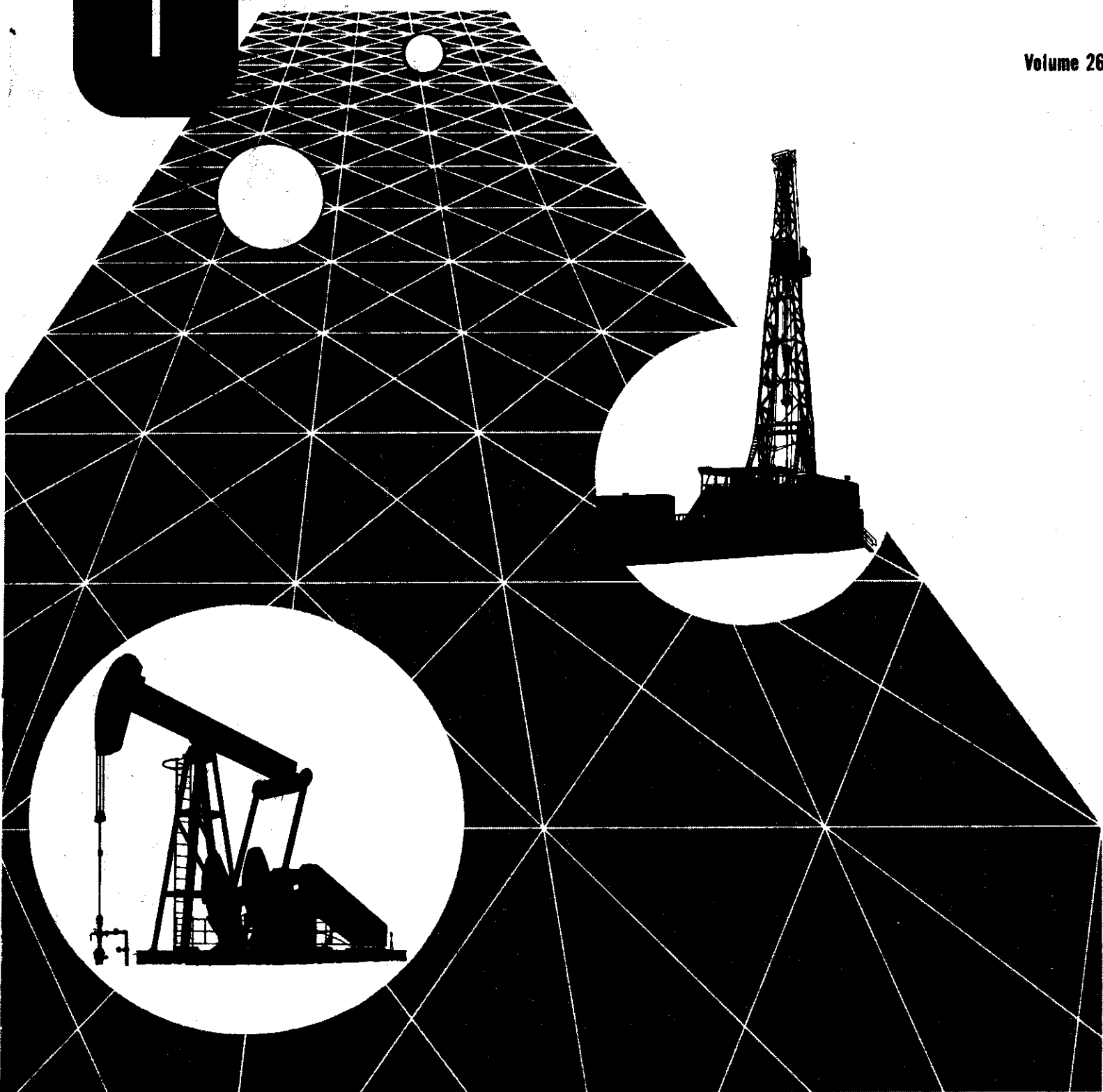


MONTANA

# OIL & GAS

Annual  
Review  
1982

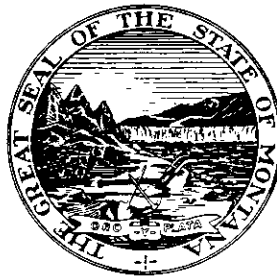
Volume 26



DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION  
OF THE STATE OF MONTANA

# Oil and Gas Conservation Division

Ted Schwinden, Governor



ANNUAL REVIEW FOR THE YEAR 1982  
Relating to  
**OIL AND GAS**  
Volume 26

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## Annual Review for the Year 1982 Volume 26

### ACTIVITY REVIEW — MONTANA 1982

Oil production for 1982 was up by more than 100,000 barrels at 30.9 million barrels as compared to approximately 30.8 million barrels for 1981. This is the second consecutive year in which Montana's oil output has increased over the previous year. Due to natural depletion there had been a steady decline in yearly oil production from 1974 to 1981. The increased oil production over the last two years denotes the additional oil reserves discovered as a result of the active exploration and drilling programs pursued mainly during 1981.

Total gas withdrawals (natural and associated) for 1982 at 50.93 billion cubic feet were also up by 860 million cubic feet over 1981. Although natural gas production was down by 550 million cubic feet, marketed associated gas, which is produced with oil from the deeper pay zones in the Williston Basin area of eastern Montana, increased a substantial 1.41 billion cubic feet.

The number of wells drilled for oil or gas in Montana during 1982 totaled 886, a decrease of 263 from the 1981 record high of 1,149 wells. The major decrease was in wildcat drilling, 358 wells as compared to 552 in 1981. However, of the wildcats drilled, 64 were completed as oil and 46 as gas producers for an above average success ratio of 30%. Active development drilling continued through 1982 where 528 wells encountered 263 oil and 145 gas producers.

Considerable interest is being shown in Montana's potential petroleum reserves by the continued geophysical and geological research programs being pursued. Prospects are apparently being refined indicating a possible increase of wildcat drilling in 1983.

Computer hardware was installed in the Billings office in late 1982 with the main objective to facilitate the storage and retrieval of all well and production data.

A total of 298 applications for determination to qualify for a maximum lawful price as prescribed by the Natural Gas Policy Act of 1978 (NGPA) were received during 1982. This is 25 more than 1981 and the highest number of applications since the first year's (1979) 328. Total applications by Category included: 76 for new onshore well—2.5 mile test (Category 102-2); 33 for new onshore reservoir (Category 102-4); 95 for new onshore production well (Category 103); and 94 for stripper well (Category 108).

The Board of Oil and Gas Conservation issued 139 Board Orders in 1982. The greater portion pertained to pooling of interests, establishment of field delineations and spacing rules, exceptions to spacing and drilling rules, and the approval of secondary recovery projects. Included in the total were 21 Administrative Board Orders governing the underground disposal of produced water.

**1982  
SUMMARY OF YEAR ACTIVITIES**

**OIL**

	<b>Bbls</b>	<b>Bbls of Oil per day</b>
Oil Produced .....	30,917,311	84,705
Oil Imported		
From: Canada .....	15,402,257	
North Dakota .....	206	
Wyoming .....	<u>17,793,446</u>	
Total .....	33,195,909	90,948
Oil Exported .....	21,746,806	59,580

**GAS**

	<b>GAS</b>	<b>MCF/DAY</b>
Gas Withdrawals:		
Natural .....	44,282,577	
Associated .....	<u>6,649,583</u>	
Total .....	50,932,160	139,540
Gas Imported:		
From: Canada .....	13,920,534	
Dakotas .....	18,047,851	
Wyoming .....	<u>9,613,287</u>	
Total .....	41,581,672	113,922
Gas Exported:		
To: Canada .....	167,926	
Dakotas .....	9,164,754	
Wyoming .....	10,808,253	
Midwest .....	<u>9,668,672</u>	
Total .....	29,809,605	81,670

## FIVE YEAR SUMMARY

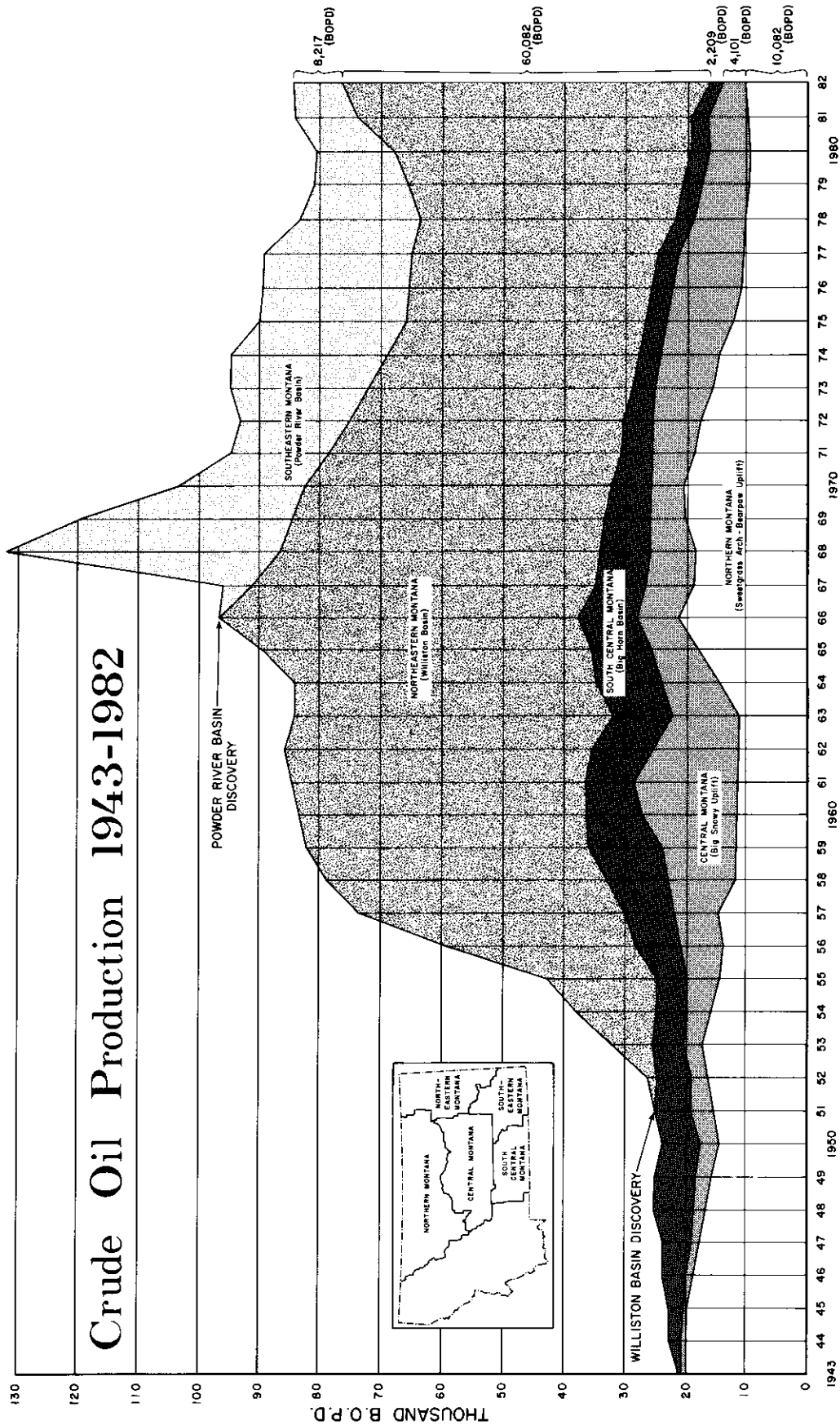
	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>	<u>1982</u>
<b>PRODUCTION IN BARRELS:</b>					
Northern Montana .....	3,671,322	3,536,296	3,516,807	3,605,207	3,680,043
South Central .....	1,095,737	1,131,798	1,055,105	910,595	806,366
Central .....	3,343,556	3,029,397	2,612,091	2,583,690	1,496,895
Williston Basin .....	15,103,853	16,546,576	17,739,142	19,954,159	21,934,760
Powder River Basin .....	7,252,869	5,713,032	4,660,659	3,759,760	2,999,247
TOTAL .....	<u>30,467,337</u>	<u>29,957,099</u>	<u>29,583,804</u>	<u>30,813,411</u>	<u>30,917,311</u>
<b>NUMBER OF PRODUCING WELLS:</b>					
Northern Montana .....	2,052	2,089	2,212	2,280	2,455
South Central .....	115	112	124	132	138
Central .....	347	340	358	354	249
Williston Basin .....	863	886	996	1,080	1,360
Powder River Basin .....	169	165	148	174	212
TOTAL .....	<u>3,546</u>	<u>3,592</u>	<u>3,838</u>	<u>4,020</u>	<u>4,414</u>
<b>AVERAGE DAILY PRODUCTION/WELL:</b>					
Northern Montana .....	4.9	4.6	4.3	4.3	4.1
South Central .....	26.1	27.7	23.2	18.9	16.0
Central .....	26.4	24.4	19.9	20.0	16.5
Williston Basin .....	47.9	51.2	48.7	50.6	44.2
Powder River Basin .....	117.6	94.9	86.0	59.2	38.8
STATE AVG. ....	<u>23.5</u>	<u>22.8</u>	<u>21.1</u>	<u>21.0</u>	<u>19.2</u>
<b>DEVELOPMENT WELLS DRILLED:</b>					
Oil Wells .....	123	120	241	276	263
Gas Wells .....	223	235	203	133	145
Dry Holes .....	232	182	206	188	120
Service Wells .....					19
TOTAL .....	<u>578</u>	<u>537</u>	<u>650</u>	<u>597</u>	<u>547</u>
<b>EXPLORATORY WELLS DRILLED:</b>					
Oil Wells .....	21	35	30	126	64
Gas Wells .....	15	20	12	85	46
Dry Holes .....	179	211	260	341	248
TOTAL .....	<u>215</u>	<u>266</u>	<u>302</u>	<u>552</u>	<u>358</u>
TOTAL WELLS DRILLED .....	793	803	952	1,149	905
TOTAL FOOTAGE DRILLED .....	2,968,842	3,147,341	4,032,032	5,797,770	4,342,410
AVERAGE FOOTAGE DRILLED .....	3,744	3,919	4,235	5,046	4,798

# SUMMARY OF DRILLING BY COUNTIES — 1982

## STATE OF MONTANA

County	Development				Wildcat				Service	Total Wells	Footage Drilled	Average Depth
	Oil	Gas	Dry	Oil	Gas	Dry	Oil	Gas				
Big Horn						3				3	17,804	5,934
Blaine			14	2	2	4				35	69,122	1,974
Carbon	2	2	6	2	1	2				15	62,229	4,148
Carter		2				1				3	4,099	1,366
Cascade						2				2	4,800	2,400
Chouteau		1	2	1	10	4				18	25,031	1,390
Custer						1				1	5,367	5,367
Daniels	1		1	2		4				8	70,755	8,844
Dawson			1	3		9		1		14	137,037	9,788
Fallon	16	7			2	3				28	191,702	6,846
Fergus						6				6	12,196	2,032
Garfield						10				10	62,983	6,298
Glacier	28	1	2	1		2		2		36	106,740	2,965
Granite						3				3	11,029	3,676
Golden Valley						3				3	23,530	7,843
Hill			7	3		9				29	59,726	2,059
Judith Basin						2				2	6,588	3,294
Lewis & Clark						2				2	18,645	9,322
Liberty	5		1	1	1	6				14	35,819	2,558
Madison						2				2	10,750	5,375
McCone						11				11	92,002	8,363
Musselshell	6		10	2		16		3		37	151,432	4,092
Petroleum			5							5	10,673	2,134
Phillips		68	1		3	11				83	149,961	1,806
Pondera	23	6	7	1	6	16		1		60	116,982	1,949
Powder River	5		1			1				7	32,061	4,580
Prairie						1				1	10,100	10,100
Richland	46		9	18		14		1		88	1,009,020	11,466
Roosevelt	19		7	8		26		6		66	640,859	9,709
Rosebud	3		7			10		1		21	110,923	5,282
Sheridan	3		4	9		20		2		38	390,356	10,272
Stillwater			2		1					3	5,184	1,728
Teton	6	2	2	1		11				21	71,945	3,425
Toole	92	31	25	1	16	8				173	283,807	1,640
Valley			3	12	1	18		1		35	178,677	5,105
Wheatland						1				3	10,825	3,608
Wibaux	4		1	1		2		1		9	95,740	10,637
Yellowstone	4		2			4				10	45,913	4,591
<b>TOTALS</b>	<b>263</b>	<b>145</b>	<b>120</b>	<b>64</b>	<b>46</b>	<b>248</b>		<b>19</b>		<b>905</b>	<b>4,342,410</b>	<b>4,798</b>

# Crude Oil Production 1943-1982





**GAS PRODUCTION DATA — 1982**  
**14.73 PSIA @ 60 °F**

**1982**  
**Marketed**  
**MCF**

Field	County	Producing Formation	MCF
Natural Gas			
Alma	Liberty	Blackleaf, Bow Island, Sawtooth	9,799
Amanda	Toole	Swift	171,167
Antelope Coulee	Toole	Bow Island	70,290
Arch Apex	Toole	Bow Island	233,371
Badlands	Hill	Eagle	341,377
Battle Creek	Blaine	Eagle	2,172,651
Bears Den	Liberty	Sawtooth, Sunburst	26,669
Bell Creek, South	Powder River	Muddy	120,227
Big Coulee	Golden Valley, Stillwater	Lakota, Morrison	485,522
Big Rock	Glacier	Blackleaf, Bow Island	827,349
Bills Coulee	Teton	Sunburst, Madison	357,116
Black Butte	Hill	Eagle, Judith River	77,296
Black Coulee	Blaine	Eagle	122,028
Blackfoot	Glacier	Dakota	354,255
Blackjack	Liberty	Sunburst, Swift, Blackleaf	101,762
Blackleaf Canyon	Teton	Sun River	4,670
Border	Toole	Cut Bank	20,763
Bowdoin	Phillips, Valley	Bowdoin	7,833,750
Bowdoin Area	Phillips, Valley	Bowdoin, Phillips, Carlile-Greenhorn	258,656
Bowes	Blaine	Eagle	290,649
Browns Coulee	Hill	Judith River, Eagle	38,118
Browns Coulee, East	Hill	Eagle	71,452
Buffalo Flats	Chouteau	Bow Island	436,270
Bullwacker and Area	Blaine, Chouteau	Judith River, Eagle-Virgelle	932,962
Camp Creek	Chouteau	Eagle	2,925
Canadian Coulee	Hill, Liberty	Sawtooth	304,820
Canadian Coulee, North	Hill	Sawtooth	147,977
Cedar Creek	Fallon	Judith River, Eagle	1,482,790
Chain Lakes Area	Hill	Eagle	27,037
Chester Area	Liberty	Bow Island	5,633
Chinook, East	Blaine	Eagle	27,001
Chip Creek	Chouteau	Eagle-Virgelle	9,495
Clarks Fork, South	Carbon	Frontier	19,928
Coal Coulee	Hill	Eagle	55,111
Conrad Butte (Ledger Fld)	Pondera, Toole	Bow Island	487,022
Cut Bank and Reagan	Glacier, Toole	Cut Bank, Madison, Blackleaf, Moulton, Sunburst	2,571,973
Devon, South	Toole	Bow Island	82,974
Dry Creek	Carbon	Greybull, Lakota, Judith River, Eagle, Frontier	569,202
Dry Creek, Middle	Carbon	Frontier, Lakota	148,723
Dunkirk	Toole	Lower Dakota, Bow Island	108,459
Dunkirk, North	Toole	Bow Island	277,348
Eagle Springs	Toole	Bow Island	83,808
Ethridge Area	Toole	Bow Island, Swift	159,498
Ethridge, North	Toole	Swift	13,142
Fitzpatrick Lake	Toole	Bow Island	166,697
Flat Coulee	Liberty	Sawtooth, Bow Island, Dakota, Swift	62,547
Fort Conrad	Toole, Pondera	Bow Island	5,175
Fort Conrad Area	Toole, Pondera	Bow Island	25,890
Fred and George Creek	Toole	Sunburst, Swift	31,354
Fresno	Hill	Eagle-Virgelle, Judith River	88,585
Gilford	Hill	Sawtooth	17,101
Gold Butte	Toole	Bow Island	2,428
Golden Dome	Carbon	Greybull	88,947
Grandview	Liberty	Bow Island, Madison	95,669
Gypsy Basin	Pondera	Sunburst	110,338
Hammond	Carter	Muddy	94,738
Hardin	Big Horn	Frontier	23,060
Hardpan	Pondera	Bow Island	81,010
Hardpan Area	Pondera	Bow Island	40,364

**GAS PRODUCTION DATA – 1982 (CONTINUED)**  
**14.73 PSIA @ 60°F**

Field	County	Producing Formation	1982 Marketed MCF
Havre	Hill	Eagle	39,228
Haystack Butte	Liberty	Bow Island	28,233
Highview	Pondera	Madison	7,415
Keith, East	Liberty	Niobrara	480,904
Keith Area	Liberty	Niobrara	114,994
Kevin-Sunburst	Toole	Swift, Sun River, Nisku, Bow Island, Sunburst	530,283
Kevin-Sunburst Nisku	Toole	Swift	55,915
Kevin, Southwest	Toole	Bow Island, Sunburst, Swift	452,262
Kicking Horse	Toole	Bow Island, Sunburst, Sawtooth	116,876
Kinyon Coulee	Toole	Bow Island	36,052
Kinyon Coulee, South	Toole	Bow Island	2,376
Kippen, East	Toole	Swift, Madison	1,740
Lake Basin	Stillwater	Claggett, Eagle-Virgelle, Telegraph Creek, Frontier	390,482
Lake Basin, North	Stillwater	Eagle	15,136
Laredo	Hill	Eagle	69,694
Leroy	Blaine	Judith River, Eagle-Virgelle	910,375
Liscom Creek	Custer	Shannon	116,386
Little Creek Area	Chouteau	Eagle-Virgelle	1,925
Little Rock	Glacier	Bow Island	198,532
Lohman	Blaine	Eagle	94,377
Loring, East	Phillips	Phillips, Bowdoin, Carlile-Greenhorn	990,493
Marias River	Toole	Bow Island	162,485
Middle Butte	Toole	Bow Island	54,842
Miners Coulee	Toole	Sunburst, Swift, Bow Island	364,319
Mount Lily	Liberty	Madison	23,469
O'Briens Coulee	Liberty	Bow Island	276,366
Phantom	Toole	Sunburst, Swift	321,887
Phantom, West	Toole	Sunburst	224,871
Plevna	Fallon	Judith River	2,434
Police Coulee	Toole	Bow Island	27,123
Prairie Dell	Toole	Bow Island, Swift	639,383
Prairie Dell, West	Toole	Swift	15,158
Prairie Dell, South	Toole	Bow Island, Sunburst, Swift	204,834
Rapelje	Stillwater	Eagle-Virgelle, Judith River, Claggett	114,065
Rattlesnake Coulee	Toole	Bow Island	102,461
Red Rock Area	Hill	Eagle	178,786
Rocky Boy	Hill	Eagle	37,231
Rudyard	Hill	Sawtooth	463,443
Sage Creek	Liberty	Blackleaf	235,633
Sandwich	Liberty	Swift	1,461
Sawtooth Mountain	Blaine	Judith River, Eagle	741,690
Shelby	Toole	Bow Island, Sunburst	32,578
Shelby, Old	Toole	Bow Island	78,871
Sherard	Blaine, Chouteau	Judith River, Eagle	251,984
Sherard Unit	Chouteau	Judith River, Eagle	71,876
Sherard Area	Blaine	Eagle	84,496
Snoose Coulee	Liberty	Bow Island	51,144
Soberup Coulee	Pondera	Bow Island	2,328
Spring Coulee	Hill	Sawtooth	201,166
Strawberry Creek	Toole	Bow Island	8,737
Swanson Creek	Phillips	Phillips	817,774
Three Mill	Blaine	Eagle	39,003
Tiber	Toole	Bow Island	98,800
Tiger Ridge	Blaine, Hill	Judith River, Eagle	9,340,366
Tiger Ridge, North	Blaine	Eagle	4,505
Trail Creek	Liberty, Toole	Bow Island, Sunburst	136,414
Two Forks	Blaine	Eagle	667
Utopia	Liberty	Sawtooth	172,756
Vandalia	Valley	Eagle, Bowdoin	132,302
West Butte	Toole	Madison, Bow Island, Sawtooth	52,654
West Butte Shallow	Toole	Bow Island	16,760

**GAS PRODUCTION DATA—1982 (CONTINUED)**  
**14.73 PSIA @ 60°F**

<b>Field</b>	<b>County</b>	<b>Producing Formation</b>	<b>1982 Marketed MCF</b>
Whitlash .....	Liberty .....	Swift, Bow Island, Kootenai .....	431,584
Whitlash, West .....	Toole .....	Sunburst .....	9,885
Williams .....	Pondera .....	Bow Island .....	268,350
Willow Ridge .....	Toole .....	Bow Island .....	255,020
<b>SUBTOTAL NATURAL GAS</b>			<b>44,282,577</b>

**ASSOCIATED MARKETED  
GAS PRODUCTION DATA—1982**

<b>Field</b>	<b>County</b>	<b>Producing Formation</b>	<b>1982 Marketed MCF</b>
<b>Associated Gas</b>			
Anvil .....	Roosevelt .....	Red River .....	222,254
Autumn .....	Valley .....	Mission Canyon .....	4,324
Bainville, North .....	Roosevelt .....	Red River, Winnipegosis .....	77,883
Bainville, West .....	Roosevelt .....	Red River .....	9,473
Big Muddy Creek .....	Roosevelt .....	Interlake, Red River .....	43,911
Blue Hill .....	Richland .....	Red River .....	16,307
Brorson .....	Richland .....	Red River .....	37,485
Brorson, South .....	Richland .....	Red River .....	38,073
Cabin Creek .....	Fallon .....	Mission Canyon, Interlake, Red River .....	395,308
Canal .....	Richland .....	Red River .....	19,042
Charlie Creek, East .....	Richland .....	Red River .....	19,978
Clark's Fork .....	Carbon .....	Frontier .....	11,585
Clark's Fork, South .....	Carbon .....	Greybull .....	9,148
Clear Lake .....	Sheridan .....	Mission Canyon, Red River .....	80,257
Colored Canyon .....	Sheridan .....	Red River .....	65,408
Comertown .....	Sheridan .....	Red River .....	23,717
Crane .....	Richland .....	Red River .....	180,978
Dagmar .....	Sheridan .....	Red River .....	34,647
Dagmar, North .....	Sheridan .....	Red River .....	1,579
Diamond Point .....	Roosevelt .....	Red River .....	69,525
Divide .....	Sheridan .....	Mission Canyon .....	38,646
Dry Creek .....	Carbon .....	Virgelle .....	130,096
Dry Creek, West .....	Carbon .....	Greybull .....	700
Dugout Creek .....	Richland .....	Red River .....	19,493
Dwyer .....	Sheridan .....	Ratcliffe .....	26,160
Eagle .....	Richland .....	Mission Canyon .....	49,842
Elk Basin .....	Carbon .....	Tensleep .....	598,368
Epworth .....	Richland .....	Red River .....	8,993
Fairview .....	Richland .....	Winnipegosis, Red River .....	402,431
Fairview, East .....	Richland .....	Red River .....	50,823
Fishhook .....	Sheridan .....	Red River .....	104,747
Fort Gilbert .....	Richland .....	Red River, Madison .....	10,259
Four Mile Creek .....	Richland .....	Red River .....	18,058
Four Mile Creek, West .....	Richland .....	Red River .....	12,415
Golden Dome .....	Carbon .....	Eagle, Greybull .....	14,392
Goose Lake .....	Sheridan .....	Ratcliffe .....	3,789
Goose Lake, West .....	Sheridan .....	Red River .....	9,008
Gypsy Basin .....	Pondera .....	Sunburst, Madison .....	48,793
Hay Creek .....	Richland .....	Mission Canyon, Red River .....	5,217
Highview .....	Pondera .....	Madison .....	5,641
Honker .....	Sheridan .....	Madison .....	10,226
Katy Lake, North .....	Sheridan .....	Red River .....	211,020
Lambert .....	Richland .....	Red River .....	40,908
Lone Butte .....	Richland .....	Red River .....	2,725
Lonetree Creek .....	Richland .....	Red River .....	91,628

**ASSOCIATED MARKETED  
GAS PRODUCTION DATA — 1982 (CONTINUED)**

			<b>1982</b>
<b>Field</b>	<b>County</b>	<b>Producing Formation</b>	<b>Marketed MCF</b>
Lookout Butte (Cor. Ck.)	Fallon	Interlake, Red River	68,238
Lowell	Sheridan	Red River	7,018
McCabe	Roosevelt	Ratcliffe	13,139
McCabe, East	Roosevelt	Winnipegosis	1,277
Medicine Lake	Sheridan	Red River, Winnipegosis	212,565
Midby	Sheridan	Red River	20,093
Miners Coulee	Toole	Sunburst	701
Missouri Breaks	Richland	Red River	64,640
Mona	Richland	Red River	36,470
MonDak, West	Richland	Madison, Red River	514,473
Mustang	Richland	Red River	40,597
North Antelope	Sheridan	Red River	74
North Fork	Richland	Madison, Red River	17,699
Otis Creek	Richland	Red River	39,552
Otis Creek, South	Richland	Red River	15,712
Otter Creek	Sheridan	Red River	2,323
Oxbow	Roosevelt	Red River	6,766
Pelican	Sheridan	Red River	11,355
Pennel	Fallon	Madison, Silurian, Ordovician	289,861
Pine	Dawson, Prairie, Fallon, Wibaux	Interlake, Mission Canyon, Red River	61,944
Putnam	Richland	Interlake, Mission Canyon, Red River	195,052
Rainbow	Richland	Red River	4,901
Raymond	Sheridan	Mississippian, Nisku, Winnipegosis, Red River	31,930
Reagan	Glacier	Madison	196,517
Red Bank	Roosevelt	Madison, Red River	89,443
Red Bank, South	Roosevelt	Red River	81,673
Red Fox	Roosevelt	Nisku	35
Refuge	Sheridan	Red River	10,231
Reserve	Sheridan	Red River	26,133
Ridgelawn	Richland	Madison, Red River	165,235
Rocky Point	Roosevelt	Red River	57,383
Second Creek	Richland	Red River	102,762
Sidney	Richland	Madison, Red River	30,944
Sidney, East	Richland	Madison	41,777
Singletree	Roosevelt	Red River	7,223
Sioux Pass	Richland	Mission Canyon, Interlake, Red River	83,102
Sioux Pass, East	Richland	Red River	3,092
Sioux Pass, Middle	Richland	Red River	103,592
Sioux Pass, North	Richland	Red River	249,892
Sioux Pass, South	Richland	Red River	3,685
South Fork	Richland	Red River	55,700
Spring Lake, South	Richland	Red River	16,402
Stampede	Richland	Red River	21,518
Target	Roosevelt	Mission Canyon	29,279
Three Buttes	Richland	Mission Canyon, Gunton, Red River	34,462
Vaux	Richland	Mission Canyon, Red River	143,003
West Butte	Toole	Sunburst	20,099
Whitlash	Liberty	Swift	108,185
Windmill	Richland	Red River	586
Wrangler	Sheridan	Red River	28,034
Wrangler, North	Sheridan	Red River	6,837
Wright Creek	Powder River	Muddy	1,119

**SUBTOTAL ASSOCIATED GAS PRODUCED**  
**SUBTOTAL NATURAL GAS MARKETED**

**6,649,583**  
**44,282,577**

**TOTAL GAS MARKETED - 1982**

**50,932,160**

**NATURAL GAS IMPORTED MMCF**

Canada	13,921
Wyoming	9,613
Dakotas	18,048

**41,582 MMCF**

**NATURAL GAS EXPORTED MMCF**

Canada	168
Wyoming	10,808
Dakotas	9,165
Midwest	9,669

**29,810 MMCF**

## REFINERS' YEARLY TOTAL - 1982

COMPANY	BEGINNING STORAGE	MONTANA OIL	N. DAKOTA OIL	WYOMING OIL	CANADA OIL	REFINED STORAGE	ENDING
CONTINENTAL OIL CO.	171,034	2,881,068	—	3,623,902	8,525,328	15,052,624	148,323
EXXON COMPANY	227,999	303,637	—	10,554,762	1,437,637	12,440,751	83,284
FARMERS UNION	212,333	1,290,458	—	3,614,782	5,268,605	10,225,617	160,561
FLYING J OIL	10,553	1,367,852	—	—	—	1,352,646	25,759
KENCO REFINING	10,236	1,271,521	206	—	—	1,266,570	15,393
SIMMONS REFINING	6,724	1,923,968	—	—	170,687	2,093,632	7,307
<b>TOTALS</b>	<b>638,879</b>	<b>9,038,504</b>	<b>206</b>	<b>17,793,446</b>	<b>15,402,257</b>	<b>42,431,840</b>	<b>440,627</b>

## PERCENTAGE OF CRUDE OIL REFINED

	MONTANA	CANADA	NORTH DAKOTA	WYOMING
Year: 1978	18.51%	44.71%	.14%	36.64%
Year: 1979	17.12%	46.58%	.01%	36.29%
Year: 1980	17.92%	39.42%	.06%	42.60%
Year: 1981	22.40%	30.40%	.04%	47.16%
Year: 1982	21.40%	36.47%	.00%	42.13%

## AVERAGE BARRELS PER DAY

	MONTANA	CANADA	NORTH DAKOTA	WYOMING	TOTAL
Year: 1978	24,240	58,545	190	47,982	130,957
Year: 1979	23,747	64,598	17	50,322	138,684
Year: 1980	21,901	48,162	69	52,050	122,182
Year: 1981	23,812	32,320	40	50,133	106,305
Year: 1982	24,763	42,198	—	48,749	115,710

## REFINING FIVE YEAR COMPARISON

1978	1979	1980	1981	1982
47,738,947	50,619,676	44,718,698	38,801,346	42,234,413

# BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

## STATEMENT OF CRUDE OIL PRODUCTION AND VALUATION—ALL MONTANA FIELDS YEAR 1982 AND ACCUMULATED TOTALS FROM DISCOVERY DATE

FIELD	COUNTY	PRODUCTION YEAR 1982			CUMULATIVE TO DECEMBER 31, 1982	
		BARRELS	VALUE	AVERAGE PRICE	BARRELS	VALUE
Alkali Coulee	Sheridan	4,260	137,291	32.228	12,330	428,747
Andes	Richland	4,198	135,428	33.260	20,471	626,051
Antelope, North	Sheridan	734	24,272	33.068	2,484	85,522
Anvil	Roosevelt	359,983	11,700,887	32.504	1,069,511	30,591,137
Anvil, North	Sheridan	2,444	79,655	32.592	8,890	313,436
Ash Creek	Big Horn	6,886	224,250	32.566	797,720	2,708,509
Autumn	Valley	26,109	855,931	32.783	26,109	855,931
Bainville, North	Roosevelt	157,147	5,120,635	32.585	474,765	16,681,213
Bainville, West	Roosevelt	27,497	887,768	32.286	117,903	3,677,902
Bainville II	Roosevelt	24,548	786,739	32.049	44,700	1,504,150
Bannatyne	Teton	13,111	393,055	29.979	280,149	2,027,973
Bear's Den	Liberty	7,080	218,213	30.821	471,754	2,590,701
Belfry	Carbon	2,229	71,339	32.005	97,046	410,399
Bell Creek	Powder River	2,950,165	95,676,801	32.431	119,527,937	936,907,765
Benrud	Roosevelt	130	4,160	32.000	218,690	744,670
Benrud Area	Roosevelt	538	17,216	32.000	538	17,216
Benrud, East	Roosevelt	51,231	1,678,225	32.758	2,503,631	12,927,578
Benrud, Northeast	Roosevelt	11,204	363,536	32.447	928,762	3,484,305
Berthelote	Toole	574	12,701	22.128	54,893	249,570
Big Gully	Musselshell	3,837	111,315	29.011	89,486	1,235,307
Big Gully, North	Musselshell	977	29,927	30.632	16,777	335,353
Big Muddy Creek	Roosevelt	63,517	2,068,368	32.564	1,027,094	15,956,172
Big Wall	Musselshell	72,729	2,254,744	31.002	7,165,354	27,244,393
Black Diamond	Wibaux	34,548	1,130,860	32.733	48,218	1,609,310
Blackfoot	Glacier	37,378	1,142,085	30.555	1,206,943	6,635,014
Blue Hill	Richland	19,903	627,681	31.537	141,725	2,605,078
Border	Toole	7,344	225,659	30.727	1,345,121	3,621,871
Boulder	Richland	6,584	211,807	32.170	135,264	1,966,908
Bowes	Blaine	118,544	2,827,986	23.856	8,838,828	29,199,845
Box Canyon	Richland	18,171	587,468	32.330	101,853	3,705,418
Bradley	Glacier	5,313	162,535	30.592	232,553	1,242,503
Brady	Pondera	20,775	642,093	30.907	109,725	1,868,328
Bredette	Roosevelt	10,927	362,787	33.201	231,073	2,030,329
Breed Creek	Rosebud	57,077	1,658,943	29.065	599,244	10,974,657
Brorson-Madison	Richland	40,546	1,299,337	32.046	569,250	5,523,110
Brorson-Red River	Richland	56,864	1,833,807	32.249	1,981,003	10,036,081
Brorson, South	Richland	61,754	1,986,256	32.164	1,337,170	11,170,147
Brush Lake	Sheridan	85,443	2,787,492	32.624	2,056,205	13,915,498
Burget	Roosevelt	1,929	63,933	33.143	6,504	228,647
Burget, East	Roosevelt	25,666	828,190	32.268	34,649	1,149,069
Burns Creek	Dawson, Richland	8,393	269,642	32.127	199,657	1,798,398
Burns Creek, South	Richland	21,315	708,042	33.218	21,315	708,042
Cabin Creek	Fallon	1,536,132	46,693,804	30.397	80,890,695	346,776,313
Canal	Richland	96,444	3,095,660	32.098	645,274	6,873,734
Cannonball	Fallon	11,061	362,779	32.798	39,447	1,390,892
Carlyle	Wibaux	32,250	1,051,028	32.590	181,168	4,051,870
Cat Creek	Petroleum, Garfield	76,757	2,501,127	32.585	23,106,881	60,396,309
Charlie Creek	Richland	27,955	919,636	32.897	506,514	8,448,817
Charlie Creek, East	Richland	43,840	1,413,708	32.247	144,636	5,156,309
Charlie Creek, North	Richland	6,902	221,803	32.136	8,643	282,844
Clark's Fork	Carbon	909	28,092	30.904	85,050	313,527
Clark's Fork, North	Carbon	209	6,488	31.041	1,024,608	2,895,208
Clark's Fork, South	Carbon	44	1,408	32.000	80,553	634,021
Clear Lake	Sheridan	202,651	6,621,621	32.675	1,154,139	28,420,388
Colored Canyon	Sheridan	89,585	2,936,148	32.775	429,383	11,477,938
Comertown	Sheridan	289,257	9,348,208	32.318	583,018	20,035,608
Conrad, South	Pondera	2,028	61,669	30.409	139,271	761,053
Cow Creek	McCone	3,540	114,508	32.347	117,583	1,058,547

**CUMULATIVE TO  
DECEMBER 31, 1982**

**PRODUCTION YEAR 1982**

FIELD	COUNTY	AVERAGE			CUMULATIVE TO	
		BARRELS	VALUE	PRICE	BARRELS	VALUE
Cow Creek, East	McCone	69,009	2,244,104	32.519	2,059,431	20,663,695
Crane	Richland	256,992	8,381,794	32.615	601,494	20,449,194
Crocker Springs, East	Pondera	724	21,734	30.020	724	21,734
Culbertson	Roosevelt	3,633	114,861	31.616	172,684	1,046,749
Cupton	Fallon	102,973	3,328,396	32.323	1,676,016	17,345,946
Cut Bank	Glacier, Toole	1,247,718	38,228,832	30.639	155,032,447	569,018,311
Dagmar	Sheridan	57,937	1,902,303	32.834	325,644	6,877,431
Dagmar, North	Sheridan	8,669	283,511	32.704	24,031	843,210
Deadman's Coulee	Roosevelt	78,835	2,552,362	32.376	133,541	4,526,373
Dean Dome	Stillwater	17,138	325,433	18.989	56,211	947,687
Deer Creek	Dawson	4,772	146,949	30.794	2,284,889	6,056,493
Delphia	Musselshell	3,588	110,597	30.824	308,131	1,142,584
Devil's Basin	Musselshell	11,158	344,950	30.915	98,530	1,476,281
Diamond Point	Roosevelt	84,128	2,598,882	30.892	322,032	7,096,621
Divide	Sheridan	303,184	8,694,711	28.678	622,542	20,135,709
Dry Creek	Carbon	14,988	486,975	32.491	4,098,898	8,908,156
Dugout Creek	Richland	24,439	771,979	31.588	55,722	1,887,656
Dwyer	Sheridan	140,159	4,291,809	30.621	6,385,038	27,784,240
Eagle	Richland	231,214	6,749,368	29.191	738,673	18,680,130
Elk Basin	Carbon	640,179	18,272,629	28.543	77,929,432	262,578,901
Elk Basin, Northwest	Carbon	7,923	235,281	29.696	1,206,450	5,027,075
Enid, North	Richland	64,120	2,080,566	32.448	113,461	3,254,407
Epworth	Richland	18,100	585,354	32.340	53,502	1,858,976
Fairview	Richland	299,922	9,767,260	32.566	6,647,418	44,816,205
Fairview, East	Richland	107,843	3,518,054	32.622	175,415	5,905,170
Fairview, West	Richland	25,655	827,784	32.266	41,630	1,409,473
Fertile Prairie	Fallon	38,534	1,231,084	31.948	508,086	3,332,633
Fiddler Creek	Stillwater	724	13,938	19.252	1,089	25,916
Fishhook	Sheridan	220,679	7,231,209	32.768	349,622	11,985,352
Flat Coulee	Liberty	164,440	4,647,074	28.260	3,725,992	28,631,917
Flat Coulee, East	Liberty	168	4,977	29.626	1,054	35,497
Flat Lake	Sheridan	427,684	11,558,160	27.025	12,826,358	78,550,444
Flat Lake Area	Sheridan	7,632	246,147	32.252	7,632	246,147
Flat Lake, South	Sheridan	66,051	1,893,946	28.674	947,544	8,412,015
Flaxville	Daniels	15,747	507,368	32.220	15,747	507,368
Fort Gilbert	Richland	195,836	6,409,321	32.728	1,460,424	16,143,890
Four Mile Creek	Richland	23,983	787,506	32.836	267,525	4,590,283
Four Mile Creek, West	Richland	36,266	905,489	24.968	174,771	3,757,134
Fox Creek	Richland	34,506	1,131,935	32.804	156,370	3,533,921
Fox Creek, North	Richland	3,883	124,400	32.037	36,567	901,906
Frannie	Carbon	6,996	197,875	28.284	731,867	2,145,137
Fred & George Creek	Toole	200,172	6,154,488	30.746	12,241,759	64,898,264
Frog Coulee	Richland	11,697	378,714	32.377	105,674	3,410,657
Froid, South	Roosevelt	9,783	311,060	31.796	185,898	1,497,357
Gage	Musselshell	10,922	347,210	31.790	599,417	2,337,863
Gas City	Dawson	124,782	4,016,233	32.186	9,295,056	38,963,255
Girard	Richland	4,101	131,695	32.113	214,189	912,819
Glacier, East	Glacier	3,674	113,541	30.904	14,910	502,353
Glendive	Dawson	149,963	4,723,835	31.500	11,606,234	43,641,313
Glendive, South	Dawson	2,048	67,455	32.937	2,048	67,455
Golden Dome	Carbon	5,582	185,992	33.320	47,533	377,518
Goose Lake	Sheridan	214,905	6,217,846	28.933	7,699,159	42,335,407
Goose Lake, West	Sheridan	99,259	3,201,798	32.257	99,259	3,201,798
Gossett	Richland	7,590	238,265	31.392	14,490	488,842
Graben Coulee	Glacier	87,900	2,570,460	29.243	1,528,742	13,763,374
Grandview	Liberty	1,372	41,965	30.587	4,615	48,948
Grandview, East	Liberty	4,291	130,519	30.417	21,021	561,856
Green Coulee	Sheridan	27,492	893,270	32.492	41,694	1,396,390
Gumbo Ridge	Rosebud	54,076	1,695,012	31.345	449,110	7,772,406
Gunsight	Roosevelt	20,824	659,413	31.666	23,149	744,897
Gypsy Basin	Pondera	30,882	939,616	30.426	341,634	4,689,132
Hard Pan	Pondera	391	11,850	30.307	603	19,270
Hardscrabble Creek	Richland	3,873	123,979	32.011	11,411	348,778

**PRODUCTION YEAR 1982**

**CUMULATIVE TO  
DECEMBER 31, 1982**

FIELD	COUNTY	AVERAGE			BARRELS	VALUE
		BARRELS	VALUE	PRICE		
Hawk Creek	Musselshell	860	27,060	31.465	8,604	80,119
Hawk Haven	Richland	2,141	69,396	32.413	4,905	165,970
Hay Creek	Richland	30,471	987,961	32.423	1,072,513	6,237,927
Hiawatha	Musselshell	26,520	838,748	31.627	1,406,367	6,754,811
Hibbard	Rosebud	21,618	689,636	31.901	202,151	1,593,163
High Five	Rosebud	150,853	4,779,023	31.680	1,394,668	28,235,718
Highview	Pondera	5,471	157,860	28.854	19,282	526,964
Honker	Sheridan	14,742	473,911	32.147	41,025	1,424,118
Horse Creek	Liberty	959	26,302	27.426	7,524	138,762
Howard Coulee	Musselshell	6,039	186,484	30.880	109,278	1,475,612
Injun Creek	Rosebud	37,862	1,225,366	32.364	68,596	1,555,919
Intake II	Richland	148,007	4,848,413	32.758	198,465	6,620,801
Ivanhoe	Musselshell	9,654	304,323	31.523	4,446,946	12,985,555
Jim Coulee	Musselshell	114,714	3,609,476	31.465	3,701,479	32,074,219
Katy Lake, North	Sheridan	435,176	14,207,626	32.648	1,357,989	47,557,711
Keg Coulee	Musselshell	52,827	1,666,639	31.549	4,980,285	22,339,299
Keg Coulee, North	Musselshell	19,281	606,889	31.476	393,245	3,697,286
Kelley	Musselshell	10,098	318,844	31.575	906,340	4,038,299
Kevin-Sunburst	Toole	613,859	18,781,016	30.595	74,399,438	194,87 3,371
Kicking Horse	Toole	156	4,992	32.000	1,077	37,154
Kincheloe Ranch, West	Rosebud	70,468	2,225,168	31.577	237,399	7,766,264
Kippen, East	Toole	18	576	32.000	108	3,606
Krug Creek	Dawson	4,381	139,640	31.874	15,288	538,314
Laird Creek	Liberty	9,131	279,263	30.584	532,278	3,668,041
Lambert	Richland	89,247	2,865,096	32.103	148,173	4,973,985
Lambert, North	Richland	10,673	347,886	32.595	29,082	1,009,726
Landslide Butte	Glacier	2,562	78,902	30.797	46,576	426,253
Lariat	Sheridan	1,414	46,371	32.794	3,599	123,587
Leary	Powder River	29,612	937,072	31.645	445,410	4,924,853
Ledger	Pondera	29	928	32.000	29	928
Little Beaver	Fallon	399,639	11,964,392	29.938	10,048,624	59,720,059
Little Beaver, East	Fallon	112,592	3,361,547	29.856	4,776,722	22,447,529
Little Phantom	Toole	5,675	171,947	30.299	34,951	713,930
Little Wall Creek	Musselshell	300,475	9,455,648	31.469	2,459,112	41,044,075
Lodge Grass	Big Horn	5,673	168,874	29.768	264,707	1,088,971
Lone Butte	Richland	11,756	385,820	32.819	335,232	4,965,871
Lone Rider	Roosevelt	997	32,386	32.483	2,505	86,700
Lonetree Creek	Richland	135,269	4,370,947	32.313	2,715,564	25,813,358
Lonetree Creek, West	Richland	13,157	423,471	32.186	13,157	423,471
Long Creek	Roosevelt	4,828	157,963	32.718	44,033	823,806
Long Creek, West	Roosevelt	46,338	1,495,327	32.270	315,483	6,643,713
Lookout Butte	Fallon	525,401	16,023,680	30.498	20,505,824	102,409,496
Lowell	Sheridan	42,630	1,387,734	32.553	109,139	3,784,809
Lustre	Valley	99,560	3,046,835	30.603	99,560	3,046,835
Mackay Dome	Stillwater	15,010	279,756	18.638	44,620	881,835
Malcolm Creek	Sheridan	5,134	164,550	32.051	5,134	164,550
Mason Lake	Musselshell	72,739	2,359,071	32.432	659,831	15,653,444
Mason Lake North	Musselshell	1,757	55,156	31.392	13,686	323,557
McCabe	Roosevelt	30,357	1,027,342	33.842	120,100	3,208,984
McCabe, East	Roosevelt	711	24,301	34.178	3,282	115,589
McCabe, South	Roosevelt	4,396	141,929	32.286	4,396	141,929
Meander	Pondera	639	19,530	30.563	1,543	49,257
Medicine Lake	Sheridan	296,052	9,669,354	32.661	1,474,490	50,535,927
Melstone	Musselshell	193,758	6,039,049	31.168	2,663,417	26,075,4 65
Midby	Sheridan	33,181	1,063,119	32.040	49,338	1,658,197
Miners Coulee	Toole	2,623	80,558	30.712	146,664	975,437
Missouri Breaks	Richland	85,742	2,740,314	31.960	85,742	2,740,314
Mon Dak West	Richland	779,752	25,455,004	32.645	4,864,516	117,831,498
Mona	Richland	39,249	1,249,727	31.841	39,249	1,249,727
Monarch	Fallon	127,592	3,915,543	30.688	4,612,367	25,853,135
Mosser Dome	Yellowstone	8,531	256,536	30.071	308,133	1,622,529
Mustang	Richland	58,370	1,891,363	32.403	247,819	8,534,903
Nohly	Richland	50,231	1,609,251	32.037	1,061,221	11,545,978
North Fork	Richland	37,281	1,205,183	32.327	264,383	5,327,061



**PRODUCTION YEAR 1982**

**CUMULATIVE TO  
DECEMBER 31, 1982**

FIELD	COUNTY	PRODUCTION YEAR 1982			CUMULATIVE TO DECEMBER 31, 1982	
		BARRELS	VALUE	AVERAGE PRICE	BARRELS	VALUE
Ollie	Fallon	35,635	1,169,897	32.830	138,875	4,991,146
Otis Creek	Richland	59,724	1,900,358	31.819	702,371	8,355,389
Otis Creek, South	Richland	22,660	730,219	32.225	22,660	730,219
Otter Creek	Sheridan	5,229	171,286	32.757	18,687	662,684
Outlook	Sheridan	116,322	3,767,670	32.390	7,693,309	39,072,776
Outlook, South	Sheridan	5,553	181,478	32.681	670,245	2,323,545
Outlook, West	Sheridan	10,162	332,866	32.756	584,097	2,987,408
Oxbow	Roosevelt	8,755	282,813	32.303	157,558	3,167,547
Palomino	Roosevelt	207,722	6,783,162	32.655	398,602	13,627,142
Pasture	Dawson	2,836	89,918	31.706	2,836	89,918
Pasture Creek	Dawson	1,914	62,789	32.805	1,914	62,789
Pelican	Sheridan	20,612	671,951	32.600	87,841	3,018,612
Pennel	Fallon	3,101,867	94,231,618	30.379	52,840,052	456,238,923
Pete Creek	Toole	1,519	46,173	30.397	11,312	235,320
Phantom	Toole	2,295	70,560	30.745	40,019	656,902
Pine	Dawson, Prairie, Fallon, Wibaux	1,934,527	59,194,592	30.599	95,647,491	415,775,108
Plentywood	Sheridan	7,372	242,64	32.914	10,254	343,927
Pondera	Pondera, Teton	416,085	12,694,337	30.509	22,496,200	99,017,024
Pondera Coulee	Teton	2,686	73,341	27.305	38,086	460,508
Poplar, East	Roosevelt	264,776	8,595,423	32.463	43,928,022	148,737,889
Poplar, Northwest	Roosevelt	99,764	3,239,038	32.467	1,535,393	20,292,073
Poplar, Southeast	Roosevelt	3,169	103,091	32.531	158,882	984,829
Prairie Elk	McCone	3,698	113,836	30.783	63,762	867,997
Prichard Creek	Toole	4,735	144,929	30.608	116,382	1,292,604
Putnam	Richland	289,763	9,427,439	32.535	2,568,611	57,836,456
Rabbit Hills	Blaine	59,404	1,435,319	24.162	587,170	8,473,587
Ragged Point	Musselshell	38,379	1,186,333	30.911	3,233,914	19,085,882
Rainbow	Richland	33,459	1,072,361	32.050	33,459	1,072,361
Rattler Butte	Rosebud	256,995	8,197,370	31.897	459,276	12,772,335
Rattlesnake Coulee	Toole	889	26,563	29.880	87,794	616,790
Raymond	Sheridan	234,837	7,685,041	32.725	3,233,034	52,502,931
Raymond, North	Sheridan	9,081	291,064	32.052	9,081	291,064
Raymond, Northeast	Sheridan	1,933	45,733	23.659	118,671	1,662,435
Reagan	Glacier	248,193	7,590,735	30.584	7,310,669	54,221,734
Red Bank	Roosevelt	279,408	9,040,805	32.357	625,090	21,486,881
Red Bank, South	Roosevelt	92,977	3,078,004	33.105	115,244	3,814,819
Red Creek	Glacier	68,341	2,112,489	30.911	5,454,855	20,265,132
Red Fox	Roosevelt	2,145	68,438	31.906	369,805	1,440,501
Redstone	Sheridan	4,991	162,702	32.599	453,433	1,851,974
Refuge	Sheridan	15,235	499,464	32.784	77,297	2,838,931
Repeat	Carter	10,008	273,659	27.344	494,108	2,377,238
Reserve	Sheridan	82,032	2,646,024	32.256	1,464,231	11,121,256
Richey	Dawson, McCone	13,043	420,728	32.257	1,955,899	6,181,259
Richey, East	Dawson	6,824	222,203	32.562	8,621	281,504
Richey, Southwest	McCone	5,592	180,655	32.306	1,885,257	5,974,562
Ridgelawn	Richland	634,571	20,518,219	32.334	1,460,721	48,850,326
RipRap Coulee	Roosevelt	46,083	1,448,527	31.433	230,982	4,877,208
River Bend	Richland	30,085	968,286	32.185	51,382	1,687,528
Rocky Point	Roosevelt	73,580	2,385,243	32.417	166,216	4,556,624
Roscoe Dome	Carbon	2,215	39,104	17.654	9,121	237,248
Rosebud	Rosebud	14,084	446,153	31.678	382,452	5,501,260
Royals	Dawson	44,091	1,452,358	32.940	89,323	3,099,068
Royals, South	Dawson	2,012	65,843	32.725	2,666	88,733
Rudyard	Hill	3,085	88,786	28.780	10,304	218,885
Runaway	Teton	209	6,354	30.402	1,764	62,210
Rush Mountain	Sheridan	16,147	527,506	32.669	406,493	2,666,804
Salt Lake	Sheridan	14,051	457,205	32.539	332,478	2,691,910
Sand Creek	Dawson	21,615	665,569	30.792	2,264,059	9,869,935
Second Creek	Richland	50,884	1,640,704	32.244	931,358	13,649,783
Sheepherder	Musselshell	2,387	75,754	31.736	64,590	1,008,859
Shotgun Creek	Roosevelt	14,823	482,400	32.544	90,947	655,016
Shotgun Creek, North	Roosevelt	7,246	237,698	32.804	86,583	1,474,181
Sidney	Richland	264,120	8,524,209	32.274	1,992,077	36,584,623

**PRODUCTION YEAR 1982**

**CUMULATIVE TO  
DECEMBER 31, 1982**

FIELD	COUNTY	AVERAGE			BARRELS	VALUE
		BARRELS	VALUE	PRICE		
Sidney, East	Richland	91,292	2,944,897	32.258	261,243	9,142,444
Singletree	Roosevelt	11,297	336,797	29.813	70,455	1,379,271
Sioux Pass	Richland	168,417	5,413,933	32.146	2,426,160	36,033,996
Sioux Pass, East	Richland	5,982	193,171	32.292	53,199	964,562
Sioux Pass, Middle	Richland	125,354	4,051,567	32.321	858,513	19,863,182
Sioux Pass, North	Richland	377,795	12,288,538	32.527	1,988,639	45,721,781
Sioux Pass, South	Richland	31,764	1,012,541	31.877	31,764	1,012,541
Snoose Coulee	Liberty	498	15,936	32.000	678	21,857
Snyder	Big Horn	4,544	129,054	28.401	436,253	1,373,273
Soap Creek	Big Horn	56,858	1,466,538	25.793	2,235,838	11,524,686
Soap Creek, East	Big Horn	9,728	238,560	24.523	66,834	1,324,371
South Fork	Richland	75,571	2,427,341	32.120	643,818	12,227,320
Spring Lake	Richland	29,567	961,578	32.522	751,067	4,166,230
Spring Lake, South	Richland	20,555	671,367	32.662	38,155	1,297,593
Stampede	Richland	47,905	1,474,085	30.771	88,072	2,934,391
Stampede, North	Richland	1,092	35,182	32.218	1,092	35,182
Stensvad	Musselshell, Rosebud	15,355	465,794	30.335	10,051,492	26,699,256
Sumatra	Rosebud	690,390	21,726,573	31.470	39,604,870	232,826,756
Sunnyhill	Sheridan	15,379	498,956	32.444	115,587	2,805,654
Target	Roosevelt	190,167	5,975,998	31.425	197,112	6,219,504
Three Buttes	Richland	54,634	1,796,967	32.891	123,150	4,181,566
Tippy Buttes	Musselshell	16,032	469,353	29.276	59,683	1,898,307
Tule Creek	Roosevelt	102,735	3,332,210	32.435	7,573,599	30,545,895
Tule Creek, East	Roosevelt	7,797	252,288	32.357	1,974,998	6,303,538
Tule Creek, South	Roosevelt	4,121	131,443	31.896	682,285	2,983,281
Two Medicine Creek	Glacier	90	2,880	32.000	10,249	370,951
Two Waters	Richland	21,373	669,573	31.328	66,298	2,357,887
Utopia Swift	Liberty	43,939	1,348,180	30.683	275,327	5,966,413
Vaux	Richland	340,388	10,821,615	31.792	1,444,607	34,976,738
Vida	McCone	2,871	93,052	32.411	258,624	1,028,716
Volt	Roosevelt	78,545	2,549,728	32.462	2,500,832	15,253,826
Wagon Box	Musselshell	797	23,176	29.079	22,836	308,159
Wagon Trail	Richland	23,855	750,598	31.465	23,855	750,598
Weed Creek	Yellowstone	3,655	115,885	31.706	589,042	2,243,214
Weldon	McCone	16,802	550,635	32.772	7,023,718	19,700,062
West Butte	Toole	11,650	356,106	30.567	253,621	2,138,332
West Fork	Roosevelt	2,260	74,153	32.811	6,671	229,773
Whitlash	Liberty	208,782	6,401,256	30.660	4,754,478	36,955,082
Whitlash, West	Liberty	5,732	173,869	30.333	76,698	822,849
Willow Creek, North	Musselshell	10,208	311,303	30.496	291,614	2,401,944
Willow Ridge	Toole	3,952	122,137	30.905	27,371	658,814
Willow Ridge, South	Toole	2,958	94,656	32.000	3,054	97,968
Wills Creek, South	Fallon	28,504	867,263	30.426	926,995	5,681,838
Windmill	Richland	3,915	126,220	32.240	3,915	126,220
Winnett Junction	Musselshell	54,360	1,702,990	31.328	625,572	10,556,686
Wolf Springs	Yellowstone	12,940	401,955	31.063	4,594,167	12,853,770
Woodrow	Dawson	17,002	530,717	31.215	1,062,070	4,185,056
Wrangler	Sheridan	42,323	1,382,058	32.655	173,808	6,260,972
Wrangler, North	Sheridan	12,258	402,393	32.827	54,773	2,023,210
Wright Creek	Powder River	9,462	306,143	32.355	232,037	2,198,815
Yates	Wibaux	10,615	346,325	32.626	21,266	719,110
Misc. Abandoned Fields		—	—	—	2,679,297	9,945,318
<b>TOTALS</b>		<b>30,917,311</b>	<b>966,344,510</b>	<b>31.256</b>	<b>1,109,606,295</b>	<b>6,360,694,694</b>

## MISCELLANEOUS ABANDONED FIELDS AS OF DECEMBER 31, 1982

FIELD	BARRELS	DOLLARS	FIELD	BARRELS	DOLLARS
Bainville .....	284,518	\$ 989,773	Red Water .....	21,995	814,563
Bascom .....	27,830	65,674	Richey Area West .....	11,062	403,670
Big Wall, North .....	7,218	116,302	Rough Creek .....	3,599	10,583
Blackfoot, East .....	810	1,730	Scobey .....	3,916	145,674
Blackleaf .....	26	884	Smoke Creek .....	100,305	221,361
Bloomfield .....	7,163	18,589	Snowden .....	1,938	70,607
Bredette, North .....	488,554	1,160,009	Viking .....	160	1,957
Butchers Creek .....	579	20,259	Wibaux .....	23,580	42,945
Bynum .....	5,971	15,320	Wolf Creek .....	1,979	2,275
Cadmus .....	1,173	3,381	Woman's Pocket .....	3,526	7,461
Chelsea Creek .....	11,548	43,764	Yellowstone .....	39,405	72,518
Coalridge .....	18,018	698,829	Wildcat, Blaine County .....	9,324	19,667
Dry Creek West .....	5,042	148,829	Wildcat, Carbon County .....	6,368	13,559
Four Buttes .....	41,067	122,184	Wildcat, Daniels County .....	3,508	7,787
Gage, Southwest .....	16,289	37,397	Wildcat, Dawson .....	277	10,456
Gettysburg .....	304	11,987	Wildcat, Fallon County .....	10,683	29,485
Goose Lake East .....	4,522	168,087	Wildcat, Glacier County .....	48,231	124,918
Jack Creek .....	1,310	3,275	Wildcat, Hill County .....	161	1,804
Katy Lake .....	1,056	2,872	Wildcat, Liberty County .....	3,254	19,148
Lake Basin .....	473,639	661,111	Wildcat, McCone County .....	12,575	41,467
Lakeside .....	487	18,489	Wildcat, Musselshell County .....	925	1,841
Laurel .....	1,017	36,458	Wildcat, Powder River County .....	27,445	65,594
Line Coulee .....	57,789	138,495	Wildcat, Richland County .....	339,856	818,099
Lisk Creek .....	1,939	70,297	Wildcat, Roosevelt County .....	86,154	236,920
Mineral Bench .....	161,727	869,341	Wildcat, Sheridan .....	51,711	547,362
Musselshell .....	17,289	114,737	Wildcat, Stillwater County .....	11,283	13,365
Pine, East .....	19,349	233,378	Wildcat, Toole County .....	35,809	118,817
Pole Creek .....	169,726	277,956	Wildcat, Wibaux County .....	8,388	25,416
Rattlesnake Butte .....	5,920	6,592			
			TOTALS .....	2,679,297	9,945,318

# 1982 — OIL AND GAS DISCOVERIES, EXTENSIONS, \* AND NEW PAY ZONES \* \*

COUNTY	OPERATOR-WELL NAME AND LOCATION	FIELD	TOTAL DEPTH	INITIAL POTENTIAL Oil B/D, Gas MCF/D	PRODUCING FORMATION	DATE COMPLETED	
CARBON	Montana Power Company, Hamburg 13-29, 29-6S-21E	West Dry Creek*	6,565	34	0	3rd Frontier	7-29-82
CHOUTEAU	Viking Resources Corp., State 1X Ranch 1, 16-27N-14E	Little Creek**	3,987	0	0	Upper Eagle	8-25-82
	Monterrey Petroleum, Huffman 1-18, 18-26N-3E	Hardpan*	975	0	1125	Bow Island	12-1-81
DANIELS	Sun Exploration, Roos #1, 2-35N-50E	Flaxville	10,500	96	0	Mission Canyon	8-14-82
DAWSON	Davis Oil Co., Buxbaum #1, 27-19N-56E	South Burns Creek	11,540	133	0	Red River	10-23-81
	Placid Oil Co., State, 16-1, 16-21N-52E	Pasture Creek**	10,838	110	0	Red River	9-26-82
	Placid Oil Co., Pfaff 9-9, 9-21N-52E	Pasture Creek	11,034	75	0	Interlake	6-30-82
	Southland Royalty Co., Federal 1-24, 24-15N-55E	South Glendive	10,300	362	0	Red River	10-5-82
PONDERA	Oxy Petroleum Inc., Field 1-34,34-29N-6W	E. Crocker Springs	3,485	0	0	Madison	3-28-82
RICHLAND	Bass Enterprises, Smart Federal 22-44, 22-22N-59E	Eagle**	12,448	160	0	Red River	4-5-82
	Cenex, Bradley 1-5, 5-21N-58E	Fox Creek*	12,194	75	0	Red River	12-24-81
	Coquina Oil Corp, Coastal BNRR #1, 27-25N-56E	Hardscrabble Creek	12,550	121	0	Red River	9-30-81
	Coquina Oil Corp, Simonsen #1, 12-24N-56E	W. Lonetree Creek	12,540	88	0	Red River	10-9-81
	Luff Exploration, Lawson Ranch M-20, 20-27N-57E	Missouri Breaks	12,140	233	0	Red River	3-24-82
	Pennzoil, Putnam #1, 17-23N-57E	South Fork**	9,675	6	0	Mission Canyon	2-18-82
	Flare Energy Corp BN 9-27, 27-25N-54E	Spring Lake**	10,850	90	0	Bakken	4-24-82
	Coastal Oil & Gas, COGC/ALAQ BN #1, 35-21N-59E	Wagontrail	12,609	675	0	Red River	5-9-82
	Flare Energy Corp. BN 10-23, 23-23N-54E	N. Enid Area	11,820	50	0	Red River	9-1-82
	Husky Oil Co., Miller State 1-8, 8-26N-54E	Mona	11,320	210	0	Red River	1-7-82
	Al-Aquitaine Exploration Ltd., Bahls 12-1, 1-23N-56E	Rainbow	12,551	220	0	Red River	6-7-82
	Universal Resources, Lanark-State 1-23, 23-27N-56E	Unnamed	12,550	17	0	Ratcliffe	8-11-82
	Union Texas Pet. Corp., Wick 34-1, 34-25N-56E	W. Lonetree Creek*	12,605	52	0	Red River	7-13-82
ROOSEVELT	Flare Energy Corp, Snakebutte Ranch #2, 22-29N-58E	East Burget	12,717	46	0	Nisku	5-9-82
	Puma Petroleum, Olson 1-31, 31-29N-57E	South McCabe*	10,540	41	0	Nisku	5-29-82
	Donald C. Stawson, Jacobson 34-1, 34-30N-57E	Shotgun Creek*	12,481	80	0	Red River	1-6-82
	Sun Exploration, B. Mattingly 1, 9-29N-59E	Red Bank*	9,750	13	0	Mission Canyon	4-15-82
SHERIDAN	Diamond Shamrock, Walter Goetz 44-10, 10-36N-57E	Comertown**	9,050	342	0	Nisku	9-17-82
	Diamond Shamrock, Lagerquist 12-14, 14-36N-57E	Comertown**	6,807	75	0	Ratcliffe	10-17-81
	Everett Drilling Ventures, Lindblom 2-31, 31-37N-54E	North Raymond	10,248	228	0	Red River	7-1-82
	Donald C. Stawson, Christiansen 12-1, 12-32N-58E	Dwyer**	11,605	518	0	Red River	9-4-82
	Patrick Petroleum Corp., Goff 1-32, 32-35N-57E	W. Goose Lake Area	11,200	155	0	Red River	12-18-82
	Tipperary Oil & Gas Corp., Krogstad 1-27, 27-34N-53E	Malcolm	10,934	63	0	Mission Canyon	4-13-82
	The Anschutz Corp., Torpen 9-30, 30-37N-57E	Flat Lake Area	10,570	100	0	Nisku	4-11-82
STILLWATER	Eastern American Energy, Wepler 1, 10-4N-19E	Big Coulee*	2,515	0	250	2nd Cat Creek	12-22-82
TOOLE	Jerry L. Branch, Grant 4-33, 33-31N-1E	Unnamed	598	0	227	Upper Bow Island	6-14-82
	Jerry L. Branch, Wilson 1-21, 21-31N-1W	Unnamed	975	0	55	Upper Bow Island	4-29-82
VALLEY	Sun Oil Co., Guanche Federal 1, 5-31N-43E	Autumn	8,400	265	0	Mission Canyon	1-30-82
	Exxon Corp., Tieszen-Towes 1, 3-30N-44E	Lustre	7,270	254	0	Charles C	7-1-82

# 1982 - SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1982		No. of Inj. Wells	Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF		
Ash Creek Crow Tribal	Shannon	Mobil	Waterflood	Peripheral	—	254	5	1	Produced
Ash Creek Su (Mt Portion)	Shannon	Mobil	Waterflood	Peripheral	10/64	1,119	130	4	Produced
Bell Creek Tertiary Pilot	Muddy	Gary Energy	Polymer Inj	5 Spot	7/76	4,378	1,938	4	Surface
Bell Creek Tertiary Incentive	Muddy	Gary Energy	Polymer Inj	5 Spot	12/80	17,838	31,332	30	Surface
Bell Creek A	Muddy	Gary Energy	Waterflood	Peripheral	7/70	137,160	34,931	37	Madison
Bell Creek B	Muddy	Gary Energy	Waterflood	Peripheral	10/77	41,597	10,059	14	Madison
Bell Creek C	Muddy	Gary Energy	Waterflood	Peripheral	9/71	25,758	7,674	5	Madison
Bell Creek D	Muddy	Gary Energy	Waterflood	Peripheral	1/72	30,317	5,716	10	Madison
Bell Creek E	Muddy	Gary Energy	Waterflood	Peripheral	1/72	23,485	8,756	26	Madison
Bell Creek Ranch Creek	Muddy	Gary Energy	Waterflood	Peripheral	3/71	39,677	4,059	8	Madison
Big Wall BSU	Upper Tyler	Texaco	Waterflood	Random	8/66	28,655	5,750	2	Produced
Big Wall Quinnell	Tyler	Texaco	Waterflood	UK	—	4,289	2,280	1	UK
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	1,202	650	3	Madison
Border New	Cut Bank	P&M Petroleum	Waterflood	Random	—	—	—	1	Madison
Border Old	Cut Bank	P&M Petroleum	Waterflood	Random	6/73	1,015	400	3	Madison
Cabin Creek	Siluro Ord	Shell	Waterflood	Semi Peripheral	6/59	214,055	28,575	27	Produced
Cat Creek East Dome	Ellis Sand	Hoss	Waterflood	Semi Peripheral	7/7	904	260	4	Third Cat Creek
Cat Creek Mosby Dome	Swift	Cenex	Waterflood	Random	7/67	5,475	716	3	Third Cat Creek
Cat Creek Mosby Arnsden	Arnsden	Cenex	Waterflood	Random	6/71	304	80	1	Third Cat Creek
Cat Creek Unit 1	1st Cat	Cenex	Waterflood	Semi Peripheral	10/62	6,719	403	2	Third Cat Creek
Cat Creek Unit 1	2nd Cat	Cenex	Waterflood	Semi Peripheral	10/62	8,034	1,403	3	Third Cat Creek
Cat Creek Unit 2	1st Cat	Cenex	Waterflood	Semi Peripheral	12/59	9492	77	1	Third Cat Creek
Cat Creek Unit 2	2nd Cat	Cenex	Waterflood	Semi Peripheral	12/59	10,650	1,151	3	Third Cat Creek
Cut Bank Dahlquist	Cut Bank	Union Oil	Waterflood	Random	11/79	20	0	1	Madison
Cut Bank Lander A	Lander Sand	Phillips	Waterflood	Random	4/65	1,890	244	2	Madison
Cut Bank Marina	Cut Bank	P & M Petroleum	Waterflood	5 Spot	6/72	2,075	0	0	Madison
Cut Bank McGuiness	Madison	Union Oil	Waterflood	Random	12/62	5,960	978	1	Madison
Cut Bank N. Central	Cut Bank	Phillips	Waterflood	5 Spot	5/78	3,273	1,805	17	Madison
Cut Bank N. East	Moulton	Fair	Waterflood	5 Spot	6/63	5,835	128	2	Madison
Cut Bank N. West	Cut Bank	Phillips	Waterflood	5 Spot	1/62	17,822	1,323	11	Madison
Cut Bank S. Central	Cut Bank	Union Oil	Waterflood	5 Spot	5/63	41,385	4,425	29	Madison
Cut Bank S. East	Cut Bank	Texaco	Waterflood	5 Spot	4/62	77,023	3,102	25	Madison
Cut Bank S. West	Cut Bank	Phillips	Waterflood	5 Spot	9/62	108,404	12,827	71	Madison & Recycled
Cut Bank Tesoro	Cut Bank	Damson Oil	Waterflood	5 Spot	9/71	5,653	1,025	12	Madison & Recycled
Cut Bank Tweedy	Cut Bank	P&M Petroleum	Waterflood	5 Spot	6/72	1,155	149	?	Madison
Cut Bank Two Medicine	Cut Bank	Conoco	Waterflood	Random	12/67	53,210	5,307	46	Madison & Recycled
Darling	Cut Bank	P&M Petroleum	Waterflood	Random	2/67	—	—	—	Madison
Darling North	Moulton	Buttes Resources	Waterflood	Random	2/68	2,472	—	—	Produced
Darling South	Moulton	Buttes Resources	Waterflood	Random	2/67	7,548	—	—	Madison
Dean Dome	Greybull	Eastern Am Energy	Steam Inj	Cyclic	8/81	15	—	1	Surface
Dwyer	Charles	Phillips	Waterflood	Peripheral	10/68	4,713	2,666	5	Madison
Eik Basin	Frontier	Amoco	Waterflood	Crestal	12/72	90,381	8,750	9	Produced
Eik Basin N. West	Tensleep	Arco	Waterflood	Semi Peripheral	5/76	10,231	378	2	Produced
Flat Coulee	Swift	Phillips	Waterflood	Peripheral	2/72	7,855	2,036	14	Eagle
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	127,449	45,520	24	Produced
Frannie	Tensleep	Conoco	Lpg Inj	Random	11/70	69,312	29,703	26	Produced
Fred & George Creek	Sunburst	Fulton	Waterflood	Random	7/76	34,058	8,608	2	Madison & Eagle
Gas City	Red River	Shell	Waterflood	Semi Peripheral	10/69	12,996	41	1	Mission Canyon
Goose Lake	Ratcliffe	Cotton Petroleum	Waterflood	Semi Peripheral	1/73	13,649	5,863	5	Produced
Gumbo Ridge	Tyler B	Milestone Petroleum	Waterflood	Semi Peripheral	6/80	868	962	2	Produced Cat Creek
Jim Coulee	Tyler	McAlester Fuel	Waterflood	Semi Peripheral	7/72	12,087	3,276	5	Produced Cat Creek
Keg Coulee	Tyler	Buttes Resources	Waterflood	Semi Peripheral	8/66	4,246	1,143	2	Madison
Keg Coulee Tyler	Tyler	Juniper Petroleum	Waterflood	Semi Peripheral	12/69	3,609	—	—	Produced
Keg Coulee Unit	Tyler	Bison Operating	Waterflood	Semi Peripheral	1/70	7,530	—	—	Madison
Kelley	Tyler B	McAlester Fuel	Waterflood	Random	7/69	3,553	516	1	3rd Cat Creek
Kevin Sunburst	Sunburst	Texaco	Waterflood	Random	8/64	11,981	268	1	Madison
Kevin Sunburst Homestake	Sunburst	Petro Lewis	Waterflood	Random	8/64	6,944	835	7	Produced & WSW
Laird Creek	Swift	Milestone Petroleum	Waterflood	Semi Peripheral	2/77	802	1	2	WSW
Little Beaver	Red River	Shell Oil	Waterflood	Semi Peripheral	8/66	14,875	195	12	Produced
Little Beaver East	Red River	Shell Oil	Waterflood	Semi Peripheral	4/65	37,793	7,017	17	Produced
Lookout Butte Coral Creek	Red River	Shell Oil	Waterflood	Semi Peripheral	4/67	33,394	5,834	13	Minnelusa
Monarch	Siluro Ord	Shell Oil	Waterflood	UK	—	5,263	667	1	UK
Pennel	Stoney Mtn & RR	Shell Oil	Waterflood	Random	8/69	106,428	42,046	55	Dakota & Produced
Pine S. A	Siluro Ord	Shell Oil	Waterflood	Semi Peripheral	3/59	18,441	50,612	25	Fox Hills & Produced
Pine N. C&D	Red River	Shell Oil	Waterflood	Semi Peripheral	3/68	19,663	2,404	9	Lodgepole

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1982	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF			
Pine Fox Hills	Fox Hills	Shell Oil	Waterflood	Semi Peripheral	—	44,364	1,866	1	UK
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	527	323	1	Eagle
Ragged Point Tyler A	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/66	8,587	370	5	Cat Creek
Ragged Point S. West	Tyler	Petro Lewis	Waterflood	UK	10/82	52	1,679	3	WSW
Reagan Dome	Madison	Union Oil	Waterflood	Random	7/73	2,840	1,049	4	Produced
Red Creek	Cut Bank	Exxon	Waterflood	5 Spot	6/65	16,290	2,492	5	Madison
Richey S. West	Dawson Bay & Interlake	Arco	Waterflood	Random	12/65	2,639	128	1	WSW
Roscoe Dome	Lakota	E. Am. Energy	Steam Inj	UK	—	5	157	1	Surface (1 month)
Stensvad	Tyler	Tomahawk Oil	Waterflood	Semi Peripheral	12/63	28,340	264	1	Produced
Sumatra Central	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	114,433	26,636	18	Madison & Produced
Sumatra Grebe	Tyler	Cenex	Waterflood	Random	6/75	552	88	1	Madison & Produced
Sumatra N. East	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	7,733	1,337	4	Madison & Produced
Sumatra Sawyer	Tyler	Buttes Resources	Waterflood	Semi Peripheral	6/8	743	611	2	Madison
Sumatra S. East	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/69	17,241	3,184	5	Madison
Sumatra West	Tyler	Canoco	Waterflood	Semi Peripheral	10/68	39,275	9,718	10	Produced
Sumatra W. Kincheloe	Krider	Exeter	Waterflood	Semi Peripheral	—	1,475	2,700	3	Krider
Tippy Buttes	Tyler	True Oil	Waterflood	Random	—	17	90	1	Dakota
Winnett Junction	Tyler	Petro Lewis	Waterflood	Random	10/77	902	1,364	2	Produced & WSW

# OIL AND GAS FIELDS

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>ALKALI COULEE</b> Red River (Ord.)	1	320-acre spacing units; well location no closer than 660' from unit boundary and no closer than 1650' from well producing from the same pool. (Order 77-81).	None
<b>ALMA</b> Greenhorn (U.Cret.) Blackleaf & Bow Island (L.Cret.)	2	640-acre spacing units. Location to be no closer than 990' from spacing unit boundary. (Order 19-77).	None
<b>ALMA, NORTH</b> Blackleaf (L.Cret.)		Single spacing unit; (Order 95-82).	None
<b>AMANDA</b> Swift (U.Jur.) Cut Bank (L.Cret.)	1 1	320-acre spacing units for gas with one well per horizon from the base of the Swift to the surface to be located no closer than 660' from unit boundary. Spacing unit to consist of two contiguous quarter sections lying within one or two governmental sections. (Order 76-79).	None
<b>ANDES</b> Red River (Ord.) Mission Canyon (Miss.)	1	Statewide.	None
<b>ANTELOPE COULEE</b> Blackleaf (L.Cret.)	3	Statewide.	None
<b>ANTELOPE, NORTH</b> Red River (Ord.)	1	Statewide.	None
<b>ANVIL</b> Red River (Ord.) Nisku (Dev.) Ratcliffe (Miss.)	8 1 1	Statewide.	Produced water disposed into the Dakota formation (Order 12-A-82)
<b>ANVIL, NORTH</b> Ratcliffe (Miss.) Red River	1	Statewide.	None
<b>ARCH APEX</b> Bow Island (L.Cret.) Gas Swift (U.Jur.) (Shut-in) Sunburst (L.Cret.) Oil & Gas	21 2 7	330' from legal subdivision; 2400' from any other drilling or producible gas well producing from the same reservoir; 75' topographic tolerance. (Order 4-60) Sometimes called Colorado Blackleaf pool. (Swift) Statewide.	None
<b>ASH CREEK</b> Shannon (U.Cret.) (Shut-in)	3 1	Spacing waived within unitized portion of field except no well may be drilled closer than 660' from unit boundary. (Order 4-65).	Waterflood started October, 1964 (Orders 22-64,15-66)
<b>AUTUMN</b> Mission Canyon (Miss.)	1	Statewide.	Produced water disposed into Dakota formation (Order 112-A-82)
<b>BADLANDS</b> Eagle (U.Cret.) Gas (Shut-in)	10 2	Drilling and spacing units allow one well per governmental section to be located anywhere within a section but no closer than 990' to a section line. (Order 22-78).	None
<b>BAINVILLE</b> Red River (Ord.) (Shut-in)	1	Statewide.	None
<b>BAINVILLE II</b> Red River	1	320-acre spacing units; no well closer than 660 feet to the unit boundaries. (Order 36-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>BAINVILLE, NORTH</b>			
Winnepegosis (Dev.)	2	320-acre spacing units to consist of two governmental quarter sections located in either one or two governmental sections. Wells to be located no closer than 660' to unit boundary and no closer than 1650' to any well producing from the same formation. (Order 84-79). Board Order 84-79 is amended to permit a tolerance of 150' from the well location requirements of said order for topographic purposes. (Order 39-80).	None
Red River (Ord.)	7		
<b>BAINVILLE, WEST</b>			
Madison (Miss.)	1	320-acre spacing units to consist of two governmental quarter sections that may be in either one or two governmental sections. Location to be no closer than 660' to the unit boundary or closer than 1650' to another producing well within the field. (Orders 19-78, 42-79). 320-acre spacing units aligned in east-west direction with permitted well to be no closer than 660' to unit boundary (Order 57-80).	None
Red River (Ord.)	2		
<b>BANNATYNE</b>			
Swift (U.Jur.)	17	Center of 10-acre tracts, 50' topographic tolerance. Commingling permitted. (Order 20-58).	Pilot waterflood of Swift suspended in 1963.
Sun River (U.Miss.) (Shut-in)	3		
<b>BATTLE CREEK</b>			
Eagle (U.Cret.) Gas	27	Statewide.	None
<b>BEARS DEN</b>			
Swift (U.Jur.) Oil	9	Statewide.	None
<b>BELFRY</b>			
Tensleep (Penn.)	1	Statewide.	None
<b>BELL CREEK</b>			
Muddy (L.Cret.) Oil & Gas	175	Originally 40-acre spacing units with location 660' from unit boundary with 150' tolerance for topographic reasons only. (Orders 37-67, 39-67, 50-67, 1-69, 17-70). Field now unitized. Tertiary program, (Order 25-80).	Six areas unitized (Unit "A", "B", Ranch Creek, "C", "D", and "E"). Floods used Madison water. (Orders 7-70, 23-70, 8-71, 26-71, 35-71, 36-71.)
Gas (Shut-in)	1		
Oil (Shut-in)	136		
<b>BELL CREEK SOUTHEAST</b>			
Muddy (L. Cret.) Gas (Shut-in)(TA)	2	160-acre spacing units, wells 660' from spacing unit boundary. (Order 31-71).	None
	1		
<b>BENRUD</b>			
Nisku (Dev.)	2	160-acre spacing units with permitted location within a 1320' square in center of quarter section. (Order 6-65).	Water disposal into Judith River formation. (Order 64-62.)
<b>BENRUD, EAST</b>			
Nisku (Dev.)	3	Same as Benrud Field. (Order 6-65).	Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73.)
<b>BENRUD, NORTHEAST</b>			
Nisku (Dev.)	1	Same as Benrud Field. (Order 6-65).	Water disposal into Judith River formation. (Order 32-66.)
<b>BERTHELOTE</b>			
Sunburst (L.Cret.)	1	Wells located 330' from lease lines; 660' between wells with no more than one well per governmental quarter-quarter section. (Order 18-66).	None
<b>BIG COULEE</b>			
3rd Cat Creek (L.Cret.) Gas	8	Statewide.	None
(Shut-in)	1		
Morrison (U. Jur.) Gas	1		



Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>BIG GULLY</b> L. Tyler (Penn.)	3	Statewide.	None
<b>BIG GULLY, NORTH</b> L. Tyler (Penn.)	1	Statewide.	None
<b>BIG MUDDY CREEK</b> Interlake (Sil.) (Shut-in) Red River (Ord.) Madison	1 3 2	One well per 320-acre spacing unit with well no closer than 660 feet from boundary of four east-west units. (Order 4-75).	None
<b>BIG ROCK</b> Blackleaf (L. Cret.) Gas	41	640-acre spacing units for Blackleaf "A" formation. Location to be no closer than 990' to any governmental section line. (Order 31-78).	None
<b>BIG WALL</b> Amsden (Penn.)  Tyler (Penn.) (Shut-in)	2  9 7	Spaced by old statewide spacing; 330' from lease or property line, 990' between wells in same reservoir. (Order 12-54).	Previous disposal into Tyler "A" stopped in 1961. Waterflood of Tyler "B" sand started August, 1966. (Order 22-66.) Excess produced water disposed into the Tyler "B" formation. (Order 13-A-77.)
<b>BILLS COULEE</b> Sunburst (L. Cret.) Madison (Miss.) Gas (Shut-in)	1 2	Field without restrictions except that no well may be drilled closer than 330' from the exterior boundary of the field. (Order 22-80).	None
<b>BLACK BUTTE</b> Eagle (U. Cret.) Gas	2	320-acre spacing units consisting of either the N/2 and S/2 or E/2 and W/2 of the section with well location to be no closer than 990' from a section line nor closer than 660' to the interior boundary. (Order. 134-80).	None
<b>BLACK COULEE</b> Eagle (U. Cret.) Gas	5	320-acre spacing units; well to be located no closer than 990' from unit boundary. (Order 6-73). Well location to be no closer than 660' to eastern boundary of Black Coulee Field. (Order 37-79). Field extension. (Order 71-79).	None
<b>BLACK DIAMOND</b> Red River (Ord.)	2	320-acre spacing units; well location no closer than 660' from unit boundary. (Order 147-81).	None
<b>BLACKFOOT</b> Cut Bank (L. Cret.) Madison (Miss.) (Shut-in) Sunburst (L. Cret.)	6 1 1	One well only per 40-acre spacing unit; 300' tolerance from center of spacing unit. Dual completion in Cut Bank and Madison with administrative approval. (Order 3-57).	Waterflood started November, 1976. (Order 34-76.)
<b>BLACKFOOT GAS FIELD</b> Bow Island (Cret.)	0	Single spacing unit. (Order 51-82).	None
<b>BLACKFOOT-SHALLOW GAS</b> Dakota (L. Cret.)	9	640-acre spacing units; one well per section per producing horizon above the Kootenai with location to be no closer than 990' to unit boundaries. (Order 121-80).	None
<b>BLACKLEAF CANYON</b> Sun River (Miss.) Gas	1	Single spacing unit with Blackleaf Federal 1-A as designated well. (Order 84-81).	None
<b>BLACKLEAF UNIT</b> Sun River (Miss.)	3	Well spacing requirements set forth in 82-11-201 MCA and Board Rule 36.22.702 are suspended provided no well drilled to be closer than 990' from unit boundary. (Order 47-81).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>BLACKJACK</b>			
Sunburst (L. Cret.) Gas	14	One gas well per 160 acres, no closer than 660' from boundary of each unit. (Order 3-69). Statewide spacing. Order 3-69 amended to include Blackleaf in spacing and field rules for gas. (Order 4-74). Blackleaf gas pooled. (Order 3-75).	None
Swift (U. Jur.) Gas & Oil (Shut-in)	2		
Blackleaf (U. Cret.) Gas			
<b>BLOOMFIELD</b>			
Interlake and Red River (Ord.)	0	320 acre spacing units consisting of two contiguous governmental quarter sections which need not be in the same section; wells located no closer than 660' to spacing unit boundaries. (Order 38-83).	None
<b>BLUE HILL</b>			
Red River (Ord.)	2	Statewide.	None
<b>BORDER</b>			
Cut Bank (L. Cret.) Oil & Gas (Shut-in)	3	Oil: Unitized into New and Old Border fields. Unitized 6-1-73. (Orders 8-73, 9-73).	Waterflood approved. Orders 8-73, 9-73, 28-73.)
Cut Bank (L. Cret.) Gas	2		
		Gas: 330' from boundary of legal subdivision. 2,400' between wells in same formation on same lease. 75' topographic tolerance. (Order 7-54).	
<b>BOULDER</b>			
Red River (Ord.)	1	Statewide spacing. (Order 16-71).	None
<b>BOWDOIN &amp; AREA</b>			
Bowdoin & Phillips sands in Colorado Shale (U. Cret.) Gas (Shut-in)	507	One well per quarter section not less than 1000' from lease boundary or less than 2000' from any gas well in same horizon. (Order 29-55). Unitized 1958. Delineated: (Order 3-72). One additional well in each 640-acre spacing unit no closer than 990' to spacing unit boundary in Whitewater and Ashfield Units. (Order 41-82).	Produced water injected into Phillips Sand-Ashfield unit. (Order 10-A-77.)
	75		
<b>BOWES</b>			
Eagle (U. Cret.) Gas (Shut-in)	33	660' from boundary of legal subdivision, 1320' from other wells in same formation. 75' topographic tolerance. (Order 23-54). Order 23-54 amended by establishing 160-acre Eagle spacing units in Sec. 5, 6, 7, 8, 17, 18 31N-19E. (Order 44-75).	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61.) Water from Madison.
	7		
Sawtooth ( M. Jur.) Oil (Shut-in)	50	330' from lease or property line, 990' between wells in the same formation. (Order 13-54).	
	24		
<b>BOX CANYON</b>			
Red River (Ord.)	2	Statewide.	None
<b>BOX ELDER</b>			
Nisku (Dev.)	1	Statewide.	None
<b>BRADLEY</b>			
Cut Bank (L. Cret.) Gas (Shut-in)	1	Statewide.	None
	1		
Madison (Miss.)	1		
Sunburst (L. Cret.) (Shut-in)	1		
<b>BRADY</b>			
Sunburst (L. Cret.) (Shut-in)	16	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62). Field enlargement. Operators may commingle production from Burwash and Sunburst formations in Section 16. (Order 86-81).	None
	1		
<b>BREDETTE</b>			
Charles	1	Statewide.	None
<b>BREED CREEK</b>			
Tyler (Penn.) (Shut-in)	4	Statewide.	None
	2		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>BRORSON</b>			
Madison Canyon (Miss.) Oil & Gas	7	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River). (Order 5-69). Field enlargement. (Order 25-82). Gas to Brorson Field Plant.	Produced water injected into Dakota formation. (Order 129-A-81.)
Red River (Ord.) Oil & Gas	4		
(Shut-in)	1		
<b>BRORSON, SOUTH</b>			
Red River (Ord.) Oil & Gas	3	One well per 160-acre unit, no closer than 660' from unit boundary. (Order. 26-68). Gas to Brorson Field Plant. Reduced Field Area. (Order 26-77).	None
(Shut-in)	1		
Madison	2		
<b>BROWN'S COULEE</b>			
Judith River (U. Cret.) Gas	1	One well per 160-acre unit with well location no closer than 660' from unit boundary. Commingling permitted with administrative approval. (Order 7-74).	None
Eagle (U. Cret.) Gas			
<b>BROWNS'S COULEE, EAST</b>			
Eagle (U. Cret.) Gas	3	Statewide.	None
(Shut-in)	4		
<b>BRUSH LAKE</b>			
Red River (Ord.) Oil & Gas	5	320-acre spacing with initial nine spacing units described in (Order 15-71 corrected.)	None
<b>BUFFALO FLAT</b>			
Bow Island (L. Cret.) Gas	5	Statewide.	None
<b>BULLWACKER</b>			
Judith River (U. Cret.) Gas	4	One well per 320-acre spacing unit with well location no closer than 660' from unit boundary and 990' from field boundary. (Order 26-74).	None
(Shut-in)	2		
Eagle-Virgelle (U. Cret.) Gas	30		
(Shut-in)	9		
<b>BURGET</b>			
Red River (Ord.)	1	320-acre spacing units; well location to be no closer than 660' to unit boundary and 1650' from existing well. 150' tolerance for topographic reasons. (Order 25-81).	None
<b>BURGET, EAST</b>			
Madison (Miss.)	3	Statewide.	None
Red River (Ord.)	2		
(Shut-in)	1		
<b>BURNS CREEK</b>			
Red River (Ord.)	2	Statewide.	None
<b>BURNS CREEK, SOUTH</b>			
Red River	1	320-acre spacing units; well location to be no closer than 660' from unit boundary. (Order 2-82).	None
<b>BUTCHER CREEK</b>			
Greybull (L. Cret.)		Statewide.	None
<b>CABIN CREEK</b>			
Unit #1 Interlake & Red River (Siluro-Ord.)	78	Spacing waived and General Rules for (Deviation), (Commingling), and (Dual Completion) are suspended until present Unit Agreement becomes inoperative. (Order 36-62). Many wells produce from both Interlake and Red River by dual completions. Gas through extraction plant.	Waterflood of Siluro-Ordovician (Orders 5-59,15-60 &30-63). Produced water injected into the Mission Canyon (Order60-62).
(Shut-in)	25		
Unit #2 Madison (Miss.)	9		
<b>CAMP CREEK</b>			
Claggett (U. Cret.) Gas	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>CANADIAN COULEE</b>			
Sawtooth (M. Jur.) Gas (Shut-in)	1 2	320-acre spacing units with well location no closer than 660' from unit boundary, and 990' from field exterior boundaries. (Order 18-76).	None
<b>CANADIAN COULEE, NORTH</b>			
Sawtooth (M. Jur.) Gas (Shut-in)	2 2	640-acre spacing units. Location to be no closer than 1650' to section line. (Order 15-74).	None
<b>CANAL</b>			
Red River (Ord.) Madison (Miss.)	1 4	320-acre spacing units consisting of east half and west half of governmental section. (Order 34-70).	None
<b>CANNON BALL</b>			
Red River (Ord.)	1	Statewide.	None
<b>CARLYLE</b>			
Red River (Ord.)	2	320-acre spacing units; to consist of either the N/2 and S/2 or E/2 and W/2 of section or lots corresponding thereto. Well location to be no closer than 660' to unit boundary nor closer than 1650' to any well drilling or producing from the same pool. (Order 39-79).	Produced water disposed into Dakota formation. (Order 126-A-81.)
<b>CAT CREEK,</b>			
Kootenai (L. Cret.) (3 Sands) (3 Sands) (Shut-in)	42 40	220' from lease or property line, 440' from every other well in same formation. (Order 17-55). Three separate producing areas, East, Mosby and West Domes. Field enlargement upper and lower	Three Kootenai, two Ellis, and one Amsden waterflood in progress. Orders 17-56, 18-59, 13-62, 8-68, 38-70, 11-71.) Water from Third Cat Creek sand. Waterflood modified. (Order 29-74.)
Morrison (U. Jur.) Ellis (U. Jur.) (Shut-in)	2 20 2	Brindley wells in S1 T15N R28E are to be no closer than 350' from other Morrison wells in said section. (Order 101-82).	
Amsden (Penn.) Swift (U. Cret.)	2 11	Statewide.	
<b>CEDAR CREEK</b>			
Judith River (U. Cret.) Eagle (U. Cret.) Gas (Shut-in)	114 15	1200' from legal subdivision line, 2400' from every other well in same formation. (Order 33-54). 320-acre spacing units, wells in center of NW 1/4 and SE 1/4 of each section with 200' topographic tolerance. (Order 1-61). Field extension. (Order 23-76).	None
<b>CHAIN LAKES</b>			
Eagle (U. Cret.) (Shut-in)	3 2	Statewide.	None
<b>CHARLIE CREEK</b>			
Nisku (Dev.) Duperow (Dev.)	1 1	320-acre spacing units, either east-west or north-south at option of operator, located no closer than 660' from spacing unit boundary and no closer than 1650' from another producing well. Spacing units may not cross section lines. (Order 66-76).	None
<b>CHARLIE CREEK, EAST</b>			
Red River (Ord.)	3	Statewide.	None
<b>CHARLIE CREEK, NORTH</b>			
Red River (Ord.) Nisku (Dev.)	2	Single spacing unit. (Order 37-82).	None
<b>CHESTER AREA</b>			
Bow Island (L. Cret.)	1	Statewide.	None
<b>CHINOOK, EAST</b>			
Eagle (U. Cret.)	3	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>CHIP CREEK</b> Eagle-Virgelle (U. Cret.)	3	160-acre spacing units. Location no closer than 660' from spacing unit boundary. (Order 89-76).	None
<b>CLARK'S FORK</b> Frontier (U. Cret.)	1	330' from quarter-quarter section line. 1320' between wells with 75' topographic tolerance. (Order 17-54).	None
<b>CLARK'S FORK, NORTH</b> Lakota (L. Cret.) Gas & Oil (Shut-in)	2 1	160-acre quarter section spacing with location no closer than 660' from spacing unit boundary. (Order 23-75).	None
<b>CLARK'S FORK, SOUTH</b> Greybull (L. Cret.) Oil & Gas	3	160-acre spacing; location no closer than 330' from quarter section line or 1320' from any other well.	None
<b>CLEAR LAKE</b> Red River (Ord.) Madison Nisku	6 4 2	Statewide.	Produced water disposed into Dakota, Muddy, Lakota, & Swift formation. (Orders: 41-A-80, 60-A-80, 91-A-80, 116-A-81, 123-A-81).
<b>COAL COULEE</b> Eagle (U.Cret.) Gas	2	One well per governmental section, to be located no closer than 990' from section line and only one well permitted per formation. (Order 25-78). Amendment to (Order 25-78) provides 320-acre spacing units within certain sections to be designated by the operator. Well to be located no closer than 990' to unit boundary. (Order 36-79).	None
<b>COAL CREEK</b> Eagle (U.Cret.) Gas	2	Statewide.	None
<b>COAL RIDGE</b> Mission Canyon (Miss.)(Shut-in)	1	Statewide.	Produced water injected into the Dakota formation (Order 81-A-79.)
<b>COLORED CANYON</b> Red River (Ord.)	6	Statewide.	None
<b>COMERTOWN</b> Red River (Ord.)	7	320-acre spacing units; permitted well to be no closer than 660' to unit boundary. (Order 35-80). Field enlargement. ( Orders 9-81 and 150-81).	Produced water injected into the Dakota formation (Order 107-A-82)
<b>CONRAD BUTTE</b> (Renamed Ledger)		(See Ledger Field)	
<b>CONRAD SOUTH</b> Dakota (L. Cret.)	2	10-acre spacing units. Wells in center of each unit with 75' topographic tolerance. (Orders 34-62, 31-63).	None
<b>COW CREEK</b> Charles (Miss.)	1	80-acre spacing units, direction at option of operator but wells to be in SW 1/4 and NE 1/4 of each quarter section. (Order 11-69).	None
<b>COW CREEK, EAST</b> Kibbey (Miss.) (Shut-in)	10 1	40-acre spacing units consisting of quarter-quarter section with permitted well to be at center with 150' topographic tolerance. (Order 35-74).	Produced water disposed into Dakota formation. (Order 30-A-75 and 61-A-76.)
<b>CRANE</b> Red River (Ord.) Duperow (Dev.)	1 4	320-acre spacing units consisting of one half of a governmental section with well location to be no closer than 660' from unit boundary and no closer than 1650' to any well drilling or producing from the same pool. (Order 40-79).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>CROCKER SPRINGS, EAST</b> Madison (Miss.)	1	80-acre spacing units to be either the N/2 or S/2 of a regular quarter section. Well to be located in the center of either the NE quarter quarter or the SW quarter quarter section with a 150' topographic tolerance. (Order 68-82).	None
<b>CULBERTSON</b> Red River (Ord.)	1	Statewide in part. Unitized as to SE 1/4 of Section 32, SW 1/4 of Section 33, N 1/2 NW 1/4 of Section 4, and N 1/2 NE 1/4 of Section 5. (Order 29-70).	Produced water disposed into Red River formation (Order 13-A-72.)
<b>CUPTON</b> Red River (Ord.) (Shut-in)	8 2	160-acre quarter section spacing units. Location no closer than 660' from spacing unit boundary. (Order 4-72).	Produced water disposed into Red River formation. (Order 1-A-80.)
<b>CUT BANK</b> Kootenai (L. Cret.) Oil & Gas (Shut-in) Madison (Miss.) Oil (Shut-in) (Gas only) (Shut-in) Cut Bank (L. Cret.) Gas (Shut-in) Sunburst (L. Cret.) Gas (Shut-in) Moulton (L. Cret.) Gas (Shut-in) Bow Island (L. Cret.) Gas	613 211 38 8 48 182 29 3 2 4 2 3	(Kootenai formation includes Moulton, Sunburst, and Cut Bank sands). Oil: 330' from legal subdivision line, 650' between wells in same formation 5-spot on 40-acre tract permitted. 75' topographic tolerance. (Order 10-54). Gas: 330' from legal subdivision, 2400' between wells in same formation. 75' topographic tolerance. (Order 10-54). Sections 20, 29, and 32 of Township 36 North, Range 4 West spaced 320-acres (N 1/2 and S 1/2). (order 26-70). 320-acre spacing units for gas; (Cut Bank) units; (E 1/2 & W 1/2) wells to be located no closer than 330' from legal subdivision line nor less than 2400' from drilling or producible well producing from same reservoir. (Orders 82-76, 6-77). Field extension (Order 3-79). Board Orders No 10-54, 26-70, 6-77, 82-76 and 3-79 amended to include all formations from surface to base of Madison Lime Formation. (Order 45-80).	There are 18 waterfloods in progress. Water from Eagle and Madison, or produced. Produced water disposed into Madison formation. (Orders: 51-65, 52-65, 22-A-74, 55-A-77, 60-A-80, 91-A-80, 123-A-81)
<b>DAGMAR</b> Red River (Ord.)	4	Statewide.	None
<b>DAGMAR, NORTH</b> Red River (Ord.)	1	320-acre spacing units; well location no closer than 660' from unit boundary. (Order 6-81).	Produced water injected into Dakota formation. (Order 124-A-81.)
<b>DARLING</b> (included as part of Cut Bank Field)			
<b>DEADMAN'S COULEE</b> Nisku (Dev.)	4	Statewide.	Produced water injected into Judith River formation. (Order 132-A-81.)
<b>DEAN DOME</b> Greybull (L. Cret.) Gas (Shut-in) Oil	1 4	Statewide. Oil ring below gas cap.	None
<b>DEER CREEK</b> Interlake (Sil.)	1	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Well location in NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance. (Orders 23-55 & 14-59). Commingling of production permitted upon approval of Board Petroleum Engineer. (Order 18-63).	Excess produced water is disposed into Dakota and Lakota formations. (Orders 6-56 & 3-58.)
<b>DELPHIA</b> Amsden (Penn.)	2	Statewide.	None
<b>DEVIL'S BASIN</b> (Heath (U. Miss.) (Shut-in)	4 9	10-acre spacing units; well location to be in the center of each spacing unit with a 75' tolerance permitted for topographic or geologic reasons. (Order 114-80).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>DEVON</b>			
Blackleaf (U. Cret.) Gas (Shut-in)	21	Statewide.	None
Kootenai (L. Cret.) Oil Depleted		Statewide.	
<b>DEVON, SOUTH</b>			
Bow Island (L. Cret.) Gas (Shut-in)	1 10	Drilled on statewide spacing. Unitized for primary production. (Order 28-71, corrected).	None
<b>DIAMOND POINT</b>			
Red River (Ord.)	2	320-acre spacing unit; allowing two wells to produce from the Red River or from commercial production at any depth shallower. (Order 20-80).	None
<b>DIVIDE</b>			
Madison (Miss.)	13	Statewide.	Produced water disposed into Dakota formation (Order 42-A-80, 130-A-81.)
<b>DRY CREEK</b>			
Eagle (U. Cret.) Gas	1	Statewide.	None
Judith River (U. Cret.) (Shut-in)	2	Field redelineated. (Order 8-70).	
Frontier (U. Cret.) Gas (Shut-in)	9 2	Six additional gas storage wells, west end of structure.	
	1		
Greybull (L. Cret.) Gas	2		
Greybull (L. Cret.) Oil (Shut-in)	3 1		
Virgelle Oil	1		
<b>DRY CREEK MIDDLE</b>			
Frontier (U. Cret.) Gas	6	320-acre spacing units consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option	None
Lakota (L. Cret.) Gas (Shut-in)	1	with permitted well no closer than 660' from spacing boundary. (Order 25-75).	
<b>DRY CREEK, WEST</b>			
Greybull (L. Cret.) Oil & Gas (Gas)	1	160-acre spacing units; well location anywhere in spacing unit but no closer than 660' from unit boundary. (Order 43-78). Order 43-78	None
(Shut-in)	1	amended to include Frontier formation. (Order 65-82). Field	
Virgelle (U. Cret.)	1	enlargement. (Order 86-82).	
<b>DUGOUT CREEK</b>			
Red River (Ord.)	1	320-acre spacing units. Well to be no closer than 660' from unit boundary. (Order 22-82).	None
<b>DUNKIRK</b>			
Sunburst (L. Cret.)	22	Only one well may produce from each producing zone, formation, or horizon, but no closer than 990' from section lines. (Order 58-81). Field enlargements. (Orders 104-81 and 66-82).	None
<b>DUNKIRK, NORTH</b>			
Bow Island (L. Cret.) Gas	12	One well per governmental section per zone or horizon. Each producing well to be located anywhere within section but no closer than	None
(Shut-in)	5	990' from section line. (Order 25-77). Field enlargements. (Orders 64-78 and 157-81).	
<b>DWYER</b>			
Madison (Miss.)	11	160-acre spacing units; well location in center of SE 1/4 of spacing units with 175' topographic tolerance. (Orders 25-60, 29-61).	Produced water disposed into Dakota formation. (Order 26-63.)
(Shut-in)	1		Waterflood. (Order 20-68.)
Red River (Ord.)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>EAGLE</b>			
Madison (Miss.)	17	Statewide.	None
Devonian	2		
Red River	1		
<b>EAGLE SPRINGS</b>			
Bow Island (L. Cret.) Gas	6	One well per governmental section per zone, located anywhere but no closer than 990' from section line for all gas zones above the top of the Kootenai. (Order 4-78) Commingling of Swift and Sunburst permissible. (Order 19-79).	None
(Shut-in)	3		
<b>EAST GLACIER</b>			
Greenhorn (U. Cret.)	1	Statewide. 160-acre spacing units. (Order 41-81). Amended to enlarge field and designate 80-acre spacing units with permitted well to be located no closer than 330' to the exterior boundaries. (Order 112-81).	None
<b>ELK BASIN (Mont. Portion)</b>			
Frontier (U. Cret.)	13	Statewide spacing is waived within unit area. (Order 10-61). Gas to Elk Basin gasoline plant.	Frontier: Water injection (Order 1-72.) Embar - Tensleep pressure maintenance by crestal gas injection. Waterflood approved in 1966. (Order 5-66.) Madison: Water Injection (Order 17-61.)
(Shut-in)	7		
Embar-Tensleep (Perm., Penn.)	17		
(Shut-in)	11		
Madison (Miss.)	26		
(Shut-in)	1		
Big Horn (Ord.)	1		
<b>ELK BASIN, NORTHWEST</b>			
Frontier (U. Cret.)		Spacing waived within unitized portion except that bottom of hole be no closer than 330' from unit boundary and there be at least 1320' surface distance between wells in same formation; 75' topographic tolerance. (Orders 43-63, 28-64). Gas to Elk Basin gasoline plant.	Frontier: Waterflood in progress. Embar-Tensleep: Waterflood. (Order 3-67, 6-74.) Madison, produced water.
(Shut-in)	8		
Embar-Tensleep (Perm., Penn.)	3		
(Oil & Gas)			
Madison (Miss.)	1		
<b>ENID, NORTH</b>			
Bakken	2	Spaced for one well field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T23N, R54E. (Order 45-79).	None
Red River (Ord.)	2		
<b>EPWORTH</b>			
Red River (Ord.)	1	Statewide.	None
<b>ETHRIDGE</b>			
Bow Island (L.Cret.) Gas		Statewide, except two wells. (Order 28-65).	None
(Shut-in)	3		
Swift (U.Jur.) Gas	5		
(Shut-in)	2		
<b>ETHRIDGE, NORTH</b>			
Swift (U.Jur.)	2	320-acre spacing units; well location to be no closer than 660' from unit boundaries. Section 2, T33N, R4W is a 640-acre spacing unit. (Order 98-81).	None
<b>FAIRVIEW</b>			
Winnipegosis (Dev.)		160-acre spacing units. Well location anywhere in spacing unit but no closer than 660' from unit boundary. (Orders 48-65, 1-67, 43-67, 44-67). Gas to Fairview plant.	Northwest part of field unitized for gas injection. Gas from Fairview and Bronson fields. (Order 11-70.) Salt water disposal into Dakota. (Orders 9-A-71, 24-A-71.)
Oil & Gas			
(Shut-in)	1		
Red River (Ord.) Oil & Gas	1		
(Shut-in)			
Mission Canyon (Miss.)	9		
(Shut-in)	1		
<b>FAIRVIEW, EAST</b>			
Red River (Ord.)	2	320-acre spacing units; designated well in the north half of Section 28 may be located no closer than 660' from the unit boundary or 1650' from any well producing from the same pool. (Order 76-81).	None



Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>FAIRVIEW, WEST</b> Ratcliffe (Miss.)	1	Statewide.	None
<b>FERTILE PRAIRIE</b> Red River (Ord.)	4	80-acre spacing units consisting of north-south rectangular units. Well location in NW 1/4 and SE 1/4 of quarter section with 75' topographic tolerance. (Orders 3-56, 7-62). Board Orders 3-56 and 7-62 amended to provide well locations for each 80-acre spacing unit to be the center of the SW or NE quarter quarter section of each quarter section with 75' tolerance for surface obstructions. (Order 65-80).	None
<b>FIDDLER CREEK</b> Greybull (L. Cret.)	2	Statewide.	None
<b>FISHHOOK</b> Red River (Ord.)	4	Statewide.	None
<b>FITZPATRICK LAKE</b> Bow Island (U. Cret.)	7	One well per governmental section located no closer than 990' from section line for all gas zones above the top of the Kootenai. (Order 31-79).	None
Gas (Shut-in)	2		
Sunburst (L. Cret.) Gas	1		
<b>FLAT COULEE</b> Bow Island (L. Cret.)	3	330' from boundary of legal subdivision and 1320' from other wells in same reservoir. (Order 16-55).	Waterflood unit and redelineation approved for Swift sandstone. (Orders 13-71, 17-A-71, 22-71.)
Gas (Shut-in)	1		
Dakota (L. Cret.) Gas	2	Statewide, exception. (Order 11-66).	
Swift (Jur.) Gas (Shut-in)	1		
Swift (Jur.) Oil	20	Statewide gas spacing. 40-acre spacing units. Well in center of spacing unit with 150' topographic tolerance. (Orders 16-62, 19-63).	
(Shut-in)	2		
Sawtooth (Jur.) Gas	1	Statewide.	
(Shut-in)	1		
Oil	1		
<b>FLAT COULEE, EAST</b> Sawtooth (M. Jur.) (Shut-in)	1	Statewide.	None
<b>FLAT LAKE</b> Madison (Miss.)	49	160-acre spacing units; well location in center of NE 1/4 of quarter section with 200' topographic tolerance. Wells no closer than 961' to North Dakota state line and no closer than 1600' to Canadian line. (Orders 10-65, amended; 43-65, 23-66, 33-66).	Excess salt water disposed into Muddy, Dakota, or Lakota formations (Orders 39-64, 39-66, 125-A-81.) and into Ratcliffe formation (Order 122-A-81.) Unit operation for eastern part of field. (Order 7-71.) Unit operation for western part of field. (Order 32-74.)
(Shut-in)	11		
Nisku (Dev.)	1		
<b>FLAT LAKE, SOUTH</b> Ratcliffe (Miss.)	9	160-acre spacing units established by (Order 2-67) then modified to provide that the permitted well may be located anywhere within the unit but no closer than 660' to any unit boundary. (Order 49-80).	Excess salt water disposed into Muddy, Dakota, or Lakota. (Order 19-67.)
(Shut-in)	1		
<b>FLAXVILLE</b> Madison (Miss.)	3	160-acre spacing units; permitted well to be no closer than 660' from the exterior boundaries of the unit. (Order 105-82). Order 105-82 amended to provide 150' tolerance for topographic reasons. (Order 124-82).	None
<b>FORT CONRAD</b> Bow Island (U. Cret.)	3	640-acre spacing units; well location to be no closer than 990' from the section line. (Order 19-81). Field enlargement. (Order 118-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>FORT CONRAD AREA</b>			
Bow Island (U. Cret.)	12	Statewide.	None
<b>FORT GILBERT</b>			
Red River (Ord.)	10	160-acre spacing units; well location no closer than 660' from unit boundary with 150' topographic tolerance. (Order 94-81).	Excess produced associated gas reinjected into Duperow formation. (Order 78-81.)
Red River (Ord.) & Mission Canyon (Miss.)	7		
(Shut-in)	1		
<b>FOUR MILE CREEK</b>			
Red River (Ord.)	1	320-acre spacing units. (Order 43-75).	None
<b>FOUR MILE CREEK, WEST</b>			
Red River (Ord.)	2	Statewide.	None
<b>FOX CREEK</b>			
Siluro (Ord.)	2	Statewide.	None
(Shut-in)	2		
<b>FOX CREEK, NORTH</b>			
Mission Canyon (Miss.) Oil & Gas	2	Statewide.	None
(Shut-in)	1		
<b>FRANNIE (Mont. Portion)</b>			
Tensleep (Penn.)	1	10-acre spacing units; well location in center of each unit with 100' topographic tolerance. (Order 35-63).	Unitized for waterflood of Phosphoria-Tensleep formations using produced fluids. (Order 21-70.)
<b>FRED &amp; GEORGE CREEK</b>			
Sunburst (L. Cret.) Oil & Gas	37	Sunburst Oil: 40-acre spacing units; well location in center of unit with 250' topographic tolerance. (Orders 29-63, 1-65, amended by Order 48-77). Sunburst Gas: same as Arch Apex (Order 4-60).	Sunburst waterflood initiated July, 1970, using water from Madison, (Order 13-70) and Eagle.(Order 27-71.) (Order 40-80.)
(Shut-in)	11		
Swift (U. Jur.) Oil & Gas	3		
Madison (Miss.) (Shut-in)	1	Statewide.	
<b>FROG COULEE</b>			
Red River (Ord.)	1	320-acre spacing units; wells to be located no closer than 660' from the unit boundary. (Order 55-79).	None
<b>FRESNO &amp; AREA</b>			
Eagle-Virgelle (U. Cret.) Gas	7	640-acre spacing units, wells located no closer than 990' from unit boundary. One well may be drilled within each spacing unit for each producing horizon within the spacing unit. (Order 14-76). Field enlargement and modification of field rules within certain areas. (Order 52-80).	None
<b>FROID, SOUTH</b>			
Red River (Ord.)	2	Statewide.	None
<b>GAGE</b>			
Amsden (Penn.)	3	40-acre spacing units; well location to be in center of each unit with a permitted tolerance of 150' for topographical or geological reasons. (Order 120-80). Field enlargement. (Order 44-81).	None
(Shut-in)	2		
<b>GAS CITY</b>			
Siluro (Ord.)	7	80-acre spacing units consisting of E 1/2 and W 1/2 of quarter sections; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance. Spacing waived and statewide rules for (Deviation), (Commingling) and (Dual Completion) are waived in unitized portion of field. (Order 29-62).	Excess produced water disposed into Judith River formation. (Orders 32-61, 20-64.) Waterflood using produced water and Madison water. (Order 16-69.) Produced water disposed into Charles "B" formation. (Order 90-A-79.)
(Shut-in)	10		
Madison	2		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>GILFORD, NORTH</b>			
Sawtooth (Jur.) Gas	1	320-acre specified spacing units. One well per unit 660' from boundary, 2640' between wells. (Order 9-58). Boundary reduction. (Order 38-76). Field enlargement. (Order 9-79).	None
<b>GIRARD</b>			
Red River (Ord.) (Shut-in)	1	Statewide.	None
<b>GLENDIVE</b>			
Red River (Ord.) Oil & Gas	7	80-acre spacing units consisting of any two adjacent quarter-quarter sections; wells located in center of NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance. (Orders 27-55, 19-62, 58-62, 20-66).	Excess produced water disposed into Swift, Dakota and Judith River formations. (Orders 16-56, 16-63, 40-A-70, 7-A-72., 8-A-82
<b>GLENDIVE, SOUTH</b>			
Red River (Ord.)	1	Statewide.	None
<b>GOLD BUTTE</b>			
Bow Island (L. Cret.) Gas	1	640-acre spacing, well location any quarter-quarter section cornering on center of section. (Order 26-59). Amended field boundary. (Order 43-77).	None
<b>GOLDEN DOME</b>			
Eagle (U. Cret.) Gas	1	160-acre spacing; 660' from spacing unit boundary. (Order 15-72).	None
(Shut-in)	1	Single spacing unit for Greybull formation. (Order 17-82). Field enlargement and inclusion of Frontier and Greybull formations. (Order 135-82).	
Frontier (U.Cret.)	1		
Greybull (L. Cret.) Oil	1		
<b>GOOSE LAKE</b>			
Ratcliffe (Miss.) Oil & Gas	34	Unitized. (Order 17-72). Reduced field area; (Order 29-77). Unit production curtailment. (Order 45-77).	Excess produced water disposed into Mission Canyon and Dakota formations. (Orders 12-64, 14-66, 12-68.) Produced water disposed into Ratcliffe formation (Order 138-A-80.) Produced water disposed into Dakota formation. (Order 117-A-81.)
(Shut-in)	1		
Red River (Ord.)	1		
<b>GOOSE LAKE, EAST</b>			
Red River (Ord.)	1	320-acre spacing units. Well location no closer than 660' from unit boundary. (Order 20-81).	None
<b>GOOSE LAKE, WEST</b>			
Red River (Ord.)	3	Statewide.	None
<b>GOSSETT</b>			
Mission Canyon (Miss.)	2	Statewide.	None
<b>GRABEN COULEE</b>			
Swift, Cut Bank, Madison	75	40-acre spacing units; well location no closer than 330' from legal subdivision. (Cut Bank and Madison) Oil: 330' from boundary of legal subdivision and 650' from any other well in same reservoir and on same lease. 75' topographic tolerance. (Order 73-62).	Excess produced water disposed into Cut Bank formation. (Order 45-A-75.)
(Shut-in)	8		
<b>GRANDVIEW</b>			
Bow Island-Sunburst (L. Cret.) Gas	7	320-acre spacing units aligned in a north-south direction; well location no closer than 660' to a spacing unit boundary. (Order 49-67).	None
(2 zones) (Shut-in)	2	Dual completion with Bow Island.	
Madison (Miss.) Gas	3		
Swift	2		
(Shut-in)	1		
<b>GRANDVIEW, EAST</b>			
Swift (Jur.)	2	Statewide.	None
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>GREEN COULEE</b> Red River (Ord.) Ratcliffe (Miss.)	2 0	160-acre spacing units for Ratcliffe formation. Well location to be no closer than 660' to unit boundaries with 150' tolerance allowed for topographic or geologic reasons. 320-acre spacing units for the Red River formation with well location to be no closer than 660' to the unit boundary nor closer than 1650' from any well producing from the Red River. (Order 56-81).	None
<b>GREEN COULEE, EAST</b> Red River (Ord.)	2	Single spacing unit. (Order 99-82).	None
<b>GUMBO RIDGE</b> Tyler (L.Penn.)	4	Statewide.	3rd Cat Creek water for waterflood (Order 54-79.)
<b>GUNSIGHT</b> Madison (Miss.)	4	Statewide.	None
<b>GYPSY BASIN</b> Sawtooth, Sunburst, Swift, Madison (Shut-in) Sawtooth, Madison, Sunburst (Gas)	16 8 4	330' from lease lines and 660' between wells in same formation. Only two wells per quarter-quarter section. (Order 7-66). Same as Sunburst. (Sawtooth-Madison) Oil: 40-acre spacing units; wells no closer than 330' from lease line. (Order 7-66). (Sawtooth-Madison) Gas: 160-acre spacing units; well locations in center of any quarter-quarter section in each 160-acre unit, 2340' between gas wells. 150' topographic tolerance. (Order 13-59).	Injection of excessive gas produced with oil into Sunburst gas cap. (Order 6-64.)
<b>HAMMOND (Gas)</b> Muddy (L. Cret.) (Shut-in)	9 2	320-acre spacing units; each unit shall consist of a regular half of a governmental section with well location to be no closer than 660' to a unit boundary nor closer than 990' to the exterior boundaries of the field. (Order 97-80).	None
<b>HARDIN</b> Frontier (U. Cret.) Gas (Shut-in)	27 22	Statewide.	Water disposal into Red River. (Order 20-A-70.)
<b>HARDPAN</b> Bow Island (L. Cret.) (Shut-in) Swift (Jur.) Gas	1 1 15	Spacing one well per section. Well location no closer than 990' from the section boundary. (Order 145-81). Field enlargement. (Order 131-82).	None
<b>HARDPAN AREA</b> Bow Island (L. Cret.)	7	Statewide.	None
<b>HARDSCRABBLE CREEK</b> Red River (Ord.)	2	Statewide.	None
<b>HAWK CREEK</b> Amsden (Penn.)	1	Statewide.	None
<b>HAWK HAVEN</b> Mission Canyon (Miss.)	1	Single 320-acre spacing unit. (Order 91-81).	None
<b>HAVRE</b> Eagle (U. Cret.)	3	Single spacing unit for production of gas. (Order 48-82).	None
<b>HAY CREEK</b> Mission Canyon (Miss.) (Shut-in) Red River (Ord.) (Shut-in)	2 1 1 1	Statewide. 320-acre spacing, any two adjacent quarter sections, direction to be determined by operator. Location no closer than 660' from unit boundary. (Orders 15-69, 27-73). Gas to Brorson plant.	Produced water disposed into Dakota formation. (Order 90-A-80, 129-A-81.)

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>HAYSTACK BUTTE</b>			
Eagle-Virgelle (U. Cret.)	4	640-acre spacing units; one well per each producing horizon above Kootenai. Location no closer than 990' from spacing unit boundary. (Order 85-76). Amended field boundary. (Order 37-77).	None
Bow Island (L. Cret.) (Shut-in)	1		
Kootenai (L. Cret.)			
<b>HIAWATHA</b>			
Tyler (L. Penn.)	3	Statewide.	None
(2 sands)			
(Shut-in)	1		
<b>HIBBARD</b>			
Amsden (Penn.)	1	Statewide.	Produced water disposed into the Amsden formation (Order 9-A-82.)
<b>HIGH FIVE</b>			
Tyler (Penn.)	14	Statewide.	Water disposed into Dakota and Stensvad formations (Orders 33-A-77, 70-A-78.) Unitized & Polymer-Waterflood authorized. (Order 110-80.)
<b>HIGHVIEW</b>			
Madison (Miss.) Oil & Gas	5	160-acre spacing units, located no closer than 660' from spacing unit boundary. 150' topographic tolerance. (Order 84-76). Orders 32-76, 84-76 and 63-82 are amended to provide as follows: 1. Permitted wells to the Moulton, Sunburst, Morrison and Swift formations shall be no closer than 330' from the lease line nor closer than 660' to a permitted well in the same formation with only two such wells per quarter quarter section with a 150' topographic tolerance. 2. Madison: (Gas) 160-acre spacing units with well location to be no closer than 660' from quarter section lines. 3. Madison; (Oil) 40-acre spacing units with permitted location to be no closer than 330' from the lease line with a 150' topographic tolerance. 4. Sawtooth (Oil and Gas), 40-acre spacing units with permitted location to be no closer than 330' from the lease line with a 150' topographic tolerance. (Order 136-82).	None
(Shut-in)	1		
<b>HONKER</b>			
Red River (Ord.)	1	320-acre specified spacing units; permitted well not to be closer than 660' from the unit boundary. (Order 105-80).	None
<b>HORSE CREEK</b>			
Madison (Miss.)	1	Statewide.	None
(Shut-in)	1		
<b>HOWARD COULEE</b>			
Tyler (L. Penn.)	1	Statewide.	Produced water injected into the Piper formation. (Order 69-A-78.)
(Shut-in)	2		
<b>INJUN CREEK</b>			
Tyler	2	Statewide.	None
Stensvad			
<b>INTAKE II</b>			
Red River (Ord.)	4	320-acre spacing units; permitted well to be located no closer than 660' from the unit boundary. (Order 99-81).	None
<b>IVANHOE</b>			
Amsden (L. Penn.)	8	40-acre spacing unit for production from any one common formation; well location in center of unit with 200' topographic tolerance. (Order 7-60 and 13-56).	Waterflood of Tyler B & C sands discontinued. Water disposal into Tyler "A". (Order 8-A-78.)
(Shut-in)	2		
Morrison (U. Jur.) (Shut-in)	2		
<b>JIM COULEE</b>			
Tyler (L. Penn.)	18	Unitized. (Order 18-72). No well closer than 330' from unit boundary.	Waterflood project approved in Tyler Sands (Order 18-72.)
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>KATY LAKE, NORTH</b>			
Red River (Ord.)	8	Statewide.	Produced water disposed into the Dakota formation (Order 15-A-82.)
Mission Canyon	1		
<b>KEG COULEE</b>			
Tyler (Penn.) Oil & Gas	12	40-acre spacing in southwest portion of field except that spacing is waived in unitized portion. (Orders 3-64, 4-64, 23-64). 80-acre spacing in remainder of field with variable pattern. (Orders 11-60, 28-62). 40-acre spacing; W 1/2 E 1/2 and W 1/2 Sec. 35-11N-30E; NW 1/4 Sec. 35-11N-30E; NW 1/4 Sec. 2-10N-30E. (Order 23-72). Topographic tolerance varies from 100' to 250'. (Orders 11-60-, 4-64, 23-64. Buffer zone waived. (Order 16-65). Field reduction. (Order 2-76) Orders 11-60, 4-64 and 2-76 amended by Order 58-76.	Three waterflood units. (Orders 3-64, 28-66, 10-69, 14-69.) Madison water injected.
(Shut-in)	8		
<b>KEG COULEE, NORTH</b>			
Tyler (Penn.)	6	40-acre spacing units; well location in center of spacing unit with 150' topographic tolerance. (Order 46-64). Buffer zone waived. (Order 16-65). Field area amended. (Order 59-76).	None
<b>KEITH AREA</b>			
White Specks (U. Cret.)	15	Statewide.	None
<b>KEITH, EAST</b>			
2nd White Specks (U. Cret.) Gas	10	Statewide, except unitized portions spaced by Order 22-62. Pooling. (Order 19-66).	None
(Shut-in)	2		
Blackleaf (L. Cret.) Gas	12		
(Shut-in)	4		
Sawtooth (Jur.) Gas	5		
(Shut-in)	2		
<b>KELLEY</b>			
Tyler (Penn.)	3	Statewide. 250' topographic tolerance. (Order 15-67).	Waterflood using Third Cat Creek water. (Orders 8-69, 51-76.)
(Shut-in)	1		
<b>KEVIN-SUNBURST</b>			
Sunburst (L. Cret.) Oil	34	Oil: 9 wells per 40-acre tract; only 3 wells on any side of tract with set back at least 220' from line. (Orders 8-54, 28-55). Gas: Well to be no closer than 330' from the boundaries of any legal subdivision line, nor less than 2400' from every other drilling or producible well on the same lease or unit. (Order 83-76).	There are four water floods in operation using Madison water. (Orders 9-64, 17-64, 30-64, 36-65, 29-71.) Sunburst water disposed into Madison (Order 50-76). H <sub>2</sub> S, CO <sub>2</sub> and produced water disposed into Madison. (Order 156-81).
Bow Island-Sunburst (L. Cret.)	317		
(Shut-in)	24		
& Swift (U. Cret.) Gas	24		
Madison (Miss.) Oil & Gas	943		
<b>KEVIN-SUNBURST, NISKU &amp; AREA</b>			
Nisku (Dev.)	1	640-acre spacing units; location no closer than 990' from spacing unit boundary. (Order 83-76).	None
<b>KEVIN-SOUTHWEST</b>			
Bow Island (L. Cret.) Gas	6	320-acre one-half section spacing units lying north-south or east-west at operator's option. Location to be no closer than 660' from unit boundary for Sunburst-Swift formations and all formations above the top of the Kootenai. (Orders 26-78, 47-78, 48-78). Field enlargement. (Orders 96-79, 47-80, 163-81).	None
(Shut-in)	1		
Sunburst (L. Cret.) Gas	7		
Swift (U. Jur.) Gas	1		
Bow Island-Swift	1		
(Shut-in)	1		
Bow Island-Sunburst	2		
<b>KICKING HORSE</b>			
Bow Island (L. Cret.) Gas	12	320-acre spacing with location permitted no closer than 660' from unit boundary and 990' from field boundary. (Order 17-74). Board Order 17-74 is amended to include certain additional lands into field and provide that 320-acre spacing units may be either the N/2 & S/2 or E/2 & W/2 of section. (Order 53-80).	None
(Shut-in)	1		
Sawtooth (Jur.) Gas	1		
Sunburst (L. Cret.)	1		
<b>KINCHELOE RANCH, WEST</b>			
Tyler (Penn.)	4	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>KINYON COULEE</b> Bow Island (L. Cret.)	2	Statewide.	None
<b>KINYON COULEE, SOUTH</b> Bow Island (L. Cret.)	1	Only one well permitted. Well location no closer than 990' from section line. (Order 31-81).	None
<b>KRUG CREEK</b> Red River (Ord.)	1	320-acre spacing units consisting of 2 contiguous quarter sections designated by operator. Well location no closer than 660' from unit boundary or 1650' from existing well. Production may be commingled with board approval. (Order 27-81).	None
<b>LAIRD CREEK</b> Swift (U. Jur.) Oil & Gas	9	Statewide.	Unitized and waterflood authorized in Swift for oil production. (Order 25-74) Commenced 2-25-77.
<b>LAKE BASIN</b> Telegraph Creek (U. Cret.) Eagle-Virgelle (U. Cret.) Gas	20	160-acre spacing units to base of Virgelle; wells no closer than 660' from unit boundary and 990' from field boundary. Commingling permitted after administrative approval. (Order 9-74). Gas from Telegraph Creek pooled. (Order 29-75).	None
<b>LAKE BASIN, NORTH</b> Eagle, Frontier (U. Cret.) Gas (Shut-in) Claggett (Shut-in) Eagle-Virgelle(U.Cret.) Gas (Shut-in) Judith River (U. Cret.) Gas (Shut-in)	2 1 9 1 3 1 5 1	640-acre spacing units consisting of one section. Locations 990' from section line. (Order 3-74). 160-acre spacing units located no closer than 660' from quarter section lines within restricted Sections. (Order 63-76).	None
<b>LAMBERT</b> Red River (Ord.)	4	Statewide.	None
<b>LAMBERT, NORTH</b> Red River (Ord.)	1	Statewide.	None
<b>LANDSLIDE BUTTE</b> Madison (Miss.)	3	Statewide.	None
<b>LAREDO</b> Eagle (U. Cret.) (Shut-in) Judith River (U. Cret.)	29	320-acre spacing with unit consisting of one-half section lying north-south or east-west at operator's option after administrative approval. Well no closer than 990' from unit boundary. (Order 8-74).	None
<b>LARIAT</b> Red River (Ord.)	1	Single well spacing unit for Red River. (Order 57-81).	None
<b>LAUREL</b> Dakota (L. Cret.) (Shut-in)	20	10-acre spacing unit. Well location to be in center of spacing unit with 75' topographic tolerance. (Order 15-62).	Gas from Muddy formation injected into the Dakota approved. (Order 85-79.)
<b>LEARY</b> Muddy (L. Cret.) (Shut-in)	3 1	80-acre spacing with locations in NE 1/4 and SW 1/4 of each quarter section, 200' topographic tolerance. (Orders 12-69, 19-70). Reduced Field Area. (Order 68-76).	None
<b>LEDGER</b> Bow Island (L. Cret.) Gas Sawtooth Oil	40 1	640-acre spacing; one well per section per sand to be located no closer than 990' from section line. Permissible to commingle two or more sands, subject to administrative approval by the Petroleum Engineer. (Order 53-77).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>LEROY</b>			
Judith River-Eagle (Shut-in)	23	320-acre spacing with unit consisting of one-half section lying north-south or east-west at operator's option after administrative approval. Well no closer than 660' from unit boundary and 990' from field boundary. (Order 19-75). Board Order 19-75 amended that a tolerance of 330' for permitted well be allowed for topographic reasons. (Order 72-80).	None
Virgelle (U. Cret.) Gas (Shut-in)	4		
<b>LISCOM CREEK</b>			
Shannon (U. Cret.) Gas (Shut-in)	8	Spacing, one well per 640 acres, with location no closer than 990' from section boundary. (Order 20-72).	None
	1		
<b>LISK CREEK</b>			
Red River (Ord.) (Shut-in)	1	Statewide.	None
<b>LITTLE BEAVER (Mont. Portion)</b>			
Red River (Ord.)	15	Spacing waived and General Rules for (Deviation), (Commingling), and (Dual Completion) are suspended until present Unit Agreement becomes inoperative. (Order 41-62).	Waterflood of the Red River was commenced in August, 1967. (Order 3-66.) Minnelusa water.
<b>LITTLE BEAVER, EAST (Mont. Portion)</b>			
Red River (Ord.) (Shut-in)	9	Same as for Little Beaver. (Order 42-62).	Waterflood of the Red River was commenced in April, 1965. (Order 33-64.)
	4		
<b>LITTLE CREEK</b>			
Eagle-Virgelle (U. Cret.) Gas	1	Statewide.	None
<b>LITTLE PHANTOM</b>			
Sunburst	1	10-acre spacing units; well location to be located anywhere within the spacing unit but no closer than 220' from the exterior boundary lines of the field nor closer than 440' to any well capable of or producing from the Sunburst Sands. (Order 46-81).	None
<b>LITTLE ROCK</b>			
Blackleaf (L. Cret.) Gas	10	320-acre north half and south half spacing units. Well location no closer than 990' from west line of Section 14 and 660' from the remaining unit boundary lines. (Order 40-78). Field enlargement. (Orders 94-79 and 34-80).	None
<b>LITTLE WALL CREEK</b>			
Tyler (Penn.) (Shut-in)	25	Statewide.	Produced water injected into Tyler formation (Orders 54-A-77, 63-A-78, 1-A-81.)
	2		
<b>LODGE GRASS</b>			
Tensleep (Penn.)	1	Statewide.	None
<b>LOHMAN</b>			
Eagle (U. Cret.) (Shut-in)	3	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78).	None
	1		
<b>LONE BUTTE</b>			
Red River (Ord.)	2	320-acre spacing units with well location at least 660' from unit boundary. Not delineated.	None
<b>LONE RIDER</b>			
Ratcliffe (Miss.) Red River (Ord.)	1	Single spacing unit. (Order 120-82)	None
<b>LONETREE CREEK</b>			
Red River (Ord.)	10	320-acre spacing, wells 660' from spacing boundary, 2000' between wells. (Order 29-72). Field reduction. (Order 162-81).	None



Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>LONETREE CREEK, WEST</b> Red River (Ord.)	2	Spacing units shall be south half and north half of Section 12, T24N, R56E. No well closer than 660' from boundary or 1320' from existing well. (Order 73-82).	None
<b>LONG CREEK</b> Madison (Miss.) Charles	1	Statewide.	None
<b>LONG CREEK, WEST</b> Nisku (Dev.)	2	80-acre spacing units comprised of two contiguous quarter quarter sections which may lie in either one or two governmental sections aligned either north-south or east-west with location to be no closer than 330 feet from unit boundary nor less than 1000 feet from any other producing well. (Order 27-77).	None
<b>LOOKOUT BUTTE</b> (Includes Coral Creek Unit) Madison (Miss.)	2	Statewide spacing.	Water disposal into Madison. (Order 68-62.) Waterflood of Silurian-Ordovician approved in 1966. (Order 35-66.) Water from Minnelusa.
(Shut-in)	5		
Interlake, Red River (Sil.-Ord.) (Shut-in)	11	160-acre spacing; well location in center of SE 1/4 of each quarter section with 150 topographic tolerance. (Order 21-62). Coral Creek Unit not subject to spacing rules. Redelineated per Order 7-63.	
<b>LORING UNIT, EAST</b> Bowdoin, Greenhorn, Phillips (L.Colo.)	61	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn and Phillips) exist, a well may be drilled to each discrete formation and may be located no closer than 660' from the unit boundaries. (Order 60-82).	None
<b>LOWELL</b> Red River (Ord.)	4	320-acre spacing units consisting of two contiguous governmental quarter sections which may lie in either one or two governmental sections. Wells to be located no closer than 660' from unit boundary or closer than 1650' to well producing from the same horizon. (Order 104-79).	None
<b>LUSTRE</b> Madison (Miss.)	12	80-acre spacing units consisting of 1/2 of a regular governmental quarter section. Either E 1/2 and W 1/2 or N 1/2 and S 1/2. Well to be located in either NE 1/4 or SW 1/4 with 200' tolerance. (Order No. 19-83).	None
<b>MACKAY DOME</b> Greybull (L. Cret.) Oil	4	Statewide.	None
<b>MALCOM CREEK</b> Mission Canyon (Miss.)	1	Statewide.	None
<b>MARIAS RIVER</b> Bow Island (L. Cret.)	11	One well per section per horizon above the top of the Kootenai. Location to be no closer than 990' from section line. (Order 18-78).	None
<b>MASON LAKE</b> Lakota (L. Cret.) (Shut-in)	15 2	80-acre spacing units consisting of one half of a quarter section lying in either east-west or north-south direction; well location in center of the NE and SW quarter-quarter sections of each quarter section with 75' topographic tolerance. (Order 35-78). Amending Order 35-78 for certain lots designated as spacing units. (Order 66-78). Field enlargement. (Order 16-79).	Produced water disposed into Muddy formation. (Order 3-A-80.)
<b>MASON LAKE, NORTH</b> Amsden (Penn.)	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>McCABE</b> Ratcliffe (Miss.)	3	160-acre spacing units; permitted well to be no closer than 660' from spacing unit boundary. (Order 100-80). 150' tolerance allowed for topographic reasons. (Order 3-81). Board Order No. 100-80 amended to eliminate the requirement of 1650' between wells producing from the Madison Group. (Order 37-81.)	None
<b>McCABE, SOUTH</b> Red River (Ord.)	1	Single spacing unit for the Nisku and Red River formations. (Order 81-82).	None
<b>MEANDER</b> Sunburst (L. Cret.) Oil (Shut-in)	2	40-acre spacing units; well location to be no closer than 330' to the unit boundaries. (Order 30-82).	None
<b>MEDICINE LAKE</b> Red River (Ord.) (Shut-in)	7	320-acre spacing units comprised of any two contiguous governmental quarter sections in either one or two governmental sections.	Produced water disposed into Muddy, Kibby & Dakota formations (Orders 133-A-81., 111-A-82.)
Winnipegosis (Dev.)	1	Well to be located no closer than 660' from unit boundary nor closer than 1650' to any well producing from the same formation. (Order 50-79).	
Ratcliffe-Midale (Miss.)	1		
<b>MELSTONE</b> Tyler (Penn.) (Shut-in)	12 2	Statewide.	Unitized and waterflood pressure maintenance program for Tyler formation. (Order 125-82.)
<b>MELSTONE NORTH</b> Tyler (Penn.)	0	Statewide.	None
<b>MIDBY</b> Red River (Ord.)	1	160-acre spacing units; well location to be no closer than 660' from unit boundary and spacing units designated by Order 24-81.	None
<b>MIDDLE BUTTE</b> Bow Island (Cret.) Gas (Shut-in)	4 1	Orders 3-60, 21-75 amended to delineate field extension and 320-acre spacing units consisting of the E 1/2 and W 1/2 of each section; well location no closer than 990' from the section line and 660' from the interior boundary. (Order 47-77).	None
<b>MINERAL BENCH</b> Charles (Miss.)	1	Statewide.	Water disposal into Dakota-Lakota per (Order 18-65.) Produced water injected into Judith River (Order 110-A-82.)
<b>MINERS COULEE</b> Sunburst (L. Cret.) Oil (Shut-in)	5	Oil: 40-acre units consisting of quarter-quarter sections; well location no closer than 330' from lease or property line and 660' from any other well. (Order 9-66). Order 9-66 amended to comply with Order 5-74).	None
Sunburst-Swift Gas (Shut-in)	3		
Sawtooth (M. Jur.) Gas	2	Gas: 160-acre spacing with wells 990' from unit boundary. (Order 5-74). Sawtooth gas spacing unit. (Order 43-76). Field redelineation. (Order 44-77. Field enlargement. (Order 4-80).	
Bow Island (L. Cret.) Gas (Shut-in)	1		
<b>MISSOURI BREAKS</b> Red River (Ord.)	15 1	320-acre spacing units as specified by Order 97-82.	None
<b>MONA</b> Red River (Ord.)	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>MONARCH</b>			
Madison (Miss.) (Shut-in)	10 3	80-acre spacing units consisting of east and west half of quarter section. Well location in SW 1/4 and NE 1/4 of quarter section. Location within 660' square at center of quarter section. (Order 18-61).	Produced water is disposed into the salt water disposal system for the Pennel Field. Waterflood initiated 12-1-73. (Order 23-73.)
Interlake, Red River (Sil.-Ord.)	6	160-acre spacing units consisting of a quarter section; well location in center of SW 1/4 of each quarter section with 175' topographic tolerance. (Orders 12-59, 4-63).	
<b>MONDAK WEST</b>			
Madison (Miss.)	27	320-acre spacing units for Silurian and Ordovician pools. Units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2. Well location to be no closer than 660' to unit boundary or closer than 1650' to any well drilling or producing from same pool. (Order 42-77).	Produced water injected into Dakota-Lakota. (Order 49-A-78.), and (111-A-80.)
Dawson Bay (Dev.)	1		
Winnepegosis (Dev.)			
Interlake (Sil.)			
Stony Mtn. (Ord.)	1	320-acre spacing units for Madison and Devonian formations. Units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2. Well location to be no closer than 660' from a quarter section line or section line and no closer than 1650' to any well drilling or producing from same pool. (Orders 23-77, 33-78, 51-79)	
Red River (Ord.)	3		
Siluro (Ord.)	2		
<b>MOSBY</b>			
(See Cat Creek)			
<b>MOSSER DOME</b>			
Greybull (L. Cret.)	16	Spacing waived. Future development requires administrative approval of the Board. (Order 27-62).	None
<b>MT. LILLY</b>			
Madison (Miss.) Gas	2	640-acre spacing, well location in approximate center of any of the four quarter-quarter sections adjoining center of section; 250' topographic tolerance. (Order 37-63)	None
<b>MUD CREEK</b>			
Amsden (L. Penn.) (Shut-in)	2	640-acre spacing unit. Well location anywhere in 160-acre tract in center of each 640-acre well spacing unit. (Order 9-63).	None
<b>MUSSELSHELL</b>			
Tyler (L. Penn.) (Shut-in)	1	Statewide.	None
<b>MUSTANG</b>			
Red River (Ord.)	2	Statewide.	None
<b>NEISER CREEK</b>			
Red River		Single spacing unit. (Order 78-82)	None
<b>NOHLY</b>			
Red River (Ord.)	2	Statewide.	None
<b>NORTH FORK</b>			
Red River (Ord.)	1	Statewide.	None
(Shut-in)	1		
Mission Canyon (Miss.) (Shut-in)	1 1		
<b>O'BRIENS COULEE</b>			
Bow Island (L. Cret.) (Shut-in)	17 8	Statewide.	None
<b>OLD SHELBY</b>			
Sunburst (L. Cret.) Gas (Shut-in)	6 8	320-acre spacing units to be comprised of either east half, west half, north half or south half of a section for Sunburst gas. Well location to be no closer than 660' to the unit boundary. (Order 85-81). Field enlargement. (Orders 114-81, 159-81) Amendment to Orders 85-81, 114-81 and 159-81 to include Kootenai and Dakota formations. (Order 116-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>OLLIE</b>			
Red River (Ord.)	1	320-acre specified spacing units for the Red River and Duperow formations. The permitted well for each spacing unit to be located no closer than 660' from the spacing unit boundary. Order 73-80.	Produced water disposed into the Dakota formation (Order 11-A-82.)
Duperow (Dev.)	1		
<b>OTIS CREEK</b>			
Red River (Ord.)	3	Statewide.	None
<b>OTIS CREEK, SOUTH</b>			
Red River (Ord.)	1	320-acre spacing units; well to be located no closer than 660' to unit boundary. (Order 39-72). Extended field boundary. (Orders 56-76, 67-76). Orders 39-72 and 56-76 amended to eliminate spacing units. New spacing units are quarter sections. Well location no closer than 660' from unit boundary or 1650' from producing well with 150' tolerance. Operator may designate contiguous quarter sections as spacing units. (Order 73-81).	None
<b>OTTER CREEK</b>			
Red River (Ord.)	1	Statewide.	None
<b>OUTLOOK</b>			
Duperow (Dev.)	1	Statewide.	Produced water is disposed into Dakota and Siluro-Devonian formations. (Orders 16-59, 17-65, 36-66, 9-A-77.) Produced water disposed into Madison formation. (Order 59-A-78.)
Winnepegosis (Dev.)	2	Statewide.	
(Shut-in)	2		
Silurian-Devonian	3	160-acre spacing units; well location in center of either SW 1/4 or NE 1/4 of each quarter section; 175' topographic tolerance. (Order 19-59A).	
(Shut-in)	1		
<b>OUTLOOK, SOUTH</b>			
Winnepegosis (Dev.)	1	160-acre spacing; permitted wells in either SW 1/4 or NE 1/4 of quarter section; 175' topographic tolerance. (Orders 19-59A) commingling permitted. Order 45-64.	Produced water disposed into Muddy and Dakota formations. (Order 17-65.)
<b>OUTLOOK WEST</b>			
Winnepegosis (Dev.)	2	160-acre spacing units consisting of quarter sections; permitted wells in either SW 1/4 or NE 1/4 with a tolerance of 175'. (Order 7-67).	Produced water disposed into Dakota formations. (Order 42-66.)
<b>OXBOW</b>			
Red River (Ord.)	1	320-acre spacing consisting of two contiguous governmental quarter sections which may be in one or two governmental sections lying east-west or north-south at operator's option. Location to be no closer than 660' to the unit boundary or closer than 1650' to a well producing from same pool. (Order 7-78). Field enlargement. (Order 137-80).	None
<b>PALOMINO</b>			
Nisku (Dev.)	3	Statewide.	Produced water disposed into the Dakota formation (Order 6-A-82, 58-A-82.)
Mission Canyon			
<b>PASTURE</b>			
Interlake (Sil.)	0	Statewide.	None
<b>PASTURE CREEK</b>			
Red River (Ord.)	1	Statewide.	None
<b>PELICAN</b>			
Red River (Ord.)	1	320-acre spacing units; wells to be located no closer than 660' to any governmental section or quarter section line boundary. (Order 21-79).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>PENNEL</b>			
Siluro-Ordovician Oil & Gas (Shut-in)	137 18	80-acre spacing units consisting of east and west half of quarter section; wells located in center of SE 1/4 and NW 1/4 of quarter sections with 150' topographic tolerance. (Order 15-61). 80-acre spacing units on west side and 160-acre spacing units on east side of pool. Wells to be located in SE 1/4 and NW 1/4 of each quarter section (80 acres) and in SE 1/4 of each quarter section on 160-acre spacing. (Orders 1-56, 8-56, 15-61, 20-62, 4-63, 7-63). Commingling approved. (Order 59-62).	Produced water is being injected into Dakota, Siluro-Ordovician and Madison formations. (Orders 16-60, 46-62, 68-62, 36-63, 13-64.) Waterflood for Siluro-Ordovician approved Nov. 1968. (Order 24-68.)
<b>PETE CREEK</b>			
Sunburst (L. Cret.) Oil	1	Statewide.	None
<b>PHANTOM</b>			
Sunburst (Cret.) Gas	1	Gas: wells permitted anywhere within the unit but no closer than	None
Sunburst (L. Cret.) Oil (Shut-in)	2 1	990' to the unit boundary.	
Swift (U. Jur.) Gas	3	Oil: projected depths greater than 6000' to be located no closer than 660' to the unit boundary. Project depths less than 6000' to be located no closer than 330' to the unit boundary. (Order 48-77).	
<b>PHANTOM, WEST</b>			
Sunburst (L. Cret.) Gas	1	One well per spacing unit to be located no closer than 660' to the exterior boundaries of three certain spacing units. (Order 65-78).	None
<b>PINE</b>			
Mission Canyon (Miss.) Oil & Gas (Shut-in)	2 1	Statewide spacing rules are waived within the Pine Unit. 80-acre spacing units outside of unit area; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance. (Order 37-62).	A waterflood program for the south area was started in 1959. A waterflood of the north area was approved in 1967. (Orders 13-68, 1-60, 8-62, 32-67.) Produced water injected into Mission Canyon. (Order 10-A-74.)
Siluro-Ordovician Oil & Gas (Shut-in)	95 30	Gas through extraction plant.	
<b>PLENTYWOOD</b>			
Red River (Ord.)		Statewide.	None
<b>PLEVNA</b>			
Judith River (U. Cret.) Gas (Shut-in)	5 5	1200' from quarter section line; 2400' from other wells in same lease or unit; 75' topographic tolerance. (Orders 34-54, 4-57 and Order 34-54 Corrected).	None
Eagle (U. Cret.) Gas (Shut-in)	1		
<b>POLICE COULEE</b>			
Bow Island (L. Cret.)	7	320-acre spacing units; location no closer than 990' from section line and 660' from half section lines. Spacing units to consist of north half or south half, east half or west half at discretion of operator. (Order 53-76). Extended Field boundaries. (Order 24-77). Field enlargements. (Orders 20-79 and 46-79).	None
<b>PONDERA</b>			
Madison (Miss.) (Shut-in)	358 16	Oil: 220' from legal subdivision, 430' from other wells in same reservoir on same lease; 75' topographic tolerance. Porter Bench Extension: 330' from legal subdivision line; 650' from other wells in same reservoir on same lease or unit; 75' topographic tolerance. (Order 9-54). Gas: well to be located no closer than 1320' from the boundaries of any quarter section line, nor less than 3700' from every other drilling or producible well on the same lease or unit. (Order 9-54 Corrected).	Produced water injected into lower Madison. (Orders 11-56, 15-56, 4-65, 4-66, 20-A-71, 57-A-78, 58-A-78, 62-A-78, 71-A-78, 29-A-79, 62-A-79, 63-A-79, 64-A-79, 65-A-79, 14-A-80, 15-A-80, 16-A-80, 17-A-80, 127-A-81, 108-A-82, 7-A-82.)
<b>PONDERA COULEE</b>			
Sun River (Miss.) (Shut-in)	2 3	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance. (Order 5-62).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>POPLAR, EAST</b>			
Madison (Miss.)	53	Statewide spacing; field delineated by Order 7-55. Redelineation of field. (Order 25-76).	Unitized in 1955. (Order 7-55.) Excess produced water has been injected into the Dakota, Judith River, and Mission Canyon formations. (Orders No. 1-55, 5-57, 7-57, 14-61, 21-61, 34-61, 10-62, 51-67, 10-A-73, 127-A-80, and 121-A-81.)
(Charles & Mission Canyon) (Shut-in)	18		
Heath (Tyler) (Penn.)	1		
<b>POPLAR NORTHWEST</b>			
Charles (Miss.)	19	80-acre spacing units consisting of east half and west half of each quarter section; permitted wells to be located in the center of NW 1/4 or SE 1/4 of each quarter section with 75' tolerance allowed in any direction for surface hazards and obstructions. (Order 18-55). 80-acre specifically designated spacing units with well location to be located in the center of the NW 1/4 or SE 1/4 of each quarter section with a tolerance of 150' in any direction for topographic or geologic reasons. (Order 26-76) 80-acre spacing units to be north half and south half or east half and west half of each quarter section; permitted well to be located in center of each NE 1/4 or SW 1/4 of each quarter section with 150' tolerance for topographic or geologic reasons. (Order 124-80). 80-acre spacing units for test wells to the Charles formation; spacing units to be north half and south half or east half and west half of each quarter section with location to be in center of each NE 1/4 or SW 1/4 of each quarter section with 150' tolerance for archeological reasons only. (Order 161-81).	Produced water disposed into Dakota. (Order 61-A-78, 128-A-82.) Produced water disposed into the Judith River formation (Orders 13-A-82 and 14-A-82.)
("B" & "C" or McGowan Zone) (Shut-in)	1		
Madison (Miss.)	2		
<b>POPLAR, SOUTHEAST</b>			
Charles (Miss.)	0	Statewide.	None
<b>PRAIRIE DELL</b>			
Bow Island (L. Cret.)	32	320-acre spacing units with well location no closer than 660' to spacing unit boundary. (Order 10-76). Redelineation and amendment to Order 10-76. Field enlargement by Orders 28-78, 24-79, 132-80, 40-81, 54-81 and 142-81.	None
Sunburst (L. Cret.)			
Swift (U. Jur.)			
<b>PRAIRIE DELL, WEST</b>			
Swift (U. Cret.) Gas	1	640-acre spacing unit; well to be no closer than 990' to the spacing unit boundary. (Order 16-78). Amending Order 16-78 to include all horizons above the Rierdon formation. (Order 54-78). Field enlargement. (Order 55-78).	None
<b>PRAIRIE ELK</b>			
Charles "C" (Miss.)	1	Statewide.	None
<b>PRICHARD CREEK</b>			
Sunburst (L. Cret.) Oil & Gas	4	Well locations subject to administrative approval.	Unitized as to Sunburst for water injection. (Order 7-73.)
(Shut-in)	2		
Swift (U. Jur.) Oil	1		
<b>PUMPKIN CREEK</b>			
Shannon (U. Cret.) Gas (Shut-in)	8	Statewide. Delineated. (Order 10-71).	None
<b>PUTNAM</b>			
Red River (Ord.)	12	Statewide.	None. Gas to McCulloch Gas Processing Corp. Brorson Plant.
(Shut-in)	1		
Mission Canyon (Miss.)	2		
Bakken	1		
<b>RABBIT HILLS</b>			
Sawtooth (Jur.)	5	160-acre spacing unit. Well location 660' from spacing unit boundary. (Orders 17-73, 34-74, 33-76). Redelineation. (Order 47-76).	Produced water disposed into Eagle formation. (Order 49-A-75.)
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>RAGGED POINT</b> Tyler (Penn.) (Shut-in)	17 6	40-acre spacing units; 75' topographic tolerance. (Order 8-59). Spacing waived for Tyler "A" sand reservoir within Tyler "A" Sand Unit except no well can be closer than 660' to unit boundary. (Order 35-65)	A waterflood project on the Tyler "A" sand was commenced in February, 1966, using Third Cat Creek water. (Order 35-65.)
<b>RAGGED POINT, SOUTHWEST</b> Tyler (Penn.)		Applicants may drill and produce wells to the Tyler "A" formation anywhere within the unit but not closer than 330' to the unit boundaries. (Order 83-82).	Tyler "A" waterflood unit agreement approval effective August 1, 1982 (Order 83-82.)
<b>RAINBOW</b> Red River	1	Single spacing unit. (Order 69-82).	None
<b>RAPELJE</b> Clagett, Eagle, Judith River Virgelle (U. Cret.)	11 1	160-acre spacing. Wells no closer than 990' to unit boundary. Com-mingling after administrative approval. (Order 29-73).	None
<b>RATTLER BUTTE</b> Tyler (Penn.)	6	Statewide.	None
<b>RATTLESNAKE COULEE</b> Sunburst (L. Cret.) Oil & Gas	5	Statewide.	None
<b>RAYMOND</b> Nisku (Dev.) Red River (Ord.) Winnipegosis (Dev.) Charles (Miss.)	1 2 2 10	320-acre spacing units. Wells 660' from spacing unit boundary. (Order 38-72). Gas Storage. (Order 50-78). Field extension-new pool designation (Order 35-79). Order 50-78 amended by Order 60-79. Field enlargement. (Orders 31-80 and 128-80). Field reduction. (Order 135-81).	Produced water injected into Dakota formation. (Order 38-A-74.) Produced water injected into Mission Canyon (Order 105-A-79) and (113-A-80.) Produced water injected into Raymond formation, (Order 131-A-81.) Authorization to inject gas into the Nisku formation. (Order 135-81.)
<b>RAYMOND, NORTH</b> Red River (Ord.)	1	Single spacing unit. (Order 94-82).	None
<b>RAYMOND, NORTHEAST</b> Nisku (Dev.)	1	160-acre spacing units. Wells 660' from spacing unit boundary. (Order 12-74).	None
<b>REAGAN</b> Sun River (Miss.) Oil (Shut-in) Gas	52 20 1	Statewide. (Order 17-54).	A pressure maintenance project utilizing gas injection was started in 1961. (Order 21-60.) Waterflood. (Order 27-72.)
<b>RED BANK</b> Mission Canyon Red River (Ord.) Ratcliffe (Miss.)	7 2 9	Statewide.	Produced water disposed into the Dakota formation (Order 10-A-82)
<b>RED BANK, SOUTH</b> Red River (Ord.)	1	Statewide.	None
<b>RED CREEK</b> Cut Bank (L. Cret.) Oil & Gas Sun River (Miss.) Oil & Gas (Shut-in)	9 16 3	40-acre spacing units; wells in center of spacing unit with 75' topographic or obstruction tolerance; spacing and field rules waived for unitized portion. (Orders 16-58, 73-62, 31-64, 5-70).	Excess produced water injected into Bow Island and Madison. (Orders 22-63, 37-64.) A waterflood project in the Cut Bank sand was initiated in June, 1965, using Madison water.
<b>RED FOX</b> Nisku (Dev.)	1	Field consists of one 160-acre spacing unit which straddles the section line. (Order. 20-67).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>RED ROCK</b> Eagle (U. Cret.) Gas	5	Spacing units shall consist of the north half and south half of section with permitted well to be no closer than 990' from exterior section line nor closer than 660' to half section line. (Order 89-79).	None
<b>RED WATER</b> Duperow (Dev.) (Shut-in)	1	Statewide.	None
<b>REDSTONE</b> Winnipegosis (Dev.)	1	One well per 160-acre unit, but no closer than 660' from unit boundary. (Order 30-67).	None
<b>REFUGE</b> Red River (Ord.)	1	Statewide.	None
<b>REPEAT</b> Red River (Ord.)	1	Statewide.	None
<b>RESERVE</b> Red River (Ord.) Winnipegosis (Dev.)	5	160-acre spacing units; permitted well within 1320' square in center of quarter section. Commingling of Red River and Interlake production permitted on individual well basis. (Orders 34-66, 27-67).	Excess water injected into Dakota sand. (Order 23-A-67.)
<b>RICHEY</b> Charles (Miss.)	4	Statewide. Original 80-acre spacing revoked. (Order 11-73).	None
<b>RICHEY, EAST</b> Charles (Miss.)	1	Statewide.	None
<b>RICHEY, SOUTHWEST</b> Interlake, Dawson Bay (Sil.) (Dev.) (Shut-in)	2 4	160-acre spacing units; wells no closer than 900' from boundary of spacing unit. (Order 25-62).	A waterflood project in the Interlake and Dawson Bay was started in 1965. (Order 34-65.)
<b>RICHEY, WEST</b> Charles (Miss.)	1	Statewide.	None
<b>RIDGELAWN</b> Madison (Miss.) Red River	25 1 5	Statewide.	None
<b>RIPRAP COULEE</b> Ratcliffe (Miss.)	5	Statewide.	None
<b>RIVERBEND</b> Red River (Ord.)	1	Statewide.	None
<b>ROCKY BOY AREA</b> Eagle-Virgelle (U. Cret.) (Shut-in) Judith River (U.Cret.)	7 3 3	Statewide.	None
<b>ROCKY POINT</b> Red River (Ord.)	2	320-acre spacing unit; well to be located no closer than 660' from exterior boundary. (Order 22-79).	None
<b>ROSCOE DOME</b> Lakota (L. Cret.)	1	Statewide.	Steam injection into Greybull and Lakota formations (Order 40-82.)
<b>ROSEBUD</b> Tyler (L. Penn.)	5	Statewide.	None



Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>ROYALS</b> Dawson Bay (Dev.)	1	Statewide.	None
<b>RUDYARD</b> Sawtooth (M. Jur.) Gas Oil	7 4	640-acre spacing units consisting of one section; well location in center of NW 1/4 of section with 75' topographic tolerance. (Order 2-58). Field boundaries reduced (Order 39-76).	None
<b>RUNAWAY</b> Madison (Miss.) (Shut-in)	1	Statewide.	None
<b>RUSH MOUNTAIN</b> Red River (Ord.)	1	Statewide. Dual zone completion in discovery well.	Excess water injected into Dakota sand. (Order 5-A-71.)
<b>SAGE CREEK</b> Greenhorn (Cret.) Gas (Shut-in) Blackleaf (L. Cret.) Gas (Shut-in)	1 19 2	640-acre spacing, one producing well per section per formation above the Kootenai to be located no closer than 990' from section line. (Order 38-77). Amended field boundary. (Order 86-79). Field enlargement. (Order 33-81).	None
<b>SALT LAKE</b> Bakken-Nisku (Miss.-Dev.)	3	Statewide.	Produced water disposed into Nesson (Madison) formation. (Order 61-A-80.)
<b>SAND CREEK</b> Interlake, Red River (Sil.) (Ord.) (Shut-in)	6 1	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Wells located in center of NW 1/4 and SE 1/4 of each quarter section. (Order 16-59). Commingling of production from Interlake and Red River authorized per (Order 49-62).	Excess produced water is injected into the Swift formation. (Order 9-61.)
<b>SANDWICH</b> Sunburst (L. Cret.) Gas Swift (U. Jur.) Gas (Shut-in)	1 1	320-acre spacing unit. Well located no closer than 990' to spacing unit boundaries. (Order 17-77).	None
<b>SAWTOOTH MOUNTAIN &amp; AREA</b> Judith River (U. Cret.) Eagle (U. Cret.) (Shut-in)	8 23	640-acre spacing units, one well per section per formation, location to be not less than 990' from governmental section line. (Order 45-76).	None
<b>SCOBEY</b> Madison (Miss.) (Shut-in)	1	Statewide.	None
<b>SECOND CREEK</b> Red River (Ord.)	4	303.1-acre spacing unit; one well field. (Order 34-78).	Produced water injected into Dakota/Lakota formations (Order 127-A-82.)
<b>SECOND CREEK-DUPEROW</b> Duperow (Dev.) (Shut-in)	1	160-acre spacing units; well locations for each unit to be as specified by Order 119-80.	None
<b>SHEEPHERDER</b> Tyler (L. Penn.)	3	Statewide.	None
<b>SHELBY AREA</b> Sunburst (L. Cret.) Gas (Shut-in) Bow Island (L. Cret.) Gas	33 17 5	Statewide. Field outline not delineated. A few small Swift sand wells commingled with Sunburst.	None
<b>SHERARD FIELD</b> Eagle (U. Cret.) Gas (Shut-in)	5 4	640-acre spacing units; 990' from section line. (Order 1-74). 160-acre spacing units; (Eagle) 990' from section line, 660' from quarter section line. (Order 7-77).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>SHERARD UNIT</b>			
Eagle (U. Cret.) Gas	17	Statewide.	None
(Shut-in)	14		
Judith River (U. Cret.) Dual	1		
<b>SHERARD AREA</b>			
Eagle (U. Cret.)	11	Statewide.	None
(Shut-in)	11		
<b>SHERARD WEST</b>			
Eagle, Virgelle (U. Cret.)	1	160-acre spacing units; location no closer than 660' to unit boundary. (Order 90-76).	None
(Shut-in)			
<b>SHOTGUN CREEK, NORTH</b>			
Gunton (Ord.)	3	320-acre spacing units consisting of two contiguous governmental quarter sections which may be in one or two sections with permitted well to be no closer than 660' to the unit exterior boundary and no closer than 1500' to any well producing from the same formation. If not feasible to produce two zones separately, commingling permissible with prior administrative approval. (Order 49-77).	None
Red River (Ord.)			
<b>SIDNEY</b>			
Mission Canyon (Miss.)	22	160-acre spacing units for Madison Group. One well per spacing unit to be located no closer than 660' from unit boundary and no closer than 1650' to well producing from the same formation. (Order 5-79. Field enlargement. (Order 99-80).	Excess water injected into Dakota formation. (Order 41-A-78.)
Red River (Ord.)	4		
<b>SIDNEY, EAST</b>			
Madison	7	Statewide.	None
<b>SINGLETREE</b>			
Red River (Ord.)	1	Statewide.	Produced water disposed into Dakota formation. (Order 59-A-80.)
<b>SIOUX PASS</b>			
Interlake (Sil.) (Dual)	1	320-acre spacing units consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option. Permitted well no closer than 660' from unit boundary. (Interlake and Red River). 160-acre spacing unit (Mission Canyon) with well no closer than 660' from unit boundary. Commingling of Interlake and Red River production authorized. (Order 10-75). Amended field boundary. (Order 15-77). Field reduction. (Order 89-81).	Excess water injected into Dakota formation. (Order 15-A-75.)
Red River (Ord.)	7		
Mission Canyon	1		
(Shut-in)	1		
<b>SIOUX PASS, EAST</b>			
Red River (Ord.)	2	Statewide.	None
<b>SIOUX PASS, MIDDLE</b>			
Red River (Ord.)	6	320-acre spacing units to consist of two contiguous governmental quarter sections at operator's option. Location to be no closer than 660' from exterior boundary of unit and no closer than 1650' from well producing from same formation. Commingling permissible with Administrative approval. (Order 55-76). An exception to Order 55-76 by (Order 39-81).	None
<b>SIOUX PASS, NORTH</b>			
Nisku (Dev.) Red River (Ord.)	1	320-acre spacing units with well location at least 660' from unit boundary. (Order 12-75). Field enlarged. (Order 16-75). Commingling from Interlake and Red River approved. (Order 36-76). Field extension. (Order 12-77). Orders 12-75, 16-75 and 12-79 amended by (Order 8-79). Field extension. (Order 13-79). Orders 12-75, 12-77, 8-79 and 13-79 amended to allow 150' tolerance closer to quarter section line or nearest well producing from same reservoir for topographical reasons. (Order 10-81). Field enlargement. (Order 48-81).	Produced water injected in Dakota-Lakota formations. (Order 34-A-75.)
Dual			
Red River (Ord.)	13		
(Shut-in)	2		
Madison (Miss.)	4		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>SIOUX PASS, NORTH-DUPEROW</b> Duperow		Two 320-acre spacing units. (Orders 107-80,74-82).	None
<b>SIOUX PASS, SOUTH</b> Red River (Ord.)	1	Statewide.	None
<b>SNOOSE COULEE</b> Bow Island (L. Cret.) Gas (Shut-in)	8 1	640-acre spacing units; location no closer than 990' from spacing unit boundary. Bow Island and shallower formations. (Order 18-77).	None
Sunburst	1		
<b>SNOW COULEE</b> Sunburst (L. Cret.) Gas (Shut-in)	1	Spacing units. E 1/2 Section 33 and W 1/2 Section 34, T36N, R4E designated as spacing units. (Order 78-76).	None
<b>SNYDER</b> Tensleep (Penn.) (Shut-in)	3 1	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance. (Order 45-62).	None
<b>SOAP CREEK</b> Tensleep, Amsden, Madison (Penn.) (Penn.) (Miss.) (Shut-in)	25 5	One well per 10-acre spacing unit per producing formation; well location in center of spacing unit with 100' topographic tolerance. (Order 26-60).	None
<b>SOAP CREEK, EAST</b> Tensleep (Penn.)	3	Statewide.	None
<b>SOBERUP COULEE</b> Bow Island (L. Cret.) Gas	1	Statewide.	None
<b>SOUTH FORK</b> Red River (Ord.) Mission Canyon (Miss.)	3 1	Statewide.	None
<b>SPRING COULEE</b> Sawtooth (Jur.)	3	Statewide.	None
<b>SPRING LAKE</b> Nisku (Dev.) (Shut-in) Red River (Ord.) Bakken	1 2 1	One well per 160-acre spacing unit. Well location anywhere within 840' square in center of spacing unit. (Order 6-63). Field redelineation. (Orders 30-76, 49-76).	None
<b>SPRING LAKE, SOUTH</b> Red River (Ord.)	1	Single spacing unit. (Order 81-81).	None
<b>SPRING LAKE, WEST</b> Duperow (Dev.)		Single spacing unit. (Order 42-82).	None
<b>STAMPEDE</b> Red River (Ord.)	2	320-acre specified spacing units for the Red River formation. 160-acre spacing units for the Duperow formation with well location to be no closer than 660' from a spacing unit boundary line. (Order 19-82).	None
<b>STAMPEDE, NORTH</b> Nisku (Dev.) Oil	1	160-acre single spacing unit for Nisku formation. (Order 29-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>STENSVAD</b> Tyler (Penn.) (Shut-in)	4 11	40-acre spacing units; well location in center of spacing unit with 200' tolerance. (Orders 2-59), 7-60). Wells may be drilled anywhere within waterflood unit boundary, no closer than 660' from unit boundary. (Order 5-65, amended.)	None
<b>STRATER</b> Phillips (U. Cret.) Gas	0	160-acre spacing units; well location to be no closer than 660' from quarter section line. (Order 103-81).	None
<b>STRAWBERRY CREEK AREA</b> Bow Island-Blackleaf (L. Cret.) Gas (Shut-in)	1 2	Statewide.	None
<b>SUMATRA</b> Tyler (Penn.) Oil & Gas Amsden	55	40-acre spacing units; well located in center of unit with 75' tolerance. (Order 14-58). Field redelineated. (Order 14-75). Vacuum pumps permitted on certain wells. (Orders 99-79 and 32-80).	Seven waterflood units using Madison water. (Orders 48-67, 6-69, 19-69, 23-69, 5-75, 21-78, and 43-80.) Produced water disposed into Madison formation. (Order 7-A-76.)
<b>SUNNYHILL</b> Red River (Ord.) Oil & Gas Madison (Miss.)	2 2	320-acre spacing units; location to be no closer than 660' to the section or quarter section line which is the exterior boundary of the unit nor closer than 1650' to any well producing from same formation. (Order 39-78).	Produced water disposed into Dakota formation. (Order 27-A-80.)
<b>SWANSON CREEK</b> Phillips (U. Cret.) Gas (Shut-in)	58 24	320-acre spacing units; (Order 36-75) amended to enlarge field and provide that spacing units may run north-south or east-west with permitted wells to be no closer than 990' to section or quarter section lines. (Order 11-78). Field boundaries extended by Orders 32-78, 92-79, 66-80 and 55-81. All previous Swanson Creek orders are amended to allow one additional well in each existing 320-acre spacing unit that shall be drilled in a manner that there be no more than one well per quarter section and located no closer than 660' to the quarter section boundaries. (Order 28-82) <sup>6</sup>	None
<b>SWEETGRASS</b> Sunburst (L. Cret.)	0	Single spacing unit. (Order 121-82).	None
<b>TARGET</b> Charles/Ratcliffe Madison (Miss.)	11	Single spacing unit for Mission Canyon/Ratcliffe formations. (Order 18-82). Amendment to Order 18-82 for field enlargement and establishing 160-acre spacing units with permitted well locations to be no closer than 660' from the unit boundaries. 150' tolerance for topographic reasons. (Order 35-82).	None
<b>THREE BUTTES</b> Gunton & RR Mission Canyon (Shut-in)	3 1 1	160-acre spacing units, well location no closer than 660' from governmental quarter section line or unit boundary. (Order 11-81).	None
<b>THREE MILE</b> Eagle (U. Cret.) (Shut-in)	4 2	Statewide.	None
<b>TIBER</b> Bow Island (L. Cret.) Gas	5	Spacing allows one well for each gas producing horizon to be located anywhere within the section but no closer than 990' to the section line. (Order 143-81).	None

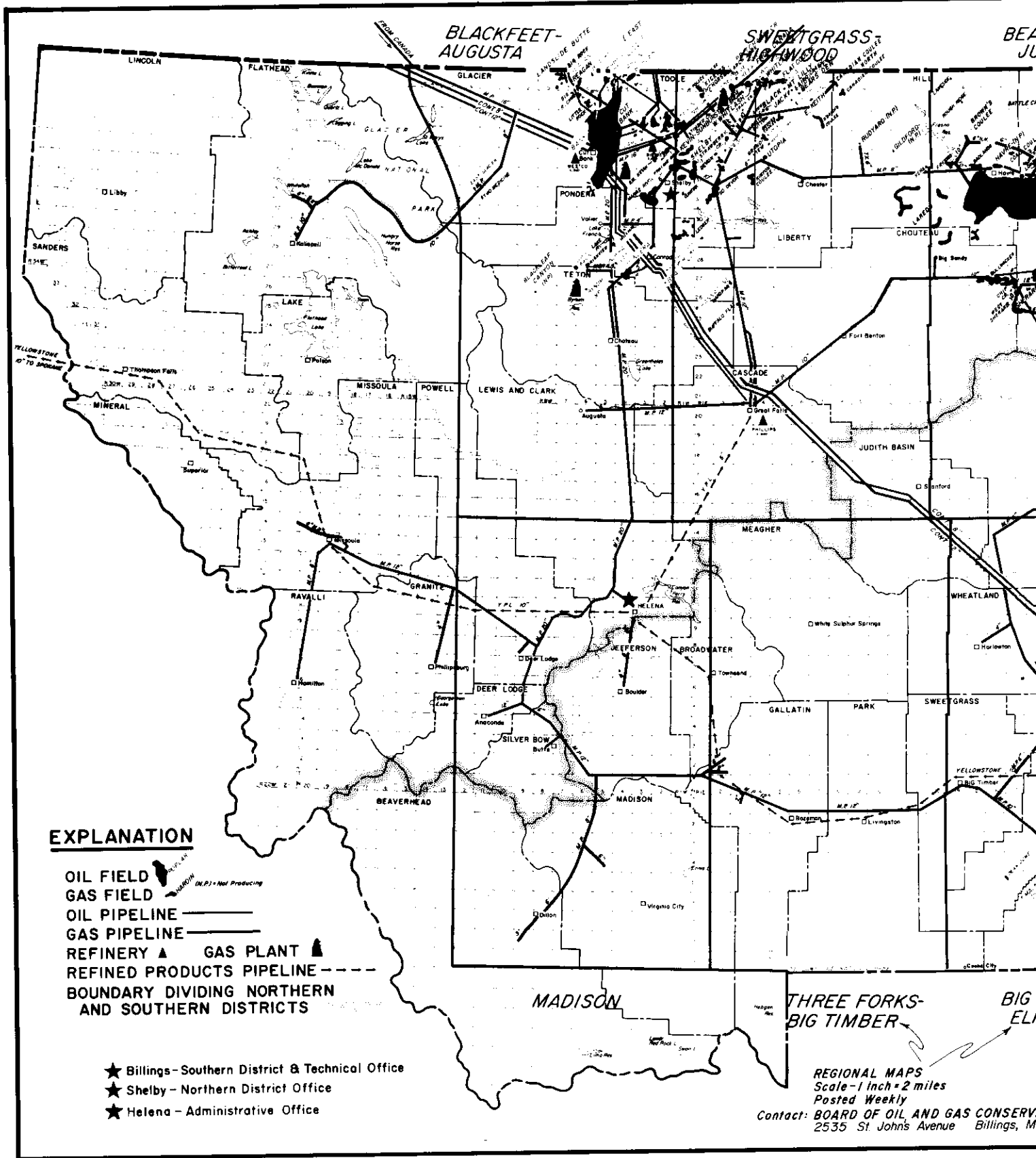
Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>TIGER RIDGE</b>			
Eagle (U. Cret.) Gas (Shut-in)	184 3	Field delineated; (Orders 17-67, 23-68). Redelineated and established. Statewide spacing. (Order 10-70). Statewide for field area not unitized. Two units: wells to be located no closer than 990' from unit boundary. (Orders 11-72, 41-72). 160-acre spacing units; Sections 20, 21, 22, 27, 28, 33, 34, T32N, R16E, (Judith River) locations to be no closer than 660' from unit boundary. (Order 32-73). Enlarge and redelineate field. (Order 13-75). 160-acre spacing units in Sections 22, 23, 24, T32N, R14E (Eagle & Virgelle) wells to be located no closer than 990' from section line and 660' from quarter section line. (Order 37-75). 160-acre spacing units; NW 1/4 & NE 1/4 Section 30, T31N, R17E, well to be located at least 990' from quarter section line. 75' tolerance allowed for topographic reasons. (Order 51-77). 160-acre spacing units; Sections 32, 33, T31N, R17E and Section 4, T30N, R17E (Eagle) to be located no closer than 990' to a section line and 660' to quarter section line. (Order 52-77). Field enlargement. (Order 46-78). Field enlargement. (Order 48-79). Amendment to Orders 17-67, 23-68 and 10-70 to establish 320-acre spacing units in certain areas. (Order 79-79). Field enlargement and amending field rules to certain portions thereof. (Order 26-80). Amendment to Orders 17-67, 23-68 and 10-70 to allow an additional well in certain sections. (Orders 50-80 and 51-81). Amendment to Order 13-75 that allows one well per 160-acre spacing unit for Eagle formation with location to be no closer than 990' to boundaries of quarter section underlying Section 35, T32N, R18E. (Order 54-80). Amendment to Orders 17-67, 23-68 and 10-70 to allow an additional well to the Eagle formation within certain specified sections. (Order 26-82).	Excess produced water injected into Eagle formation. (Orders 19-A-73, 46-A-75.) (Order 19-A-73) Amended by (Order 60-A-78.)
<b>TIGER RIDGE, NORTH</b>			
Eagle (U. Cret.)	1	160-acre spacing units; one well per horizon per spacing unit from the Virgelle formation to the surface. Well to be no closer than 990' to the section line nor closer than 660' to the interior quarter section line. (Order 80-79).	None
<b>TIPPY BUTTES</b>			
Tyler (Penn.)	1	Statewide.	Water injection into lower Tyler formation (Order 57-82.)
<b>TRAIL CREEK</b>			
Sunburst (L. Cret.) Gas Bow Island (L. Cret.)	6	One well per 320-acres consisting of S 1/2 and N 1/2 of each governmental section but not closer than 990' from spacing boundary. (Orders 33-70, 28-76). Field enlargements. (Order 135-80).	None
<b>TULE CREEK</b>			
Nisku (Dev.) (Shut-in)	5 1	160-acre spacing units with permitted well anywhere within 1320' square in center of each unit. (Orders 26-62, 6-65, 11-67, 5-77).	Produced water injected into Dakota and Judith River formations. (Orders 12-66, 24-67, 8-A-76, 134-A-81.) Produced water disposed into Dakota formation (Order 38-A-82.)
<b>TULE CREEK, EAST</b>			
Nisku (Dev.)	1	160-acre spacing units with permitted well anywhere within 1320' square in center of each unit. (Orders 40-64, 6-65).	Water injected into Judith River formation. (Order 13-68.) Water injected into Nisku formation. (Order 28-A-79.)
<b>TULE CREEK, SOUTH</b>			
Nisku (Dev.)	1	160-acre spacing units with permitted well anywhere within a 1320' square in center of each unit. (Orders 34-64, 6-65).	Authority given to dispose of produced water into Dakota. (Order 44-64.) Into Judith River formation. (Order 29-67.)
<b>TWO FORKS</b>			
Judith River (U. Cret.) Gas	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>TWO MEDICINE CREEK</b> Sun River (Miss.)	1	Statewide.	Produced water disposed into Cut Bank formation (Order 89-A-80.)
<b>TWO WATERS</b> Red River (Ord.) Bakken	1 1	Statewide.	None
<b>UTOPIA, GAS</b> Sawtooth (Jur.) Gas (Shut-in)	4 3	640-acre spacing units; well location may be anywhere within the unit but no closer than 990' to any governmental section line. (Order 13-80).	None
<b>UTOPIA SWIFT</b> Swift (U. Jur.) Oil (Shut-in)	21 2	40-acre spacing units; location to be in center of quarter-quarter section with no more than 100' topographic tolerance. (Order 9-78). Order 9-78 amended. Spacing units shall consist of 1 well per quarter quarter section no closer than 330' from the section boundary. (Order 96-81).	None
<b>VANDALIA</b> Bowdoin, Greenhorn, Phillips (L. Colo.)	9	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn and Phillips) exist a well may be drilled to each discrete formation and to be located no closer than 660' to the unit boundaries. (Order 61-82).	None
<b>VAUX</b> Red River (Ord.) Mission Canyon (Miss.) Interlake (Sil.)	4 11 3	Statewide.	Produced water injected into the Dakota formation. (Order 44-A-79.)
<b>VAUX SOUTH</b> Red River Stonewall	1 1	Statewide.	Produced water injected into Dakota formation. (Order 109-A-82.)
<b>VIDA</b> Interlake (Sil.)	1	160-acre spacing units with permitted well anywhere within an 840' square in center of each unit. (Order 39-63). Field area reduction. (Order 79-76).	Water injected into Lakota formation. (Order 14-68.)
<b>VIKING</b> Dawson Bay (Dev.) (Shut-in) Winnipegosis	1	320-acre spacing units, designated to be located no closer than 660' to the unit exterior boundary and no closer than 1500' to any well producing from the same formation. If not feasible to produce two zones separately, commingling permissible with prior administrative approval. (Order 50-77).	None
<b>VOLT</b> Nisku (Dev.) Charles"C" (Miss.)	5 1	160-acre spacing units with permitted well anywhere within a 1320' square in center of each unit. (Orders 27-64, 6-65, 32-65). Statewide.	Excess produced water is disposed into Judith River. (Orders 3-65, 37-A-74.)
<b>WAGON BOX</b> Tyler (Penn.) (Shut-in)	1 1	Statewide.	None
<b>WAGON TRAIL</b> Red River	1	Statewide.	None
<b>WEED CREEK</b> Amsden (Penn.)	1	Statewide.	None
<b>WELDON</b> Kibbey (Miss.) (Shut-in)	3 1	80-acre spacing unit; each quarter section divided into two separate units running in either a north-south or east-west direction; well location in center of NE 1/4 and SW 1/4 of quarter section with 200' topographic tolerance. (Order 9-65).	Excess produced water is disposed into the Dakota, Lakota, Morrison, Charles, and Kibby formations (Orders 31-65, 47-65, 37-66, 16-67, 51-A-81, 118-A-81, 128-A-81.)

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>WEST BUTTE</b>			
Sunburst (L. Cret.) Oil	5	Statewide, except W 1/2 Section 16 is considered a single spacing unit. Sawtooth-Madison gas commingled, unitized. (Order 5-72). No well closer than 330' from unit boundary.	None
Bow Island (L.Cret.) Gas (Shut-in)	1		
Sawtooth (Jur.) Gas (Shut-in)	3		
Madison (Miss.) Gas (Shut-in)	1		
<b>WEST BUTTE SHALLOW GAS</b>			
Bow Island (L.Cret.)(Shut-in)	2	160-acre spacing units; with one well to be permitted to produce from each individual gas producing formation above the top of the Kootenai to the surface within each 160-acre spacing unit. Well locations to be anywhere within the spacing unit but not closer than 990' from the spacing unit boundaries. (Order 39-77).	None
<b>WEST FORK</b>			
Charles (Miss.)	1	Statewide.	None
<b>WHITLASH</b>			
Bow Island, Kootenai, Swift Oil (Cret.) (Jur.) (Shut-in)	45	Gas: 300' from legal subdivision line and 2400' between wells, 75' topographic tolerance. Oil: 330' from legal subdivision line and 650' between wells; 5-spot location at center of 40-acre tract permitted; 75' topographic tolerance. (Orders 16-54, 27-70). Order 16-54 amended to include S 1/2 of Section 30, T37N, R4E. SW 1/4 of 30 is 1 spacing unit, SE 1/4 is the other. Well location no closer than 990' from spacing unit boundary. (Order 45-81).	None
Gas (Shut-in)	33		
Madison (Miss.) Gas	5		
	1		
<b>WHITLASH, WEST</b>			
Sunburst, Swift (Cret.) (Jur.) Gas (Shut-in)	3	Gas: 160-acre spacing units consisting of quarter sections; well location anywhere within a 660' square in center of spacing unit. Oil: 330' from legal subdivision line, 650' between wells in same reservoir on same lease; 5-spot location permitted. (Orders 61-62, 22-65 as amended). Order 61-62 amended by Order 48-77. Field extension. (Order 18-79).	None
	4		
<b>WILLIAMS</b>			
Bow Island (L. Cret.) Gas	18	640-acre spacing unit; well to be located no closer than 990' to exterior boundary for all formations above the Kootenai. (Order 49-79). Amendment enlarging field boundary. (Order 102-79).	None
<b>WILLOW CREEK NORTH</b>			
Tyler (Penn.) Oil (Shut-in)	2	Statewide.	Pilotflood. (Order 19-72.)
	1		
<b>WILLOW RIDGE</b>			
Bow Island (L. Cret.) Gas (Shut-in)	16	640-acre spacing units; location to be no closer than 990' to unit boundary for gas production from all formations to the top of the Kootenai. (Order 29-78). 40-acre spacing units with permitted 5 wells; well may be located in the center of each 10 acre quarter, quarter, quarter section and one in the center of each 40-acre subdivision with a 75' topographic tolerance allowed. (Order 30-78).	None
Burwash (Cret.) Oil	3		
	4		
<b>WILLOW RIDGE, SOUTH</b>			
Bow Island (L. Cret.) Gas	2	Statewide.	None
<b>WILLS CREEK, SOUTH</b>			
Interlake (Sil.)	3	160-acre spacing units. Well location in center of SE 1/4 of each unit with 175' topographic tolerance. (Orders 5-64, 30-66).	Waterflood initiated 12-1-73. (Order 23-73.)
<b>WINDMILL</b>			
Duperow (Dev.)	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
<b>WINNETT JUNCTION</b> Tyler (Penn.)	4	20-acre spacing units. Units to be designated as W 1/2 and E 1/2 of quarter-quarter section, no closer than 120' to the boundary of a spacing unit. (Order 57-76). Certain lands bound by Order 57-76 vacated by Order 41-77.	A waterflood operation commenced October 1, 1977 into Tyler formation. (Order 41-77.)
<b>WISHBONE</b> Swift (U. Jur.)	1	Single spacing unit. (Order 87-81).	None
<b>WOLF SPRINGS</b> AMSDEN (PENN.) (Shut-in)	6 1	80-acre spacing units consisting of N 1/2 and S 1/2 of each quarter section. Well location in center of NW 1/4 and SE 1/4 of each quarter section with 75' topographic tolerance. (Orders 4-56, 9-59). Field area reduction. (Order 92-76).	None
<b>WOODROW</b> Interlake (Sil.) Red River (Ord.)	6	80-acre spacing units consisting of any two adjacent quarter-quarter sections; well locations in center of NE 1/4 and SW 1/4 of each quarter section with 200' topographic tolerance. (Order 47-62).	Produced water injected into Dakota. (Order 48-62.)
<b>WRANGLER</b> Red River (Ord.)	2	Statewide	None
<b>WRANGLER, NORTH</b> Red River (Ord.)	3	Statewide.	None
<b>WRIGHT CREEK</b> Muddy (L. Cret.) (Shut-in)	4 1	80-acre spacing consisting of N 1/2 and S 1/2 of quarter section with locations in NW 1/4 and SE 1/4 of each quarter section with 200' tolerance. Field area reduction. (Order 69-76).	Excess produced water is disposed of into the Muddy formation. Order 8-A-77.)
<b>YATES</b> Duperow (Dev.)	2	320-acre spacing units; well locations as specified for the Duperow and Red River formations that may be dually completed. (Order 92-81).	None



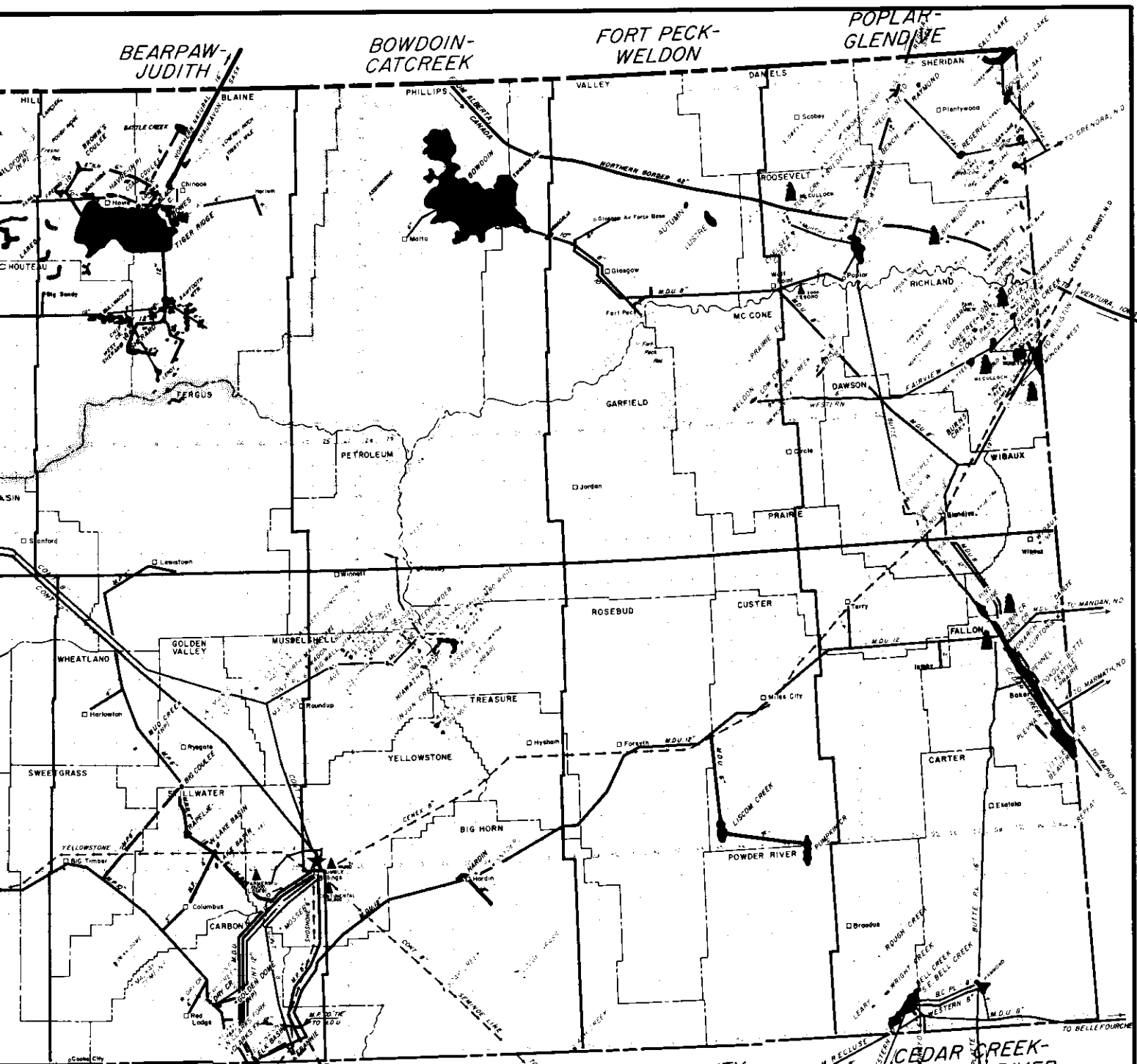


**EXPLANATION**

- OIL FIELD
- GAS FIELD (N.P.) = Not Producing
- OIL PIPELINE
- GAS PIPELINE
- REFINERY
- GAS PLANT
- REFINED PRODUCTS PIPELINE
- BOUNDARY DIVIDING NORTHERN AND SOUTHERN DISTRICTS

- ★ Billings - Southern District & Technical Office
- ★ Shelby - Northern District Office
- ★ Helena - Administrative Office

REGIONAL MAPS  
 Scale - 1 inch = 2 miles  
 Posted Weekly  
 Contact: BOARD OF OIL AND GAS CONSERVATION  
 2535 St. John's Avenue Billings, M



**MONTANA**  
**OIL AND GAS FIELDS, PIPELINES AND REFINERIES**  
 1982

BOARD OF OIL AND GAS CONSERVATION

AND GAS CONSERVATION  
 Avenue Billings, Mont. 59102

# STATE OF MONTANA SUMMARY OF PRO

LINE NO.	FIELD	COUNTY	PRODUCING FORMATION	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR %		PROD A AC
											PRIMARY	SECONDARY	
1.	Anvil	Roosevelt	Red River	1978	12,600	47	1.63	26	14	32	7		2
2.	Ash Creek	Roosevelt	Shannon	1952	4,500	34	1.05	14	22	42	40	5	
3.	Bainville North	Roosevelt	Ratcliffe	1980	8,800	30	0	13					
4.	Bainville North	Roosevelt	Red River	1979	12,400	43	1.55	40	9	32	4		2
5.	Bainville North	Roosevelt	Winnipegosis	1979	11,400	44	1.6	35	7	20	7		
6.	Bainville West	Roosevelt	Red River	1978	8,500	34	1.5	12	6	45	14		
7.	Bannatyne	Teton	Swift	1927	1,500	27	1.05	39	15	43	2		
8.	Bears Den	Liberty	Swift	1924	2,300	39	1.08	20	9	35	21		
9.	Bell Creek	Powder River	Muddy	1967	4,400	36	1.11	10	26	23	58	28	8
10.	Benrud East	Roosevelt	Nisku	1962	7,500	46	1.37	22	15	30	45		
11.	Benrud Northeast	Roosevelt	Nisku	1964	7,400	46	1.4	23	16	30	43		
12.	Big Muddy Creek	Roosevelt	Red River	1975	11,900	48	1.72	11	14	36	43		
13.	Big Wall	Musselshell	Amdsen	1953	2,500	19	1.01	17	16	35	81		
14.	Big Wall	Musselshell	Tyler	1948	3,000	31	1.02	22	17	40	61	1	
15.	Black Diamond	Wibaux	Red River	1981	11,310	27	1.31	4	40	10	1		
16.	Blackfoot	Glacier	Cut Bank, Greenhorn, Madison	1957	3,500	30	1.11	15	15	35	23	22	
17.	Blue Hill	Richland	Red River	1977	12,600	48	1.35	32	10	60	3		
18.	Boulder	Richland	Red River	1976	10,400	46	2.3	11	22	16	14		
19.	Bowes	Blaire	Sawtooth	1949	3,300	19	1.02	32	12	31	23		2
20.	Box Canyon	Richland	Red River	1980	11,800	46		11					
21.	Bradley	Glacier	Madison	1959	3,500	26	1.25	6	11	49	162		
22.	Brady	Pondera	Sunburst	1942	1,500	34	1.01	10	12	30	6		
23.	Breed Creek	Rosebud	Tyler	1976	4,900	32	1.15	20	15	37	38		
24.	Brorson	Richland	Madison	1954	9,600	32	1.4	40	5	40	13		
25.	Brorson	Richland	Red River	1968	12,600	48	1.7	20	10	35	39		
26.	Brorson South	Richland	Red River	1968	12,600	48	1.7	20	12	30	5		
27.	Brush Lake	Sheridan	Red River	1969	11,400	40	1.5	30	14	35	14		1
28.	Burget East	Roosevelt	Madison	1981	9,000			36					
29.	Burget East	Roosevelt	Red River	1980	12,800	45		55					
30.	Cabin Creek Unit 1	Fallon	Situro-Ord	1953	9,000	33	1.2	50	13	30	20	11	11
31.	Cabin Creek Unit 2	Fallon	Madison	1956	7,300	33	1.13	25	11	30	80		1
32.	Canal	Richland	Madison	1977	9,200	33	1.3	47	2	41	26		
33.	Canal	Richland	Red River	1970	12,700	47	2.07	58	8	40	18		
34.	Cannonball	Fallon	Red River	1980	10,300	34	2	14	11	34	8		
35.	Carlyle	Wibaux	Red River	1978	10,700	37	1.3	12	12	27	13		
36.	Cat Creek East	Garfield	Swift	1920	1,200	52	1.1	6	22	40	132	8	
37.	Cat Creek Mosby	Garfield,	Swift	1945	1,700	52	1.1	25	18	40	378	1	
		Petroleum											
38.	Cat Creek West Nonunit	Petroleum	Cret. Jur	1945	1,600	52	1.1	6	22	40	1		
39.	Cat Creek West Units	Petroleum	1 & 2 Cat	1920	1,100	52	1.1	51	21	19	9	5	1
40.	Charlie Creek	Richland	Nisku	1976	9,900	42	1.6	12	6	35	76		
41.	Charlie Creek East	Richland	Red River	1980	11,900	45		27					
42.	Clear Lake	Sheridan	Madison	1978	7,600	33	1.15	10	5	30	36		
43.	Clear Lake	Sheridan	Nisku	1979	9,000	43	1.53	31	11	27	2		
44.	Clear Lake	Sheridan	Red River	1977	11,200	42	1.65	32	18	35	6		1
45.	Colored Canyon	Sheridan	Red River	1978	11,300	40	1.4	18	13	28	5		1
46.	Comertown	Sheridan	Red River	1980	10,500	30	1.3	19	10	38	25		
47.	Cow Creek	McCone	Charles	1969	6,900	41				35			
48.	Cow Creek	McCone	Kibby	1971	6,300	35	1.05	15	15		9		1
49.	Crane	Richland	Red River	1979	12,700					8			
50.	Cupton	Fallon	Red River	1955	9,600	38	1.25	40	12	16	9		1
51.	Cut Bank	Toole, Glacier,	Cut Bank	1932	2,900	31	1.09	18	15	35	35	6	29
		Pondera											
52.	Dagmar	Sheridan	Red River	1976	11,300	37	1.65	22	16	35	4		1
53.	Dagmar North	Sheridan	Red River	1981	11,300	37		4	9	20			
54.	Deadmans Coulee	Roosevelt	Nisku	1981	7,500	45	1.1	10	11	40	10		
55.	Dean Dome	Stillwater	Greybull	1966	2,500	10		2					
56.	Deer Creek	Dawson	Interlake	1956	9,400	43	1.2	38	7	30	119		
57.	Devils Basin	Musselshell	Heath	1919	1,200	24	1.02	11	17	22	25		
58.	Diamond Point	Roosevelt	Red River	1976	11,900	47		26					
59.	Divide	Sheridan	Madison	1979	7,900	33	1.35	25	7	42	10		2
60.	Dry Creek	Carbon	Virgile	1929	2,600	65	1.01	60	15	65	106		
61.	Dwyer	Sheridan	Ratcliffe	1960	8,000	37	1.32	38	11	56	318	7	1
62.	Eagle	Richland	Madison	1977	8,900	32	1.22	15	9	35	7		3
63.	Elk Basin	Carbon	Madison	1942	5,300	28	1.12	224	12	9	32		1
64.	Elk Basin	Carbon	Tensleep	1942	5,000	29	1.16	124	11	10	42		
65.	Elk Basin Northwest	Carbon	Tensleep	1964	6,000	37	1.15	27	12	22	33	3	
66.	Enid North	Richland	Red River	1979	11,800	47	1.75	8	7	34	11		
67.	Fairview	Richland	Madison	1981	9,500								
68.	Fairview	Richland	Red River	1965	12,700	47	1.7	35	11	28	19		2
69.	Fairview East	Richland	Red River	1981	12,800	48	1.5	24	13	32	5		
70.	Fairview West	Richland	Ratcliffe	1980	9,200	37		60	3				
71.	Fertile Prairie	Fallon	Red River	1952	9,300	29	1.2	6	14	27	30		
72.	Fishhook	Sheridan	Red River	1980	11,200	41	1.28	10	10	31	9		1
73.	Fiat Coulee	Liberty	Swift	1933	2,900	37	1.1	18	21	35	35	4	
74.	Fiat Lake	Sheridan	Ratcliffe	1964	6,500	33	1.26	14	15	45	12	21	8
75.	Fiat Lake South	Sheridan	Ratcliffe	1966	6,500	32	1.26	9	12	45	44		
76.	Fort Gilbert	Richland	Madison	1981	9,200	34		358					2
77.	Fort Gilbert	Richland	Red River	1970	12,500	48	1.89	42	12	20	8		
78.	Four Mile Creek	Richland	Red River	1975	12,500	47	1.5	35	15	35	6		
79.	Four Mile Creek West	Richland	Red River	1976	12,500	45	1.3	15	13	40	13		
80.	Fox Creek	Richland	Mission Canyon	1978	8,900	29	1.2	71	3	30	3		
81.	Frannie	Carbon	Tensleep	1929	2,700	27	1.02	29	19	16	54		
82.	Fred and George	Toole	Sunburst	1963	2,600	39	1.2	31	27	30	15	14	1

# SUMMARY OF PRODUCING OIL FIELDS - 1982

PORO-SITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1982 PRODUCTION		CUMULATIVE PRODUCTION 1-1-83 (M BBLs)	RESERVES (M BBLs)	LINE NO.
		PRIMARY	SECONDARY		(M BBLs)	BBLs/ACRE	PRIMARY (M BBLs)	SECONDARY (M BBLs)	TOTAL (M BBLs)	BBLs./ACRE	BBLs./ACRE FT.	M BBLs	BOPD			
14	32	7		2,560	30,150	11,780	1,970		1,970	770	30	309,112	847	1,009	961	1.
22	42	40	5	120	1,584	13,200	630	180	810	6,750	482	6,886	19	798	12	2.
				160						9,456		9,456	26	15	37	3.
9	32	4		2,240	27,446	12,252	1,020		1,020	455	11	106,126	291	372	648	4.
7	20	7		320	3,041	9,503	220		220	688	20	41,565	114	88	132	5.
6	45	14		640	1,311	2,048	180		180	281	23	27,497	75	118	62	6.
15	43	2		640	15,768	24,637	370		370	578	15	13,111	36	280	90	7.
9	35	21		280	2,353	8,403	490		490	1,750	88	7,080	19	472	18	8.
26	23	56	28	8,200	114,737	13,992	64,740	67,650	132,390	16,145	1,615	2,950,160	8,083	119,528	12,862	9.
15	30	45		480	6,279	13,081	2,810		2,810	5,854	266	51,231	140	2,504	306	10.
16	30	43		160	2,284	14,275	990		990	6,188	269	11,204	31	929	61	11.
14	36	43		640	2,845	44,445	1,210		1,210	1,891	172	52,608	144	1,011	199	12.
16	35	81		80	1,086	13,575	880		880	11,000	647	24,467	67	866	14	13.
17	40	81	1	440	7,510	17,068	6,100	230	6,330	14,386	654	47,668	131	6,281	49	14.
40	10	1		640	5,458	8,528	80		80	125	31	34,548	95	48	32	15.
15	35	23	22	280	2,862	10,221	650	1,100	1,750	6,250	417	37,378	102	1,207	543	16.
10	60	3		640	4,708	7,356	160		160	250	8	19,903	55	142	18	17.
22	16	14		160	1,087	6,856	150		150	938	85	6,584	18	135	15	18.
12	31	23		2,000	40,305	20,152	9,290		9,290	4,645	145	118,544	325	8,839	451	19.
				640						18,171		18,171	50	102	25	20.
11	49	162		80	167	2,087	270		270	3,375	563	5,313	15	233	37	21.
12	30	6		400	2,581	6,452	150		150	375	38	20,775	57	110	40	22.
15	37	38		160	2,040	12,750	780		780	4,875	244	57,077	156	599	181	23.
5	40	13		960	6,384	6,650	840		840	875	22	40,546	111	569	271	24.
10	35	39		960	5,695	5,932	2,200		2,200	2,292	115	56,864	156	1,981	219	25.
12	30	5		960	7,360	7,666	350		350	365	18	53,906	148	110	240	26.
14	35	14		1,600	22,591	14,119	3,190		3,190	1,994	66	85,443	234	2,056	1,134	27.
				640						13,009		36	17	14	28.	
				320						9,928		27	13	13	29.	
13	30	20	11	11,040	324,750	29,415	64,310	25,600	89,910	8,144	163	1433,120	3,926	66,540	23,370	30.
11	30	80		1,440	19,031	13,215	15,130		15,130	10,507	420	103,012	282	14,351	779	31.
2	41	26		480	1,589	3,310	410		410	854	18	79,310	217	105	305	32.
8	40	18		320	3,339	10,434	610		610	1,906	33	17,134	47	540	70	33.
11	34	8		160	646	4,037	50		50	313	22	11,061	30	39	11	34.
12	27	13		320	2,007	6,271	260		260	813	68	32,250	88	161	79	35.
22	40	132	8	440	2,458	5,586	3,240	200	3,440	7,818	1,303	13,970	38	3,301	139	36.
18	40	378	1	320	6,094	19,043	23,060	100	23,160	72,375	2,895	9,003	25	23,107	53	37.
22	40	1		640	3,575	5,585	30		30	47	8	13,179	36		30	38.
21	19	9	5	1,160	70,972	61,182	6,400	3,760	10,160	8,759	172	39,039	107	9,403	257	39.
6	35	76		320	726	2,268	550		550	1,719	143	27,955	77	507	43	40.
				640						43,840		120	145	138	41.	
5	30	36		320	756	2,362	270		270	844	84	27,707	76	125	145	42.
11	27	2		320	4,039	12,621	70		70	219	7	9,431	26	46	24	43.
18	35	6		1,920	33,799	17,603	2,110		2,110	1,099	34	165,513	453	983	1,127	44.
13	28	5		1,920	17,926	9,336	820		820	427	24	89,585	245	429	391	45.
10	38	25		800	5,624	7,030	1,410		1,410	1,763	93	257,662	706	551	859	46.
				160						3,540		10	118	8	47.	
15		9		1,600	26,599	16,624	2,280		2,280	1,425	95	69,009	189	2,059	221	48.
				320						9,184		25	77	19	49.	
12	16	9		1,280	32,031	25,024	2,970		2,970	2,320	58	102,973	282	1,676	1,294	50.
15	35	35	6	29,360	366,738	12,491	129,230	34,440	163,670	5,575		5,575	310	1,247,720	3,418	51.
16	35	4		1,280	13,770	10,757	570		570	445	20	57,937	159	326	244	52.
9	20			320						8,669		24	24	7	53.	
11	40	10		640	2,979	4,654	310		310	484	48	78,835	216	134	176	54.
				240				48		17,138		47	56	47	55.	
7	30	119		160	1,926	12,037	2,290		2,290	14,313	377	4,772	13	2,285	5	56.
17	22	25		40	444	11,100	110		110	2,750	250	11,158	31	99	11	57.
				640						84,128		230	322	32	58.	
7	42	10		2,240	13,066	5,833	1,370		1,370	612	24	303,184	831	623	747	59.
15	65	106		160	3,871	24,193	4,090		4,090	25,563	426	4,908	13	4,089	1	60.
11	56	318	7	1,760	19,025	10,809	60,520	3,400	63,920	36,318	956	116,159	318	62,622	1,298	61.
9	35	7		3,040	16,963	5,579	1,170		1,170	385	26	209,436	574	528	642	62.
12	9	32		1,040	176,212	169,434	57,230		57,230	55,029		55,029	246	358,524	982	63.
11	10	42		680	55,829	82,101	23,180		23,180	34,088	275	274,549	752	20,611	2,569	64.
12	22	33	3	160	2,728	17,050	900	300	1,200	7,500	278	7,923	22	1,199	1	65.
7	34	11		960	1,573	1,638	180		180	188	24	35,761	98	85	95	66.
				800						42,726		117	60	86	67.	
11	28	19		2,880	36,432	12,650	6,820		6,820	2,368	68	257,196	705	6,587	233	68.
13	32	5		640	7,023	10,973	320		320	500	21	107,843	295	175	145	69.
3				160						25,655		70	42	61	70.	
14	27	30		640	2,537	3,964	750		750	1,172	195	38,534	106	508	242	71.
10	31	9		1,280	5,353	4,182	470		470	367	37	220,679	605	250	220	72.
21	35	35	4	800	13,863	17,328	4,920	770	5,690	7,113	395	164,440	451	3,726	1,964	73.
15	45	12	21	8,320	59,168	7,111	7,290	13,180	20,470	2,460	176	427,684	1,172	12,826	7,644	74.
12	45	44		960	3,511	3,657	1,530		1,530	1,594	177	66,051	181	948	582	75.
				2,240						163,959		449	250	232	76.	
12	20	8		960	15,888	16,550	1,340		1,340	1,396	33	31,667	87	1,210	130	77.
15	35	6		320	5,648	17,649	340		340	1,063	30	23,983	66	268	72	78.
13	40	13		640	4,469	6,982	560		560	875	58	36,266	99	175	385	79.
3	30	3		160	1,542	9,637	50		50	313	4	12,479	34	12	38	80.
19	16	54		40	1,408	35,199	760		760	19,000	655	6,996	19	732	28	81.
27	30	15	14	1,480	56,060	37,878	8,240	4,800	13,040	8,811	284	194,950	534	12,237	803	82.

LINE NO.	FIELD	COUNTY	PRODUCING FORMATION	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR %	
											PRIMARY	SECONDARY
83.	Frog Coulee	Richland	Red River	1979	11,000	49	1.42	15	18	35	7	
84.	Gage	Musselshell	Amsden	1944	6,000							
85.	Gas City	Dawson	Red River	1955	8,900	38	1.28	25	12	35	44	5
86.	Glendive	Dawson	Stoney Mountain	1952	8,900	38	1.24	147	8	35	12	
87.	Goose Lake	Sheridan	Ratcliffe - RR	1962	7,000	34	1.2	40	16	55	8	3
88.	Grabben Coulee	Sheridan	Madison	1961	2,900	34	1.1	15	12	30	7	
89.	Granview East	Liberty	Swift	1978	2,500							
90.	Green Coulee	Sheridan	Red River	1981	11,100			14				
91.	Gumbo Ridge	Rosebud	Tyler	1975	4,900	32	1.1	16	13	35	34	33
92.	Gypsy Basin	Teton & Pondera	Sawtooth	1979		36		10				
93.	Hay Creek	Richland	Mission Canyon	1969	9,600	39	1.15	40	5		5	
94.	Hay Creek	Richland	Red River	1969	12,600	46	1.9	53	12	30	8	
95.	Hiawatha	Musselshell	Tyler	1967	5,000	33	1.15	34	12	25	61	
96.	Hibbard	Rosebud	Amsden	1960	4,900	31	1.05	7	3	36	443	
97.	Highfive	Rosebud	Tyler	1976	5,600	33	1.15	20	20		16	
98.	Highview	Pondera	Madison	1967	3,200	31	1.1	8	17	32	2	
99.	Honker	Sheridan	Red River	1980	11,110	39	1.4	30	14	58	3	
100.	Injun Creek	Rosebud	Tyler	1981	6,000	37						
101.	Intake II	Richland	Red River	1981	12,400	43	1.2	20	13	30	4	
102.	Jim Coulee	Musselshell	Tyler	1971	3,700	33	1.1	37	15	33	12	13
103.	Jim Coulee North	Musselshell	Tyler	1972	29	29	1.6	30	18	54	79	
104.	Katy Lake North	Sheridan	Mission Canyon	1981		32						
105.	Katy Lake North	Sheridan	Red River	1979	11,300	46	1.42	19	15	30	13	
106.	Keg Coulee	Musselshell	Tyler	1960	4,600	33	1.15	19	14	32	72	3
107.	Keg Coulee North	Musselshell	Tyler	1964	4,600	33	1.15	14	12	32	53	
108.	Kelley	Musselshell	Tyler	1966	4,400	33	1.15	50	13	30	38	
109.	Kevin Sunburst	Toole	Sunburst	1922	1,500	32	1.08	7	20	35	31	3
110.	Kincheloe Ranch West	Rosebud	Tyler	1979	5,500	35						
111.	Laird Creek West	Liberty	Swift	1968	2,800	39	1.13	14	16	50	23	2
112.	Lambert	Richland	Red River	1980	12,200	44		7	13	40		
113.	Leary	Powder River	Muddy	1969	5,800	41	1.15	7	17	33	110	
114.	Little Beaver	Fallon	Red River	1952	8,300	29	1.4	37	12	35	22	23
115.	Little Beaver East	Fallon	Red River	1954	8,300	30	1.5	24	13	35	38	
116.	Little Phantom	Toole	Sunburst	1977								
117.	Little Wall Creek	Musselshell	Tyler	1970	3,700	33	1.1	40	15	33	15	
118.	Lodge Grass	Big Horn	Tensleep	1964	6,520	22	1.16	15	15	34	20	
119.	Lone Butte	Richland	Red River	1974	12,400	45	1.7	14	11	30	11	
120.	Lone Tree Creek	Richland	Red River	1970	12,500	47	1.86	19	11	30	18	
121.	Long Creek	Roosevelt	Charles	1976	6,500	38		30		20		
122.	Long Creek West	Roosevelt	Nisku	1977	7,700	39		24	18	20		
123.	Lookout Butte	Fallon	Lodgepole	1961	8,900	33	1.15	15	15	25	51	19
124.	Lowell	Sheridan	Red River	1979	11,300	35		7	8	45		
125.	Mason Lake	Musselshell	Dakota	1964	4,200	47	1.1	12	15	43	20	
126.	McCabe	Roosevelt	Ratcliffe	1973	8,700	37	1.5	20	13	40	5	
127.	Medicine Lake	Sheridan	Red River	1979	11,700	44	1.78	31	17	31	5	
128.	Melstone	Musselshell	Tyler	1948	4,400	34	1.09	25	15	30	44	
129.	Midby	Sheridan	Red River	1981	10,500	41	1.49	29	11	48	4	
130.	Miners Coulee	Toole	Sunburst	1966	2,400	39	1.1	6	14	30	96	
131.	Mondak West	Richland	Duperow	1979	10,600							
132.	Mondak West	Richland	Madison	1976	9,200	30	1.3	100	4	60	9	
133.	Mondak West	Richland	Red River	1976	12,200	48	1.64	45	10	43	14	
134.	Monarch	Fallon	Siluro-Ord	1958	8,400	32	1.1	31	7	35	21	4
135.	Mosser Dome	Yellowstone	Kootenai	1936	1,000	22	1.01	15	24	30	5	
136.	Mustang	Richland	Red River	1979	12,500	47	1.41	17	12		5	
137.	Nohly	Richland	Red River	1972	12,900	46	1.43	27	10	40	27	
138.	North Fork	Richland	Madison	1977	9,500	38						
139.	North Fork	Richland	Red River	1976	12,700	46	1.5	12	14	57	14	
140.	Ollie	Fallon	Red River	1980	10,200	36		56				
141.	Otis Creek & South	Richland	Red River	1970	12,700	48	1.76	23	12	35	10	
142.	Otter Creek	Sheridan	Red River	1981	11,000	44						
143.	Outlook	Sheridan	Duperow	1964	8,200	39	1.5	15	10	25	164	
144.	Outlook	Sheridan	Red River	1956	9,000	38	1.12	20	8	30	161	
145.	Outlook	Sheridan	Winnipegosis	1971	9,000	39	1.12	18	8	30	34	
146.	Outlook South	Sheridan	Winnipegosis	1957	9,100	39	1.12	18	8	30	64	
147.	Outlook West	Sheridan	Winnipegosis	1958	9,100	39	1.12	16	8	30	30	
148.	Oxbow	Roosevelt	Red River	1978	12,600	47	1.5	18	12	45	9	
149.	Palomino	Roosevelt	Nisku	1980	7,500	48	1.15	39	16	20	7	
150.	Pelican	Sheridan	Red River	1979	11,400	47	1.3	19	6	26	12	
151.	Penneil	Fallon	Mission Canyon	1955	7,000	31	1.1	38	3	30	58	9
152.	Pine	Prairie	Red River, Madison	1952	8,400	34	1.17	32	12	30	22	23
153.	Pondera	Pondera	Sun River	1927	2,100	34	1.2	15	16	31	22	
154.	Pondera Coulee	Pondera	Sun River	1978	2,500	34						
155.	Poplar East	Roosevelt	Charles	1952	5,500	40	1.1	25	11	30	174	
156.	Poplar East	Roosevelt	Heath	1969	4,900	38	1.1	8	11	50	274	
157.	Poplar East	Roosevelt	Nisku	1969	7,300	42	1.4	12	8	50	106	
158.	Poplar Northwest	Roosevelt	Madison	1952	6,300	40	1.1	16	10	45	9	
159.	Prairie Elk	McCone	Charles	1965	6,100	32	1	5	12	35	14	
160.	Prichard Creek	Toole	Sunburst	1970	2,700							
161.	Putnam	Richland	Madison	1978	9,500	34	1.42	92	6	35	2	
162.	Putnam	Richland	Red River	1969	11,900	41	1.75	16	9	30	20	
163.	Rabbit Hills	Blaine	Sawtooth	1972	4,000	21	1.15	12	18	16	47	
164.	Ragged Point	Musselshell	Tyler	1956	3,600	32	1.11	13	14	32	54	10

WELL ID	DIAPHRAGM	DEPTH (FT)	POROSITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA (ACRES)	DOIP		ULTIMATE RECOVERY					1982 PRODUCTION		CUMULATIVE PRODUCTION 1-1-83 (M BBLs)	RESERVES (M BBLs)	LINE NO.
					PRIMARY	SECONDARY		(M BBLs)	BBLs/ACRE	PRIMARY (M BBLs)	SECONDARY (M BBLs)	TOTAL (M BBLs)	BBLs./ACRE	BBLs./ACRE FT.	BBLs	BOPD			
15	18	35	7	160	1,534	9,587	110	110	688	46	11,697	32	106	4	83.				
				120							10,922	30	599	15	84.				
25	12	35	44	5	1,600	18,910	11,818	8,290	1,760	10,050	6,281	251	124,782	342	9,295	755	85.		
17	8	35	12		2,240	107,126	47,824	12,450		12,450	5,558	38	149,963	411	11,806	844	86.		
10	16	55	8	3	5,440	101,288	18,619	8,060	3,580	11,640	2,140	54	214,905	589	7,699	3,941	87.		
5	12	30	7		3,000	26,659	8,886	1,750		1,750	583	39	87,900	241	1,529	221	88.		
				80							4,291	12	21	33	89.				
4				640							27,492	75	42	11	90.				
6	13	35	34	33	160	1,526	9,537	520	760	1,280	8,000	500	54,076	148	449	831	91.		
0				640							30,882	85	342	91	92.				
10	5		5		320	4,317	13,490	230		230	719	18	12,158	33	187	43	93.		
53	12	30	8		640	11,634	18,178	960		960	1,500	28	18,313	50	886	74	94.		
34	12	25	61		120	2,477	20,641	1,500		1,500	12,500	368	26,520	73	1,406	34	95.		
7	3	36	443		80	79	987	350		350	4,375	625	21,618	59	202	148	96.		
20	20		16		560	15,111	26,983	2,360		2,360	4,214	211	150,853	413	1,395	965	97.		
8	17	32	2		200	1,304	6,520	20		20	100	13	5,471	15	19	1	98.		
10	14	58	3		320	3,128	9,775	90		90	281	9	14,742	40	41	49	99.		
				80							37,862	104	69	30	100.				
20	13	30	4		640	7,530	11,765	300		300	469	23	146,597	402	197	103	101.		
17	15	33	12	13	480	12,588	26,225	1,530	2,880	4,410	9,188	248	106,435	292	3,442	968	102.		
10	18	54	79		40	482	12,050	380		380	9,500	317	8,279	23	260	120	103.		
				120							118,171	324	143	214	104.				
9	15	30	13		1,920	20,927	10,899	2,690		2,690	1,401	74	317,005	869	1,215	1,475	105.		
9	14	32	72	3	520	6,345	12,201	4,580	550	5,130	9,885	519	52,827	145	4,980	150	106.		
4	12	32	53		120	925	7,708	490		490	4,083	292	19,281	53	393	97	107.		
10	13	30	38		80	2,456	30,699	940		940	11,750	235	10,098	28	906	34	108.		
7	20	35	31	3	36,360	237,679	6,536	73,430	7,970	81,400	2,239	320	612,644	1,678	74,398	7,002	109.		
				160							70,468	193	237	295	110.				
4	16	50	23	2	240	1,845	7,687	420	130	550	2,292	164	9,131	25	532	18	111.		
7	13	40			1,280						89,247	245	148	264	112.				
7	17	33	110		120	645	5,375	710		710	5,917	845	29,612	81	445	265	113.		
7	12	35	22	23	2,400	38,382	15,992	8,380	8,850	17,230	7,179	194	399,639	1,095	10,049	7,181	114.		
4	13	35	38		1,440	15,104	10,488	5,710		5,710	3,965	165	112,592	308	4,777	933	115.		
				40							5,675	16	35	18	116.				
0	15	33	15		1,120	31,754	28,351	4,770		4,770	4,259	106	300,475	823	2,459	2,311	117.		
5	15	34	20		160	1,589	9,931	310		310	1,938	129	5,673	16	265	45	118.		
4	11	30	11		640	3,148	4,918	350		350	547	39	11,756	32	335	15	119.		
9	11	30	18		2,880	17,574	6,102	3,250		3,250	1,128	59	132,563	363	2,713	537	120.		
10		20			160						4,628	13	44	33	121.				
4	18	20			320						46,338	127	315	132	122.				
5	15	25	51	19	5,120	58,286	11,383	29,570	1,300	30,870	6,029	402	525,401	1439	20,506	10,364	123.		
7	8	45			960						42,630	117	109	123	124.				
2	15	43	20		560	4,052	7,235	820		820	1,464	122	72,524	199	660	160	125.		
10	13	40	5		480	3,873	8,068	200		200	417	21	30,357	83	120	80	126.		
11	17	31	5		3,200	50,715	15,848	2,730		2,730	853	28	296,052	811	1,474	1,256	127.		
5	15	30	44		480	8,968	18,683	3,930		3,930	8,188	328	193,758	531	2,663	1,267	128.		
19	11	48	4		160	1,382	8,637	60		60	375	13	33,181	91	49	11	129.		
6	14	30	96		40	166	4,150	160		160	4,000	667	2,623	7	147	13	130.		
				160							14,794	41	81	21	131.				
0	4	60	9		4,160	39,721	9,548	3,760		3,760	904	9	394,728	1,081	2,970	790	132.		
5	10	43	14		2,240	27,179	12,133	3,850		3,850	1,719	38	370,230	1,014	1,814	2,036	133.		
1	7	35	21	4	2,400	23,875	9,947	5,100	960	6,060	2,525	81	127,592	350	4,612	1,448	134.		
5	24	30	5		440	8,517	19,356	460		460	1,045	70	8,531	23	308	152	135.		
7	12		5		960	10,775	11,223	510		510	531	31	58,370	160	248	262	136.		
7	10	40	27		640	5,625	8,789	1,520		1,520	2,375	88	50,231	138	1,061	459	137.		
				640							25,192	69	122	141	138.				
2	14	57	14		320	1,196	3,737	170		170	531	44	12,089	33	143	27	139.		
6				160							18,396	50	51	92	140.				
3	12	35	10		1,280	10,122	7,907	1,010		1,010	789	34	82,384	226	725	285	141.		
				160							5,229	14	19	8	142.				
5	10	25	164		160	931	5,818	1,530		1,530	9,563	638	50,120	137	1,436	94	143.		
8	8	30	161		480	3,724	7,758	6,010		6,010	12,521	626	50,003	137	5,642	368	144.		
8	8	30	34		320	2,234	6,981	750		750	2,344	130	16,199	44	615	135	145.		
8	8	30	64		160	1,117	6,981	720		720	4,500	250	5,553	15	670	50	146.		
6	8	30	30		320	1,986	6,206	600		600	1,875	117	10,162	28	584	16	147.		
8	12	45	9		320	1,966	6,143	180		180	563	31	8,755	24	158	22	148.		
9	16	20	7		480	16,165	33,677	1,060		1,060	2,208	57	207,296	568	398	662	149.		
9	6	26	12		320	1,611	5,034	190		190	594	31	20,612	56	88	102	150.		
8	3	30	58	9	22,080	124,268	5,628	71,790	25,600	97,390	4,411	116	3,101,870	8498	52,840	44,550	151.		
2	12	30	22	23	15,520	276,621	17,823	62,020	54,000	116,020	7,476	234	1,934,530	5,300	95,648	20,372	152.		
5	16	31	22		12,600	134,896	10,706	30,160		30,160	2,394	160	416,085	1,140	22,496	7,664	153.		
				80							2,686	7	38	26	154.				
5	11	30	174		2,000	27,153	13,576	47,120		47,120	23,560	942	255,827	701	43,454	3,666	155.		
8	11	50	274		40	124	3,100	340		340	8,500	1,063	5,353	15	252	88	156.		
2	8	50	106		160	426	2,662	450		450	2,813	234	3,596	10	223	227	157.		
6	10	45	9		3,360	20,853	6,206	1,830		1,830	545	34	99,764	273	1,535	295	158.		
5	12	35	14		160	484	3,024	70		70	438	88	3,698	10	64	6	159.		
				200							4,735	13	116	10	160.				
2	6	35	2		800	15,682	19,602	320		320	400	4	40,997	112	112	208	161.		
6	9	30	20		2,880	12,870	4,468	2,530		2,530	878	55	239,513	656	2,211	319	162.		
2	18	16	47		200	2,448	12,240	1,140		1,140	5,700	475	59,404	163	587	553	163.		
3	14	32	54	10	480	4,152	8,650	2,250	1,210	3,460	7,208	554	38,379	105	3,234	226	164.		



WELL ID	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1982 PRODUCTION		CUMULATIVE PRODUCTION 1-1-83 (M BBLs)	RESERVES (M BBLs)	LINE NO.
		PRIMARY	SECONDARY		(M BBLs)	BBLs/ACRE	PRIMARY (M BBLs)	SECONDARY (M BBLs)	TOTAL (M BBLs)	BBLs / ACRE	BBLs / ACRE FT.	BBLs	BOPD			
2	60	52		240	2,031	8,462	1,050		1,050	4,375	175	256,995	704	459	591	165.
0		11		1,600	11,388	7,117	1,240		1,240	775	78	96,255	264	1,145	95	166.
9		36		160	1,756	10,975	630		630	3,938	179	13,710	38	573	57	167.
2	10	15		320	6,231	19,471	910		910	2,844	86	41,420	113	675	235	168.
5	27	51		320	3,098	9,681	1,590		1,590	4,969	124	83,452	229	840	750	169.
2	30	52	14	2,120	13,815	6,516	7,120	2,300	9,420	4,443	404	247,617	678	7,310	2,110	170.
				5,120								216,876	594	431	888	171.
				960								62,532	171	195	259	172.
7				320								92,977	255	115	124	173.
9	29			320	6,114	19,106	2,040	300	2,340	7,313	366	18,881	52	2,224	116	174.
3	30	33	2	320	10,680	20,538	3,850		3,850	7,404	231	49,460	136	3,231	619	175.
8	15	28		160	1,357	8,481	380		380	2,375	238	2,145	6	370	10	176.
5	30	21		160	2,149	13,431	460		460	2,875	85	4,991	14	453	7	177.
8		64		320	220	687	140		140	438	146	15,235	42	77	63	178.
0	30	29		160	2,130	13,312	610		610	3,813	153	10,008	27	494	116	179.
6	30	26		1,600	7,219	4,511	1,870		1,870	1,169	65	82,032	225	1,464	406	180.
8	30	68		320	2,896	9,050	1,970		1,970	6,156	246	10,192	28	1,953	17	181.
9	30	54	2	320	3,082	9,631	1,650	250	1,900	5,938	220	5,582	15	1,885	15	182.
3	50	8		4,000	21,302	5,325	1,760		1,760	440	8	334,795	917	691	1,069	183.
				1,600								299,776	821	770	1,980	184.
4	45	9		800	5,147	6,433	450		450	563	40	46,083	126	231	219	185.
4	47	13		640	3,889	6,076	520		520	813	43	73,580	202	166	354	186.
4	48	15		200	2,915	14,575	430		430	2,150	67	14,084	39	382	48	187.
0	33	38		320	1,437	4,490	550		550	1,719	123	16,147	44	406	144	188.
1	35	10		480	4,083	8,506	420		420	875	38	14,051	38	332	88	189.
7	40	14		1,280	8,341	6,516	1,130		1,130	883	29	50,884	139	931	199	190.
4	50	11		3,360	24,062	7,161	2,630		2,630	783	13	213,523	585	1,941	689	191.
1	45	8		640	5,301	8,282	440		440	688	23	50,597	139	51	389	192.
5	75	2		1,280	24,294	18,979	460		460	359	1	91,292	250	261	199	193.
0	40	4		320	2,085	6,515	80		80	250	9	11,297	31	70	10	194.
9	35	12		2,240	23,920	10,678	2,940		2,940	1,313	33	153,508	421	2,411	529	195.
2	25	6		1,920	21,705	11,304	1,230		1,230	641	38	125,354	343	859	371	196.
6	40	4		4,480	68,817	15,360	2,730		2,730	609	14	342,116	937	1,826	904	197.
7	35	17		120	2,572	21,433	440		440	3,667	147	4,544	12	436	4	198.
5	35	16		1,160	16,713	14,407	2,730		2,730	2,353	118	56,858	156	2,236	494	199.
5	35	8		120	1,335	11,125	110		110	917	61	9,728	27	67	43	200.
1		4		960	23,992	24,991	870		870	906	22	73,616	202	642	228	201.
8	20	3		160	900	5,625	30		30	188	11	13,233	36	13	17	202.
2	30	42		640	1,877	2,932	780		780	1,219	135	16,334	45	738	42	203.
0	40	3		320	3,494	10,918	120		120	375	10	20,555	56	38	82	204.
8	40	4		640	7,277	11,370	290		290	453	11	47,905	131	88	202	205.
4	20	235	14	160	2,971	18,568	6,990	3,080	10,070	62,938	2,518	15,355	42	10,051	19	206.
9	35	37	7	3,440	85,239	24,778	31,830	9,540	41,370	12,026	401	690,390	1,891	39,605	1,765	207.
7	50	1		640	7,646	11,946	70		70	109	4	11,509	32	58	12	208.
1	55			1,760								190,167	521	197	184	209.
												53,605	147	120	272	210.
				40								16,032	44	60	9	211.
5	30	73		800	11,554	14,442	8,390		8,390	10,488	420	102,735	281	7,574	816	212.
8	30	82		160	2,457	15,356	2,020		2,020	12,625	421	7,797	21	1,975	45	213.
2	30	116		160	596	3,725	690		690	4,313	539	4,121	11	682	8	214.
8	30	6		320	1,589	4,965	90		90	281	18	21,373	59	66	24	215.
6	40	4		840	9,248	11,009	370		370	440	26	43,939	120	275	95	216.
	25			640								102,492	281	172	175	217.
4	43	5		1,920	11,320	5,895	590		590	307	8	79,764	219	301	289	218.
4	45	8		2,240	20,071	8,960	1,630		1,630	728	30	158,132	433	972	658	219.
	67			40								3,146	9	3	15	220.
0	30	40		800	8,689	10,861	3,470		3,470	4,338	310	75,399	207	2,498	972	221.
	1			40								797	2	23	31	222.
8	23	70		160	858	5,362	600		600	3,750	313	3,655	10	589	11	223.
5	35	1579		40	447	11,175	7,060		7,060	176,500	12,607	16,802	46	7,024	36	224.
4	23	13		160	2,085	13,031	270		270	1,688	169	11,650	32	254	16	225.
3	20	15		3,120	41,127	13,181	6,190		6,190	1,984	132	208,782	572	4,754	1,436	226.
3	54	94		80	371	4,637	350		350	4,375	365	10,208	28	292	58	227.
				160								3,952	11	27	37	228.
3	35	30		480	4,357	9,077	1,320		1,320	2,750	229	28,504	78	927	393	229.
3	30	20	26	120	1,280	10,666	260	670	930	7,750	648	54,360	149	626	304	230.
3	23	131		960	3,537	3,684	4,620		4,620	4,813	438	12,940	35	4,594	26	231.
4	35	26		320	4,344	13,575	1,110		1,110	3,469	139	17,002	47	1,062	48	232.
0		10		640	2,979	4,654	310		310	484	81	42,323	116	174	136	233.
6	45	6		160	1,404	8,775	90		90	563	31	12,258	34	55	35	234.
6	48	42		120	572	4,766	240		240	2,000	400	9,462	26	232	8	235.
				160								8,299	23	19	5	236.
												1,521	4		32	237.
												30,917,311	84,705		228,560	238.

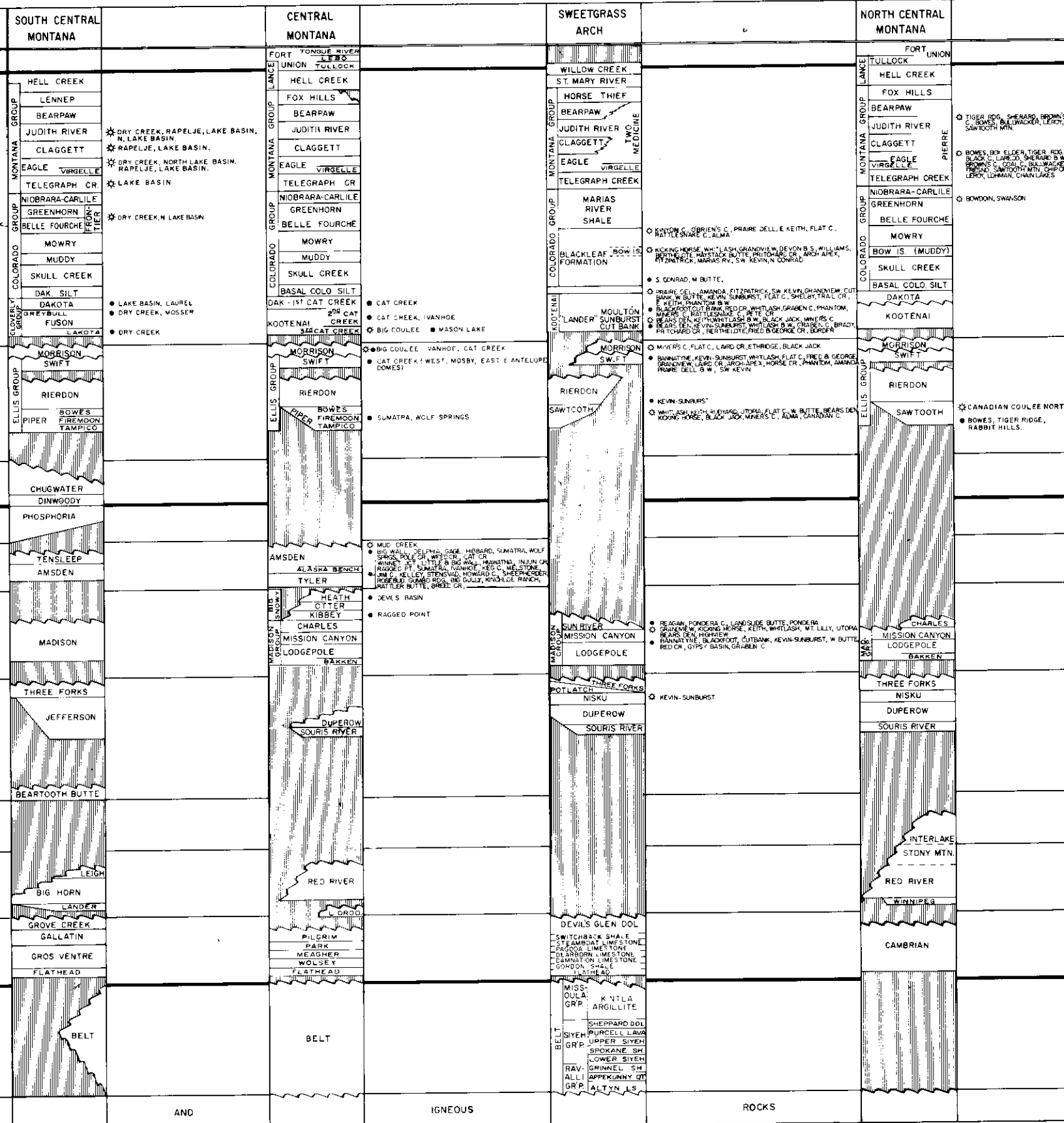




# GENERALIZED STRATIGRAPHIC CORRELATION CHART

SHOWING PRODUCTIVE FORMATIONS IN MONTANA OIL AND GAS FIELDS \*

\* OIL \* GAS



# ATION CHART

IELDS \*

NORTH CENTRAL MONTANA		NORTH POWDER RIVER BASIN		WILLISTON BASIN		PERIOD	ERA
<p>LANCASHIRE GROUP</p> <p>FORT UNION</p> <p>TULLOCK</p> <p>HELL CREEK</p> <p>FOX HILLS</p> <p>BEARPAW</p> <p>JUDITH RIVER</p> <p>CLAGGETT</p> <p>EAGLE</p> <p>PIERRE</p> <p>TELEGRAPH CREEK</p> <p>NIORRARA-CARLILE</p> <p>GREENHORN</p> <p>BELLE FOURCHE</p> <p>MOWRY</p> <p>BOW IS. (MUDDY)</p> <p>SKULL CREEK</p> <p>BASAL COLO SILT</p> <p>DAKOTA</p> <p>KOOTENAI</p> <p>MORRISON</p> <p>SWIFT</p> <p>RIERDON</p> <p>SAWTOOTH</p> <p>ELLIS GROUP</p> <p>CHUGWATER</p> <p>SPEARFISH</p> <p>MINNEKAHTA</p> <p>OPECHE</p> <p>TENSLEEP</p> <p>AMSDEN</p> <p>CHARLES</p> <p>MISSION CANYON</p> <p>LODGEPOLE</p> <p>BAKKEN</p> <p>THREE FORKS</p> <p>NISKU</p> <p>DUPEROW</p> <p>SOURIS RIVER</p> <p>DAWSON BAY</p> <p>PRAIRIE EVAP</p> <p>WINNIPEG</p> <p>ASHERN</p> <p>INTERLAKE</p> <p>STONY MTN.</p> <p>RED RIVER</p> <p>WINNIPEG</p> <p>CAMBRIAN</p>	<p> <ul style="list-style-type: none"> <li>TIGER RDG, SHERARD, BROWN'S, BOWES, SALLWACKER, LEROY, SAWTOOTH MTN.</li> <li>BOWES, BY ELDER, TIGER RDG, BLACK, LAREDO, SHERARD &amp; BROWN'S, COOK, C. BULLWACKER, FRENCH, SAWTOOTH MTN, SHIP CO, LEROY, LORMAN, CHAIN LAKES</li> <li>BOWDON, SWANSON</li> <li>CANADIAN COULEE NORTH</li> <li>BOWES, TIGER RIDGE, RABBIT HILLS.</li> </ul> </p>	<p> <ul style="list-style-type: none"> <li>ASH CR</li> <li>LISCOM CR, PAPPIN CR</li> <li>HARDON</li> <li>HAMMOND</li> <li>BELL CR, HAMMOND, BELL CR, WRIGHT CR, ROUGH CR, LEARY</li> <li>HAMMOND</li> <li>LODGE GRASS, SOAP CREEK, SNYDER</li> <li>SOAP CREEK.</li> </ul> </p>	<p> <ul style="list-style-type: none"> <li>ASH CR</li> <li>LISCOM CR, PAPPIN CR</li> <li>HARDON</li> <li>HAMMOND</li> <li>BELL CR, HAMMOND, BELL CR, WRIGHT CR, ROUGH CR, LEARY</li> <li>HAMMOND</li> <li>LODGE GRASS, SOAP CREEK, SNYDER</li> <li>SOAP CREEK.</li> </ul> </p>	<p> <ul style="list-style-type: none"> <li>CEGAR CREEK, PLEVNA</li> <li>CEGAR CREEK</li> </ul> </p>	<p>UPPER</p> <p>CRETACEOUS</p> <p>LOWER</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>LOWER ?</p> <p>PERMIAN</p> <p>PENNSYLVANIAN</p> <p>MISSISSIPPIAN</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>SILURIAN</p> <p>ORDOVICIAN</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p>	<p>MESOZOIC</p> <p>JURASSIC</p> <p>TRIASSIC</p> <p>PERMIAN</p> <p>PENNSYLVANIAN</p> <p>MISSISSIPPIAN</p> <p>DEVONIAN</p> <p>SILURIAN</p> <p>ORDOVICIAN</p> <p>CAMBRIAN</p> <p>PRE-CAMBRIAN</p> <p>ARCHEOZOIC</p>	

\*SOME FIELDS SHOWN ARE DEPLETED OR NO LONGER PRODUCTIVE