



MONTANA

OIL^{and} GAS

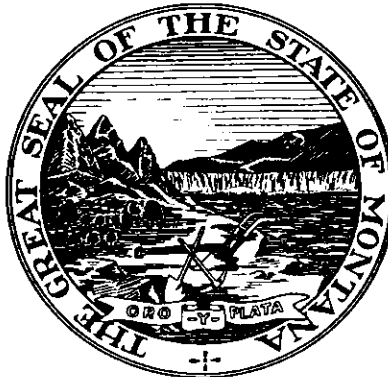
ANNUAL REVIEW 1994

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DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Marc Racicot, Governor



ANNUAL REVIEW FOR THE YEAR 1994

Relating to

OIL AND GAS

Volume 38

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August, 1995

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Annual Review for the Year 1994 Volume 38 ACTIVITY REVIEW

Montana produced 16.5 million barrels of oil in 1994, which is approximately a 5 percent decrease from the previous year's production. Gas production decreased from 55.7 million MCF in 1993 to 51.8 million MCF in 1994. Well-drilling activities increased from 182 completions in 1993 to 236 in 1994. There were 97 new gas wells completed and 58 new oil wells. Operators completed 24 new horizontal wells and performed horizontal re-completions of 4 existing wells.

Geophysical activities increased again during 1994. Nine geophysical contractors were active during the year, and 39 seismic projects were completed. Most of these activities involved 3-D prospecting methods. The Williston Basin received most of the seismic activity.

In 1994 the Board of Oil and Gas Conservation adopted new rules to implement its responsibilities under the tax incentive legislation passed in the November 1993 special legislative session. Designed to encourage enhanced recovery projects and

horizontal drilling, the bill extends the 12-month reduced tax rate on all new wells to 18 months for new horizontal wells; it also lowers tax rates for new secondary and tertiary projects. The incremental production above the established decline rate in newly expanded enhanced recovery projects and in horizontal re-completions of existing wells is also taxed at the incentive rate. Permits for horizontal wells increased from 22 in 1993 to 43 in 1994. The board approved the expansion of 14 existing secondary recovery projects, thereby qualifying the incremental increase in production for the lower tax rate.

The board's staff issued 334 permits to drill during the year, up from the 216 permits in the previous year. Environmental assessments for all operations on private and state-owned lands were prepared by staff prior to permit issuance. The board issued 110 orders during the year. Most of these authorized increased well density to accommodate infill drilling programs, delineate and establish rules for new fields, and allowed exceptions to existing field rules.

1994

SUMMARY OF YEAR ACTIVITIES

OIL

BBLS	BBLS/DAY	
Oil Produced.....	16,534,961	45,301
Oil Imported From:		
Canada	37,383,450	
Wyoming	<u>11,864,539</u>	
Total	49,247,989	134,926
Oil Exported.....	13,000,000	35,600

GAS

	MCF	MCF/DAY
Gas Withdrawals:		
Natural	45,052,070	
Associated	<u>6,735,830</u>	
Total	51,787,900	141,885
Gas Imported From:		
Canada	6,642,931	
North Dakota	12,929,924	
Wyoming	<u>7,478,271</u>	
Total	27,051,126	74,113
Gas Exported To:		
North Dakota	13,613,696	
South Dakota	6,438,575	
Wyoming	7,775,096	
Midwest	<u>17,047,363</u>	
Total	44,874,730	122,944

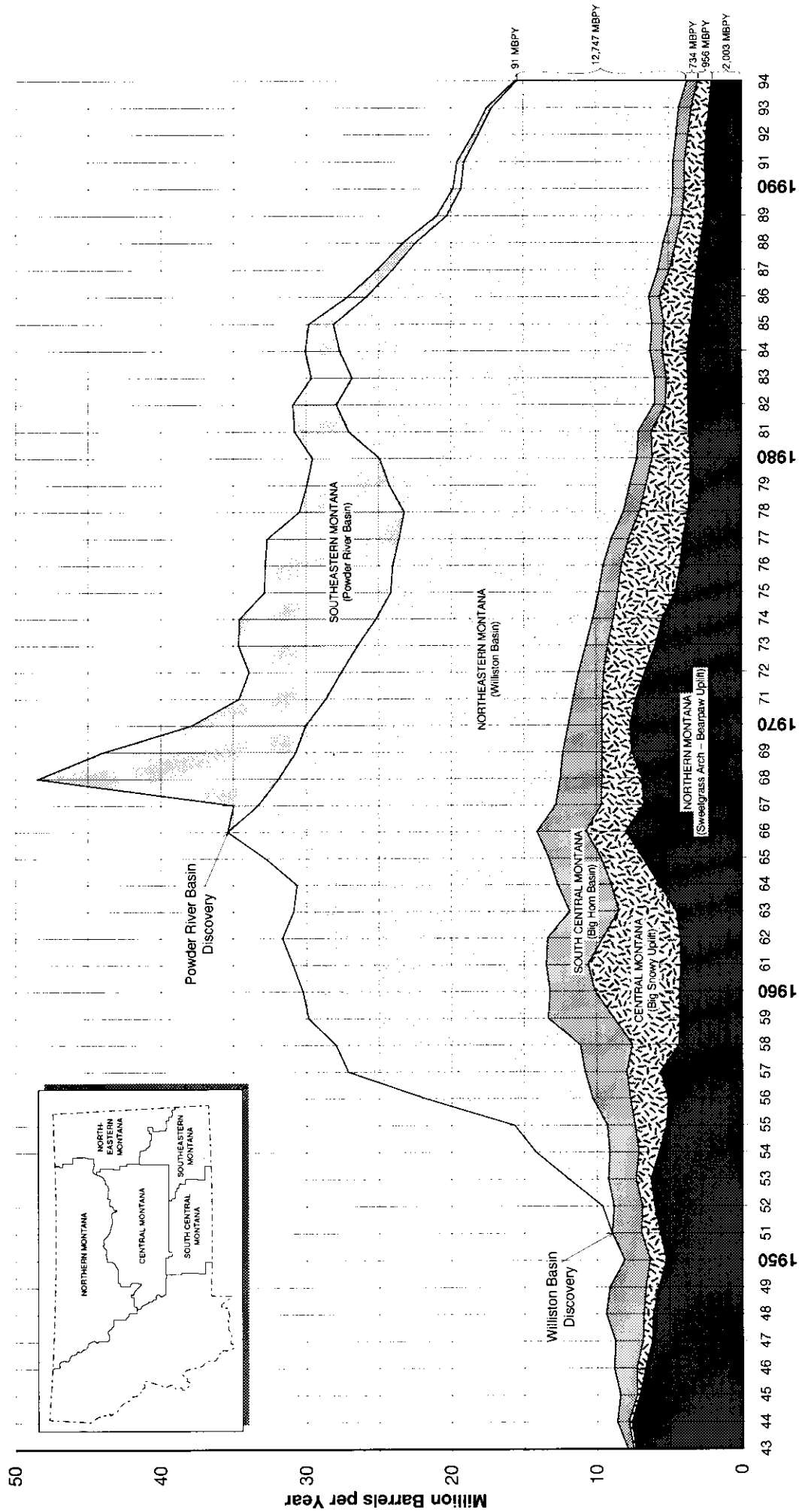
FIVE YEAR SUMMARY

	1990	1991	1992	1993	1994
OIL PRODUCTION IN BARRELS					
Northern Montana	2,432,506	2,510,130	2,426,783	2,143,943	2,003,272
South Central	805,807	804,003	832,580	772,668	733,965
Central	1,454,066	1,393,046	1,227,475	1,095,551	955,703
Williston Basin	14,592,497	14,380,288	13,637,695	13,110,882	12,747,075
Powder River Basin	550,211	485,881	355,139	272,517	90,965
TOTAL	19,835,087	19,573,348	18,479,672	17,395,561	16,530,980
NUMBER OF PRODUCING OIL WELLS					
Northern Montana	2,579	2,534	2,568	2,408	2,324
South Central	135	123	138	122	136
Central.....	323	310	287	298	272
Williston Basin	1,356	1,338	1,338	1,287	1,311
Powder River Basin	118	79	69	56	71
TOTAL	4,514	4,385	4,400	4,171	4,114
AVERAGE DAILY PRODUCTION/OIL WELL.					
Northern Montana	2.6	2.7	2.6	2.4	2.4
South Central	16.4	17.9	16.5	17.4	14.8
Central.....	12.3	12.3	11.7	10.1	9.6
Williston Basin	29.5	29.4	27.8	27.9	26.6
Powder River Basin	12.8	16.9	14.1	13.3	3.5
STATE AVERAGE	12.0	12.2	11.5	11.4	11.0
DEVELOPMENT WELLS DRILLED					
Oil Wells	34	46	36	39	34
Gas Wells	180	140	136	80	78
Dry Holes.....	39	34	31	18	29
Service Wells	5	6	4	1	5
TOTAL	258	226	207	138	146
EXPLORATORY WELLS DRILLED					
Oil Wells	4	2	1	9	23
Gas Wells	12	17	8	3	12
Dry Holes.....	57	32	41	29	45
Temporary Abandoned	1	1	2	3	6
TOTAL	74	52	52	44	86
TOTAL WELLS DRILLED	332	278	259	182	232
TOTAL FOOTAGE DRILLED	920,283	822,739	788,721	677,698	906,564
AVERAGE FOOTAGE DRILLED	2,772	2,959	3,045	3,723	3,908

SUMMARY OF DRILLING BY COUNTIES – 1994

COUNTY	DEVELOPMENT			EXPLORATORY			SERVICE WELLS	TEMP. ABAND.	TOTAL WELLS	TOTAL FEET	AVERAGE FEET
	OIL	GAS	DRY	OIL	GAS	DRY					
Blaine	1	15	3	0	6	8	0	0	33	61,312	1,858
Carbon	0	0	0	0	0	0	3	0	3	8,230	2,743
Carter	0	0	0	0	0	0	0	1	1	8,725	8,725
Chouteau	0	0	1	0	0	1	0	0	2	1,867	934
Daniels	0	0	0	7	0	7	0	1	15	108,283	7,219
Fallon	10	3	1	5	0	0	0	1	20	210,744	10,537
Garfield	0	0	0	1	0	0	0	0	1	5,054	5,054
Glacier	10	3	2	0	0	1	0	0	16	62,807	3,925
Hill	1	20	8	0	4	7	0	0	40	62,114	1,553
Liberty	1	1	1	0	0	0	0	1	4	9,037	2,259
Musselshell	0	0	1	0	0	3	1	0	5	17,911	3,582
Phillips	0	16	0	0	0	0	0	0	16	21,068	1,317
Pondera	1	0	0	0	1	1	0	0	3	5,388	1,796
Richland	0	0	0	4	0	0	0	0	4	43,499	10,875
Roosevelt	2	0	1	0	0	5	1	0	9	91,059	10,118
Rosebud	0	0	0	1	0	1	0	0	2	11,069	5,535
Sheridan	1	0	0	3	0	2	0	0	6	57,040	9,507
Stillwater	0	0	0	0	0	1	0	0	1	1,140	1,140
Toole	5	20	11	1	1	5	0	1	44	81,602	1,855
Valley	2	0	0	1	0	3	0	1	7	38,615	5,516
TOTALS	34	78	29	23	12	45	5	6	232	906,564	3,908

Crude Oil Production 1943-1994



GAS PRODUCTION DATA - 1994 NATURAL GAS

Field	County	Reported Formation	Produced MCF
Alma	Liberty	Bow Island, Blackleaf	1,400
Amanda	Toole	Bow Island, Dakota, Sunburst, Swift	235,738
Arch Apex	Toole	Bow Island, Sunburst, Swift	284,089
Ashfield	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	1,017,936
Badlands	Hill	Eagle	178,425
Battle Creek	Blaine	Eagle, Niobrara	1,920,533
Bears Den	Liberty	Bow Island, Swift	11,059
Bell Creek, Southeast	Powder River	Muddy	340,305
Big Coulee	Golden Valley, Stillwater	Cat Creek, Morrison	151,419
Big Rock	Glacier	Blackleaf, Bow Island, Colorado	434,030
Black Butte	Hill	Eagle	72,234
Black Coulee	Blaine	Eagle	238,867
Blackfoot	Glacier	Dakota, Sunburst	56,756
Blackjack	Liberty	Blackleaf, Bow Island, Second White Specks, Sunburst	66,722
Border	Toole	Moulton, Sunburst	3,041
Bowdoin and Area	Phillips, Valley	Bowdoin (Carlile), Greenhorn, Phillips	3,992,119
Bowes	Blaine	Eagle	381,642
Bradley	Glacier	Bow Island, Sunburst	8,157
Browns Coulee, East	Hill	Eagle	901
Bullwacker	Blaine, Chouteau	Eagle, Judith River, Virgelle	572,028
Camp Creek	Chouteau	Eagle	19,107
Canadian Coulee	Hill	Sawtooth	369
Canadian Coulee, North	Hill, Liberty	Sawtooth	1,323
Cedar Creek	Fallon	Eagle, Judith River	1,286,174
Clark's Fork	Carbon	Greybull	22,297
Coal Coulee	Hill	Eagle	2,844
Coal Mine Coulee	Chouteau	Eagle, Second White Specks	24,916
Cut Bank	Glacier, Toole	Bow Island, Cut Bank, Dakota, Kootenai, Lander, Madison, Moulton, Sunburst	2,681,685
Devon	Toole	Bow Island	99,127
Devon, East	Toole	Bow Island	14,982
Devon, South	Toole	Bow Island	13,965
Dry Creek	Carbon	Eagle, Frontier, Greybull, Judith River, Virgelle	435,917
Dry Creek (Shallow Gas)	Carbon	Virgelle	63,454
Dry Creek, Middle	Carbon	Frontier	14,430
Dry Creek, West	Carbon	Greybull	15,093
Dry Fork	Pondera	Bow Island	18,048
Dunkirk	Toole	Dakota	135,160
Dunkirk, North	Toole	Bow Island, Sunburst, Swift	271,845
Dutch John Coulee	Toole	Sunburst	78,969
Eagle Springs	Toole	Bow Island, Sunburst, Swift	10,677
Ethridge	Toole	Swift	84,483
Ethridge, North	Toole	Bow Island, Swift	50,709
Fitzpatrick Lake	Toole	Bow Island, Swift	96,233
Flat Coulee	Liberty	Bow Island, Dakota, Swift	40,038
Fort Conrad	Toole, Pondera	Bow Island	26,983
Fred and George Creek	Toole	Bow Island, Sunburst, Swift	34,807
Fresno and Area	Hill	Eagle	29,094
Galata	Toole	Bow Island	50,944
Gold Butte	Toole	Bow Island	1,402
Golden Dome	Carbon	Greybull, Eagle, Frontier	38,633
Grandview	Liberty	Bow Island, Sawtooth	21,967
Hardpan	Pondera, Chouteau	Bow Island	69,165
Havre	Hill, Blaine	Eagle	22,853
Haystack Butte	Liberty	Bow Island	30,298
Haystack Butte, West	Liberty	Bow Island	65,908
Keith, East and Area	Liberty	Bow Island, Niobrara, Sawtooth, Second White Specks ..	380,924
Kevin, Area	Toole	Sunburst	18,817
Kevin Southwest	Toole	Bow Island, Dakota, Sunburst, Swift	259,102
Kevin Sunburst	Toole	Bow Island, Burwash, Dakota, Eagle, Ellis, Nisku, Kootenai, Madison, Sunburst, Swift	654,504
Kevin Sunburst (Dakota)	Toole	Dakota	31,518
Kevin Sunburst-Bow Island	Toole	Bow Island	59,416
Kevin Sunburst Nisku	Toole	Swift	84,018

**GAS PRODUCTION DATA - 1994
NATURAL GAS (CONTINUED)**

Field	County	Reported Formation	Produced MCF
Kevin, East Bow Island	Toole	Bow Island, Sunburst	22,742
Kevin, East Nisku Oil	Toole	Nisku, Sunburst	43,827
Kicking Horse	Toole	Bow Island, Sawtooth, Sunburst	114,177
Kinyon Coulee Area	Toole	Bow Island	4,595
Kippen Area, East	Toole	Madison, Swift	25,648
Lake Basin	Stillwater	Claggett, Eagle, Frontier, Virgelle, Telegraph Creek	4,275
Ledger	Pondera	Bow Island	131,378
Leroy	Blaine	Eagle	98,509
Liscom Creek	Custer	Shannon	74,861
Little Creek	Chouteau	Eagle, Virgelle	14,575
Little Rock	Glacier	Blackleaf, Bow Island	297,229
Lohman	Blaine	Eagle	176,832
Loring Unit	Phillips	Carlile, Greenhorn, Phillips	1,817,228
Loring, East	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	396,534
Loring, West	Phillips	Carlile, Greenhorn, Phillips	23,353
Marias River	Toole, Pondera	Bow Island	80,697
Middle Butte	Toole, Liberty	Blackleaf, Bow Island, Second White Specks	57,095
Miners Coulee	Toole	Blackleaf, Bow Island, Sawtooth, Sunburst, Swift	285,330
Mount Lily	Liberty	Bow Island, Swift	8,608
O'Briens Coulee	Liberty	Bow Island, Blackleaf, Second White Specks, Spike	190,752
Old Shelby	Toole	Bow Island, Sunburst, Swift	1,497,753
Phantom	Toole	Sunburst	14,736
Phantom, West	Toole	Sunburst	20,660
Police Coulee	Toole	Bow Island	38,987
Prairie Dell	Toole	Bow Island, Dakota, Sunburst, Swift	883,136
Prairie Dell, West	Toole	Blackleaf, Swift	32,715
Rattlesnake Coulee	Toole	Sunburst	686
Red Rock	Hill	Eagle	165,667
Rocky Boy Area	Hill	Eagle	60,846
Rudyard	Hill	Eagle, Sawtooth	76,506
Sage Creek	Liberty	Blackleaf, Bow Island, Second White Specks	91,791
Sandwich	Liberty	Swift	66
Sawtooth Mountain & Area	Blaine	Eagle, Judith River	529,129
Shelby Area	Toole	Burwash, Sunburst	18,411
Sherard and Area	Blaine, Chouteau	Eagle, Judith River	1,470,278
Sixshooter Dome	Sweet Grass	Eagle, Lakota	301,577
Snoose Coulee	Liberty	Bow Island	30,678
Soberup Coulee	Pondera	Bow Island	422
Strawberry Creek Area	Toole	Bow Island, Burwash, Sunburst	38,613
Swanson Creek	Phillips, Valley	Carlile, Greenhorn, Phillips	328,637
Sweetgrass and Area	Toole	Sunburst	19,198
Three Mile	Blaine	Eagle	51,516
Tiber	Toole	Bow Island	2
Tiber, East	Toole	Bow Island	59,162
Tiger Ridge and Area	Toole	Eagle, Judith River	14,623,697
Timber Creek	Toole	Sunburst	16,405
Trail Creek	Liberty, Toole	Bow Island, Sunburst, Swift	101,668
Utopia	Liberty	Sawtooth, Bow Island	55,858
Vandalia	Valley	Carlile	27,876
West Butte	Toole	Bow Island	21,676
West Butte Shallow Gas	Toole	Bow Island, Dakota	12,323
Whitewater	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	1,945,763
Whitewater, East	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	157,743
Whitlash	Liberty	Bow Island, Dakota, Madison, Spike, Sunburst, Swift	429,446
Whitelash, West	Toole	Bow Island, Sunburst, Swift	14,873
Williams	Pondera	Bow Island	97,888
Willow Ridge	Toole	Bow Island, Dakota, Sunburst, Swift	217,189
Willow Ridge, South	Toole	Sunburst	186,327
Willow Ridge, West	Toole	Bow Island	7,307
Wildcat	Pondera		850
Wildcat	Stillwater		19,106
Wildcat	Toole		187,059
TOTAL NATURAL GAS			45,052,070

GAS PRODUCTION DATA - 1994 ASSOCIATED GAS

Field	County	Reported Formation	Produced MCF
Anvil	Roosevelt	Nisku, Ratcliffe, Red River, Winnipegosis	152,069
Bainville	Roosevelt	Ratcliffe, Red River, Winnipegosis	32,137
Bainville, North	Roosevelt	Mission Canyon, Nisku, Ratcliffe, Red River, Winnipegosis	172,889
Bainville, West	Roosevelt	Red River	6,467
Bainville II	Roosevelt	Red River	28,193
Beanblossum	Garfield	Tyler	2,589
Bell Creek	Powder River	Muddy	2,297
Benrud, East	Roosevelt	Nisku	10,757
Big Muddy Creek	Roosevelt	Red River	7,172
Black Diamond	Wibaux	Duperow, Madison, Nisku	4,579
Bloomfield	Dawson	Dawson Bay, Interlake, Red River	12,412
Box Canyon	Richland	Red River	1,320
Breed Creek	Rosebud	Tyler	1,681
Brorson	Richland	Madison, Mission Canyon, Ratcliffe, Red River	83,932
Brorson, South	Richland	Bakken, Madison, Mission Canyon, Red River	41,009
Brush Lake	Sheridan	Red River	10,788
Cabaret Coulee	Daniels	Madison	582
Cabin Creek	Fallon	Madison, Red River, Siluro-Ord	532,553
Canal	Richland	Madison, Mission Canyon, Red River	28,569
Cattails	Richland	Ratcliffe	36,676
Cattails, South	Richland	Madison, Ratcliffe	11,045
Charlie Creek	Richland	Dawson Bay, Red River	10,005
Charlie Creek, East	Richland	Red River	25,674
Clear Lake	Sheridan	Mission Canyon, Nisku, Ratcliffe, Red River	73,215
Clear Lake, South	Sheridan	Red River	1,543
Colored Canyon	Sheridan	Red River, Nisku	3,457
Comertown	Sheridan	Duperow, Nisku, Ratcliffe, Red River	27,508
Comertown, South	Sheridan	Red River	8,468
Cottonwood	Richland	Ratcliffe	7,468
Cottonwood, East	Roosevelt	Ratcliffe	3,370
Crane	Richland	Devonian, Duperow, Interlake, Red River	88,968
Cupton	Fallon	Red River	29,246
Cut Bank	Pondera, Glacier, Toole	Cut Bank, Madison, Moulton	35,746
Dagmar	Sheridan	Red River	9,044
Deer Creek	Dawson	Charles	6,408
Diamond Point	Roosevelt	Red River, Interlake	46,123
Divide	Sheridan	Madison, Ratcliffe, Red River	49,415
Dooley	Sheridan	Ratcliffe	5,319
Dry Creek	Carbon	Greybull	63,460
Dwyer	Sheridan	Charles, Nisku, Red River	48,556
Eagle	Richland	Duperow, Madison, Mission Canyon, Ratcliffe, Red River	71,497
Elk Basin	Carbon	Embar, Frontier, Madison, Tensleep	343,175
Elk Basin, Northwest	Carbon	Madison	38,109
Enid, North	Richland	Red River	19,712
Fairview	Richland	Madison, Mission Canyon, Ratcliffe, Red River	381,979
Fairview, East	Richland	Winnipegosis	2,614
Fairview, West	Richland	Madison	539
Fertile Prairie	Fallon	Red River	9,706
Fishhook	Sheridan	Red River	9,129
Flat Coulee	Liberty	Swift	7,038
Flat Lake	Sheridan	Nisku, Ratcliffe	60,606
Flat Lake, South	Sheridan	Ratcliffe	1,444
Fort Gilbert	Richland	Madison, Mission Canyon, Red River	41,926

GAS PRODUCTION DATA - 1994 ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Four Mile Creek	Richland	Red River	1,703
Four Mile Creek, West	Richland	Red River	12,815
Fred & George Creek	Toole	Sunburst	463
Frog Coulee	Richland	Red River	5,215
Froid, South	Roosevelt	Red River	4,970
Girard	Richland	Red River	9,853
Glendive	Dawson	Red River, Siluro-Ord, Stoney Mountain	30,042
Golden Dome	Carbon	Greybull	30,202
Goose Lake	Sheridan	Ratcliffe, Red River	23,591
Goose Lake, Southeast	Sheridan	Ratcliffe	782
Goose Lake, West	Sheridan	Red River	6,176
Gossett	Richland	Red River	7,113
Gunsight	Roosevelt	Mission Canyon	9,996
Hardscrable Creek	Richland	Red River	400
Hawk Haven	Richland	Mission Canyon	1,400
Hay Creek	Richland	Mission Canyon, Red River	16,936
Hell Coulee	Daniels	Madison	9,263
Hiawatha	Musselshell	Tyler	619
High Five	Rosebud	Stensvad, Tyler	9,805
Intake II	Richland	Mission Canyon	11,873
Jim Coulee	Musselshell	Tyler	1,839
Katy Lake	Sheridan	Red River	10,770
Katy Lake, North	Sheridan	Madison, Mission Canyon, Nesson, Red River	108,926
Kevin-Sunburst	Toole	Madison, Sunburst, Swift	26,271
Kevin, East Nisku Oil	Toole	Nisku	12,145
Kincheloe Ranch, West	Rosebud	Tyler	6,506
Laird Creek	Liberty	Swift	156
Lambert	Richland	Red River	16,169
Landslide Butte	Glacier	Madison	26,824
Leary	Powder River	Muddy	13,650
Little Beaver	Fallon	Red River, Siluro-Ord	22,379
Little Beaver, East	Fallon	Mission Canyon, Siluro-Ord	8,263
Little Wall Creek	Musselshell	Stensvad, Tyler	11,722
Little Wall Creek, South	Musselshell	Tyler	7,761
Lone Butte	Richland	Mission Canyon, Red River	27,667
Lonetree Creek	Richland	Red River	79,354
Long Creek, West	Roosevelt	Nisku	722
Lookout Butte	Fallon	Madison, Red River, Siluro-Ord	66,775
Lookout Butte, East	Fallon	Lodgepole, Red River	9,299
Lowell	Sheridan	Red River	2,720
Lustre	Valley	Charles, Mission Canyon, Ratcliffe	71,415
Lustre, North	Valley	Charles	2,912
McCabe	Roosevelt	Ratcliffe	4,331
McCoy Creek	Sheridan	Red River	1,316
Medicine Lake	Sheridan	Duperow, Gunton, Nisku, Red River, Winnipegosis	96,955
Melstone	Musselshell	Tyler	16,566
Midfork	Valley	Charles, Nisku	15,728
Missouri Breaks	Richland	Nisku, Red River	6,480
Mon Dak, West	Richland	Duperow, Interlake, Madison, Mission Canyon, Red River, Siluro-Ord, Stoney Mountain	276,188
Mona	Richland	Red River	48,874
Monarch	Fallon	Interlake, Red River, Siluro-Ord	21,422
Mustang	Richland	Bakken, Madison, Red River	49,774
Neiser Creek	Sheridan	Red River	16,139

GAS PRODUCTION DATA - 1994 ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Nielsen Coulee	Daniels	Madison	27,054
Ninemile	Toole	Nisku	4,010
Nohly	Richland	Madison, Mission Canyon, Nisku, Ratcliffe, Red River	290,821
North Fork	Richland	Mission Canyon	9,807
Ollie	Fallon	Red River	1,861
Otis Creek	Richland	Ratcliffe	6,032
Otis Creek, South	Richland	Ratcliffe, Red River	1,289
Outlet	Daniels	McGowan	1,238
Outlook	Sheridan	Duperow, Interlake, Nisku	18,880
Oxbow	Roosevelt	Red River	20,888
Oxbow II	Roosevelt	Nisku, Red River	87,133
Palomino	Roosevelt	Nisku	5,557
Pennel	Fallon	Red River, Siluro-Ord, Stoney Mountain	498,628
Pine	Fallon, Wibaux Prairie, Dawson	Mission Canyon, Siluro-Ord	243,698
Poplar, Northwest	Roosevelt	Charles	67,780
Pronghorn	Sheridan	Red River	1,150
Putnam	Richland	Interlake, Madison, Mission Canyon, Red River	55,590
Ragged Point	Musselshell	Tyler	1,390
Rainbow	Richland	Red River	1,644
Rattler Butte	Rosebud	Tyler	6,800
Rattlesnake Butte	Petroleum	Amsden, Cat Creek	4,752
Raymond	Sheridan	Duperow, Mississippian, Nisku, Red River, Winnipegosis	273,742
Reagan	Glacier	Madison	128,826
Red Bank	Roosevelt	Madison, Mission Canyon, Ratcliffe	19,677
Red Bank, South	Roosevelt	Red River	8,275
Red Creek	Glacier	Cut Bank, Madison	21,954
Red Water, East	Richland	Red River	11,675
Refuge	Sheridan	Red River	8,148
Reserve	Sheridan	Red River	32,430
Reserve II	Sheridan	Red River	8,456
Reserve South	Sheridan	Winnipegosis	4,305
Ridgelawn	Richland	Madison, Mission Canyon, Ratcliffe, Red River	69,995
Ridgelawn, North	Richland	Madison	22,325
RipRap Coulee	Roosevelt	Ratcliffe	31,489
River Bend	Richland	Red River	12,015
Rocky Point	Roosevelt	Red River	11,951
Royals	Dawson	Dawson Bay	5,525
Rush Mountain	Sheridan	Gunton	11,705
Salt Lake	Sheridan	Red River	4,344
Second Creek	Richland	Mission Canyon, Ratcliffe, Red River	27,979
Sidney	Richland	Madison, Mission Canyon, Ratcliffe, Red River	34,966
Sidney, East	Richland	Madison	263
Singletree	Roosevelt	Nisku, Red River	11,666
Sioux Pass	Richland	Interlake, Red River	55,226
Sioux Pass, Middle	Richland	Red River	31,183
Sioux Pass, North	Richland	Madison, Nisku, Ratcliffe, Red River	98,178
Sioux Pass, South	Richland	Red River	9,311
South Fork	Richland	Mission Canyon, Red River	19,078
Spring Lake	Richland	Bakken, Red River	15,136
Spring Lake, West	Richland	Bakken	5,460
Stampede	Richland	Bakken, Red River	25,127
Sumatra	Rosebud	Tyler	692

**GAS PRODUCTION DATA - 1994
ASSOCIATED GAS (continued)**

Field	County	Reported Formation	Produced MCF
Sunny Hill, West	Sheridan	Madison, Red River	9,377
Target	Roosevelt	Nisku	18,440
Three Buttes	Richland	Red River	16,042
Tule Creek	Roosevelt	Devonian, Nisku	11,193
Tule Creek, East	Roosevelt	Nisku	4,975
Two Waters	Richland	Bakken	1,177
Utopia	Liberty	Swift	19,326
Vaux	Richland	Bakken, Interlake, Madison, Mission Canyon, Ratcliffe, Red River, Stonewall	131,888
Wakea	Sheridan	Duperow, Gunton, Nisku, Red River, Winnipegosis	53,811
Weed Creek	Yellowstone	Amsden	746
Whittash	Liberty	Dakota, Sunburst, Swift	42,158
Wills Creek, South	Fallon	Siluro-Ord	4,114
Woodrow	Dawson	Charles, Interlake	4,320
Wrangler	Sheridan	Red River	26,106
Wrangler, North	Sheridan	Red River	2,516
Wright Creek	Powder River	Muddy	14,744
Wildcat	Richland		460
Wildcat	Sheridan		5,915
TOTAL ASSOCIATED GAS			6,735,830

REFINERS' ANNUAL REPORT – 1994

COMPANY	BEGINNING STORAGE	MONTANA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
Cenex	243,143	1,810,604	3,119,750	10,746,863	15,694,050	226,310
Conoco	113,371	246,805	787,455	16,563,940	17,588,440	123,129
Exxon Corp.	142,686	469,459	7,957,334	8,423,537	16,641,924	351,092
Montana Refining Co.	16,794	582,070	-0-	1,649,110	2,232,905	15,069
TOTALS	515,994	3,108,938	11,864,539	37,383,450	52,157,319	715,600

PERCENTAGE OF CRUDE OIL RECEIVED

YEAR	MONTANA	CANADA	WYOMING
1990	8.49	57.10	34.41
1991	9.23	58.30	32.47
1992	8.34	60.02	31.64
1993	6.86	62.59	30.55
1994	5.94	71.40	22.66

AVERAGE BARRELS PER DAY

YEAR	MONTANA	CANADA	WYOMING	TOTAL
1990	11,115	74,716	45,017	130,848
1991	11,704	73,948	41,181	126,833
1992	10,676	76,803	40,492	127,971
1993	9,302	84,868	41,415	135,585
1994	8,518	102,420	32,506	143,444

REFINING FIVE YEAR COMPARISON

1990	1991	1992	1993	1994
47,517,800	46,247,992	47,131,774	49,442,849	52,157,319

1994 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS
Ace High	Rosebud	0	3,686	Burns Creek	Dawson, Richland	0	258,987
Agawan	Teton	0	79	Burns Creek, South	Dawson	0	79,958
Alkali Coulee	Sheridan	0	19,546	Butchers Creek	Carbon	0	579
Andes	Richland	0	21,175	Bynum	Teton	0	5,971
Antelope, North	Sheridan	0	2,484	Cabaret Coulee	Daniels	6,415	436,261
Anvil	Roosevelt	136,792	4,332,953	Cabin Creek	Fallon	1,392,861	98,098,342
Anvil, North	Sheridan	0	9,446	Cadmus	Glacier	0	1,173
Ash Creek	Big Horn	3,621	858,083	Canadian Coulee	Hill	0	2,145
Autumn	Valley	0	35,546	Canal	Richland	26,304	1,221,075
Bainville	Roosevelt	40,181	893,392	Cannonball	Fallon	0	74,779
Bainville (Ratcliffe /Mission Canyon)	Roosevelt	665	1,857	Carlyle	Wibaux	6,142	321,096
Bainville II	Roosevelt	32,628	728,326	Cat Creek	Petroleum, Garfield	43,864	23,807,065
Bainville, North	Roosevelt	255,812	2,348,058	Cattails	Richland	69,715	704,606
Bainville, West	Roosevelt	5,817	240,128	Cattails, South	Richland	20,609	122,025
Bannatyne	Teton	7,821	400,637	Charlie Creek	Richland	14,371	746,876
Bascom	Musselshell	0	27,830	Charlie Creek, East	Richland	59,940	765,086
Beanblossom	Garfield	22,947	544,930	Charlie Creek, North	Richland	0	43,894
Bear's Den	Liberty	39,493	615,876	Chelsea Creek	Roosevelt	5,339	109,582
Belfry	Carbon	0	101,245	Clark Fork, North	Carbon	0	1,024,608
Bell Creek	Powder River	73,995	131,838,137	Clark Fork, South	Carbon	0	80,553
Benrud	Roosevelt	0	289,695	Clark's Fork	Carbon	417	93,215
Benrud, East	Roosevelt	21,063	2,912,148	Clear Lake	Sheridan	136,529	3,373,031
Benrud, Northeast	Roosevelt	4,793	1,011,983	Clear Lake, South	Sheridan	8,413	194,721
Berthelote	Toole	608	95,982	Coal Ridge	Sheridan	0	22,582
Big Gully	Musselshell	856	111,366	Colored Canyon	Sheridan	7,508	881,251
Big Gully, North	Musselshell	0	29,892	Comertown	Sheridan	86,048	2,592,764
Big Muddy Creek	Roosevelt	6,814	1,324,724	Comertown, South	Sheridan	19,471	380,928
Big Rock	Glacier	1,113	11,877	Conrad, South	Pondera	900	159,410
Big Wall	Musselshell	70,847	8,069,526	Corner Pocket	Richland	0	14,483
Big Wall, North	Musselshell	0	7,218	Cottonwood	Richland	34,364	268,860
Black Diamond	Wibaux	7,085	645,967	Cottonwood, East	Roosevelt	10,419	57,941
Blackfoot	Glacier	29,141	1,669,578	Cow Creek	McCone	0	127,813
Blackfoot, East	Glacier	0	810	Cow Creek, East	McCone	20,947	2,586,710
Blackleaf Canyon	Teton	0	32,922	Crane	Richland	87,276	2,470,013
Bloomfield	Dawson	15,066	555,448	Crocker Springs, East	Pondera	0	3,464
Blue Hill	Richland	0	162,251	Crooked Creek	Yellowstone	0	27,395
Blue Mountain	Wibaux	0	69,258	Culbertson	Roosevelt	0	175,652
Border	Toole	6,449	1,460,215	Cupton	Fallon	48,894	2,512,247
Boulder	Richland	0	156,754	Curlew	Sheridan	0	5,468
Bowes	Blaine	122,348	10,411,036	Cut Bank	Glacier, Toole	554,092	165,694,502
Box Canyon	Richland	1,527	245,847	Dagmar	Sheridan	14,798	613,679
Bradley	Glacier	2,153	265,204	Dagmar, North	Sheridan	0	55,342
Brady	Pondera	5,958	213,470	Deadman's Coulee	Roosevelt	0	264,528
Bredette	Roosevelt	0	232,121	Dean Dome	Stillwater	0	92,597
Bredette, North	Roosevelt	0	488,554	Deer Creek	Dawson	39,009	2,394,795
Breed Creek	Rosebud	77,413	1,629,210	Delphia	Musselshell	3,724	345,919
Brorson	Richland	89,780	3,952,547	Devil's Basin	Musselshell	2,004	124,902
Brorson, South	Richland	75,487	2,028,853	Devil's Pocket	Golden Valley	844	53,036
Brush Lake	Sheridan	32,581	2,814,497	Diamond Point	Roosevelt	40,103	959,855
Buffalo Flats	Chouteau	0	603	Divide	Sheridan	139,574	2,547,868
Buffalo Lake	Glacier	0	936	Dooley	Sheridan	19,817	266,468
Burget	Roosevelt	0	6,504	Dry Creek	Carbon	1,744	4,161,715
Burget, East	Roosevelt	13,018	267,983	Dry Creek, Middle	Carbon	65	1,692
				Dry Creek, West	Carbon	295	12,984

1994 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS
Dugout Coulee	Richland	0	66,740	Gypsy Basin	Pondera	2,429	502,855
Dunkirk, North	Toole	0	19	Hardpan	Pondera	0	2,805
Dutch Henry	Daniels	97,719	97,719	Hardscrabble Creek	Richland	627	136,501
Dutch John Coulee	Toole	5,308	224,980	Hawk Creek	Musselshell	289	13,214
Dwyer	Sheridan	116,901	8,785,442	Hawk Haven	Richland	12,198	19,590
Eagle	Richland	46,806	2,019,587	Hay Creek	Richland	19,499	1,428,857
East Glacier	Glacier	520	23,863	Hell Coulee	Daniels	35,374	46,901
Elk Basin	Carbon	561,514	85,347,798	Hiawatha	Musselshell	10,347	1,627,753
Elk Basin, Northwest	Carbon	70,077	2,105,939	Hibbard	Rosebud	0	219,686
Enid, North	Richland	18,611	414,547	High Five	Rosebud	58,389	2,619,236
Epworth	Richland	0	55,142	Highview	Pondera	2,120	95,222
Fairview	Richland	136,712	9,045,848	Homestead	Roosevelt	0	303
Fairview, East	Richland	2,374	423,443	Honker	Sheridan	0	117,078
Fairview, West	Richland	19,509	259,922	Horse Creek	Liberty	111	12,909
Fertile Prairie	Fallon	22,688	791,259	Howard Coulee	Musselshell	2,008	175,126
Fiddler Creek	Stillwater	0	2,574	Injun Creek	Rosebud	1,434	127,547
Fishhook	Sheridan	20,020	1,101,611	Intake II	Richland	26,247	877,653
Fitzpatrick Lake	Toole	147	147	Ivanhoe	Musselshell	19,278	4,575,410
Flat Coulee	Liberty	73,501	5,152,801	Jack Creek	Carbon	0	1,310
Flat Lake	Sheridan	164,055	16,194,561	Jim Coulee	Musselshell	23,012	4,401,009
Flat Lake, East	Sheridan	11,156	107,606	Katy Lake	Sheridan	7,833	176,673
Flat Lake, South	Sheridan	9,009	1,245,984	Katy Lake, North	Sheridan	187,268	4,974,300
Flaxville	Daniels	0	56,283	Keg Coulee	Musselshell	26,019	5,709,575
Fort Gilbert	Richland	34,030	2,323,610	Keg Coulee, North	Musselshell	226	440,956
Four Buttes	Sheridan	0	41,067	Kelley	Musselshell	2,934	1,021,574
Four Mile Creek	Richland	7,279	400,736	Kevin Nisku Oil, East	Toole	33,915	486,798
Four Mile Creek, West	Richland	23,994	354,843	Kevin Sunburst	Toole	267,538	80,172,527
Fox Creek	Richland	0	200,464	Kicking Horse	Toole	0	1,526
Fox Creek, North	Richland	0	75,323	Kincheloe Ranch, West	Rosebud	21,295	770,289
Frannie	Carbon	0	773,613	Kippen, East	Toole	0	150
Fred & George Creek	Toole	43,487	13,312,659	Krug Creek	Dawson	0	15,288
Frog Coulee	Richland	14,607	210,614	Laird Creek	Liberty	1,603	599,110
Froid, South	Roosevelt	6,219	256,082	Lake Basin	Stillwater	0	473,639
Gage	Musselshell	1,456	651,529	Lakeside	Roosevelt	0	487
Gage, Southwest	Musselshell	0	16,289	Lambert	Richland	11,216	491,723
Gas City	Dawson	74,764	10,376,822	Lambert, North	Richland	0	36,552
Gettysburg	Richland	0	304	Lamesteer Creek	Wibaux	0	31,845
Girard	Richland	17,976	502,453	Landslide Butte	Glacier	33,879	494,925
Glendive	Dawson	131,825	13,434,380	Lariat	Sheridan	0	3,599
Glendive, South	Dawson	0	68,936	Laurel	Yellowstone	0	1,017
Golden Dome	Carbon	1,310	108,079	Leary	Powder River	8,551	659,737
Goose Lake	Sheridan	127,801	9,486,045	Ledger	Toole	0	275
Goose Lake, East	Sheridan	0	4,522	Line Coulee	Daniels	0	57,789
Goose Lake, Southeast	Sheridan	843	45,527	Lisk Creek	Richland	0	1,939
Goose Lake, West	Sheridan	15,317	575,418	Little Beaver	Fallon	248,729	14,217,410
Gossett	Richland	15,493	366,533	Little Beaver, East	Fallon	96,294	6,133,365
Graben Coulee	Glacier	36,454	2,303,473	Little Phantom	Toole	749	56,650
Grandview	Liberty	0	9,784	Little Wall Creek	Musselshell	133,104	4,694,692
Grandview, East	Liberty	1,477	55,250	Lobo	Sheridan, Roosevelt	0	260,141
Gray Blanket	Big Horn	32,388	136,996	Lodge Grass	Big Horn	7,747	335,698
Green Coulee	Sheridan	3,769	199,612	Lone Butte	Richland	28,311	746,347
Green Coulee, East	Sheridan	0	62,942	Lone Rider	Roosevelt	0	5,903
Gumbo Ridge	Rosebud	1,392	595,981	Lonetree Creek	Richland	76,293	3,849,184
Gunsight	Roosevelt	20,269	303,760	Lonetree Creek, West	Richland	0	33,029

1994 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS
Long Creek	Roosevelt	2,144	79,159
Long Creek, West	Roosevelt	23,009	752,111
Lookout Butte	Fallon	450,474	26,112,956
Lookout Butte, East	Fallon	220,972	844,292
Lost Creek	McCone	0	1,534
Lowell	Sheridan	8,754	276,749
Lustre	Valley	180,319	5,142,773
Lustre, North	Valley	5,457	182,444
Mackay Dome	Stillwater	0	77,334
Malcolm Creek	Sheridan	0	11,450
Mason Lake	Musselshell	6,823	987,101
Mason Lake, North	Musselshell	0	17,923
McCabe	Roosevelt	5,063	253,958
McCabe, East	Roosevelt	0	6,805
McCabe, South	Roosevelt	0	6,599
McCabe, West	Roosevelt	0	69,988
McCoy Creek	Sheridan	3,040	58,601
Meander	Pondera	414	6,386
Medicine Lake	Sheridan	85,691	3,619,007
Melstone	Musselshell	34,158	3,821,214
Midby	Sheridan	0	70,172
Midfork	Valley	67,434	377,012
Mineral Bench	Roosevelt	0	186,656
Miners Coulee	Toole	0	152,708
Missouri Breaks	Richland	17,470	358,064
Mon Dak, West	Richland	306,488	10,205,080
Mona	Richland	7,211	133,910
Monarch	Fallon	120,750	6,248,630
Mosser Dome	Yellowstone	6,392	411,491
Musselshell	Musselshell	317	38,937
Mustang	Richland	52,000	721,826
Neiser Creek	Sheridan	14,682	299,903
Nielsen Coulee	Daniels	51,811	146,463
Ninemile	Toole	2,981	56,415
Nohly	Richland	417,886	5,964,118
Nohly, South	Richland	0	125,082
North Fork	Richland	14,026	542,370
Olje	Sheridan	229	163,185
Ollie	Fallon	4,690	246,524
Otis Creek	Richland	11,186	868,888
Otis Creek, South	Richland	4,517	268,735
Otter Creek	Sheridan	0	28,492
Outlet	Daniels	2,477	6,384
Outlook	Sheridan	20,203	8,921,641
Outlook, South	Sheridan	0	693,151
Outlook, West	Sheridan	21,880	857,880
Oxbow	Roosevelt	16,792	457,911
Oxbow II	Roosevelt	116,488	270,334
Palomino	Roosevelt	136,066	2,232,206
Pasture	Dawson	0	2,869
Pasture Creek	Dawson	0	1,914
Pelican	Sheridan	0	191,494
Pennel	Fallon	2,396,097	88,268,542
Pete Creek	Toole	477	23,205

FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS
Phantom	Toole	0	43,585
Pine	Dawson, Fallon, Prairie, Wibaux	974,217	112,142,700
Pine, East	Wibaux	0	19,349
Pipeline	Sheridan	0	16,424
Plentywood	Sheridan	0	22,830
Pole Creek	Musselshell	0	169,726
Police Coulee	Toole	0	14
Pondera	Pondera, Teton	250,356	26,665,490
Pondera Coulee	Teton	4,406	91,035
Poplar, East	Roosevelt	135,072	46,079,478
Poplar, Northwest	Roosevelt	99,634	3,936,986
Poplar, Southeast	Roosevelt	0	162,546
Prairie Dell	Toole	178	1,575
Prairie Elk	McCone	0	104,226
Prichard Creek	Toole	0	164,205
Pronghorn	Sheridan	10,052	454,604
Putnam	Richland	89,064	5,191,370
Rabbit Hills	Blaine	140,607	1,520,751
Ragged Point	Musselshell	7,476	2,597,211
Ragged Point, Southwest	Musselshell	36,983	1,672,439
Rainbow	Richland	1,687	166,375
Rattler Butte	Rosebud	11,070	1,008,376
Rattlesnake Butte	Petroleum	23,982	580,466
Rattlesnake Coulee	Toole	0	91,024
Raymond	Sheridan	78,023	4,996,809
Raymond, North	Sheridan	0	119,990
Raymond, Northeast	Sheridan	0	120,687
Reagan	Glacier	109,619	9,286,120
Red Bank	Roosevelt	58,750	2,015,265
Red Bank, South	Roosevelt	9,859	361,425
Red Creek	Glacier	146,777	6,481,781
Red Fox	Roosevelt	0	380,137
Red Water	Richland	3,864	74,863
Red Water, East	Richland	9,127	254,519
Redstone	Sheridan	0	468,178
Refuge	Sheridan	8,071	225,687
Repeat	Carter	0	547,064
Reserve	Sheridan	38,508	1,723,603
Reserve II	Sheridan	10,984	203,087
Reserve, South	Sheridan	2,139	67,153
Richey	Dawson, McCone	672	2,030,094
Richey Area, West	McCone	0	11,062
Richey, East	Dawson	0	10,386
Richey, Southwest	McCone	117	1,903,129
Ridgelawn	Richland	253,455	6,508,744
Ridgelawn, North	Richland	29,575	151,913
RipRap Coulee	Roosevelt	32,874	704,422
River Bend	Richland	10,047	265,080
Rocky Point	Roosevelt	12,705	525,400
Roscoe Dome	Carbon	0	15,556
Rosebud	Rosebud	17,106	511,892

1994 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1994 BARRELS	CUMULATIVE BARRELS
Rough Creek	Powder River	0	3,599	Vida	McCone	0	264,988
Royals	Dawson	8,283	328,763	Viking	Sheridan	0	160
Royals, South	Dawson	0	3,082	Volt	Roosevelt	70,403	3,457,835
Rudyard	Hill	739	20,965	Wagon Box	Musselshell	0	32,379
Runaway	Teton	0	4,532	Wagon Trail	Richland	0	43,321
Rush Mountain	Sheridan	22,353	632,030	Wakea	Sheridan	107,719	2,461,514
Salt Lake	Sheridan	57,739	924,853	Weed Creek	Yellowstone	1,581	613,198
Salt Lake, West	Sheridan	31,234	101,541	Weldon	McCone	0	7,050,531
Sand Creek	Dawson	0	2,349,120	West Butte	Toole	1,587	309,733
Saturn	Daniels	0	32,773	West Fork	Roosevelt	0	6,671
Scobey	Daniels	0	3,916	Weygand	Blaine	10,694	310,899
Second Creek	Richland	23,181	1,318,371	Whitlash	Liberty, Toole	32,241	5,466,133
Second Guess	Teton	1,958	14,640	Whitlash, West	Toole	852	130,214
Sheepherder	Musselshell	0	76,942	Wibaux	Wibaux	0	23,580
Shotgun Creek	Roosevelt	14,585	469,783	Willow Creek, North	Musselshell	4,745	390,787
Shotgun Creek, North	Roosevelt	26	89,673	Willow Ridge	Toole	1,435	55,202
Sidney	Richland	45,546	3,336,046	Willow Ridge, South	Toole	0	3,267
Sidney, East	Richland	1,332	583,268	Wills Creek, South	Fallon	5,787	1,172,216
Singletree	Roosevelt	13,852	368,238	Windmill	Richland	0	31,943
Sioux Pass	Richland	78,249	3,696,825	Winnett Junction	Musselshell	19,827	988,022
Sioux Pass, East	Richland	0	89,267	Wolf Creek	Roosevelt	0	1,979
Sioux Pass, Middle	Richland	41,377	1,579,638	Wolf Springs	Yellowstone	15,215	4,792,728
Sioux Pass, North	Richland	129,714	4,320,043	Wolf Springs, South	Yellowstone	20,803	872,460
Sioux Pass, South	Richland	9,411	293,046	Woman's Pocket	Golden Valley	0	3,526
Smoke Creek	Daniels	0	100,305	Woodrow	Dawson	14,400	1,249,184
Snoose Coulee	Liberty	600	5,437	Wrangler	Sheridan	25,543	631,338
Snowden	Roosevelt	0	1,938	Wrangler, North	Sheridan	4,184	133,611
Snyder	Big Horn	1,956	472,764	Wright Creek	Powder River	8,419	329,629
Soap Creek	Big Horn	39,523	2,801,437	Yates	Wibaux	0	70,861
Soap Creek, East	Big Horn	6,916	178,922	Yellowstone	Dawson	0	39,405
South Fork	Richland	20,385	1,043,033	Wildcat	Carbon	0	6,368
Spring Lake	Richland	22,877	1,096,575	Wildcat	Daniels	271	3,779
Spring Lake, South	Richland	0	110,660	Wildcat	Dawson	0	1,489
Spring Lake, West	Richland	3,843	57,497	Wildcat	Fallon	964	11,647
Stampede	Richland	15,539	345,304	Wildcat	Garfield	0	468
Stampede, North	Richland	0	4,566	Wildcat	Glacier	0	48,412
Stensvad	Musselshell, Rosebud	17,311	10,219,520	Wildcat	Hill	0	405
Studhorse	Garfield	2,090	191,752	Wildcat	Liberty	0	3,254
Sumatra	Rosebud	212,386	45,066,648	Wildcat	McCone	0	12,575
Sunnyhill	Sheridan	3,629	260,293	Wildcat	Musselshell	0	925
Sunnyhill, West	Sheridan	12,290	167,489	Wildcat	Pondera	0	1,197
Target	Roosevelt	46,365	819,697	Wildcat	Powder River	0	27,445
Thirty Mile	Blaine	0	11,690	Wildcat	Richland	1,217	341,073
Three Buttes	Richland	24,037	444,752	Wildcat	Roosevelt	0	87,044
Tinder Box	Musselshell	1,540	13,245	Wildcat	Rosebud	14,229	14,229
Tippy Buttes	Musselshell	0	126,246	Wildcat	Sheridan	53,176	105,737
Tule Creek	Roosevelt	33,971	8,264,383	Wildcat	Stillwater	0	11,283
Tule Creek, East	Roosevelt	3,685	2,038,956	Wildcat	Teton	0	9,324
Tule Creek, South	Roosevelt	10,469	951,568	Wildcat	Toole	0	36,379
Two Medicine Creek	Glacier	0	10,249	Wildcat	Valley	0	447
Two Waters	Richland	5,722	329,556	Wildcat	Wibaux	0	8,388
Utopia	Liberty	24,037	720,578				
Vaux	Richland	154,665	4,538,257	Statewide Totals		16,534,961	1,387,814,882

1994 VALUATION REPORT

OIL MARKETED			
	<u>OIL (BBLs)</u>	<u>VALUE</u>	<u>AVG (\$/BBL)</u>
First Quarter	4,019,088	44,593,644	11.10
Second Quarter	4,049,784	58,147,086	14.36
Third Quarter	4,121,318	61,410,418	14.90
Fourth Quarter	<u>4,235,173</u>	<u>60,569,250</u>	<u>14.30</u>
TOTAL	16,425,363	224,720,398	13.68

Estimated cumulative value for produced oil (12/31/94) is \$11,869,145,630.

GAS MARKETED			
	<u>GAS (MCF)</u>	<u>VALUE</u>	<u>AVG (\$/MCF)</u>
First Quarter	15,023,618	22,986,613	1.53
Second Quarter	12,637,006	17,610,692	1.39
Third Quarter	11,774,650	15,756,205	1.34
Fourth Quarter	<u>14,109,322</u>	<u>19,242,840</u>	<u>1.36</u>
TOTAL	53,544,596	75,596,350	1.41

Information provided by Montana Department of Revenue.

1994 WELL COMPLETIONS

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
									OIL B/D	GAS MCF/D
005 Blaine										
Behm, L.E., Inc.	SESW 13 34N 19E	Rabbit #4	**5	22648	Rabbit Hills, SW	Sawtooth	07/01/94	4130	60	
Brown, J. Burns Operating Co.	NWSW 11 24N 18E	Bleha 11-24-18B	6	22667	Leroy		12/22/94	1750		
Brown, J. Burns Operating Co.	SENE 30 33N 18E	Nemetz 30-33-18	2	22647	Lohman	Eagle	09/29/94	1200		
Brown, J. Burns Operating Co.	SWNE 1 25N 18E	Federal 1-25-18	5	22673	Sherard, Area		12/15/94	2150		
Brown, J. Burns Operating Co.	SESW 33 35N 20E	Flynn 33-35-20B	6	22629	Wildcat		07/18/93	4380	0	0
Brown, J. Burns Operating Co.	NESE 17 32N 18E	Sheppard 17-32-18B	6	22644	Wildcat		03/23/94	1450	0	0
Brown, J. Burns Operating Co.	SWNE 24 35N 17E	Federal 24-35-17	6	22649	Wildcat		06/08/94	1650		
Brown, J. Burns Operating Co.	NWSE 27 35N 17E	Federal 27-35-17	6	22650	Wildcat		11/22/94	1721		
Brown, J. Burns Operating Co.	NESW 11 25N 19E	Federal 11-25-19B	6	22677	Wildcat		12/02/94	1800		
Meridian Oil, Inc.	NENW 24 34N 19E	Montgomery 21-24	1	22645	Rabbit Hills, SW	Sawtooth	03/19/94	4250	24	0
Montana Power Company	SESE 9 31N 19E	Sprinkle 16-9	2	22660	Bowes	Eagle	07/20/94	1299		50
Montana Power Company	SESW 9 31N 19E	Sprinkle 14-9	2	22661	Bowes	Eagle	07/23/94	1300		50
Montana Power Company	NENE 16 31N 19E	State 1-16	2	22662	Bowes	Eagle	09/16/94	1301		50
Montana Power Company	NENW 16 31N 19E	State 3-16	2	22663	Bowes	Eagle	07/25/94	1355		50
Spence Accounts, Inc.	NWNW 14 33N 17E	Baitruth 14-4	6	22646	Wildcat		05/27/94	1450		
UMC Petroleum Corp. (Ensource)	SESW 13 26N 18E	Jacobson 13-14	5	22658	Sherard, Area	Eagle	11/20/94	2050		2600
UMC Petroleum Corp. (Ensource)	SESW 14 26N 18E	Moore 14-14	5	22659	Sherard, Area	Eagle	11/20/94	2151		1100
UMC Petroleum Corp. (Ensource)	SWSW 28 26N 18E	U.S. 28-13	5	22664	Sherard, Area	Eagle	11/21/94	2000		2100
UMC Petroleum Corp. (Ensource)	NESE 17 26N 19E	U.S. 17-9	5	22665	Sherard, Area	Eagle	11/21/94	2300		149
UMC Petroleum Corp. (Ensource)	SWSW 18 26N 18E	U.S. 18-13	6	22676	Sherard, Area		11/12/94	2250		
UMC Petroleum Corp. (Ensource)	SESW 5 30N 18E	Blackwook 5-14	2	22651	Tiger Ridge	Eagle	08/16/94	1500		110
UMC Petroleum Corp. (Ensource)	SESE 15 31N 18E	Paulsen 15-16	2	22652	Tiger Ridge	Eagle	09/01/94	1600		2100
UMC Petroleum Corp. (Ensource)	NENW 29 31N 18E	Ramberg 29-3	3	22653	Tiger Ridge		08/12/94	1400		
UMC Petroleum Corp. (Ensource)	LT 1 18 30N 19E	Hofeldt 18-4	2	22654	Tiger Ridge	Eagle	08/17/94	1150		140
UMC Petroleum Corp. (Ensource)	SWSE 14 31N 17E	Olson 14-15	3	22655	Tiger Ridge		08/18/94	1600		
UMC Petroleum Corp. (Ensource)	SESE 24 31N 17E	Ramberg 24-16	2	22656	Tiger Ridge	Eagle	09/01/94	1400		270
UMC Petroleum Corp. (Ensource)	SENE 3 30N 17E	U.S. 3-8	3	22657	Tiger Ridge		08/24/94	1600		
UMC Petroleum Corp. (Ensource)	NWSW 25 31N 17E	Olson 25-12	2	22666	Tiger Ridge	Eagle	10/04/94	1400		1212
UMC Petroleum Corp. (Ensource)	SWSW 2 30N 17E	Blackwood 2-13	2	22668	Tiger Ridge	Eagle	11/10/94	1650		1651
UMC Petroleum Corp. (Ensource)	SWSW 2 30N 18E	Hofeldt 2-13	2	22669	Tiger Ridge	Eagle	11/10/94	1300		757
UMC Petroleum Corp. (Ensource)	SESE 22 31N 18E	Roberts 22-16	2	22670	Tiger Ridge	Eagle	10/17/94	1725		75
UMC Petroleum Corp. (Ensource)	SWSE 36 32N 17E	State 36-15	2	22671	Tiger Ridge	Eagle	10/18/94	1500		3149
UMC Petroleum Corp. (Ensource)	SESW 32 32N 18E	Tvedte 32-14	2	22672	Tiger Ridge	Eagle	10/18/94	1550		1966
009 Carbon										
Williston Basin Interstate	SWSE 35 9S 23E	Elk 8-WBI 28 EB	7	21246	Elk Basin	Cloverly	06/06/94	2673		
Williston Basin Interstate	SWSE 35 9S 23E	Elk 8 WBI 27 EB	7	21247	Elk Basin	Cloverly	05/16/94	2657	0	0
Williston Basin Interstate	NESW 35 9S 23E	Elk 9 WBI 29 EB	7	21248	Elk Basin	Cloverly	06/06/94	2900	0	0
011 Carter										
Castle Resources, Inc.	LT 5 41S 62E	Repeat #1	8	21338	Repeat		07/12/94	8725		
015 Chouteau										
Mountain Pacific General, Inc.	SWNE 21 27N 3E	Woods 21 *	3	21668	Hardpan		09/11/94	1054		
Mountain Pacific General, Inc.	SENE 1 27N 3E	Orval Aabak 1-8	6	21667	Wildcat		09/13/94	813		
019 Daniels										
Armstrong Operating, Inc.	SWNW 19 34N 46E	Wilcoxon 19-2	**4	21106	Hell Coulee	Madison	05/20/94	7100	172	28
Armstrong Operating, Inc.	SESE 7 33N 48E	Tribal 7-1	6	21107	Wildcat		08/31/94	6800		
Armstrong Operating, Inc.	SENE 21 33N 48E	Tribal 21-1	6	21108	Wildcat		07/01/94	6800		
Axem Resources Incorporated	SWSW 31 37N 48E	Brayko 1-31	6	21125	Wildcat		11/30/94	6100		
Equitable Resources - Balcron	NENE 15 34N 48E	State 41-15	8	21101	Wildcat		03/12/94	9220	0	0
HS Resources, Inc.	SESW 12 34N 45E	Fladager Fd 15-12	**4	21109	Dutch Henry	Ratcliffe	07/21/94	7890	300	
HS Resources, Inc.	SENE 14 34N 45E	Fladager 8-14	***4	21110	Dutch Henry	Ratcliffe	07/19/94	6950	334	

1994 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL OIL B/D	POTENTIAL GAS MCF/D
HS Resources, Inc.	NWNE 13 34N 45E	Fladager Fed 2-13	**4	21111	Dutch Henry	Ratcliffe	08/25/94	6211	330	
HS Resources, Inc.	SESE 14 34N 45E	State 16-14	**4	21112	Dutch Henry	Ratcliffe	10/01/94	6068	437	
HS Resources, Inc.	NWNW 11 34N 45E	Fladager 4-11	**4	21114	Dutch Henry	McGowan	10/30/94	6440	274	
HS Resources, Inc.	NESE 3 34N 45E	State 9-3	**4	21119	Dutch Henry	McGowan	11/13/94	6350	239	
HS Resources, Inc.	LT 2 3 34N 45E	Continental Land 2-3	6	21118	Wildcat		11/12/94	6335		
HS Resources, Inc.	NWNE 11 34N 45E	HSR State 2-11	6	21121	Wildcat		12/14/94	6465		
Marshall & Winston, Inc.	NWSW 29 33N 51E	Nina Marth 1	6	21116	Wildcat		10/28/94	9607		
Placid Oil Company	SWSE 7 35N 51E	Sawgrass 1	6	21113	Wildcat		09/04/94	9947		
025 Fallon										
Meridian Oil, Inc.	NENE 35 8N 60E	MOI 41-35H	**4	21519	Lookout Butte East	Red River	05/29/94	13348	60	0
Meridian Oil, Inc.	SWNE 5 6N 61E	MOI 32-5H	**4	21520	Lookout Butte East	Red River	06/25/94	12340	51	0
Meridian Oil, Inc.	SWNE 1 6N 60E	MOI 32-1H	**4	21523	Lookout Butte East	Red River	07/29/94	11992	130	0
Meridian Oil, Inc.	SESW 12 7N 60E	Baker 24-12H	**1	21525	Lookout Butte East	Red River	07/09/94	12665	58	0
Meridian Oil, Inc.	SWSW 3 7N 60E	MOI 14-3H	**4	21532	Lookout Butte East	Red River	09/01/94	12448	105	0
Meridian Oil, Inc.	SWNE 17 7N 61E	Ferguson 32-17H	3	21540	Lookout Butte East		11/01/94	9571		
Meridian Oil, Inc.	SWSW 27 8N 60E	MOI 14-27H	8	21518	Wildcat	Red River	04/01/94	13334		
Shell Western E & P Inc.	NWSW 3 9N 58E	Unit 13X-3H	1	21524	Cabin Creek	Red River	12/29/94	12059	218	74
Shell Western E & P Inc.	NENE 10 9N 58E	Unit 41-10H	1	21526	Cabin Creek	Red River	10/12/94	12264	470	67
Shell Western E & P Inc.	NWNE 29 5N 61E	Unit 31-29H	1	21430	Little Beaver	Red River	12/21/94	11250	65	12
Shell Western E & P Inc.	SESE 15 6N 60E	Coral Creek 44X-15H	1	21517	Lookout Butte	Red River	06/30/94	11360	170	75
Shell Western E & P Inc.	SESW 27 7N 60E	Unit 24X-27BH	1	21534	Lookout Butte	Red River	12/21/94	12295	124	49
Shell Western E & P Inc.	SENE 20 7N 60E	Unit 42X-20H	**4	21522	Lookout Butte East	Red River	09/16/94	12516	414	0
Shell Western E & P Inc.	NWSW 36 9N 58E	Monarch 13-36H	1	21521	Monarch	Red River	08/11/94	11215	278	36
Shell Western E & P Inc.	SESW 26 7N 60E	Unit 24-26B ReEntry	1	05181	Pennel	Red River	10/19/94	12337	81	45
Shell Western E & P Inc.	NWSE 12 8N 59E	Unit 33-12H	1	21259	Pennel	Red River	08/17/94	11647	153	49
Shell Western E & P Inc.	NENW 10 8N 59E	Pennel Unit 21X-10H	1	21516	Pennel	Red River	05/21/94	12448	62	22
Williston Basin Interstate	NWSE 23 6N 60E	WBI 453 BN	2	21529	Cedar Creek	Eagle	10/11/94	1920		614
Williston Basin Interstate	SENW 10 8N 59E	WBI 452 Federal	2	21530	Cedar Creek	Eagle	10/12/94	1875		310
Williston Basin Interstate	SENW 4 8N 59E	WBI 451 Federal	2	21531	Cedar Creek	Eagle	10/12/94	1860		2000
033 Garfield										
Meridian Oil, Inc.	SESW 27 13N 33E	Breed Creek 24-27	**4	21143	Breed Creek	Tyler	02/04/94	5054	14	0
035 Glacier										
Bacon, J. R., Drilling, Inc.	NWSE 32 32N 5W	102-15	1	21905	Cut Bank	Cut Bank	10/06/94	2965	10	0
Conwest Exploration Co., LTD.	NENE 9 37N 13W	Blackfeet #1	6	21901	Wildcat		09/23/94	8169		
FX Drilling Co., Inc.	LT 8 20 32N 5W	Willis 62-7	1	21902	Cut Bank	Cut Bank	11/11/94	2602	15	
Montana Power Company	NWSW 12 35N 5W	Thomas 12-12	2	21889	Cut Bank	Bow Island	05/09/94	1884		220
Montana Power Company	SWNW 16 35N 5W	State 5-16	3	21890	Cut Bank		05/18/94	2938		
Montana Power Company	SENE 20 35N 5W	Haines 8-20	3	21891	Cut Bank		05/15/94	2756		
Montana Power Company	NWSE 27 35N 5W	Pioneer 10-27	2	21892	Cut Bank	Cut Bank	05/06/94	2722		50
Northland Royalty Operating Co	NENW 25 36N 6W	Stufft 3-25	2	21858	Little Rock	Lander	08/25/94	2995	0	245
Summit Resources, Inc.	SESE 2 37N 5W	Red Creek 16A-2	1	21888	Red Creek	Madison	02/07/94	4891	100	0
Summit Resources, Inc.	SESE 2 37N 5W	Red Creek 16A2-2	1	21893	Red Creek	Madison	02/27/94	5114	150	
Summit Resources, Inc.	NENE 11 37N 5W	Red Creek 1C-11	1	21896	Red Creek	Madison	03/18/94	4744	125	
Summit Resources, Inc.	SESW 2 37N 5W	Red Creek 14D2/11A2	1	21897	Red Creek	Madison	05/06/94	4845	150	
Summit Resources, Inc.	SESE 2 37N 5W	Red Creek 16C2/9B2	1	21898	Red Creek	Madison	04/02/94	5421	150	
Summit Resources, Inc.	SWNE 11 37N 5W	Red Creek 7A11/3D11	1	21899	Red Creek	Cut Bank	04/21/94	4932	80	
Summit Resources, Inc.	SWSW 2 37N 5W	Red Creek 13D-2	1	21907	Red Creek	Cut Bank	11/08/94	2919	10	
Summit Resources, Inc.	NWNE 11 37N 5W	Red Creek 2C-11	1	21908	Red Creek	Cut Bank	11/14/94	2910	5	
041 Hill										
Brown, J. Burns Operating Co.	SENW 20 34N 15E	State 20-34-15	6	22509	Browns Coulee, East		05/11/94	1530	0	0
Brown, J. Burns Operating Co.	NWSE 7 34N 16E	James 7-34-16B	6	22504	Wildcat		02/02/94	1505	0	0
Brown, J. Burns Operating Co.	SWNW 1 34N 16E	Thiel 1-34-16B	6	22506	Wildcat		04/01/94	1450	0	0

1994 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
									OIL B/D	GAS MCF/D
Brown, J. Burns Operating Co.	SWNE 24 35N 14E	Slyter 24-35-14	6	22510	Wildcat		04/29/94	1650		
Brown, J. Burns Operating Co.	NWNE 15 35N 16E	Schafer 15-35-16	5	22511	Wildcat	Eagle	04/20/94	1650		
Brown, J. Burns Operating Co.	SWNW 3 34N 15E	Knudson 3-34-15	6	22512	Wildcat		04/23/94	1609		
Brown, J. Burns Operating Co.	SWNE 21 35N 17E	Headrick 21-35-17	6	22513	Wildcat		04/11/94	1600		
G/S Producing Inc.	NENE 10 33N 9E	Bradbury 14-10	2	22507	Rudyard	Eagle	01/01/94	790	0	22
G/S Producing Inc.	NW 11 33N 9E	Jackson-Berge 11-11	5	22508	Rudyard Eagle	Eagle	01/03/94	903	0	522
Hollywood Petroleum,inc.	E2NE 28 35N 13E	State 1-28	5	22534	Wildcat	Second White Specks	09/16/94	2246		20
Hollywood Petroleum,inc.	CNW 29 35N 13E	Staples 1-29	6	22535	Wildcat		08/02/94	2205		
Hollywood Petroleum,inc.	CSW 16 35N 13E	State 1-16	5	22536	Wildcat	Second White Specks	09/16/94	2351		
Intermountain Leasing, Inc.	NENE 15 33N 9E	LeTang 11-15	3	22545	Rudyard Eagle		10/06/94	873		
UMC Petroleum Corp. (Ensource)	SENE 20 30N 15E	Chippewa Creek 20-8	2	22515	Tiger Ridge	Eagle	09/27/94	1700		247
UMC Petroleum Corp. (Ensource)	SESW 34 31N 17E	Cremer 34-14	1	22516	Tiger Ridge	Eagle	09/02/94	1600		1550
UMC Petroleum Corp. (Ensource)	NESE 27 32N 15E	Erhard 27-9	2	22517	Tiger Ridge	Eagle	07/19/94	1300		5
UMC Petroleum Corp. (Ensource)	SENE 21 30N 15E	Boyce 21-6	2	22518	Tiger Ridge	Eagle	07/20/94	1800		1400
UMC Petroleum Corp. (Ensource)	SENE 21 30N 15E	Boyce 21-8	2	22519	Tiger Ridge	Eagle	07/20/94	1700		188
UMC Petroleum Corp. (Ensource)	NWSE 6 30N 16E	Faber 6-10	2	22520	Tiger Ridge	Eagle	07/19/94	1550		450
UMC Petroleum Corp. (Ensource)	SESE 19 31N 16E	Armstrong 19-16	2	22521	Tiger Ridge	Eagle	07/19/94	1700		320
UMC Petroleum Corp. (Ensource)	NESE 29 31N 16E	Tautges 29-9	3	22522	Tiger Ridge		07/07/94	1325		
UMC Petroleum Corp. (Ensource)	SENE 19 31N 16E	Gregoire 19-6	3	22523	Tiger Ridge		06/30/94	1600		
UMC Petroleum Corp. (Ensource)	SWSE 16 31N 17E	State 16-15	2	22524	Tiger Ridge	Judith River	09/02/94	1650		43
UMC Petroleum Corp. (Ensource)	NENW 27 30N 15E	Boyce 27-3	2	22525	Tiger Ridge	Eagle	08/01/94	1900		1327
UMC Petroleum Corp. (Ensource)	SWSW 4 30N 15E	Herron 4-13	2	22526	Tiger Ridge	Eagle	07/21/94	1450		28
UMC Petroleum Corp. (Ensource)	NESW 6 30N 15E	Brown 6-11	3	22527	Tiger Ridge		07/23/94	1350		
UMC Petroleum Corp. (Ensource)	NENE 8 30N 15E	Herron 8-1	2	22528	Tiger Ridge	Eagle	08/03/94	1400		20
UMC Petroleum Corp. (Ensource)	NWSE 13 31N 14E	King 13-10	2	22529	Tiger Ridge	Eagle	08/03/94	1200		6502
UMC Petroleum Corp. (Ensource)	SWSW 17 31N 15E	Neuwerth 17-13	2	22530	Tiger Ridge	Eagle	08/15/94	1400		1000
UMC Petroleum Corp. (Ensource)	SWNW 23 30N 15E	Chippewa Cree 23-5	3	22531	Tiger Ridge		09/04/94	1900		
UMC Petroleum Corp. (Ensource)	NENE 17 31N 15E	Neuwerth 17-1	2	22532	Tiger Ridge	Eagle	08/15/94	1450		1670
UMC Petroleum Corp. (Ensource)	LT 4 2 30N 15E	Hegle 2-4	2	22537	Tiger Ridge	Eagle	09/27/94	1625		218
UMC Petroleum Corp. (Ensource)	NWSW 6 30N 16E	Chippewa Cree 6-12	2	22538	Tiger Ridge	Eagle	11/11/94	1650		359
UMC Petroleum Corp. (Ensource)	SESE 24 31N 14E	Berger 24-16	2	22539	Tiger Ridge	Eagle	10/03/94	1250		698
UMC Petroleum Corp. (Ensource)	SWNW 10 31N 15E	Beck 10-5	2	22540	Tiger Ridge	Eagle	09/27/94	1450		491
UMC Petroleum Corp. (Ensource)	SESW 13 31N 15E	Gregoire 13-14	3	22541	Tiger Ridge		09/08/94	1400		
UMC Petroleum Corp. (Ensource)	NESE 32 31N 15E	Hallgren 32-9	3	22542	Tiger Ridge		09/17/94	1200		
UMC Petroleum Corp. (Ensource)	SWSE 33 31N 15E	Herron 33-15	3	22543	Tiger Ridge		09/13/94	1350		
UMC Petroleum Corp. (Ensource)	NWNE 22 31N 17E	Olson 22-2	2	22544	Tiger Ridge Eagle		10/04/94	1625		5936
UMC Petroleum Corp. (Ensource)	SWNW 26 30N 15E	Nystrom 26-5	2	22547	Tiger Ridge Eagle		11/10/94	2227		20

051 Liberty

Branch Oil & Gas	NESW 20 36N 4E	Branch 11-20	2	21687	Middle Butte	Bow Island	10/14/93	1840	0	80
Branch Oil and Gas	N2N2 29 36N 4E	Beaudoin 2-29	3	21690	Haystack Butte, West		11/15/94	2013		
FX Drilling Co., Inc.	SESE 7 36N 6E	Lange 3-4	1	21688	Bears Den	Swift	08/25/94	2500	30	
FX Drilling Co., Inc.	NWSE 7 36N 6E	Lange 3-5	8	21689	Bears Den		09/29/94	2684		

065 Musselshell

Ballard and Associates, Inc.	SWNW 35 9N 23E	Van Arsdale12-35	6	21816	Wildcat		06/21/94	2903	0	0
Beartooth Oil & Gas Company	NESW 30 10N 27E	Lackey #2	6	21813	Wildcat		01/12/94	3788	0	0
Cline Production Company	NESE 31 11N 31E	Unit #12	3	21820	Keg Coulee		11/05/94	4630		
Hydra Inc.	SENE 6 11N 24E	Federal 2	7	21808	Devils Basin		09/12/93	1545	0	0
Macum Energy Inc.	NESE 21 10N 30E	Hougen 43-21	6	21818	Wildcat		04/10/94	5045		

071 Phillips

Samedan Oil Corporation	SWSE 5 34N 32E	0542-4	2	22256	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1515		256
Samedan Oil Corporation	SWNE 8 34N 32E	0842-4	2	22257	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1510		298
Samedan Oil Corporation	SENE 15 35N 31E	1551-3	2	22258	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1430		167
Samedan Oil Corporation	NESW 2 33N 31E	0231-4	2	22259	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1510		103

1994 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL OIL B/D	POTENTIAL GAS MCF/D
Samedan Oil Corporation	NESW 17 33N 32E	1732-4	2	22262	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1347		218
Samedan Oil Corporation	SWNE 5 34N 32E	0542-3	2	22263	Bowdoin & Area	Greenhorn/Phillips	10/12/94	1495		256
Williston Basin Interstate	SWNE 3 32N 32E	WBI 979 Federal	2	22264	Bowdoin & Area	Phillips	09/08/94	1200		2250
Williston Basin Interstate	SWSW 7 32N 32E	WBI 980 Federal	2	22265	Bowdoin & Area	Phillips	09/08/94	1200		2070
Williston Basin Interstate	NESE 30 32N 32E	WBI 982 Federal	2	22266	Bowdoin & Area	Phillips	09/09/94	1200		838
Williston Basin Interstate	SENW 27 33N 32E	WBI 972 Federal	2	22267	Bowdoin & Area	Phillips	09/06/94	1280		530
Williston Basin Interstate	NWSE 32 33N 32E	WBI 973 Federal	2	22268	Bowdoin & Area	Phillips	09/07/94	1280		2040
Williston Basin Interstate	SWNE 33 33N 32E	WBI 974 Federal	2	22269	Bowdoin & Area	Phillips	09/06/94	1267		1740
Williston Basin Interstate	NWSE 11 31N 32E	WBI 983 Fee	2	22270	Bowdoin & Area	Phillips	09/09/94	1200		1300
Williston Basin Interstate	SESW 19 32N 32E	WBI 981 Federal	2	22271	Bowdoin & Area	Phillips	09/08/94	1230		1040
Williston Basin Interstate	NENW 35 33N 32E	WBI 976 Fee	2	22272	Bowdoin & Area	Phillips	09/07/94	1204		1440
Williston Basin Interstate	SWNW 36 33N 32E	WBI 978 State	2	22273	Bowdoin & Area	Phillips	09/07/94	1200		2250
073 Pondera										
Bacon, J. R., Drilling, Inc.	LT 3 1 31N 6W	#107-2	1	21758	Cut Bank	Cut Bank	09/10/94	3175	40	
Somont Oil Company, Inc.	SWSW 1 26N 2E	Seidler Ranch 1-13	6	21759	Wildcat		09/08/94	1203		
Somont Oil Company, Inc.	NWSE 20 26N 2E	Hemstad 20-10	5	21760	Wildcat	Bow Island	10/28/94	1010		250
083 Richland										
Genex, Inc.	NENE 33 24N 57E	Albin 1-33 ReEntry	4	21280	Mustang (Bakken)	Bakken	01/20/94	10565	58	0
EP Operating Ltd Partnership	NWSW 11 22N 57E	Renken 11-12H	**4	21812	Hawk Haven	Mission Canyon	01/25/94	11550	242	25
Falcon Oil & Gas Company, Inc.	SWSW 23 26N 59E	Niles 1-23 ReEntry	**4	21701	Nohly	Madison	01/24/94	10534	137	20
Falcon Oil & Gas Company, Inc.	SENW 34 26N 59E	Kittleson 22-34 ReEn	4	21783	Nohly	Madison	01/27/94	10850	38	15
085 Roosevelt										
Apache Corp.	NESW 34 29N 57E	Olson 11-34ReEntry	6	21479	Wildcat		01/05/94	12430	0	0
JN Exploration & Production	CSW 4 29N 49E	Clark 14-4 SWD	7	21584	Palomino	Dakota	01/27/94	4050	0	0
JN Exploration & Production	NESE 7 27N 58E	Harmon 43-7	6	21587	Wildcat		01/20/94	10620	0	0
JN Exploration & Production	SWSE 7 27N 58E	JN Harmon 34X-7	6	21588	Wildcat		08/02/94	10550		
Missouri River Royalty Corp.	NESW 13 30N 57E	Jacobsen #3 ReEntry	1	21291	Shotgun Creek, North	Mission Canyon	08/20/94	12390	3	
Panterra Petroleum	SWNE 10 28N 58E	Bob Crusch 2-10	1	21590	Bainville, North	Red River	09/17/94	12673	259	162
Placid Oil Company	NWNE 25 31N 47E	Tribal 2-25	3	21582	Benrud, East		12/14/93	7750	0	0
Placid Oil Company	NESE 27 31N 48E	POC Hawbaker 9-27	6	21591	Wildcat		09/26/94	7796		
Placid Oil Company	SENE 33 28N 59E	Eldorado 1	6	21592	Wildcat		09/28/94	12800		
087 Rosebud										
Florentine Exploration & Prod.	NWNE 31 12N 33E	Infinity St. 31-2	**4	21635	Rattler Butte	Tyler	10/09/94	5643	232	
Huckabay, E Doyle Ltd	NWSW 33 12N 32E	Grebe 5-33	6	21636	Wildcat		10/10/94	5426		
091 Sheridan										
Continental Resources Inc	NWNE 14 37N 56E	Brandon 1-14	6	21673	Wildcat		05/30/94	6650	0	0
Equitable Resources - Balcron	NWSE 27 36N 52E	Loucks 33-27	***4	21676	Outlook, Southwest (Red River)	Red River	06/30/94	9850	190	
Meridian Oil, Inc.	NENE 23 34N 58E	Haaven 41-23	**4	21675	Divide	Red River	05/26/94	11450	411	200
Summit Resources, Inc.	SWNW 13 31N 58E	Glein Brush Mtn 5-136		21680	Wildcat		07/31/94	8700		
Texaco Exploration And Prod.	NESE 28 33N 56E	Williams 1	1	21681	Reserve	Red River	09/30/94	11310	672	381
Wyoming Resources Corporation	NESW 23 36N 52E	Outlook 1-23	**4	21678	Outlook, West	Winnipegosis	07/13/94	9080	89	7
095 Stillwater										
Lockridge, John P	NWNE 10 3N 20E	Hines 1-10	6	21248	Wildcat		12/22/94	1140		
101 Toole										
Basin Operating Company	NWNE 30 34N 1W	Moffat 4A	2	23558	Prairie Dell	Madison	10/13/92	1358	0	970
Branch Oil and Gas	NWSW 34 34N 3W	Flesch 12-34	2	23671	Kevin Southwest	Bow Island/Dakota	05/27/94	1384		86
Brown, J. Burns Operating Co.	SWSW 27 34N 4W	Steyee 27-34-4B	**5	23638	Ethridge, North	Bow Island	05/13/94	1075	0	216
Brown, J. Burns Operating Co.	NENE 9 34N 1E	O'Brien 9-34-1	8	23555	Kevin Sunburst	Nisku	03/01/93	3050	0	0

1994 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL OIL B/D	POTENTIAL GAS MCF/D
Brown, J. Burns Operating Co.	SWSW 22 34N 4W	Roegner 22-34-4	3	23657	Kevin Sunburst		05/03/94	1142		
Brown, J. Burns Operating Co.	NWNE 9 34N 1E	O'Brien 9-34-1B	1	23593	Kevin, East Nisku Oil	Nisku	05/18/94	3042	10	50
Brown, J. Burns Operating Co.	SWNW 14 36N 1E	VanDerhoff 14-36-1	3	23665	Kicking Horse		06/19/94	2675		
Brown, J. Burns Operating Co.	NWNE 8 33N 3W	State 8-33-3	6	23610	Wildcat		10/15/93	1557	0	0
Coolidge, G. B., Inc.	SWNE 16 35N 1W	State #1	3	23656	Kevin Sunburst		06/02/94	3122		
Coolidge, G. B., Inc.	SWNE 16 35N 1W	State 1X	3	23700	Kevin Sunburst		08/12/94	1130		
Croft Petroleum Company	NESW 35 35N 2E	State 11-35	6	23664	Wildcat		06/10/94	2050		
Hallwood Petroleum, inc.	SWNW 31 35N 1E	Wiegand 3-31	1	23666	Kevin, East Nisku Oil	Nisku	10/07/94	3055	40	
Hallwood Petroleum, inc.	NESE 31 35N 1E	Wiegand 4-31	1	23667	Kevin, East Nisku Oil	Nisku	10/06/94	3093	15	
Hallwood Petroleum, inc.	SWSW 32 35N 1E	Wiegand 1-32	1	23668	Kevin, East Nisku Oil	Nisku	10/06/94	3096	30	
Hallwood Petroleum, inc.	SWNE 36 35N 1W	State 2-36	1	23669	Kevin, East Nisku Oil	Nisku	10/07/94	3035	18	
Hallwood Petroleum, inc.	NENW 36 35N 1W	State 3-36	3	23670	Kevin, East Nisku Oil		06/21/94	3060		
Kee Sun Corporation	NESW 4 33N 1W	Restana 11B-4 MPC	3	23691	Old Shelby		07/29/94	1160		
Montana Power Company	SENE 30 37N 4W	State 8-30	2	23698	Cut Bank	Moulton	08/22/94	2662		2300
Montana Power Company	SENE 28 33N 1W	Wilkins-Marmont 8-28	2	23661	Old Shelby	Swift	10/07/94	1320		200
Montana Power Company	NENW 17 32N 1W	Fee 3-17	3	23703	Old Shelby		10/27/94	1477		
Montana Power Company	LT2 31 33N 1W	Lieberg 5-31	2	23704	Old Shelby	Swift/Sunburst	10/25/94	1430		328
Montana Power Company	NESE 36 33N 2W	State 9-36	6	23707	Wildcat		10/21/94	1520		
Rimrock Oil Company	NENW 19 34N 2W	Rimrock Fee #2	3	23553	Kevin Sunburst		09/20/93	975	0	0
Sands Oil Company	NWSE 33 34N 4W	MPC/Uncol 10-33RD	2	23690	Ethridge, North	Bow Island	06/17/94	1135		101
Sands Oil Company	NENE 14 37N 2E	Federal 41-14	3	23649	Fred & George Creek		12/12/93	2800	0	0
Sands Oil Company	SWSE 11 37N 2E	Federal 34-11	**4	23650	Fred & George Creek	Sunburst	12/05/93	2781	8	0
Somont Oil Company, Inc.	NWSW 5 34N 4W	Kline 5-12	2	23701	Cut Bank	Cut Bank	10/26/94	2135		22
Somont Oil Company, Inc.	NENW 25 35N 4W	Clapper 25-3	3	23702	Kevin Sunburst		09/04/94	1774		
Somont Oil Company, Inc.	LT 3 2 35N 4W	South Jacobson 2-3	2	23706	Kevin Sunburst	Bow Island/Sunburst	11/03/94	2621		150
Somont Oil Company, Inc.	SWSE 18 35N 3W	Hedges Federal 18-15	2	23710	Kevin Sunburst	Swift	11/27/94	2290		144
Spectrum Energy, Inc.	NWSE 28 33N 1W	Hayes 3-28	2	23672	Old Shelby	Swift	10/12/94	1387		385
Spectrum Energy, Inc.	NESW 31 33N 1W	Sherman 2-31	3	23673	Old Shelby		07/22/94	1481		
Spectrum Energy, Inc.	E2NE 29 33N 1W	Parker 3-29	2	23676	Old Shelby	Sunburst	07/13/94	1241		259
Spectrum Energy, Inc.	NWNE 11 33N 1W	Simms 1-11	2	23677	Old Shelby	Bow Island	06/07/94	766		68
Spectrum Energy, Inc.	NWNE 33 34N 1W	Ziegler 2-33	2	23678	Old Shelby	Swift	06/10/94	1299		41
Spectrum Energy, Inc.	SENE 28 33N 1W	Hayes 2-28	2	23679	Old Shelby	Swift	07/26/94	1375		1166
Spectrum Energy, Inc.	SWSW 29 33N 1W	Parker 4-29	2	23680	Old Shelby	Swift	07/16/94	1400		50
Spectrum Energy, Inc.	NWNW 35 33N 1W	Hurley 6-35	2	23681	Old Shelby	Swift	06/15/94	1339		108
Spectrum Energy, Inc.	NESE 30 33N 1W	Berg 3-30	2	23683	Old Shelby	Swift	07/19/94	1412		214
Spectrum Energy, Inc.	NWNE 33 34N 1W	Ziegler 2T-33	2	23694	Old Shelby	Sunburst	06/13/94	1181		319
Spectrum Energy, Inc.	SENE 28 33N 1W	Hayes 2T-28	2	23697	Old Shelby	Sunburst	07/10/94	1207		227
Spectrum Energy, Inc.	NENE 29 33N 1W	Parker 3T-29	2	23705	Old Shelby	Swift	10/23/94	1379		180
Spectrum Energy, Inc.	SESW 1 34N 2E	Peterschick 1-1	6	23655	Wildcat		03/26/94	1995		
Spectrum Energy, Inc.	CSW 3 33N 3E	Leck 2-3	6	23709	Wildcat		12/02/94	1136		

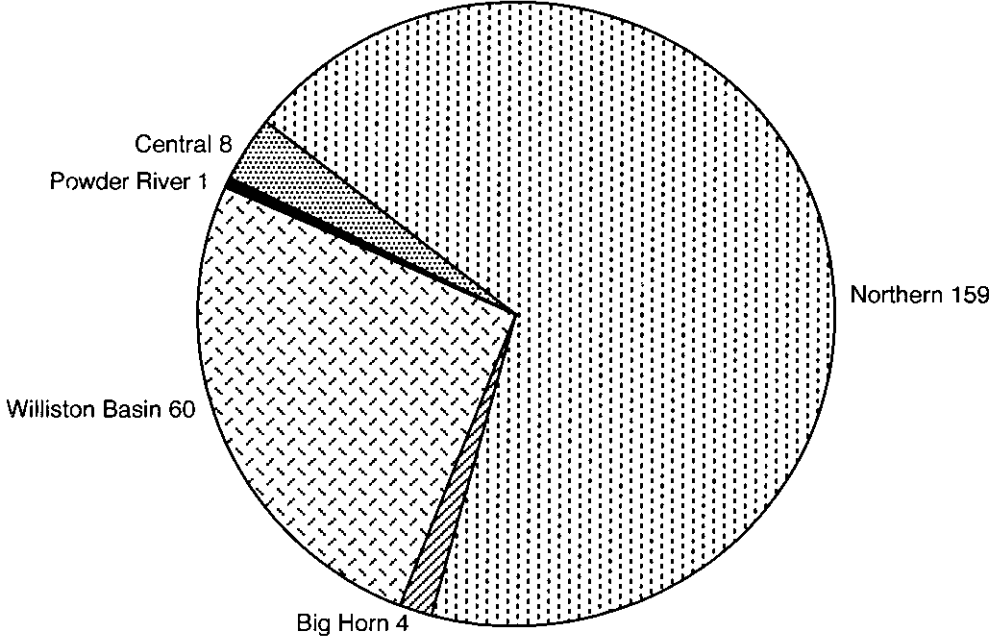
105 Valley

Continental Resources Inc	SWNE 15 30N 45E	Ruggles 1-15	1	21420	Midfork	Charles	07/02/94	5950	50	15
Continental Resources Inc	NESW 15 30N 45E	J.R. 1-15	**4	21423	Midfork	Charles C	10/15/94	5970	100	30
Continental Resources Inc	SWNW 15 30N 45E	Susie 1-15	6	21424	Midfork		12/22/94	6025		
Continental Resources Inc	SWSW 15 30N 45E	Suzanne 1-15	1	21426	Midfork	Charles C	12/26/94	5970	160	20
Continental Resources Inc	NWNW 14 30N 45E	Redekopp 1-14	6	21419	Wildcat		07/10/94	5950		
EOG (New Mexico) Inc.	NWNE 33 30N 45E	Lefthand 1-33 ReEnty	6	21330	Wildcat		12/09/94	6900		
Xeno Inc	NESW 5 35N 35E	Northmont 11-5	8	21421	Wildcat	Eagle	08/04/94	1850		

Status Codes:

1 - Development Oil	* New Pay Zones
2 - Development Gas	** Extenseons
3 - Development Dry	*** New Discovery
4 - Exploratory Oil	
5 - Exploratory Gss	
6 - Exploratory Dry	
7 - Service Well	
8 - Other/Temp. Aband.	

**Wells Completed In 1994
232 Wells – By Region**



1994 SUMMARY OF SECONDARY RECOVERY PROJECTS

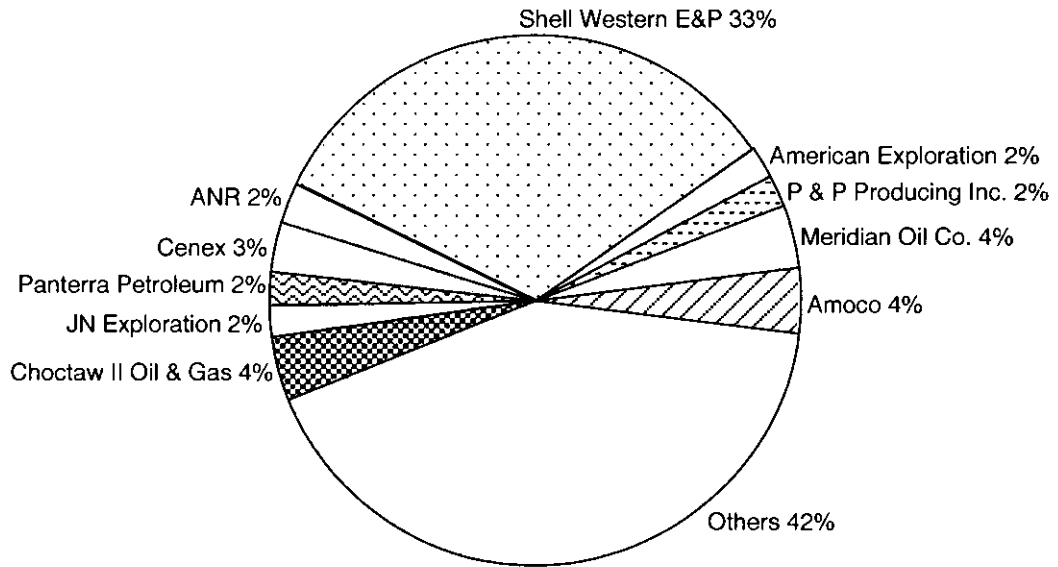
Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1994	Avg. Daily Injection Rate BBLs or MCF	No. of Injection Wells	Source of Injection Media and Remarks
						Cumulative Injections MBBLS or MCF			
Ash Creek Crow Tribal	Shannon	Mobil	Waterflood	Peripheral	10/64	256	-	-	Idle
Ash Creek Sand Unit MT	Shannon	DNR Oil & Gas Inc.	Waterflood	Peripheral	10/64	1362	22	1	WSW and produced
Bears Den	Liberty	FX Drilling Co., Inc.	Waterflood	Random	11/90	956	548	4	WSW/Produced
Bell Creek Consolidated	Muddy	Exxon Corporation	Waterflood	5 Spot	*4/70	526615	1827	7	Produced *Consolidated 1/92
Bell Creek, South	Muddy	Exxon Corporation	Waterflood	Peripheral	2/91	901	84	1	Produced
Big Wall BWLTSU	Lower Tyler	Texaco E&P Inc.	Waterflood	Random	10/84	28527	5906	3	Produced
Big Wall BWUTSU	Upper Tyler	Texaco	Waterflood	Random	8/66	42866	2828	1	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	4034*	603	4	Madison
Border, New	Cut Bank	P&M Petroleum	Waterflood	Random	1/82	-	-	-	Idle
Border, Old	Cut Bank	Gypsy Highview System	Waterflood	Random	6/73	1858*	204	1	Cut Bank
Breed Creek	Tyler	True Oil Co.	Waterflood	Random	11/92	515	1061	1	NA
Cabin Creek	Siluro-Ord.	Shell Western E&P	Waterflood	Semi-Perip	6/59	363363*	21515	25	Produced
Cat Creek East Dome	Ellis Sand	Robert Hoss	Waterflood	Semi-Perip	7/70	1607	126	3	Third Cat Creek
Cat Creek Mosby	Amsden	Cenex	Waterflood	Random	6/71	-	313	-	Idle
Cat Creek Mosby Dome	Swift	Cenex	Waterflood	Random	7/67	6860*	234	2	Third Cat Creek
Cat Creek Unit 1	1st Cat	Cenex	Waterflood	Semi-Perip	10/62	8623	525	1	Third Cat Creek
Cat Creek Unit 1	2nd Cat	Cenex	Waterflood	Semi-Perip	10/62	13062	1139	2	Third Cat Creek
Cat Creek Unit 2	1st Cat	Cenex	Waterflood	Semi-Perip	12/59	10011	131	2	Third Cat Creek
Cat Creek Unit 2	2nd Cat	Cenex	Waterflood	Semi-Perip	12/59	14316	816	3	Third Cat Creek
Cut Bank 2 Medicine	Madison	Montana Mill Oper.	Waterflood	Random	12/67	58499*	-	-	Idle
Cut Bank Airport Unit	Madison	Union Oil of Calif.	Waterflood		6/93	291	500	1	Madison
Cut Bank Dahlquist	Cut Bank	Bluejay Resources	Waterflood	Random	11/79	671	170	1	Madison
Cut Bank Lander A	Lander Sand	Quest Petroleum Corp.	Waterflood	Random	4/65	2115	-	-	Idle
Cut Bank Marina	Cut Bank	P&M Petroleum	Waterflood	5 Spot	6/72	2075	-	-	Idle
Cut Bank No. East	Cut Bank	J and G Operating	Waterflood	5 Spot	6/63	13409	-	-	Idle
Cut Bank No. West	Cut Bank	Quest Petroleum Corp.	Waterflood	5 Spot	1/62	19794*	-	-	Idle
Cut Bank No. Central	Cut Bank	Gypsy Highview	Waterflood	5 Spot	5/78	5757	-	-	Idle
Cut Bank Rieckhoff	Cut Bank	FX Drilling Co.	Waterflood	Random	1983	1887	747	5	Madison and recycled
Cut Bank So. Central	Cut Bank	Union Oil	Waterflood	5 Spot	5/63	71490	2875	21	Madison
Cut Bank So. West	Cut Bank	FX Drilling Co., Inc.	Waterflood	5 Spot	9/62	145609	6990	31	Madison/Recycle
Cut Bank Tesoro	Cut Bank	City Oil Co.	Waterflood	5 Spot	9/71	6759	-	-	Madison/Recycle
Cut Bank Tweedy	Cut Bank	Gypsy Highview	Waterflood	5 Spot	6/72	981*	34	1	Cut Bank
Darling	Cut Bank	Buttes Resources	Waterflood	Random	2/67	-	-	-	Idle
Darling North Unit	Moulton	Buttes Resources	Waterflood	Random	2/68	2472	-	-	Idle
Darling South Unit	Moulton	Buttes Resources	Waterflood	Random	2/67	7548	-	-	Idle
Dean Dome	Greybull	Eastern American	Steam Inj	Cyclic	8/81	29	-	-	Idle
Dwyer	Charles	Samedan Oil Corp.	Waterflood	Peripheral	10/68	2610*	243	3	Dwyer/Charles
Elk Basin	Frontier	Amoco	Waterflood	Crestal	12/72	6039	-	-	Idle
Elk Basin	Madison	Amoco Production Co.	Waterflood	Semi-Perip	8/61	129818*	8126	13	Produced
Elk Basin NW	Madison	Amoco	Waterflood	Semi-Perip	12/88	3188	2145	1	Produced
Elk Basin NW	Tensleep	Amoco	Waterflood	Semi-Perip	1/67	5918	-	-	Idle
Elk Basin Unit	Tensleep	Amoco	Waterflood	Semi-Perip	4/67	2431	-	-	Idle
Fairview	Red River	Mepna, Inc.	Pressure M	Random	5/70	4186	-	-	Idle
Flat Coulee	Swift	Breck Operating Corp	Waterflood	Peripheral	2/72	18141	2645	12	Eagle & Produced
Flat Lake Unit	Ratcliffe	P & P Producing Inc.	Pressure M	Random	6/71	47536	4405	14	Produced
Flat Lake West	Ratcliffe	American Exploration	Pressure M	Random	11/74	8856	681	2	Produced
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	23131*	-	-	Idle
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	526846*	-	-	Montana project P&A'd
Fred & George Creek	Sunburst "A"	William M. Fulton	Waterflood	Random	7/76	61457	4419	2	Madison/Eagle
Gas City	Red River	Home-Stake Royalty Co	Waterflood	Semi-Perip	10/69	17771	894	3	Mission Canyon
Goose Lake	Ratcliffe	Forcenergy Gas Explor	Waterflood	Semi-Perip	1/73	30231	2921	2	Produced
Graben Coulee	Cut Bank	Monte Grande Explor.	Waterflood	Random	7/83	735*	0	-	Converted to disposal
Gumbo Ridge	Tyler B	Cline Production Co.	Waterflood	Semi-Perip	6/80	3061	58	1	Produced
Highview	Madison	Mountain States Res.	Waterflood	Random	12/91	131	157	1	Madison (Converted from CO2)
Ivanhoe	Tyler	Tomahawk Oil Co.	Pressure M	Random	5/64	397	189	1	Produced
Jim Coulee	Tyler	Beartooth Oil & Gas	Waterflood	Semi-Perip	7/72	27027*	2255	3	Produced Cat Creek
Keg Coulee NW Unit	Tyler	No. Central Oil Corp.	Waterflood	Semi-Perip	3/64	6385*	172	1	Madison
Keg Coulee Tyler Unit	Tyler	Cline Production Co.	Waterflood	Semi-Perip	12/69	3615	177	1	Active 1 mo. Keg
Coulee Unit	Tyler	Central Resources Inc.	Waterflood	Semi-Perip	8/66	6988	366	1	Produced
Kelley	Tyler B	Grand Resources, Ltd.	Waterflood	Random	7/69	4849*	212	1	Produced
Kevin Homestake SU	Sunburst	Natural Gas Process.	Waterflood	Random	8/64	8827*	768	6	Madison & Produced
Kevin Sunburst SU	Sunburst	Basin Operating Co.	Waterflood	Random	8/64	13108	-	-	Idle

1994 SUMMARY OF SECONDARY RECOVERY PROJECTS (CONTINUED)

Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1994	Avg. Daily	No. of Injection Wells	Source of Injection Media and Remarks
						Cumulative Injections MBBLS or MMCF	Injection Rate BBLs or MCF		
Kincheloe Ranch	Tyler A	E. Doyle Huckabay	Waterflood	Random	11/89	1657	847	2	Third Cat Creek
Kincheloe Ranch, West	Tyler "A"	E. Doyle Huckabay Ltd	KR Tyler SU	Random	02/92	111	108	1	Third Cat Creek
Laird Creek	Swift	Natural Gas Proc.	Waterflood	Semi-Perip	2/77	807	-	-	Idle
Little Beaver	Red River	Shell Western E&P	Waterflood	Semi-Perip	8/66	57885*	3196	9	Produced
Little Beaver East	Red River	Shell Western E&P	Waterflood	Semi-Perip	4/65	25607*	1566	5	Produced
Little Wall - Hamilton	Tyler	Beartooth Oil & Gas	Waterflood	Random	07/92	37	-	-	Idle
Little Wall - Weisner	Tyler	Beartooth Oil & Gas	Waterflood	Random	01/92	242	213	1	Produced
Little Wall Creek	Tyler	Texaco E & P Inc.	Waterflood	Random	1984	977	282	2	Produced
Little Wall S - Unit	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/83	16347	2631	3	Produced
Little Wall S Gunderson	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/87	1308	655	1	Produced
Lookout Butte Coral Ck.	Red River	Shell Western E&P	Waterflood	Semi-Perip	4/67	65490*	5986	12	Minnelusa
Lookout Butte East	Red River B	Meridian Oil Inc.	Waterflood	Pilot	7/88	321	262	2	Produced
Mason Lake	1st Cat Creek	Nielco, Inc.	Waterflood	Unknown	11/88	472	-	-	Idle
Melstone North	Tyler	True Oil Co.	Waterflood	Unknown	1/83	7728	1772	3	3rd Cat Creek
Monarch	Siluro/Ord	Shell Western E&P	Waterflood	Unknown	12/73	7300	298	2	
Pennel	Siluro/Ord	Shell Western E&P	Waterflood	Random	8/69	270429*	50340	82	Dakota & Produced
Pine A	Siluro/Ord	Shell Western E&P	Waterflood	Semi-Perip	3/59	201239	20033	25	Fox Hills/Produced
Pine C & D	Red River	Shell Western E&P	Waterflood	Semi-Perip	3/68	26086*	685	2	Lodgepole
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	1184	-	-	Idle
Ragged Point SW	Tyler	Grand Resources, Ltd.	Waterflood	Random	10/82	11093	3616	4	Produced
Ragged Point Tyler A	Tyler	Central Resources Inc	Waterflood	Semi-Perip	12/66	11999	286	1	Produced
Rattler Butte	Tyler	Anchor Bay Corp.	Waterflood		5/93	80	134	1	Cat Creek
Raymond	Nisku	P&P Producing Inc	CO2 Inj.		8/83	2288	333	1	Produced
Red Creek	Cut Bank	Summit Resources, Inc	Waterflood	5 Spot	6/65	18536*	9511	3	Produced
Regan Dome	Madison	Union Oil California	Waterflood	Random	7/73	8769	1254	5	Produced
Ridgelawn RDU	Duperow	Cowry Enterprises Ltd	Secondary	Unknown	7/90	3426	1270	3	Dakota
Roscoe Dome	Lakota	E. American Energy	Steam Inj.	Unknown	5/82	5	-	-	Idle
Rosebud	Tyler	Anchor Bay Corp.	ER	Random	09/91	467	4806	1	Cat Creek
Shepherd	Tyler	Summit Resources	Secondary	Random	11/84	95	-	-	Idle
Stensvad	Tyler	Tomahawk Oil Co.	Waterflood	Semi-Perip	12/63	29289*	581	2	Produced
Sumatra Central	Tyler	Ballard & Associates	Waterflood	Semi-Perip	9/69	195771	10975	9	Madison/Produced
Sumatra Grebe	Tyler	Tomahawk Oil Co.	Waterflood	Random	6/75	1097	351	1	Produced
Sumatra NE	Tyler	Ballard & Associates	Waterflood	Semi-Perip	9/69	13142*	122	2	Produced
Sumatra SE	Tyler	Central Resources Inc	Waterflood	Semi-Perip	12/69	33152	2785	4	Produced
Sumatra Sawyer	Tyler	Central Resources Inc	Waterflood	Semi-Perip	6/80	1398	136	1	Madison
Sumatra W. Kincheloe	Tyler	Forcenergy Gas Explor	Waterflood	Semi-Perip	5/82	24768	5275	6	Madison
Sumatra West	Tyler	Conoco	Waterflood	Semi-Perip	10/68	65946	2989	4	Produced
Tippy Buttes	Tyler	True Oil	Waterflood	Random	5/82	262	-	-	Abandoned
Utopia	Swift	True Oil Co.	Waterflood	Random	03/92	95	188	4	
Winnett Junction	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/77	9441	1084	2	Produced
Wolf Springs South	Amsden	Beartooth Oil & Gas	Waterflood		1/93	173	160	1	Water Supply Well

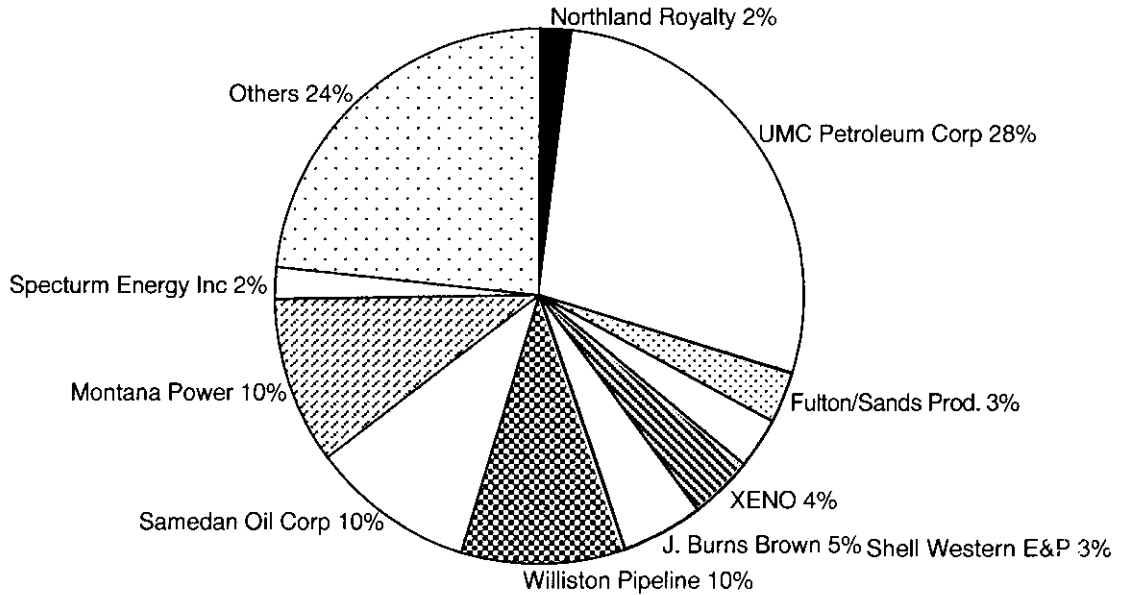
* Cumulative figures adjusted by operator

Top Producing Oil Companies – 1994
16,530,980 Barrels



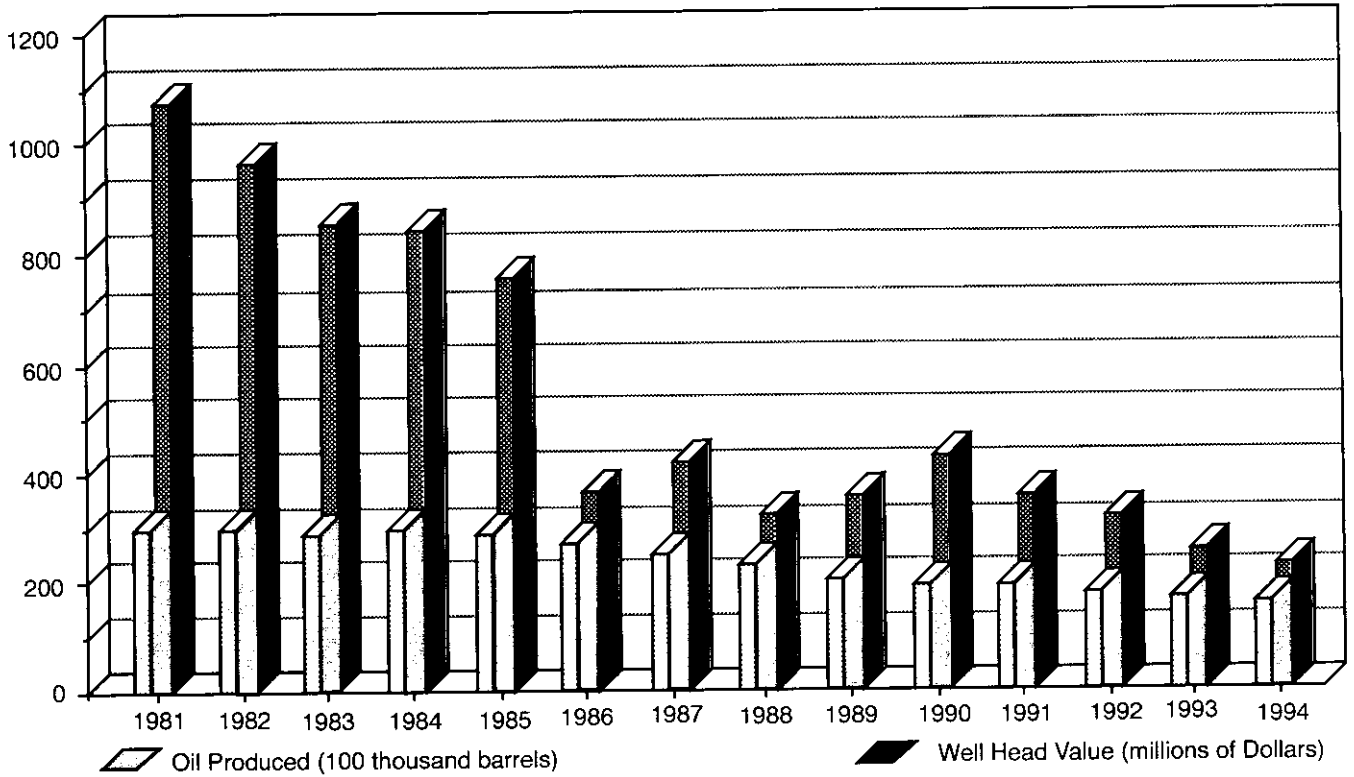
240 Active Oil Producers

Top Producing Gas Companies – 1994
51,792,274 Mcf

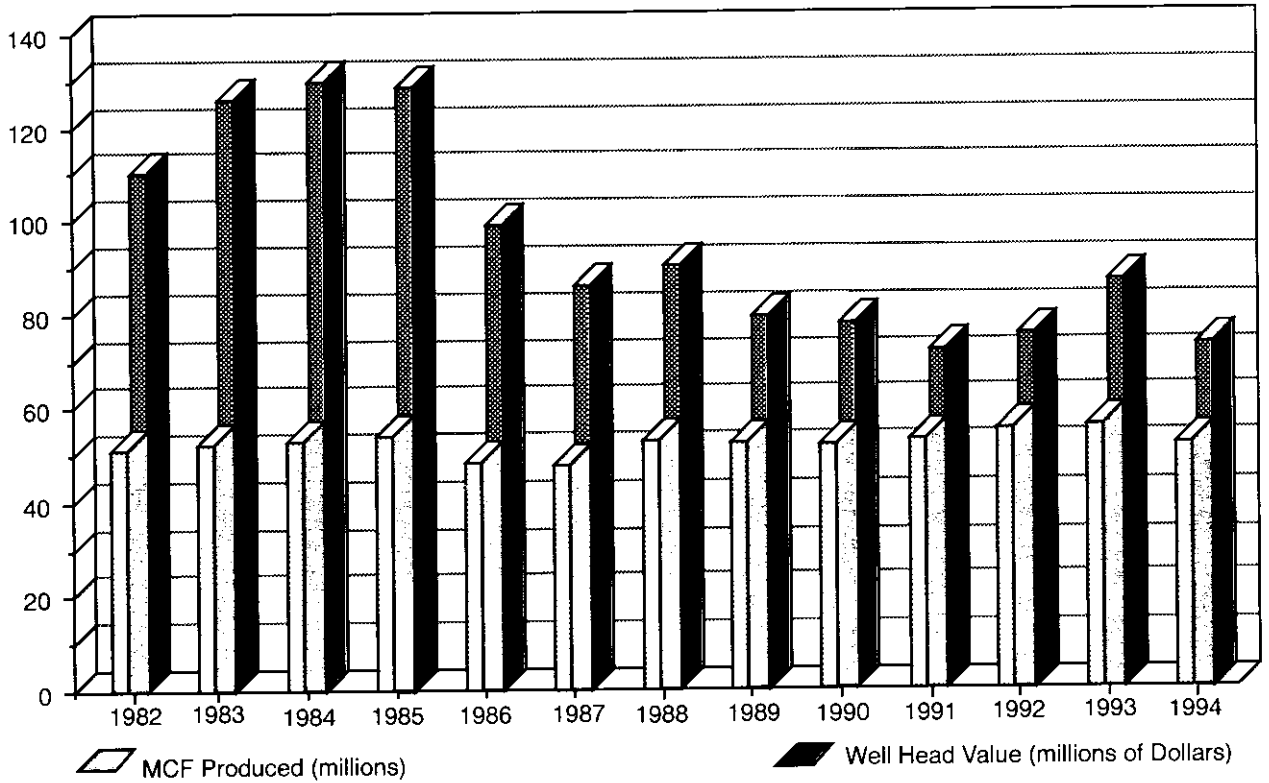


177 Active Gas Producers

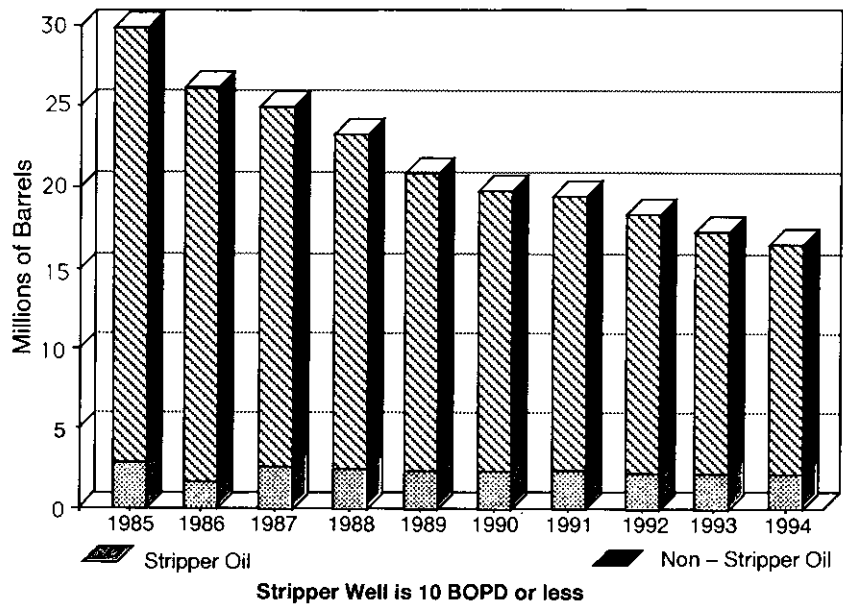
Oil Produced and Oil Value



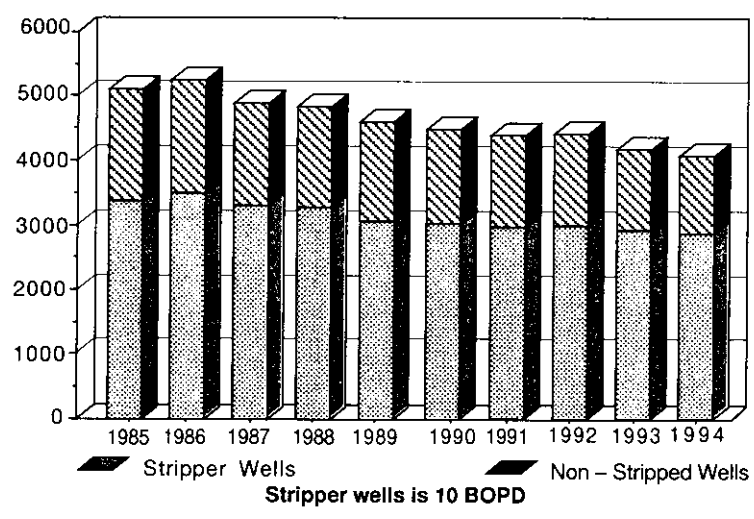
Gas Produced and Gas Value Natural and Associated Gas



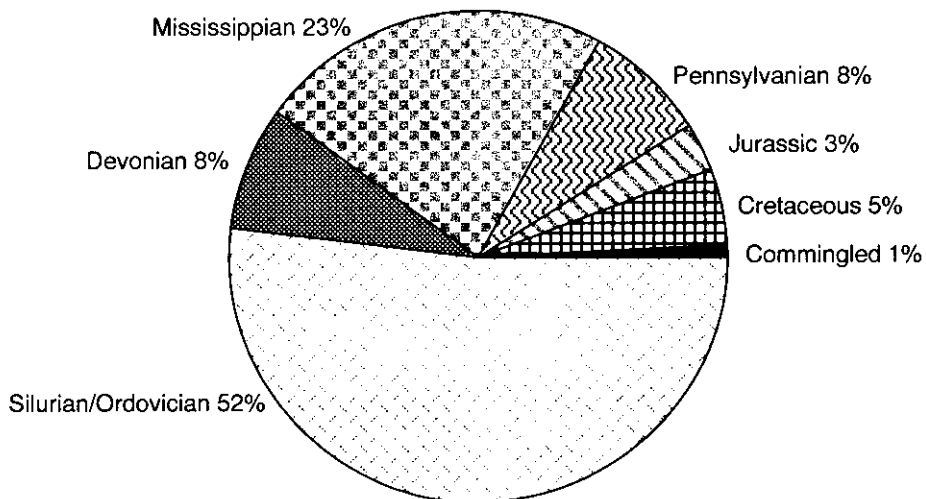
Stripper and Non - Stripper Oil Production



Stripper and Non - Stripper Number of Producing Wells



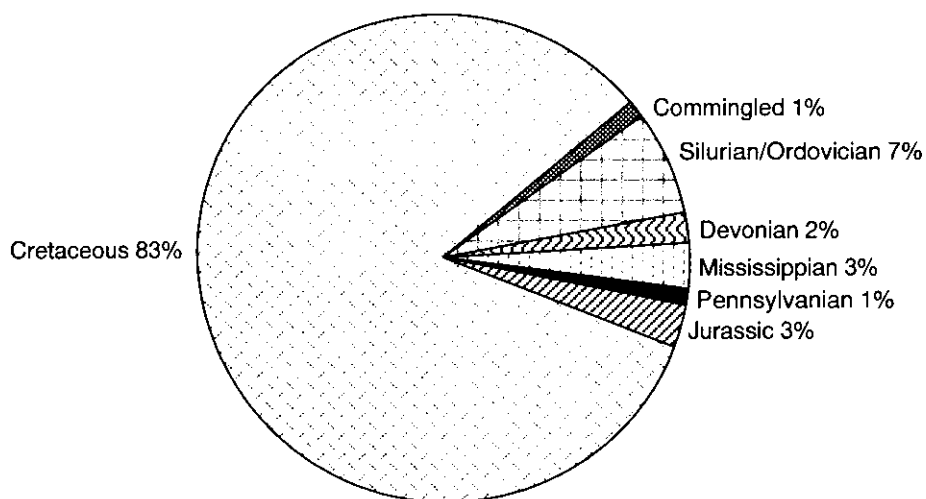
Oil Production By Geologic Period



16,530,980 Bbls

Gas Production By Geologic Period

Natural & Associated



51,792,274 Mcf

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
ALMA				
Bow Island, Blackleaf	0	2	0	640-acre spacing units for gas production from the Sawtooth, Bow Island, and shallower formations; location to be no closer than 990' to spacing unit boundary (Order 19-77).
AMANDA				
Bow Island	0	9	2	320-acre spacing units for gas with one well per horizon from the base of the Swift to the surface; wells to be located no closer than 660' to unit boundary; spacing units to consist of two contiguous quarter sections lying within one or two governmental sections (Order 76-79). Field enlargement (Orders 25-83, 1-85, 25-88, 42-88, 2-89 and 29-91). Add Sec. 23-36N-4W for gas production below Bow Island and through the Swift (Order 63-91).
Bow Island, Dakota	0	2	0	
Dakota	0	1	0	
Sunburst	0	3	0	
Swift, Sunburst	0	10	0	
Swift	0	1	0	
ANVIL				
Ratcliffe	1	0	2	320-acre spacing units for Red River "B" and "C" with one well per zone located no closer than 660' to spacing unit boundary; commingling approved for one well only per spacing unit (Order 75-85).
Nisku	1	0	0	
Winnipegosis	1	0	0	
Red River	6	0	1	
ARCH APEX				
Bow Island	0	39	4	Delineated for Colorado Blackleaf pool; wells to be 330' from legal subdivision, 2,400' from any other well drilling to or producing from the same reservoir; 75' topographic tolerance (Orders 5-56, 4-60). Single Bow Island spacing unit (Order 3-78).
Sunburst	0	1	1	
Swift, Sunburst	0	0	2	
ASH CREEK				
Shannon	2	0	1	Spacing waived within unitized portion of field except no well may be drilled closer than 660' from unit boundary (Order 4-65). Waterflood initiated October 1964 (Orders 22-64, 15-66).
ASHFIELD				
Bowdoin	0	72	2	640-acre spacing units for Bowdoin/Greenhorn/Phillips with two wells per formation (Orders 41-82 and 16-89). Amend to allow 4 wells per formation per 640-acre spacing unit located no closer than 660' to the spacing unit boundary, 1,320' between wells producing from the same formation with 150' of tolerance for geologic or topographic reasons (Order 17-89). Amend to allow 8 wells per spacing unit in 4 spacing units and reduce between-well distance to 990' with 150' topographic tolerance (Order 8-92).
Bowdoin, Greenhorn	0	8	0	
Bowdoin, Greenhorn, Phillips	0	21	0	
Greenhorn-Phillips	0	54	4	
BADLANDS				
Eagle	0	8	5	One Eagle Formation well per governmental section spacing unit; to be located no closer than 990' to a section line (Order 22-78).
BAINVILLE				
Ratcliffe	1	0	0	Single 320-acre spacing unit for Winnipegosis Formation (Order 117-84). Single spacing unit for Red River and Winnipegosis (Order 18-88).
Winnipegosis	1	0	0	
Red River	2	0	0	
BAINVILLE (RATCLIFFE/MISSION CANYON)				
Ratcliffe	1	0	0	Single spacing unit consisting of S/2 NW/4 and N/2 SW/4 Sec. 13, T28N, R58E for production from the Mission Canyon/Ratcliffe (Order 5-94).
BAINVILLE II				
Red River	3	0	0	320-acre Red River spacing units; no well closer than 660' to the unit boundaries (Order 36-82). Field reduction (Order 16-85). Single Red River spacing unit designated (Order 69-85).
BAINVILLE, NORTH				
Mission Canyon	1	0	0	320-acre spacing units for Winnipegosis and Red River consisting 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 1,650' to any well producing from the same formation (Order 84-79). Amended to permit a topographic tolerance of 150' from the well location requirements (Order 39-80). Single spacing unit for production from the Nisku Formation (Order 61-92). Single spacing unit for production from the Madison (Order 16-93).
Ratcliffe	2	0	0	
Nisku	1	0	0	
Winnipegosis	2	0	0	
Interlake	0	0	1	
Red River	4	0	0	
BAINVILLE, WEST				
Red River	1	0	0	320-acre spacing units for Madison Group 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 1,650' to another producing well within the field (Orders 19-78, 42-79). 320-acre Red River spacing units aligned in east-west direction with permitted well to be no closer than 660' to unit boundary (Order 57-80).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BANNATYNE				
Swift	17	0	0	Delineated for production from the Swift and Madison Formations; wells to be located at center of 10-acre tracts, 50' topographic tolerance; commingling permitted (Order 20-58). Pilot waterflood of Swift Formation suspended in 1963.
Madison	6	0	4	
BATTLE CREEK				
Eagle	0	57	2	Originally delineated for production of gas from all formations from surface to top of Virgelle with one well per producing horizon per section located no closer than 990' to section line but allowing additional wells in each section no closer than 1,320' to wells producing from same horizon (Order 40-86). Field rules amended to include Lower Eagle and Upper Colorado intervals in a portion of the field (Order 76-92).
Niobrara	0	2	0	
BEANBLOSSOM				
Lower Tyler	2	0	0	Three spacing units consisting of individual lots with one well per lot (Order 23-86).
BEARS DEN				
Bow Island	0	1	0	Swift unit delineated and spacing waived in unitized portion of field (Order 5-89). Statewide spacing for non-unitized lands and formations.
Swift	8	2	0	
BELFRY				
Kootenai	0	0	1	Statewide.
BELL CREEK				
Muddy	62	0	214	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). Tertiary recovery program (Order 25-80). Dissolution of secondary and enhanced recovery units created under Orders 7-70, 23-70 8-71, 26-71, 35-71, 25-80, 82-84, 111-84, 112-84 and consolidation of said units as the Bell Creek Consolidated (Muddy) Unit approved 12-12-91 (Order 71-91). South Bell Creek (Muddy) Unit approved 6-28-90 (Order 24-90).
BELL CREEK, SOUTHEAST				
Muddy	0	2	0	160-acre spacing units for Muddy gas production, wells 660' from spacing unit boundary (Order 31-72).
BENRUD				
	0	0	0	160-acre spacing for Devonian with wells no closer than 990' from spacing unit boundaries (Orders 1-62 and 44-62). Field rules amended to allow drilling not closer than 660' to the spacing unit boundaries (Order 6-65). Field reduction (Order 66-84).
BENRUD, EAST				
Nisku	2	0	0	160-acre spacing units for Nisku with permitted location within a 1,320' square in center of quarter section (Order 6-65). Single Nisku Formation spacing unit consisting of Lots 3 and 4, Sec. 6, T30N, R48E (Orders 108-84 and 7-85).
BENRUD, NORTHEAST				
Nisku	1	0	0	Same as East Benrud Field (Order 6-65). Field enlargement (Order 26-66).
BERTHELOTE				
Sunburst	3	0	0	Sunburst wells to be located 330' from lease lines; 660' between wells with no more than one well per governmental quarter-quarter section (Order 18-66).
BIG COULEE				
Cat Creek 3	0	6	1	Statewide except for single spacing unit for production of gas from the Morrison Formation consisting of Sec. 29, T4N R20E (Order 25-86).
Morrison	0	1	1	
BIG GULLY				
Tyler	2	0	0	Statewide.
BIG GULLY, NORTH				
Tyler	0	0	1	Statewide.
BIG MUDDY CREEK				
Mission Canyon	0	0	1	One well per 320-acre spacing unit for Interlake and Red River with wells no closer than 660' from boundary of the four N/2-S/2 spacing units (Order 4-75).
Red River	1	0	0	
BIG ROCK GAS FIELD				
Colorado	0	5	0	640-acre spacing units for gas production from Blackleaf "A" Formation; location to be no closer than 990' to any governmental section line (Order 31-78). Amended to allow 2 wells per section in 5 sections (Order 64-85).
Blackleaf	0	26	0	
Bow Island	0	6	0	
Madison	2	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BIG WALL				
Amsden	7	0	0	Basal Amsden Sand and Amsden Dolomite spaced by old statewide spacing; 330' from lease or property line, 990' between wells in same reservoir (Order 12-54). Previous disposal into Tyler "A" stopped in 1961. Waterflood of Tyler "B" sand started August 1966 (Order 22-66). A second Tyler "B" waterflood authorized by Order 96-83.
Tyler	9	0	0	
BILLS COULEE				
Dakota	0	0	1	Field without restrictions except that no well may be drilled closer than 330' to the exterior field boundary (Order 22-80).
Kootenai	0	0	3	
Moulton	0	0	2	
Sunburst	0	0	1	
Madison	0	0	1	
BLACK BUTTE				
Eagle	0	1	1	320-acre spacing units for gas production from the Eagle Sandstone 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' to exterior field boundaries nor closer than 660' to the interior spacing unit boundaries (Order 134-80).
BLACK COULEE				
Eagle	0	7	4	320-acre Eagle spacing units; well to be located no closer than 990' to unit boundary (Order 6-73). Well location to be no closer than 660' to eastern boundary of Black Coulee Field (Order 37-79). Field enlargement (Order 71-79).
BLACK DIAMOND				
Duperow	1	0	0	320-acre spacing units for Duperow, Red River and Nisku Formations; well location no closer than 660' to unit boundary (Orders 147-81 and 51-86). Field enlarged (Order 15-87). Portion of existing field delineated for production from Ratcliffe Formation (Order 32-89).
Madison, Nisku	2	0	0	
BLACK JACK				
Second White Specks	0	1	0	Delineated for Sunburst and Swift with one gas well per 160 acre spacing unit, with well no closer than 660' to spacing unit boundaries (Order 3-69). Order 3-69 amended to include Blackleaf Formation in spacing and field rules (Order 4-74).
Blackleaf	0	2	0	
Bow Island	0	1	0	
Sunburst	0	11	0	
BLACKFOOT				
Dakota	0	6	1	Delineated for Cut Bank and Madison with one well 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). Enhanced recovery approved EPA-88. Blackfoot Shallow Gas: 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).
Sunburst, Dakota	0	2	0	
Cut Bank, Madison	16	0	0	
Nisku	0	0	1	
BLACKLEAF CANYON				
	0	0	0	Single 160-acre Madison spacing unit (Order 84-81).
BLACKLEAF UNIT				
	0	0	0	Well spacing requirements suspended provided no well drilled to be closer than 990' to unit boundary (Order 47-81). Two 280-acre spacing units for Sun River (Order 25-85).
BLOOMFIELD				
Dawson Bay	1	0	0	320-acre spacing units for Interlake and Red River Formations consisting of two contiguous governmental quarter sections which need not be in the same section; wells located no closer than 660' to spacing unit boundaries (Order 38-83). Dawson Bay Formation added and commingling of Dawson Bay, Interlake, and Red River formations authorized (Order 16-84). Enlarged (Orders 32-84 and 26-89).
Interlake	1	0	0	
Red River	1	0	1	
BLUE MOUNTAIN				
Red River	0	0	1	Statewide.
BORDER				
Cut Bank	12	0	5	Oil: Unitized into New and Old Border fields; Unitized 6-1-73 (Orders 8-73, 9-73). Gas: Location no closer than 330' to 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).
Moulton	0	1	0	
Sunburst	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BOWDOIN & AREA				
Bowdoin	0	20	2	One well per quarter section not less than 1,000' from lease boundary or less than 2,000' from any gas well in same horizon (Order 29-55). Unitized 1958. Delineated (Order 3-72).
Bowdoin, Greenhorn	0	6	0	
Bowdoin, Greenhorn, Phillips	0	21	3	
Greenhorn	0	329	22	
Phillips	0	25	1	
BOWES				
Eagle	0	44	8	Eagle Sandstone gas wells to be located 660' from boundary of legal subdivision and 1,320' from other wells in same formation with 75' topographic tolerance (Order 23-54). 160-acre Eagle spacing units in Sec. 5, 6, 7, 8, 17, and 18, T31N, R19E (Order 44-75). Sawtooth (Piper) oil wells 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 utilizing water from Madison (Order 6-61). Vacuum pumps authorized for Sawtooth Formation wells (Order 74-83).
Sawtooth	48	0	36	
BOX CANYON				
Red River	2	0	0	Statewide.
BRADLEY				
Bow Island	0	1	0	One well per formation per section for production of gas from all horizons above the top of the Kootenai Formation (Order 91-84).
Sunburst	1	1	0	
Madison	1	0	0	
BRADY				
Burwash	1	0	2	Originally delineated for Sunburst Sandstone; wells to be located at center of 10-acre spacing units with 75' topographic tolerance (Orders 34-62, 55-62). Field enlargement; operators may commingle production from Burwash and Sunburst formations in Section 16 (Order 86-81).
Sunburst	8	0	4	
Morrison	0	0	11	
BREED CREEK				
Tyler	9	0	5	Breed Creek waterflood Unit approved; spacing waived within unitized area; wells to be located no closer than 330' to unit boundaries (Order 12-92). Certified as expanded enhanced recovery unit effective 9/1/94 (Order 90-94).
BROADVIEW				
Frontier	0	0	1	Single 640-acre Frontier spacing unit comprised of Sec. 35, T5N, R22E (Order 8-86).
BRORSON				
Madison	5	0	0	One well per 160-acre spacing unit, wells no closer than 660' from spacing unit boundary (Mission Canyon and Red River, Order 5-69). Field enlargement (Order 25-82).
Mission Canyon	3	0	0	
Ratcliffe	1	0	0	
Red River	3	0	0	
BRORSON, SOUTH				
Madison	2	0	0	Delineated for Red River production with one well per 160-acre spacing unit, no closer than 660' from spacing unit boundary (Order 26-68). Gas to Brorson Field Plant. Reduced Field Area (Order 26-77).
Mission Canyon	3	0	0	
Bakken	3	0	0	
Red River	1	0	0	
BROWN'S COULEE				
Eagle	0	0	1	Delineated for Judith River and Eagle gas production; one well per 160-acre spacing unit located no closer than 660' to spacing unit boundary; commingling allowed upon administrative approval (Order 7-74).
BROWN'S COULEE, EAST				
Eagle	0	1	2	Statewide.
Judith River	0	0	1	
BRUSH LAKE				
Red River	4	0	0	320-acre Red River spacing units with initial nine spacing units described in Order 15-71.
BUFFALO LAKE				
Madison	0	0	1	Statewide.
BULLWACKER				
Eagle	0	41	0	Delineated for Judith River and Virgelle/Eagle gas production with one well per 320-acre spacing unit with well location no closer than 660' to internal spacing unit boundaries and 990' to exterior field boundary (Order 26-74). Field enlarged (Order 63-85).
Judith River	0	2	0	
Virgelle	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BURGET, EAST				
Madison	1	0	0	Statewide.
Mission Canyon	1	0	0	
Ratcliffe	1	0	0	
BURNS CREEK				
Red River	0	0	1	Statewide.
BURNS CREEK, SOUTH				
Red River	0	0	1	Statewide.
CABARET COULEE				
Madison	2	0	2	Statewide.
CABIN CREEK				
Madison	6	0	14	Spacing waived and General Rules suspended until present Unit Agreement becomes inoperative (Order 36-62). Field boundaries amended and some spacing units designated (Order 118-84). Waterflood of Siluro-Ordovician (Orders 5-59, 15-60, and 30-63). Certified as an expanded enhanced recovery project effective 9/1/94.
Siluro-Ordovician	90	1	7	
Red River	8	1	0	
CAMP CREEK				
Eagle	0	1	0	Statewide.
CANADIAN COULEE & AREA				
Firemoon	0	0	1	320-acre spacing units for Jurassic Sawtooth/Piper with well location no closer than 660' to interior unit boundary, and 990' to field boundaries (Order 18-76).
Sawtooth	0	1	0	
CANADIAN COULEE, NORTH				
Sawtooth	0	1	0	640-acre spacing units for Jurassic Sawtooth. Wells to be no closer than 1,650' to section line (Order 15-74).
CANAL				
Madison	1	0	0	320-acre Red River spacing units consisting of E 1/2 and W 1/2 of governmental section (Order 34-70). 160-acre Madison spacing units; wells located no closer than 660' to unit boundary with 150' topographic tolerance (Order 58-85).
Mission Canyon	1	0	0	
Red River	1	0	0	
CARLYLE				
Red River	1	0	0	320-acre Red River spacing units to consist of either the N/2 and S/2 or E/2 and W/2 of section or lots corresponding thereto; well location to be no closer than 660' to unit boundary nor closer than 1,650' to any well drilling or producing from the same pool (Order 39-79). E 1/2 of 18-11N-61E designated as a spacing unit for Nisku Formation with permission to commingle production with Red River (Order 29-87).
CAT CREEK, EAST DOME				
Ellis	10	0	3	220' from lease or property line, 440' from every other well in same formation (Order 17-55). Three separate producing areas, East, Mosby, and West Domes. Field enlargement; upper and lower Brindley wells in Sec. 1, T15N, R28E are to be no closer than 350' from other Morrison wells in said section (Order 101-82). Three Kootenai, two Ellis, and one Amsden waterflood approved by Orders 17-56, 18-59, 13-62, 8-68, 38-70, 11-71 utilizing water from Third Cat Creek Sandstone. Waterflood modified (Order 29-74).
CAT CREEK, MOSBY DOME				
Cat Creek 2	1	0	1	See Cat Creek, East Dome regulation summary.
Ellis	3	0	4	
Rierdon	0	0	1	
Amsden	2	0	0	
CAT CREEK, WEST DOME				
Cat Creek 1 & 2	54	0	74	See Cat Creek, East Dome regulation summary.
Cat Creek 2	2	0	2	
Mowry	0	0	2	
Ellis	1	0	0	
Morrison	3	0	0	
CATTAILS				
Ratcliffe	7	0	0	160-acre spacing units for Ratcliffe; wells no closer than 660' to unit boundaries (Order 31-88).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
CATTAILS, SOUTH				
Madison	2	0	0	160-acre spacing units for Ratcliffe; wells no closer than 660' to spacing unit boundaries. Horizontal wells may cross spacing unit boundaries (Order 70-91).
Ratcliffe	2	0	0	
CEDAR CREEK				
Eagle	0	85	5	320-acre Eagle Formation spacing units for a portion of the area, with wells in center of NW 1/4 and SE 1/4 of each section with 200' topographic tolerance (Order 1-61). Delineation amendments (Order 23-76 and 32-86). Order 33-54 (original delineation) vacated, and a portion of the lands included in Order 1-61 removed by Order 32-86. Spacing in Baker North Eagle Unit waived; 660' setback from unit boundaries required (Order 93-94).
Judith River, Eagle	0	2	0	
CHAIN LAKES				
Eagle	0	0	2	Statewide.
CHARLIE CREEK				
Dawson Bay	1	0	0	Delineated for Red River, Duperow, and Nisku with 320-acre spacing units, oriented either east-west or north-south at option of operator; well no closer than 660' to spacing unit boundary and no closer than 1,650' to another producing well; spacing units may not cross section lines; commingling upon administrative approval (Order 66-76).
Red River	1	0	0	
CHARLIE CREEK, EAST				
Red River	3	0	0	Two 160-acre spacing units for Duperow Formation (Order 47-87). Two 320-acre spacing units for Red River Formation (Order 38-88).
CHARLIE CREEK, NORTH				
	0	0	0	Single Red River spacing unit (Order 37-82).
CHELSEA CREEK				
Nisku	1	0	0	Statewide.
CHINOOK, EAST				
Eagle	0	0	1	Statewide.
Sawtooth	0	0	2	
CHIP CREEK				
Eagle	0	0	3	160-acre spacing units for Virgelle/Eagle and shallower formations; location no closer than 660' to spacing unit boundary (Order 89-76).
CLARK'S FORK				
Greybull	0	1	0	330' from quarter-quarter section line; 1,320' between wells with 75' topographic tolerance (Order 17-54).
CLARK'S FORK, SOUTH				
Greybull	0	0	1	160-acre spacing for Frontier and deeper horizons; location no closer than 330' from quarter section line or 1,320' from any other well (Order 21-69).
CLEAR LAKE				
Mission Canyon	2	0	0	Statewide plus single spacing unit for Madison and Nisku consisting of E/2 NW/4 and W/2 NE/4 Sec. 8, T33N, R58E (Order 21-94).
Ratcliffe	3	0	0	
Nisku	3	0	0	
Red River	7	0	0	
CLEAR LAKE, SOUTH				
Red River	1	0	0	Statewide.
COAL COULEE				
Eagle	0	1	2	One Eagle well per governmental section, to be located no closer than 990' to section line and only one well permitted per formation (Order 25-78). Amendment to Order 25-78 provides 320-acre spacing units to be designated by the operator within certain sections; well to be located no closer than 990' to spacing unit boundary (Order 36-79).
COAL MINE COULEE				
Eagle	0	4	0	Delineated for Judith River and Eagle Formations with 4 wells per 640-acre spacing unit per formation with permitted well no closer than 990' to the exterior boundaries of the field and no closer than 660' to spacing unit boundaries with 150' topographic tolerance (Order 1-90).
Second White Specks	0	1	0	
COALRIDGE				
Mission Canyon	0	0	1	Statewide.
COLORED CANYON				
Nisku	0	0	1	Statewide plus single Red River spacing unit comprised of N 1/2 Sec 7, T32N, R57E (Order 28-84). Single 160-acre Nisku spacing unit within Section 8, T32N, R57E (Order 86-85).
Red River	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks	
COMERTOWN					
Mission Canyon, Bakken	2	0	0	320-acre Red River spacing units; permitted well to be no closer than 660' to spacing unit boundary (Order 35-80). Field enlargement (Orders 9-81 and 150-81).	
Ratcliffe	3	0	1		
Nisku	1	0	1		
Nisku, Duperow	2	0	0		
Red River	4	0	1		
COMERTOWN AREA, SOUTH					
Red River	1	0	0	Statewide.	
COMERTOWN, SOUTH					
Red River	1	0	0	320-acre spacing units consisting of N 1/2 and S 1/2 of Sec 21 and W 1/2 of Sec 22, T36N, R57E, wells located no closer than 660' to unit boundary (Order 96-84). Enlarged (Order 20-85).	
CONRAD, SOUTH					
Dakota	3	0	1	Originally delineated for Dakota production with 10-acre spacing units. Wells in center of each unit with 75' topographic tolerance (Orders 34-62, 31-63).	
Sunburst	2	0	3		
COTTONWOOD					
Ratcliffe	2	0	0	Single 320-acre Red River spacing unit (Order 85-84). Amended to include Ratcliffe Formation (Order 54-92).	
COTTONWOOD, EAST					
Ratcliffe	1	0	0	Statewide.	
COW CREEK					
Charles	0	0	1	80-acre Charles spacing units, direction at option of operator but wells to be in SW 1/4 and NE 1/4 of each quarter section (Order 11-69).	
COW CREEK, EAST					
Kibbey	9	0	1	40-acre spacing units for Charles and Kibbey formations consisting of quarter-quarter section with permitted well to be at center with 150' topographic tolerance (Order 35-74).	
CRANE					
Devonian	2	0	1	320-acre spacing units for Red River and Duperow Formations consisting of one half of a governmental section; well location to be no closer than 660' to spacing unit boundary and no closer than 1,650' to any well drilling to or producing from the same pool (Order 40-79).	
Duperow	1	0	0		
Red River	1	0	0		
Red River, Interlake	2	0	0		
CROCKER SPRINGS, EAST					
Madison	0	0	1	Statewide (Order 68-82 which established 80-acre spacing units was vacated by Order 37-87).	
CUPTON					
Red River	5	0	0	160-acre quarter section spacing units for Red River Formation. Location no closer than 660' to spacing unit boundary (Order 4-72).	
CUPTON AREA					
Red River	1	0	0	Statewide plus single Red River spacing unit (Order 14-85).	
CUT BANK					
Colorado Shale	0	1	0	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, 2,400' between wells in same formation; 75' topographic tolerance except for setback from legal subdivision boundary (Order 10-54). Sec. 20, 29, and 32 of T36N, R4W spaced 320-acres (N 1/2 and S 1/2) (Order 26-70). Cut Bank Special Spacing area: E 1/2 and W 1/2 spacing units with wells to be located no closer than 330' to legal subdivision line nor less than 2,400' from drilling or producible well producing from same reservoir (Orders 82-76, 6-77). Field extension (Order 3-79). Delineation amended to include all formations from surface to base of Madison Lime Formation (Order 45-80). Field enlarged (Orders 68-83 and 13-85). Designated spacing unit for Sunburst and Cut Bank Formation gas (Order 73-92). Additional wells in selected spacing units in Special Spacing area (Orders 14-93, 51-93, 2-94). SCCBSU enhanced recovery approved (Order 88-85). Cut Bank-Airport Unit approved (Order 26-92).	
Blackleaf	0	2	1		
Bow Island	0	25	0		
Cut Bank	459	199	311		
Dakota	0	1	0		
Kootenai	0	2	1		
Lander	1	2	3		
Moulton	31	3	27		
Moulton, Sunburst	2	0	0		
Sunburst	7	8	5		
Cut Bank, Madison	4	0	0		
Madison	43	1	23		
DAGMAR					
Red River	2	0	0		Statewide.
DEAN DOME					
Greybull	0	0	6	Statewide.	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
DEER CREEK Charles	3	0	0	80-acre spacing units for Interlake and Red River consisting of any two adjacent quarter-quarter sections. Well location in NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance (Orders 23-55 and 14-59). Well location amendment. (Order 10-86) Commingling of production in the Interlake, Stony Mountain, Red River, and Charles pay zones with administrative approval (Order 18-63).
DELPHIA Amsden	3	0	0	Statewide.
DEVIL'S BASIN Tyler	1	0	0	10-acre spacing units for Heath Formation; well location to be in the center of each spacing unit with a 75' tolerance for topographic or geologic reasons (Order 114-80). Certain lands removed from field (Order 103-94).
Heath	5	0	4	
DEVIL'S POCKET Heath	1	0	5	40-acre spacing units for Heath Formation; wells no closer than 165' to spacing unit boundary (Order 34-85).
DEVON Bow Island	0	23	7	160-acre spacing units for production of gas from all formations from surface to top of Kootenai Formation; wells located no closer than 330' to any quarter section line and 660' to exterior boundaries of field, excepting existing wells (Order 32-83). Field enlarged and amended to provide 320-acre spacing units for Bow Island Formation; wells located no closer than 660' to interior spacing unit line and 990' to section lines (Order 50-86). Field enlargement (Order 5-88).
DEVON, EAST Bow Island	0	2	1	320-acre spacing units for Bow Island gas production consisting of any two contiguous quarter sections; wells located no closer than 660' to spacing unit boundaries (Order 42-86). Field enlarged (Order 26-87).
DEVON, SOUTH UNIT Bow Island	0	1	0	South Devon Unit drilled on statewide spacing and unitized for primary production (Order 28-71, corrected). South Devon Field delineated for gas production from all horizons above the top of the Kootenai with 320-acre spacing units; wells located no closer than 660' to unit boundaries (Order 24-84). Field enlarged (Order 11-87).
DIAMOND POINT Interlake	1	0	0	320-acre spacing unit allowing two wells to produce from the Red River or from commercial production at any depth shallower (Order 20-80).
Red River	1	0	1	
DIVIDE Madison	4	0	0	Ratcliffe and Mission Canyon 160-acre spacing units, no closer than 660' to spacing unit boundaries and 1600' between wells; 150' topographic tolerance excluding boundary setback (Order 7-81).
Ratcliffe	4	0	0	
Red River	1	0	0	
DIVIDE AREA Red River	3	0	0	Statewide.
DOOLEY Ratcliffe	4	0	0	Statewide.
DRY CREEK Frontier	0	14	1	Field delineated for Frontier gas production with E 1/2 or W 1/2 of sections as spacing units (Order 8-70). West Dome gas storage project approved (Order 31-66). Enlarged (Order 69-92). Order 8-70 modified to allow N 1/2 or S 1/2 of section as spacing units (Order 31-76).
Judith River	0	4	0	
Virgelle	0	3	0	
Greybull	0	2	0	
DRY CREEK (SHALLOW GAS) Eagle, Virgelle	0	2	0	160-acre spacing units with 1 well per productive horizon above Cody Shale per spacing unit; location no closer than 660' to spacing unit boundaries (Order 54-76). Additional wells (Order 13-90).
DRY CREEK, MIDDLE Frontier	1	2	0	320-acre spacing units for Frontier gas production consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option; permitted well no closer than 660' to spacing boundary (Order 25-75).
DRY CREEK, WEST Greybull	0	1	0	Originally 160-acre spacing units for Greybull Sandstone; well location anywhere in spacing unit but no closer than 660' to unit boundary (Order 43-78); amended to include Frontier Formation (Order 65-82). Field enlargement (Order 86-82).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
DRY FORK Bow Island	0	6	1	One well per section per horizon above top Kootenai; wells no closer than 990' to spacing unit boundaries (Order 32-82).
DUNKIRK Dakota	0	15	1	Only one well per section may produce from each producing zone, formation, or horizon above Kootenai Formation, but no closer than 990' to section lines (Order 58-81). Field enlargements (Orders 104-81 and 66-82).
DUNKIRK, NORTH Bow Island	0	32	3	One well per governmental section per Bow Island zone or horizon. Each producing well to be located anywhere within section but no closer than 990' to section line (Order 25-77). Field amended to allow 4 wells per section located no closer than 1,320' to another well producing from the same horizon (Order 7-89). Field enlargements (Orders 64-78, 157-81 and 6-89). Field reductions (Order 61-91). Field amended to include Sunburst and Swift formations in 3 sections, 4 wells per formation per section with each Sunburst and Swift well located no closer than 660' to spacing unit boundaries and 1320' to any other well producing from same formation with a 75' topographic or geologic tolerance (Order 72-91).
Sunburst	0	1	0	
Swift	0	1	0	
DUTCH HENRY McGowan	2	0	0	Statewide plus two designated 160-acre spacing units (Orders 95-94 and 96-94).
Ratcliffe	4	0	0	
DUTCH JOHN COULEE Sunburst	2	2	4	Sunburst sand unitization and gas repressuring project approved; operator may drill additional wells anywhere in unit but no closer than 330' to unit boundaries (Order 27-88).
DWYER Charles	6	0	4	160-acre Madison spacing units; well location in center of SE 1/4 of spacing units with 175' topographic tolerance (Orders 25-60, 29-61). Field reduction (Order 30-85). Single 320-acre Nisku spacing unit (Order 30-87). Waterflood (Order 20-68). Single Red River spacing unit with 2 wells (Order 97-83). Single 320-acre Winnipegosis spacing unit (Order 10-91).
Ratcliffe	2	0	1	
Nisku	0	0	1	
Winnipegosis	0	0	1	
Red River	3	0	0	
Red River, Nisku	2	0	0	
EAGLE Madison	4	0	1	
Mission Canyon	2	0	1	
Ratcliffe	3	0	0	
Duperow	1	0	0	
Red River	1	0	0	
EAGLE SPRING Bow Island	0	5	2	One well per governmental section per zone, located no closer than 990' to section line for all gas zones above the top of the Rierdon Formation; commingling of Swift and Sunburst permissible (Orders 4-78, 19-79). Enlargement (Order 20-93).
Bow Island, Sunburst	0	0	2	
Bow Island, Sunburst, Swift	0	0	3	
Sunburst	0	0	1	
EAST GLACIER Greenhorn	1	0	0	160-acre spacing units for Greenhorn (Order 41-81). Amended to enlarge field and designate 80-acre spacing units; permitted well to be located no closer than 330' to the exterior boundaries (Order 112-81).
ELK BASIN Frontier	12	0	13	Spacing waived within unit areas (Order 10-61). 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).
Embar, Tensleep	42	0	20	
Madison	15	0	8	
Big Horn	0	0	1	
ELK BASIN, NORTHWEST Frontier	0	0	9	Spacing waived within unitized portion except that bottom of hole be no closer than 330' from unit boundary and there be at least 1,320' surface distance between wells in same formation; 75' topographic tolerance (Orders 43-63, 28-64). Frontier waterflood in progress. Embar-Tensleep waterflood (Order 3-67, 6-74).
Cloverly	1	0	0	
Embar, Tensleep	0	0	8	
Madison	7	0	2	
ENID, NORTH Dawson Bay	0	0	1	Spaced for one-well Red River field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T23N, R54E (Order 45-79).
Red River	2	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
ETHRIDGE Swift	0	8	1	320-acre spacing units for Swift Formation; well locations no closer than 660' to unit boundaries (Order 4-90). Field enlarged (Order 4-92).
ETHRIDGE, NORTH Bow Island	0	4	0	320-acre spacing units for horizons above Rierdon; well location to be no closer than 660' to unit boundaries; Section 2, T33N, R4W to remain a 640-acre spacing unit (Order 98-81). Designation of a 640-acre spacing unit for Third Bow Island Sand gas production (Order 66-93).
Swift	0	1	0	
FAIRVIEW Madison	1	0	0	160-acre spacing units; well location anywhere in spacing unit but no closer than 660' to unit boundary (Orders 48-65, 1-67, 43-67, 44-67, 38-84). Field area reduced (Order 119-84). Field enlarged (Order 16-87). Northwest part of field unitized for gas injection utilizing gas from Fairview and Brorson fields (Order 11-70).
Mission Canyon	2	0	0	
Ratcliffe	3	0	0	
Red River	12	0	0	
FAIRVIEW, EAST Ratcliffe	1	0	0	320-acre designated Red River spacing units (Order 76-81).
Winnipegosis	1	0	0	
Red River	0	0	1	
FAIRVIEW, WEST Madison	2	0	0	Statewide.
Mission Canyon	1	0	0	
FERTILE PRAIRIE Red River	5	0	0	80-acre north-south spacing units; well location in NW 1/4 and SE 1/4 of quarter section with 75' topographic tolerance (Orders 3-56, 7-62). Amended to provide well locations for each 80-acre spacing unit to be the center of the SW or NE quarter quarter section of each quarter section with 75' tolerance for surface obstructions (Order 65-80). Field enlargement (Order 70-94).
FIDDLER CREEK Greybull	0	0	2	Statewide.
FISHHOOK Madison	1	0	0	Statewide.
Red River	2	0	0	
FITZPATRICK LAKE Bow Island	0	9	1	One well per governmental section located no closer than 990' to section line for all gas zones above the top of the Kootenai (Order 31-79). Field enlarged (Orders 113-84 and 2-92). Authorization to complete two Swift Formation gas wells in Sec. 10, T36N, R4W (Order 50-93). Sec. 14 & 15, T36N, R4W delineated for formations above Swift and below Bow Island; 320-acre spacing units consisting of two regular quarter sections in one or two sections; 660' setback from spacing unit boundaries.
Swift	0	1	0	
FLAT COULEE Bow Island	0	3	0	Bow Island Gas: wells to be 330' from boundary of legal subdivision and 1,320' from other wells in same reservoir (Orders 36-54, 16-55). Sawtooth/Swift oil: 40-acre spacing units; well in center of spacing unit with 150' topographic tolerance (Orders 16-62, 19-63). Waterflood unit and redelineation approved for Swift sandstone (Orders 13-71, 17-A-71, 22-71).
Dakota	0	3	0	
Swift	18	1	1	
FLAT LAKE Madison	1	0	0	160-acre Madison spacing units; well location in center of NE 1/4 of quarter section with 200' topographic tolerance; wells no closer than 961' to North Dakota state line and no closer than 1,600' to Canadian line (Orders 10-65, amended; 43-65, 23-66, 33-66). Unit operation for eastern part of field (Order 7-71). Unit operation for western part of field (Order 32-74).
Ratcliffe	33	0	31	
Nisku	1	0	0	
FLAT LAKE, EAST Madison	1	0	0	Single 160-acre Madison spacing unit (Order 103-84).
FLAT LAKE, SOUTH Ratcliffe	3	0	1	160-acre spacing units for Ratcliffe 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).
FLAXVILLE	0	0	0	160-acre Madison spacing units; permitted well to be no closer than 660' to the exterior boundaries of the unit (Order 105-82). Order 105-82 amended to provide 150' tolerance for topographic reasons (Order 124-82).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
FORT CONRAD Bow Island	0	15	1	640-acre spacing units for Bow Island gas production; well location to be no closer than 990' to the section line (Order 19-81). Field enlargement (Order 118-82).
FORT GILBERT Madison	4	0	0	160-acre Ratcliffe/Mission Canyon spacing units; well location no closer than 660' to unit boundary with 150' topographic tolerance (Order 94-81). Excess produced associated gas reinjected into Duperow Formation (Order 78-81).
Mission Canyon	1	0	0	
Red River	2	0	0	
FOUR MILE CREEK Red River	1	0	0	320-acre spacing units for Red River (Order 43-75). Field reduction (Order 10-83).
FOUR MILE CREEK, WEST Red River	1	0	0	Statewide.
FOX CREEK, NORTH Bakken	0	0	1	160-acre spacing units for Madison Formation; wells located no closer than 660' to the unit boundary with 150' topographic tolerance (Order 13-84).
FRANNIE	0	0	0	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). EOR approved (Order 62-85).
FRED & GEORGE CREEK Bow Island	0	3	0	Sunburst Oil: 40-acre spacing units; well location in center of unit with 250' topographic tolerance (Orders 29-63, 1-65, amended by Order 27-65). Sunburst Gas: same as Arch Apex (Order 4-60). Statewide for other formations. Several Sunburst A and B Sand waterflood units in field and area (Orders 13-70, 27-71, 40-80, 43-93, 44-93, 60-93, 64-93).
Sunburst	20	0	33	
Swift, Sunburst	0	0	2	
Swift	1	1	1	
FRESNO & AREA Eagle	0	3	4	640-acre spacing units for Eagle (Virgelle) and shallower horizons; wells located no closer than 990' to 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).
FROG COULEE Red River	1	0	0	320-acre Red River spacing units; wells to be located no closer than 660' to the unit boundary (Order 55-79).
FROID, SOUTH Red River	1	0	0	Statewide.
GAGE Amsden	2	0	0	40-acre Amsden spacing units; well location to be in center of each unit with a permitted tolerance of 150' for topographical or geological reasons (Order 120-80). Field enlargement (Order 44-81).
GALATA Bow Island	0	6	1	Two wells from same Bow Island horizon per section no closer than 1,320' to each other and 990' to section lines (Order 28-85). Field enlarged (Orders 21-84, 41-85 and 76-85).
GAS CITY Madison	2	0	0	80-acre spacing units consisting of E 1/2 and W 1/2 of quarter sections; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance; spacing waived and statewide rules for Deviation, Commingling, and Dual Completion are waived in unitized portion of field (Order 29-62). Waterflood using produced water and Madison water (Order 16-69).
Madison, Ordovician	2	0	0	
Siluro-Ordovician	7	0	3	
Red River	2	0	1	
GILFORD, NORTH Sawtooth	0	0	1	320-acre spacing units for Sawtooth production with no well closer than 660' to spacing unit boundary (Orders 9-58, 38-76, 9-79).
GIRARD Bakken	1	0	0	Statewide.
Red River	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
GLENDIVE				
Siluro-Ordovician	6	0	1	80-acre spacing units consisting of any two adjacent quarter-quarter sections; wells located in center of NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance (Orders 27-55, 19-62, 58-62, 20-66). Additional 80-acre spacing units; commingling of Red River and Madison formations (Order 95-84). Additional Red River Formation wells in specific spacing units (Orders 21-93, 22-93).
Red River	6	0	2	
Stony Mountain	2	0	0	
GOLD BUTTE				
Bow Island	0	1	0	640-acre spacing for Bow Island and Swift, well location any quarter-quarter section cornering on center of section (Order 26-59). Amended field boundary (Order 43-77).
GOLDEN DOME				
Eagle	0	1	0	Originally 160-acre spacing for Judith River, Claggett, and Eagle (Virgelle); wells to be 660' from spacing unit boundary (Order 15-72). Single spacing unit for Greybull Formation (Order 17-82). Field enlargement and inclusion of Frontier and Greybull formations (Order 135-82).
Frontier	0	5	2	
Greybull	0	1	0	
GOOSE LAKE				
Ratcliffe	22	0	11	160-acre spacing units for Ratcliffe Formation (Order 42-63). Field enlarged (Orders 40-66, 47-67, 16-68). Refer to said orders for authorized well locations. Field size reduced (Order 29-77). Single spacing unit for Red River (Order 1-82). North Goose Lake Unit waterflood (Order 17-72). Unit production curtailment (Order 45-77).
Red River	1	1	0	
GOOSE LAKE, SOUTHEAST				
Ratcliffe	1	0	0	Statewide.
GOOSE LAKE, WEST				
Red River	1	0	0	Statewide.
GOSSETT				
Ratcliffe	1	0	0	Statewide.
Red River	1	0	0	
GRABEN COULEE				
Cut Bank	60	0	26	Sunburst - 40-acre spacing units; well location no closer than 330' to legal subdivision boundary. 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; 5-spot location on 40-acre tract allowed (Order 73-62). Waterflood of Cut Bank sands (Order 61-83).
Sunburst	9	0	6	
GRANDVIEW				
Bow Island	0	4	3	320-acre spacing units for all gas producing horizons, aligned in a north-south direction; well location no closer than 660' to a spacing unit boundary (Order 49-67).
Sawtooth	0	0	2	
GRANDVIEW, EAST				
Swift	2	0	3	Statewide.
GRAY BLANKET				
Tensleep	1	0	0	40-acre spacing units for Tensleep Formation. Wells located no closer than 330' to spacing unit boundary with 150' tolerance upon administrative approval (Order 20-92).
GREBE TYLER SAND UNIT				
Tyler	4	0	0	Tyler secondary recovery unit approved (Order 5-75).
GREEN COULEE				
Red River	1	0	0	160-acre spacing units for Ratcliffe Formation; well location to be no closer than 660' to unit boundaries with 150' tolerance allowed for topographic or geologic reasons. 320-acre spacing units for the Red River Formation with well location to be no closer than 660' to the unit boundary nor closer than 1,650' to any well producing from the Red River (Order 56-81).
GUMBO RIDGE				
Tyler	2	0	2	Statewide. Third Cat Creek water for waterflood (Order 54-79).
GUNSIGHT				
Madison	1	0	0	Statewide.
Mission Canyon	1	0	0	
Ratcliffe	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
GYPSY BASIN				
Moulton	0	0	1	Sunburst-Swift - 330' from lease lines and 660' between wells in same formation; only two wells per quarter-quarter section (Order 7-66). Sawtooth-Madison oil and gas - 40-acre spacing units; wells no closer than 330' from lease line (Orders 7-66, 12-79).
Sunburst	1	0	9	
Morrison	0	0	1	
Swift	0	0	2	
Sawtooth	0	0	4	
Madison	5	0	21	
Devonian	0	0	1	
Nisku	0	0	1	
HAMMOND				
Muddy	0	0	9	320-acre spacing units for Muddy Formation; 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).
HARDPAN				
Bow Island	0	7	1	Spacing one well per section for Kootenai and above. Well location no closer than 990' to the section boundary (Order 145-81). Field enlargement (Order 131-82). Allow 2 wells per spacing unit in Sections 15, 20 and 21, T27N, R3E (Order 72-92).
Swift	0	0	1	
HARDSCRABBLE CREEK				
Red River	1	0	0	Statewide.
HAVRE				
Eagle	0	1	1	Single spacing unit for production of gas from Eagle (Order 48-82).
HAWK CREEK				
Amsden	1	0	0	Statewide.
HAWK HAVEN				
Mission Canyon	1	0	0	Single 320-acre Madison spacing unit (Order 101-94).
HAY CREEK				
Mission Canyon	1	0	0	320-acre spacing for Red River, consisting of any two adjacent quarter sections, direction to be determined by operator; location no closer than 660' to unit boundary (Orders 15-69, 27-73).
Interlake	0	0	1	
Red River	1	0	0	
HAYSTACK BUTTE				
Bow Island	0	4	4	640-acre spacing units; one well per producing horizon above Kootenai Formation; location no closer than 990' to spacing unit boundary (Order 85-76). Amended field boundary (Order 37-77).
HAYSTACK BUTTE, WEST				
Bow Island	0	7	0	320-acre regular half-section spacing units for all formations above Rierdon; wells located no closer than 660' to the unit boundaries; commingling of production authorized as specified (Order 6-88). Field enlarged (Order 46-91).
HELL COULEE				
Madison	2	0	0	Statewide.
HIAWATHA				
Tyler	1	0	1	Statewide.
Tyler, Stensvad	2	0	0	
HIBBARD				
Amsden	0	0	2	Statewide.
HIGH FIVE				
Stensvad	6	0	3	Spacing waived, unitized, and polymer-waterflood authorized (Order 110-80).
Tyler	5	0	0	
HIGHLINE				
Eagle	0	0	1	Single 640-acre spacing unit for Eagle and shallower horizons (Order 35-88).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
HIGHVIEW				
Swift	0	0	1	160-acre spacing units, located no closer than 660' from spacing unit boundary; 150' topographic tolerance (Order 84-76). Orders 32-76, 84-76 and 63-82 are amended to provide as follows: 1. Permitted wells to the Moulton, Sunburst, Morrison, and Swift formations shall be no closer than 330' from the lease line nor closer than 660' to a permitted well in the same formation with only two such wells per quarter quarter section with a 150' topographic tolerance. 2. Madison: (Gas) 160-acre spacing units with well location to be no closer than 660' from quarter section lines. 3. Madison: (Oil) 40-acre spacing units with permitted location to be no closer than 330' from the lease line with a 150' topographic tolerance. 4. Sawtooth: (Oil and Gas) 40-acre spacing units with permitted location to be no closer than 330' from the lease line with a 150' topographic tolerance (Order 136-82).
Sawtooth	0	0	1	
Madison	6	0	13	
Devonian	0	0	1	
HONKER				
	0	0	0	320-acre specified spacing units for Red River Formation; permitted well no closer than 660' to the unit boundary (Order 105-80). Single 160-acre Winnipegosis spacing unit (Order 82-81).
HORSE CREEK				
Swift	1	0	0	Statewide.
HOWARD COULEE				
Tyler	1	0	0	Statewide.
INJUN CREEK				
Stensvad	2	0	0	Statewide.
INTAKE II				
Madison, Ordovician	0	0	2	320-acre spacing units for Red River Formation; permitted well to be located no closer than 660' from the unit boundary (Order 99-81).
Mission Canyon	2	0	0	
IVANHOE				
Cat Creek 2	1	0	0	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). Field size reduced (Orders 27-89 and 29-89). Waterflood of Tyler B and C sands discontinued.
Morrison	1	0	0	
Amsden	1	0	0	
Amsden, Tyler	0	0	2	
Tyler	2	0	3	
JIM COULEE				
Tyler	8	0	4	Unitized, no well to be drilled closer than 330' to unit boundary (Order 18-72).
KATY LAKE				
Red River	1	0	0	Statewide.
KATY LAKE, NORTH				
Madison	4	0	0	Statewide except for single 320-acre Red River spacing unit (Order 88-84), and single 160-acre Mission Canyon spacing unit (Order 89-84).
Mission Canyon	1	0	0	
Red River	5	0	0	
KEG COULEE				
Lower Tyler	3	0	4	40-acre spacing in southwest portion of field; spacing is waived in unitized portion (Orders 3-64, 4-64, 23-64). 80-acre spacing in remainder of field with variable pattern (Orders 11-60, 28-62). 40-acre spacing: W 1/2 E 1/2 and W 1/2 Sec. 35-11N-30E; NW 1/4 Sec. 35-11N-30E; NW 1/4 Sec. 2-10N-30E (Order 23-72). Topographic tolerance varies from 100' to 250' (Order 11-60, 4-64, 23-64). Buffer zone waived (Order 16-65). Field reduction (Order 2-76). Orders 11-60, 4-64, and 2-76 amended by Order 58-76. Three waterflood units (Orders 3-64, 28-66, 14-69). Expanded enhanced recovery unit approved effective 11/1/94 (Order 94-94).
Stensvad	1	0	0	
Tyler	5	0	3	
KEG COULEE, NORTH				
Tyler	1	0	0	40-acre spacing units with wells to be located at center of each spacing unit; 150' topographic tolerance (Order 46-64). Field reduction (Order 59-76).
KEITH AREA				
Second White Specks	0	2	1	Statewide.
Bow Island	0	1	0	
Sawtooth	0	1	0	
KEITH, EAST				
Niobrara	0	1	0	Statewide, except unitized portions spaced by Order 22-62.
Second White Specks	0	11	0	
Bow Island	0	7	0	
Sawtooth	0	5	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
KELLEY				
Tyler	1	0	3	40-acre spacing units with well at center of spacing unit with a 250' topographic tolerance (Order 15-67). Waterflood using Third Cat Creek water (Orders 8-69, 51-76).
KEVIN SUNBURST				
Bow Island	0	32	3	Oil: 9 Wells per 40-acre tract; only 3 wells on any side of tract with set back at least 220' from line; Gas: Well to be no closer than 330' from the boundaries of any legal subdivision line, nor less than 2,400' from every other drilling or producible well on the same lease or unit (Orders 8-54, 28-55). Single spacing unit (Order 61-85). Field enlarged (Order 54-87). 160-acre Bow Island spacing units established (Orders 2-88, 17-88, and 60-88). Two 80-acre spacing units for production of gas from all formations from surface to base of Sunburst Sandstone (Order 40-92). There are three waterfloods in operation using Madison water (Orders 9-64, 17-64, 30-64, 36-65). H2S, CO2 and produced water disposed into Madison (EPA-87). SWD approved EPA-84, 85, 86, 87, 88. Enhanced recovery approved EPA-88, 91, 92. Ferdig Swift Unit approved (Order 52-92).
Bow Island, Dakota, Kootenai, Sunburst	0	12	0	
Bow Island, Dakota, Sunburst	0	6	0	
Bow Island, Sunburst	0	20	0	
Bow Island, Dakota	0	4	2	
Burwash	9	1	0	
Dakota	0	2	0	
Sunburst	99	47	49	
Sunburst, Dakota	0	4	0	
Swift, Sunburst	0	6	0	
Bow Island, Swift	0	4	2	
Ellis	37	1	45	
Rierdon	0	2	0	
Swift	30	11	0	
Ellis, Madison	0	0	4	
Madison	731	5	844	
Nisku	1	1	2	
KEVIN SUNBURST (DAKOTA)				
Dakota	0	1	0	Single spacing unit for gas production from Dakota (Order 45-90).
KEVIN SUNBURST, NISKU & AREA				
Nisku	0	1	0	Nisku Gas: 640-acre spacing units; location no closer than 990' to spacing unit boundary (Order 83-76). Nisku Oil: 80-acre spacing units; location no closer than 330' to spacing unit boundary (Order 7-86).
KEVIN SUNBURST-BOW ISLAND				
Bow Island	0	7	0	160-acre Bow Island spacing units; location no closer than 660' to spacing unit boundary (Orders 2-88, 60-88). Field enlargement (Orders 17-88, 11-91).
KEVIN, EAST, BOW ISLAND GAS				
Bow Island	0	5	0	160-acre spacing units, one well no closer than 660' to spacing unit boundary per each producing zone, formation, or horizon from top of the Blackleaf to top of Dakota (Order 3-92).
Sunburst	0	1	0	
KEVIN, EAST, GAS				
Bow Island, Sunburst	0	4	0	320-acre designated spacing units for gas production from all horizons above the Rierdon Formation; 660' setback from spacing unit boundaries, 1 well per horizon per spacing unit, commingling authorized (Order 23-85). Field enlargements (Orders 29-86, 10-87, and 8-90).
Bow Island, Sunburst, Swift	0	3	0	
Sunburst	0	4	0	
Swift, Sunburst	0	2	0	
KEVIN, EAST, NISKU OIL				
Nisku	16	1	2	80-acre spacing units consisting of E 1/2 or W 1/2 of governmental quarter section; wells located in center of SW 1/4 or NE 1/4 of each quarter section with 200' geologic or topographic tolerance (Order 46-84). Field enlarged (Order 9-86). Single spacing unit authorized to produce gas from the gas cap (Order 24-88).
KEVIN, SOUTHWEST				
Bow Island	0	1	0	320-acre one-half section spacing units lying north-south or east-west at operator's option; location to be no closer than 660' to unit boundary for Sunburst-Swift formations and all formations above the top of the Kootenai (Orders 26-78, 47-78, 48-78). Field enlargement (Orders 82-79, 96-79, 47-80, 163-81 and 41-89).
Bow Island, Dakota, Sunburst	0	6	0	
Bow Island, Sunburst	0	8	0	
Bow Island, Dakota	0	6	0	
Dakota	0	4	0	
Kootenai	0	1	0	
Sunburst	0	8	2	
Sunburst, Dakota	0	4	0	
Bow Island, Dakota, Sunburst, Swift	0	4	0	
Swift	0	2	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
KICKING HORSE				
Bow Island	0	11	0	320-acre spacing units for Madison and shallower horizons; location no closer than 660' to unit boundary and 990' to field boundary (Order 17-74). Board Order 17-74 is amended to include additional lands 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).
Sunburst	0	4	1	
Sawtooth	0	1	0	
KINCHELOE RANCH, WEST				
Tyler	6	0	0	Statewide. Kincheloe Ranch Tyler "A" Unit approved (EPA-88 and Order 46-88). KR Tyler "A" Sand Unit approved. (Order 47-91)
KINYON COULEE AREA				
Bow Island	0	3	0	Statewide.
KINYON COULEE, SOUTH				
	0	0	0	Single Bow Island spacing unit with only one well allowed; location no closer than 990' to section line (Order 31-81).
KIPPEN AREA, EAST				
Madison, Swift	0	2	0	Statewide.
Sawtooth	0	0	1	
LAIRD CREEK				
Swift	8	1	1	Unitized and waterflood authorized in Swift for oil production (Order 25-74), commenced 2-25-77. Single 320-acre spacing unit for Swift gas production (Order 37-92)
LAKE BASIN				
Claggett	0	0	3	160-acre spacing units to base of Virgelle; wells no closer than 660' to unit boundary and 990' to field boundary; commingling with administrative approval (Order 9-74). Gas from Telegraph Creek pooled (Order 29-75).
Eagle	0	0	12	
Eagle, Virgelle	0	0	6	
Frontier	0	1	0	
Telegraph Creek	0	0	3	
Virgelle	0	0	1	
LAKE BASIN, NORTH				
Eagle	0	0	1	640-acre spacing units consisting of one section for all productive horizons; locations 990' from section line (Orders 6-58, 3-74). 160-acre spacing units for Claggett and Eagle/Virgelle, wells located no closer than 660' to quarter section lines within restricted sections (Order 63-76).
LAMBERT				
Red River	2	0	1	320-acre Red River spacing units consisting of the E 1/2 and W 1/2 of section (Order 3-83).
LAMESTEER CREEK				
	0	0	0	Single Red River spacing unit (Order 101-84).
LANDSLIDE BUTTE				
Madison	9	0	8	Statewide.
Sun River Dolomite	1	0	2	
LAREDO				
Eagle	0	0	2	320-acre Eagle spacing with unit consisting of one-half section lying north-south or east-west; well no closer than 990' to unit boundary (Order 8-74).
LEARY				
Muddy	3	0	0	40-acre spacing units for Muddy Formation; wells located no closer than 330' to spacing unit boundary with 75' topographic tolerance (Order 115-84 which amended Orders 12-69, 19-70, and 68-76).
LEDGER				
Bow Island	0	47	12	640-acre Bow Island spacing; one well per section per sand to be located no closer than 990' to section line; permissible to commingle two or more sands with administrative approval (Order 53-77). Field enlargement and amendment to allow two wells per sand per section (Order 1-87).
Sawtooth	0	0	1	
LEROY				
Eagle	0	22	10	320-acre spacing for Judith River and Eagle/Virgelle with unit consisting of one-half section lying north-south or east-west. Wells no closer than 660' to unit boundary and 990' to field boundary. (Order 19-75) Tolerance of 330' allowed for topographic reasons (Order 72-80). Field enlargement (Order 31-87).
LISCOM CREEK				
Shannon	0	8	0	Shannon spacing, one well per 640 acres, with location no closer than 990' to section boundary (Order 20-72).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LITTLE BASIN				
Frontier	0	0	3	640-acre Frontier spacing units; one well per section located no closer than 990' to spacing unit boundary (Order 27-86).
Lakota	0	0	1	
LITTLE BEAVER				
Siluro-Ordovician	26	1	7	Spacing waived and General Rules suspended until unit agreement becomes inoperative (Order 41-62). Waterflood of the Red River was commenced in August 1967 (Order 3-66). Cedar Creek Units 8A & 8B certified as expanded enhanced recovery units effective 9/1/94 (Order 79-94).
Red River	1	0	5	
LITTLE BEAVER, EAST				
Mission Canyon	1	0	0	Same as for Little Beaver (Order 42-62). Waterflood of the Red River commenced in April 1965 (Order 33-64). Cedar Creek Units 8A & 8B certified as expanded enhanced recovery units effective 9/1/94 (Order 80-94).
Siluro-Ordovician	9	0	1	
LITTLE CREEK				
Eagle	0	1	0	Statewide.
Eagle, Virgelle	0	4	0	
Virgelle	0	0	1	
LITTLE PHANTOM				
Sunburst	1	0	0	10-acre spacing units; well location to be located anywhere within the spacing unit but no closer than 220' to the exterior boundary lines of the field nor closer than 440' to any well capable of or producing from the Sunburst Sands (Order 46-81).
LITTLE ROCK				
Blackleaf	0	10	0	320-acre N 1/2 and S 1/2 spacing units for Blackleaf and Bow Island; well location no closer than 990' to west line of Section 14 and 660' to the remaining unit boundary lines (Order 40-78). Field enlargement (Orders 94-79 and 34-80). Allow two wells within each spacing unit no closer than 1,320' to each other and no closer than 660' to unit boundaries (Order 12-90). Two 320-acre spacing units for Lander Formation gas, 2 wells per spacing unit located no closer than 1320' to another Lander formation well and 330' to the spacing unit boundary (Order 56-91). Enlarge for Lander gas production (Order 48-93).
Bow Island	0	1	0	
Lander	0	2	0	
LITTLE WALL CREEK				
Tyler	3	0	0	Little Wall Creek, Tyler Sand Unit (Order 40-84). Weisner Tyler Sand Unit approved (Order 65-91).
Tyler, Stensvad	6	0	2	
LITTLE WALL CREEK, SOUTH				
Tyler	10	0	1	South Little Wall Creek Unit waterflood (Order 85-83). Gunderson Tyler Sand Unit (Order 39-87; unit area reduced by Order 21-92). Hamilton-Gunderson Tyler Sand Unit (Order 22-92).
LODGE GRASS				
Tensleep	2	0	0	Statewide.
LOHMAN				
Eagle	0	3	3	640-acre Eagle spacing; one well per section to be located no closer than 990' from section line (Order 23-78).
LOHMAN AREA				
Eagle	0	0	1	Statewide.
LONE BUTTE				
Madison	0	0	1	Single 320-acre spacing unit for Red River and Interlake formations; 160-acre spacing units for Madison with well location no closer than 660' to unit boundary; 150' topographic or geologic tolerance (Order 83-85).
Mission Canyon	2	0	0	
Red River	2	0	0	
LONETREE CREEK				
Madison, Ordovician	2	0	0	320-acre Red River spacing, wells 660' from spacing boundary, 2,000' between wells (Order 29-72). Field reduction (Orders 162-81 and 84-85). Ratcliffe and Mission Canyon delineation for S/2, Sec. 10, T24N, R57E (Order 45-93).
Mission Canyon	2	0	0	
Red River	5	0	1	
LONETREE CREEK, WEST				
	0	0	0	Red River spacing units shall be S 1/2 and N 1/2 of Section 12, T24N R56E. No well closer than 660' to spacing unit boundary or 1,320' to existing well. (Order 73-82)
LONG CREEK				
Charles C	1	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LONG CREEK, WEST Nisku	2	0	0	80-acre spacing units comprised of two contiguous quarter quarter sections in either one or two governmental sections aligned either north-south or east-west with location to be no closer than 330' to unit boundary nor less than 1,000' from any other producing well (Order 27-77). Field enlarged (Order 71-83).
LOOKOUT BUTTE Madison	4	0	3	160-acre spacing; well location in center of SE 1/4 of each quarter section with 150' topographic tolerance (Order 21-62). Coral Creek Unit not subject to spacing rules. Redelineated (Order 7-63). Field reductions (Orders 57-85, 6-87, 69-94). Waterflood of Silurian-Ordovician approved in 1966 (Order 35-66). Pennel and Coral Creek Deep Units certified as expanded enhanced recovery units effective 9/1/94 (Orders 77-94, 78-94).
Siluro-Ordovician	27	0	6	
Red River	11	0	0	
LOOKOUT BUTTE AREA, EAST Red River	13	0	0	Pilot waterflood (Orders 19-88, 21-89, 42-90A, 49-90, 77-92). Pilot area amendment (Orders 35-93, and 23-94). Redelineation of pilot waterflood area and certification as an expanded enhanced recovery project (Order 53-94). Area includes portions of Pennel, Lookout Butte, East Lookout Butte, and Fertile Prairie Fields. Numerous exceptions to statewide spacing have been granted to allow the drilling of horizontal wells.
LOOKOUT BUTTE, EAST Lodgepole	1	0	0	22 delineated Red River spacing units with wells located no closer than 660' to the unit boundary with 175' topographic tolerance (Order 87-85). Field enlargement and inclusion of Madison group and all Silurian formations (Order 6-87). (See discussion of Lookout Butte Area, East.)
Red River	11	0	1	
LORING Bowdoin	0	90	4	640-acre spacing units with 2 wells per formation (Order 79-82 and 12-89). Earlier orders amended to allow 4 wells per formation per spacing unit, no closer than 660' to section boundaries, 1,320' between wells producing from same formation with 150' tolerance for geologic and topographic reasons (Order 13-89). Pilot infill drilling program approved for a portion of the field, with up to 8 wells per spacing unit with between well distance reduced to 990' (Order 15-91).
Bowdoin, Greenhorn	0	42	0	
Bowdoin, Greenhorn, Phillips	0	156	0	
Greenhorn	0	3	0	
Greenhorn-Phillips	0	84	0	
Phillips	0	1	0	
LORING, EAST Bowdoin	0	18	1	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn and Phillips) exist, a well may be drilled to each discrete formation and may be located no closer than 660' from the spacing unit boundaries (Order 60-82).
Bowdoin, Greenhorn	0	44	4	
Bowdoin, Greenhorn, Phillips	0	39	6	
Greenhorn	0	4	0	
Greenhorn-Phillips	0	24	0	
Phillips	0	19	0	
LORING, WEST Bowdoin	0	2	0	Spacing units comprised of 1 full section with 4 wells permitted to each formation in each spacing unit located no closer than 660' to the exterior boundary of the section and no closer than 1,320' to a well in the same formation (Order 7-87).
Greenhorn-Phillips	0	2	0	
LOWELL Red River	2	0	0	320-acre Red River 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' to unit boundary or closer than 1,650' to well producing from the same horizon (Order 104-79).
LUSTRE Charles	11	0	0	80-acre Madison spacing units consisting of 1/2 of a regular governmental quarter section, either E 1/2 and W 1/2 or N 1/2 and S 1/2; well to be located in either NE 1/4 or SW 1/4 with 200' tolerance (Order 19-83). Field enlargement (Order 43-84).
Charles C	16	0	2	
Mission Canyon	6	0	1	
Ratcliffe	7	0	1	
LUSTRE, NORTH Charles	1	0	0	80-acre spacing units for Madison Group Formations consisting of E 1/2 or W 1/2 of a governmental quarter section; wells located no closer than 660' to spacing unit boundary with 200' topographic or geologic tolerance (Order 39-84).
MACKAY DOME Greybull	0	0	3	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
MARIAS RIVER Bow Island	0	17	1	One well per section per horizon above the top of the Kootenai (Order 18-78). Field enlargement (Order 12-83). Field amended to allow 2 wells per zone in each spacing unit located no closer than 1,320' to each other and no closer than 990' to spacing unit boundaries (Order 26-90).
MASON LAKE Cat Creek 1	2	0	10	80-acre First Cat Creek Sand spacing units consisting of one half of a quarter section lying in either east-west or north-south direction; well location in center of the NE and SW quarter-quarter sections of each quarter section with 75' topographic tolerance (Order 35-78). Amend Order 35-78 for certain lots designated as spacing units (Order 66-78). Field enlargement (Order 16-79). Enhanced recovery approved (Orders 37-88, 67-89 and 52-90).
Cat Creek 3	0	0	2	
Muddy	0	0	1	
Amsden	0	0	3	
MCCABE Ratcliffe	1	0	0	160-acre spacing units for Madison group; permitted well to be no closer than 660' to spacing unit boundary (Orders 100-80, 43-79). 150' tolerance allowed for topographic reasons (Order 3-81). Board Order No. 100-80 amended to eliminate the requirement of 1,650' between wells producing from the Madison group (Order 37-81).
MCCOY CREEK Red River	1	0	0	Statewide.
MEANDER Sunburst	2	0	0	40-acre spacing units for Sunburst with wells not closer than 330' to spacing unit boundaries (Order 30-82).
MEDICINE LAKE Madison	0	0	1	Delineated for formations from the base of the Winnipeg to the base of the Last Charles Salt; 320-acre spacing units comprised of any two contiguous governmental quarter sections in either one or two governmental sections; wells to be located no closer than 660' to unit boundary nor closer than 1,650' to any well producing from the same formation (Order 50-79).
Duperow	1	0	0	
Nisku	1	0	0	
Winnipegosis	1	0	0	
Gunton	2	0	0	
Red River	3	0	0	
MELSTONE Tyler	2	0	0	Statewide.
MELSTONE, NORTH Tyler	4	0	5	Waterflood unit approved (Order 125-82). Polymer-augmented tertiary recovery project approved (Order 37-84). Certification as expanded enhanced recovery unit effective 11/1/94 (Order 89-94).
MIDDLE BUTTE Second White Specks	0	1	0	Orders 3-60, 21-75 amended to delineate field extension and 320-acre spacing units for Bow Island consisting of the E 1/2 and W 1/2 of each section; well location no closer than 990' to the section line and 660' to the interior boundary (Order 47-77). Enlarge (Order 25-93).
Blackleaf	0	1	0	
Bow Island	0	3	2	
MIDFORK Charles C	6	0	0	Statewide. Also a single 80-acre Charles Formation spacing unit (Order 46-92).
Nisku	1	0	1	
MINERS COULEE Blackleaf	0	1	0	Oil: 40-acre units Sunburst/Swift consisting of quarter-quarter sections; well location no closer than 330' to lease or property line and 660' to any other well (Order 9-66). Order 9-66 amended to comply with Order 5-74. Gas: 160-acre spacing units for horizons above Rierdon; wells to be located 990' from boundary (Orders 5-74, 43-76, 44-77). Sawtooth gas spacing unit (Order 43-76). Field redelineation/enlargement (Orders 77-76, 44-77, 4-80).
Bow Island	0	11	4	
Sunburst	0	2	9	
Swift, Sunburst	0	2	0	
Sawtooth	0	2	0	
Sawtooth, Madison	0	0	2	
MISSOURI BREAKS Nisku	1	0	0	320-acre Red River spacing units as specified by Order 97-82.
Red River	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
MON DAK, WEST				
Madison	13	0	1	320-acre spacing units for Silurian and Ordovician pools; Spacing units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2; well location to be no closer than 660' to unit boundary or closer than 1,650' to any well drilling to or producing from same pool (Order 42-77). 320-acre spacing units for interval below Last Charles Salt and above the Devonian; units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2 of the section; well location to be no closer than 660' to a quarter section line or section line and no closer than 1,650' to any well drilling to or producing from same pool (Order 23-77). Madison Formation delineation (Order 51-79 as amended by Order 95-83).
Madison, Ordovician	2	0	0	
Mission Canyon	2	0	0	
Ratcliffe	1	0	0	
Devonian	0	0	1	
Duperow	1	0	0	
Interlake	1	0	0	
Siluro-Ordovician	3	0	0	
Red River	2	0	0	
Stony Mountain	2	0	0	
MONA				
Red River	1	0	0	Statewide.
MONARCH				
Madison	0	0	2	80-acre Madison spacing units consisting of E 1/2 and W 1/2 of quarter section; well location in SW 1/4 and NE 1/4 of quarter section; Location within 660' square at center of quarter section (Order 18-61). 160-acre Siluro-Ordovician spacing units consisting of a quarter section; well location in center of SW 1/4 of each quarter section with 175' topographic tolerance (Orders 12-59, 4-63). Spacing waived within Siluro-Ordovician waterflood area (Order 23-73). Certified as expanded enhanced recovery unit effective 9/1/94 (Order 76-94). Red River spacing unit (Order 81-94).
Interlake	4	0	0	
Siluro-Ordovician	10	1	6	
Red River	2	0	0	
Red River, Interlake	2	0	0	
MOSSER DOME				
Mosser Sand	23	0	1	Spacing waived. Future development requires administrative approval (Order 27-62).
MT. LILLY				
Bow Island	0	1	0	640-acre spacing for Madison; well location in approximate center of any of the four quarter-quarter sections adjoining center of section; 250' topographic tolerance (Order 37-63).
Swift	0	1	0	
Madison	0	0	2	
MUD CREEK				
	0	0	0	640-acre spacing units; wells located no closer than 1320' to section lines (Order 9-63). Amended to allow production from two wells in Sec. 12,T6N,R17E (Order 49-92).
MUSSELSHELL				
Tyler	1	0	1	Statewide.
MUSTANG				
Madison	1	0	0	Statewide.
Bakken	1	0	0	
Red River	2	0	0	
NEISER CREEK				
Red River	1	0	0	Single 160-acre Red River spacing unit (Order 78-82).
NIELSEN COULEE				
Madison	2	0	0	Statewide. Second well in quarter section authorized (Order 37-93).
NINEMILE				
Nisku	2	0	0	Statewide.
NOHLY				
Madison	5	0	0	Single Red River spacing unit (Order 77-83). Field enlarged, 320-acre designated Red River spacing units (Order 54-84). 160-acre Nisku spacing units, 660' setback from spacing unit boundaries, 150' topographic tolerance (Order 55-84). Nohly (Ratcliffe/Mission Canyon) field delineation; 160-acre spacing units with wells located no closer than 660' to the spacing unit boundaries (Order 70-92). Ratcliffe/Mission Canyon Field enlargement (Orders 6-94, 105-94).
Mission Canyon	2	0	0	
Ratcliffe	2	0	0	
Nisku	4	0	0	
Red River	1	0	0	
NOHLY AREA				
Ratcliffe	2	0	0	Statewide.
NORTH FORK				
Mission Canyon	3	0	1	Statewide, plus single Madison spacing unit, N/2 Sec. 23, T24N, R59E, with designated well (Order 104-94).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
O'BRIENS COULEE				
Second White Specks	0	1	0	Statewide.
Blackleaf	0	1	1	
Bow Island	0	12	4	
Bow Island Spike	0	4	0	
OLD SHELBY				
Bow Island	0	5	0	320-acre spacing units to be comprised of either E 1/2, W 1/2, N 1/2, or S 1/2 of a section for Swift, Kootenai, Dakota, and Sunburst gas; also delineated for Bow Island excluding T32N, R1W, Section 3 and T33N, R1W, Sections 14, 23, 26, and 35; two wells per spacing unit per gas producing horizon with well location to be no closer than 660' to spacing unit boundaries or 1320' to another well producing from the same horizon in the same spacing unit; wells drilled prior to April 1, 1953 exempted (Order 17-94 which supercedes all earlier orders).
Sunburst	0	60	4	
Swift, Sunburst	0	8	0	
Swift	0	28	2	
OLJE				
Mission Canyon	1	0	0	Single 160-acre spacing unit (Order 35-85).
OLLIE				
Red River	1	0	0	320-acre specified spacing units for the Red River and Duperow formations with the permitted well for each spacing unit to be located no closer than 660' to the spacing unit boundary (Order 73-80).
OTIS CREEK				
Ratcliffe	1	0	0	Statewide.
OTIS CREEK, SOUTH				
Ratcliffe	1	0	0	320-acre spacing units for Red River; well to be located no closer than 660' to unit boundary (Order 39-72). Extended field boundary (Orders 56-76, 67-76). Orders 39-72 and 56-76 amended to eliminate spacing units with new spacing units to consist of quarter sections; well location no closer than 660' from spacing unit boundary or 1,650' from producing well with 150' tolerance (Order 73-81).
Red River	1	0	0	
OUTLET				
McGowan	1	0	0	Delineated for production from the Madison Group; 160-acre spacing units with wells to be located no closer than 660' to spacing unit boundaries (Order 11-94).
OUTLOOK				
Duperow	1	0	0	160-acre spacing units for Siluro-Devonian; well location in center of either SW 1/4 or NE 1/4 of each quarter section; 175' topographic tolerance (Order 19-59A).
Nisku	1	0	0	
Interlake	1	0	0	
Gunton	1	0	0	
OUTLOOK, SOUTH				
	0	0	0	160-acre spacing for Siluro-Devonian; permitted wells in either SW 1/4 or NE 1/4 of quarter section; 175' topographic tolerance (Order 19-59A). Red River and Siluro-Devonian commingling permitted in single spacing unit (Order 45-64).
OUTLOOK, WEST				
Winnipegosis	1	0	0	160-acre spacing units for Winnipegosis consisting of quarter sections; permitted wells in 840' square in the center of spacing unit and no closer than 900' to quarter section boundaries (Order 7-67 as amended by Order 26-67). Field reduction (Order 50-94).
OXBOW				
Red River	1	0	0	320-acre spacing units consisting of two contiguous governmental quarter sections which may be in one or two governmental sections lying east-west or north-south at operator's option; location to be no closer than 660' to the unit boundary or closer than 1,650' to a well producing from same pool (formations below 11,000) (Order 7-78). Field enlargement (Order 137-80).
OXBOW II				
Nisku	1	0	0	320-acre spacing units for Red River consisting of two contiguous quarter sections which may cross section lines; wells located no closer than 660' to spacing unit boundaries (Order 50-84).
Red River	1	0	0	
PALOMINO				
Nisku	5	0	0	Statewide.
PARK CITY				
Virgelle	0	0	1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
PELICAN	0	0	0	320-acre Ordovician spacing unit; well to be located no closer than 660' to any governmental section or quarter section line boundary (Order 21-79).
PENNEL				
Interlake	1	0	1	Field originally delineated with 80-acre spacing units consisting of E and W 1/2 of quarter section; wells located in center of SE 1/4 and NW 1/4 of quarter sections with 150' topographic tolerance (Order 15-61). 80-acre spacing units on west side and 160-acre spacing units on east side of pool wells to be located in SE 1/4 and NW 1/4 of each quarter section (80 acres) and in SE 1/4 of each quarter section on 160-acre spacing (Orders 1-56, 8-56, 15-61, 20-62, 4-63, 7-63). Spacing rules waived within unitized area (Order 24-68). Commingling approved (Order 59-62). Waterflood for Siluro-Ordovician (Order 24-68). Pennel Unit certified as expanded enhanced recovery unit effective 9/1/94 (Order 78-94).
Siluro-Ordovician	144	0	18	
Red River	29	0	2	
Stony Mountain	1	0	0	
PENNEL AREA				
Red River	4	0	0	Statewide.
PETE CREEK				
Sunburst	1	0	0	Statewide.
PHANTOM				
Sunburst	0	2	4	Gas: wells permitted anywhere within the unit but no closer than 990' to the unit boundary. Oil: wells with projected depths greater than 6,000' to be located no closer than 660' to the unit boundary; those with projected depths less than 6,000' to be located no closer than 330' to the unit boundary; formations between surface and top Rierdon included (Order 48-77).
PHANTOM, WEST				
Sunburst	0	2	0	Delineated for Sunburst Sandstone gas production with one well per spacing unit to be located no closer than 660' to the exterior boundaries of the three designated spacing units (Order 65-78).
PINE				
Madison	0	0	3	Statewide spacing rules are waived within the Pine Unit. 80-acre spacing units outside of unit area; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance (Order 37-62). A waterflood program for the south area was started in 1959. A waterflood of the north area was approved in 1967 (Orders 13-68, 1-60, 8-62, 32-67). Brine and CO2 injection test (Order 70-83). North Pine and South Pine Units certified as expanded enhanced recovery projects effective 9/1/94 (Orders 73-94, 74-94).
Mission Canyon	1	0	0	
Siluro-Ordovician	98	0	31	
POLICE COULEE				
Bow Island	0	7	2	320-acre spacing units for Bow Island Formation; location no closer than 990' to section line and 660' to half section lines; spacing units to consist of N 1/2 or S 1/2, E 1/2 or W 1/2 at discretion of operator (Order 53-76). Field enlargements (Orders 24-77, 20-79, and 46-79).
PONDERA				
Madison	351	0	66	Delineated for production from Ellis/Madison contact; 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 1,320' from the boundaries of any quarter section line, nor less than 3,700' from every other drilling or producible well on the same lease or unit (Order 9-54 corrected). Amend Order 9-54 to designate six 160-acre spacing units for gas with wells to be located no closer than 660' from unit boundaries (Order 26-83).
Sun River Dolomite	14	0	0	
PONDERA COULEE				
Madison	3	0	1	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance (Order 5-62).
Sun River Dolomite	5	0	0	
POPLAR AREA, NORTHWEST				
Charles	3	0	2	Statewide.
Charles C	3	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
POPLAR, EAST				
Heath	1	0	1	Statewide spacing; field delineated (Order 7-55). Redelineation of field (Order 25-76). Horizontal well exception and removal of production restrictions for horizontal wells (Order 67-93). Unitized in 1955 (Order 7-55).
Charles	3	0	0	
Charles B	1	0	0	
Charles C	1	0	0	
Madison	40	0	19	
Nisku	0	0	1	
POPLAR, NORTHWEST				
Charles	11	0	3	80-acre spacing units, E 1/2 and W 1/2 of each quarter section; wells located in the center of NW 1/4 or SE 1/4 of each quarter section; 75' tolerance for surface hazards and obstructions (Order 18-55). 80-acre designated spacing units with well location in the center of the NW 1/4 or SE 1/4 of each quarter section; 150' topographic or geologic tolerance (Order 26-76). 80-acre spacing units to be N 1/2 and S 1/2 or E 1/2 and W 1/2 of each quarter section; wells located in center of each NE 1/4 or SW 1/4 of each quarter section, 150' topographic or geologic tolerance (Orders 124-80, 83-83, 97-84 and 6-85). 80-acre spacing units for test wells to the Charles formation; spacing units to be N 1/2 and S 1/2 or E 1/2 and W 1/2 of each quarter section; wells in center of NE 1/4 or SW 1/4 of each quarter section, 150' tolerance for archeological reasons only (Order 161-81). Field enlargement with 80-acre spacing units consisting of N 1/2 and S 1/2 of each quarter section; wells in center of the NE or SW quarter of each quarter section with 150' topographic or geologic tolerance (Order 42-83).
Charles B	1	0	0	
Charles C	13	0	2	
Madison	1	0	0	
POTTER GAS				
	0	0	0	Single section delineated for production of gas from all formations between the surface and the top of the Jurassic Rierdon Formation with one designated well for the spacing unit (Order 8-93).
PRAIRIE DELL				
Bow Island	0	15	1	320-acre spacing units for all horizons above the Rierdon with well location no closer than 660' to spacing unit boundary (Order 10-76). Field enlargement by Orders 28-78, 24-79, 132-80, 40-81, 54-81, 142-81, 56-83, 9-85, 60-86 and 12-87. Two wells per spacing unit approved for a portion of the field, well locations no closer than 1,320' to a producing well from the same zone and 660' to the spacing unit boundary (Orders 21-88, 3-91, 35-92, 48-92 and 51-92). Two 160-acre spacing units (Order 3-89).
Bow Island, Dakota, Sunburst	0	27	3	
Bow Island, Dakota, Swift	0	21	0	
Bow Island, Sunburst	0	50	2	
Bow Island, Sunburst, Swift	0	18	0	
Bow Island, Dakota	0	24	0	
Sunburst	0	9	2	
Sunburst, Dakota	0	8	0	
Swift, Sunburst	0	2	0	
Bow Island, Dakota, Kootenai, Swift	0	4	0	
Bow Island, Dakota, Sunburst, Swift	0	56	0	
Bow Island, Swift	0	10	2	
Dakota, Sunburst, Swift	0	3	0	
Swift	0	10	0	
Madison	0	0	1	
PRAIRIE DELL, WEST				
Bow Island, Dakota, Kootenai, Sunburst	0	4	0	640-acre spacing unit for Swift Formation with well no closer than 990' to spacing unit boundary (Order 16-78). Amended to include all horizons above the Rierdon Formation (Order 54-78). Field enlarged (Order 55-78). Field enlarged and amended to allow 4 wells per spacing unit no closer than 1,320' to each other and no closer than 660' to the unit boundaries (Order 22-90).
Bow Island, Dakota, Swift	0	6	0	
Swift	0	1	0	
PRICHARD CREEK				
Bow Island	0	0	1	Sunburst/Swift spacing rules waived with locations subject to administrative approval. Unitized for Sunburst waterflood (Order 7-73).
Sunburst	0	0	6	
Swift	0	0	1	
PRONGHORN				
Red River	1	0	0	160-acre spacing units for Red River; wells located no closer than 660' to unit boundary with 150' topographic or geologic tolerance (Orders 75-84 and 110-84).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
PUTNAM				
Madison	1	0	0	Statewide, except for single spacing unit consisting of portions of Sections 15 and 16, T23N, R57E for production from all formations between 6,000 to 11,000 feet (Order 2-84 as amended by Order 11-85). Single Mission Canyon Formation spacing unit consisting of E/2 NE/4, Sec. 32 and W/2 NW/4, Sec. 33, T23N, R57E (Order 18-93).
Mission Canyon	6	0	1	
Ratcliffe	1	0	0	
Bakken	1	0	0	
Interlake	2	0	0	
Red River	2	0	1	
Red River, Interlake	2	0	0	
RABBIT HILLS				
Sawtooth	4	0	0	Statewide.
RABBIT HILLS, NORTHEAST				
Sawtooth	11	0	1	160-acre (quarter section) spacing units for Sawtooth, wells not less than 660' to spacing unit boundaries (Order 33-76, referring to Order 34-74). Field reduction (Order 98-83). Amended to allow 1 well per quarter quarter section no closer than 330' to the quarter quarter section line (Order 48-91).
RABBIT HILLS, SOUTHWEST				
Sawtooth	2	0	0	160-acre (quarter section) spacing units for Sawtooth, with wells not less than 660' from spacing unit boundaries (Order 33-76, referring to order 34-74). Allow 4 wells in NW 1/4 Section 24, T34N, R19E (Order 78-92). NE 1/4, Sec. 23 downspaced to 40-acre spacing units (Order 3-93).
RAGGED POINT				
Tyler	4	0	6	40-acre spacing units; 75' topographic tolerance (Order 8-59). Spacing waived for Tyler "A" sand reservoir within Tyler "A" Sand Unit except no well can be closer than 660' to unit boundary (Order 35-65). A waterflood project on the Tyler "A" sand was commenced in February 1966, using Third Cat Creek water (Order 35-65).
Madison	0	0	1	
RAGGED POINT, SOUTHWEST				
Tyler	9	0	1	Waterflood approval; applicants may drill and produce wells to the Tyler "A" Formation anywhere within the unit but not closer than 330' to the unit boundaries (Order 83-82).
RAINBOW				
Red River	1	0	0	Single 160-acre Red River spacing unit (Order 69-82).
RAPELJE				
Claggett	0	0	2	160-acre spacing for formations from surface to base, Telegraph Creek; wells no closer than 990' to unit boundary; commingling after administrative approval (Order 29-73).
Eagle	0	0	6	
Eagle, Virgelle	0	0	6	
RATTLER BUTTE				
Tyler	4	0	0	Rattler Butte (Tyler "A") Unit approved (Order 39-92).
RATTLESNAKE BUTTE				
Cat Creek 1	2	0	0	Statewide.
Cat Creek 2	1	0	1	
Amsden	6	0	0	
RATTLESNAKE COULEE				
Bow Island	0	0	2	Statewide.
Sunburst	0	1	0	
RAYMOND				
Mississippian Undifferentiated	3	0	6	320-acre spacing units for Red River, Winnipegosis, Duperow, and Nisku formations. Wells 660' from spacing unit boundary (Order 38-72). Gas Storage (Order 50-78 and amended by Order 60-79). Mississippian pool delineation with 40-acre spacing units, wells no closer than 330' to spacing unit boundary (Order 35-79). Field enlargement for Mississippian pool (Orders 31-80 and 128-80). Field reduction for Nisku pool (Order 135-81). Nisku Formation rules suspended for unit except for 660' setback distance from external unit boundaries (Order 3-86). Authorization to inject Duperow gas into the Nisku Formation (Order 135-81).
Duperow	0	1	0	
Nisku	2	1	0	
Winnipegosis	1	0	0	
Red River	2	0	0	
REAGAN				
Madison	52	1	14	Statewide. (Order 17-54) A pressure maintenance project utilizing gas injection was started in 1961 (Order 21-60). Waterflood (Order 27-72).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RED BANK				
Madison	4	0	0	Statewide.
Mission Canyon	3	0	1	
Ratcliffe	1	0	1	
Red River	1	0	1	
RED BANK, SOUTH				
Red River	1	0	0	Statewide.
RED CREEK				
Cut Bank	6	0	0	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, 31-64, 5-70) Field enlarged. (Order 9-62), redelineated. (Order 73-62). A waterflood project in the Cut Bank sand was initiated in June 1965, using Madison water.
Cut Bank, Madison	20	0	4	
Madison	8	0	0	
RED FOX				
	0	0	0	Field consists of one 160-acre spacing unit for Nisku production which straddles the section line (Order 20-67).
RED ROCK				
Eagle	0	6	4	Eagle Spacing units consisting of the N 1/2 and S 1/2 of section with permitted well to be no closer than 990' to exterior section line nor closer than 660' to half section line (Order 89-79).
Judith River	0	0	3	
RED WATER				
Bakken	1	0	0	Statewide.
RED WATER, EAST				
Red River	1	0	0	320-acre spacing units for Red River Formation consisting of 2 contiguous quarter sections with permitted well to be no closer than 660' to exterior boundaries of spacing unit (Order 31-83).
REDSTONE				
Winnipegosis	0	0	1	160-acre spacing units for production from the Winnipegosis; wells to be located no closer than 660' to spacing unit boundaries (Order 30-67).
REFUGE				
Red River	1	0	0	Statewide.
REPEAT				
Red River	0	0	1	Statewide.
RESERVE				
Red River	2	0	0	Delineated for Red River, Silurian, and Winnipegosis production with 160-acre spacing units; permitted well within 1,320' square in center of quarter section; Commingling of Red River and Interlake production permitted on individual well basis (Orders 34-66, 27-67). Field reduction (Order 68-85, 100-94).
RESERVE II				
Interlake	1	0	0	Single 160-acre spacing unit for Red River (Order 44-87). Single 160-acre spacing unit for Winnipegosis, Interlake and Gunton (Order 55-88).
Red River	1	0	0	
RESERVE, SOUTH				
Winnipegosis	1	0	0	Single spacing unit for Red River production (Order 33-86).
RICHEY				
Charles	1	0	2	Statewide, original 80-acre spacing revoked (Order 11-73).
RICHEY, SOUTHWEST				
Interlake	1	0	1	160-acre spacing units for production from Devonian, Silurian, and Ordovician; wells no closer than 900' to boundary of spacing unit (Order 25-62). A waterflood project in the Interlake and Dawson Bay was started in 1965 (Order 34-65).
RIDGELAWN				
Madison	3	0	0	160-acre Duperow spacing units; wells no closer than 660' to spacing unit boundary with 150' topographic tolerance (Order 18-89). Ridgelawn Duperow Unit approved for secondary recovery (Orders 49-89, 55-89 and 11-90).
Mission Canyon	8	0	0	
Ratcliffe	4	0	0	
Duperow	4	0	2	
Red River	3	0	0	
RIDGELAWN, NORTH				
Madison	1	0	0	Single 640-acre spacing unit (Order 11-92).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RIPRAP COULEE Ratcliffe	5	0	0	160-acre spacing units for Ratcliffe; wells located no closer than 660' from spacing unit boundary with 150' topographic and geologic tolerance (Order 93-84).
RIVER BEND Red River	1	0	0	Statewide.
ROCKY BOY AREA Eagle	0	5	0	Statewide.
ROCKY POINT Red River	1	0	0	320-acre Red River spacing unit; well to be located no closer than 660' to exterior boundary (Order 22-79).
ROSCOE DOME Lakota	0	0	3	Statewide. Steam injection into Greybull and Lakota formations (Order 40-82).
ROSEBUD Tyler	3	0	0	Statewide. Rosebud "Tyler B" waterflood unit approved (Order 30-91).
ROYALS Dawson Bay	1	0	0	Statewide.
RUDYARD Eagle	0	5	0	640-acre spacing units consisting of regular sections for Sawtooth gas production; well location in center of NW 1/4 of section with 75' topographic tolerance (Order 2-58). Field boundaries reduced (Order 39-76). Allow two wells per 640-acre spacing unit with a 990' setback from spacing unit boundaries, 1320' between wells in the same spacing unit (Order 15-93). Rudyard (Eagle) delineation: Eagle Formation with 640-acre spacing units and 2 wells per spacing unit to be located no closer than 330' to interior spacing unit boundaries, 990' to field boundaries (Order 33-94).
Sawtooth	1	2	1	
RUNAWAY Madison	0	0	1	Statewide.
RUSH MOUNTAIN Gunton	1	0	0	Statewide. Commingling of Gunton and Winnipegosis in Hoffelt #2 well approved (Order 17-85).
SAGE CREEK Second White Specks	0	13	6	640-acre spacing for horizons above the Kootenai, one producing well per section per formation to be located no closer than 990' from section line (Order 38-77). Amended field boundary (Order 86-79). Field enlargement (Orders 33-81, 65-83 and 36-84).
Blackleaf	0	3	0	
Bow Island	0	1	0	
SALT LAKE Nisku	2	0	1	Four 160-acre spacing units for Red River Formation with production allocation by stipulated agreement (Order 48-89).
Gunton	1	0	0	
Red River	2	0	1	
SALT LAKE, WEST Ratcliffe	1	0	0	Single 160-acre spacing unit for Ratcliffe oil and gas production (Order 47-92).
SANDWICH Swift	0	1	0	320-acre spacing units for production of gas from Swift; wells to be located no closer than 990' to spacing unit boundaries (Order 17-77).
SATURN Ratcliffe	0	0	1	Statewide.
SAWTOOTH MOUNTAIN & AREA Eagle	0	31	2	640-acre spacing units for Eagle and Judith River formations, one well per section per formation, location to be not less than 990' from governmental section line (Order 45-76). Amended to allow one well per formation per quarter section in six sections; wells no closer than 660' to quarter section lines and 990' to section lines (Order 65-85). Amended to allow 4 wells per formation per section for 3 additional sections (Ordered 62-89).
Judith River	0	3	3	
SECOND CREEK Mission Canyon	1	0	0	303.1-acre Red River spacing unit (Order 34-78). 160-acre Duperow spacing units; well locations for each unit to be as specified (Order 119-80).
Ratcliffe	1	0	1	
Duperow	0	0	1	
Red River	3	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SECOND GUESS Madison	2	0	0	40-acre spacing units for oil production from top 100' of Mississippian Madison Formation to the surface; wells to be located no closer than 330' to the spacing unit boundaries with 75' for topographic tolerance (Order 57-91).
SHELBY AREA Sunburst	0	1	0	Statewide.
SHELBY, EAST Bow Island	0	1	0	640-acre spacing units for all formations from the surface to the top of the Rierdon Formation (Order 8-91). Field enlarged and amended to allow 2 wells per spacing unit no closer than 990' to the section line and no closer than 990' to another well in the same section producing from the same horizon (Order 45-91). Field enlarged for Bow Island production (Order 61-91).
Burwash	0	1	0	
Sunburst	0	6	2	
Swift, Sunburst	0	2	0	
SHERARD Eagle	0	8	7	640-acre Eagle spacing units; 990' setback from section line (Order 1-74). 160-acre Eagle spacing units for Section 8, T25N, R17E; wells to be located no closer than 990' from section line, 660' from quarter section line (Order 7-77). Enlarged field boundary with well locations no closer than 660' from quarter section line in enlarged area (Order 4-83). 320-acre Eagle gas spacing units for Sections 19 and 30, T26N, R17E; wells located no closer than 990' to unit boundaries (Order 24-87).
Judith River	0	0	1	
SHERARD, AREA Eagle	0	35	36	Statewide, with numerous exceptions.
Judith River	0	2	4	
SHOTGUN CREEK Mission Canyon	1	0	0	Statewide.
Ratcliffe	2	0	0	
SHOTGUN CREEK, NORTH Mission Canyon	1	0	0	320-acre spacing units for Red River and Gunton production; wells to be located no closer than 660' to spacing unit boundaries and 1500' to another well producing from the same formation (Order 49-77).
SIDNEY Madison	4	0	0	160-acre spacing units for Madison group with one well per spacing unit to be located no closer than 660' from unit boundary and no closer than 1,650' to well producing from the same formation (Order 5-79). Field enlargement (Order 99-80).
Mission Canyon	3	0	0	
Ratcliffe	3	0	0	
Red River	2	0	0	
SIDNEY, EAST Madison	1	0	0	Statewide.
Mission Canyon	1	0	0	
SINGLETREE Nisku	1	0	0	Single spacing unit for production from Winnipegosis (Order 78-84).
Winnipegosis	0	0	1	
Red River	1	0	0	
SIOUX PASS Interlake	1	0	0	320-acre spacing units for Interlake and Red River consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option; permitted well no closer than 660' from unit boundary; 160-acre spacing units for Mission Canyon with well no closer than 660' from unit boundary; commingling of Interlake and Red River production authorized (Orders 10-75, 15-77). Amended field boundary (Order 15-77). Field reduction (Order 89-81).
Red River	4	0	0	
Red River, Interlake	6	0	0	
SIOUX PASS, EAST Red River	0	0	1	Statewide.
SIOUX PASS, MIDDLE Red River	5	0	0	320-acre spacing units for Red River Formation 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 1,650' from well producing from same formation; commingling permissible with Administrative approval (Order 55-76). Exception location (Order 39-81).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SIOUX PASS, NORTH				
Madison	3	0	0	320-acre spacing units for Red River, Interlake, Winnipegosis, Nisku, Madison; well locations at least 660' from unit boundary (Orders 12-75, 17-76, 8-79). Commingling approved (Order 17-76). 150' topographic tolerance (Order 10-81). Field extensions (Orders 12-77, 13-79 and 48-81). Two 320-acre spacing units for Duperow (Orders 107-80, 74-82).
Ratcliffe	3	0	0	
Red River	8	0	1	
Red River, Nisku	2	0	0	
SIOUX PASS, SOUTH				
Red River	2	0	0	Statewide.
SIXSHOOTER DOME				
Eagle	0	0	2	160-acre spacing units for gas production at a depth from 969' to 1500'; wells no closer than 660' to spacing unit boundary with 75' topographic tolerance (Order 18-92).
Lakota	0	3	1	
SNOOSE COULEE				
Bow Island	0	8	1	640-acre spacing units for Bow Island and shallower formations; location no closer than 990' to spacing unit boundary (Order 18-77). 320-acre Sunburst gas spacing unit approved (Order 58-88).
Sunburst	0	1	0	
SNYDER				
Tensleep	3	0	1	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance (Order 45-62).
SOAP CREEK				
Tensleep	8	0	2	One well per 10-acre spacing unit per producing formation; well location in center of spacing unit with 100' topographic tolerance. Delineation includes Madison, Amsden, and Tensleep formations (Order 26-60).
Amsden	1	0	0	
Madison, Amsden	10	0	4	
Madison	17	0	1	
SOAP CREEK, EAST				
Tensleep	3	0	0	Statewide.
SOBERUP COULEE				
Bow Island	0	1	0	320-acre 2nd Bow Island Sandstone spacing units, consisting of E 1/2 and W 1/2 of delineated section with locations no closer than 660' to spacing unit boundaries (Order 25-79).
SOUTH FORK				
Mission Canyon	1	0	0	Statewide.
Red River	2	0	0	
SPRING COULEE				
Greenhorn	0	0	1	Statewide.
Second White Specks	0	0	1	
Sawtooth	0	0	1	
SPRING LAKE				
Bakken	3	0	0	Delineated for Red River and Nisku formations with 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).
Nisku	0	0	1	
Red River	1	0	1	
SPRING LAKE, WEST				
Bakken	1	0	0	Single 160-acre Duperow spacing unit (Order 42-82).
STAMPEDE				
Bakken	1	0	0	320-acre specified spacing units for the Red River Formation; 160-acre spacing units for the Duperow Formation with well location to be no closer than 660' from a spacing unit boundary line (Order 19-82).
Red River	1	0	0	
STENSVAD				
Stensvad	1	0	0	40-acre spacing units; well location in center of spacing unit with 200' tolerance (Orders 2-59 and 7-60). Wells may be drilled anywhere within waterflood unit boundary, no closer than 660' to unit boundary (Order 5-65, amended). Field enlarged (Order 22-59). Waterflood area enlarged (Order 9-67).
Tyler	6	0	9	
STRAWBERRY CREEK AREA				
Bow Island	0	1	0	Statewide.
Burwash	0	1	0	
Sunburst	0	0	2	
STUDHORSE				
Tyler	2	0	3	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SUMATRA				
Amsden	2	0	1	40-acre spacing units; well located in center of unit with 75' tolerance (Order 14-58). Field redelineated (Orders 14-75 and 16-72). Vacuum pumps permitted on certain wells (Orders 99-79 and 32-80). Seven waterflood units using Madison water (Orders 48-67, 6-69, 19-69, 23-69, 5-75, 21-78, and 43-80). Convert CSTSU, SESTSU and Kincheloe Sumatra Unit to tertiary recovery projects (Orders 99-84, 100-84 and 29-85).
Lower Tyler	10	0	5	
Tyler	39	0	42	
Heath	1	0	0	
SUNNY HILL				
Madison	1	1	0	320-acre Red River & Duperow 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 1,650' to any well producing from same formation. 160-acre Madison spacing units consisting of regular quarter sections; location no closer than 660' to section or quarter section lines (Order 39-78). Field boundaries reduced (Order 79-84).
SUNNY HILL, WEST				
Madison	1	0	0	Single 320-acre spacing unit consisting of S/2, Sec. 14, T31N, R57E, with designated well (Order 55-93).
Ratcliffe	1	0	0	
SWANSON CREEK				
Bowdoin	0	1	0	320-acre spacing units (Order 36-75), amended to enlarge field and provide that spacing units may run north-south or east-west with permitted wells to be no closer than 990' to section or quarter section lines (Order 11-78). Field boundaries extended by Orders 32-78, 92-79, 66-80 and 55-81. All previous Swanson Creek orders are amended to allow one additional well in each existing 320-acre spacing unit that shall be drilled in a manner that there be no more than one well per quarter section and located no closer than 660' to the quarter section boundaries (Order 28-82).
Greenhorn-Phillips	0	14	0	
Phillips	0	64	0	
SWEETGRASS				
Sunburst	0	1	0	Single Sunburst gas spacing unit (Order 121-82).
SWEETGRASS AREA				
Sunburst	0	1	0	Statewide.
TARGET				
Madison	0	0	3	Single spacing unit for Mission Canyon/Ratcliffe formations (Order 18-82). Amendment to Order 18-82 for field enlargement and establishing 160-acre spacing units with permitted well locations to be no closer than 660' to the unit boundaries; 150' tolerance for topographic reasons (Order 35-82). Field enlargement (Order 23-84).
Mission Canyon	0	0	2	
Ratcliffe	3	0	3	
Madison, Nisku	0	0	2	
Nisku	2	0	0	
THIRTY MILE				
Sawtooth	0	0	2	Statewide.
THREE BUTTES				
Bakken	1	0	0	160-acre spacing units for Madison Group formations, with well location no closer than 660' from governmental quarter section line or unit boundary (Order 11-81).
Red River	2	0	0	
THREE MILE				
Eagle	0	2	4	Statewide.
TIBER				
Bow Island	0	1	2	Two wells per each gas producing horizon per section, from the surface down to and including the Kootenai Formation; 990' setbacks and 1,320' between wells in each section (Orders 143-81, 21-84 and 28-85).
TIBER, EAST				
Bow Island	0	7	0	Two wells from same Bow Island horizon per section no closer than 990' to section lines and 1,320' to each other (Orders 21-84 and 28-85).
TIGER RIDGE				
Eagle	0	306	123	Field delineation and redelineations (Orders 17-67, 23-68, 10-70, 13-75, 46-78, 48-79, 26-80, 30-89, 10-90 and 66-91). Statewide spacing for field area not unitized. Numerous spacing rule amendments.
Judith River	0	4	1	
TIGER RIDGE AREA				
Eagle	0	0	1	Statewide.
TIGER RIDGE, NORTH				
Eagle	0	0	1	160-acre spacing units; one well per horizon per spacing unit from the Virgelle Formation to the surface; well to be no closer than 990' to the section line nor closer than 660' to the interior quarter section line (Order 80-79).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
TIMBER CREEK	0	0	0	320-acre Sunburst Sandstone spacing units consisting of two contiguous quarter sections oriented either North-South or East West; locations no closer than 660' to internal spacing unit boundaries, or 990' to external boundaries (Order 24-75).
TIMBER CREEK, WEST Sunburst	0	1	0	Single 640-acre spacing unit for Sunburst Sandstone production in Sec. 6, T35N, R1E (Order 91-76).
TINDER BOX Tyler	1	0	0	Statewide.
TRAIL CREEK Bow Island	0	4	2	One well per 320-acres consisting of S 1/2 and N 1/2 of each governmental section but not closer than 990' from spacing boundary (Orders 33-70, 28-76). Field enlargements (Order 135-80).
Sunburst	0	2	0	
Swift, Sunburst	0	2	0	
TULE CREEK Devonian	1	0	0	160-acre spacing units with permitted well anywhere within 1,320' square in center of each unit (Orders 26-62, 6-65, 11-67, 5-77, 52-86).
Nisku	2	0	1	
TULE CREEK, EAST Nisku	1	0	0	160-acre Nisku spacing units for Devonian Nisku with permitted well anywhere within 1,320' square in center of each unit (Orders 40-64, 6-65, 4-86).
TULE CREEK, SOUTH Nisku	1	0	1	160-acre Nisku spacing units with permitted well anywhere within a 1,320' square in center of each unit (Orders 34-64, 6-65).
TWO FORKS Eagle	0	0	1	Statewide.
Judith River	0	0	1	
TWO WATERS Bakken	3	0	0	Statewide.
UTOPIA Bow Island	0	4	0	640-acre spacing units for formations between top of Kootenai, and top of Greenhorn; well location may be anywhere within the unit but no closer than 990' to any governmental section line (Order 13-80). 40-acre spacing units for Swift Formation; location to be in center of quarter-quarter section with no more than 100' topographic tolerance (Order 9-78). Order 9-78 amended; spacing units shall consist of 1 well per quarter-quarter section no closer than 330' to the section boundary (Order 96-81). Utopia Swift Unit approved for secondary recovery (Orders 11-89, 38-89 and 33-90). Certification as expanded enhanced recovery project effective 10/1/94 (Order 88-94).
Swift	22	0	4	
Sawtooth	0	2	0	
VALIER Blackleaf	0	0	2	320-acre spacing units for production of gas from all formations from the top of the Kootenai Formation to the surface; one well per spacing unit per formation, wells no closer than 660' to spacing unit boundaries and 990' to field boundaries (Order 15-91).
VANDALIA Bowdoin	0	8	0	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn, and Phillips) exist a well may be drilled to each discrete formation; wells to be located no closer than 660' to the spacing unit boundaries (Order 61-82).
VAUX Madison	11	0	0	Single spacing unit with commingling approved for Madison group (Order 63-83). Single spacing unit for Mississippian Bakken formation (Order 20-86). Single 160-acre spacing unit for Mission Canyon Formation (Order 25-87).
Mission Canyon	6	0	1	
Ratcliffe	3	0	0	
Bakken	2	0	0	
Interlake	1	0	0	
Red River	2	0	1	
Stonewall	1	0	0	
VOLT Madison	1	0	0	160-acre Nisku spacing units with permitted well anywhere within a 1,320' square in center of each unit (Orders 27-64, 6-65, 32-65).
Nisku	4	0	0	

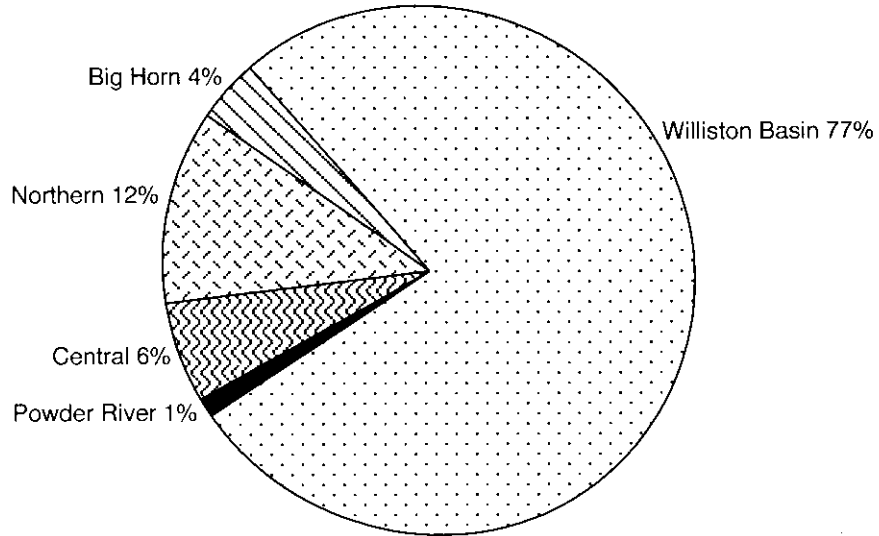
OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WAKEA				
Nisku	2	0	0	Two 320-acre spacing units (Order 84-83). Field enlarged; wells located no closer than 660' to spacing unit boundaries. Delineation includes Red River, Nisku, Duperow, Winnipegosis, Interlake and Gunton formations (Order 34-84). Commingling of production from Nisku and Duperow formations approved for one well (Order 59-91).
Nisku, Duperow	2	0	0	
Winnipegosis	2	0	0	
Gunton	1	0	0	
Red River	3	0	0	
WEED CREEK				
Amsden	1	0	1	Statewide.
WEST BUTTE				
Bow Island	0	3	1	Sawtooth-Madison gas commingled, unitized; no well closer than 330' to unit boundary (Order 5-72).
Sunburst	2	0	4	
WEST BUTTE SHALLOW GAS				
Bow Island	0	2	0	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' to the spacing unit boundaries (Order 39-77).
WEYGAND				
Sawtooth	3	0	1	Statewide.
WHITEWATER				
Bowdoin	0	99	0	640-acre spacing units with 2 wells per formation (Orders 41-82 and 14-89). Amend to allow 4 wells per formation per spacing unit no closer than 660' to spacing unit boundaries, 1,320' between wells producing from the same formation with 150' of tolerance for geologic or topographic reasons (Order 15-89). Pilot infill drilling program approved for a portion of the field with up to 8 wells per spacing unit with between-well distance reduced to 990' (Order 15-91). Expand pilot infill drilling program (Order 6-92).
Bowdoin, Greenhorn	0	40	0	
Bowdoin, Greenhorn, Phillips	0	147	0	
Greenhorn	0	22	0	
Greenhorn-Phillips	0	136	14	
Phillips	0	3	0	
WHITEWATER, EAST				
Bowdoin	0	9	0	640-acre spacing units with two wells allowed per formation to be located anywhere within the spacing unit but not closer than 990' to spacing unit boundary (Order 100-83). Amend to allow 4 wells per formation per spacing unit no closer than 1,320' to another well producing from the same formation with 150' tolerance for geologic or topographic reasons (Order 65-89). Pilot infill drilling program in Section 31, T33N, R34E allowing up to 8 wells with 990' between wells, 150' tolerance and 660' setbacks (Order 7-92).
Bowdoin, Greenhorn, Phillips	0	9	0	
Greenhorn-Phillips	0	16	0	
Phillips	0	2	1	
WHITLASH				
Bow Island	5	26	2	Gas: 300' from legal subdivision line and 2,400' between wells, 75' topographic tolerance. Oil: 330' from legal subdivision line and 650' between wells; 5-spot location at center of 40-acre tract permitted; 75' topographic tolerance (Orders 16-54, 27-70). Order 16-54 amended to include S 1/2 of Section 30, T37N, R4E. SW 1/4 of 30 is 1 spacing unit, SE 1/4 is the other; well location no closer than 990' from spacing unit boundary (Order 45-81).
Bow Island Spike	0	2	0	
Bow Island, Dakota	0	4	0	
Dakota	5	0	10	
Sunburst	0	1	3	
Swift, Sunburst	30	2	48	
Swift	23	6	17	
Madison	0	1	0	
WHITLASH, WEST				
Bow Island	0	1	0	Gas: 160-acre spacing units consisting of quarter sections; well location anywhere within a 660' square in center of spacing unit. Oil: 330' from legal subdivision line, 650' between wells in same reservoir on same lease; 5-spot location permitted (Orders 61-62, 22-65 as amended). Orders 61-62 amended by Order 48-77. Field extension (Order 18-79).
Sunburst	1	5	5	
Swift, Sunburst	2	0	6	
WILLIAMS				
Bow Island	0	15	3	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, 11-83).
WILLOW CREEK, NORTH				
Tyler	2	0	2	Statewide. Pilot waterflood (Order 19-72).
WILLOW RIDGE				
Bow Island	0	10	2	640-acre spacing units; location to be no closer than 990' to unit boundary for gas production from all formations from the surface to the top of the Kootenai (Order 29-78). 40-acre spacing units for oil production from the Burwash, with 5 wells permitted in each spacing unit; 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).
Burwash	4	0	0	
Dakota	0	1	0	
Sunburst	0	1	0	
Swift	0	1	0	

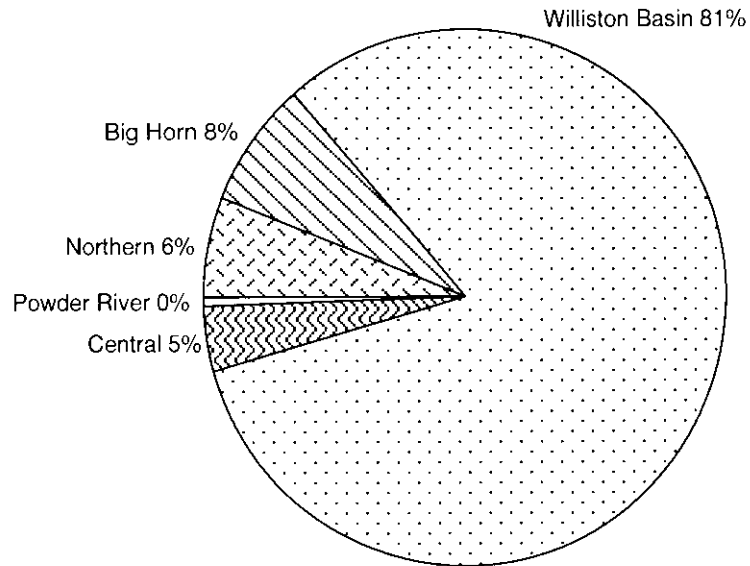
OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WILLOW RIDGE, SOUTH Sunburst	0	1	1	Statewide.
WILLOW RIDGE, WEST Bow Island	0	4	1	Delineated for gas production from the 4th Bow Island sand; 640-acre spacing units, wells to be located no closer than 990' to spacing unit boundaries (Order 3-88).
WILLS CREEK, SOUTH Siluro-Ordovician	2	0	1	160-acre spacing units for Siluro-Ordovician; well location in center of SE 1/4 of each unit with 175' topographic tolerance (Orders 5-64, 30-66). Waterflood initiated 12-1-73 (Order 23-73).
WINNETT JUNCTION Tyler	3	0	1	20-acre spacing units to be designated as W 1/2 and E 1/2 of quarter-quarter section, no closer than 120' to the boundary of a spacing unit (Order 57-76). Certain lands bound by Order 57-76 vacated by Order 41-77. A waterflood operation commenced October 1, 1977 into Tyler Formation. (Order 41-77)
WOLF SPRINGS Amsden	4	0	1	80-acre Amsden spacing units consisting of N 1/2 and S 1/2 of each quarter section; well location in center of NW 1/4 and SE 1/4 of each quarter section with 75' topographic tolerance (Orders 4-56, 9-59). Boundary changes (Order 92-76 and 5-90).
WOLF SPRINGS AREA Amsden	1	0	0	Statewide.
WOLF SPRINGS, SOUTH Amsden	4	0	3	80-acre spacing units for Amsden comprised of W 1/2 or E 1/2 of quarter section; wells located center of NW 1/4 or SE 1/4 of quarter section with 150' topographic tolerance (Order 57-84). Field enlargement (Order 8-85). South Wolf Springs Amsden Unit approved (Order 23-92). Certified as expanded enhanced recovery unit effective 6/29/94 (Order 52-94).
WOODROW Charles	1	0	0	80-acre spacing units consisting of any two adjacent quarter-quarter sections; well locations in center of NE 1/4 and SW 1/4 of each quarter section with 200' topographic tolerance (Order 47-62).
Charles, Interlake	2	0	0	
Interlake	0	0	1	
Interlake, Stony Mountain	0	0	2	
WRANGLER Red River	2	0	0	320-acre spacing units for production from Red River Formation consisting of W 1/2 and E 1/2 of S25 T34N R56E (Order 44-85).
WRANGLER, NORTH Red River	1	0	0	Statewide.
WRIGHT CREEK Muddy	6	0	1	80-acre spacing units for Muddy Sandstone production consisting of N 1/2 and S 1/2 of quarter section with locations in NW 1/4 and SE 1/4 of each quarter section with 200' tolerance (Order 27-69). Field area reduction (Order 69-76).
YATES	0	0	0	320-acre spacing units; well locations as specified for the Duperow and Red River formations that may be dually completed (Order 92-81). Single 320-acre spacing unit for Ratcliffe/Mission Canyon formations (Order 22-86).

1994 Oil Production by Region 16,530,980 Barrels



1994 Oil Reserves by Region 140 Million Barrels



SUMMARY OF PRODUCING

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	PORO-SITY(%)	% WATER	RECOVER FACTOR	
											PRIM.	SE
1	Anvil	Nisku/Winn	Roosevelt	1981	10900	40.0	1.50	14	17	34	55	
2	Anvil	Ratcliffe	Roosevelt	1982	8990	36.0	1.35	22	11	50	12	
3	Anvil	Red River	Roosevelt	1978	12600	47.0	1.63	26	14	32	11	
4	Ash Creek	Shannon	Big Horn	1952	4500	34.0	1.00	14	22	42	26	
5	Bainville	Ratcliffe	Roosevelt	1988	8630	38.0	0.00	16	0	0	0	
6	Bainville	Siluro/Ord.	Roosevelt	1969	12402	44.0	0.00	8	25	31	0	
7	Bainville II	Red River	Roosevelt	1981	12700	42.0	1.20	40	10	35	6	
8	Bainville, North	Madison*	Roosevelt	1980	8800	30.0	0.00	13	14	52	0	
9	Bainville, North	Red River/Interlake	Roosevelt	1979	12400	43.0	1.55	40	9	32	6	
10	Bainville, North	Winnipegosis	Roosevelt	1979	11400	44.0	1.60	35	7	20	16	
11	Bainville, West	Red River	Roosevelt	1978	8500	34.0	1.50	12	6	45	13	
12	Beanblossom	Lower Tyler	Garfield	1985	4562	32.0	1.05	22	21	35	5	
13	Bell Creek	Muddy	Powder River	1967	4400	36.0	1.11	10	26	23	29	3
14	Benrud, East	Nisku	Roosevelt	1962	7500	46.0	1.37	22	15	30	37	
15	Benrud, Northeast	Nisku	Roosevelt	1964	7400	46.0	1.40	23	16	30	46	
16	Big Muddy Creek	Red River	Roosevelt	1975	11900	48.0	1.72	11	14	36	22	
17	Big Wall	Amsden	Musselshell	1953	2500	19.0	1.01	17	16	35	33	
18	Big Wall	Lower Tyler Unit	Musselshell	1948	3000	31.0	1.02	22	17	40	34	
19	Big Wall	Upper Tyler Unit	Musselshell	1948	3000	30.8	1.03	16	17	32	4	
20	Blackfoot	Devonian/Madison	Glacier	1957	3500	30.0	1.10	15	15	35	21	3
21	Bloomfield	Interlake/Red River	Dawson	1983	10650	43.0	1.32	13	4	0	21	
22	Bowes Sawtooth Unit	Sawtooth	Blaine	1949	3300	19.0	1.02	32	12	31	14	
23	Brady	Morrison/Sunburst*	Pondera	1942	1500	34.0	1.01	10	12	30	5	
24	Breed Creek	Tyler	Roosevelt	1976	4900	32.0	1.15	20	15	37	41	
25	Brorson	Madison	Richland	1954	9600	32.0	1.40	40	5	40	15	
26	Brorson	Red River	Richland	1968	12600	48.0	1.70	20	10	35	48	
27	Brorson, South	Madison	Richland	1978	9000	42.0	0.00	52	0	0	0	
28	Brush Lake	Red River	Sheridan	1969	11400	40.0	1.50	30	14	35	9	
29	Burget, East	Madison	Roosevelt	1981	9000	0.0	0.00	36	0	0	0	
30	Cabin Creek Unit 1	Siluro/Ord.	Fallon	1953	9000	33.0	1.20	50	13	30	17	
31	Cabin Creek Unit 2	Madison	Fallon	1956	7300	33.0	1.13	25	11	30	53	
32	Canal	Madison	Richland	1977	9200	33.0	1.30	47	2	41	29	
33	Canal	Red River	Richland	1970	12700	47.0	2.07	58	8	40	22	
34	Carlyle	Red River	Wibaux	1978	10700	37.0	1.30	12	12	27	9	
35	Cat Creek East Dome	Ellis	Petroleum	1920	1200	52.0	1.10	6	22	40	33	
36	Cat Creek Mosby	Ellis	Petroleum	1945	1700	52.0	1.10	25	18	40	11	
37	Cat Creek West Dome	1st and 2nd Cat	Petroleum	1920	1100	52.0	1.10	51	21	19	17	
38	Cattails	Ratcliffe	Richland	1987	8975	31.6	0.00	0	0	0	0	
39	Cattails South	Ratcliffe	Richland	1991	9445	0.0	0.00	0	0	0	0	
40	Charlie Creek, East	Red River	Richland	1980	11900	45.0	0.00	27	0	0	0	
41	Clear Lake	Madison	Sheridan	1978	7600	33.0	1.15	10	5	30	40	
42	Clear Lake	Red River	Sheridan	1977	11200	42.0	1.65	32	18	35	8	
43	Clear Lake, South	Red River	Sheridan	1984	11500	38.0	1.39	10	23	21	4	
44	Colored Canyon	Red River	Sheridan	1978	11300	40.0	1.40	18	13	28	5	
45	Comertown	Bakken/Nisku	Sheridan	1983	10672	36.0	1.30	13	17	39	12	
46	Comertown	Red River	Sheridan	1980	10500	30.0	1.30	19	10	38	40	
47	Comertown, South	Red River/Nisku	Sheridan	1984	11000	38.0	1.08	17	12	50	5	
48	Cottonwood	Ratcliffe	Richland	1992	8805	0.0	0.00	12	0	0	0	
49	Cottonwood, East	Ratcliffe	Roosevelt	1990	8842	31.5	0.00	36	0	46	0	
50	Cow Creek, East	Kibby	McCone	1971	6300	35.0	1.05	15	15	0	10	
51	Crane	Devonian	Richland	1979	11900	47.0	1.65	20	12	35	22	
52	Crane	Siluro/Ord.	Richland	1979	12700	44.4	1.50	8	12	18	31	
53	Cupton	Red River	Fallon	1955	9600	38.0	1.25	40	12	16	5	
54	Cut Bank	Total Production	Glacier/Toole	1932	2900	31.0	1.09	18	15	35	22	
55	Dagmar	Red River	Sheridan	1976	11300	37.0	1.65	22	16	35	5	
56	Dagmar, North	Madison	Sheridan	1983	7952	0.0	0.00	24	0	0	0	
57	Deer Creek	Charles	Dawson	1990	7870	30.2	1.00	10	13	50	16	
58	Diamond Point	Red River	Roosevelt	1976	11900	47.0	0.00	26	0	0	0	
59	Divide	Madison/Ratcliffe	Sheridan	1979	7900	33.0	1.35	25	7	42	18	
60	Divide	Red River	Sheridan	1987	11398	0.0	0.00	0	0	0	0	
61	Dooley	Ratcliffe	Sheridan	1987	6451	28.0	0.00	0	0	0	0	
62	Dutch John Coulee	Sunburst	Toole	1985	2040	48.0	1.20	12	21	30	9	
63	Dwyer	Nisku	Sheridan	1987	9120	0.0	0.00	0	0	0	0	
64	Dwyer	Red River	Sheridan	1982	11552	35.0	0.00	0	0	0	0	

PRODUCING OIL FIELDS —1994

RECOVERY FACTOR %		PRO-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1994 PRODUCTION		CUMUL. PROD. 1-95 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
55	0	320	2600	8125	1430	0	1430	4469	319	47318	130	1059	371	1
12	0	320	2225	6953	260	0	260	813	37	9826	27	215	45	2
11	0	2560	30159	11780	3330	0	3330	1301	50	79648	218	3057	273	3
26	6	200	2772	13860	710	180	890	4450	318	3621	10	858	32	4
0	0	160	0	0	0	0	0	0	0	5645	15	50	14	5
0	0	1920	0	0	0	0	0	0	0	24992	68	547	199	6
6	0	960	16137	16809	890	0	890	927	23	32628	89	638	252	7
0	0	480	0	0	0	0	0	0	0	41523	114	223	320	8
6	0	2240	27446	12252	1540	0	1540	688	17	119454	327	1131	409	9
16	0	960	9123	9503	1470	0	1470	1531	44	56743	155	876	594	10
13	0	960	1966	2047	260	0	260	271	23	5817	16	231	29	11
5	0	480	10650	22187	580	0	580	1208	55	22947	63	459	121	12
29	30	16000	223878	13992	64570	67650	132220	8264	826	73995	203	131838	382	13
37	0	640	8372	13081	3080	0	3080	4813	219	21063	58	2914	166	14
46	0	160	2284	14275	1040	0	1040	6500	283	4793	13	1012	28	15
22	0	1280	5690	4445	1260	0	1260	984	89	6814	19	1241	19	16
33	0	320	4346	13581	1420	0	1420	4438	261	28527	78	1134	286	17
34	1	1220	20822	17067	7000	230	7230	5926	269	30974	85	6840	390	18
4	0	480	6687	13931	290	0	290	604	38	11346	31	96	194	19
21	30	360	3713	10313	770	1100	1870	5194	346	29141	80	1670	200	20
21	0	640	1956	3056	410	0	410	641	49	10604	29	377	33	21
14	0	3760	75774	20152	10820	0	10820	2878	90	122348	335	10385	435	22
5	0	680	4387	6451	230	0	230	338	34	5958	16	212	18	23
41	0	480	6120	12750	2520	0	2520	5250	263	77413	212	1600	920	24
15	0	1760	11703	6649	1740	0	1740	989	25	53743	147	1486	254	25
48	0	960	5695	5932	2740	0	2740	2854	143	36037	99	2466	274	26
0	0	480	0	0	0	0	0	0	0	25715	70	188	205	27
9	0	2240	31628	14119	2940	0	2940	1313	44	32581	89	2814	126	28
0	0	640	0	0	0	0	0	0	0	13018	36	230	80	29
17	6	15360	451826	29415	78140	25600	103740	6754	135	1310934	3592	83088	20652	30
53	0	2260	29868	13215	15760	0	15760	6973	279	81747	224	15009	751	31
29	0	640	2118	3309	620	0	620	969	21	16055	44	526	94	32
22	0	320	3339	10434	750	0	750	2344	40	10249	28	695	55	33
9	0	640	4015	6273	350	0	350	547	46	6142	17	321	29	34
33	4	880	4915	5585	1620	200	1820	2068	345	5631	15	1782	38	35
11	1	880	16757	19042	1910	100	2010	2284	91	5400	15	1978	32	36
17	4	1480	90551	61183	15330	3760	19090	12899	253	32158	88	18730	360	37
0	0	1120	0	0	0	0	0	0	0	69715	191	705	243	38
0	0	640	0	0	0	0	0	0	0	20609	56	123	90	39
0	0	960	0	0	0	0	0	0	0	59940	164	582	578	40
40	0	960	2267	2361	900	0	900	938	94	35562	97	651	249	41
8	0	2240	39432	17603	2970	0	2970	1326	41	70948	194	2569	401	42
4	0	640	6490	10140	250	0	250	391	39	8413	23	195	55	43
5	0	1920	17926	9336	850	0	850	443	25	7508	21	843	7	44
12	0	640	5149	8045	640	0	640	1000	77	14621	40	561	79	45
40	0	800	5624	7030	2230	0	2230	2788	147	66063	181	1816	414	46
5	0	960	7034	7327	380	0	380	396	23	19471	53	281	99	47
0	0	320	0	0	0	0	0	0	0	34364	94	93	189	48
0	0	160	0	0	0	0	0	0	0	10419	29	58	97	49
10	0	1600	26599	16624	2720	0	2720	1700	113	20947	57	2587	133	50
22	0	960	7041	7334	1570	0	1570	1635	82	30626	84	1428	142	51
31	0	960	3909	4071	1220	0	1220	1271	159	56650	155	1042	178	52
5	0	2240	56054	25024	3000	0	3000	1339	33	48894	134	2501	499	53
22	6	49000	612063	12491	132350	34440	166790	3404	189	553765	1517	164600	2190	54
5	0	1280	13770	10757	700	0	700	547	25	14798	41	614	86	55
0	0	160	0	0	0	0	0	0	0	3168	9	52	13	56
16	0	480	2420	5041	380	0	380	792	79	39009	107	82	298	57
0	0	640	0	0	0	0	0	0	0	40103	110	960	428	58
18	0	2240	13066	5833	2380	0	2380	1063	43	58981	162	1949	431	59
0	0	1280	0	0	0	0	0	0	0	80593	221	581	287	60
0	0	640	0	0	0	0	0	0	0	19817	54	267	47	61
9	0	200	2281	11405	200	0	200	1000	83	5308	15	189	11	62
0	0	160	0	0	0	0	0	0	0	8194	22	49	9	63
0	0	1600	0	0	0	0	0	0	0	60799	167	1473	477	64

SUMMARY OF PRODUCING

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR	
											PRIM.	SEC.
65	Dwyer Non Unit	Ratcliffe	Sheridan	1960	8000	0.0	0.00	0	0	0	0	
66	Dwyer Unit	Charles	Sheridan	1960	8000	37.0	1.32	38	11	56	14	
67	Eagle	Bakken/Duperow	Richland	1980	10696	40.0	0.00	24	0	0	0	
68	Eagle	Madison	Richland	1977	8900	32.0	1.22	15	9	35	10	
69	Elk Basin	Frontier	Carbon	1915	1400	0.0	0.00	0	0	0	0	
70	Elk Basin	Madison	Carbon	1942	5300	28.0	1.12	224	12	9	4	
71	Elk Basin	Tensleep	Carbon	1942	5000	29.0	1.16	124	11	10	26	
72	Elk Basin NW	Madison/Tensleep	Carbon	1964	6000	37.0	1.15	27	12	22	7	
73	Enid, North	Red River	Richland	1979	11800	47.0	1.75	8	7	34	34	
74	Fairview	Interlake	Richland	1983	12120	44.0	1.40	10	6	49	7	
75	Fairview	Madison	Richland	1981	9520	34.0	1.60	45	4	51	16	
76	Fairview East	Winnipegosis	Richland	1990	11590	36.8	0.00	7	8	30	0	
77	Fairview NW Unit	Red River	Richland	1965	12700	0.0	0.00	0	0	0	0	
78	Fairview Non Unit	Red River	Richland	1965	12700	47.0	1.70	35	11	28	22	
79	Fairview, West	Madison	Richland	1980	9200	37.0	0.00	60	3	0	0	
80	Fertile Prairie	Red River	Fallon	1952	9300	29.0	1.20	6	14	27	29	
81	Fishhook	Red River	Sheridan	1980	11200	41.0	1.28	10	10	31	21	
82	Flat Coulee Unit	Swift	Liberty	1933	2900	37.0	1.10	18	21	35	17	
83	Flat Lake	Madison/Nisku	Sheridan	1964	6500	33.0	1.26	14	15	45	25	
84	Flat Lake, East	Madison	Sheridan	1984	6523	28.0	0.00	0	0	0	0	
85	Flat Lake, South	Ratcliffe	Sheridan	1966	6500	32.0	1.26	9	12	45	31	
86	Fort Gilbert	Madison	Richland	1981	9200	35.0	1.30	30	6	55	8	
87	Fort Gilbert	Red River	Richland	1970	12500	48.0	1.89	42	12	20	7	
88	Four Mile Creek	Red River	Richland	1975	12500	47.0	1.50	35	15	35	8	
89	Four Mile Creek, West	Red River	Richland	1976	12500	45.0	1.30	15	13	40	12	
90	Fred & George Creek	Swift/Sunburst	Toole	1963	2600	39.0	1.20	31	27	30	15	
91	Frog Coulee	Red River	Richland	1979	11000	49.0	1.42	15	18	35	8	
92	Froid, South	Red River	Roosevelt	1970	12100	48.0	1.55	12	17	25	11	
93	Gas City	Red River/Madison	Dawson	1955	8900	38.0	1.28	25	12	35	27	
94	Girard	Red River	Richland	1985	11850	43.6	0.00	8	0	9	0	
95	Glendive	Siluro/Ord.	Dawson	1952	8900	38.0	1.24	147	8	35	13	
96	Goose Lake	Ratcliffe	Sheridan	1962	7000	34.0	1.20	40	16	55	5	
97	Goose Lake	Red River	Sheridan	1980	11063	0.0	0.00	0	0	0	0	
98	Goose Lake, West	Red River	Sheridan	1981	11500	39.0	0.00	29	0	0	0	
99	Gossett	Madison	Richland	1979	9550	31.0	0.00	0	0	0	0	
100	Gossett	Red River	Richland	1983	12331	0.0	0.00	11	0	0	0	
101	Gray Blanket	Tensleep	Big Horn	1991	6115	22.0	1.05	9	18	18	17	
102	Gunsight	Madison	Roosevelt	1980	9550	36.0	0.00	0	0	0	0	
103	Hay Creek	Mission Canyon	Richland	1969	9600	39.0	1.15	40	5	0	8	
104	Hay Creek	Siluro/Ord.	Richland	1969	12600	46.0	1.90	53	12	30	7	
105	Hiawatha	Tyler	Musselshell	1967	5000	33.0	1.15	34	12	25	21	
106	High Five	Tyler/Stensvad	Rosebud	1976	5600	33.0	1.15	20	20	0	12	
107	Intake II	Madison	Richland	1982	9200	32.3	0.00	10	13	43	0	
108	Ivanhoe	Morrison	Musselshell	1960	4135	33.0	1.10	11	15	40	7	
109	Jim Coulee Unit	Tyler	Musselshell	1971	3700	33.0	1.10	37	15	33	3	
110	Katy Lake	Red River	Sheridan	1984	11523	0.0	0.00	11	0	0	0	
111	Katy Lake, North	Mission Canyon	Sheridan	1981	8056	35.0	1.34	18	18	57	24	
112	Katy Lake, North	Nesson	Sheridan	1981	7798	34.0	1.50	20	12	31	9	
113	Katy Lake, North	Red River	Sheridan	1979	11300	46.0	1.42	19	15	30	23	
114	Keg Coulee Tyler SU	Tyler	Musselshell	1960	4600	33.0	1.00	19	14	32	27	
115	Kelley	Tyler	Musselshell	1966	4400	33.0	1.15	50	13	30	14	
116	Kevin, East Nisku Oil	Nisku	Toole	1984	3000	39.0	1.10	7	9	30	40	
117	Kincheloe Ranch, West	Tyler Non Unit	Rosebud	1980	5344	38.0	0.00	18	0	0	0	
118	Kincheloe Ranch, West	Tyler Unit	Rosebud	1979	5500	32.1	1.10	8	13	40	89	
119	Lambert	Red River	Richland	1980	12200	44.0	0.00	7	13	40	0	
120	Landslide Butte	Madison/Sun River	Glacier	1967	4700	41.0	0.00	24	0	0	0	
121	Leary	Muddy	Powder River	1969	5800	41.0	1.15	7	17	33	32	
122	Little Beaver Unit	Red River	Fallon	1952	8300	29.0	1.29	37	12	35	7	
123	Little Beaver, East	Red River	Fallon	1954	8300	30.0	1.50	24	13	35	42	
124	Little Wall Creek	Tyler/Stensvad	Musselshell	1970	3700	33.0	1.10	40	15	33	19	
125	Lodge Grass	Minnelusa	Big Horn	1964	6520	22.0	1.16	15	15	34	6	
126	Lone Butte	Madison	Richland	1987	9146	0.0	0.00	13	0	0	0	
127	Lone Butte	Red River	Richland	1974	12544	45.0	1.70	14	11	30	16	
128	Lonetree Creek	Mission Canyon	Richland	1991	9147	35.1	0.00	0	0	50	0	
129	Lonetree Creek	Red River	Richland	1970	12500	47.0	1.86	19	11	30	23	
130	Long Creek, West	Nisku	Roosevelt	1977	7700	39.0	1.25	24	16	20	16	

PRODUCING OIL FIELDS —1994

RECOVERY FACTOR %		PRO-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1994 PRODUCTION		CUMUL. PROD. 1-95 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECD.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECD. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
0	0	1440	0	0	0	0	0	0	0	11079	30	545	67	65
14	8	2960	31996	10809	4400	2700	7100	2399	63	36829	101	6530	570	66
0	0	320	0	0	0	0	0	0	0	7598	21	151	37	67
10	0	3040	16963	5579	1650	0	1650	543	36	34964	96	1513	137	68
0	0	520	0	0	0	0	0	0	0	7645	21	1802	12	69
4	0	1080	182989	169434	6930	0	6930	6417	29	231699	635	3339	3591	70
26	0	1400	114941	82100	30130	0	30130	21521	174	322170	883	24563	5567	71
7	1	2080	35461	17048	2540	300	2840	1365	51	70077	192	2096	744	72
34	0	960	1573	1638	540	0	540	563	70	18611	51	354	186	73
7	0	320	543	1696	40	0	40	125	13	0	0	28	12	74
16	0	960	4106	4277	670	0	670	698	16	28834	79	548	122	75
0	0	320	0	0	0	0	0	0	0	2037	6	41	18	76
0	0	2240	0	0	0	0	0	0	0	69012	189	584	319	77
22	0	2880	36432	12650	7900	0	7900	2743	78	37464	103	7803	97	78
0	0	480	0	0	0	0	0	0	0	19509	53	249	73	79
29	0	800	3171	3963	910	0	910	1138	190	22688	62	791	11980	80
21	0	1280	5353	4182	1100	0	1100	859	86	16852	46	956	144	81
17	0	640	11090	17328	1830	0	1830	2859	159	70383	193	848	982	82
25	0	9600	68270	7111	17320	0	17320	1804	129	164055	449	16172	1148	83
0	0	160	0	0	0	0	0	0	0	11156	31	110	229	84
31	0	1120	4096	3657	1270	0	1270	1134	126	9009	25	1245	25	85
8	0	2240	10828	4833	910	0	910	406	14	20941	57	868	42	86
7	0	1280	21185	16550	1540	0	1540	1203	29	13089	36	1456	84	87
8	0	320	5648	17650	430	0	430	1344	38	7279	20	401	29	88
12	0	640	4469	6982	530	0	530	828	55	23994	66	356	174	89
15	9	1480	56060	37878	8660	4800	13460	9095	293	43487	119	13281	179	90
8	0	320	3068	9587	250	0	250	781	52	14607	40	211	39	91
11	0	320	2451	7659	280	0	280	875	73	6219	17	251	29	92
27	5	2800	33093	11818	9090	1760	10850	3875	155	74764	205	10272	578	93
0	0	320	0	0	0	0	0	0	0	15620	43	96	166	94
13	0	2400	114778	47824	15380	0	15380	6408	44	131825	361	13435	1945	95
5	3	6880	128100	18619	6190	3580	9770	1420	36	93577	256	9208	562	96
0	0	320	0	0	0	0	0	0	0	34224	94	251	245	97
0	0	960	0	0	0	0	0	0	0	15317	42	579	61	98
0	0	320	0	0	0	0	0	0	0	3629	10	70	18	99
0	0	640	0	0	0	0	0	0	0	11864	33	243	92	100
17	0	160	1570	9812	270	0	270	1688	188	32388	89	137	133	101
0	0	480	0	0	0	0	0	0	0	20269	56	299	88	102
8	0	320	4317	13490	340	0	340	1063	27	6638	18	303	37	103
7	0	960	17451	18178	1250	0	1250	1302	25	12861	35	1126	124	104
21	0	400	8257	20642	1710	0	1710	4275	126	10347	28	1629	81	105
12	0	960	25905	26984	3220	0	3220	3354	168	58389	160	2620	600	106
0	0	320	0	0	0	0	0	0	0	26247	72	151	103	107
7	0	80	559	6987	40	0	40	500	45	2634	7	20	20	108
3	6	1920	50353	26225	1310	2880	4190	2182	59	23012	63	4095	95	109
0	0	320	0	0	0	0	0	0	0	7833	21	176	49	110
24	0	800	6453	8066	1580	0	1580	1975	110	55745	153	1324	256	111
9	0	160	1370	8562	130	0	130	813	41	5043	14	83	47	112
23	0	1920	20927	10899	4830	0	4830	2516	132	126480	347	3567	1263	113
27	3	1520	21330	14032	5690	550	6240	4105	216	21186	58	6154	86	114
14	0	240	7367	30695	1030	0	1030	4292	86	2934	8	1023	7	115
40	0	680	2115	3110	840	0	840	1235	176	33915	93	458	382	116
0	0	80	0	0	0	0	0	0	0	5848	16	183	46	117
89	0	200	880	4400	780	0	780	3900	488	15447	42	740	40	118
0	0	1280	0	0	0	0	0	0	0	11216	31	492	45	119
0	0	520	0	0	0	0	0	0	0	33879	93	492	247	120
32	0	400	2151	5377	690	0	690	1725	246	8551	23	660	30	121
7	10	4960	86087	17356	5790	8850	14640	2952	80	247843	679	11513	3127	122
42	0	1600	16782	10488	7100	0	7100	4438	185	84081	230	6100	1000	123
19	0	1120	31754	28351	6080	0	6080	5429	136	133104	365	4693	1387	124
6	0	640	6356	9931	390	0	390	609	41	7747	21	346	44	125
0	0	640	0	0	0	0	0	0	0	7878	22	64	16	126
16	0	960	4723	4919	740	0	740	771	55	20433	56	664	76	127
0	0	480	0	0	0	0	0	0	0	13054	36	61	16	128
23	0	3200	19527	6102	4560	0	4560	1425	75	63239	173	3786	774	129
16	0	320	6101	19065	980	0	980	3063	128	23009	63	752	228	130

SUMMARY OF PRODUCTION

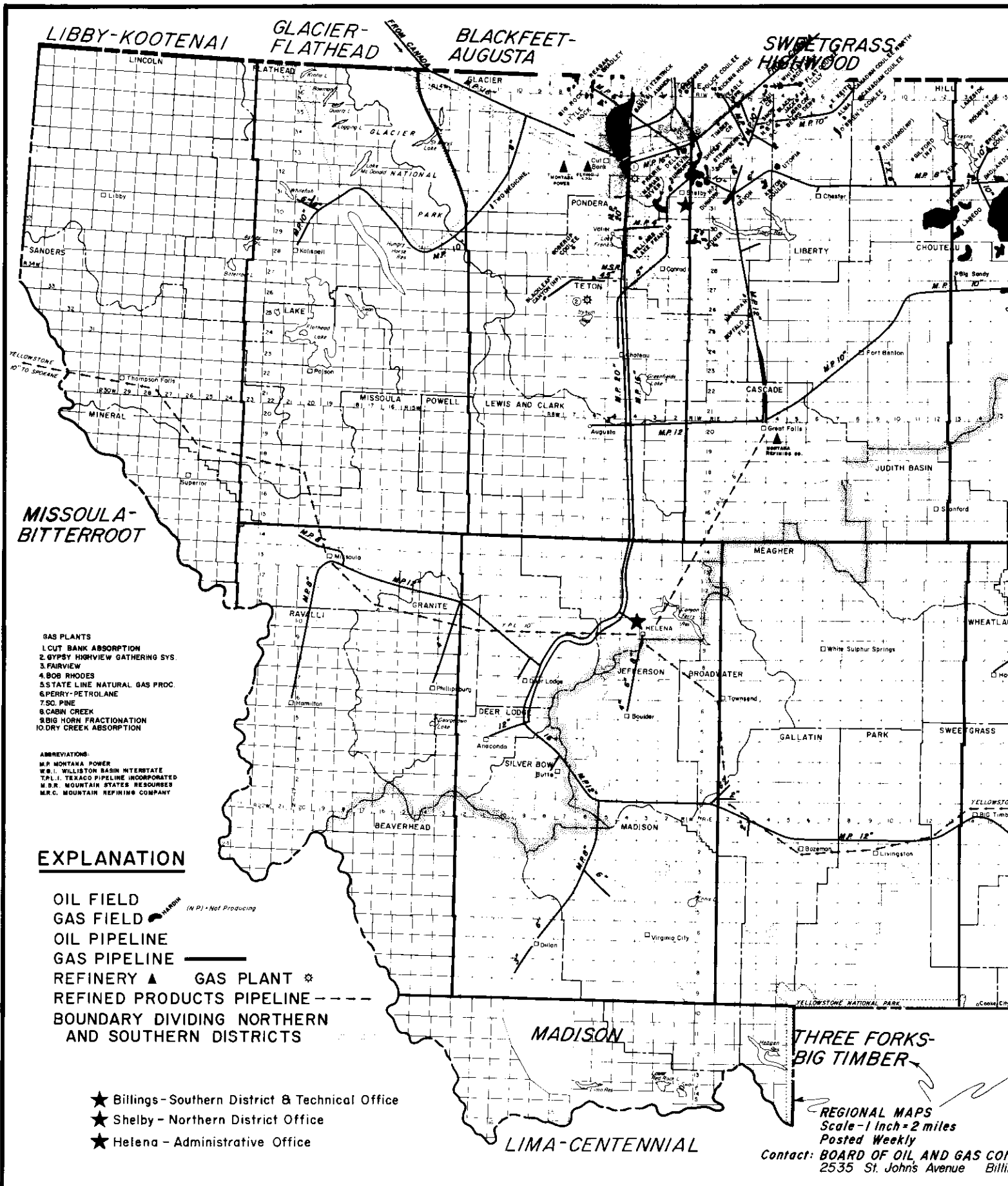
LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR	
											PRIM.	S
131	Lookout Butte	Total Production	Fallon	1961	8900	33.0	1.15	15	15	25	26	
132	Lowell	Red River	Sheridan	1979	11300	35.0	0.00	7	8	45	0	
133	Lustre	Madison	Valley	1982	7200	33.0	1.19	27	16	45	5	
134	Lustre, North	Ratcliffe	Valley	1983	6150	39.0	1.22	43	6	33	1	
135	Mason Lake	Amsden/Cat Creek	Musselshell	1964	4200	47.0	1.10	12	15	43	14	
136	McCabe	Ratcliffe	Roosevelt	1973	8700	37.0	1.50	20	13	40	9	
137	McCoy Creek	Red River	Sheridan	1985	10370	0.0	0.00	0	0	0	0	
138	Medicine Lake	Devonian	Sheridan	1980	10300	44.0	0.00	11	0	49	0	
139	Medicine Lake	Siluro/Ord.	Sheridan	1984	11319	43.5	1.55	38	9	35	10	
140	Melstone	Tyler	Musselshell	1948	4400	34.0	1.09	25	15	30	27	
141	Midfork	Charles/Nisku	Valley	1985	7174	0.0	0.00	0	0	0	0	
142	Midfork	Nisku	Valley	1990	7200	45.6	0.00	4	0	0	0	
143	Mona	Red River	Richland	1982	11300	60.0	2.30	18	14	33	8	
144	Monarch Non Unit	Siluro/Ord.	Fallon	1958	8400	0.0	0.00	0	0	0	0	
145	Monarch Unit	Siluro/Ord.	Fallon	1958	8400	32.0	1.00	31	7	35	3	
146	Mondak West	Duperow	Richland	1979	10600	41.4	1.50	8	10	25	32	
147	Mondak West	Madison	Richland	1976	9200	30.0	1.30	100	4	60	5	
148	Mondak West	Siluro/Ord.	Richland	1976	12200	48.0	1.64	45	10	43	19	
149	Mustang	Madison	Richland	1988	9200	33.7	0.00	0	0	0	0	
150	Mustang	Red River	Richland	1979	12500	47.0	1.41	17	12	0	8	
151	Neisser Creek	Red River	Sheridan	1982	10900	46.0	2.00	15	17	21	16	
152	Nohly	Nisku	Richland	1983	10700	38.0	1.30	15	11	39	75	
153	Nohly	Red River	Richland	1972	12900	46.0	1.43	27	10	40	23	
154	North Fork	Madison	Richland	1977	9500	35.0	1.37	18	3	70	47	
155	Ollie	Red River	Fallon	1980	10200	36.0	0.00	56	10	35	0	
156	Outlook, West	Winnipegosis	Sheridan	1958	9100	39.0	1.12	16	8	30	36	
157	Oxbow	Red River	Roosevelt	1978	12600	47.0	1.50	18	12	45	34	
158	Palomino	Nisku	Roosevelt	1980	7500	48.0	1.15	39	16	20	12	
159	Pennel	Siluro/Ord.	Fallon	1955	7000	31.0	1.10	38	3	30	55	
160	Pine	Red River	Fallon/Wibaux	1952	8400	34.0	1.17	32	12	30	24	
161	Pondera	Madison/Sun River	Pondera	1927	2100	34.0	1.20	15	16	31	17	
162	Poplar, East	Heath	Roosevelt	1969	4900	38.0	1.10	8	11	50	30	
163	Poplar, East	Madison	Roosevelt	1952	5500	40.0	1.10	25	11	30	19	
164	Poplar, Northwest	Madison	Roosevelt	1952	6300	40.0	1.10	16	10	45	13	
165	Pronghorn	Red River	Sheridan	1983	10580	40.0	1.30	17	13	54	5	
166	Putnam	Interlake	Richland	1969	11900	41.0	1.75	16	9	30	13	
167	Putnam	Madison	Richland	1978	9500	34.0	1.42	92	6	35	3	
168	Putnam	Red River	Richland	1969	11900	41.0	1.75	16	9	30	21	
169	Rabbit Hills	Sawtooth	Blaine	1972	4000	21.0	1.15	12	18	16	27	
170	Ragged Point	Tyler	Musselshell	1956	3600	32.0	1.11	13	14	32	25	
171	Rattler Butte	Tyler	Rosebud	1975	5300	35.0	1.10	25	12	60	54	
172	Rattlesnake Butte	Cat Creek/Amsden	Petroleum	1984	2732	27.7	1.10	26	21	70	17	
173	Raymond	Duperow	Sheridan	1979	8360	40.0	1.15	40	7	15	9	
174	Raymond	Nisku	Sheridan	1972	7900	50.0	1.40	22	9	0	14	
175	Raymond	Red River	Sheridan	1972	10000	39.0	1.42	33	12	10	6	
176	Raymond	Winnipegosis	Sheridan	1972	9300	42.0	1.17	40	5	27	19	
177	Reagan	Madison	Glacier	1947	3700	38.0	1.10	11	12	30	46	
178	Red Bank	Madison	Roosevelt	1980	13000	31.0	2.00	16	14	11	5	
179	Red Bank, South	Red River	Roosevelt	1981	13000	44.0	1.60	17	17	30	13	
180	Red Creek Unit	Cut Bank/Madison	Glacier	1958	2600	31.0	1.08	20	19	30	25	
181	Red Water	Bakken*	Richland	1991	9990	0.0	0.00	22	0	0	0	
182	Red Water, East	Red River	Richland	1983	12025	47.0	1.40	20	11	40	11	
183	Refuge	Red River	Sheridan	1979	11300	44.0	1.69	13	5	30	39	
184	Reserve II	Red River	Sheridan	1987	11283	42.1	1.36	12	12	28	6	
185	Ridgelawn	Duperow	Richland	1984	11314	46.6	1.60	27	10	20	13	
186	Ridgelawn	Madison	Richland	1977	8900	35.0	1.18	54	3	50	14	
187	Ridgelawn	Red River	Richland	1980	12500	49.0	1.90	15	12	35	37	
188	Ridgelawn, North	Mission Canyon	Richland	1991	12038	36.0	0.00	0	0	0	0	
189	RipRap Coulee	Ratcliffe	Roosevelt	1975	8800	34.0	1.30	14	14	45	22	
190	Riverbend	Red River	Richland	1981	12000	44.0	1.42	12	12	30	19	
191	Rocky Point	Red River	Roosevelt	1978	11800	49.0	1.80	19	14	47	16	
192	Rosebud	Tyler	Musselshell	1974	5000	34.0	1.24	32	14	48	24	
193	Royals	Dawson Bay	Dawson	1980	11700	43.0	1.93	46	5	32	17	
194	Rush Mountain	Winnipegosis*	Sheridan	1968	12000	39.0	1.62	14	10	33	47	
195	Salt Lake	Bakken/Nisku*	Sheridan	1970	7900	43.0	1.50	23	11	35	9	
196	Salt Lake	Ratcliffe	Sheridan	1992	6520	33.7	0.00	36	0	92	0	
197	Salt Lake	Red River	Sheridan	1987	10554	34.7	1.30	13	10	25	44	

PRODUCING OIL FIELDS —1994

R	RECOVERY FACTOR %		PRO-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1994 PRODUCTION		CUMUL. PROD. 1-95 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
	PRIM.	SECD.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
26	1		10880	123858	11384	31680	1300	32980	3031	202	680338	1864	27018	5962	131
0	0		960	0	0	0	0	0	0	0	8754	24	101	56	132
5	0		8000	123919	15489	5830	0	5830	729	27	180319	494	5151	679	133
1	0		960	10553	10992	140	0	140	146	3	5457	15	112	28	134
14	0		1040	7526	7236	1020	0	1020	981	82	6823	19	987	33	135
9	0		480	3873	8068	340	0	340	708	35	5063	14	255	85	136
0	0		160	0	0	0	0	0	0	0	3040	8	43	6	137
0	0		480	0	0	0	0	0	0	0	25153	69	196	199	138
10	0		1600	17802	11126	1730	0	1730	1081	28	60538	166	1450	280	139
27	0		800	14947	18683	4000	0	4000	5000	200	34158	94	3828	172	140
0	0		960	0	0	0	0	0	0	0	55224	151	321	163	141
0	0		160	0	0	0	0	0	0	0	12210	33	38	46	142
8	0		320	1822	5693	150	0	150	469	26	7211	20	132	18	143
0	0		2080	0	0	0	0	0	0	0	92285	253	883	555	144
3	3		2720	29764	10942	890	960	1850	680	22	28465	78	1597	253	145
32	0		320	993	3103	320	0	320	1000	125	19567	54	222	98	146
5	0		10880	103886	9548	5610	0	5610	516	5	91627	251	5235	375	147
19	0		3200	38828	12133	7460	0	7460	2331	52	195294	535	4759	2701	148
0	0		160	0	0	0	0	0	0	0	7417	20	53	28	149
8	0		960	10775	11223	890	0	890	927	55	32041	88	647	243	150
16	0		320	2501	7815	410	0	410	1281	85	14682	40	300	110	151
75	0		800	4805	6006	3580	0	3580	4475	298	134109	367	3036	544	152
23	0		960	8437	8788	1930	0	1930	2010	74	28567	78	1799	131	153
47	0		960	881	917	410	0	410	427	24	14026	38	378	32	154
0	0		160	0	0	0	0	0	0	0	4690	13	148	23	155
36	0		480	2979	6206	1080	0	1080	2250	141	32809	90	869	211	156
34	0		320	1966	6143	670	0	670	2094	116	16792	46	458	212	157
12	0		800	26941	33676	3110	0	3110	3888	100	136066	373	2228	882	158
55	16		28960	162989	5628	90450	25600	116050	4007	105	2375386	6508	88100	27950	159
24	18		16480	293731	17823	70840	54000	124840	7575	237	974217	2669	112095	12745	160
17	0		15600	167014	10706	27890	0	27890	1788	119	250356	686	26658	1232	161
30	0		480	1490	3104	440	0	440	917	115	9700	27	336	104	162
19	0		18070	245327	13576	47190	0	47190	2612	104	125372	343	45516	1674	163
13	0		5440	33763	6206	4370	0	4370	803	50	99634	273	3927	443	164
5	0		1280	7765	6066	360	0	360	281	17	10052	28	311	49	165
13	0		1280	5720	4468	740	0	740	578	36	36356	100	662	78	166
3	0		1600	31364	19602	880	0	880	550	6	39988	110	590	290	167
21	0		4160	18589	4468	3960	0	3960	952	60	12720	35	3934	26	168
27	0		800	9792	12240	2660	0	2660	3325	277	123754	339	1498	1162	169
25	10		1440	12456	8650	3130	1210	4340	3014	232	44459	122	4140	200	170
54	0		240	2031	8462	1100	0	1100	4583	183	25299	69	1030	70	171
17	0		360	4159	11552	720	0	720	2000	77	23982	66	564	156	172
9	0		160	2569	16056	240	0	240	1500	38	6232	17	129	111	173
14	0		640	7022	10971	1000	0	1000	1563	71	22937	63	878	122	174
6	0		960	18693	19471	1170	0	1170	1219	37	18347	50	1000	170	175
19	0		960	9294	9681	1730	0	1730	1802	45	28071	77	1556	174	176
46	14		2600	16943	6516	7790	2300	10090	3881	353	109619	300	9283	807	177
5	0		5120	39594	7733	2080	0	2080	406	25	54472	149	1593	487	178
13	0		320	3139	9809	400	0	400	1250	74	9859	27	361	39	179
25	1		1410	26942	19107	6790	300	7090	5028	251	146469	401	6481	609	180
0	0		160	0	0	0	0	0	0	0	3864	11	23	6	181
11	0		320	2341	7315	250	0	250	781	39	9127	25	178	72	182
39	0		320	668	2087	260	0	260	813	63	8071	22	226	34	183
6	0		640	3785	5914	210	0	210	328	27	10984	30	203	7	184
13	0		1600	16757	10473	2120	0	2120	1325	49	130266	357	613	1507	185
14	0		4480	23858	5325	3430	0	3430	766	14	66987	184	3260	170	186
37	0		1600	7644	4777	2840	0	2840	1775	118	56202	154	2635	205	187
0	0		320	0	0	0	0	0	0	0	29575	81	116	164	188
22	0		800	5147	6433	1130	0	1130	1413	101	32874	90	704	426	189
19	0		320	1762	5506	330	0	330	1031	86	10047	28	265	65	190
16	0		640	3889	6076	610	0	610	953	50	12705	35	525	85	191
24	0		200	2915	14575	700	0	700	3500	109	17106	47	513	187	192
17	0		320	2012	6287	350	0	350	1094	24	8283	23	329	21	193
47	0		320	1437	4490	670	0	670	2094	150	22353	61	632	38	194
9	0		640	5443	8504	510	0	510	797	35	5757	16	463	47	195
0	0		160	0	0	0	0	0	0	0	31234	86	104	289	196
44	0		480	2793	5818	1230	0	1230	2563	197	51982	142	460	770	197

PRODUCING OIL FIELDS —1994

RECOVERY FACTOR %		PRO-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1994 PRODUCTION		CUMUL. PROD. 1-95 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
14	0	1600	10427	6516	1470	0	1470	919	31	15893	44	1313	157	198
0	0	1720	3387	1969	10	0	10	6	2	1958	5	9	1	199
0	0	480	0	0	0	0	0	0	0	14585	40	362	37	200
6	0	7040	50415	7161	3050	0	3050	433	7	34095	93	2995	55	201
7	0	640	5301	8282	380	0	380	594	20	11622	32	340	40	202
0	0	320	0	0	0	0	0	0	0	13852	38	58	36	203
16	0	2560	27337	10678	4480	0	4480	1750	44	78249	214	3651	829	204
9	0	1920	21705	11304	1920	0	1920	1000	59	41377	113	1580	340	205
3	0	1920	29493	15360	740	0	740	385	9	38248	105	533	207	206
6	0	4480	68817	15360	4290	0	4290	958	22	91466	251	3775	515	207
9	0	640	3337	5214	310	0	310	484	35	9411	26	296	14	208
18	0	1240	17866	14408	3210	0	3210	2589	129	39523	108	2757	453	209
17	0	120	1335	11125	230	0	230	1917	128	6916	19	176	54	210
47	0	160	170	1062	80	0	80	500	83	6843	19	30	50	211
1	0	960	33589	34988	250	0	250	260	6	13542	37	224	26	212
14	0	480	2701	5627	380	0	380	792	47	19165	53	245	135	213
6	0	640	7277	11370	460	0	460	719	18	13193	36	330	130	214
40	17	960	17824	18566	7210	3080	10290	10719	429	17311	47	10220	70	215
27	7	5520	136779	24778	36930	9540	46470	8418	281	212386	582	45075	1395	216
8	0	1760	9467	5378	750	0	750	426	27	14031	38	710	40	217
46	0	1280	18487	14442	8470	0	8470	6617	265	33971	93	8264	206	218
42	0	320	4913	15353	2060	0	2060	6438	215	3685	10	2039	21	219
58	0	480	1787	3722	1030	0	1030	2146	268	10469	29	864	166	220
7	1	960	10569	11009	769	71	840	875	51	24037	66	720	120	221
0	0	960	0	0	0	0	0	0	0	31034	85	669	218	222
12	0	3520	20754	5896	2580	0	2580	733	18	100281	275	2111	469	223
9	0	2240	20071	8960	1820	0	1820	813	34	23350	64	1724	96	224
51	0	800	8689	10861	4410	0	4410	5513	394	68576	188	3430	980	225
45	0	960	2749	2863	1250	0	1250	1302	217	20157	55	1159	91	226
47	0	320	2056	6425	970	0	970	3031	253	10671	29	965	5	227
0	0	120	0	0	0	0	0	0	0	10694	29	311	75	228
57	0	160	742	4637	420	0	420	2625	219	4745	13	391	29	229
20	26	240	2559	10662	510	670	1180	4917	410	19827	54	940	240	230
63	0	2080	7664	3684	4830	0	4830	2322	211	15215	42	4790	40	231
18	0	960	5107	5319	920	0	920	958	64	20803	57	872	48	232
19	0	560	7603	13576	1420	0	1420	2536	101	14400	39	1252	168	233
28	0	640	2979	4654	840	0	840	1313	219	25543	70	631	209	234
6	0	320	2809	8778	160	0	160	500	28	4184	11	134	26	235
										1623059	4447		26	236
										16531M	45290		140032	237



MISSOULA-BITTERROOT

- GAS PLANTS**
- 1. CUT BANK ABSORPTION
 - 2. GYPSY HIGHVIEW GATHERING SYS.
 - 3. FAIRVIEW
 - 4. BOB RHODES
 - 5. STATE LINE NATURAL GAS PROC.
 - 6. PERRY-PETROLANE
 - 7. SC. PINE
 - 8. CABIN CREEK
 - 9. BIG HORN FRACTIONATION
 - 10. DRY CREEK ABSORPTION

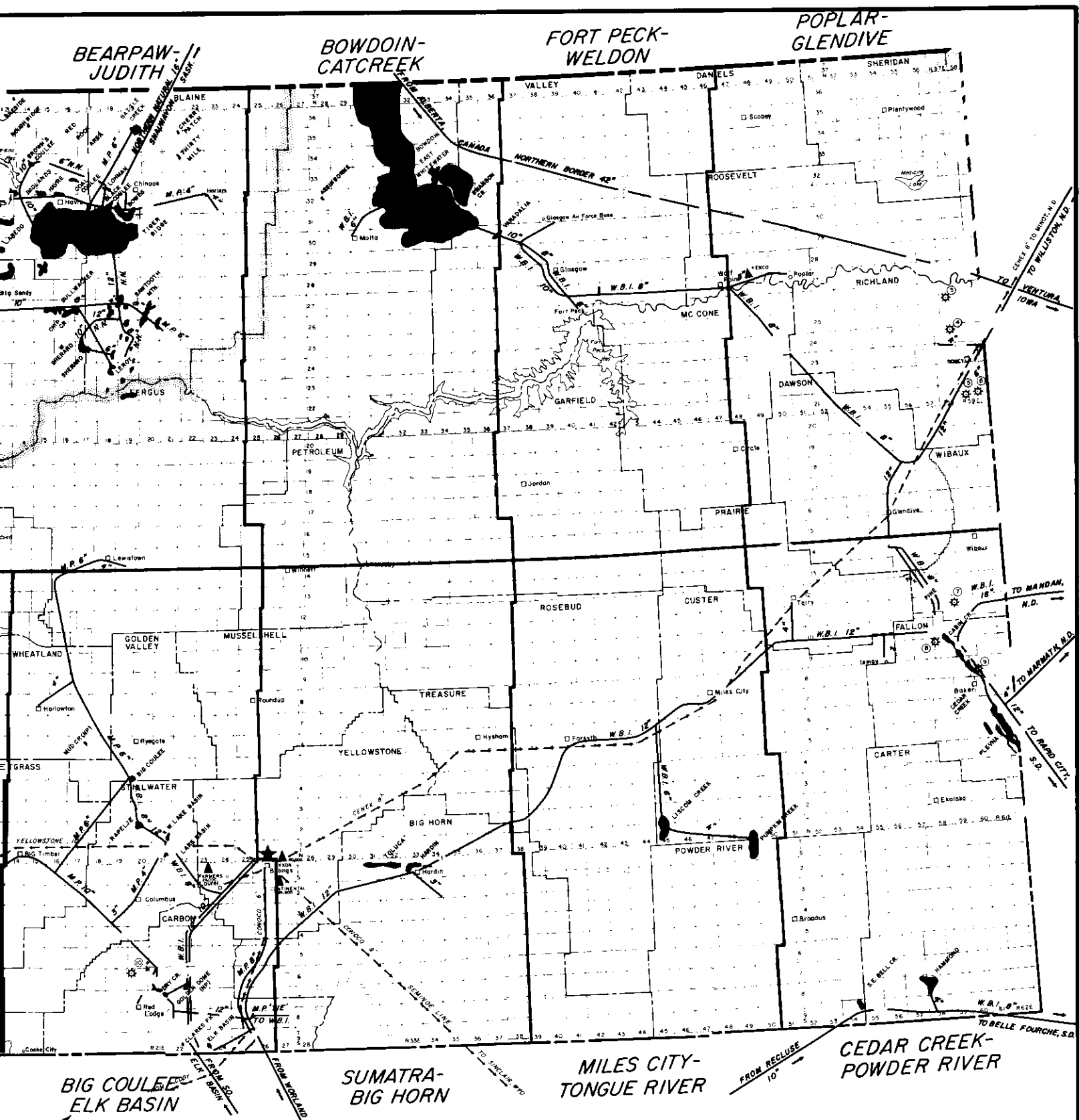
- ABBREVIATIONS:**
- M.P. MONTANA POWER
 - W.B.I. WILLISTON BASIN INTERSTATE
 - T.P.L. TEXACO PIPELINE INCORPORATED
 - M.S.R. MOUNTAIN STATES RESOURCES
 - M.R.C. MOUNTAIN REFINING COMPANY

EXPLANATION

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

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

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



MONTANA
OIL AND GAS FIELDS, PIPELINES AND REFINERIES
 1987

GAS CONSERVATION
 Billings, Mont. 59102 (406) 656-0040

BOARD OF OIL AND GAS CONSERVATION

ERA	PERIOD	SOUTHWEST MONTANA (GENERALIZED)	CRAZY MOUNTAINS BASIN	CENTRAL MONTANA		BIG HORN BASIN	
CENOZOIC	TERTIARY	DUALVAN GP SIXMILE CREEK FM RENOVA FM SPHINX CGL	TONGUE RIVER MBR T. FRO MBR T. J. LOCK MBR			TONGUE RIVER MBR LEBOW MBR T. J. LOCK MBR	
		ELK BASIN VOLCANICS BLANKENHARD CGL MONTANA CP UNDIVIDED EAGLE FM T. F. GRAPH CK CODY SH FRONTIER FM COLORADO CP UNDIVIDED MOWRY SH MUDDY SS THERMOPOLIS SH (RUSTY RED MBR) KOOTENAI FM	FRONT UNION FM L. VINCIGRASS CP HELL CREEK FM LEFNFP FM BEARPAW FM JUDITH RIVER FM CLAGGETT FM EAGLE FM (VIRGELLE MBR) T. F. GRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENHORN FM BELLE FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM	MONTANA GP HELL CREEK FM FOX HILLS FM BEARPAW FM JUDITH RIVER FM CLAGGETT FM EAGLE FM (VIRGELLE SS) T. F. GRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENHORN FM BELLE FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA (1ST CAT CRFCK) KOOTENAI FM (2ND CAT CRELKY) (3RD CAT CRFCK)	MESA VERDE GP MUD CK CAT CK MASON I RATTLERSNAKE BUTTE CAT CK IVANHOE HATTLESNAKE BUTTE CAT CK MASON L BIG C	MESA VERDE GP CO. CHALCO BP CODYVIEW GP CAT CK VANHOUT BIG C CAT CK SUMATRA, WOLF SPRINGS	TONGUE RIVER MBR LEBOW MBR T. J. LOCK MBR LANGE FM LEFNFP FM MEETETSIF FM JUDITH RIVER FM PARKMAN SS CLAGGETT FM EAGLE FM (VIRGELLE SS) T. F. GRAPH CK FM CODY FM TORCHLIGHT SS FRONTIER FM PEAY SS MOWRY FM MUDDY SST SKULL CK SH DAKOTA SILT DAKOTA I M GREYBULL SS KOOTENAI FM LAKOTA I M
MESOZOIC	CRETACEOUS						
	JURASSIC	MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM	CAT CK VANHOUT BIG C CAT CK SUMATRA, WOLF SPRINGS	MORRISON FM SUNDANCE FM UPPER MBR LOWER MBR GYPSUM SPRINGS FM	
	TRIASSIC	THAYNES FM WOODSIEB FM DINWOODY FM	CHUGWATER FM DINWOODY FM			CHUGWATER FM DINWOODY FM	
PALEOZOIC	PERMIAN	SHERIDAN FM PHOSPHORIA FM PARK CITY MBR	PHOSPHORIA FM			PHOSPHORIA FM	ELK BASIN
	PENNSYLVANIAN	QUADRANT FM AMSDEN GP	QUADRANT FM AMSDEN GP	TENSLEEP FM AMSDEN GP (ALASKA BLEND) TYLER FM	MUD CK HIGHWALL, CAL CK, DILLON, GAGE, HAWK CK, HIBBARD, IVANHOE, MASON I AKI, HOIT CK, SUMATRA, WEED CK ACE HIGH, BASCOM, BIG GULLY, BIG & LITTLE WALL, RHLEL CK, DEVILS BASIN, GREBE, GUMBO RIDGE, HEATH, JUVILS BASIN & POCKET, HIWATHA, HIGH FIVE, HOWARD C., MOUN CK, IVANHOE, JIM C., KFG C, SUMATRA RAGGED POINT	TENSLEEP FM AMSDEN FM DARWIN SS	ELK BASIN, NW ELK BASIN, FRANNIE ELK BASIN
	MISSISSIPPIAN	BIG SNOWY GP MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM	BIG SNOWY GP CHARISS FM MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM BIRDBEAR FM?	BIG SNOWY GP CHARLES FM MISSION CANYON LS LODGEPOLE LS BAKKIN FM	HIWATHA, HIGH FIVE, HOWARD C., MOUN CK, IVANHOE, JIM C., KFG C, KFLY, KINGHORN, MER. STONE, MUSSELSHILL, RAGGED PT, RATTLERSNAKE, ROSEBUD, STENSVAD, STURMORASH, SUMATRA, TINDY HOOK, TIPPY BUTTE S, WAGON HOOK, WINDY TT JC	MASON GROUP	ELK BASIN, NW ELK BASIN, FRANNIE
	DEVONIAN	JEFFERSON FM MAYWOOD FM	JEFFERSON FM MAYWOOD FM	JEFFERSON FM MAYWOOD FM		JEFFERSON FM	ELK BASIN
	SILURIAN						
	ORDOVICIAN	BIG HORN FM	BIG HORN FM	RED RIVER FM WINDY TT FM		LEIGHTON BUTTE FM	ELK BASIN
	CAMBRIAN	RED LION FM PILGRIM FM PARK SH MEAGHER LS WOLSEY SH FLATHEAD SS	GROVE CK FM? SNOWY RANGE FM PILGRIM FM PARK SH MEAGHER LS WOLSEY SH FLATHEAD SS	SNOWY RANGE FM PILGRIM FM PARK SH MEAGHER LS WOLSEY SH FLATHEAD SS		GROVE CK FM GAITHERN LS SNOWY RANGE PILGRIM FM GROS VENTRE GP FLATHEAD SS	
	PRECAMBRIAN	PROTEROZOIC	BELT SUPERGROUP	BELT SUPERGROUP	BELT SUPERGROUP		
ARCHEAN		PRE BELT METAMORPHIC AND IGNEOUS ROCKS	PRE BELT METAMORPHIC AND IGNEOUS ROCKS	PRE BELT METAMORPHIC AND IGNEOUS ROCKS		PRE BELT ROCKS	
		SOUTHWEST MONTANA (GENERALIZED)	CRAZY MOUNTAINS BASIN	CENTRAL MONTANA		BIG HORN BASIN	

STRATIGRAPHIC CORRELATION CHART

MINERAL PRODUCING FORMATIONS* • OIL • GAS

WILLISTON BASIN	NORTH CENTRAL MONTANA	SWEETGRASS ARCH
<p>FLAXVILLE FM</p> <p>FORB UNION FM</p> <p>TONGUE RIVER MBR</p> <p>LLHO MBR</p> <p>HAULOCK MBR</p> <p>HELL CREEK FM</p> <p>FOX HILLS FM</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>CLAGGET FM</p> <p>EAGLE FM</p> <p>TRILITHOGRAPHIC FM (1ST WHITE SPK)</p> <p>NORRARA FM</p> <p>CARLILE FM</p> <p>GREENHORN FM</p> <p>BELLE FOURCHÉ FM</p> <p>MOWRY FM</p> <p>MUDDY SS</p> <p>SKULL CK SH</p> <p>DAKOTA SH T</p> <p>DAKOTA FM</p> <p>KOOTENAI FM (FUSON)</p> <p>LAKOTA FM</p>	<p>FLAXVILLE FM</p> <p>HELL CREEK FM</p> <p>FOX HILLS FM</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>CLAGGET FM</p> <p>EAGLE FM</p> <p>TRILITHOGRAPHIC FM (1ST WHITE SPK)</p> <p>NORRARA FM</p> <p>CARLILE FM (BROWN SS)</p> <p>GREENHORN FM (PINE LIPS SS)</p> <p>BELLE FOURCHÉ FM (PINE SCALE SS)</p> <p>MOWRY FM</p> <p>MUDDY SS</p> <p>SKULL CK SH</p> <p>DAKOTA SH T</p> <p>DAKOTA FM</p> <p>KOOTENAI FM</p>	<p>WILLOW CK FM</p> <p>ST. MARY RIVER FM</p> <p>HORSESHOE SS</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>TWO MEDICINE FM</p> <p>CLAGGET FM</p> <p>EAGLE SS</p> <p>TRILITHOGRAPHIC FM</p> <p>KEVIN SH MBR</p> <p>LUDIG MBR</p> <p>2ND WHITE SPK (GREENHORN)</p> <p>FLOW HT MBR</p> <p>IRISH SCALE SS</p> <p>BOO'LEGGH MBR</p> <p>RED SPK</p> <p>VALGHN</p> <p>BOW ISLAND</p> <p>TAI'HEL</p> <p>FLOOD (DAKOTA)</p> <p>KOOTENAI FM</p> <p>(MOULON) (SUNBURST) (ANDER) (CUT BANK)</p>
<p>MORRISON FM</p> <p>SWIFT FM</p> <p>HIFERON FM</p> <p>PIPLH</p> <p>ROWES MBR</p> <p>HEATH MBR</p> <p>TAMPOCO MBR</p> <p>NESSON FM</p> <p>HEATH MBR</p> <p>HEATH MBR</p> <p>SPEARHEAD FM</p> <p>PINE SALT</p> <p>MANNEKHAIA FM</p> <p>OPACHE FM</p> <p>MINNELUSA FM</p> <p>TYLER FM</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPLH</p> <p>ROWES MBR</p> <p>HEATH MBR</p> <p>TAMPOCO MBR</p> <p>HEATH MBR</p> <p>SPEARHEAD FM</p> <p>PINE SALT</p> <p>MANNEKHAIA FM</p> <p>OPACHE FM</p> <p>MINNELUSA FM</p> <p>TYLER FM</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>HIFERON FM</p> <p>SAWTOOTH FM</p> <p>BOO'LEGGH MBR</p> <p>RED SPK</p> <p>VALGHN</p> <p>BOW ISLAND</p> <p>TAI'HEL</p> <p>FLOOD (DAKOTA)</p> <p>KOOTENAI FM</p> <p>(MOULON) (SUNBURST) (ANDER) (CUT BANK)</p>
<p>HEATH FM</p> <p>OTIFR FM</p> <p>KIBBY FM</p> <p>CHAMBERS FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>HAKKEN FM</p> <p>THREE FORKS FM</p> <p>BIRDBLAIN (NISKU) FM</p> <p>UPPER FROW FM</p> <p>SOURIS RIVER FM</p> <p>DAWSON BAY FM</p> <p>RAIRIE (VAPOHIT)</p> <p>WINNIEGOSIS FM</p> <p>ASHLBY</p>	<p>HEATH FM</p> <p>OTIFR FM</p> <p>KIBBY FM</p> <p>CHAMBERS FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>HAKKEN FM</p> <p>THREE FORKS FM</p> <p>BIRDBLAIN (NISKU) FM</p> <p>UPPER FROW FM</p> <p>SOURIS RIVER FM</p> <p>RAIRIE (VAPOHIT)</p> <p>WINNIEGOSIS FM</p> <p>ASHLBY</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>HIFERON FM</p> <p>SAWTOOTH FM</p> <p>BOO'LEGGH MBR</p> <p>RED SPK</p> <p>VALGHN</p> <p>BOW ISLAND</p> <p>TAI'HEL</p> <p>FLOOD (DAKOTA)</p> <p>KOOTENAI FM</p> <p>(MOULON) (SUNBURST) (ANDER) (CUT BANK)</p>
<p>INTERLAKI FM</p> <p>STONEWALL</p> <p>STONY MTH</p> <p>CLINTON MBR</p> <p>ROUGH ON MBR</p> <p>RED HAVI R FM</p> <p>WINNIEGOSIS FM</p> <p>SI ALWOOD FM</p> <p>PRF-BELT ROCKS</p>	<p>INTERLAKI FM</p> <p>STONEWALL</p> <p>STONY MTH</p> <p>CLINTON MBR</p> <p>ROUGH ON MBR</p> <p>RED HAVI R FM</p> <p>WINNIEGOSIS FM</p> <p>SI ALWOOD FM</p> <p>PRF-BELT ROCKS</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>HIFERON FM</p> <p>SAWTOOTH FM</p> <p>BOO'LEGGH MBR</p> <p>RED SPK</p> <p>VALGHN</p> <p>BOW ISLAND</p> <p>TAI'HEL</p> <p>FLOOD (DAKOTA)</p> <p>KOOTENAI FM</p> <p>(MOULON) (SUNBURST) (ANDER) (CUT BANK)</p>
<p>WILLISTON BASIN</p>	<p>NORTH CENTRAL MONTANA</p>	<p>SWEETGRASS ARCH</p>

