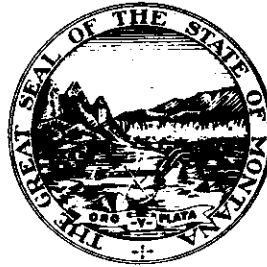


DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Ted Schwinden, Governor



ANNUAL REVIEW FOR THE YEAR 1980

Relating to

OIL AND GAS

Volume 24

BOARD OF OIL AND GAS CONSERVATION

R. A. CAMPBELL, Chairman
1222 North 27th Street
Billings, Montana 59101

C. J. IVERSON, Vice-Chairman
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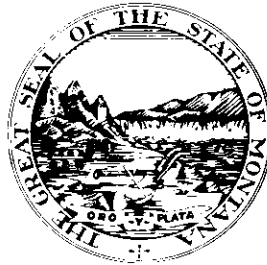
BERNT WARD
Plentywood, Montana 59254

H. V. "TED" NEES
5515 Sweetgrass
Billings, Montana 59101

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1980
SUMMARY OF YEAR ACTIVITIES

Oil Produced29,583,804 Bbls.

Oil Imported (Refined)

Canada - 17,627,330

North Dakota - 25,140

Wyoming - 19,050,468

36,702,938 Bbls.

Oil Exported (Transporters)22,031,161 Bbls.

Gas Withdrawals

Natural - 48,928,608

Associated - 4,873,480

53,802,088 Mcf.

Averages (366 days)

Oil Produced80,830 Bbls.

Oil Imported100,281 Bbls.

Oil Exported60,194 Bbls.

Natural Gas147,000 Mcf.



Board of Oil and Gas Conservation of the State of Montana

Ted Schwinden, Governor

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ADMINISTRATOR/PETR. GEOLOGIST
2535 ST. JOHN'S AVENUE
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EXECUTIVE SECRETARY
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Technical Office and Southern District Field Office . . . 2535 St. John's Ave., Billings, Montana 59102
Northern District Field Office 218 Main Street, Shelby, Montana 59474

Annual Review for the Year 1980 Volume 24

ACTIVITY REVIEW — MONTANA 1980

A record total of 952 wells were drilled in Montana in 1980, 149 more than in 1979. The 302 wildcats drilled included 12 gas and 26 oil new field discoveries. A total of 650 development wells resulted in 203 gas and 241 oil completions. Of the development wells drilled 10 were completed in new pay zones and 20 were significant field extensions.

This acceleration of drilling is expected to continue. The active acreage leasing and aggressive geological and geophysical exploration programs now being pursued indicate a very good outlook for future oil and gas development in Montana.

The total gas withdrawals for 1980 was 53.8 billion cubic feet which is nearly equal to the total gas produced in 1979. This includes 4.9 billion cubic feet of associated gas which continues to increase and was up by 1.7 billion cubic feet over last year's associated gas production, reflecting industry's continued effort to conserve all possible marketable gas.

Oil production continues to decline. This year's total of 29.6 MM bbls is down by approximately 373,000 barrels from the 1979 production. This general decline is shown in all areas except the Williston basin of eastern Montana where the oil output has steadily increased over the past five years. Oil and associated gas here are from the deeper Paleozoic carbonates, and the 1980 production of 17.7 MM bbls is up by 1.2 MM bbls from 1979.

The Overthrust Belt of western Montana continues to attract exploratory activity. Industry's seismic and geological study programs designed to evaluate and delineate drillable prospects along this major structural trend increased during 1980.

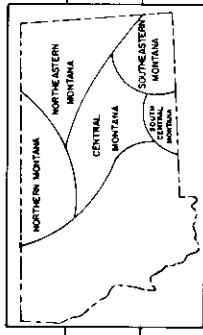
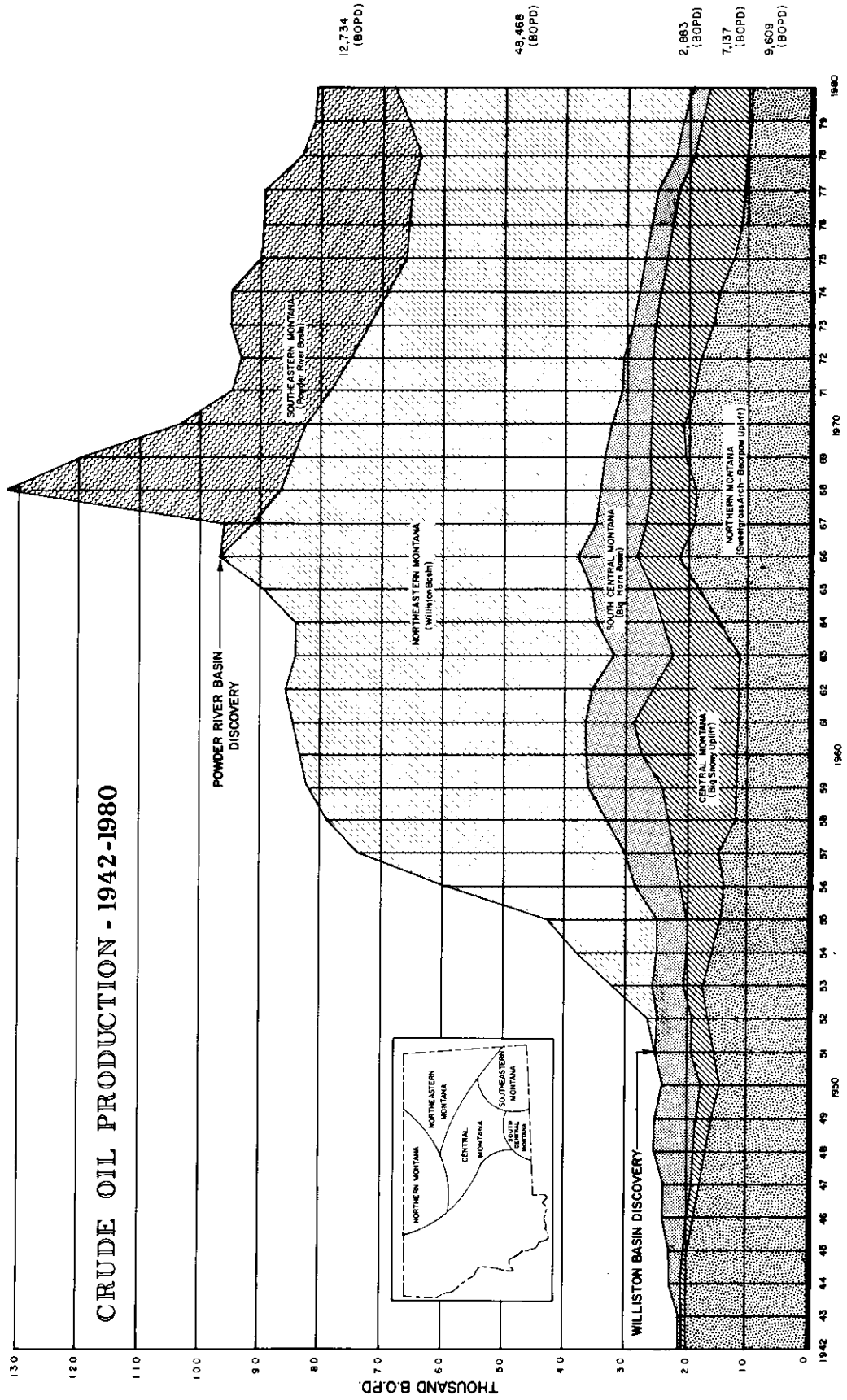
FIVE YEAR SUMMARY

	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>
Production, Northern Montana — Bbls.	4,200,539	4,060,957	3,671,322	3,536,296	3,516,807
South Central — Bbls.	1,246,005	1,210,064	1,095,737	1,131,798	1,055,105
Central — Bbls.	4,063,897	3,677,361	3,343,556	3,029,397	2,612,091
Williston Basin — Bbls.	14,496,380	14,621,635	15,103,853	16,546,576	17,739,142
Powder River Basin — Bbls.	8,807,439	9,110,037	7,252,869	5,713,032	4,660,659
TOTAL	<u>32,814,260</u>	<u>32,680,054</u>	<u>30,467,337</u>	<u>29,957,099</u>	<u>29,583,804</u>
No. of Producing Wells, Northern Montana	1,978	1,999	2,052	2,089	2,212
South Central	97	109	115	112	124
Central	316	343	347	340	358
Williston Basin	737	789	863	886	996
Powder River Basin	181	178	169	165	148
TOTAL	<u>3,309</u>	<u>3,418</u>	<u>3,546</u>	<u>3,592</u>	<u>3,838</u>
Average Daily Production/Well — BOPD,					
Northern Montana	5.8	5.6	4.9	4.6	4.3
South Central	35.1	30.4	26.1	27.7	23.2
Central	35.2	29.4	26.4	24.4	19.9
Williston Basin	53.8	50.8	48.9	51.2	48.7
Powder River Basin ...	133.3	140.2	117.6	94.9	86.0
STATE AVG.	<u>27.1</u>	<u>26.2</u>	<u>23.5</u>	<u>22.9</u>	<u>21.1</u>
Development Wells Drilled, Oil Wells	106	98	123	120	241
Gas Wells	264	220	223	235	203
Dry Holes	169	188	232	182	206
TOTAL	<u>539</u>	<u>506</u>	<u>578</u>	<u>537</u>	<u>650</u>
Exploratory Wells Drilled, Oil Wells	17	24	21	35	30
Gas Wells	8	19	15	20	12
Dry Holes	223	129	179	211	260
TOTAL	<u>248</u>	<u>172</u>	<u>215</u>	<u>266</u>	<u>302</u>
TOTAL WELLS DRILLED	787	678	793	803	952
TOTAL FOOTAGE DRILLED	2,826,301	2,482,379	2,968,842	3,147,341	4,032,032
AVERAGE DEPTH OF ALL WELLS	3,591	3,661	3,744	3,919	4,235

SUMMARY OF DRILLING BY COUNTIES — 1980
STATE OF MONTANA

County	Wildcats			Development			Total Wells	Footage Drilled	Average Depth
	Dry	Oil	Gas	Dry	Oil	Gas			
Beaverhead	2						2	23,048	11,524
Big Horn	7						7	36,173	5,168
Blaine	14			23		18	55	105,085	1,911
Carbon	1			4	2		7	24,199	3,457
Carter	8			1		7	16	29,445	1,840
Cascade	1						1	697	697
Chouteau	16		2	3		4	25	52,502	2,100
Custer	11						11	51,863	4,715
Daniels	1			1			2	17,409	8,704
Dawson	1	2					3	33,073	11,024
Fallon	2	2		1	2	4	11	68,854	6,259
Fergus	14						14	31,828	2,273
Garfield	3						3	25,211	8,404
Glacier	2	1	1	9	17	20	50	171,649	3,433
Golden Valley	4						4	9,478	2,370
Granite	1						1	5,486	5,486
Hill	13		1	8		17	39	85,885	2,202
Lake	1						1	3,415	3,415
Liberty	11	1		18	10	15	55	133,862	2,434
McCone	3	1			1		5	38,165	7,633
Musselshell	19			21	13		53	204,896	3,866
Park	1						1	1,800	1,800
Petroleum	3			4	1		8	20,820	2,602
Phillips	5					44	49	83,900	1,712
Pondera	26		3	12	16	31	88	190,196	2,161
Powder River	4			17	21		42	195,962	4,666
Prairie	1						1	10,156	10,156
Richland	9	12		12	41		74	821,719	11,104
Roosevelt	16	5		5	12		38	392,458	10,328
Rosebud	14	1		5	4		24	120,302	5,013
Sheridan	14	5		8	34		61	570,931	9,360
Stillwater	2			2	4	14	22	42,038	1,911
Sweetgrass	2			5			7	49,220	7,031
Teton	4		1	4	3	3	15	44,559	2,971
Toole	13		4	32	40	19	108	197,106	1,825
Treasure	2						2	5,040	2,520
Valley	1			1		7	9	12,559	1,395
Wibaux	2			1	2		5	50,045	10,009
Yellowstone	6			9	18		33	70,998	2,151
TOTALS	260	30	12	206	241	203	952	4,032,032	4,235

CRUDE OIL PRODUCTION - 1942-1980



GAS PRODUCTION DATA — 1980

14.73 PSIA @ 60°F

1980
Production
MCF

Field	County	Producing Formations	1980 Production MCF
Natural Gas			
Alma	Liberty	Blackleaf, Bow Island, and Sawtooth	2,317
Arch-Apex	Toole	Bow Island	246,544
Badlands	Hill	Eagle	363,737
Battle Creek	Blaine	Eagle	2,376,643
Bears Den	Liberty	Sawtooth and Sunburst	7,169
Bell Creek	Powder River	Muddy	357,704
Big Coulee	Golden Valley and Stillwater	Lakota and Morrison	857,667
Big Rock	Glacier	Blackleaf and Bow Island	695,924
Bills Coulee	Teton	Sunburst - Madison	407,208
Black Coulee	Blaine	Eagle	358,287
Blackfoot	Glacier	Dakota	33,879
Black Jack	Liberty	Sunburst, Swift, and Blackleaf	131,889
Bowdoin	Phillips and Valley	Bowdoin and Valley	8,587,680
Bowes	Blaine	Eagle	584,537
Browns Coulee	Hill	Judith River and Eagle	51,584
Browns Coulee, East	Hill	Eagle	48,507
Bullwacker and Area	Blaine and Chouteau	Judith River, Eagle (Virgelle)	1,220,256
Canadian Coulee	Hill and Liberty	Sawtooth	542,555
Cedar Creek	Fallon	Judith River and Eagle	1,743,365
Chain Lakes	Hill	Eagle	19,705
Chester Area	Liberty	Bow Island	11,822
Chinook, East	Blaine	Eagle	42,609
Chip Creek	Chouteau	Eagle - Virgelle	23,667
Coal Coulee	Hill	Eagle	61,812
Conrad Butte (Ledger Field)	Pondera and Toole	Bow Island	633,156
Cut Bank and Reagan	Glacier and Toole	Blackleaf, Moulton, Sunburst, Cut Bank and Madison	2,470,005
Dry Creek	Carbon	Judith River, Eagle, Frontier, Greybull and Lakota	1,084,288
Dunkirk, North	Toole	Bow Island	267,862
Eagle Springs	Toole	Bow Island	66,912
Ethridge	Toole	Bow Island, Swift	260,041
Flat Coulee	Liberty	Bow Island, Dakota, Swift, and Sawtooth	78,738
Fred and George	Toole	Sunburst, Swift	133,135
Fresno	Hill	Judith River, Eagle - Virgelle	58,180
Fritzpatrick Lake	Toole	Bow Island	277,144
Gold Butte	Toole	Bow Island	5,558
Grandview	Liberty	Bow Island, Madison	221,790
Gypsy Basin	Pondera	Sunburst	1,004,195
Hardin	Big Horn	Frontier	25,518
Haystack	Liberty	Bow Island	124,984
Highview	Pondera	Madison	41,027
Keith Block	Liberty	Blackleaf, Bow Island and Sawtooth	650,305
Kevin-Sunburst	Toole	Bow Island, Sunburst, Swift, Sun River and Nisku	650,871
Kevin, Southwest	Toole	Bow Island, Sunburst, and Swift	222,155
Kicking Horse	Toole	Bow Island, Sunburst and Sawtooth	170,280
Kinyon Coulee and Area	Toole	Bow Island	46,315
Lake Basin	Stillwater	Claggett, Eagle-Virgelle, Telegraph Creek and Frontier	593,560
Laredo	Hill	Eagle	12,029
Leroy	Blaine	Judith River, Eagle, and Virgelle	851,102
Liscom Creek	Custer	Shannon	166,490
Little Rock	Glacier	Bow Island	226,489
Lohman	Blaine	Eagle	198,095
Marias River	Toole	Bow Island	296,759
Middle Butte	Toole	Bow Island	161,959
Middle Dry Creek	Carbon	Frontier and Lakota	28,796
Miners Coulee	Toole	Bow Island, Sunburst-Swift	913,081
Mt. Lily	Liberty	Madison	16,234
O'Briens Coulee	Liberty	Bow Island	347,927
Phantom	Toole	Sunburst and Swift	878,599
Plevna	Fallon	Judith River	28,433
Police Coulee	Toole	Bow Island	14,454
Prairie Dell	Toole	Bow Island and Swift	656,781
Pumpkin Creek	Custer	Shannon	-
Rapelje	Stillwater	Judith River, Claggett, Eagle and Virgelle	140,748
Red Rock	Hill	Eagle	69,737
Rocky Boy Area	Hill	Eagle	86,610
Rudyard	Hill	Sawtooth	301,065
Sage Creek	Liberty	Blackleaf	354,370
Sawtooth Mountain and Area	Blaine	Judith River and Eagle	1,040,313
Sherard	Blaine - Chouteau	Judith River and Eagle	546,484
Snoose Coulee	Liberty	Bow Island	79,752
South Devon	Toole	Bow Island	80,682
Strawberry Creek Area	Toole	Bow Island	42,575
Swanson Creek	Phillips	Phillips	179,346
Three Mile	Blaine	Eagle	9,994
Tiger Ridge	Blaine and Hill	Judith River and Eagle	11,648,963
Trail Creek	Liberty and Toole	Bow Island and Sunburst	-
Two Forks	Blaine	Eagle	293
Utopia	Liberty	Sawtooth	248,194
West Butte	Toole	Bow Island, Sawtooth and Madison	-
Whitlash	Liberty	Bow Island, Kootenai, Swift	700,346
Williams	Pondera	Bow Island	525,248
Willow Ridge	Toole	Bow Island	213,574

TOTAL NATURAL GAS

48,928,608

ASSOCIATED MARKETED GAS — 1980

Field	County	Producing Formation	1980 Production MCF
Associated Gas			
Anvil	Roosevelt	Red River	144,048
Bainville, West	Roosevelt	Red River	111
Big Muddy Creek	Roosevelt	Interlake, Red River	37,727
Blue Hill	Richland	Red River	10,026
Brorson	Richland	Madison, Red River	66,738
Cabin Creek	Fallon	Mission Canyon, Interlake, Red River	367,479
Canal	Richland	Red River	19,861
Clark's Fork	Carbon	Frontier	4,952
Clark's Fork, North	Carbon	Lakota	630
Clark's Fork, South	Carbon	Greybull	35,698
Clear Lake	Sheridan	Mission Canyon, Red River	85,512
Colored Canyon	Sheridan	Red River	35,458
Crane	Richland	Red River	75
Dagmar	Sheridan	Red River	30,954
Diamond Point	Roosevelt	Red River	13,081
Dry Creek	Carbon	Virgelle	197,713
Dry Creek, West	Carbon	Greybull	65,522
Eagle	Richland	Mission Canyon	26,552
Elk Basin	Carbon	Tensleep	58,612
Fairview	Richland	Winnipegosis, Red River	314,653
Fishhook	Sheridan	Red River	26,568
Fort Gilbert	Richland	Red River, Madison	18,218
Four Mile Creek	Richland	Red River	16,260
Four Mile Creek, West	Richland	Red River	13,048
Gypsy Basin	Pondera	Sunburst, Madison	89,519
Hay Creek	Richland	Mission Canyon, Red River	24,115
Highview	Pondera	Madison	48,864
Katy Lake, North	Sheridan	Red River	181,297
Lone Butte	Richland	Red River	23,950
Lonetree Creek	Richland	Red River	108,482
Lookout Butte (Coral Creek)	Fallon	Interlake and Red River	58,815
Medicine Lake	Sheridan	Winnipegosis, Red River	274,947
Mon Dak West	Richland	Madison, Mission Canyon, Ordovician	643,425
Mustang	Richland	Red River	46,839
North Fork	Richland	Madison, Red River	4,365
Otis Creek	Richland	Red River	9,071
Pennel	Fallon	Madison, Silurian, Ordovician	249,090
Pine	Dawson, Prairie, Fallon, and Wibaux	Interlake, Red River	113,458
Putnam	Richland	Interlake, Mission Canyon, Red River	338,165
Refuge	Sheridan	Red River	20,311
Second Creek	Richland	Red River	34,507
Sidney	Richland	Mission Canyon	77,106
Single Tree	Roosevelt	Red River	25,784
Sioux Pass	Richland	Mission Canyon, Silurian, Ordovician	95,209
Sioux Pass, East	Richland	Red River	7,779
Sioux Pass, Middle	Richland	Red River	125,469
Sioux Pass, North	Richland	Red River	150,267
South Fork	Richland	Red River	88,234
Tule Creek	Roosevelt	Nisku	2,350
Two Medicine Creek	Glacier	Mission Canyon	171,013
Vaux	Richland	Mission Canyon, Red River	144,326
West Butte	Toole	Sunburst	18,541
Whitlash	Liberty	Swift	107,028
Wright Creek	Powder River	Muddy	1,658

TOTAL ASSOCIATED MARKETED GAS

4,873,480
48,928,608

TOTAL GAS PRODUCED - 1980

53,802,088

NATURAL GAS IMPORTED MMCF

Canada	22,350
Wyoming	17,061
Dakotas	6,349
	<u>45,760 MMCF</u>

NATURAL GAS EXPORTED MMCF

Canada	13
Wyoming	265
Dakotas	5,691
Midwest	14,586
	<u>20,555 MMCF</u>

BARRELS OF CRUDE OIL REFINED IN MONTANA — 1980

	CONTINENTAL OIL CO.	EXXON COMPANY	FARMERS UNION	KENCO REF. INC.	PHILLIPS PET. CO.	WESCO REF. CO.	TOTALS
Total Montana Oil	2,487,822	640,739	851,765	1,110,194	1,734,882	1,190,358	8,015,760
Canada Oil Imported	9,878,300	3,789,291	3,669,443	---	290,296	---	17,627,330
North Dakota Oil Imported	16,960	---	8,180	---	---	---	25,140
Wyoming Oil Imported	3,750,442	10,304,112	4,995,914	---	---	---	19,050,468
Total Montana, Canadian, North Dakota, & Wyoming Oil	16,133,524	14,734,142	9,525,302	1,110,194	2,025,178	1,190,358	44,718,698

PERCENTAGE OF CRUDE OIL REFINED

	Montana	Canada	North Dakota	Wyoming
Year: 1976	16.93%	46.69%	---	36.38%
Year: 1977	18.49%	43.32%	.41%	37.78%
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%

AVERAGE BARRELS PER DAY

	Montana	Canada	North Dakota	Wyoming	Total
Year: 1976	23,272	64,192	---	50,029	137,493
Year: 1977	24,461	57,317	549	49,994	132,321
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

REFINING FIVE YEAR COMPARISON

	1976	1977	1978	1979	1980
	50,322,433	48,297,000	47,738,947	50,619,676	44,718,698

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
STATEMENT OF CRUDE OIL PRODUCTION AND VALUATION—ALL MONTANA FIELDS
YEAR 1980 AND ACCUMULATED TOTALS FROM DISCOVERY DATE

FIELD	COUNTY	PRODUCTION YEAR 1980			CUMULATIVE TO DECEMBER 31, 1980	
		BARRELS	VALUE	AVERAGE PRICE	BARRELS	VALUE
Andes	Richland	5,142	196,738	38.261	11,007	300,331
Anvil	Roosevelt	200,871	4,804,031	23.916	386,629	7,293,010
Anvil, North	Sheridan	810	29,160	36.000	810	29,160
Ash Creek	Big Horn	7,907	155,744	19.697	783,291	2,220,857
Bainville, North	Roosevelt	126,432	4,734,752	37.449	173,070	6,360,319
Bainville, West	Roosevelt	41,506	1,501,978	36.187	61,858	1,763,491
Bannatyne	Teton	8,849	306,025	34.583	252,953	1,161,042
Bear's Den	Liberty	9,539	343,518	36.012	456,348	2,091,227
Bell Creek	Powder River	4,613,976	91,859,648	19.909	112,859,463	708,420,403
Benrud	Roosevelt	1,375	51,337	37.336	216,669	672,262
Benrud, East	Roosevelt	73,014	665,815	9.119	2,399,730	9,443,667
Benrud, Northeast	Roosevelt	10,877	134,951	12.407	908,027	2,776,223
Berthelote	Toole	895	25,665	28.676	53,617	217,654
Big Gully	Musselshell	4,593	98,869	21.526	82,575	1,026,199
Big Gully, North	Musselshell	2,915	71,318	24.466	12,755	195,486
Big Muddy Creek	Roosevelt	57,812	1,260,995	21.812	904,189	11,784,281
Big Wall	Musselshell	104,447	2,952,090	28.264	7,008,909	22,056,157
Big Wall, North	Musselshell	575	20,995	36.513	6,948	106,852
Blackfoot	Glacier	22,774	833,665	36.606	1,141,092	4,520,491
Blue Hill	Richland	11,966	277,767	23.213	112,095	1,650,210
Border	Toole	10,479	355,898	33.963	1,328,983	3,094,675
Boulder	Richland	6,585	149,545	22.710	122,537	1,535,212
Bowes	Blaine	116,126	3,619,880	31.172	8,600,246	22,995,310
Box Canyon	Richland	43,223	1,636,422	37.860	43,223	1,636,422
Bradley	Glacier	6,670	154,871	23.219	221,056	873,416
Brady	Pondera	5,112	178,342	34.887	65,137	422,784
Breed Creek	Rosebud	110,532	2,317,524	20.967	458,698	6,507,233
Brorson-Madison	Richland	32,240	730,784	22.667	493,350	2,973,267
Brorson-Red River	Richland	29,367	587,604	20.009	1,899,866	7,341,529
Brorson-Red River, South	Richland	71,509	1,427,677	19.965	1,217,756	7,195,082
Brush Lake	Sheridan	71,412	1,051,899	14.730	1,889,908	8,331,590
Burget, East	Roosevelt	1,200	43,680	36.400	1,200	43,680
Burns Creek	Dawson, Richland	9,360	209,617	22.395	183,239	1,255,697
Cabin Creek	Fallon	1,566,121	20,358,007	12.999	77,786,569	247,190,935
Canal	Richland	9,734	62,979	6.470	499,858	2,059,695
Carlyle	Wibaux	31,756	662,843	20.873	114,130	1,748,196
Cat Creek	Petroleum, Garfield	96,722	3,638,488	37.618	22,946,658	54,895,998
Charlie Creek	Richland	34,775	656,830	18.888	424,705	5,598,784
Charlie Creek, East	Richland	44,120	1,704,929	38.643	44,120	1,704,929
Clark's Fork	Carbon	467	16,133	34.547	83,368	258,535
Clark's Fork, North	Carbon	1,505	56,639	37.634	1,023,765	2,866,533
Clark's Fork, South	Carbon	2,236	85,478	38.228	80,230	622,498
Clear Lake	Sheridan	262,406	6,650,155	25.343	709,253	13,167,449
Coal Ridge	Sheridan	7,894	312,934	39.642	16,076	626,550
Colored Canyon	Sheridan	96,856	2,398,251	24.761	213,115	3,972,461
Comertown	Sheridan	87,411	3,296,356	37.711	87,411	3,296,356
Conrad, South	Pondera	2,716	98,110	36.123	134,954	622,215
Cow Creek	McCone	3,650	139,456	38.207	110,120	804,686
Cow Creek, East	McCone	127,344	2,580,244	20.262	1,900,641	15,258,851
Crane	Richland	13,733	531,632	38.712	31,503	903,665
Culbertson	Roosevelt	2,833	110,643	39.055	167,963	893,154
Cupton	Fallon	116,477	2,467,332	21.183	1,457,672	9,916,572
Cut Bank	Glacier, Toole	1,404,457	46,215,062	32.906	152,475,361	486,340,364
Dagmar	Sheridan	45,713	970,853	21.238	214,700	3,098,203
Dean Dome	Stillwater	3,146	84,178	26.757	26,719	334,986
Deer Creek	Dawson	5,665	118,030	20.835	2,275,593	5,752,638
Delphia	Musselshell	2,123	80,264	37.807	303,094	980,082
Devil's Basin	Musselshell	3,583	128,146	35.765	63,462	312,127
Diamond Point	Roosevelt	12,023	206,315	17.160	172,606	2,277,868
Divide	Sheridan	69,921	2,665,249	38.118	87,809	3,211,978
Dry Creek	Carbon	10,454	236,731	22.645	4,076,740	8,163,563
Dry Creek, West	Carbon	1,639	67,802	41.368	4,888	142,956
Dwyer	Sheridan	142,793	2,004,814	14.040	6,117,882	19,314,484
Eagle	Richland	85,585	2,670,252	31.200	177,907	4,015,080
Elk Basin	Carbon	917,797	12,316,836	13.420	76,531,786	220,380,162
Elk Basin, Northwest	Carbon	12,219	432,064	35.360	1,188,945	4,473,624
Enid, North	Richland	12,479	279,455	22.394	32,899	596,661
Fairview	Richland	227,074	3,768,066	16.594	6,074,712	25,634,351

PRODUCTION YEAR 1980

CUMULATIVE TO
DECEMBER 31, 1980

FIELD	COUNTY	AVERAGE			CUMULATIVE TO	
		BARRELS	VALUE	PRICE	BARRELS	VALUE
Fairview, West	Richland	1,042	41,159	39.500	1,042	41,159
Fertile Prairie	Fallon	6,871	140,120	20.393	447,317	1,341,357
Fiddler Creek	Stillwater	153	4,131	27.000	153	4,131
Fishhook	Sheridan	44,830	1,746,935	38.968	44,830	1,746,935
Flat Coulee	Liberty	164,336	3,482,609	21.192	3,399,684	18,328,528
Flat Coulee, East	Liberty	359	12,206	34.000	659	22,397
Flat Lake	Sheridan	520,339	7,650,024	14.702	11,904,042	50,190,130
Flat Lake, South	Sheridan	37,755	820,454	21.731	810,883	4,020,240
Fort Gilbert	Richland	47,658	762,385	15.997	1,140,356	5,270,292
Four Mile Creek	Richland	20,881	399,579	19.136	215,736	2,807,795
Four Mile Creek, West	Richland	24,146	573,926	23.769	101,406	1,536,411
Fox Creek	Richland	22,904	492,436	21.500	94,010	1,420,354
Fox Creek, North	Richland	12,628	342,990	27.161	24,928	498,965
Frannie	Carbon	3,654	60,675	16.605	721,869	1,855,854
Fred & George Creek	Toole	338,641	5,605,186	16.552	11,759,251	49,434,876
Frog Coulee	Richland	30,583	1,195,000	39.074	78,292	2,449,747
Froid, South	Roosevelt	4,968	192,127	38.673	169,682	954,683
Gage	Musselshell	1,988	72,876	36.658	564,321	1,129,575
Gas City	Dawson	151,516	3,501,232	23.108	9,033,427	30,116,597
Girard	Richland	163	4,890	30.000	209,918	775,514
Glacier, East	Glacier	152	5,472	36.000	152	5,472
Glendive	Dawson	182,211	2,722,050	14.939	11,286,816	33,101,782
Golden Dome	Carbon	252	9,940	39.443	40,737	150,841
Goose Lake	Sheridan	222,457	4,531,517	20.370	7,259,187	28,298,283
Goose Lake, East	Sheridan	1,210	44,563	36.829	1,210	44,563
Graben Coulee	Glacier	51,437	1,687,339	32.804	1,362,153	8,759,850
Grandview, East	Liberty	4,446	161,545	36.335	13,187	315,782
Gumbo Ridge	Rosebud	34,667	738,268	21.296	349,775	4,504,010
Gunsight	Roosevelt	774	29,304	37.860	774	29,304
Gypsy Basin	Pondera	22,191	754,472	33.999	266,036	2,240,843
Hay Creek	Richland	27,916	407,267	14.589	1,016,831	4,362,514
Hiawatha	Musselshell	30,627	361,460	11.802	1,348,894	4,898,359
Hibbard	Rosebud	3,152	118,780	37.684	175,024	713,004
High Five	Rosebud	196,401	5,358,998	27.286	1,078,213	17,621,874
Highview	Pondera	4,090	127,244	31.111	8,443	207,339
Honker	Sheridan	7,864	286,092	36.380	7,864	286,092
Horse Creek	Liberty	368	13,778	37.439	5,574	81,945
Howard Coulee	Musselshell	4,002	76,130	19.023	99,304	1,151,202
Ivanhoe	Musselshell	13,779	499,475	36.249	4,422,375	12,150,067
Jackass Butte	Toole	275	9,690	35.237	5,247	50,553
Jim Coulee	Musselshell	143,639	922,306	6.421	3,460,263	24,324,206
Katy Lake, North	Sheridan	320,461	12,294,166	38.364	471,284	17,108,135
Keg Coulee	Musselshell	64,366	1,644,294	25.546	4,872,296	18,754,898
Keg Coulee, North	Musselshell	19,080	465,037	24.373	357,123	2,499,834
Kelley	Musselshell	13,359	234,637	17.564	880,092	3,163,168
Kevin Sunburst	Toole	387,913	13,903,578	35.842	73,284,037	158,981,748
Kicking Horse	Toole	455	15,755	34.627	619	21,783
Krug Creek	Dawson	684	25,565	37.376	684	25,565
Laird Creek	Liberty	8,696	316,465	36.392	511,308	2,985,317
Lambert	Richland	9,952	371,438	37.323	9,952	371,438
Landslide Butte	Glacier	398	13,505	33.933	40,422	228,840
Laurel	Yellowstone	391	14,114	36.097	825	29,738
Leary	Powder River	37,320	772,375	20.696	383,335	2,859,887
Little Beaver	Fallon	411,678	5,143,093	12.493	9,249,455	34,369,414
Little Beaver, East	Fallon	117,891	1,928,343	16.357	4,559,187	15,488,956
Little Phantom	Toole	6,609	135,980	20.575	23,115	340,136
Little Wall Creek	Musselshell	213,932	5,259,090	24.583	1,940,980	24,008,740
Lodge Grass	Big Horn	6,245	123,482	19.773	252,717	708,534
Lone Butte	Richland	29,850	675,804	22.640	300,218	3,735,995
Lonetree Creek	Richland	160,466	3,106,622	19.360	2,446,537	16,666,314
Long Creek	Roosevelt	5,026	108,803	21.648	34,033	483,215
Long Creek, West	Roosevelt	46,271	1,010,374	21.836	215,289	3,218,079
Lookout Butte (Coral Creek)	Fallon	587,746	7,971,599	13.563	19,437,850	68,117,926
Lowell	Sheridan	19,041	718,322	37.725	19,041	718,322
MacKay Dome	Stillwater	4,993	131,141	26.265	10,721	141,603
Mason Lake	Musselshell	139,967	5,132,870	36.672	504,325	10,316,830
Mason Lake, North	Musselshell	1,803	67,804	37.606	10,047	201,078
McCabe	Roosevelt	15,712	338,185	21.524	52,227	822,137
Medicine Lake	Sheridan	556,385	20,945,670	37.646	789,066	26,674,742
Melstone	Musselshell	152,349	3,489,859	22.907	2,248,862	12,342,524
Mineral Bench	Roosevelt	3,915	151,303	38.647	158,217	741,184
Miner's Coulee	Toole	5,179	184,082	35.544	135,311	726,454
Mon-Dak West	Richland	1,230,091	33,638,068	27.346	3,353,530	63,626,953
Monarch	Fallon	122,307	2,645,867	21.633	4,335,761	16,750,415

FIELD	COUNTY	PRODUCTION YEAR 1980			CUMULATIVE TO DECEMBER 31, 1980	
		BARRELS	VALUE	AVERAGE PRICE	BARRELS	VALUE
Mosser	Yellowstone	5,893	221,329	37.558	292,032	1,106,153
Mustang	Richland	55,144	2,168,372	39.322	109,935	3,751,059
Nohiy	Richland	60,699	1,129,912	18.615	955,689	7,989,358
North Fork	Richland	24,851	511,483	20.582	181,590	2,502,242
Ollie	Fallon	11,894	445,740	37.476	11,894	445,740
Otis Creek	Richland	8,597	200,052	23.270	588,559	4,526,361
Otter Creek	Sheridan	3,059	116,306	38.021	3,059	116,306
Outlook	Sheridan	167,613	3,240,965	19.336	7,433,238	30,202,304
Outlook, South	Sheridan	6,618	144,021	21.762	658,225	1,918,626
Outlook, West	Sheridan	10,698	349,536	32.673	558,706	2,115,405
Oxbow	Roosevelt	35,202	757,406	21.516	121,445	1,898,670
Palomino	Roosevelt	37,748	1,332,147	35.291	37,748	1,332,147
Pelican	Sheridan	30,808	1,184,658	38.428	45,738	1,560,241
Pennel	Fallon	2,973,607	50,176,645	16.874	46,716,166	259,400,694
Pete Creek	Toole	2,112	57,480	27.216	8,085	130,829
Phantom	Toole	6,934	137,189	19.785	35,295	504,035
Pine	Dawson, Fallon, Prairie, Wibaux	1,901,902	23,452,354	12.331	91,864,884	294,276,195
Pondera	Fallon, Teton	299,916	10,727,695	35.769	21,736,196	74,737,432
Pondera Coulee	Teton	3,764	120,727	32.074	30,453	246,924
Poplar, East	Roosevelt	254,855	9,098,833	35.702	43,386,787	130,153,449
Poplar, Northeast	Roosevelt	98,752	2,477,194	25.085	1,339,062	13,595,647
Poplar, Southeast	Roosevelt	4,769	103,812	21.768	150,958	711,842
Prairie Elk	McCone	4,535	174,207	38.414	55,212	580,843
Prichard Creek	Toole	5,729	199,386	34.803	106,234	959,763
Pufnam	Richland	574,578	18,782,955	32.690	1,850,943	32,667,676
Rabbit Hills	Blaine	57,218	1,778,676	31.086	460,683	5,205,963
Ragged Point	Musselshell	52,696	1,915,710	36.354	3,150,125	16,291,308
Rattler Butte	Rosebud	16,632	345,663	20.783	116,778	1,580,650
Rattlesnake Coulee	Toole	2,262	81,418	35.994	84,976	524,028
Raymond	Sheridan	435,007	13,641,385	31.359	2,619,992	31,164,311
Raymond, Northeast	Sheridan	8,622	178,984	20.759	112,689	1,476,813
Reagan	Glacier	250,168	8,778,145	35.089	6,834,011	38,837,372
Red Creek	Glacier	71,552	1,780,786	24.888	5,321,145	15,879,828
Red Fox	Roosevelt	3,115	120,158	38.574	364,628	1,262,577
Redbank	Roosevelt	60,484	2,287,323	37.817	60,484	2,287,323
Redstone	Sheridan	8,163	170,182	20.848	443,410	1,511,969
Refuge	Sheridan	24,921	994,273	39.897	42,774	1,638,695
Repeat	Carter	9,991	206,784	20.697	475,070	1,821,969
Reserve	Sheridan	45,916	1,264,802	27.546	1,313,700	6,042,216
Richey	Dawson, McCone	7,910	205,802	26.018	1,923,087	5,059,700
Richey, Southwest	McCone	7,639	288,174	37.724	1,872,168	5,521,773
Richey Area, West	McCone	7,062	255,002	36.109	7,062	255,002
Ridgelawn	Richland	137,630	4,827,372	35.075	216,166	6,237,671
RipRap Coulee	Roosevelt	25,074	654,908	26.119	142,949	1,945,708
Rocky Point	Roosevelt	28,383	612,051	21.564	60,833	1,042,215
Roscoe Dome	Carbon	635	19,225	30.275	2,319	67,928
Rosebud	Rosebud	17,734	464,808	26.210	351,430	4,459,245
Royals	Dawson	10,244	374,239	36.604	10,224	374,239
Rudyard	Hill	1,838	30,037	16.342	4,755	52,076
Runaway	Teton	591	21,089	35.684	911	32,822
Rush Mountain	Sheridan	16,607	182,644	10.998	374,011	1,562,558
Salt Lake	Sheridan	18,672	388,042	20.782	303,270	1,695,419
Sand Creek	Dawson	10,783	353,273	32.762	2,219,071	8,395,169
Scobey	Daniels	2,759	105,179	38.122	2,759	105,179
Second Creek	Richland	66,061	1,661,831	25.156	822,615	9,931,015
Shepherd	Musselshell	2,771	90,789	32.764	59,480	839,559
Shotgun Creek, North	Roosevelt	8,824	186,319	21.115	72,396	987,482
Sidney	Richland	318,447	10,301,760	32.350	1,510,392	19,288,216
Singletree	Roosevelt	18,919	424,561	22.441	54,996	904,853
Sioux Pass	Richland	153,789	3,338,452	21.708	2,090,633	24,660,753
Sioux Pass, East	Richland	6,666	143,866	21.582	41,690	576,144
Sioux Pass, Middle	Richland	149,131	4,790,684	32.124	615,869	11,620,843
Sioux Pass, North	Richland	255,725	7,598,357	29.713	1,271,626	21,302,468
Snyder	Big Horn	4,297	147,327	34.286	427,493	1,120,998
Soap Creek	Big Horn	59,975	1,932,095	32.215	2,123,720	8,449,750
Soap Creek, East	Big Horn	11,247	338,951	30.137	47,515	810,559
South Fork	Richland	105,067	2,181,821	20.766	501,923	7,433,207
Spring Lake	Richland	21,677	504,791	23.287	702,025	2,516,367
Stampede	Richland	5,952	221,039	37.137	5,952	221,039
Stensvad	Musselshell, Rosebud	6,662	214,783	32.240	10,020,655	25,711,920
Strawberry Creek	Toole	89	2,997	33.669	89	2,997
Sumatra	Rosebud	1,042,058	17,339,845	16.640	38,117,117	183,361,429
Sunnyhill	Sheridan	25,349	689,214	27.189	75,401	1,411,984
Three Buttes	Richland	13,988	536,664	38.366	29,444	977,812

FIELD	COUNTY	PRODUCTION YEAR 1980			CUMULATIVE TO DECEMBER 31, 1980	
		BARRELS	VALUE	AVERAGE PRICE	BARRELS	VALUE
Tippy Buttes	Musselshell	7,025	263,002	37.438	11,845	322,201
Tule Creek	Roosevelt	114,646	1,603,783	13.989	7,377,944	23,975,981
Tule Creek, East	Roosevelt	8,245	176,468	21.403	1,959,318	5,773,406
Tule Creek, South	Roosevelt	10,403	310,550	29.852	670,423	2,573,611
Two Medicine Creek	Glacier	8,124	297,680	36.642	8,124	297,680
Two Waters	Richland	27,735	1,061,807	38.284	27,735	1,061,807
Utopia Swift	Liberty	42,540	955,363	22.458	169,247	2,515,817
Vaux	Richland	248,449	5,998,801	24.145	801,907	13,461,441
Vida	McCone	1,612	63,627	39.471	254,565	891,500
Volt	Roosevelt	80,675	1,467,236	18.187	2,346,349	10,041,712
Wagon Box	Musselshell	944	32,093	33.997	21,024	250,643
Weed Creek	Yellowstone	4,724	98,306	20.810	581,395	1,992,615
Weldon	McCone	12,168	353,663	29.065	6,988,276	18,492,348
West Butte	Toole	17,437	450,049	25.810	225,000	1,200,121
Whitlash	Liberty	158,399	5,626,808	35.523	4,385,387	25,094,663
Whitlash, West	Toole	9,345	340,850	36.474	67,165	520,286
Willow Creek, North	Musselshell	9,146	344,722	37.691	271,294	1,734,193
Willow Ridge	Toole	3,751	136,656	36.432	19,206	392,407
Wills Creek, South	Fallon	36,548	638,822	17.479	863,639	3,626,366
Winnett Junction	Musselshell	77,678	1,695,245	21.824	500,796	6,412,796
Wolf Springs	Yellowstone	15,420	337,343	21.877	4,566,948	11,947,952
Woodrow	Dawson	15,194	214,433	14.113	1,030,651	3,162,445
Wrangler	Sheridan	59,880	2,294,602	38.320	80,814	3,039,455
Wrangler, North	Sheridan	23,351	919,726	39.387	27,701	1,082,847
Wright Creek	Powder River	9,363	314,494	33.589	213,587	1,576,699
Wildcat	Richland	81	2,907	32.000	339,856	818,099
Wildcat	Sheridan	269	5,649	21.000	39,133	104,151
Misc. Abandoned Fields		---	---	---	2,432,820	5,805,886
TOTALS		29,583,804	658,091,649	22.245	1,047,875,572	4,324,265,925

MISCELLANEOUS ABANDONED FIELDS AS OF DECEMBER 31, 1980

FIELD	BARRELS	DOLLARS	FIELD	BARRELS	DOLLARS
Bainville	264,518	989,773	Rattlesnake Butte	5,920	6,592
Bascom	27,830	65,674	Rough Creek	3,599	10,583
Belfry	91,804	233,602	Shotgun Creek	76,124	172,616
Blackfoot, East	810	1,730	Smoke Creek	100,305	221,361
Bloomfield	7,163	18,589	Viking	160	1,957
Bredette	185,176	412,504	Wibaux	23,580	42,945
Bredette, North	488,554	1,160,009	Wolf Creek	1,979	2,275
Bynum	5,971	15,320	Woman's Pocket	3,526	7,461
Cadmus	1,173	3,381	Yellowstone	39,405	72,518
Chelsea Creek	11,548	43,764	Wildcat Blaine County	9,324	19,667
Four Buttes	41,067	122,184	Wildcat, Carbon County	6,368	13,559
Gage, Southwest	16,289	37,397	Wildcat, Daniels County	3,508	7,787
Gettysburg	304	11,987	Wildcat, Fallon County	10,683	29,485
Grandview	3,243	6,983	Wildcat, Glacier County	48,231	124,918
Hardscrabble Creek	1,242	3,627	Wildcat, Hill County	161	1,804
Hawk Creek	6,577	12,939	Wildcat, Liberty County	3,254	19,148
Injun Creek	23,038	59,061	Wildcat, McCone County	12,575	41,467
Jack Creek	1,310	3,275	Wildcat, Musselshell County	925	1,841
Katy Lake	1,056	2,872	Wildcat, Powder River County	27,445	65,594
Lake Basin	473,639	661,111	Wildcat, Roosevelt County	86,154	236,920
Line Coulee	57,789	138,495	Wildcat, Stillwater County	11,283	13,365
Musselshell	14,938	32,179	Wildcat, Toole County	35,809	118,817
Pine, East	19,349	233,378	Wildcat, Wibaux County	8,388	25,416
Pole Creek	169,726	277,956	TOTALS	2,432,820	5,805,886

1980 - 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	PRODUCING FORMATION	DATE COMPLETED
CARBON	Eastern American Energy Corporation, J.G. Ranch 6, Lot 2 NW NE 5-6S-18E	Roscoe Dome**	2,964	10	Graybull	8-27-80
CHOUTEAU	Non-Am Exploration Corporation, Thornberry 1, SW NE NE 29-26N-3E	Buffalo Fiat	1,305	3,199	Bow Island	10-21-80
		Camp Creek	1,615	8	Claggett	6-13-80
DAWSON	Al Aquitaine Exploration, Ltd., BN 1-33, SE SE 33-16N-57E	Krug Creek	10,900	40	Red River	12-7-80
	Amoco Production Company, BN 1, SW SE 17-27N-52E	Royals	11,695	285	Dawson Bay	5-16-80
FALLON	Anadarko Production Company, State "A" 1, SE SW 16-9N-61E	Cannonball	10,400	93	Red River	8-21-80
	General American Oil Co. of Texas, Lutts 1, SE NE 9-10N-60E	Ollie	10,480	110	Red River	8-10-80
GLACIER	Rainbow Resources, Inc., Blackfeet 1-19, SW NE NW 19-31N-11W	Two Medicine Creek	9,244	90	3,840 Sun River	1-28-80
	Rainbow Resources, Inc., Two Medicine 1-11, NE SW NW 11-31N-12W	East Glacier	9,500	145	Greenhorn	11-23-80
	Mountain States Resources, Inc., State 4, SE NW NE 15-37N-5W	Graben Coulee**	2,693	13.5	Sunburst-Cut Bank	6-80
	Blackleaf Petroleum Company, Tribal 11-3, NE NE SW 3-37N-6W	Blackfoot**	9,626	131	Greenhorn	8-21-80
HILL	J. Burns Brown, Graham 6-32-15, NW SE NE 6-32N-15E	Badlands*	1,250		250 Eagle	6-4-80
	Texaco, Inc., Pester 1, E/2 SW NW 14-33N-9E	Rudyard*	3,496	10,000	Sawtooth	10-3-80
	Kissinger Petroleum Corporation, Givan 3-34, NE NW 34-33N-12E	Xena	3,875	149	Judith River	6-13-80
LIBERTY	LYTM Company, Inc., Kolstad 1, NW SE NW 28-29N-4E	South Tiber	454	1,023	Colorado	2-23-80
	LYTM Company, Inc., Kolstad 3, NW SE NW 32-29N-4E	South Tiber*	883	15	Colorado	6-14-80
	Yellowstone Petroleum, Inc., Blair 10-14, SW NW SE 14-34N-4E	Horse Creek*	2,772	8.5	Swift	7-30-80
McCONE	Amoco Production Company, BN C-1, NW SE 21-23N-49E	West Richey	7,500	600	Charles	10-11-80
	Black Hawk Resources Corp., Berry L N D.E.L.S. 31-26, C NW NE 26-23N-49E	Richey**	7,300	205	Mission Canyon	11-7-80
PHILLIPS	Lawrence J. McCarthy, Haugness 1-29, SW SE 29-36N-30E	Bowdoin*	1,922		Shut-in Phillips-Bowdoin	8-31-80
PONDERA	Marquis Petroleum Corporation, Schock 21-12A, E/2 NW SW 21-28N-1E	Brokenbow	550	69.2	Blackleaf	9-24-80
	Century Oil & Gas Corp., Toren 4-1, SE SW NW 4-28N-5W	So. Lake Francis**	2,003	424	Blackleaf	9-20-80
	Milan R. Ayers, Boucher 1, SW NE SE 20-29N-5W	So. Lake Francis*	2,350	301	Bow Island	9-23-80
	Century Oil & Gas Corp., State 36-1, SE NW NW 36-29N-5W	So. Lake Francis	1,972	384	Bow Island	9-19-80
	Balcon Oil Company, Sprague 1-32, NW SW NE 32-30N-2W	N. Ledger	1,085		Shut-in Bow Island	4-8-80
RICHLAND	Superior Oil Company, Mercer 1, SW NE 12-21N-59E	Gossett	9,650	35	Mission Canyon	7-16-79
	Bass Enterprises Production Co., Lorenz 21-2, NW SE 21-22N-59E	Eagle**	10,777	15	Ratcliffe	10-17-80
	Bass Enterprises Production Co., Peterson 28-1, NW 28-22N-59E	Eagle**	10,782	147	Duperow	5-2-80
	Amoco Production Company, BN "E" 1, NE SE 31-23N-52E	Lisk Creek	10,777	29	89 Red River	9-9-80
	B.W.A.B. Inc., Nevins 8-11x, NW NW 8-23N-55E	Red Water	10,894	396	Duperow	12-20-80
	Louisiana Land & Exploration Co., State 1, C SE SE 16-23N-55E	Box Canyon	13,063	103	Red River	2-4-80
	Southland Royalty Company, Prevost 1-19, NW NW 19-23N-56E	Lambert	12,250	120	Red River	7-19-80
	Tenneco Oil Company, Obergfell 1-32, NE NE 32-23N-57E	Putnam*	12,550	692	Red River	3-26-80
	Mosbacher Production Co., Hartland 1, SE SE 20-24N-54E	Two Waters	11,652	239	Red River	3-13-80
	Gulf Oil Corporation, Deming 1-12-4c, C SE SW 12-24N-59E	W. Fairview	13,030	74	Red River	12-31-80
	Farmers Union Central Exchange, Gunderson 16-33, SE SE 33-25N-54E	Spring Lake*	11,660	141	Duperow	9-5-80
	Louisiana Land & Exploration Co., State 1, SW SW 16-25N-55E	E. Charlie Creek	12,012	370	Red River	2-10-80
	Tom Brown, Inc., Finnicum 31-44, SE SE 31-26N-55E	Stampede	11,786	136	Red River	9-5-80
	Kenneth Luff, Inc., Bawden 1-2, S/2 2-26N-58E	Sioux Pass*	12,801	30	Red River	10-30-80
ROOSEVELT	Brownlee, Wallace, Armstrong, & Bander, Heen 12-11, NW NW 12-26N-59E	Snowden	9,550	23	Mission Canyon	4-20-80
	Tom Brown, Inc., Berry 34-23x, NE SW 34-27N-59E	Rip Rap Coulee*	9,692	128	Ratcliffe	6-4-80
	Superior Oil Company, Ft. Peck-Bird 1, SW NE 7-29N-49E	Palomino	7,640	756	Nisku	8-11-80
	Sun Oil Company (Delaware), Torgerson 1, SE NE 9-29N-58E	Gunsight	12,940	10	Ratcliffe	7-3-80
	Sun Oil Company (Delaware), Barr 1, NE NE 20-29N-58E	East Burget*	12,820	53	Red River	11-14-80
	Southland Royalty Company, Rudolph 1-31, NW NW 31-29N-58E	North Bainville*	12,675	240	Red River	5-21-80
	Dome Petroleum Corp., Detienne 1-18, SE SE 18-29N-59E	Red Bank**	9,600	241	Ratcliffe	11-21-80
	Sun Oil Company (Delaware), Panasuk 1, SE SW 20-29N-59E	Red Bank	13,125	360	Red River	4-26-80
	Mertland Oil & Gas, Inc., Picard 1-19, SW NW 19-30N-59E	Anvil*	12,628	573	Red River	11-17-80
ROSEBUD	E. Doyle Huckabay, Ltd., Kincheloe 3-32, NW SW 32-12N-32E	W. Kincheloe Ranch	5,434	200	Tyler	12-14-80
SHERIDAN	Wm. H. Hunt Trust Estate, Ostby 1, SW NW 26-31N-58E	N. Anvil	9,250	25	Ratcliffe	7-18-80
	Donald C. Slawson, Charlesworth 13-1, E/C SE SE 13-32N-55E	Honker	11,250	190	Red River	8-17-80
	Farmers Union Central Exchange, Land 9-20, NE SE 20-32N-56E	Medicine Lake*	11,275	549	Red River	6-26-80
	Sun Oil Company (Delaware), Eidsness 1, NE NE 29-33N-55E	Otter Creek	11,040	39	Red River	9-24-80
	Patrick Petroleum Company, Williams 1-34, SE SW 34-33N-56E	Colored Canyon*	11,438	939	Red River	11-13-80
	Petroleum, Inc., Glenn 1, C SE 3-35N-58E	E. Goose Lake	10,963	153	Red River	12-14-80
	Diamond Shamrock Corporation, Goetz 34-10, SW SE 10-36N-57E	Comertown	10,800	305	Red River	2-23-80

COUNTY	OPERATOR-WELL NAME AND LOCATION	FIELD	TOTAL DEPTH	INITIAL POTENTIAL		PRODUCING FORMATION	DATE COMPLETED
				Oil B/D,	Gas MCF		
TETON	Rainbow Resources, Inc., Federal 1-8, NW SE SE 8-26N-8W	Blackleaf Canyon	6,259		5,100	Sun River	12-8-80
	Mountain States Resources, Inc., Bills Ranch 2-A, NW NW NE 1-27N-7W	Gypsy Basin**	3,330	16	211	Sawtooth	9-80
TOOLE	Adobe Oil & Gas Corporation, Tait 1-3 SW NE SE 3-30N-3E	East Tiber	896		Shut-in	Bow Island	5-8-80
	General Well Service, Inc., Benjamin 1-31, SW NE NE 31-31N-2E	Tiber	870		472	Bow Island	8-13-80
	Adobe Oil & Gas Corporation, Flage 1-8, SW NE NW 8-31N-3E	Galata*	2,101		753	Bow Island	11-21-80
	Adobe Oil & Gas Corporation, Grant 1-19, NE SW SE 19-31N-3E	Galata	1,454		326	Bow Island	11-16-80
	Adobe Oil & Gas Corporation, Snuffer 1-8, NW SE NE 8-32N-3E	Kinyon Coulee*	2,194		121	Bow Island	11-27-80
	General Well Service, Inc., Fossum 10-8, NE NW SE 8-35N-1E	Timber Creek*	2,152		349	Bow Island	4-23-80
	Yellowstone Petroleum, Inc., Henry 10-26, C NW SE 26-35N-3E	W. Grandview	2,860		1,500	Bow Island	7-14-80
	Fullen Producing Company, Schmid-Sutto 33-2R, C NW SE 2-37N-3E	West Whillash*	2,906	55		Swift	1-22-80
	Burton Hawks, Inc., Federal Aloe 4-1, SE NW NE 4-33N-3W	S.W. Kevin*	1,500		65	Sunburst	4-30-80
Frontier Exploration, Federal 2, NE NW 22-35N-3W	Kevin-Sunburst**	1,739	250		Sawtooth	9-5-80	

1980 — SUMMARY OF SECONDARY RECOVERY PROJECTS — JANUARY 1, 1981

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	Source of Injection
									Media and Remarks
Ash Creek	Shannon	Transocean, Inc.	Waterflood	Peripheral	10-15-64	1,269	113	4	Parkman
Bell Creek Unit "A"	Muddy	Gary	Waterflood	Peripheral	7-1-70	131,529	37,310	28	Madison
Bell Creek Unit "B"	Muddy	Gary	Waterflood	Peripheral	10-1-77	35,047	10,455	12	Madison
Bell Creek Unit "C"	Muddy	Gary	Waterflood	Peripheral	9-1-71	21,260	5,962	5	Madison
Bell Creek Unit "D"	Muddy	Gary	Waterflood	Peripheral	1-1-72	25,330	7,071	10	Madison
Bell Creek Unit "E"	Muddy	Gary	Waterflood	Peripheral	1-1-72	19,413	5,461	13	Madison
Bell Creek Ranch Unit	Muddy	Gary	Waterflood	Peripheral	3-1-71	36,361	4,933	6	Madison
Big Wall	Tyler B	Texaco, Inc.	Waterflood	Random	8-20-66	24,900	4,806	2	Produced, Amsden & Tyler
Blackfoot	Cut Bank	Croft Petroleum Co	Waterflood	Random	7-1-76	739	520	3	Madison
Old Border Unit	Cut Bank	BG&O Co.	Waterflood	Random	6-1-73	813	N.A.	SI	Madison
Bowes	Sawtooth	Texaco, Inc.	Waterflood	Random	5-26-61	8,873	1,265	5	Madison
Cabin Creek	Siluro-Ord.	Shell	Waterflood	Semi-Peripheral	6-12-59	119,763	25,618	26	Produced & Fox Hills. (Cum. to 9/1/80)
Cat Creek, East Dome Unit	Swift	Hoss	Waterflood	Semi-Peripheral	7-30-70	740	202	3	Third Cat Creek Sand.
Cat Creek, Unit #1	1st Cat Creek	Farmers' Union	Waterflood	Semi-Peripheral	10-10-62	6,450	394	2	Third Cat Creek Sand.
Cat Creek, Unit #1	2nd Cat Creek	Farmers' Union	Waterflood	Semi-Peripheral	10-10-62	7,078	1,398	4	Third Cat Creek Sand.
Cat Creek, Unit #2	1st Cat Creek	Farmers' Union	Waterflood	Semi-Peripheral	12-1-59	9,440	62	1	Third Cat Creek Sand.
Cat Creek, Unit #2	2nd Cat Creek	Farmers' Union	Waterflood	Semi-Peripheral	12-1-59	9,873	1,067	3	Third Cat Creek Sand.
Cat Creek, Mosby Dome	Swift	Farmers' Union	Waterflood	Random	7-6-7	4,961	582	3	Third Cat Creek Sand.
Cat Creek, Mosby Dome	Amsden	Farmers' Union	Waterflood	Random	6-1-71	238	95	1	Third Cat Creek Sand.
Cut Bank, Marina Cut Bank	Cut Bank	BG&O Co.	Waterflood	5-Spot	6-72	2,075	-0-	SI	Madison
Cut Bank, Tweedy	Cut Bank	BG&O Co.	Waterflood	5-Spot	6-72	1,028	27	2	Madison
Cut Bank, Northeast	Cut Bank	Texaco, Inc.	Waterflood	5-Spot	6-2-63	13,409	-0-	SI	Madison
Cut Bank, Northwest	Cut Bank	Phillips	Waterflood	5-Spot	1-30-62	16,878	1,255	13	Madison
Cut Bank, Northcentral	Cut Bank	Phillips	Waterflood	5-Spot	5-78	1,810	1,845	21	Madison
Cut Bank, Southeast	Cut Bank	Texaco, Inc.	Waterflood	5-Spot	4-62	61,401	4,309	38	Madison
Cut Bank, Southwest	Cut Bank	Phillips	Waterflood	5-Spot	9-62	98,709	14,058	81	Madison
Cut Bank, Southcentral	Cut Bank	Union	Waterflood	5-Spot	5-63	38,574	3,809	21	Madison
Cut Bank	Lander "A"	Phillips	Waterflood	Random	4-65	1,713	238	2	Madison
Cut Bank	Lander	Texaco, Inc.	Waterflood	Random	7-64	8,128	-0-	SI	Eagle
Cut Bank, McGuiness	Moulton	Union	Waterflood	Random	12-62	5,289	828	1	Madison
Cut Bank	Cut Bank	Damson	Waterflood	5-Spot	9-1-71	5,046	599	9	Madison
Cut Bank, Two Medicine	Cut Bank	Conoco	Waterflood	Random	12-67	46,841	5,531	84	Madison
Cut Bank, Dalquist	Cut Bank	Union	Waterflood	Random	11-12-79	20	36	1	Madison
Cut Bank, Northeast Darling Unit	Moulton	Ralph Fair	Waterflood	Random	2-68	5,693	216	2	Produced Water
Cut Bank, Darling State	Moulton	BG&O Co.	Waterflood	Random	2-67	2,472	-0-	SI	Madison
Cut Bank, Darling South Swenson	Moulton	BG&O Co.	Waterflood	Random	2-67	7,548	-0-	SI	Madison
Dwyer	Ratcliffe	Phillips	Waterflood	Peripheral	10-68	3,191	1,224	5	Madison
Elk Basin	Embar-Tensleep	Amoco	Gas Injection	Crestal	12-72	2,331	-0-	-0-	Produced Gas (None)
Elk Basin, Unit #2	Embar-Tensleep	Amoco	Waterflood	Random	1949	2,431	-0-	-0-	Produced Water
Elk Basin	Frontier	Amoco	Waterflood	Random	1926	4,769	2,211	2	Produced Water
Elk Basin, Madison Unit #2	Madison	Amoco	Waterflood	Peripheral	1962	12,276	76,252	8	Produced Water
Elk Basin, Northwest	Tensleep	ARCO	Waterflood	Semi-Peripheral	5-76	5,057	184	2	Madison Produced Water
Fairview, Northwest Unit	Red River	Superior	Gas Injection	Crestal	10-25-67	4,186	420	1	Produced Gas
Flat Coulee	Swift	Phillips	Waterflood	Peripheral	2-1-72	6,343	2,061	14	Eagle
Flat Lake	Ratcliffe	Chevron	Waterflood	Random	6-1-71	25,602	10,828	12	Produced Water
Frannie	Tensleep	Continental	Waterflood	Random	11-20-70	3,410	876	1	Produced Water
Fred & George Creek	Sunburst	Fulton	Waterflood	Random	7-70	27,687	5,885	2	Madison & Eagle
Gas City	Red River	Shell	Waterflood	Semi-Peripheral	10-31-69	12,981	-0-	SI	Mission Canyon
Goose Lake	Ratcliffe	Cotton Petroleum	Waterflood	Semi-Peripheral	1-73	9,610	4,504	5	Produced Water
Gumbo Ridge	Tyler B	Burlington Northern Inc.	Waterflood	Semi-Peripheral	6-1-80	166	790	2	Produced Water & 3rd Cat Creek
High Five	Stensvad	Grace Petroleum	Waterflood	Random	—	—	—	—	Produced Water & Cat Creek Sands (not initiated) (approved 9-11-80)
Jim Coulee	Tyler B	McAlester Fuel	Waterflood	Semi-Peripheral	7-72	9,773	3,160	5	Produced Water & 3rd Cat Creek
Keg Coulee, Northwest Unit	Tyler B	Flatt Corp	Waterflood	Semi-Peripheral	8-31-66	5,757	711	1	Madison
Keg Coulee, East	Tyler	Juniper Petroleum Corp.	Waterflood	Semi-Peripheral	12-24-69	3,609	-0-	-0-	3rd Cat Creek
Keg Coulee, South	Tyler	BG&O Co.	Waterflood	Semi-Peripheral	1-1-70	3,570	908	2	Madison
Kelly	Tyler	McAlester Fuel	Waterflood	Random	7-69	3,105	851	1	Produced Water & 3rd Cat Creek
Kevin-Sunburst	Madison	BG&O Co.	Waterflood	Random	8-64	8,238	1,200	7	Madison
Kevin-Sunburst	Madison	Texaco, Inc.	Waterflood	Semi-Peripheral	8-64	10,893	1,754	7	Madison
Laird Creek	Swift	Burlington Northern Inc.	Waterflood	Semi-Peripheral	2-25-77	704	263	3	Sawtooth
Laurel	Dakota	Lakota Energy	Gas Injection	Random	—	-0-	-0-	-0-	Muddy (not initiated)
Little Beaver	Red River	Shell	Waterflood	Semi-Peripheral	8-7-66	33,476	3,403	11	Produced Water
Little Beaver, East	Red River	Shell	Waterflood	Semi-Peripheral	4-65	13,272	1,681	5	Red River-Minnelusa
Lookout Butte (Coral Creek)	Red River	Shell	Waterflood	Semi-Peripheral	4-67	28,972	5,164	12	Minnelusa (Cum. to 9/1/80)
Lookout Butte (Coral Creek)	Mlp & Ord	Shell	Waterflood	Semi-Peripheral	9-76	1,632	1,063	1	Minnelusa (Cum. to 9/1/80) (2/69-9/76 Cum RR 1.625 & Mlp 1.993 M bbls.)
Pennel	Stony Mtn & Red River	Shell	Waterflood	Random	8-28-69	89,254	24,400	54	Dakota & Produced (Cum. to 9/1/80)
Pine, North	Silurian-Ord.	Shell	Waterflood	Semi-Peripheral	3-68	18,589	1,092	4	Lodgepole (Cum. to 9/1/80)
Pine, South	Red River	Shell	Waterflood	Semi-Peripheral	3-59	170,121	18,150	26	Fox Hills & Produced (Cum. to 9/1/80)
Prichard Creek	Sunburst	Fulton	Waterflood	Random	4-73	219	274	1	Eagle
Ragged Point	Tyler	Buttes Resources	Waterflood	Semi-Peripheral	12-3-66	7,761	1,344	7	Third Cat Creek
Reagan	Madison	Union	Waterflood	Random	7-73	2,065	363	4	Produced Water
Reagan	Madison	Union	Gas Injection	Random	8-61	5,160	140	2	Associated Gas
Red Creek	Cut Bank	Exxon	Waterflood	5-Spot	6-65	14,428	2,565	5	Madison

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	Source of Injection Media and Remarks
Richey, Southwest	Dawson Bay & Interlake	ARCO	Waterflood	Random	12-65	2,521	202	1	Fox Hills
Stensvad	Tyler	Tomahawk Oil Company	Waterflood	Semi-Peripheral	2-63	28,209	196	1	Madison
Sumatra, Grebe	Tyler	F U C.E.	Waterflood	Random	6-16-75	468	261	51	Madison & Produced Water
Sumatra	Tyler	Butte Resources	Waterflood	Semi-Peripheral	6-80	99	473	2	Madison
Sumatra, Central	Tyler	Texaco, Inc	Waterflood	Semi-Peripheral	9-16-69	95,691	24,476	16	Madison & Produced Water
Sumatra, Northeast	Tyler	Texaco, Inc	Waterflood	Semi-Peripheral	9-16-69	6,500	2,084	5	Madison & Produced Water
Sumatra, Southeast	Tyler	Buttes Resources	Waterflood	Semi-Peripheral	12-1-69	13,493	3,528	7	Madison
Sumatra, West	Tyler	Continental	Waterflood	Semi-Peripheral	10-68	31,703	11,867	8	Produced Water
Sumatra, Kincheloe	Tyler	Exeter Exploration	Waterflood	Semi-Peripheral	—	—	—	—	Madison (not initiated) (approved 6/13/80)
Winnett Junction	Tyler	Petro-Lewis	Waterflood	Random	10-1-77	2,715	1,776	1	Produced Water

OIL AND GAS FIELDS

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
ALMA					
Greenhorn (U. Cret.)	1	Structural	Depletion	640-acre spacing units. Location to be no closer than 990' from spacing unit boundary. (Order 19-77.)	None
Blackleaf & Bow Island (L. Cret.)	1	Strat.			
Sawtooth (M. Jur.) (Shut-in)	1				
AMANDA					
Swift (U. Jur.)	1	Strat.	Depletion	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
Cut Bank (L. Cret.) (Shut-in)	1				
ANDES					
Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
ANTELOPE COULEE					
Blackleaf (L. Cret.) (Shut-in)	3	Structural Strat.	Water Drive	State-wide	None
ANVIL					
Red River (Ord.)	2	Structural- Strat.	Water Drive	State-wide.	None
ANVIL, NORTH					
Ratcliffe (Miss.)	1	Structural- Strat.	Water Drive	State-wide	None
ARCH APEX					
Bow Island (L. Cret.) Gas	34	Strat.	Volumetric	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) State-wide.	None
Swift (U. Jur.) (Shut-in)	5	Strat.			
Sunburst (L. Cret.) Oil (Shut-in)	6 6	Strat.	Depletion		
ASH CREEK					
Shannon (U. Cret.) (Shut-in)	3 1	Structural	Partial Water Drive and Depletion	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.)
ASSINIBOINE CREEK					
Niobrara (U. Cret.) (Shut-in)	1	Structural	Depletion	State-wide.	None
BADLANDS					
Eagle (U. Cret.) Gas (Shut-in)	7 1	Structural Strat.	Volumetric	Drilling and spacing units allow one well per governmental section to be located anywhere within a section but no closer than 990' from a section line (Order 22-78.)	None
BAINVILLE					
Red River (Ord.) (Shut-in)	1	Structural- Strat.	Depletion- Water Drive	State-wide.	Produced Water disposed into Red River formation. (Order 7-A-75.)
BAINVILLE, NORTH					
Winnepegosis (Dev.)	2	Structural	Water Drive	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.)	2				
Ratcliffe (Miss.)	1				

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal																																																																																														
BAINVILLE, WEST Ratcliffe (Miss.)	1	Structural-Strat.	Depletion-Water Drive	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. (Order 19-78.) (Amendment to Order 19-78 by Order 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					BANNATYNE Swift (U. Jur.)	12	Structural	Comb. Water Drive and Volumetric	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	BATTLE CREEK Eagle (U. Cret.) Gas	24	Structural	Volumetric	State-wide.	None	BEARS DEN Sunburst (L. Cret.) Gas (Shut-in)	1	Structural	Depletion and Gas Cap Drive	State-wide.	None	Swift (U. Jur.) Oil	7	Sawtooth (Jur.) Gas (Shut-in)	1	BELL CREEK Muddy (L. Cret.) Oil & Gas	140	Strat.	Depletion	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, see (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)	151	BELL CREEK SOUTHEAST Muddy (L. Cret.) Gas	2	Strat.	Depletion	160-acre spacing units, wells 660' from spacing boundary. (Order 31-72.)	None	(Shut-in) (TA)	1	BENRUD Nisku (Dev.)	2	Structural	Water Drive	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.)	BENRUD, EAST Nisku (Dev.)	3	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73.)	BENRUD, NORTHEAST Nisku (Dev.)	1	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Order 32-66.)	BERTHELOTE Sunburst (L. Cret.)	1	Strat.	Depletion	40-acre spacing units with well no closer than 330' from lease or property line and no closer than 660' between wells. (Order 18-66.)	None	(Shut-in)	1	BIG COULEE 3rd Cat Creek (L. Cret.) Gas	9	Structural	Water Drive	State-wide.	None	(Shut-in)	1	Morrison (U. Jur.) Gas	1	BIG GULLY L. Tyler (Penn.)	2	Strat.	Depletion	State-wide.	None	BIG GULLY, NORTH L. Tyler (Penn.)	1	Strat.	Depletion	State-wide.	None	BIG MUDDY CREEK Interlake (Sil.)	1	Structural	Water Drive
BANNATYNE Swift (U. Jur.)	12	Structural	Comb. Water Drive and Volumetric	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					BATTLE CREEK Eagle (U. Cret.) Gas	24	Structural	Volumetric	State-wide.	None	BEARS DEN Sunburst (L. Cret.) Gas (Shut-in)	1	Structural	Depletion and Gas Cap Drive	State-wide.	None	Swift (U. Jur.) Oil	7	Sawtooth (Jur.) Gas (Shut-in)	1					BELL CREEK Muddy (L. Cret.) Oil & Gas	140	Strat.	Depletion	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, see (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)	151	BELL CREEK SOUTHEAST Muddy (L. Cret.) Gas	2	Strat.	Depletion	160-acre spacing units, wells 660' from spacing boundary. (Order 31-72.)	None	(Shut-in) (TA)	1	BENRUD Nisku (Dev.)	2	Structural	Water Drive	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.)	BENRUD, EAST Nisku (Dev.)	3	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73.)	BENRUD, NORTHEAST Nisku (Dev.)	1	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Order 32-66.)	BERTHELOTE Sunburst (L. Cret.)	1	Strat.	Depletion	40-acre spacing units with well no closer than 330' from lease or property line and no closer than 660' between wells. (Order 18-66.)	None	(Shut-in)	1	BIG COULEE 3rd Cat Creek (L. Cret.) Gas	9					Structural	Water Drive	State-wide.	None	(Shut-in)	1	Morrison (U. Jur.) Gas	1	BIG GULLY L. Tyler (Penn.)	2	Strat.	Depletion	State-wide.	None	BIG GULLY, NORTH L. Tyler (Penn.)	1	Strat.	Depletion	State-wide.	None
BATTLE CREEK Eagle (U. Cret.) Gas	24	Structural	Volumetric	State-wide.	None																																																																																														
BEARS DEN Sunburst (L. Cret.) Gas (Shut-in)	1	Structural	Depletion and Gas Cap Drive	State-wide.	None																																																																																														
Swift (U. Jur.) Oil	7																																																																																																		
Sawtooth (Jur.) Gas (Shut-in)	1																																																																																																		
BELL CREEK Muddy (L. Cret.) Oil & Gas	140	Strat.	Depletion	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, see (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)	151																																																																																																		
BELL CREEK SOUTHEAST Muddy (L. Cret.) Gas	2	Strat.	Depletion	160-acre spacing units, wells 660' from spacing boundary. (Order 31-72.)	None																																																																																														
(Shut-in) (TA)	1																																																																																																		
BENRUD Nisku (Dev.)	2	Structural	Water Drive	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.)																																																																																														
BENRUD, EAST Nisku (Dev.)	3	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73.)																																																																																														
BENRUD, NORTHEAST Nisku (Dev.)	1	Structural	Water Drive	Same as Benrud Field. (Order 6-65.)	Water disposal into Judith River formation. (Order 32-66.)																																																																																														
BERTHELOTE Sunburst (L. Cret.)	1	Strat.	Depletion	40-acre spacing units with well no closer than 330' from lease or property line and no closer than 660' between wells. (Order 18-66.)	None																																																																																														
(Shut-in)	1																																																																																																		
BIG COULEE 3rd Cat Creek (L. Cret.) Gas	9	Structural	Water Drive	State-wide.	None																																																																																														
(Shut-in)	1																																																																																																		
Morrison (U. Jur.) Gas	1																																																																																																		
BIG GULLY L. Tyler (Penn.)	2	Strat.	Depletion	State-wide.	None																																																																																														
BIG GULLY, NORTH L. Tyler (Penn.)	1	Strat.	Depletion	State-wide.	None																																																																																														
BIG MUDDY CREEK Interlake (Sil.)	1	Structural	Water Drive	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																																																																																														
Red River (Ord.)	3																																																																																																		

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BIG ROCK Blackleaf (L. Cret.) Gas	38	Strat.	Depletion	640-acre spacing units for Blackleaf "A" formation. Location to be no closer than 990' to any governmental section line. (Order 31-78.)	None
BIG WALL Amsden (Penn.)	2	Structural	Water Drive	Spaced by old state-wide 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.)
Tyler (Penn.)	8	Structural-	Depletion		
(Shut-in)	7	Strat.			
BIG WALL, NORTH Stensvad (Penn.)	1	Structural-Strat.	Water Drive	State-wide.	None
BILLS COULEE Sunburst (L. Cret.) Madison (Miss.) Gas	3	Strat.	Depletion	Field without restrictions except that no well may be drilled closer than 330' from the exterior boundary of the field. (Order 22-80).	None
(Shut-in)	2				
BLACK BUTTE Eagle (U. Cret.) Gas	2	Structural Strat.	Volumetric	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
BLACK COULEE Eagle (U. Cret.) Gas	7	Structural-Strat.	Water Drive	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
BLACKFOOT Cut Bank (L. Cret.) - Madison (Miss.)	6	Strat.	Depletion	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.)
Sunburst (L. Cret.)	1				
BLACKFOOT-SHALLOW GAS Dakota (L. Cret.)	10	Structural Strat.	Volumetric Depletion	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
BLACK JACK Sunburst (L. Cret.) Gas	12	Strat.	Depletion	One gas well per 160-acres, no closer than 660' from boundary of each unit. (Order 3-69.) State-wide 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	2				
BLACKLEAF CANYON Sun River (Miss.) Gas	1	Structural Strat.	Volumetric Depletion	State-wide.	None
BLUE HILL Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
BORDER Cut Bank (L. Cret.) Oil & Gas	8	Strat.	Depletion	Oil: Unitized into New and Old Border fields. Unitized 6-1-73. (Orders 8-73, 9-73.) Gas: 330' from boundary of legal subdivision. 2,400' between wells in same formation on same lease. 75' topographic tolerance. (Order 7-54.)	Waterflood approved. (Orders 8-73, 9-73, 28-73.)
(Shut-in)	2				
Cut Bank (L. Cret.) Gas	2				
BOULDER Duperow (Dev.)	1	Structural	Water Drive	State-wide spacing (Order 16-71)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal																																																																																																																																																																																																												
BOWDOIN & ADJ. AREA																																																																																																																																																																																																																	
Bowdoin & Phillips sands in Colorado Shale (U. Cret.) Gas	546	Structural	Volumetric	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.)	Produced water injected into Phillips Sand-Ashfield unit. (Order 10-A-77.)																																																																																																																																																																																																												
(Shut-in)	75					BOWES						Eagle (U. Cret.) Gas	29	Structural	Volumetric	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.)	None	(Shut-in)	7			Sawtooth (M. Jur.) Oil	54	Structural	Partial Water Drive	330' from lease or property line, 990' between wells in the same formation. (Order 13-54.)	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61.) Water from Madison.	(Shut-in)	24			BOX CANYON						Red River (Ord.)	1	Structural	Depletion Water Drive	State-wide	None	BOX ELDER						Nisku (Dev.)	1	Structural	Water Drive	State-wide	None	BRADLEY						Cut Bank (L. Cret.) Gas	1	Structural	Water Drive	State-wide.	None	(Shut-in)	1			Madison (Miss.)	2					BRADY						Sunburst (L. Cret.)	3	Strat.	Depletion Partial Water Drive	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62.)	None	BREED CREEK						Tyler (Penn.)	4	Strat.	Depletion	State-wide.	None	(Shut-in)	2			BRORSON						Mission Canyon (Miss.) Oil & Gas	4	Structural	Volumetric Water Drive	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River.) (Order 5-69.) Gas to Brorson Field Plant	None	(Shut-in)	1			Red River (Ord.) Oil & Gas	2			(Shut-in)	1			Ratcliffe (Miss.) Oil	1					BRORSON, SOUTH						Red River (Ord.) Oil & Gas	4	Structural	Volumetric Water Drive	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			BROWN'S COULEE						Judith River (U. Cret.) Gas	2	Structural	Volumetric	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	2			BROWN'S COULEE, EAST						Eagle (U. Cret.) Gas	2	Structural	Volumetric	State-wide.	None	(Shut-in)	4			BROKEN BOW						Blackleaf (L. Cret.) Gas	1	Strat.	Depletion	State-wide.	None	BRUSH LAKE						Red River (Ord.) Oil & Gas	5	Structural-	Depletion	320-acre spacing with initial nine spacing units described in (Order 15-71 corrected.)	None	(Shut-in)	2
BOWES																																																																																																																																																																																																																	
Eagle (U. Cret.) Gas	29	Structural	Volumetric	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.)	None																																																																																																																																																																																																												
(Shut-in)	7					Sawtooth (M. Jur.) Oil	54	Structural	Partial Water Drive	330' from lease or property line, 990' between wells in the same formation. (Order 13-54.)	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61.) Water from Madison.	(Shut-in)	24			BOX CANYON						Red River (Ord.)	1	Structural	Depletion Water Drive	State-wide	None	BOX ELDER						Nisku (Dev.)	1	Structural	Water Drive	State-wide	None	BRADLEY						Cut Bank (L. Cret.) Gas	1	Structural	Water Drive	State-wide.	None	(Shut-in)	1			Madison (Miss.)	2					BRADY						Sunburst (L. Cret.)	3	Strat.	Depletion Partial Water Drive	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62.)	None	BREED CREEK						Tyler (Penn.)	4	Strat.	Depletion	State-wide.	None	(Shut-in)	2			BRORSON						Mission Canyon (Miss.) Oil & Gas	4	Structural	Volumetric Water Drive	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River.) (Order 5-69.) Gas to Brorson Field Plant	None	(Shut-in)	1			Red River (Ord.) Oil & Gas	2			(Shut-in)	1			Ratcliffe (Miss.) Oil	1							BRORSON, SOUTH						Red River (Ord.) Oil & Gas	4	Structural	Volumetric Water Drive	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			BROWN'S COULEE						Judith River (U. Cret.) Gas	2	Structural	Volumetric	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	2			BROWN'S COULEE, EAST						Eagle (U. Cret.) Gas	2	Structural	Volumetric	State-wide.	None	(Shut-in)	4			BROKEN BOW						Blackleaf (L. Cret.) Gas	1	Strat.	Depletion	State-wide.	None	BRUSH LAKE						Red River (Ord.) Oil & Gas	5	Structural-	Depletion	320-acre spacing with initial nine spacing units described in (Order 15-71 corrected.)	None	(Shut-in)	2	Strat.	Water Drive												
Sawtooth (M. Jur.) Oil	54	Structural	Partial Water Drive	330' from lease or property line, 990' between wells in the same formation. (Order 13-54.)	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61.) Water from Madison.																																																																																																																																																																																																												
(Shut-in)	24					BOX CANYON						Red River (Ord.)	1	Structural	Depletion Water Drive	State-wide	None	BOX ELDER						Nisku (Dev.)	1	Structural	Water Drive	State-wide	None	BRADLEY						Cut Bank (L. Cret.) Gas	1	Structural	Water Drive	State-wide.	None	(Shut-in)	1			Madison (Miss.)	2					BRADY						Sunburst (L. Cret.)	3	Strat.	Depletion Partial Water Drive	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62.)	None	BREED CREEK						Tyler (Penn.)	4	Strat.	Depletion	State-wide.	None	(Shut-in)	2			BRORSON						Mission Canyon (Miss.) Oil & Gas	4	Structural	Volumetric Water Drive	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River.) (Order 5-69.) Gas to Brorson Field Plant	None	(Shut-in)	1			Red River (Ord.) Oil & Gas	2					(Shut-in)	1			Ratcliffe (Miss.) Oil	1					BRORSON, SOUTH						Red River (Ord.) Oil & Gas	4	Structural	Volumetric Water Drive	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			BROWN'S COULEE						Judith River (U. Cret.) Gas	2	Structural	Volumetric	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	2			BROWN'S COULEE, EAST						Eagle (U. Cret.) Gas	2	Structural	Volumetric	State-wide.	None	(Shut-in)	4			BROKEN BOW						Blackleaf (L. Cret.) Gas	1	Strat.	Depletion	State-wide.	None	BRUSH LAKE						Red River (Ord.) Oil & Gas	5	Structural-	Depletion	320-acre spacing with initial nine spacing units described in (Order 15-71 corrected.)	None	(Shut-in)	2	Strat.	Water Drive																						
BOX CANYON																																																																																																																																																																																																																	
Red River (Ord.)	1	Structural	Depletion Water Drive	State-wide	None																																																																																																																																																																																																												
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Nisku (Dev.)	1	Structural	Water Drive	State-wide	None																																																																																																																																																																																																												
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Cut Bank (L. Cret.) Gas	1	Structural	Water Drive	State-wide.	None																																																																																																																																																																																																												
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Sunburst (L. Cret.)	3	Strat.	Depletion Partial Water Drive	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62.)	None																																																																																																																																																																																																												
BREED CREEK																																																																																																																																																																																																																	
Tyler (Penn.)	4	Strat.	Depletion	State-wide.	None																																																																																																																																																																																																												
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BRORSON																																																																																																																																																																																																																	
Mission Canyon (Miss.) Oil & Gas	4	Structural	Volumetric Water Drive	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River.) (Order 5-69.) Gas to Brorson Field Plant	None																																																																																																																																																																																																												
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Ratcliffe (Miss.) Oil	1																																																																																																																																																																																																																
BRORSON, SOUTH																																																																																																																																																																																																																	
Red River (Ord.) Oil & Gas	4	Structural	Volumetric Water Drive	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																																																																																																																																																																																																																
BROWN'S COULEE																																																																																																																																																																																																																	
Judith River (U. Cret.) Gas	2	Structural	Volumetric	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	2																																																																																																																																																																																																																
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Blackleaf (L. Cret.) Gas	1	Strat.	Depletion	State-wide.	None																																																																																																																																																																																																												
BRUSH LAKE																																																																																																																																																																																																																	
Red River (Ord.) Oil & Gas	5	Structural-	Depletion	320-acre spacing with initial nine spacing units described in (Order 15-71 corrected.)	None																																																																																																																																																																																																												
(Shut-in)	2	Strat.	Water Drive																																																																																																																																																																																																														

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BUFFALO FLAT					
Bow Island (L. Cret.) Gas	1	Structural	Volumetric	Statewide.	None
BULLWACKER					
Judith River (U. Cret.) Gas	4	Structural	Volumetric	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	37				
(Shut-in)	9				
BURNS CREEK					
Red River (Ord.)	2	Structural	Depletion Water Drive	State-wide.	None
CABIN CREEK					
Mission Canyon (Miss.) Oil & Gas	10	Structural	Water Drive	Spacing waived and General Rules for (Deviation), (Commingling), and (Dual Completion) are suspended until present Unit Agreement becomes in-operative. (Order 36-62.) Many wells produce from both Interlake and Red River by dual completions. Gas through extraction plant.	Waterflood of Siluro-Ordovician reservoir has been expanded to full scale peripheral flood (Orders 60-62, 30-63.)
(Shut-in)	16		Depletion		
Interlake-Red River Oil & Gas	70	Structural	Water Drive,		
(Sil.) (Ord.) (Shut-in)	6		Depletion		
CAMP CREEK					
Claggett (U. Cret.) Gas	1	Structural	Volumetric	Statewide.	None
CANADIAN COULEE					
Sawtooth (M. Jur.) Gas	2	Structural-Strat.	Volumetric	320-acre spacing units with well location no closer than 660' from unit boundary, and 990' from field exterior boundaries. (Order 18-76.)	None
(Shut-in)	2				
CANADIAN COULEE, NORTH					
Sawtooth (M. Jur.) Gas	3	Structural-Strat.	Volumetric	640-acre spacing units. Location to be no closer than 1650' to section line (Order 15-75.)	None
(Shut-in)	2				
CANAL					
Red River (Ord.)	1	Structural	Water Drive	320-acre spacing units consisting of East half and West half of governmental section. (Order 34-70.)	None
Mission Canyon (Miss.) (Shut-in)	1	Structural	Depletion		
CANNON BALL					
Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
CARLYLE					
Red River (Ord.)	2	Structural	Water Drive	320-acre spacing units; to consist of either the N/2 or S/2 or E/2 or 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.)	None
CAT CREEK					
Kootenai (L. Cret.) (3 Sands)	40	Structural-Strat.	Water Drive	220' from lease or property line, 440' from every other well in same formation. (Order 17-55.) Five separate producing areas, East, Antelope, Mosby, West and Landheim Domes.	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.)
(3 sands) (Shut-in)	1				
Morrison (U. Jur.)	2	Structural-Strat.	Water Drive		
Ellis (U. Jur.)	26	Structural	Depletion-		
(Shut-in)	2		Water Drive		
Amsden (Penn.)	2	Structural-Strat.	Water Drive	State-wide.	
CEDAR CREEK					
Judith River (U. Cret.) Gas	79	Structural	Volumetric	1200' from legal subdivision line, 2400' from every other well in same formation. (Order 33-54.)	None
(Shut-in)	9				
Eagle (U. Cret.) Gas	66	Structural	Volumetric	320-acre spacing units, Wells in center of NW¼ and SE¼ of each section with 200' topographic tolerance. (Order 1-61.) Field extension (Order 23-76.)	None
(Shut-in)	6				

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
CHAIN LAKES Eagle (U. Cret.) (Shut-in)	2 2	Structural	Volumetric	State-wide.	None
CHARLIE CREEK Nisku (Dev.) Duperow (Dev.)	1 1	Structural Structural	Water Drive Water Drive	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
CHARLIE CREEK, EAST Red River (Ord.)	1	Structural	Water Drive	Statewide.	None
CHESTER Bow Island (L. Cret.)	1	Structural	Volumetric	State-wide.	None
CHINOOK, EAST Eagle (U. Cret.)	3	Structural-Strat.	Volumetric	State-wide.	None
CHIP CREEK Eagle-Virgelle (U. Cret.)	3	Structural-Strat.	Volumetric	160-acre spacing units. Location no closer than 660' from spacing unit boundary. (Order 89-76.)	None
CLARK'S FORK Frontier (U. Cret.) (Shut-in)	1	Structural-Strat.	Depletion	330' from quarter-quarter section line, 1320' between wells with 75' topographic tolerance. (Order 17-54.)	None
CLARK'S FORK, NORTH Lakota (L. Cret.) Gas & Oil (Shut-in)	2 1	Structural-Strat.	Volumetric	160-acre quarter section spacing with location no closer than 660' from spacing unit boundary. (Order 23-75.)	None
CLARK'S FORK, SOUTH Greybull (L. Cret.) Oil & Gas (Shut-in)	2 1	Structural-Strat.	Depletion-Water Drive	160-acre spacing, location no closer than 330' from quarter section line or 1320' from any other well.	None
CLEAR LAKE Red River (Ord.) Mission Canyon (Miss.)	5 1	Structural	Water Drive	State-wide.	Produced water disposed into Dakota, Muddy, Lakota, & Swift formation. (Order 41-A-80.)
CLEAR LAKE SOUTH Red River (Ord.) Nisku (Dev.)	2 2	Structural	Water Drive	State-wide.	None
COAL COULEE Eagle (U. Cret.) Gas	1	Structural-Strat.	Volumetric	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
COAL RIDGE Mission Canyon (Miss.)	1	Structural	Water Drive	State-wide.	Produced water injected into the Dakota formation (Order 81-A-79.)
COLORED CANYON Red River (Ord.)	1	Structural-Strat.	Water Drive	State-wide.	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
COMERTOWN Red River (Ord.)	2	Structural-Strat.	Water Drive	320-acre spacing units; permitted well to be no closer than 660' to unit boundary. (Order 35-80.)	None
CONRAD BUTTE (See Ledger Field)					
CONRAD SOUTH Dakota (L. Cret.)	3	Strat.	Depletion	10-acre spacing units. Wells in center of each unit with 75' topographic tolerance. (Orders 34-62, 31-63.)	None
(Shut-in)	9				
COW CREEK Charles (Miss.)	1	Structural	Water Drive	80-acre spacing units, direction at option of operator but wells to be in SW¼ and NE¼ of each quarter section. (Order 11-69.)	None
COW CREEK, EAST Kibbey (Miss.)	11	Structural	Water Drive	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.)
CRANE Red River (Ord.) Duperow (Dev.)	1 2	Structural-Strat.	Water Drive	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
(Shut-in)					
CULBERTSON Red River (Ord.)	1	Structural-Strat.	Depletion-Water Drive	State-wide in part. Unitized as to SE¼ of Section 32, SW¼ of Section 33, N½NW¼ of Section 4, and N½NE¼ of Section 5. (Order 29-70.)	Produced water disposed into Red River formation. (Order 13-A-72.)
CUPTON Red River (Ord.)	9	Structural-Strat.	Water Drive	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.)
(Shut-in)	2				
CUT BANK Kootenai (L. Cret.) Oil & Gas Madison (Miss.) Oil & Gas (Gas only) Cut Bank (L. Cret.) Gas Sunburst (L. Cret.) Gas Moulton (L. Cret.) Gas Bow Island (L. Cret.) Gas	886 39 8 48 178 29 3 4 2 3	Strat. Strat. Strat. Strat. Strat. Strat. Strat. Structural	Depletion Water Drive Depletion Depletion Depletion Depletion Volumetric	(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 (N½ & S½.) (Order 26-70.) 320-acre spacing units for gas; (Cut Bank) units: (E½ & W½) 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 22-A-74, 55-A-77.), (60-A-80.), (91-A-80.)
(Shut-in)					
(Shut-in)					
(Shut-in)					
(Shut-in)					
(Shut-in)					
(Shut-in)					
DAGMAR Red River (Ord.)	2	Structural	Water Drive	State-wide.	None
DARLING (Included as part of Cut Bank Field)					
DEAN DOME Greybull (L. Cret.) Gas Oil	1 1	Structural Structural	Water Drive Water Drive	State-wide. Oil ring below gas cap.	None
(Shut-in)					

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
DEER CREEK Interlake (Sil.)	1	Structural	Water Drive	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Well location in NE¼ and SW¼ 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.)
DELPHIA Amsden (Penn.)	2	Structural	Water Drive	State-wide.	None
DEVIL'S BASIN Heath (U. Miss.)	7 (Shut-in) 3	Structural	Depletion	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
DEVON Blackleaf (U. Cret.) Gas (Shut-in) Kootenai (L. Cret.) Oil Depleted	21	Strat. Strat.	Volumetric Depletion	State-wide. State-wide.	None None
DEVON, SOUTH Bow Island (L. Cret.) Gas (Shut-in)	1 10	Strat.	Volumetric	Drilled on state-wide spacing. Unitized for primary production. (Order 28-71, corrected.)	None
DIAMOND POINT Red River (Ord.)	1	Structural	Water Drive	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
DIVIDE Mission Canyon (Miss.)	5	Structural	Water Drive	State-wide.	Produced water disposed into Dakota formation. (Order 42-A-80.)
DRY CREEK Eagle (U. Cret.) Gas Judith River (U. Cret.) (Shut-in) Frontier (U. Cret.) Gas (Shut-in) Greybull (L. Cret.) Gas Greybull (L. Cret.) Oil (Shut-in)	1 2 9 2 2 7 1	Structural- Strat. Structural Strat.	Volumetric Volumetric Volumetric- Depletion	State-wide. Field re-delineated. (Order 8-70.) Six additional gas storage wells, west end of structure.	None
DRY CREEK MIDDLE Frontier (U. Cret.) Gas Lakota (L. Cret.) Gas (Shut-in)	1 1	Structural- Strat.	Volumetric	320-acre spacing units consisting of two adjacent governmental quarter sections lying N-S or E-W at operator's option with permitted well no closer than 660' from spacing boundary. (Order 25-75.)	None
DRY CREEK, WEST Greybull (L. Cret.) Oil & Gas (Gas) (Shut-in)	1 1	Structural- Strat.	Volumetric Depletion	160-acre spacing units; well location anywhere in spacing unit but no closer than 660' from unit boundary. (Order 43-78.)	None
DRY CREEK (Shallow Gas) Judith River (U. Cret.) Eagle (U. Cret.) Virgelle (U. Cret.)	2 1 1	Structural Structural- Strat.	Volumetric Volumetric	160-acre spacing units; (all formations capable of producing gas from the top of the Cody to the surface). One well per horizon per spacing unit to be located no closer than 660' from unit boundary. (Order 54-76.)	None
DUNKIRK, NORTH Bow Island (L. Cret.) Gas (Shut-in)	9 5	Strat.	Water Drive	One well per governmental section per zone or horizon. Each producing well to be located anywhere within section but no closer than 990' feet from section line. (Order 25-77.) Field enlargement. (Order 64-78.)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
DWYER Ratcliffe (Miss.) (Shut-in)	10 5	Structural-Strat.	Water Drive-Volumetric	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.) Waterflood. (Order 20-68.)
EAGLE Mission Canyon (Miss.)	6	Structural	Water-Drive	State-wide.	None
EAGLE SPRINGS Bow Island (L. Cret.) Gas (Shut-in)	7 3	Structural	Depletion	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
EAST GLACIER Greenhorn (U. Cret.)	1	Structural		State-wide.	None
ELK BASIN (Mont. Portion) Frontier (U. Cret.) (Shut-in) Embar-Tensleep (Perm., Penn.) (Shut-in) Madison (Miss.) Big Horn (Ord.)	13 6 18 10 27 1	Structural	Gravity Drainage Gravity Drainage Water Drive	State-wide 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.)
ELK BASIN, NORTHWEST Frontier (U. Cret.) (Shut-in) Embar-Tensleep (Perm., Penn.) O&G Madison (Miss.) (Shut-in)	7 4 2	Structural	Depletion Gravity Drainage Water Drive	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.
ENID, NORTH Red River (Ord.)	2	Structural-Strat.	Water Drive	Spaced for one well field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T-23N R-54E (Order 45-79.)	None
ETHRIDGE AREA Bow Island (L. Cret.) Gas (Shut-in) Swift (U. Jur.) Gas (Shut-in)	3 5 2	Strat. Strat.	Water Drive Water Drive	State-wide, except two wells by (Order 28-65.)	None
FAIRVIEW Winnipegosis (Dev.) Oil & Gas (Shut-in) Red River (Ord.) Oil & Gas (Shut-in) Mission Canyon (Miss.)	3 8 3 1	Structural	Water Drive Water Drive Water Drive	160-acre spacing unit. 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 Brorson fields. (Order 11-70.) Salt water disposal into Dakota. (Orders 9-A-71, 24-A-71.)
FAIRVIEW, WEST Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
FERTILE PRAIRIE Red River (Ord.)	1	Structural-Strat.	Water Drive	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 & 7-62) amended to provide well locations for each 80-acre spacing units 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
FIDDLER CREEK Greybull (L. Cret.)	1	Structural Strat.	Depletion	State-wide.	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
FISHHOOK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
FITZPATRICK LAKE Bow Island (U. Cret.) Gas (Shut-in)	7 2	Strat.	Depletion	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
Sunburst (L. Cret.) Gas	1				
FLAT COULEE Bow Island (L. Cret.) Gas (Shut-in)	3 1	Structural Strat.	Depletion	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.)
Dakota (L. Cret.) Gas	2	Strat.	Depletion	State-wide, exception. (Order 11-66.)	
Swift (Jur.) Gas (Shut-in)	1	Strat.	Depletion	State-wide gas spacing.	
Swift (Jur.) Oil	22	Strat.	Depletion	40-acre spacing units. Well in center of spacing unit with 150' topographic tolerance. (Orders 16-62, 19-63.)	
Sawtooth (Jur.) Gas (Shut-in)	1 1	Strat.	Depletion	State-wide.	
FLAT COULEE, EAST Sawtooth (M. Jur.)	1	Structural	Water Drive	State-wide.	None
FLAT LAKE Ratcliffe (Miss.) (Shut-in)	49 7	Structural Strat.	Partial Water Drive	160-acre spacing units; well location in center of NE¼ 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.) Unit operation for eastern part of field. (Order 7-71.) Unit operation for western part of field. (Order 32-74.)
FLAT LAKE, SOUTH Ratcliffe (Miss.) (Shut-in)	3 2	Structural- Strat.	Partial Water Drive	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.)
FORT GILBERT Red River (Ord.)	3	Structural	Depletion	State-wide.	None
Red River (Ord.) & Mission Canyon (Miss.)	1		and Water Drive		
FOUR MILE CREEK Red River (Ord.) (Shut-in)	1	Structural	Depletion	320-acre spacing units. (Order 43-75.)	None
FOUR MILE CREEK, WEST Red River (Ord.)	2	Structural	Depletion	State-wide.	None
FOX CREEK Stonewall (Ord.)	1	Structural	Depletion	State-wide.	None
FOX CREEK, NORTH Mission Canyon (Miss.) O&G	3	Structural	Depletion	State-wide.	None
FRANNIE (Mont. Portion) Tensleep (Penn.)	1	Structural	Comb. Water Drive and Gravity Drainage	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.)
FRED & GEORGE CREEK Sunburst (L. Cret.) Oil & Gas (Shut-in)	19 6	Strat.	Depletion	Oil: 40-acre spacing units; well location in center of unit with 250' topographic tolerance. (Orders 29-63, 1-65.) State-wide. Order 29-63 amended by (Order 48-77.)	Sunburst waterflood initiated July, 1970, using water from Madison. (Order 13-70) and Eagle water. (Order 27-71.) (Order 40-80.)
Swift (U. Jur.) Oil & Gas (Shut-in)	17 10	Strat.	Depletion		
Bow Island (L. Cret.) Gas (Shut-in)	1 2	Structural	Depletion		

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
FRESNO Eagle-Virgelle (U. Cret.) Gas	6	Structural-Strat.	Volumetric	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
FROG COULEE Red River (Ord.)	1	Structural	Water Drive	320-acre spacing units; wells to be located no closer than 660' from the unit boundary. (Order 55-79.)	None
FROID, SOUTH Red River (Ord.)	1	Structural Strat.	Depletion	State-wide.	None
FT. GILBERT Red River (Ord.)	4	Structural-Strat.	Depletion	State-wide.	None
GAGE Amsden (Penn.)	1	Structural	Water Drive	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.)	None
GALATA Bow Island (L. Cret.) Gas	1	Structural	Depletion	State-wide.	None
GAS CITY Red River (Ord.) (Shut-in)	11 9	Structural	Depletion-Water Drive	80-acre spacing units consisting of E½ and W½ of quarter sections; well location in NW¼ and SE¼ of quarter section; 150' topographic tolerance. Spacing waived and state-wide 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 disposal into Charles "B" formation. (Order 90-A-79.)
GIRARD Red River (Ord.)	1	Structural-Strat.	Depletion-Water Drive	State-wide.	None
GLENDIVE Red River (Ord.) Oil & Gas (Shut-in)	15 1	Structural-Strat.	Depletion-Water Drive	80-acre spacing units consisting of any two adjacent quarter-quarter sections; wells located in center of NE¼ and SW¼ 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.)
GOLD BUTTE Bow Island (L. Cret.) Gas	2	Structural	Water Drive	640-acre spacing, well location any quarter-quarter section cornering on center of section. (Order 26-59.) Amended field boundary. (Order 43-77.)	None
GOLDEN DOME Eagle (U. Cret.) Gas (Shut-in) Greybull (L. Cret.) Oil (Shut-in)	2 1	Structural-Strat.	Water Drive Depletion	160-acre spacing; 660' from spacing unit boundary. (Order 15-72.)	None
GOOSE LAKE Ratcliffe (Miss.) Oil & Gas (Shut-in)	34 4	Structural-Strat.	Partial Water Drive	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.)

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
GOOSE LAKE, EAST Red River (Ord.)	1	Structural Strat.	Water Drive	State-wide.	None
GOSSETT Mission Canyon (Miss.)	1	Structural	Depletion	State-wide.	None
GORMAN COULEE Eagle-Clagget J.R. (U. Cret.) Gas (Shut-in)	6	Structural Strat.	Water Drive	State-wide.	None
GRABEN COULEE Sunburst (L. Cret.) Gas (Shut-in)	19	Structural-Strat.	Depletion	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.)
Cut Bank (L. Cret.) (Shut-in)	28	Structural-Strat.	Depletion		
Cut Bank-Madison (Dual) (Shut-in)	4	Structural-Strat.	Depletion		
	2	Structural-Strat.	Depletion		
GRANDVIEW Bow Island-Sunburst (L. Cret.) Gas (2 Zones) (Shut-in)	7	Structural	Unknown	320-acre spacing units aligned in a north-south direction; well location no closer than 660' to a spacing unit boundary. (Order 49-67.) Dual completion with Bow Island.	None
Madison (Miss.) Gas	2				
	3	Structural	Unknown		
GRANDVIEW, EAST Swift (Jur.) (Shut-in)	2	Structural	Water Drive	State-wide.	None
	1				
GRANDVIEW, WEST Bow Island (L. Cret.) Gas	1	Structural	Unknown	State-wide.	None
GUMBO RIDGE Tyler (L. Penn.) (Shut-in)	4	Structural-Strat.	Unknown	State-wide.	3rd Cat Creek water for waterflood (Order 54-79.)
	2				
GUNSIGHT Ratcliffe (Miss.)	1	Structural-Strat.	Water Drive	State-wide.	None
GYPSY BASIN Sunburst (L. Cret.) Oil & Gas (Shut-in)	6	Structural-Strat.	Comb. Water Drive and Depletion	330' from lease lines and 660' between wells in same formation. Only two wells per quarter-quarter section. (Order 7-66.) Same as Sunburst.	Order 6-64 permits injection of excessive gas (produced with oil) into the Sunburst gas cap.
	5				
Swift (U. Jur.)	3	Structural-Strat.	Comb. Water Drive and Depletion		
Sawtooth-Madison (Jur. & Miss.) Oil & Gas (Shut-in)	5	Structural-Strat.	Comb. Water Drive and Depletion	(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.)	None
Gas	3				
(Shut-in)	8				
	2				
GYPSY, NORTH Sunburst (L. Cret.) Nisku (Dev.)	1	Structural Strat.	Water Drive & Depletion	Production of both oil & gas from all horizons allowed without restrictions except no well may be drilled closer than 330' from the exterior boundary of the field. (Order 11-80.)	None
	1				
HAMMOND (Gas) Muddy (L. Cret.) (Shut-in)	11	Strat.	Volumetric	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

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
HARDIN Frontier (U. Cret.) Gas (Shut-in)	32 15	Strat.	Volumetric	State-wide.	Water disposal into Red River. (Order 20-A-70.)
HARDPAN Bow Island (L. Cret.) Swift (Jur.)	(Shut-in) 1 (Shut-in) 1	Structural	Unknown	State-wide.	None
HAY CREEK Mission Canyon (Miss.) (Shut-in)	1 1	Structural	Depletion	State-wide.	Produced water disposed into Dakota formation. (Order 90-A-80.)
Red River (Ord.) (Shut-in)	1 1	Structural	Volumetric Water Drive	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.	
HAYSTACK BUTTE Eagle-Virg. (U. Cret.) Bow Island (L. Cret.) Kootenai (L. Cret.)	7 (Shut-in) 1	Structural- Strat.	Volumetric	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
HIAWATHA Tyler (L. Penn.) (2 sands)	4	Structural- Strat.	Depletion	State-wide.	None
HIBBARD Amsden (Penn.)	1	Unknown	Water Drive	State-wide.	None
HIGH FIVE Tyler (Penn.) (Shut-in)	14 1	Structural- Strat.	Water Drive	State-wide.	Water disposed into Dakota and Stensvad formations (Orders 33-A-77, 70-A-78.) Unitized & Polymen-Waterflood authorized. (Order 110-80.)
HIGHVIEW Madison (Miss.) Oil & Gas (Shut-in)	3 2	Structural	Water Drive	160-acre spacing units, located no closer than 660' from spacing unit boundary. 150' topographic tolerance. (Order 84-76.)	None
HONKER Red River (Ord.)	1	Structural	Water Drive	320-acre specified spaing units; permitted well not to be closer than 660' from the unit boundary. (Order 105-80.)	None
HORSE CREEK Swift (U. Jur.) (Shut-in)	1 1	Structural	Water Drive	State-wide.	None
HOWARD COULEE Tyler (L. Penn.) (Shut-in)	1 2	Structural- Strat. Strat.?	Unknown Unknown	State-wide.	Produced water injected into the Piper formation. (Order 69-A-78.)
IVANHOE DOME Amsden (L. Penn.) (Shut-in)	2	Structural- Strat.	Water Drive	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.
Tyler (L. Penn.) (Shut-in)	7 2	Structural- Strat.	Depletion		Water disposal into Tyler "A". (Order 8-A-78.)
Morrison (U. Jur.) (Shut-in)	1 1				
JIM COULEE Tyler (L. Penn.) (Shut-in)	14 1	Structural Strat.	Depletion Water Drive	Unitized (Order 18-72.) No well closer than 330' from unit boundary.	Waterflood; produced and Third Cat Creek water.

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
KATY LAKE, NORTH Red River (Ord.)	4	Structural	Depletion, Water Drive	State-wide.	None
KEG COULEE Tyler (Penn.) Oil & Gas (Shut-in)	16 7	Strat.	Depletion	40-acre spacing in southwest portion of field except that spacing is waived in unutilized 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; W½ E½ and W½ Sec. 35-11N-30E; NW¼ 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: (Orders 58-76.)	Three waterflood units. (Orders 3-64, 28-66, 10-69, 14-69.) Madison water injected.
KEG COULEE, NORTH Tyler (Penn.)	6	Strat.	Depletion	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
KEITH & EAST KEITH 2nd White Specks (U. Cret.) Gas (Shut-in) Blackleaf (L. Cret.) Gas (Shut-in) Sawtooth (Jur.) Gas (Shut-in)	9 2 12 4 5 2	Structural	Water Drive	State-wide, except unitized portions spaced by (Order 22-62.) Pooling (Order 19-66.)	None
KELLEY Tyler (Penn.)	3	Strat.	Depletion	State-wide. 250' topographic tolerance. (Order 15-67.)	Waterflood using Third Cat Creek water. (Orders 8-69, 51-76.)
KEVIN-SUNBURST Sunburst (L. Cret.) Oil & Swift (U. Cret.) Gas Madison (Miss.) Oil & Gas	33 24 545	Strat. Structure Structure-Strat.	Depletion Depletion	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 produceable well on the same lease or unit. (Order 8-54.)	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.)
KEVIN-SUNBURST NISKU GAS Nisku (Dev.)	4	Structural	Volumetric	640-acre spacing units; location no closer than 990' from spacing unit boundary. (Order 83-76.)	None
KEVIN, SOUTHWEST Bow Island (L. Cret.) Gas (Shut-in) Sunburst (L. Cret.) Gas Swift (U. Jur.) Gas Bow Island-Swift (Shut-in) Bow Island-Sunburst	4 1 7 1 1 1 2	Structure-Strat.	Depletion	320-acre one-half section spacing units lying N-S or E-W 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. (Order 96-79.) and (Order 47-80.)	None
KICKING HORSE Bow Island (L. Cret.) Gas (Shut-in) Sawtooth (Jur.) Gas Sunburst (L. Cret.) (Shut-in)	9 1 1 1	Structural Strat. Strat.	Depletion Depletion Depletion	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
KINCHELOE RANCH Tyler (Penn.)	3	Strat.	Depletion	State-wide.	None

Field. Formation. Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations. Field Rules. and Remarks	Secondary or Water Disposal
KINCHELOE RANCH, WEST Tyler (Penn.)	1	Strat.	Depletion	State-wide.	None
KINYON COULEE Bow Island (L. Cret.)	4	Structural Strat.	Volumetric	State-wide.	None
KRUG CREEK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
LAIRD CREEK Swift (U. Jur.) Oil & Gas	9	Strat.	Depletion	State-wide.	Unitized and waterflood authorized in Swift for oil production. (Order 25-74.) Commenced 2-25-77.
LAKE BASIN Telegraph Creek (U. Cret.) Gas Eagle-Virgelle (U. Cret.) Gas	6 8	Structural- Strat.	Volumetric	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
LAKE BASIN, NORTH Eagle, Frontier (U. Cret.) Gas (Shut-in) Claggett (Shut-in) Eagle-Virg. (U. Cret.) Gas (Shut-in) Judith River (U. Cret.) Gas (Shut-in)	2 1 9 1 3 1 5 1	Structural Structural	Unknown Unknown	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 None
LAKE FRANCIS Bow Island (L. Cret.) Gas	1	Structural	Volumetric	Statewide	None
LAKESIDE Eagle (U. Cret.) (Shut-in)	1	Structural	Volumetric	State-wide.	None
LAMBERT Red River (Ord.)	1	Structural	Depletion Water Drive	State-wide.	None
LANDSLIDE BUTTE Sun River (Miss.)	1	Unknown	Water Drive	State-wide.	None
LAREDO Eagle (U. Cret.) (Shut-in) Judith River (U. Cret.) (Shut-in)	29 1	Structural Strat.	Depletion	320-acre spacing with unit consisting of one-half section lying N-S or E-W at operator's option after administrative approval. Well no closer than 990' from unit boundary. (Order 8-74.)	None
LAUREL Dakota (L. Cret.) (Shut-in)	3 17			10-acre spacing unit. Well location to be in center of spacing unit with 75' topographic tolerance. (Order 15-62.)	Muddy Gas injection into the Dakota approved. (Order 85-79.)
LEARY Muddy (L. Cret.)	5	Structural- Strat.	Depletion	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
LEDGER Bow Island (L. Cret.) Gas	35	Structural	Volumetric	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
LEDGER, NO. Bow Island (L. Cret.) (Shut-in)	1	Structural	Volumetric	State-wide.	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal																																																																						
LEROY Judith River-Eagle (Shut-in)	22 4	Unknown	Depletion	320-acre spacing with unit consisting of one-half section lying N-S or E-W 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)	8	Unknown	Depletion			LISCOM CREEK Shannon (U. Cret.) Gas (Shut-in)	9 1	Structural-Strat.	Depletion	Spacing, one well per 640 acres, with location no closer than 990' from section boundary. (Order 20-72.)	None	LISK CREEK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None	LITTLE BEAVER (Mont. Portion) Red River (Ord.) (Shut-in)	24 1	Structural	Comb. Depletion and Water Drive	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.	LITTLE BEAVER, EAST (Mont. Portion) Red River (Ord.) (Shut-in)	9 4	Structural	Comb. Depletion and Water Drive	Same as for Little Beaver. (Order 42-62.)	Waterflood of the Red River was commenced in April, 1965. (Order 33-64.)	LITTLE CREEK Eagle-Virgelle (U. Cret.) Gas	7	Structural	Volumetric	State-wide.	None	LITTLE ROCK Blackleaf (L. Cret.) Gas	11	Structural Strat.	Depletion	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. (Order 94-79.) and (Order 34-80.)	None	LITTLE WALL CREEK Tyler (Penn.) (Shut-in)	20 1	Strat.	Depletion Water Drive	State-wide.	Produced water injected into Tyler formation (Order 54-A-77), (Order 63-A-78.)	LODGE GRASS Tensleep (Penn.)	1	Structural-Strat.	Water Drive	160-acre spacing units; well locations vary according to areas; 250' topographic tolerance. (Orders 26-64, 26-65.)	None	LOHMAN Eagle (U. Cret.) (Shut-in)	4 1	Unknown	Depletion	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78.)	None	LONE BUTTE Red River (Ord.)	2	Structural	Unknown	320-acre spacing units with well location at least 660' from unit boundary. Not delineated.	None	LONETREE CREEK Red River (Ord.)	9	Structural	Depletion	320-acre spacing, wells 660' from spacing boundary, 2000' between wells. (Order 29-72.)	None	LONG CREEK Madison (Miss.) Charles	1	Structural	Water Drive
LISCOM CREEK Shannon (U. Cret.) Gas (Shut-in)	9 1	Structural-Strat.	Depletion	Spacing, one well per 640 acres, with location no closer than 990' from section boundary. (Order 20-72.)	None																																																																						
LISK CREEK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None																																																																						
LITTLE BEAVER (Mont. Portion) Red River (Ord.) (Shut-in)	24 1	Structural	Comb. Depletion and Water Drive	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.																																																																						
LITTLE BEAVER, EAST (Mont. Portion) Red River (Ord.) (Shut-in)	9 4	Structural	Comb. Depletion and Water Drive	Same as for Little Beaver. (Order 42-62.)	Waterflood of the Red River was commenced in April, 1965. (Order 33-64.)																																																																						
LITTLE CREEK Eagle-Virgelle (U. Cret.) Gas	7	Structural	Volumetric	State-wide.	None																																																																						
LITTLE ROCK Blackleaf (L. Cret.) Gas	11	Structural Strat.	Depletion	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. (Order 94-79.) and (Order 34-80.)	None																																																																						
LITTLE WALL CREEK Tyler (Penn.) (Shut-in)	20 1	Strat.	Depletion Water Drive	State-wide.	Produced water injected into Tyler formation (Order 54-A-77), (Order 63-A-78.)																																																																						
LODGE GRASS Tensleep (Penn.)	1	Structural-Strat.	Water Drive	160-acre spacing units; well locations vary according to areas; 250' topographic tolerance. (Orders 26-64, 26-65.)	None																																																																						
LOHMAN Eagle (U. Cret.) (Shut-in)	4 1	Unknown	Depletion	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78.)	None																																																																						
LONE BUTTE Red River (Ord.)	2	Structural	Unknown	320-acre spacing units with well location at least 660' from unit boundary. Not delineated.	None																																																																						
LONETREE CREEK Red River (Ord.)	9	Structural	Depletion	320-acre spacing, wells 660' from spacing boundary, 2000' between wells. (Order 29-72.)	None																																																																						
LONG CREEK Madison (Miss.) Charles	1	Structural	Water Drive	State-wide spacing.	None																																																																						

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
LONG CREEK, WEST Nisku (Dev.)	2	Structural	Water Drive	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, 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
LOOKOUT BUTTE (Includes Coral Creek Unit) Madison (Miss.)	3	Structural	Water Drive	State-wide spacing.	Water disposal into Madison. (Order 68-62.)
(Shut-in)	5				
Interlake, Red River (Sil.-Ord.)	27	Structural	Comb. Depletion and Water Drive	160-acre spacing; well location in center of SE ¼ of each quarter section with 150' topographic tolerance. (Order 21-62.) Coral Creek Unit not subject to spacing rules. Redelineated per (Order 7-63.)	Waterflood of Silurian-Ordovician approved in 1966. (Order 35-66.) Water from Minnelusa.
(Shut-in)	6				
LOWELL Red River (Ord.)	2	Structural	Water Drive	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
MACKAY DOME Greybull (L. Cret.) Oil	2	Structural	Water Drive	State-wide.	None
MARIAS RIVER Bow Island (L. Cret.)	12	Structural	Depletion	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
MASON LAKE Lakota (L. Cret.)	13	Structural	Water Drive	80-acre spacing units consisting of ½ of a quarter section lying in either E-W or N-S 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.)
MASON LAKE, NORTH Amsden (Penn.)	1	Structural	Water Drive	State-wide.	None
McCABE Ratcliffe (Miss.)	2	Structural-	Depletion	160-acre spacing units; permitted well location to be no closer than 660' from spacing unit boundary nor closer than 1650' from another well producing from the Madison Group. (Order 100-80.)	None
MEDICINE LAKE Red River (Ord.)	3	Structural	Water Drive	320-acre spacing units to comprise of any two contiguous governmental quarter sections in either one or two governmental sections. 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.)	None
(Shut-in)	1				
Winnipegosis (Dev.)	1	Structural	Comb.		
Winnipegosis-Interlake (Dev.-Sil.)	1	Structural	Depletion and Water Drive		
Ratcliffe-Midale (Miss.)	1	Structural	Water Drive		
MELSTONE Tyler (Penn.)	10	Structural-	Depletion	State-wide.	None
(Shut-in)	2	Strat.			

Field. Formation. Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
MIDDLE BUTTE Bow Island (Cret.) Gas (Shut-in)	4 2	Structural	Volumetric	Orders (3-60, 21-75) Amended to delineated field extension and 320-acre spacing units consisting of the E $\frac{1}{2}$ & W $\frac{1}{2}$ of each section; well location no closer than 990' from the section line and 660' from the interior boundary. (Order 47-77.)	None
MINERAL BENCH Duperow (Dev.)	1	Structural	Water Drive	State-wide.	Water disposal into Dakota-Lakota per (Order 18-65.)
MINERS COULEE Sunburst (L. Cret.) Oil (Shut-in)	5 3	Strat.	Depletion	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. Gas: 160-acre spacing with wells 990' from unit boundary. (Order 5-74.)	None
Swift (U. Jur.) Oil (Shut-in)	1	Strat. Strat.?	Depletion Water Drive		
Sunburst-Swift Gas (Shut-in)	2 1	Strat.	Depletion	Sawtooth gas spacing unit. (Order 43-76.) Field redelineation (Order 44-77.) Field enlargement. (Order 4-80.)	
Sawtooth (M. Jur.) Gas	1				
Bow Island (L. Cret.) Gas (Shut-in)	18 1				
MONARCH Mission Canyon (Miss.)	2	Structural-Strat.	Water Drive	80-acre spacing units consisting of east and west half of quarter section. Well location in SW $\frac{1}{4}$ and NE $\frac{1}{4}$ 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.
Interlake, Red River (Sil.-Ord.) (Shut-in)	11 4	Structural-Strat.		160-acre spacing units consisting of a quarter section; well location in center of SW $\frac{1}{4}$ of each quarter section with 175' topographic tolerance. (Orders 12-59, 4-63.)	Waterflood initiated 12-1-73. (Order 23-73.)
MON DAK WEST Madison (Miss.) Dawson Bay (Dev.) (Shut-in)	Total-43 2	Structural	Water Drive	320-acre spacing units for Silurian and Ordovician pools. Units to consist of either (N $\frac{1}{2}$, S $\frac{1}{2}$, E $\frac{1}{2}$ or W $\frac{1}{2}$) 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.) & (111-A-80.)
Winnipegosis (Dev.) Interlake (Sil.)		Structural	Comb. Depletion and		
Stony Mtn. (Ord.) Red River (Ord.)			Water Drive	320-acre spacing units for Madison and Devonian formations. Units to consist of either (N $\frac{1}{2}$, S $\frac{1}{2}$, E $\frac{1}{2}$ or W $\frac{1}{2}$) 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.)	
MOSBY (See Cat Creek)					
MOSSER DOME Greybull (L. Cret.)	13	Structural	Water Drive	Spacing waived. Future development requires administrative approval of the Board. (Order 27-62.)	None
MT. LILLY Madison (Miss.) Gas Sunburst (L. Cret.) Gas	2 1	Structural-Strat.	Water Drive Depletion	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
MUD CREEK Amsden (L. Penn.) (Shut-in)	2	Structural	Water Drive	640-acre spacing unit. Well location anywhere in 160-acre tract in center of each 640-acre well spacing unit. (Order 9-63.)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
MUSTANG Red River (Ord.)	3	Structural	Water Drive	State-wide.	None
NOHLY Red River (Ord.)	2	Structural	Volumetric Water Drive	State-wide.	None
NORTH FORK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
Mission Canyon (Miss.)	1	Structural	Water Drive		
NORTH GILDFORD Sawtooth (M. Jur.)	(Shut-in) 1	Structural	Unknown	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
O'BRIENS COULEE Bow Island (L. Cret.)	(Shut-in) 9 8	Structural	Volumetric	State-wide.	None
OLLIE Red River (Ord.)	1	Structural	Water Drive	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.)	None
OTIS CREEK, SOUTH Red River (Ord.)	1	Structural	Depletion	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.)	None
OTTER CREEK Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
OUTLOOK Duperow (Dev.)	1	Structural-Strat.	Water Drive	State-wide.	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.)
Winnipegosis (Dev.)	(Shut-in) 2	Structural-Strat.	Water Drive	State-wide.	
Silurian-Devonian	(Shut-in) 3	Structural-Strat.	Water Drive	160-acre spacing units; well location in center of either SW¼ or NE¼ of each quarter section, 175' topographic tolerance. (Order 19-59A.)	
OUTLOOK, SOUTH Winnipegosis (Dev.)	1	Structural	Water Drive	160-acre spacing; permitted wells in either SW¼ or NE¼ of quarter section; 175' topographic tolerance. (Order 19-59A.) Commingling permitted. (Order 45-64.)	Produced water disposed into Muddy and Dakota formations.
OUTLOOK WEST Winnipegosis (Dev.)	2	Structural	Water Drive	160-acre spacing units consisting of quarter sections; permitted wells in either SW¼ or NE¼ with a tolerance of 175'. (Order 7-67.)	Produced water disposed into Dakota formation. (Order 42-66.)
OXBOW Red River (Ord.)	1	Structural-Strat.	Water Drive	320-acre spacing consisting of two contiguous governmental quarter sections which may be in one or two governmental sections lying E-W or N-S 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
PALOMINO Nisku (Dev.)	1	Structural	Water Drive	State-wide.	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
PELICAN Red River (Ord.)	1	Structural	Water Drive	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
PENNEL Siluro-Ordovician Oil & Gas (Shut-in)	114 11	Structural	Depletion- Water Drive	80-acre spacing units consisting of east and west half of quarter section; wells located in center of SE¼ and NW¼ 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 SE¼ and NW¼ of each quarter section (80 acres) and in SE¼ 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.)
PETE CREEK Sunburst (L. Cret.) Oil (Shut-in)	1 1	Strat.	Depletion	State-wide.	None
PHANTOM Sunburst (Cret.) Gas Sunburst (L. Cret.) Oil (Shut-in) Swift (U. Jur.) Gas	1 3 1 2	Structural Strat.	Depletion Depletion	*Gas: wells permitted anywhere within the unit but no closer than 990' to the unit boundary. *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.)	None
PHANTOM, WEST Sunburst (L. Cret.) Gas	1	Structural	Depletion	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
PINE Mission Canyon (Miss.) Oil & Gas (Shut-in) Siluro-Ordovician Oil & Gas (Shut-in)	2 2 100 25	Structural Structural	Water Drive Depletion- Water Drive	Spacing and General Rules 213, 218 and 219 are waived within the Pine Unit. 80-acre spacing units outside of unit area; well location in NW¼ and SE¼ of quarter section; 150' topographic tolerance. (Order 37-62) Gas through extraction plant.	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)
PLEVNA Judith River (U. Cret.) Gas (Shut-in) Eagle (U. Cret.) Gas (Shut-in)	26 3 1	Structural	Water Drive	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
POLICE COULEE Bow Island (L. Cret.) (Shut-in)	1 7	Structural	Depletion	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 Order 46-79.)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
PONDERA					
Sun River (Miss.) Oil & Gas (Shut-in)	298 21	Structural-Strat.	Depletion-Water Drive	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 produceable 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).)
PONDERA COULEE					
Sun River (Miss.) (Shut-in)	3	Structural	Water Drive	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance. (Order 5-62.)	None
	2				
POPLAR, EAST					
Madison (Miss.) (Charles & Mission Canyon fms.) (Shut-in)	60 38	Structural	Water Drive	State-wide spacing; field delineated by (Order 7-55.) Re-delineation 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.)
Heath (Tyler) (Penn.)	1	Structural-Strat.	Water Drive		
Nisku (Dev.)	1	Structural	Water Drive		
POPLAR NORTHWEST					
Charles (Miss.) (''B'' & ''C'' or McGowan Zone)	16	Structural	Water Drive	80-acre spacing units consisting of E/2 and W/2 of each quarter section; permitted wells to be located in NW 1/4 or SE 1/4 of each quarter section. (Orders 18-55 & 26-76.) 80-acre spacing units consisting of N/2 and S/2 or E/2 and W/2 of each quarter section; permitted well to be located in NE 1/4 or SW 1/4 of each quarter section on lands added to this field by (Order 124-80).	Produced water disposed into Dakota. (Order 61-A-78.)
PRAIRIE DELL					
Bow Island (L. Cret.)	3	Structural-Strat.	Depletion	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.) by (Order 28-78.) Field enlargement (Order 24-79) and (Order 132-80.)	None
Sunburst (L. Cret.)	1				
Bow Island-Sunburst, Dual	12				
Bow Island, Swift, Dual	3				
Bow Island-Sunburst-Swift	5				
Swift (U. Jur.)	1				
PRAIRIE DELL, WEST					
Swift (U. Cret.) Gas	1	Structural-Strat.	Depletion	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
PRAIRIE ELK					
Charles ''C'' (Miss.)	1	Unknown	Water Drive	State-wide.	None
PRICHARD CREEK					
Sunburst (L. Cret.) Oil & Gas (Shut-in)	4 2	Strat.	Depletion	Well locations subject to administrative approval.	None. Unitized as to Sunburst for water injection. (Order 7-73.)
Swift (U. Jur.) Oil	1	Strat.	Depletion		
PUMPKIN CREEK					
Shannon (U. Cret.) Gas (Shut-in)	8	Strat. Strat.	Depletion	State-wide. Delineated (Order 10-71.)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
PUTNAM					
Interlake (Sil.)	1	Structural	Volumetric Water Drive	State-wide.	None. Gas to McCulloch Gas Processing Corp. Bronson Plant.
Red River (Ord.)	5	Structural	Volumetric Water Drive		
(Shut-in)	1				
PUTNAM, EAST					
Mission Canyon (Miss.)	2	Structural	Water Drive	State-wide.	None
Red River (Ord.)	7	Structural	Volumetric Water Drive		
RABBIT HILLS					
Sawtooth (Jur.)	4	Structural	Volumetric Water Drive	160-acre spacing unit. Well location 660' from spacing unit boundary. (Orders 17-73, 34-74, 33-76.) Re-delineation (Order 47-76.)	Produced water disposed into Eagle formation. (Order 49-A-75.)
(Shut-in)	1	Strat.			
RAGGED POINT					
Tyler (Penn.)	23	Strat.	Depletion	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 of the Tyler "A" sand was commenced in February, 1966, using Third Cat Creek water. (Order 35-65.)
(Shut-in)	3				
RAPELJE					
Claggett, Eagle, Judith River, Virgelle (U. Cret.)	15	Structural-Strat.	Water Drive	160-acre spacing. Wells no closer than 990' to unit boundary. Commingling after administrative approval. (Order 29-73.)	None
	1				
RATTLER BUTTE					
Tyler (Penn.)	2	Strat.	Depletion	State-wide.	None
(Shut-in)	1				
RATTLESNAKE COULEE					
Sunburst (L. Cret.) Oil & Gas	2	Strat.	Depletion	State-wide.	None
Bow Island (L. Cret.) Gas (Shut-in)	1				
RAYMOND					
Nisku (Dev.)	2	Structural-	Depletion	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. (Order 31-80) and (Order 128-80.)	Produced water injected into Dakota formation. (Order 38-A-74.) Produced water injected into Mission Canyon (Order 105-A-79) and (113-A-80.)
Red River (Ord.)	2	Strat.	Water Drive		
Winnipegosis (Dev.)	2				
Duperow (Dev.)	1				
Charles (Miss.)	11				
RAYMOND, NORTHEAST					
Nisku (Dev.)	1	Structural-Strat.	Depletion Water Drive	160-acre spacing units. Wells 660' from spacing unit boundary. (Order 12-74.)	None
REAGAN					
Sun River (Miss.) Oil	51	Structural	Gas Cap-Water Drive	State-wide. (Order 17-54.)	A pressure maintenance project utilizing gas injection was started in 1961. (Order 21-60.)
(Shut-in)	19				Waterflood. (Order 27-72.)
Gas	1				
RED BANK					
Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
Ratcliffe (Miss.)	1	Strat.			
RED CREEK					
Cut Bank (L. Cret.) Oil & Gas	7	Strat.	Depletion	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.
(Shut-in)	2				
Sun River (Miss.) Oil & Gas	13	Structural	Water Drive		
(Shut-in)	6				
RED FOX					
Nisku (Dev.)	1	Structural	Water Drive	Field consists of one 160-acre spacing unit which straddles the section line. (Order 20-67.)	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
RED ROCK Eagle (U. Cret.) Gas	1	Structural-Strat.	Volumetric	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
REDSTONE Winnipegosis (Dev.)	1	Unknown	Water Drive	One well per 160-acre unit, but no closer than 660' from unit boundary.	None
RED WATER Duperow (Dev.)	1	Structural-Strat.	Water Drive	State-wide.	None
REFUGE Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
REPEAT Red River (Ord.)	1	Unknown	Water Drive	State-wide.	None
RESERVE Interlake (Silr.)	1	Structural-Strat.	Water Drive	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.)
Red River (Ord.)	4	Structural-Strat.	Water Drive		
(Shut-in)	1	Strat.			
RICHEY Charles (Miss.)	3	Structural	Water Drive	State-wide. Original 80-acre spacing revoked. (Order 11-73.)	None
RICHEY, SOUTHWEST Interlake, Dawson Bay (Sil.) (Dev.)	4 2	Structural	Depletion	160-acre spacing units; wells no closer than 900' from boundary or spacing unit (Order 25-62.)	A waterflood project in the Interlake and Dawson Bay was started in 1965. (Order 34-65.)
(Shut-in)					
RICHEY, WEST Charles (Miss.)	1	Structural	Water Drive	State-wide.	None
RIDGELAWN Madison (Miss.)	6	Structural	Water Drive	State-wide.	None
RIPRAP COULEE Ratcliffe (Miss.)	4	Structural-Strat.	Depletion	State-wide.	None
ROCKY BOY Eagle-Virgelle (U. Cret.)	7	Structural-Strat.	Water Drive	State-wide.	None
(Shut-in)	3				
Judith River (U. Cret.)	3				
ROCKY POINT Red River (Ord.)	1	Structural	Volumetric Water Drive	320-acre spacing unit well to be located no closer than 660' from exterior boundary (Order 22-79.)	None
ROSCOE DOME Lakota (L. Cret.)	1	Structural	Water Drive	State-wide.	None
ROSEBUD Tyler (L. Penn.)	4	Structural-Strat.	Unknown	State-wide.	None
(Shut-in)	1				
ROUGH RIDGE Eagle (U. Cret.)	(Shut-in) 1	Structural	Volumetric	State-wide.	None
ROYALS Dawson Bay (Dev.)	1	Structural	Depletion	State-wide.	None

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
RUDYARD Sawtooth (M. Jur.) Gas Oil	6 2	Structural	Volumetric	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
RUNAWAY Madison (Miss.)	1	Structural	Water Drive	State-wide.	None
RUSH MOUNTAIN Red River (Ord.)	1	Structural	Volumetric- Water Drive	State-wide. Dual zone completion in discovery well.	Excess water injected into Dakota sand. (Order 5-A-71.)
SAGE CREEK Greenhorn (Cret.) Gas (Shut-in) Blackleaf (L. Cret.) Gas (Shut-in)	1 14 2	Strat.	Depletion	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.)	None
SALT LAKE Bakken-Nisku (Miss.-Dev.)	3	Structural	Water Drive	State-wide.	Produced water disposed into Nesson (Madison) formation. (Order 61-A-80.)
SAND CREEK Interlake, Red River (Sil.) (Ord.) (Shut-in)	3 3	Structural	Water Drive	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.)
SANDWICH Sunburst (L. Cret.) Gas Swift (U. Jur.) Gas (Shut-in)	1 1	Strat.	Depletion	320-acre spacing unit. Well: located no closer than 990' to spacing unit boundaries. (Order 17-77.)	None
SAWTOOTH MOUNTAIN Judith River (U. Cret.) Eagle (U. Cret.) (Shut-in)	8 24 4	Structural- Strat.	Volumetric Water Drive	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
SCOBAY Madison (Miss.)	1	Structural	Water Drive	State-wide.	None
SECOND CREEK Red River (Ord.)	4	Structural	Volumetric Water Drive	303.1-acre spacing unit; one well field. (Order 34-78.)	None
SECOND CREEK-DUPEROW Duperow (Dev.)	1	Structural	Water Drive	160-acre spacing units; well locations for each unit to be as specified by (Order 119-80.)	
SHEEPHERDER Tyler (L. Penn.)	3	Structural- Strat.	Unknown	State-wide.	None
SHELBY AREA Sunburst (L. Cret.) Gas (Shut-in) Bow Island (L. Cret.) Gas	33 17 5	Structural- Strat.	Depletion	State-wide. Field outline not delineated. A few small Swift sand wells commingled with Sunburst.	None
SHERARD Eagle (U. Cret.) Gas (Shut-in) Judith River (U. Cret.) Dual	23 20 1	Structural- Strat.	Volumetric Water Drive	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	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
SHERARD WEST					
Eagle, Virgelle (U. Cret.)	1	Structural-Strat.	Volumetric Water Drive	160-acre spacing units; location no closer than 660' to unit boundary. (Order 90-76.)	None
(Shut-in)	1				
SHOTGUN CREEK, NORTH					
Guntton (Ord.)	1	Structural	Water Drive	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.)					
SIDNEY					
Mission Canyon (Miss.)	21	Structural	Water Drive	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.)
(Shut-in)	1				
SINGLETREE					
Red River (Ord.)	1	Structural	Volumetric	State-wide.	Produced water disposed into Dakota Formation. (Order 59-A-80.)
SIoux PASS					
Interlake (Sil.)	(Dual) 1	Structural	Volumetric Water Drive	320-acre spacing units consisting of two adjacent governmental quarter sections lying N-S or E-W 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.)	Excess water injected into Dakota formation. (Order 15-A-75.)
Red River (Ord.)	6				
Mission Canyon	1				
SIoux PASS, EAST					
Red River (Ord.)	1	Structural-Strat.	Water Drive	State-wide.	None
SIoux PASS, MIDDLE					
Red River (Ord.)	6	Structural	Water Drive	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.)	None
SIoux PASS, NORTH					
Interlake (Sil.) Red River (Ord.)	1	Structural	Unknown	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.)	Produced water injected into Dakota-Lakota formations. (Order 34-A-75.)
Dual					
Winnipegosis (Dev.)					
Nisku (Dev.) Red River (Ord.)	1		Water Drive		
Red River (Ord.)	10				
(Shut-in)	1				
Madison (Miss.)	1				
(Shut-in)	1				
SIoux PASS, NORTH-DUPEROW					
Duperow (Dev.)	1	Structural	Water Drive	320-acre spacing unit consisting of NE ¼ Sec. 11 and NW ¼ Sec. 12, T 26 N, R 57 E. (Order 107-80.)	None

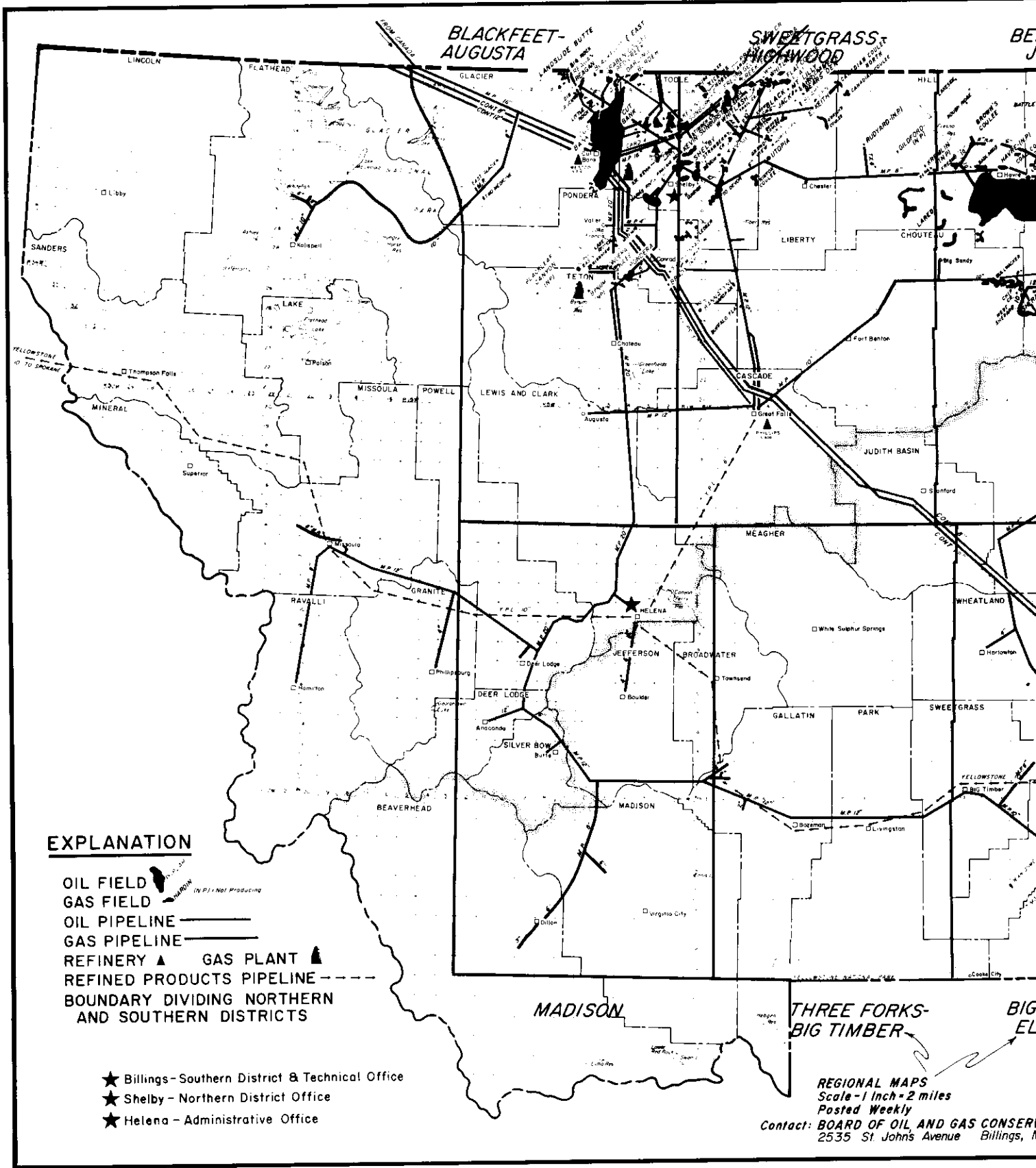
Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
SNOOSE COULEE Bow Island (L. Cret.) Gas (Shut-in)	5 1	Structural-Strat.	Volumetric	640-acre spacing units; location no closer than 990' from spacing unit boundary. Bow Island and shallower Formations. (Order 18-18-77.)	None
SNOW COULEE Sunburst (L. Cret.) Gas (Shut-in)	1	Strat.	Depletion	Spacing units. E½ section 33 and W½ section 34, 36N-4E designated as spacing units. (Order 78-76.)	None
SNOWDEN Mission Canyon (Miss.)	1	Structural	Water Drive	Statewide.	None
SNYDER Tensleep (Penn.) (Shut-in)	3 1	Structural	Water Drive	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance. (Order 45-62.)	None
SOAP CREEK Tensleep, Amsden, Madison (Penn.) (Penn.) (Miss.) (Shut-in)	28 1	Structural	Water Drive	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
SOAP CREEK, EAST Tensleep (Penn.)	3	Structural	Water Drive	State-wide.	None
SOBERUP COULEE Bow Island (L. Cret.) Gas (Shut-in)	2	Structural	Water Drive	320-acre spacing units; well location to be no closer than 660' from the unit boundary (Order 25-79.)	None
SOUTH FORK Red River (Ord.)	3	Structural	Water Drive	State-wide.	None
SPRING LAKE Nisku (Dev.) (Shut-in) Red River (Ord.)	1 2	Structural Structural	Depletion Depletion	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
STAMPEDE Red River (Ord.)	1	Structural	Depletion	State-wide.	None
STRAWBERRY CREEK Bow Island-Blackleaf (L. Cret.) Gas (Shut-in)	2 2	Structural-Strat.	Volumetric Water Drive	State-wide.	None
STENSVAÐ Tyler (Penn.) (Shut-in)	4 11	Strat.	Depletion	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.)	A waterflood operation has been in progress since 1963, using Madison water. (Orders 48-67, 9-67.) Excess produced water disposed into Madison (Order 70-A-76.)
SUMATRA Tyler (Penn.) Oil & Gas (Shut-in)	96 23	Strat.	Depletion	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. (Order 99-79.) and (Order 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.)
SUNNYHILL Red River (Ord.) Oil & Gas Madison (Miss.)	3 1	Structural Structural	Volumetric Water Drive Water Drive	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)

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
SWANSON CREEK Phillips (U. Cret.) Gas (Shut-in)	14 24	Strat.	Depletion	320-acre spacing units; (Order 36-75) amended to enlarge field and provide that spacing units may run N-S or E-W at operator's option with permitted wells to be no closer than 990' to section or quarter section line. (Order 11-78.) Field boundaries extended. (Order 32-78.) Field extension (Order 92-79.) Field extension (Order 66-80.)	None
THIRTY MILE Eagle (U. Cret.) (Shut-in)	1	Structural	Unknown	State-wide.	None
THREE MILE Eagle (U. Cret.) (Shut-in)	1 2	Structural	Volumetric Water Drive	State-wide.	None
TIBER Bow Island (L. Cret.) Gas	1	Strat.	Volumetric	State-wide.	None
TIBER, EAST Bow Island (L. Cret.) Gas(Shut-in)	1	Strat.	Volumetric	State-wide.	None
TIBER, SOUTH Colorado (Cret.) Gas	1	Strat.	Unknown	State-wide.	None
TIGER RIDGE Judith River (U. Cret.) Gas (Shut-in)	5 2	Structural- Strat.	Volumetric Water Drive	Field delineated; (Orders 17-67, 23-68) re-delineated and established. State-wide spacing. (Order 10-70.)	Excess produced water injected into Eagle formation. (Orders 19-A-73, 46-A-75.) (Order 19-A-73) Amended by (Order 60-A-78.)
Eagle (U. Cret.) Gas (Shut-in)	219 48	Structural Strat.	Volumetric Water Drive	State-wide 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, 32N-16E (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, 32N-14E (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; NW¼ & NE¼ Section 30, T-31N, R-17E 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, 31N-17E & Section 4, 30N-17E (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, T 32 N, R 18 E. (Order 54-80.)	
TIGER RIDGE NORTH Eagle (U. Cret.)	1	Structural	Volumetric Water Drive	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

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
TIGER RIDGE, SOUTH Eagle (U. Cret.)	1	Structural	Volumetric Water Drive	State-wide.	None
TIMBER CREEK Sunburst (L. Cret.) Gas (Shut-in)	2	Strat.	Depletion	320-acre spacing consisting of two adjacent governmental quarter sections lying N-S or E-W at operator's option. Permitted well no closer than 660' from spacing boundary and 990' from field boundary. (Order 24-75.)	None
TIMBER CREEK, WEST Sunburst (L. Cret.) Gas (Shut-in)	1	Strat.	Depletion	640-acre one well spacing unit. (Order 91-76.)	None
TIPPY BUTTES Tyler (Penn.)	1	Strat.	Depletion	State-wide.	None
TRAIL CREEK Sunburst (L. Cret.) Gas (Shut-in) Bow Island (L. Cret.) Gas (Shut-in)	2 2	Structural-Strat.	Water Drive Volumetric	One well per 320 acres consisting of S½ and N½ of each governmental section but not closer than 990' from spacing boundary. (Orders 33-70, 28-76.) Field enlargements (Order 135-80.)	None
TULE CREEK Nisku (Dev.) (Shut-in)	5 2	Structural	Water Drive	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.)
TULE CREEK, EAST Nisku (Dev.) (Shut-in)	1 1	Structural	Water Drive	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.)
TULE CREEK, SOUTH Nisku (Dev.)	3	Structural	Water Drive	160-acre spacing units with permitted well anywhere within a 1320' square in center of each unit.	Authority given to dispose of produced water into Dakota. (Order 44-64.) into Judith River formation. (Order 29-67.)
TWO FORKS Judith River (U. Cret.) Gas Eagle (U. Cret.) Gas	1 1	Structural Strat.	Volumetric	State-wide	None
TWO MEDICINE CREEK Sun River (Miss.)	1	Structural Strat.	Volumetric Water Drive	State-wide.	Produced water disposed into Cut Bank formation (Order 89-A-80.)
TWO WATERS Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
UTOPIA, GAS Sawtooth (Jur.) Gas (Shut-in)	4 3	Structural	Depletion Water Drive	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
UTOPIA SWIFT Swift (U. Jur.) Oil (Shut-in)	12 1	Structural	Water Drive	40-acre spacing units; location to be in center of quarter-quarter section with no more than 100' topographic tolerance. (Order 9-78.)	None
VAUX Red River (Ord.) (Shut-in) Mission Canyon (Miss.) (Shut-in) Interlake (Sil.)	6 1 9 1 1	Structural	Water Drive	State-wide.	Produced water injected into the Dakota formation. (Order 44-A-79.)

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
VIDA					
Interlake (Sil.)	1	Structural	Water Drive	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.)
VIKING					
Dawson Bay (Dev.) Winnipegosis	(Shut-in) 1	Structural-Strat.	Water Drive	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
VOLT					
Nisku (Dev.)	(Shut-in) 5 1	Structural	Water Drive	160-acre spacing units with permitted well anywhere within a 1320' square in center of each unit. (Orders 27-64, 6-65, 32-65.) State-wide.	Excess produced water is disposed into Judith River. (Orders 3-65, 37-A-74.)
Charles "C" (Miss.)	1	Structural	Water Drive		
WAGON BOX					
Tyler (Penn.)	(Shut-in) 1 1	Structural-Strat.	Unknown	State-wide.	None
WEED CREEK					
Amsden (Penn.)	1	Structural	Water Drive	State-wide.	None
WELDON					
Kibbey (Miss.)	(Shut-in) 2 2	Structural	Partial Water Drive	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 and Charles formations. (Orders 31-65, 47-65, 37-66, 16-67.)
WEST BUTTE					
Sunburst (L. Cret.) Oil	(Shut-in) 3 1	Structural-Strat.	Depletion	State-wide, except W 1/2 Section 16 is considered a single spacing unit.	None
Bow Island (L. Cret.) Gas	(Shut-in) 1				
Sawtooth (Jur.) Gas	(Shut-in) 3	Structural	Water Drive	Sawtooth-Madison gas commingled, unitized (Order 5-72.) No well closer than 330' from unit boundary.	
Madison (Miss.) Gas	(Shut-in) 1				
WEST BUTTE SHALLOW GAS					
Bow Island (L. Cret.)	(Shut-in) 1	Structural-Strat.	Volumetric	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' feet from the spacing unit boundaries. (Order 39-77.)	None
WHITLASH					
Bow Island, Kootenai, Swift (Cret.) (Jur.)	Oil (Shut-in) 71 18 43 4 1	Structural-Strat.	Volumetric	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. General Rules 207, 211, 219, 221, 223, and 224 suspended. (Orders 16-54, 27-70.)	None
Madison (Miss.) Gas	(Shut-in) 4 1				
WHITLASH, WEST					
Sunburst, Swift (Cret.) (Jur.)	Oil (Shut-in) 2 12	Structural-Strat.	Volumetric	Gas: 160-acre spacing units consisting of quarter sections; well location anywhere within a 660' square in center of spacing unit.	None
Sawtooth (Jur.)	(Shut-in) 1			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)	

Field, Formation, Age	No. Prod. Wells	Type of Trap	Probable Drive Mechanism	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
WILLIAMS Bow Island (L. Cret.) Gas	13	Structural	Volumetric	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
WILLOW CREEK, NORTH Tyler (Penn.) Oil (Shut-in)	2 1	Structural-Strat.	Depletion Water Drive	State-wide.	Pilotflood. (Order 19-72.)
WILLOW RIDGE Bow Island (L. Cret.) Gas (Shut-in) Burwash (Cret.) Oil	11 3 3	Structural-Strat.	Volumetric	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
WILLOW RIDGE, SOUTH Bow Island (L. Cret.) Gas	2	Structural Strat.	Volumetric	State-wide.	None
WILLS CREEK, SOUTH Interlake (Sil.)	3	Structural	Partial Water Drive	160-acre spacing units. Well location in center of SE $\frac{1}{4}$ of each unit with 175' topographic tolerance. (Orders 5-64, 30-66.)	Waterflood initiated 12-1-73. (Order 23-73.)
WINNETT JUNCTION Tyler (Penn.) (Shut-in)	3 3	Strat.	Depletion Water Drive	20-acre spacing units. Units to be designated as W $\frac{1}{2}$ and E $\frac{1}{2}$ 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.)
WOLF SPRINGS Amsden (Penn.) (Shut-in)	4 1	Structural	Water Drive	80-acre spacing units consisting of N $\frac{1}{2}$ and S $\frac{1}{2}$ of each quarter section. Well location in center of NW $\frac{1}{4}$ and SE $\frac{1}{4}$ of each quarter section with 75' topographic tolerance. (Orders 4-56, 9-59.) Field Area reduction (Order 92-76.)	None
WOODROW Interlake (Sil.) Red River (Ord.)	1 1	Structural	Water Drive	80-acre spacing units consisting of any two adjacent quarter-quarter sections; well locations in center of NE $\frac{1}{4}$ and SW $\frac{1}{4}$ of each quarter section with 200' topographic tolerance. (Order 47-62.)	Produced water injected into Dakota. (Order 48-62.)
WRANGLER Red River (Ord.)	2	Structural	Water Drive	State-wide.	None
WRANGLER, NORTH Red River (Ord.)	1	Structural	Water Drive	State-wide.	None
WRIGHT CREEK Muddy (L. Cret.) (Shut-in)	3 1	Structural-Strat.	Depletion Water Drive	80-acre spacing consisting of N $\frac{1}{2}$ and S $\frac{1}{2}$ of quarter section with locations in NW $\frac{1}{4}$ and SE $\frac{1}{4}$ 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.)
XENA Judith River (U. Cret.) Gas	1	Structural Strat.	Volumetric Water Drive	State-wide.	None

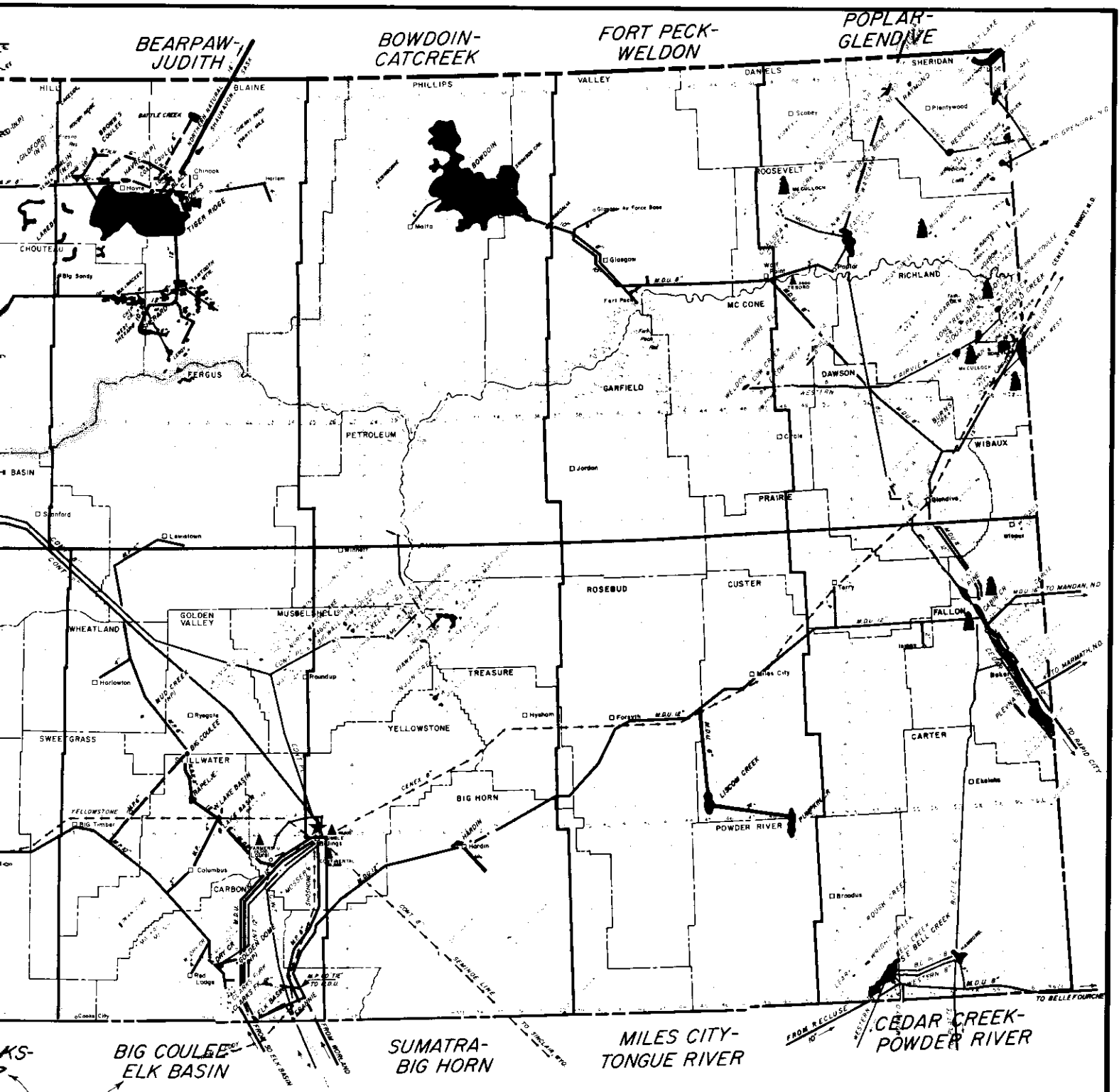


EXPLANATION

- OIL FIELD
- GAS FIELD
- 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, MONT.



**BEARPAW-
JUDITH**

**BOWDOIN-
CATCREEK**

**FORT PECK-
WELDON**

**POPLAR-
GLENDAVE**

**BIG COULEE-
ELK BASIN**

**SUMATRA-
BIG HORN**

**MILES CITY-
TONGUE RIVER**

**CEDAR CREEK-
POWDER RIVER**

**MONTANA
OIL AND GAS FIELDS, PIPELINES AND REFINERIES
1980**

MAPS
= 2 miles
OIL AND GAS CONSERVATION
1000 Bankers Avenue Billings, Mont. 59102

BOARD OF OIL AND GAS CONSERVATION

Sw (%)	O.O.I.P. (BBL/ACRE)	PRODUCTIVE AREA		RECOVERY FACTOR (%)		ULTIMATE RECOVERY (M BBL.)			CUMULATIVE PRODUCTION 1-1-81 (M BBL.)	RESERVES 1-1-81 (M BBL.)	1980 PRODUCTION		ULTIMATE RECOVERY		LINE NO.
		1-1-80 (ACRES)	O.O.I.P. (M. BBL.)	PRIMARY	SECONDARY	PRIMARY	SECONDARY	TOTAL			(BBL.)	(BOOP)	(BBL./ ACRE)	(BBL./ ACRE/FT.)	
30	20.540	640	13.140	31	—	4,070	—	4,070	3,136	934	52,669	144	6,360	199	165
—	—	—	—	—	—	350	—	350	60	290	50,782	139	—	—	166
30	13.430	320	4,300	12	—	510	—	510	443	67	8,163	22	1,590	47	167
—	—	320	—	—	—	150	—	150	43	107	24,921	68	469	156	168
30	13.310	160	2,130	26	—	560	—	560	475	85	9,991	27	3,500	140	169
30	4.510	1,280	5,770	17	—	1,000	—	1,000	809	191	45,916	125	781	43	170
30	9.050	1,440	13,030	15	—	2,000	—	2,000	1,923	77	7,910	22	1,489	60	171
30	9.630	1,160	11,170	15	2	1,700	250	1,950	1,872	78	7,639	21	1,681	62	172
50	5.330	640	3,410	23	—	800	—	800	216	584	137,630	376	1,250	23	173
45	6.430	480	3,090	10	—	320	—	320	143	177	25,074	69	667	48	174
47	6.080	320	1,950	10	—	200	—	200	61	139	28,383	78	630	33	175
48	14.580	200	2,920	15	—	430	—	430	351	79	17,734	48	2,150	67	176
33	4.490	320	1,440	42	—	600	—	600	374	226	16,607	45	1,875	134	177
35	8.510	480	4,080	11	—	430	—	430	303	127	18,672	51	896	39	178
40	8.950	1,040	9,310	25	—	2,300	—	2,300	2,219	81	10,783	29	2,211	88	179
40	6.520	1,600	10,430	11	—	1,100	—	1,100	823	277	66,061	180	687	23	180
50	7.030	320	2,250	4	—	100	—	100	72	18	8,824	24	313	9	181
50	7.160	7,040	50,420	12	—	6,300	—	6,300	1,510	4,790	318,447	870	895	15	182
—	—	320	—	—	—	250	—	250	55	195	18,919	51	781	—	183
35	10.680	2,560	27,340	7	—	2,050	—	2,050	2,090	960	153,789	420	801	20	184
60	2.300	320	740	14	—	100	—	100	42	158	6,666	18	313	31	185
25	11.300	1,920	21,700	6	—	1,300	—	1,300	616	684	149,131	407	677	40	186
40	15.360	4,160	63,900	6	—	3,830	—	3,830	1,272	2,558	255,725	699	920	21	187
35	21,430	120	2,570	18	—	450	—	450	427	23	4,297	12	3,750	150	188
35	14,410	380	5,470	50	—	2,720	—	2,720	2,124	596	59,975	164	7,157	358	189
35	11,120	120	1,330	13	—	170	—	170	48	122	11,247	31	1,416	94	190
—	—	960	—	—	—	1,300	—	1,300	502	798	105,067	287	1,354	33	191
30	2,930	480	1,410	60	—	840	—	840	702	138	21,677	59	1,750	194	192
20	18.570	1,200	22,280	31	14	7,000	3,130	10,130	10,021	109	6,662	18	8,441	338	193
35	24,780	5,520	136,780	25	—	34,000	12,000	46,000	38,117	7,883	1,042,058	2,847	8,333	278	194
50	11,950	960	11,470	3	—	310	—	310	75	235	25,349	69	323	13	195
—	—	320	—	—	—	200	—	200	29	171	13,988	38	625	52	196
30	14,440	1,280	18,490	47	—	8,660	—	8,660	7,378	1,282	114,646	313	6,766	271	197
30	15,350	320	4,910	41	—	2,020	—	2,020	1,959	61	8,245	23	6,313	210	198
30	3,720	480	1,790	40	—	720	—	720	670	50	10,403	28	1,500	188	199
40	11,010	680	7,490	15	—	1,100	—	1,100	169	931	42,450	116	1,618	95	200
43	5,900	1,440	8,500	14	—	1,200	—	1,200	151	1,049	67,440	184	833	21	201
45	8,960	2,240	20,070	10	—	2,030	—	2,030	598	1,442	173,340	474	906	38	202
30	10,860	800	8,690	36	—	3,110	—	3,110	2,267	843	77,395	211	3,888	278	203
23	5,360	800	4,290	15	—	630	—	630	581	49	4,724	13	788	66	204
35	11,180	1,560	17,450	40	—	7,050	—	7,050	6,988	62	12,168	33	4,520	323	205
23	13,030	160	2,090	38	—	490	—	490	225	265	17,437	48	3,063	306	206
20	13,180	1,950	25,700	24	—	6,080	—	6,080	4,385	1,695	158,399	433	3,118	208	207
54	4,640	160	740	36	7	250	50	300	271	29	9,146	25	1,875	156	208
35	9,080	480	4,360	25	5	1,090	220	1,310	864	446	36,548	100	2,730	227	209
30	10,660	240	2,560	14	34	350	880	1,230	501	729	77,678	212	5,125	427	210
23	3,680	2,080	7,660	61	—	4,650	—	4,650	4,531	119	15,420	42	2,336	212	211
35	13,580	560	7,600	15	—	1,120	—	1,120	1,031	89	15,194	42	2,000	80	212
—	—	640	—	—	—	400	—	400	81	319	59,880	164	625	104	213
—	—	320	—	—	—	200	—	200	28	172	23,351	64	625	20	214
48	4,770	400	1,910	14	—	270	—	270	214	56	9,363	26	675	135	215
—	—	—	—	—	—	—	—	—	—	2,669	338,866	926	—	—	216
—	—	—	—	—	—	—	—	—	—	248,000	29,583,804	80,830	—	—	217

GENERALIZED

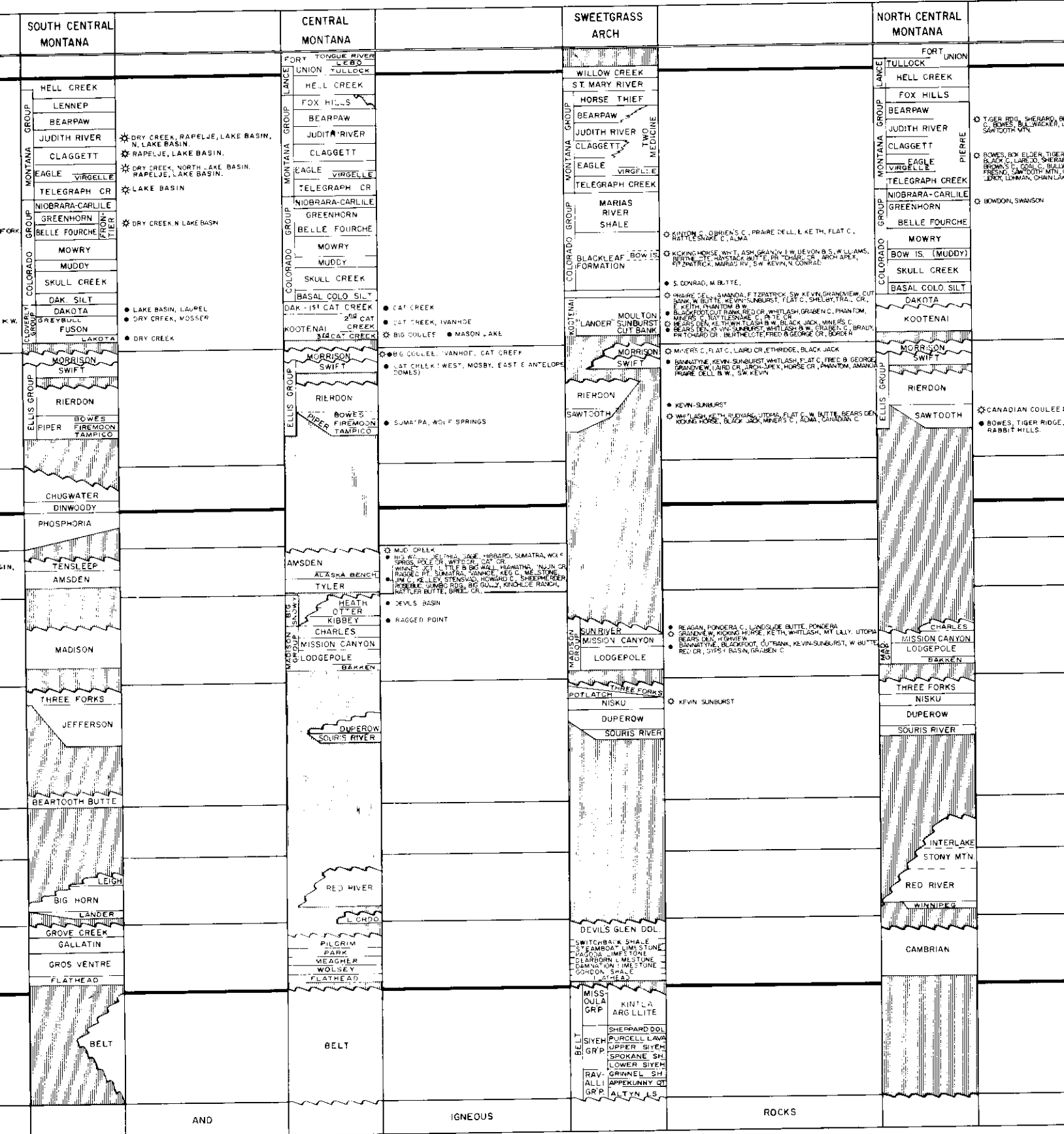
MONTANA BOARD OF OIL AND GAS CONSERVATION - 1980

ERA	PERIOD	SOUTHWESTERN MONTANA	CRAZY MOUNTAIN BASIN	BIG HORN BASIN		SOUTH CENTRAL MONTANA		
CENOZOIC	TERTIARY	BEAVERHEAD	TONGUE RIVER LEBO	FORT UNION				
			TULLOCK	LANCE				
MESOZOIC	CRETACEOUS	UPPER	MONTANA GROUP	HELL CR.	MEETEETSE		HELL CREEK	
				LENNEP			LENNEP	
				BEARPAW			BEARPAW	
				JUDITH RIVER	MESA VERDE		JUDITH RIVER	★ DRY CREEK, RAPELJE, LAKE BASIN, N. LAKE BASIN.
				CLAGGETT			CLAGGETT	★ RAPELJE, LAKE BASIN.
	LOWER	MONTANA-COLORADO GROUPS	MONTANA-SHALE	EAGLE	CODY SHALE		EAGLE	★ DRY CREEK, NORTH LAKE BASIN, RAPELJE, LAKE BASIN.
				VIRGELLE			VIRGELLE	
				TELEGRAPH CR.	FRONTIER		TELEGRAPH CR.	★ LAKE BASIN
				NIOBARARA-CARLILE			NIOBARARA-CARLILE	
				FRONTIER			FRONTIER	
JURASSIC	UPPER	MONTANA-SHALE	MOWRY			MOWRY	● ELK BASIN, NW ELK BASIN, CLARKS FORK.	
			MUDDY	MUDDY		MUDDY		
			SKULL CR.	SKULL CREEK		SKULL CREEK		
			DAK. SILT	DAK. SILT		DAK. SILT		
			KOOTENAI	KOOTENAI		KOOTENAI		
	MIDDLE	ELLIS GROUP	ELLIS GROUP	MORRISON SWIFT	MORRISON		MORRISON SWIFT	
				RIERDON	RIERDON		RIERDON	
				SAWTOOTH	PIPER	GYPSUM SPRING	PIPER	
LOWER ?	ELLIS GROUP	ELLIS GROUP	THAYNES	CHUGWATER		CHUGWATER		
			WOODSIDE	DINWOODY		DINWOODY		
PALEOZOIC	PERMIAN	ELLIS GROUP	PHOSPHORIA	PHOSPHORIA		PHOSPHORIA		
	PENNSYLVANIAN	ELLIS GROUP	ELLIS GROUP	QUADRANT	TENSLEEP		TENSLEEP	● ELK BASIN, NW ELK BASIN.
				AMSDEN	AMSDEN		AMSDEN	● ELK BASIN, FRANNIE, NW ELK BASIN, SNYDER.
	MISSISSIPPIAN	ELLIS GROUP	ELLIS GROUP	MADISON	MADISON		MADISON	● ELK BASIN
	DEVONIAN	ELLIS GROUP	ELLIS GROUP	SAPPINGTON	SAPPINGTON		SAPPINGTON	
				THREE FORKS	THREE FORKS		THREE FORKS	● ELK BASIN
				JEFFERSON	NISKU	DUPEROW	JEFFERSON	
SILURIAN	ELLIS GROUP	ELLIS GROUP	MAYWOOD	SCOURIS RIVER				
ORDOVICIAN	ELLIS GROUP	ELLIS GROUP						
CAMBRIAN	ELLIS GROUP	ELLIS GROUP	BIG HORN	BIG HORN		BIG HORN	● ELK BASIN	
			RED LION	GROVE CREEK	GROVE CREEK	GROVE CREEK		
			PILGRIM PARK	SNOWY RANGE	GALLATIN	GALLATIN		
			MEAGHER	MEAGHER	GROS VENTRE	GROS VENTRE		
PROTEROZOIC	PRE-CAMBRIAN	ELLIS GROUP	SILVER HILL	WOLSEY				
			FLATHEAD	FLATHEAD		FLATHEAD		
ARCHEOZOIC			BELT	BELT		BELT		
					METAMORPHIC		AND	

GENERALIZED STRATIGRAPHIC CORRELATION CHART

SHOWING PRODUCTIVE FORMATIONS IN MONTANA OIL AND GAS FIELDS *

● OIL ◊ GAS



RELATION CHART

AS FIELDS *

CHARLES G. MAIO, GEOLOGIST

JUDSON D SWEET, PETROLEUM ENGINEER

NORTH CENTRAL MONTANA			NORTH POWDER RIVER BASIN			WILLISTON BASIN			PERIOD	ERA
			FORT TONGUE RIVER UNION LEAD TULLOCK			FORT TONGUE RIVER UNION LUDLOW TULLOCK				
			HELL CREEK			HELL CREEK				
			FOX HILLS			FOX HILLS				
			BEARPAW			BEARPAW				
			JUDITH RIVER			JUDITH RIVER			UPPER	
			CLAGGETT			CLAGGETT				
			EAGLE VIRGELLE			EAGLE				
			TELEGRAPH CREEK			TELEGRAPH CREEK				
			NIOBRARA-CARLILE GREENHORN			NIOBRARA-CARLILE GREENHORN			CRETACEOUS	
			BELLE FOURCHE			BELLE FOURCHE				
			MOWRY			MOWRY				
			BOW IS (MUDDY)			MUDDY (NEWCASTLE)			LOWER	
			SKULL CREEK			SKULL CREEK				
			BASAL COLO SILT			BASAL COLO SILT				
			DAKOTA			DAKOTA				
			KOOTENAI			FUSON (KOOTENAI)				MESOZOIC
						LAKOTA				
			MORRISON			MORRISON			UPPER	
			SWIFT			SWIFT				
			RIERDON			RIERDON			JURASSIC	
			SAWTOOTH			PIPER			MIDDLE	
						BOWES FIREMOON TAYMICO				
						MESSON			LOWER	
						SPEARFISH			LOWER ?	
						SAUDE				
						MINNEKAHTA				PERMIAN
						OPECHE				
						TENSLEEP				
						MINNELUSA				PENNSYLVANIAN
						AMSDEN				
						CHARLES				
						MISSION CANYON				MISSISSIPPIAN
						LODGEPOLE				
						BAKKEN				
						THREE FORKS				
						BIROBEAR (NISKU)			UPPER	
						DUPEROW				
						SOURIS RIVER			DEVONIAN	PALAEZOIC
						DAWSON BAY				
						PRAIRIE EVAP.			MIDDLE	
						WINNEGOSIS				
						SHERN			LOWER	
						INTERLAKE				SILURIAN
						STONY MTN.				
						RED RIVER				ORDOVICIAN
						BIG HORN				
						WINNEPEG			LOWER	
						LOWER ORDOVIGIAN GROVE CREEK			UPPER	
						GALLATIN				CAMBRIAN
						GROS VENTRE				
						DEADWOOD				
										PROTEROZOIC
										ARCHEOZOIC

* SOME FIELDS SHOWN ARE DEPLETED OR NO LONGER PRODUCTIVE.