,829
				20.7%	10.7%	10.7%	48.0%	33.0%	35.2%	62.0%	47.5%	52.8%
									→ + 5,284			→ + 13,236
									4.0%			→ + 15.8%
3. Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.				19	16,222	19,000	23	29,638	34,500	23	41,373	46,000
				10.6%	6.5%	7.6%	12.8%	11.8%	13.80%	12.8%	16.5%	18.4%
						→ + 2,728			→ + 4,862			→ + 4,627
						→ + 1.36%			→ + 3.7%			→ + 5.5%
4. Prorated on basis of 25% acreage plus 75% acreage times deliverability.	156	243,339		100	200,309	197,501	47	131,188	121,042	22	83,373	65,510
				55.9%	80.4%	79.3%	26.4%	52.6%	48.6%	12.4%	33.6%	26.4%
						- 2,808						
						- 1.1%						
TOTALS	179	249,380		179	249,380	249,380	179	249,380	249,380	179	249,380	249,380

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BEFORE THE
CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

EXHIBIT NO.

CASE

FULCHER KUTZ-PICTURED CLIFFS GAS POOL

ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum			1000 Minimum			1500 Minimum			2000 Minimum		
	#Wells	Allowable		#Wells	Allowable	0 Min	#Wells	Allowable	0 Min	#Wells	Allowable	0 Min
1. Producing ability less than 0 minimum breaking point. (17 MCFD - 552 MCF/Mo)	47	12,299		47	12,299	12,299	47	12,299	12,299	47	12,299	12,299
	16.8%	3.25%		16.8%	3.25%	3.25%	16.8%	3.25%	3.25%	16.8%	3.25%	3.25%
2. Producing ability of more than 552 MCF/Mo and less than minimum allowable.	55	42,706	42,706	128	130,890	132,515	162	181,669	191,264	58.0%	48.02%	50.56%
	19.7%	11.29%	11.29%	45.9%	34.6%	35.03%	58.0%	48.02%	50.56%			
			-0-			+ 1,625						
			-0-			+ .78%						
3. Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.	23	17,965	23,000	22	26,173	33,000	28	44,930	56,000	10.0%	11.87%	14.8%
	8.2%	4.75%	6.08%	7.9%	6.91%	8.72%						
			+ 5,035			+ 6,827						
			+ 1.65%			+ 3.27%						
4. Prorated on basis of 25% acreage plus 75% acreage times deliverability.	154	305,297	300,262	82	208,905	200,854	42	139,369	118,704	15.2%	36.86%	31.39%
	55.3%	80.71%	79.38%	29.4%	55.24%	53.00%						
TOTALS	279	378,267	378,267	279	378,267	378,267	279	378,267	378,267	279	378,267	378,267

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BEFORE THE
OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO
CASE NO. 144,371 MO

AZTEC-PICTURED CLIFFS GAS POOL

ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum		1000 Minimum		1500 Minimum		2000 Minimum	
	#Wells	Allowable	#Wells	Allowable	#Wells	Allowable	#Wells	Allowable
1. Producing ability less than 0 minimum breaking point. (34 MCFD - 1043 MCF/MO)	50	31,061	50	31,061	50	31,061	50	31,061
					14.0%	3.2%	14.0%	3.2%
2. Producing ability of more than 1043 MCF/MO and less than minimum allowable.					54	68,742	94	152,082
					15.2%	7.09%		15.69%
								145,311
								14.9%
								6,771
								.87%
3. Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.					2	2,287	9	15,808
					.56%	.24%		1.63%
								18,000
								1.8%
								2,192
								.28%
4. Prorated on basis of 25% acreage plus 75% acreage times deliverability.	307	938,166			251	867,137	204	770,276
					70.3%	89.7%		79.5%
								774,855
								79.9%
TOTALS	357	969,227	357	969,227	357	969,227	357	969,227

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BEFORE THE
OIL CONSERVATION COMMISSION
SAN ANTONIO, TEXAS

CASE

BALLARD-PICTURED CLIFFS GAS POOL

ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum		1000 Minimum		1500 Minimum		2000 Minimum	
	#Wells	Allowable	#Wells	0 Minimum Allowable	#Wells	0 Minimum Allowable	#Wells	0 Minimum Allowable
1. Producing ability less than 0 minimum breaking point. (30 MCFD - 915 MCF/Mo)	83	54,036 5.5%	83	54,036 5.5%	83	54,036 5.5%	83	54,036 5.5%
2. Producing ability of more than 464 MCF/Mo and less than minimum allowable.	4	3,861 .4%	4	3,861 .4%	67	82,847 8.5%	138	196,125 20.1%
3. Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.	4	3,753 .4%	4	3,753 .4%	31	42,318 4.3%	20	32,573 3.3%
4. Prorated on basis of 25% acreage plus 75% acreage times deliverability.	321	920,263 94.5%	313	912,649 93.7%	223	795,098 81.7%	163	691,565 71.1%
TOTALS	404	974,299	404	974,299	404	974,299	404	974,299

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U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
DENVER, COLORADO

BLANCO-MESAVERDE GAS POOL

ESTIMATED EFFECT OF VARIOUS MINIMUM ALLOWABLES

Well Groups	0 Minimum		0 to 2500 Minimum		3000 Minimum	
	# Wells	Allowable	# Wells	Allowable	0 Minimum Allowable	3000 Minimum Allowable
Producing ability less than 0 minimum breaking point. (92 MCFD - 2817 MCF/Mo)	393 21.5%	629,445 4.7%	393 21.5%	629,445 4.7%	629,445 4.7%	629,445 4.7%
Producing ability of more than 2817 MCF/Mo and less than minimum allowable.			36 2.0%	104,489 .8%	104,489 .8%	104,489 .8%
Producing ability of more than minimum allowable but calculate less than minimum and are assigned the minimum allowable.			14 .8%	38,510 .29%	42,000 .31%	42,000 .31%
Prorated on basis of 25% acreage plus 75% acreage times deliverability.	1,435 78.5%	12,625,807 95.3%	1,385 75.7%	12,482,808 94.2%	12,479,348 94.2%	12,479,348 94.2%
TOTALS	1,828	13,255,252	1,828	13,255,252	13,255,252	13,255,252

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EXAMPLE OF INCOME FOR VARIOUS MINIMUM ALLOWABLES

PICTURED CLIFFS GAS POOLS

	Aztec Breaking Point Allowable (1010)	Ballard Breaking Point Allowable (915)	Fulcher Kutz Break- ing Point Allowable (552)	South Blanco Breaking Point Allowable (1468)	West Kutz Breaking Point Allowable (464)	1000 Minimum Allowable	1500 Minimum Allowable	2000 Minimum Allowable
Gas @ 11.5¢ MCF	116.15	105.22	63.48	168.82	53.36	115.00	172.00	230.00
Less Royalty @ 12.5%	14.40	13.05	7.87	20.93	6.62	14.37	21.56	28.75
Less well operating costs	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Gross Monthly Income after Royalty and operating costs	51.75	42.17	5.61	97.89	3.26	50.63	100.44	151.25

EXAMPLE OF INCOME FOR VARIOUS MINIMUM ALLOWABLES

BLANCO MESAVERDE GAS POOL

	Breaking Point Allowable (2817)	3000 Minimum Allowable
13¢ MCF	366.21	390.00
valty @ 12.5%	45.76	48.75
11 operating costs	100.00	100.00
Monthly Income after and operating costs	220.45	241.25