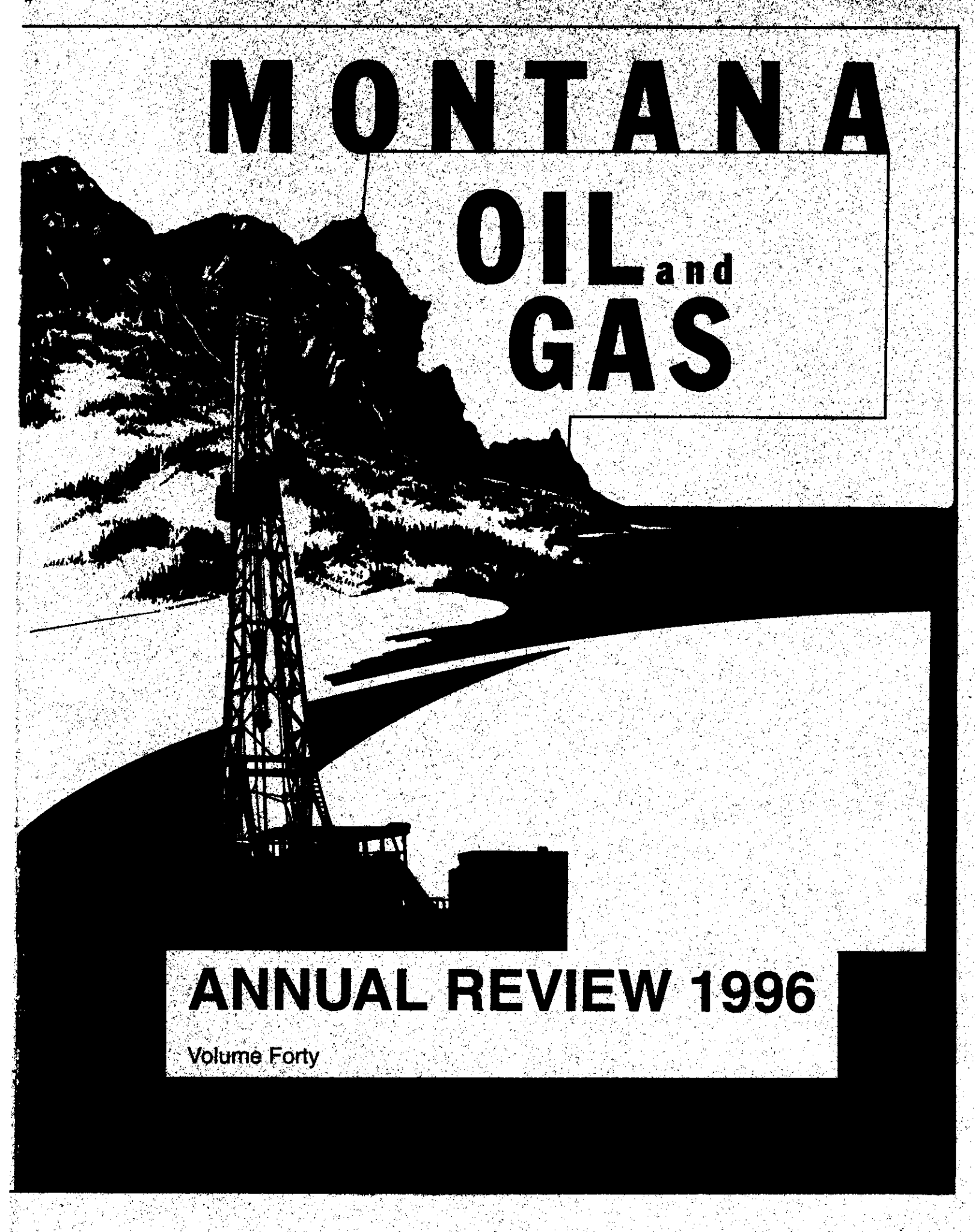


MONTANA



OIL and GAS

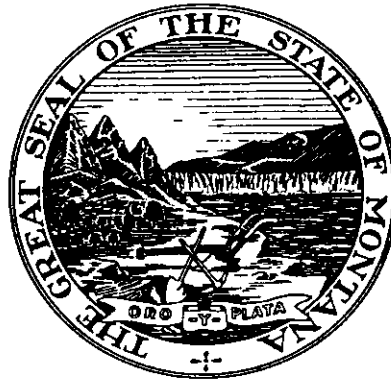
ANNUAL REVIEW 1996

Volume Forty

DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Marc Racicot, Governor



ANNUAL REVIEW FOR THE YEAR 1996

Relating to
OIL AND GAS
Volume 40

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November, 1997

ACKNOWLEDGMENTS

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Annual Review for the Year 1996 Volume 40

ACTIVITY REVIEW

Montana's oil production was 16.2 million barrels in 1996, compared to 16.5 million barrels the previous year. Gas production increased slightly from 50.7 million MCF in 1995 to 51.6 million MCF in 1996. Well-drilling activities were almost unchanged from the previous year, with 141 development and 68 exploratory wells being drilled in 1996. During the year, 64 new gas wells and 81 new oil wells were completed.

Five geophysical contractors were active during the year, and 30 seismic projects were completed. The Williston Basin received most of the seismic activity. A significant number of the permitted projects involved 3-D techniques.

Horizontal wells permitted in 1996 included 28 new horizontal wells and seven horizontal re-completions or redrilling of existing vertical wells. The Board of Oil and Gas Conservation approved the expansion of one existing secondary recovery project, thereby qualifying the incremental increase in production for a lower tax rate.

The board's staff issued 260 permits to drill during the year, performing an environmental assessment for each application involving private or state-owned land prior to permit issuance. The board issued 82 orders during the year. Most of these orders authorized increased well density to accommodate in-fill drilling programs, established permanent spacing for horizontal wells and exception wells, delineated new fields, and allowed exceptions to existing field rules.

On November 19, 1996, the board was delegated primary enforcement authority by the U.S. Environmental Protection Agency (EPA) for Class II wells under the Underground Injection Control (UIC) program. The delegation applies to all injection wells in the state, except those inside the external boundaries of Indian reservations. About 1,000 active and shut-in injection wells in Montana are under the board's jurisdiction. The program is being paid for by an annual injection well fee and by an EPA grant.

1996

SUMMARY OF YEAR ACTIVITIES

OIL

	BBLS	BBLS/DAY
Oil Produced	16,151,607	44,130
Oil Imported From:		
Canada	42,549,014	
Wyoming	<u>9,686,372</u>	
Total	52,235,386	142,720
Oil Exported	12,300,000	33,600

GAS

	MCF	MCF/DAY
Gas Withdrawals:		
Natural	45,043,184	
Associated	<u>6,538,349</u>	
Total	51,581,533	140,933
Gas Imported From:		
Canada	15,209,219	
North Dakota	10,289,291	
Wyoming	<u>17,159,112</u>	
Total	42,657,622	116,551
Gas Exported To:		
North Dakota	31,875,506	
South Dakota	266,043	
Wyoming	-0-	
Midwest	<u>15,169,898</u>	
Total	47,311,447	129,266

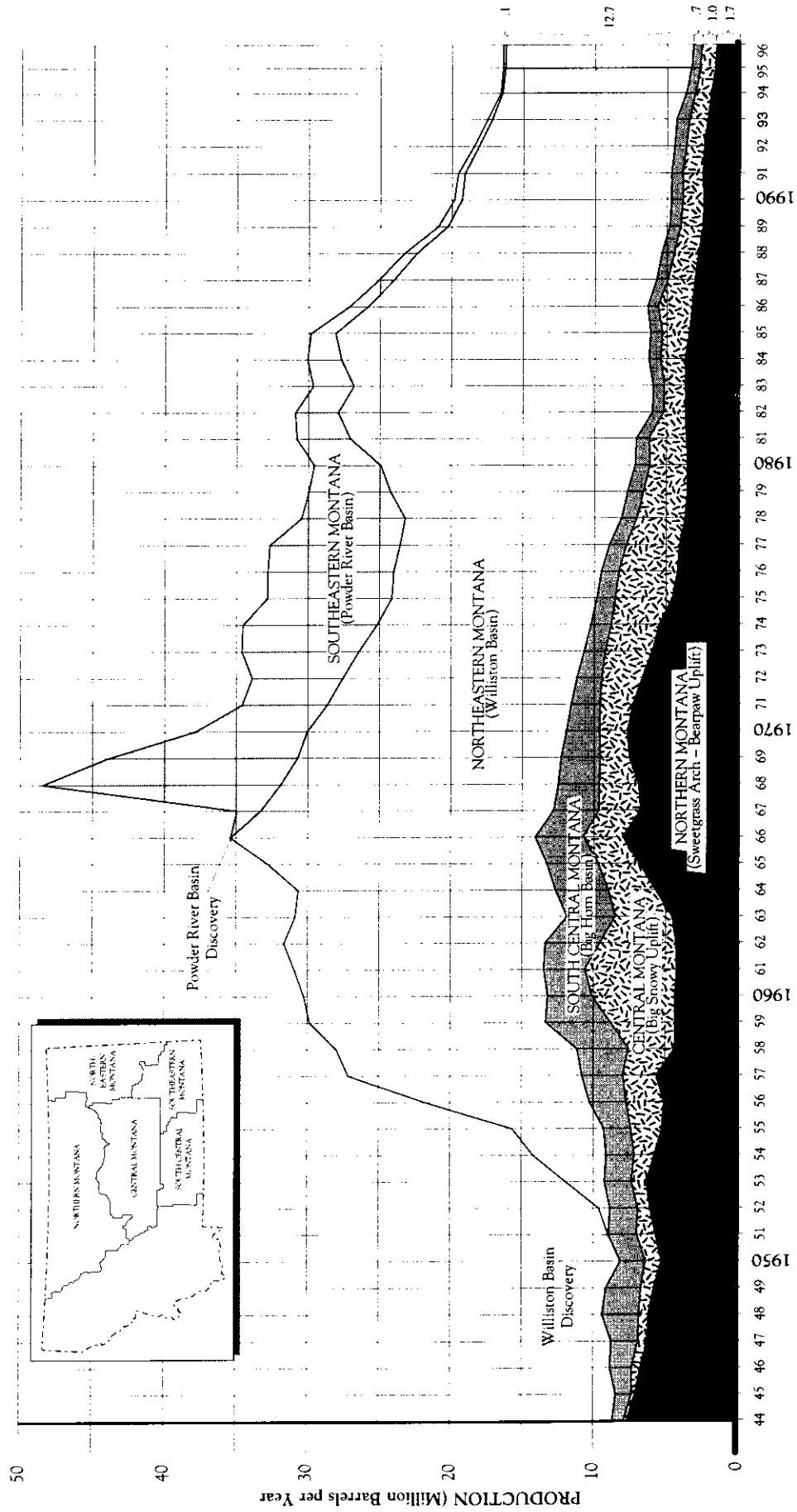
FIVE YEAR SUMMARY

	1992	1993	1994	1995	1996
OIL PRODUCTION IN BARRELS					
Northern Montana	2,426,783	2,143,943	2,003,272	1,783,331	1,735,895
South Central	832,580	772,668	733,965	698,537	653,723
Central	1,227,475	1,095,551	955,703	1,040,127	950,865
Williston Basin	13,637,695	13,110,882	12,747,075	12,877,305	12,695,462
Powder River Basin	355,139	272,517	90,965	126,524	115,662
TOTAL	18,479,672	17,395,561	16,530,980	16,525,824	16,151,607
NUMBER OF PRODUCING OIL WELLS					
Northern Montana	2,568	2,408	2,324	2,093	2,029
South Central	138	122	136	132	130
Central	287	298	272	249	239
Williston Basin	1,338	1,287	1,311	1,310	1,294
Powder River Basin	69	56	71	28	46
TOTAL	4,400	4,171	4,114	3,812	3,738
AVERAGE DAILY PRODUCTION/OIL WELL					
Northern Montana	2.6	2.4	2.4	2.3	2.3
South Central	16.5	17.4	14.8	14.5	13.7
Central	11.7	10.1	9.6	11.4	10.9
Williston Basin	27.8	27.9	26.6	26.9	26.8
Powder River Basin	14.1	13.3	3.5	12.4	6.9
STATE AVERAGE	11.5	11.4	11.0	11.9	11.8
DEVELOPMENT WELLS DRILLED					
Oil Wells	36	39	34	53	68
Gas Wells	136	80	78	65	54
Dry Holes	31	18	29	14	15
Service Wells	4	1	5	10	4
TOTAL	207	138	146	142	141
EXPLORATORY WELLS DRILLED					
Oil Wells	1	9	23	7	13
Gas Wells	8	3	12	15	10
Dry Holes	41	29	45	44	40
Temporary Abandoned	2	3	6	3	5
TOTAL	52	44	86	69	68
TOTAL WELLS DRILLED	259	182	232	211	209
TOTAL FOOTAGE DRILLED	788,721	677,698	906,564	1,068,715	1,072,556
AVERAGE FOOTAGE DRILLED	3,045	3,723	3,908	5,065	5,131

COUNTY ACTIVITY SUMMARY - 1996

COUNTY	DEVELOPMENT			EXPLORATORY			SERVICE WELLS	TEMP. ABAND.	TOTAL WELLS	TOTAL FEET	AVERAGE FEET
	OIL	GAS	DRY	OIL	GAS	DRY					
Beaverhead	0	0	0	0	0	1	0	0	1	8,621	18,621
Big Horn	0	0	0	0	0	0	0	1	1	1,447	1,447
Blaine	1	1	0	0	7	0	0	0	9	24,785	2,753
Carter	0	0	0	0	0	1	0	0	1	1,190	1,190
Daniels	0	0	0	0	0	1	0	1	2	13,597	6,798
Dawson	1	0	0	1	0	0	0	0	2	22,814	11,407
Fallon	21	20	0	0	1	1	0	0	43	313,186	7,283
Glacier	10	1	2	1	0	0	2	0	16	48,086	3,005
Hill	0	5	3	0	2	0	0	0	10	19,418	1,941
Liberty	0	2	1	0	0	1	0	0	4	8,792	2,198
Musselshell	1	0	1	0	0	6	0	0	8	26,614	3,326
Phillips	0	15	0	0	0	0	0	0	15	21,683	1,445
Richland	3	0	0	5	0	5	0	0	13	152,421	1,724
Roosevelt	4	0	0	3	0	7	0	3	17	109,721	6,454
Rosebud	0	0	0	0	0	2	0	0	2	11,219	5,609
Sheridan	8	0	1	2	0	4	0	0	15	159,238	10,615
Sweet Grass	0	0	0	0	0	1	0	0	1	12,089	12,089
Toole	19	10	7	0	0	5	2	0	43	66,134	1,538
Valley	0	0	0	0	0	2	0	0	2	12,755	6,377
Wibaux	0	0	0	1	0	2	0	0	3	31,345	10,448
Yellowstone	0	0	0	0	0	1	0	0	1	7,401	7,401
TOTALS	68	54	15	13	10	40	4	5	209	1,072,556	5,131

Crude Oil Production in Montana 1944-1996



GAS PRODUCTION DATA - 1996

NATURAL GAS

Field	County	Reported Formation	Produced MCF
Amanda	Toole	Bow Island, Dakota, Sunburst, Swift	242,581
Antelope Coulee	Toole	Blackleaf, Bow Island	5,249
Arch Apex	Toole	Bow Island, Sunburst, Swift	231,428
Ashfield	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	756,763
Badlands	Hill	Eagle	159,637
Battle Creek	Blaine	Eagle, Niobrara	1,580,171
Bears Den	Liberty	Bow Island, Swift	11,750
Bell Creek, Southeast	Powder River	Muddy	241,973
Big Coulee	Golden Valley, Stillwater	Cat Creek, Morrison	171,831
Big Rock	Glacier	Blackleaf, Bow Island, Colorado	274,432
Black Butte	Hill	Eagle	74,213
Black Coulee	Blaine	Eagle	182,119
Blackfoot	Glacier	Dakota, Sunburst	71,550
Blackjack	Liberty	Blackleaf, Bow Island, Second White Specks, Sunburst	79,684
Border	Toole	Moulton, Sunburst	1,690
Bowdoin and Area	Phillips, Valley	Bowdoin (Carlile), Greenhorn, Phillips	4,914,684
Bowes	Blaine	Eagle	493,351
Bradley	Glacier	Bow Island, Sunburst	3,770
Bullwacker	Blaine, Chouteau	Eagle, Judith River, Virgelle	735,429
Camp Creek	Chouteau	Eagle	17,870
Cedar Creek	Fallon	Eagle, Judith River	2,028,776
Clark's Fork	Carbon	Greybull	27,746
Coal Mine Coulee	Chouteau	Eagle, Second White Specks	19,610
Cut Bank	Glacier, Toole	Bow Island, Cut Bank, Dakota, Kootenai, Lander, Madison, Moulton, Sunburst	2,405,593
Devon	Toole	Bow Island	81,951
Devon, East	Toole	Bow Island	12,633
Devon, South	Toole	Bow Island	20,091
Dry Creek	Carbon	Eagle, Frontier, Greybull, Judith River, Virgelle	415,758
Dry Creek (Shallow Gas)	Carbon	Virgelle	7,059
Dry Creek, Middle	Carbon	Frontier	19,559
Dry Creek, West	Carbon	Greybull	33,238
Dry Fork	Pondera	Bow Island	15,280
Dunkirk	Toole	Dakota	100,574
Dunkirk, North	Toole	Bow Island, Sunburst, Swift	191,447
Dutch John Coulee	Toole	Sunburst	79,819
Eagle Springs	Toole	Bow Island, Sunburst, Swift	8,345
Ethridge	Toole	Swift	105,201
Ethridge, North	Toole	Bow Island, Swift	44,427
Fitzpatrick Lake	Toole	Bow Island, Swift	73,987
Flat Coulee	Liberty	Bow Island, Dakota, Swift	29,217
Fort Conrad	Toole, Pondera	Bow Island	22,975
Fred and George Creek	Toole	Bow Island, Sunburst, Swift	27,606
Fresno and Area	Hill	Eagle	24,293
Galata	Toole	Bow Island	116,447
Golden Dome	Carbon	Greybull, Eagle, Frontier	64,221
Grandview	Liberty	Bow Island, Sawtooth	42,141
Hardpan	Pondera, Chouteau	Bow Island	68,751
Hardpan Area	Pondera	Bow Island	6,278
Havre	Hill, Blaine	Eagle	19,394
Haystack Butte	Liberty	Bow Island	30,274
Haystack Butte, West	Liberty	Bow Island	50,040
Keith, East and Area	Liberty	Bow Island, Niobrara, Sawtooth, Second White Specks	580,817
Kevin Area	Toole	Swift	1,663
Kevin Southwest	Toole	Bow Island, Dakota, Sunburst, Swift	186,223
Kevin Sunburst	Toole	Bow Island, Burwash, Dakota, Eagle, Ellis, Nisku, Kootenai, Madison, Sunburst, Swift	513,030

GAS PRODUCTION DATA - 1996

NATURAL GAS (continued)

Field	County	Reported Formation	Produced MCF
Kevin Sunburst (Dakota)	Toole	Dakota	13,906
Kevin Sunburst-Bow Island	Toole	Bow Island	29,276
Kevin Sunburst Nisku & Area	Toole	Swift	56,048
Kevin, East Bow Island	Toole	Bow Island, Sunburst	12,958
Kevin, East Gas	Toole	Bow Island, Sunburst, Swift	54,486
Kevin, East Nisku Oil	Toole	Nisku, Sunburst	18,806
Kicking Horse	Toole	Bow Island, Sawtooth, Sunburst	120,164
Kippen Area, East	Toole	Madison, Swift	4
Lake Basin	Stillwater	Claggett, Eagle, Frontier, Virgelle, Telegraph Creek	64,578
Ledger	Pondera	Bow Island	159,504
Leroy	Blaine	Eagle	121,292
Liscom Creek	Custer	Shannon	65,641
Little Creek	Chouteau	Eagle, Virgelle	17,164
Little Rock	Glacier	Blackleaf, Bow Island	117,236
Lohman	Blaine	Eagle	50,472
Loring	Phillips	Carlile, Greenhorn, Phillips	1,651,499
Loring, East	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	614,784
Loring, West	Phillips	Carlile, Greenhorn, Phillips	26,261
Marias River	Toole, Pondera	Bow Island	50,714
Middle Butte	Toole, Liberty	Blackleaf, Bow Island, Second White Specks	52,217
Miners Coulee	Toole	Blackleaf, Bow Island, Sawtooth, Sunburst, Swift	58,140
Mount Lily	Liberty	Bow Island, Swift	7,399
O'Briens Coulee	Liberty	Bow Island, Blackleaf, Second White Specks, Spike	205,855
Old Shelby	Toole	Bow Island, Sunburst, Swift	1,187,884
Park City	Stillwater	Virgelle	9,568
Phantom	Toole	Sunburst	12,940
Phantom, West	Toole	Sunburst	32,188
Police Coulee	Toole	Bow Island	36,281
Prairie Dell	Toole	Bow Island, Dakota, Sunburst, Swift	625,372
Prairie Dell, West	Toole	Blackleaf, Swift	20,772
Rattlesnake Coulee	Toole	Sunburst	400
Red Rock	Hill	Eagle	202,384
Rocky Boy Area	Hill	Eagle	66,580
Rudyard	Hill	Eagle, Sawtooth	56,897
Sage Creek	Liberty	Blackleaf, Bow Island, Second White Specks	80,810
Sawtooth Mountain & Area	Blaine	Eagle, Judith River	527,054
Shelby Area	Toole	Burwash, Sunburst	13,440
Shelby, East	Toole	Bow Island, Burwash, Sunburst, Swift	48,431
Sherard and Area	Blaine, Chouteau	Eagle, Judith River	1,356,135
Sixshooter Dome	Sweet Grass	Eagle, Lakota	204,803
Snoose Coulee	Liberty	Bow Island	21,977
Snow Coulee	Liberty	Sunburst	6,933
Spring Coulee	Hill	Green Horn, Sawtooth, Second White Specks	12,402
Strawberry Creek Area	Toole	Bow Island, Burwash, Sunburst	46,193
Swanson Creek	Phillips, Valley	Carlile, Greenhorn, Phillips	386,139
Sweetgrass and Area	Toole	Sunburst	1,732
Three Mile	Blaine	Eagle	46,044
Tiber, East	Toole	Bow Island	120,706
Tiger Ridge and Area	Toole	Eagle, Judith River	14,386,781
Timber Creek, West	Toole	Sunburst	6,970
Trail Creek	Liberty, Toole	Bow Island, Sunburst, Swift	94,698
Utopia	Liberty	Sawtooth, Bow Island	99,313
Vandalia	Valley	Carlile	28,156
West Butte	Toole	Bow Island	21,381
West Butte Shallow Gas	Toole	Bow Island, Dakota	12,426

GAS PRODUCTION DATA - 1996
NATURAL GAS (continued)

Field	County	Reported Formation	Produced MCF
Whitewater	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	1,714,715
Whitewater, East	Phillips	Bowdoin, Carlile, Greenhorn, Phillips	354,817
Whitlash	Liberty	Bow Island, Dakota, Madison, Spike, Sunburst, Swift	500,244
Whitelash, West	Toole	Bow Island, Sunburst, Swift	17,096
Williams	Pondera	Bow Island	94,715
Willow Ridge	Toole	Bow Island, Dakota, Sunburst, Swift	215,818
Willow Ridge, South	Toole	Sunburst	161,355
Willow Ridge, West	Toole	Bow Island	3,661
Wildcat	Blaine	684,975
Wildcat	Hill	208,595
Wildcat	Stillwater	20,360
TOTAL NATURAL GAS			45,043,184

GAS PRODUCTION DATA - 1996

ASSOCIATED GAS

Field	County	Reported Formation	Produced MCF
Anvil	Roosevelt	Nisku, Ratcliffe, Red River, Winnipegosis	118,290
Bainville	Roosevelt	Ratcliffe, Red River, Winnipegosis	22,985
Bainville (Ratcliffe/Mission Canyon)	Roosevelt	Ratcliffe	1,620
Bainville, North	Roosevelt	Madison, Nisku, Ratcliffe, Red River, Winnipegosis	339,746
Bainville, West	Roosevelt	Red River	5,597
Bainville II	Roosevelt	Mission Canyon, Red River	27,219
Beanblossum	Garfield	Tyler	2,344
Bell Creek	Powder River	Muddy	1,438
Benrud, East	Roosevelt	Nisku	4,617
Black Diamond	Wibaux	Duperow, Madison, Nisku	807
Bloomfield	Dawson	Dawson Bay, Interlake, Red River	11,833
Breed Creek	Rosebud	Tyler	2,499
Brorson	Richland	Interlake, Madison, Ratcliffe, Red River	141,558
Brorson, South	Richland	Bakken, Madison, Mission Canyon	37,804
Brush Lake	Sheridan	Red River	19,132
Cabaret Coulee	Daniels	Madison	198
Cabin Creek	Fallon	Madison, Red River, Siluro-Ord	473,222
Canal	Richland	Madison, Mission Canyon, Red River	20,072
Cattails	Richland	Ratcliffe	49,955
Cattails, South	Richland	Madison, Ratcliffe	9,318
Charlie Creek	Richland	Dawson Bay	9,144
Charlie Creek, East	Richland	Red River	19,698
Clear Lake	Sheridan	Mission Canyon, Nisku, Ratcliffe, Red River	72,561
Clear Lake, South	Sheridan	Red River	2,003
Coalridge	Sheridan	Ratcliffe	45
Colored Canyon	Sheridan	Red River	3,036
Comertown	Sheridan	Nisku, Ratcliffe, Red River	25,275
Comertown, South	Sheridan	Red River	3,498
Cottonwood	Richland	Ratcliffe	8,857
Cottonwood, East	Roosevelt	Ratcliffe	1,780
Crane	Richland	Devonian, Duperow, Interlake, Red River	46,751
Cupton	Fallon	Red River	29,327
Cut Bank	Pondera, Glacier, Toole	Cut Bank, Lander, Madison	39,497
Dagmar	Sheridan	Red River	18,099
Deer Creek	Dawson	Charles	6,408
Diamond Point	Roosevelt	Interlake, Red River	25,065
Divide	Sheridan	Madison, Mission Canyon, Ratcliffe, Red River	70,562
Dooley	Sheridan	Ratcliffe	4,361
Dry Creek	Carbon	Greybull	75,257
Dwyer	Sheridan	Charles, Nisku, Red River	40,082
Eagle	Richland	Duperow, Madison, Ratcliffe, Red River	25,912
Elk Basin	Carbon	Embar, Frontier, Madison, Tensleep	376,685
Elk Basin, Northwest	Carbon	Cloverly, Frontier, Madison	57,196
Enid, North	Richland	Red River	16,202
Fairview	Richland	Madison, Mission Canyon, Ratcliffe, Red River	172,589
Fairview, East	Richland	Ratcliffe, Winnipegosis	5,872
Fairview, West	Richland	Madison	496
Fishhook	Sheridan	Red River	11,208
Flat Coulee	Liberty	Swift	5,741
Flat Lake	Sheridan	Nisku, Ratcliffe	49,882
Flat Lake, South	Sheridan	Ratcliffe	1,407
Fort Gilbert	Richland	Madison, Mission Canyon, Red River	28,721
Four Mile Creek	Richland	Red River	4,399
Four Mile Creek, West	Richland	Red River	15,678
Fred & George Creek	Toole	Sunburst	132
Frog Coulee	Richland	Red River	5,353
Froid, South	Roosevelt	Red River	3,765
Girard	Richland	Red River	5,592

GAS PRODUCTION DATA - 1996

ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Glendive	Dawson	Red River, Siluro-Ord, Stoney Mountain	27,837
Golden Dome	Carbon	Greybull	29,858
Goose Lake	Sheridan	Ratcliffe, Red River	20,610
Goose Lake, West	Sheridan	Red River	5,163
Gossett	Richland	Ratcliffe, Red River	7,206
Graben Coulee	Glacier	Cut Bank, Sunburst	14,509
Green Coulee	Sheridan	Red River	610
Gunsight	Roosevelt	Mission Canyon	10,052
Hawk Haven	Richland	Mission Canyon	1,822
Hay Creek	Richland	Mission Canyon, Red River	30,075
Hell Coulee	Daniels	Madison	70
Hiawatha	Musselshell	Tyler	537
High Five	Rosebud	Stensvad, Tyler	14,059
Intake II	Richland	Mission Canyon	8,334
Jim Coulee	Musselshell	Tyler	1,779
Katy Lake	Sheridan	Red River	13,362
Katy Lake, North	Sheridan	Madison, Mission Canyon, Nesson, Red River	83,875
Kevin-Sunburst	Toole	Madison, Sunburst, Swift	19,252
Kevin, East Nisku Oil	Toole	Nisku	7,331
Kincheloe Ranch, West	Rosebud	Tyler	3,642
Laird Creek	Liberty	Swift	468
Lambert	Richland	Red River	5,571
Landslide Butte	Glacier	Madison	84,986
Leary	Powder River	Muddy	13,880
Little Beaver	Fallon	Red River, Siluro-Ordovician	21,300
Little Beaver, East	Fallon	Mission Canyon, Red River, Siluro-Ordovician	10,574
Little Wall Creek	Musselshell	Stensvad, Tyler	9,792
Little Wall Creek, South	Musselshell	Tyler	7,786
Lone Butte	Richland	Mission Canyon, Red River	20,677
Lonetree Creek	Richland	Interlake, Red River	132,435
Long Creek, West	Roosevelt	Nisku	731
Lookout Butte	Fallon	Madison, Red River, Siluro-Ord	104,694
Lookout Butte, East	Fallon	Lodgepole, Red River	255,183
Lowell	Sheridan	Red River	2,656
Lustre	Valley	Charles, Mission Canyon, Ratcliffe	53,640
Lustre, North	Valley	Charles	2,592
McCabe	Roosevelt	Ratcliffe	3,819
McCoy Creek	Sheridan	Red River	1,270
Medicine Lake	Sheridan	Devonian, Gunton, Madison, Red River, Winnipegosis	45,213
Melstone	Musselshell	Tyler	16,143
Midfork	Valley	Charles, Nisku	17,467
Missouri Breaks	Richland	Nisku, Red River	2,465
Mon Dak, West	Richland	Duperow, Interlake, Madison, Mission Canyon, Ordovician, Red River, Stoney Mountain	218,314
Mona	Richland	Red River	22,873
Monarch	Fallon	Interlake, Red River, Siluro-Ordovician	22,638
Mustang	Richland	Bakken, Madison, Red River	47,980
Neiser Creek	Sheridan	Red River	97,694
Nielsen Coulee	Daniels	Madison	8,363
Ninemile	Toole	Nisku	3,435
Nohly	Richland	Madison, Mission Canyon, Nisku, Ratcliffe, Red River	243,096
North Fork	Richland	Mission Canyon	10,984
Ollie	Fallon	Red River	1,668
Otis Creek	Richland	Ratcliffe	3,804
Otis Creek, South	Richland	Ratcliffe	2,447
Outlook	Sheridan	Duperow, Nisku	28,647
Outlook, West	Sheridan	Winnipegosis	269

GAS PRODUCTION DATA - 1996 ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Oxbow	Roosevelt	Red River	18,244
Oxbow II	Roosevelt	Nisku	54,500
Palomino	Roosevelt	Nisku	4,092
Pennel	Fallon	Red River, Siluro-Ordovician, Stoney Mountain	544,285
Pine	Fallon, Wibaux, Prairie, Dawson	Mission Canyon, Siluro-Ordovician	192,314
Poplar, Northwest	Roosevelt	Charles	38,684
Pronghorn	Sheridan	Red River	680
Putnam	Richland	Bakken, Interlake, Madison, Red River	50,351
Ragged Point	Musselshell	Tyler	310
Rattlesnake Butte	Petroleum	Cat Creek	4,200
Raymond	Sheridan	Duperow, Mississippian, Nisku, Red River, Winnipegosis	242,051
Reagan	Glacier	Madison	109,293
Red Bank	Roosevelt	Madison, Mission Canyon, Ratcliffe	16,591
Red Bank, South	Roosevelt	Red River	4,518
Red Creek	Glacier	Cut Bank, Madison	16,774
Red Water, East	Richland	Red River	6,243
Refuge	Sheridan	Red River	5,175
Reserve	Sheridan	Red River	45,995
Reserve II	Sheridan	Interlake	829
Reserve South	Sheridan	Ratcliffe, Winnipegosis	780
Ridgelawn	Richland	Madison, Mission Canyon, Ratcliffe, Red River	70,281
Ridgelawn, North	Richland	Madison	13,858
RipRap Coulee	Roosevelt	Ratcliffe	28,141
River Bend	Richland	Red River	2,603
Rocky Point	Roosevelt	Red River	7,157
Royals	Dawson	Dawson Bay	5,848
Rudyard	Hill	Sawtooth	1
Rush Mountain	Sheridan	Gunton	18,822
Salt Lake	Sheridan	Red River	4,068
Second Creek	Richland	Mission Canyon, Ratcliffe, Red River	12,795
Shotgun Creek	Roosevelt	Ratcliffe	9,049
Sidney	Richland	Madison, Mission Canyon, Ratcliffe, Red River	28,800
Singletree	Roosevelt	Nisku	154
Sioux Pass	Richland	Interlake, Red River	66,836
Sioux Pass, Middle	Richland	Red River	31,644
Sioux Pass, North	Richland	Madison, Nisku, Ratcliffe, Red River	98,316
Sioux Pass, South	Richland	Red River	309
South Fork	Richland	Mission Canyon, Red River	21,194
Spring Lake	Richland	Bakken, Dawson Bay	18,944
Spring Lake, West	Richland	Bakken	5,490
Stampede	Richland	Madison, Red River	29,807
Sunny Hill, West	Sheridan	Ratcliffe	9,771
Target	Roosevelt	Nisku	8,881
Three Buttes	Richland	Bakken, Red River	12,387
Tule Creek	Roosevelt	Devonian, Nisku	12,903
Tule Creek, East	Roosevelt	Nisku	4,107
Utopia	Liberty	Swift	12,616
Vaux	Richland	Bakken, Interlake, Madison, Mission Canyon, Ratcliffe, Red River, Stonewall	136,548
Wakea	Sheridan	Duperow, Nisku, Red River, Winnipegosis	32,435
Weed Creek	Yellowstone	Amsden	750
Whitlash	Liberty	Sunburst, Swift	27,330
Wills Creek, South	Fallon	Siluro-Ord	16,338
Woodrow	Dawson	Charles, Interlake	4,320
Wrangler	Sheridan	Red River	16,839
Wright Creek	Powder River	Muddy	9,171

TOTAL ASSOCIATED GAS

6,538,349

REFINERS' ANNUAL REPORT — 1996

COMPANY	BEGINNING STORAGE	MONTANA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
Cenex	341,690	1,518,735	888,823	14,019,969	16,556,765	212,452
Conoco	138,929	285,917	480,852	17,890,145	18,645,626	150,217
Exxon Corp.	199,533	714,231	8,316,697	8,829,952	17,674,383	386,030
Montana Refining Co.	16,510	514,526	-0-	1,808,948	2,323,340	16,644
TOTALS	696,662	3,033,409	9,686,372	42,549,014	55,200,114	765,343

PERCENTAGE OF CRUDE OIL RECEIVED

YEAR	MONTANA	CANADA	WYOMING
1992	8.34	60.02	31.64
1993	6.86	62.59	30.55
1994	5.94	71.40	22.66
1995	5.92	74.47	19.61
1996	5.49	76.98	17.53

AVERAGE BARRELS PER DAY

YEAR	MONTANA	CANADA	WYOMING	TOTAL
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
1995	8,333	104,837	27,600	140,770
1996	8,288	116,254	26,466	151,008

REFINING FIVE YEAR COMPARISON

1992	1993	1994	1995	1996
47,131,774	49,442,849	52,157,319	51,400,112	55,200,114

1996 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS
Ace High	Rosebud	0	3,686
Agawan	Teton	0	79
Alkali Coulee	Sheridan	0	19,546
Andes	Richland	0	21,175
Antelope, North	Sheridan	0	2,484
Anvil	Roosevelt	123,542	4,585,792
Anvil, North	Sheridan	0	9,446
Ash Creek	Big Horn	3,373	865,015
Ator Creek	Sheridan	13,261	15,058
Autumn	Valley	0	35,546
Bainville	Roosevelt	27,845	982,221
Bainville (Ratcliffe/			
Mission Canyon)	Roosevelt	3,724	9,955
Bainville II	Roosevelt	25,381	782,051
Bainville, North	Roosevelt	518,101	3,195,370
Bainville, West	Roosevelt	5,485	251,406
Bannatyne	Teton	6,693	415,371
Bascom	Musselshell	0	27,830
Beanblossom	Garfield	19,981	587,075
Bear's Den	Liberty	35,796	694,825
Belfry	Carbon	0	101,245
Bell Creek	Powder River	103,464	132,051,043
Benrud	Roosevelt	0	289,695
Benrud, East	Roosevelt	19,234	2,950,640
Benrud, Northeast	Roosevelt	3,613	1,019,143
Berthelote	Toole	866	97,646
Big Gully	Musselshell	597	113,632
Big Gully, North	Musselshell	0	29,892
Big Muddy Creek	Roosevelt	0	1,326,087
Big Rock	Glacier	0	12,444
Big Wall	Musselshell	50,786	8,177,565
Big Wall, North	Musselshell	0	7,218
Black Diamond	Wibaux	5,876	659,871
Blackfoot	Glacier	22,812	1,715,356
Blackfoot, East	Glacier	0	810
Blackleaf Canyon	Teton	0	32,922
Bloomfield	Dawson	14,025	583,907
Blue Hill	Richland	11,568	173,819
Blue Mountain	Wibaux	9,453	78,711
Border	Toole	5,963	1,471,828
Boulder	Richland	0	156,754
Bowes	Blaine	102,948	10,628,348
Box Canyon	Richland	0	245,847
Bradley	Glacier	1,399	268,077
Brady	Pondera	5,279	223,873
Bredette	Roosevelt	0	232,121
Bredette, North	Roosevelt	0	488,554
Breed Creek	Rosebud	142,367	1,944,217
Brorson	Richland	170,270	4,268,866
Brorson, South	Richland	55,553	2,147,349
Brush Lake	Sheridan	47,469	2,893,827
Buffalo Flats	Chouteau	0	603
Buffalo Lake	Glacier	0	936
Burget	Roosevelt	0	6,504
Burget, East	Roosevelt	14,259	296,720
Burns Creek	Dawson,		
	Richland	297	259,284
Burns Creek, South	Dawson	0	79,958

FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS
Butchers Creek	Carbon	0	579
Bynum	Teton	0	5,971
Cabaret Coulee	Daniels	2,199	441,545
Cabin Creek	Fallon	1,454,189	101,014,092
Cadmus	Glacier	0	1,173
Canadian Coulee	Hill	0	2,145
Canal	Richland	20,338	1,265,164
Cannonball	Fallon	0	74,779
Carlyle	Wibaux	3,409	329,640
Cat Creek	Petroleum, Garfield	37,212	23,886,018
Cattails	Richland	56,960	828,443
Cattails, South	Richland	15,315	159,300
Charlie Creek	Richland	23,161	818,135
Charlie Creek, East	Richland	42,714	858,869
Charlie Creek, North	Richland	0	43,894
Chelsea Creek	Roosevelt	5,682	122,992
Clark's Fork	Carbon	492	94,184
Clark Fork's, North	Carbon	0	1,024,608
Clark Fork's, South	Carbon	0	80,553
Clear Lake	Sheridan	141,320	3,672,775
Clear Lake, South	Sheridan	7,339	209,855
Coal Ridge	Sheridan	145	22,937
Colored Canyon	Sheridan	5,799	893,990
Comertown	Sheridan	64,787	2,733,217
Comertown, South	Sheridan	15,466	415,395
Conrad, South	Pondera	0	159,410
Corner Pocket	Richland	0	14,483
Cottonwood	Richland	27,906	325,609
Cottonwood, East	Roosevelt	9,820	78,004
Cow Creek	McCone	0	127,813
Cow Creek, East	McCone	14,634	2,616,712
Crane	Richland	64,222	2,617,266
Crocker Springs, East	Pondera	0	3,464
Crooked Creek	Yellowstone	0	27,395
Culbertson	Roosevelt	0	175,652
Cupton	Fallon	54,668	2,622,727
Curlew	Sheridan	0	5,468
Cut Bank	Glacier, Toole	474,905	166,649,134
Dagmar	Sheridan	14,390	642,002
Dagmar, North	Sheridan	0	55,342
Deadman's Coulee	Roosevelt	0	264,528
Dean Dome	Stillwater	0	92,597
Deer Creek	Dawson	33,089	2,465,674
Delphia	Musselshell	2,199	352,404
Den	Daniels	27,758	145,389
Devil's Basin	Musselshell	1,379	128,933
Devil's Pocket	Golden Valley	0	53,796
Diamond Point	Roosevelt	27,751	1,018,263
Divide	Sheridan	106,815	2,769,825
Dooley	Sheridan	15,779	298,962
Dry Creek	Carbon	1,729	4,165,187
Dry Creek, Middle	Carbon	2	1,694
Dry Creek, West	Carbon	284	13,538
Dugout Coulee	Richland	0	66,740
Dunkirk, North	Toole	0	19
Dutch Henry	Daniels	5,585	85,335
Dutch John Coulee	Toole	6,697	237,504
Dwyer	Sheridan	93,292	8,975,371

1996 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS
Eagle	Richland	39,673	2,103,529	Highview	Pondera	2,980	101,009
East Glacier	Glacier	458	24,758	Homestead	Roosevelt	0	303
Elk Basin	Carbon	502,777	86,390,322	Honker	Sheridan	0	117,078
Elk Basin, Northwest	Carbon	62,295	2,232,973	Horse Creek	Liberty	0	13,516
Enid, North	Richland	14,309	446,107	Howard Coulee	Musselshell	5,648	186,557
Epworth	Richland	0	55,142	Injun Creek	Rosebud	1,526	130,772
Fairview	Richland	116,350	9,275,410	Intake II	Richland	17,653	915,933
Fairview, East	Richland	16,248	449,535	Ivanhoe	Musselshell	24,227	4,619,248
Fairview, West	Richland	60,744	385,397	Jack Creek	Carbon	0	1,310
Fiddler Creek	Stillwater	0	2,574	Jim Coulee	Musselshell	22,285	4,447,546
Fishhook	Sheridan	17,344	1,137,188	Katy Lake	Sheridan	7,634	192,176
Fitzpatrick Lake	Toole	0	257	Katy Lake, North	Sheridan	167,018	5,322,496
Flat Coulee	Liberty	61,814	5,283,909	Keg Coulee	Musselshell	15,597	5,749,234
Flat Lake	Sheridan	167,659	16,507,558	Keg Coulee, North	Musselshell	2,308	443,264
Flat Lake, East	Sheridan	10,951	129,408	Kelley	Musselshell	2,223	1,026,492
Flat Lake, South	Sheridan	6,283	1,255,173	Kevin Nisku Oil, East	Toole	38,296	569,624
Flaxville	Daniels	0	56,283	Kevin Sunburst	Toole	227,027	80,625,113
Fort Gilbert	Richland	29,419	2,388,474	Kicking Horse	Toole	0	1,526
Four Buttes	Sheridan	0	41,067	Kincheloe Ranch, West	Rosebud	13,100	800,059
Four Mile Creek	Richland	7,548	414,398	Kippen, East	Toole	0	150
Four Mile Creek, West	Richland	24,106	402,835	Krug Creek	Dawson	0	15,288
Fox Creek	Richland	0	200,464	Laird Creek	Liberty	3,906	604,829
Fox Creek, North	Richland	0	75,398	Lake Basin	Stillwater	0	473,639
Frannie	Carbon	0	773,613	Lakeside	Roosevelt	0	487
Fred & George Creek	Toole	34,301	13,386,103	Lambert	Richland	7,064	505,987
Frog Coulee	Richland	15,043	239,381	Lambert, North	Richland	0	36,552
Froid, South	Roosevelt	4,710	265,075	Lambert, South	Richland	29,257	29,257
Gage	Musselshell	1,350	654,239	Lamesteer Creek	Wibaux	0	31,845
Gage, Southwest	Musselshell	0	16,289	Landslide Butte	Glacier	36,509	561,064
Gas City	Dawson	68,965	10,516,407	Lariat	Sheridan	0	3,599
Gettysburg	Richland	0	304	Laurel	Yellowstone	0	1,017
Girard	Richland	19,927	543,783	Leary	Powder River	5,643	673,439
Glendive	Dawson	115,408	13,679,228	Ledger	Toole	0	275
Glendive, South	Dawson	0	68,936	Line Coulee	Daniels	0	57,789
Golden Dome	Carbon	2,529	111,893	Lisk Creek	Richland	0	1,939
Goose Lake	Sheridan	112,321	9,721,778	Little Beaver	Fallon	229,568	14,698,730
Goose Lake, East	Sheridan	0	4,522	Little Beaver, East	Fallon	94,674	6,331,259
Goose Lake, Southeast	Sheridan	0	45,527	Little Phantom	Toole	375	57,464
Goose Lake, West	Sheridan	12,973	602,746	Little Wall Creek	Musselshell	118,858	4,947,542
Gossett	Richland	9,908	389,097	Lobo	Sheridan,		
Graben Coulee	Glacier	28,600	2,366,115		Roosevelt	0	260,141
Grandview	Liberty	0	9,784	Lodge Grass	Big Horn	6,779	349,761
Grandview, East	Liberty	1,365	58,319	Lone Butte	Richland	20,767	789,694
Gray Blanket	Big Horn	22,101	184,584	Lone Rider	Roosevelt	0	5,903
Green Coulee	Sheridan	4,111	208,515	Lonetree Creek	Richland	197,997	4,211,626
Green Coulee, East	Sheridan	0	62,942	Lonetree Creek, West	Richland	0	33,029
Gumbo Ridge	Rosebud	3,686	604,329	Long Creek	Roosevelt	2,130	83,488
Gunsight	Roosevelt	16,966	339,425	Long Creek, West	Roosevelt	20,653	793,697
Gypsy Basin	Pondera	1,718	506,753	Lookout Butte	Fallon	540,103	27,176,352
Hardpan	Pondera	0	2,805	Lookout Butte, East	Fallon	497,492	2,635,093
Hardscrabble Creek	Richland	0	136,648	Lost Creek	McCone	0	1,534
Hawk Creek	Musselshell	0	13,277	Lowell	Sheridan	8,434	293,700
Hawk Haven	Richland	3,822	28,759	Lustre	Valley	143,237	5,451,548
Hay Creek	Richland	47,721	1,527,102	Lustre, North	Valley	3,367	187,794
Hell Coulee	Daniels	239	53,815	Mackay Dome	Stillwater	0	77,334
Hiawatha	Musselshell	10,448	1,647,799	Malcolm Creek	Sheridan	0	11,450
Hibbard	Rosebud	0	219,686	Mason Lake	Musselshell	4,220	995,997
High Five	Rosebud	81,143	2,766,506	Mason Lake, North	Musselshell	0	17,923

1996 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS
McCabe	Roosevelt	4,916	263,977	Pronghorn	Sheridan	5,988	467,323
McCabe, East	Roosevelt	0	6,805	Putnam	Richland	75,155	5,348,933
McCabe, South	Roosevelt	0	6,599	Rabbit Hills	Blaine	153,020	1,801,750
McCabe, West	Roosevelt	0	69,988	Ragged Point	Musselshell	1,971	2,602,819
McCoy Creek	Sheridan	3,177	65,174	Ragged Point,			
Meander	Pondera	190	6,970	Southwest	Musselshell	26,983	1,733,322
Medicine Lake	Sheridan	70,500	3,760,948	Rainbow	Richland	0	166,375
Melstone	Musselshell	39,923	3,896,923	Rattler Butte	Rosebud	48,446	1,073,089
Midby	Sheridan	0	70,172	Rattlesnake Butte	Petroleum	15,484	616,028
Midfork	Valley	58,796	518,672	Rattlesnake Coulee	Toole	0	91,024
Mineral Bench	Roosevelt	0	186,656	Raymond	Sheridan	124,356	5,210,401
Miners Coulee	Toole	0	152,708	Raymond, North	Sheridan	0	119,990
Missouri Breaks	Richland	15,697	395,593	Raymond, Northeast	Sheridan	0	120,687
Mon Dak, West	Richland	249,121	10,733,911	Reagan	Glacier	104,939	9,497,252
Mona	Richland	4,695	144,410	Red Bank	Roosevelt	55,493	2,133,826
Monarch	Fallon	195,506	6,615,977	Red Bank, South	Roosevelt	7,801	376,177
Mosser Dome	Yellowstone	5,243	422,332	Red Creek	Glacier	87,090	6,683,291
Musselshell	Musselshell	589	40,002	Red Fox	Roosevelt	0	380,137
Mustang	Richland	53,513	814,256	Red Water	Richland	2,920	81,390
Neiser Creek	Sheridan	67,446	381,209	Red Water, East	Richland	7,193	269,804
Nielsen Coulee	Daniels	17,290	201,237	Redstone	Sheridan	0	468,178
Ninemile	Toole	2,507	59,237	Refuge	Sheridan	5,171	237,773
Nohly	Richland	289,307	6,583,510	Repeat	Carter	0	547,064
Nohly, South	Richland	0	125,082	Reserve	Sheridan	66,189	1,870,476
North Fork	Richland	12,421	567,926	Reserve II	Sheridan	2,020	212,917
Olje	Sheridan	131	163,449	Reserve, South	Sheridan	15	67,417
Ollie	Fallon	3,903	254,922	Richey	Dawson, McCone	23	2,030,144
Otis Creek	Richland	7,779	885,842	Richey Area, West	McCone	0	11,062
Otis Creek, South	Richland	5,905	282,331	Richey, East	Dawson	0	10,386
Otter Creek	Sheridan	0	28,492	Richey, Southwest	McCone	0	1,903,129
Outlet	Daniels	0	6,384	Ridgelawn	Richland	193,222	6,924,038
Outlook	Sheridan	29,566	8,972,338	Ridgelawn, North	Richland	22,262	199,586
Outlook, South	Sheridan	0	693,151	RipRap Coulee	Roosevelt	25,399	760,853
Outlook, Southwest	Sheridan	13,442	96,862	River Bend	Richland	2,250	275,733
Outlook, West	Sheridan	19,345	919,498	Rocky Point	Roosevelt	10,898	547,561
Oxbow	Roosevelt	13,130	485,404	Roscoe Dome	Carbon	0	15,556
Oxbow II	Roosevelt	90,272	461,618	Rosebud	Rosebud	4,064	573,093
Palomino	Roosevelt	107,334	2,457,671	Rough Creek	Powder River	0	3,599
Pasture	Dawson	0	2,869	Royals	Dawson	6,996	343,148
Pasture Creek	Dawson	0	1,914	Royals, South	Dawson	0	3,082
Pelican	Sheridan	0	191,494	Rudyard	Hill	645	22,429
Pennel	Fallon	2,163,591	92,683,851	Runaway	Teton	0	4,532
Pete Creek	Toole	0	23,343	Rush Mountain	Sheridan	37,271	683,890
Phantom	Toole	0	43,585	Salt Lake	Sheridan	39,734	1,014,635
Pine	Dawson, Fallon, Prairie, Wibaux	845,913	113,855,591	Salt Lake, West	Sheridan	23,305	151,576
Pine, East	Wibaux	0	19,349	Sand Creek	Dawson	13,000	2,365,738
Pipeline	Sheridan	0	16,424	Saturn	Daniels	0	32,773
Plentywood	Sheridan	0	22,830	Scobey	Daniels	0	3,916
Pole Creek	Musselshell	0	169,726	Second Creek	Richland	21,133	1,362,196
Police Coulee	Toole	0	14	Second Guess	Teton	1,785	18,338
Pondera	Pondera, Teton	206,844	27,097,727	Sheepherder	Musselshell	0	76,942
Pondera Coulee	Teton	2,774	96,870	Shotgun Creek	Roosevelt	49,628	537,147
Poplar, East	Roosevelt	125,234	46,332,995	Shotgun Creek, North	Roosevelt	0	89,673
Poplar, Northwest	Roosevelt	86,390	4,115,624	Sidney	Richland	38,271	3,416,350
Poplar, Southeast	Roosevelt	0	162,546	Sidney, East	Richland	3,073	587,632
Prairie Dell	Toole	0	1,575	Singletree	Roosevelt	808	373,979
Prairie Elk	McCone	0	104,226	Sioux Pass	Richland	92,400	3,875,254
Prichard Creek	Toole	223	164,428	Sioux Pass, East	Richland	0	89,267
				Sioux Pass, Middle	Richland	40,778	1,655,222

1996 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1996 BARRELS	CUMULATIVE BARRELS
Sioux Pass, North	Richland	105,686	4,548,935	West Fork	Roosevelt	0	6,671
Sioux Pass, South	Richland	959	294,686	Weygand	Blaine	10,707	333,981
Smoke Creek	Daniels	0	100,305	Whitlash	Liberty, Toole	26,542	5,520,023
Snoose Coulee	Liberty	325	6,383	Whitlash, West	Toole	798	132,214
Snowden	Roosevelt	0	1,938	Wibaux	Wibaux	0	23,580
Snyder	Big Horn	1,181	475,773	Willow Creek, North	Musselshell	4,252	399,654
Soap Creek	Big Horn	38,138	2,878,782	Willow Ridge	Toole	1,437	58,069
Soap Creek, East	Big Horn	6,800	192,975	Willow Ridge, South	Toole	0	3,267
South Fork	Richland	18,622	1,081,391	Wills Creek, South	Fallon	125,332	1,318,287
Spring Lake	Richland	46,742	1,213,828	Windmill	Richland	0	31,943
Spring Lake, South	Richland	0	110,660	Winnett Junction	Musselshell	19,709	1,026,816
Spring Lake, West	Richland	3,567	64,611	Wolf Creek	Roosevelt	0	1,979
Stampede	Richland	15,238	374,857	Wolf Springs	Yellowstone	11,159	4,818,069
Stampede, North	Richland	0	4,566	Wolf Springs, South	Yellowstone	6,343	885,909
Stensvad	Musselshell, Rosebud	14,655	10,250,542	Woman's Pocket	Golden Valley	0	3,526
Studhorse	Garfield	2,928	199,005	Woodrow	Dawson	13,977	1,277,728
Sumatra	Rosebud	194,125	45,465,525	Wrangler	Sheridan	22,636	678,690
Sundown	Richland	3,870	3,870	Wrangler, North	Sheridan	3,437	140,475
Sunnyhill	Sheridan	1,604	265,338	Wright Creek	Powder River	6,555	345,207
Sunnyhill, West	Sheridan	7,496	183,145	Yates	Wibaux	0	70,861
Target	Roosevelt	36,510	896,770	Yellowstone	Dawson	0	39,405
Thirty Mile	Blaine	203	11,893	Wildcat	Blaine	15,402	15,402
Three Buttes	Richland	22,630	491,549	Wildcat	Carbon	0	6,368
Tinder Box	Musselshell	1,184	15,822	Wildcat	Daniels	0	3,779
Tippy Buttes	Musselshell	0	126,246	Wildcat	Dawson	0	1,489
Tule Creek	Roosevelt	45,138	8,349,317	Wildcat	Fallon	0	11,647
Tule Creek, East	Roosevelt	3,451	2,046,094	Wildcat	Garfield	0	468
Tule Creek, South	Roosevelt	7,340	968,788	Wildcat	Glacier	0	48,412
Two Medicine Creek	Glacier	0	10,249	Wildcat	Hill	0	405
Two Waters	Richland	3,918	338,608	Wildcat	Liberty	0	3,254
Utopia	Liberty	16,677	756,898	Wildcat	McCone	0	12,575
Vaux	Richland	170,420	4,864,024	Wildcat	Musselshell	0	925
Vida	McCone	0	264,988	Wildcat	Powder River	0	27,445
Viking	Sheridan	0	160	Wildcat	Richland	0	339,856
Volt	Roosevelt	75,826	3,609,009	Wildcat	Roosevelt	0	87,044
Wagon Box	Musselshell	0	32,379	Wildcat	Sheridan	1,767	21,259
Wagon Trail	Richland	0	43,321	Wildcat	Stillwater	0	11,283
Wakea	Sheridan	75,278	2,625,852	Wildcat	Teton	0	9,324
Weed Creek	Yellowstone	1,596	616,291	Wildcat	Toole	0	36,379
Weldon	McCone	0	7,050,531	Wildcat	Valley	0	447
West Butte	Toole	3,056	314,147	Wildcat	Wibaux	0	8,388
				Statewide Totals		16,151,607	1,420,439,123

1996 VALUATION REPORT

OIL MARKETED	OIL (BBLs)	VALUE	AVG (\$/BBL)
First Quarter	3,878,891	63,440,594	16.36
Second Quarter	4,012,376	73,566,152	18.33
Third Quarter	4,110,093	78,666,159	19.14
Fourth Quarter	<u>3,955,378</u>	<u>84,504,414</u>	<u>21.36</u>
TOTAL	15,956,738	300,177,319	18.81

Estimated cumulative value for produced oil (12/31/96) is \$12,420,186,685.

GAS MARKETED	GAS (MCF)	VALUE	AVG (\$/MCF)
First Quarter	12,333,250	17,326,128	1.40
Second Quarter	10,940,148	13,774,947	1.26
Third Quarter	10,821,387	13,768,002	1.27
Fourth Quarter	<u>12,773,325</u>	<u>21,392,306</u>	<u>1.67</u>
TOTAL	46,868,110	66,261,383	1.41

Information provided by Montana Department of Revenue.

1996 WELL COMPLETIONS

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API#	FIELD	FORMATION	COMPLETION DATE	TOTAL DEPTH	IP OIL	IP GAS
001 Beaverhead										
Basin Exploration, Inc.	SESW 4 13S 9W	Martinell 24-4	6	21016	Wildcat		01/29/96	8621	0	0
003 Big Horn										
Northern Cheyenne Tribes	SWNW 8 5S 40E	Killsnight 2	8	21201	Wildcat		12/27/96	1447	0	0
005 Blaine										
Behm, L. E., Inc.	NWNW 36 34N 19E	State Rabbit 1-36	1	22696	Wildcat	Sawtooth	07/13/96	4090	100	0
Brown, J. Burns Operating Co.	NWSE 27 35N 17E	Federal 27-35-17B	5	22680	Wildcat	Eagle	01/13/95	1730	0	0
Brown, J. Burns Operating Co.	NESE 33 32N 21E	Gardner 33-32-21	5	22697	Wildcat		05/09/96	1450	0	0
Trinity Petroleum Exploration	NWSE 19 33N 22E	PHF Fee 33-19	5	22691	Wildcat		09/17/95	2850	0	0
Trinity Petroleum Exploration	NESW 16 37N 21E	Irvin Coulee 23-16	5	22692	Wildcat		07/10/96	3484	0	0
Trinity Petroleum Exploration	NESW 20 36N 21E	Federal 23-20	5	22693	Wildcat		07/11/95	3446	0	0
Trinity Petroleum Exploration	SESE 32 34N 21E	Federal 44-32	5	22694	Wildcat		12/18/95	2985	0	0
Trinity Petroleum Exploration	SESW 19 35N 21E	Fee 24-19	5	22695	Wildcat		06/05/96	3150	0	0
UMC Petroleum Corp. (Ensource)	NESW 2 31N 18E	Finch 2-11	2	22698	Tiger Ridge	Eagle	11/01/96	1600	0	23
011 Carter										
Sands Oil Company	NWSE 28 2S 57E	Laird Ranch 1	6	21339	Wildcat		04/01/96	1190	0	0
019 Daniels										
Armstrong Operating, Inc.	NENW 20 33N 48E	Manternach 20-1	6	21129	Wildcat		05/17/96	6748	0	0
Berenergy Corporation	SWSE 35 35N 47E	Anderson State 1	8	21128	Wildcat		11/16/95	6849	0	0
021 Dawson										
Kirkwood, W. C.	SENE 4 15N 54E	Guelf 1 ReEntry	1	05115	Sand Creek	Charles	04/18/96	9684	139	0
Samedan Oil Corporation	NENE 35 17N 53E	Guelf 41-35H	4**	21126	Deer Creek	Charles	12/18/96	13130	78	20
025 Fallon										
Bowers Oil & Gas, Inc.	SWSE 6 4N 61E	Johnson 2-6	5	21609	Wildcat	Shannon	07/21/96	1908	0	0
Burlington Resources Oil & Gas	SWSW 29 7N 61E	ELOB 14-29SH	1	21597	Lookout Butte East	Red River	06/19/96	13400	142	0
Burlington Resources Oil & Gas	SWSE 30 7N 61E	ELOB 34-30NH	1	21601	Lookout Butte East	Red River	12/26/96	15237	136	0
Burlington Resources Oil & Gas	SWSE 30 7N 61E	ELOB 34-30SH	1	21602	Lookout Butte East	Red River	12/18/96	13641	87	0
Burlington Resources Oil & Gas	SWNW 1 6N 60E	ELOB 12-1SH	1	21603	Lookout Butte East	Red River	10/17/96	11868	122	0
Burlington Resources Oil & Gas	NESE 1 6N 60E	ELOB 43-1NH	1	21587	Lookout Butte East(waterflood)	Red River	02/22/96	12241	50	163
Burlington Resources Oil & Gas	NESE 31 7N 61E	ELOB 43-31NH	1	21590	Lookout Butte East(waterflood)	Red River	08/29/96	14483	266	0
Burlington Resources Oil & Gas	SWSW 6 6N 61E	ELOB 14-6SH	1	21591	Lookout Butte East(waterflood)	Red River	03/30/96	14133	26	0
Shell Western E & P Inc.	SESW 10 9N 58E	Unit 22X-10AH	1	21593	Cabin Creek	Silurian/Ordov.	05/22/96	11399	67	19
Shell Western E & P Inc.	SESE 17 10N 58E	Unit 44-17H	1	21594	Cabin Creek	Red River	04/03/96	13600	26	8
Shell Western E & P Inc.	NESW 2 4N 61E	Unit 23-02HzReEntry	1	21286	Little Beaver	Red River	08/26/96	11133	125	10
Shell Western E & P Inc.	SWSE 7 5N 61E	Unit 34-7RH	1	21599	Little Beaver, East	Red River	12/05/96	10765	242	67
Shell Western E & P Inc.	SWSE 28 5N 61E	Unit 34X-28H	1	21616	Little Beaver, East	Red River	10/28/96	11444	415	0
Shell Western E & P Inc.	NWSE 3 6N 60E	Coral 31-03HzReEntry	1	21364	Lookout Butte	Red River	07/11/96	11608	209	33
Shell Western E & P Inc.	SWSE 36 9N 58E	State 34-36HzReEntry	1	05388	Monarch	Red River	08/06/96	10741	295	95
Shell Western E & P Inc.	SWNW 36 9N 58E	Monarch 12X-36H	1	21588	Monarch		05/03/96	11895	21	2
Shell Western E & P Inc.	SWSW 32 9N 59E	Monarch 14-32H	1	21596	Monarch	Red River	06/12/96	12334	140	95
Shell Western E & P Inc.	SWNW 2 8N 59E	Monarch 11X-2H	1	21598	Monarch	Red River	09/21/96	12742	281	121
Shell Western E & P Inc.	NWSW 17 8N 60E	Unit 13-17CHzReEnt	1	21371	Pennel	Red River	08/29/96	11329	90	10
Shell Western E & P Inc.	SWSW 15 8N 59E	Unit 14X-15H	1	21583	Pennel	Red R./Ston. Mtn	02/09/96	12007	32	0
Shell Western E & P Inc.	SWSW 23 8N 59E	Unit 14-23H	1	21592	Pennel	Red River	02/23/96	10126	70	10
Shell Western E & P Inc.	SWSE 2 9N 58E	S Wills Creek 34-2H	1	21595	Wills Creek, South	Red River	10/17/96	12394	223	23
Union Pacific Resources Co.	NENE 19 9N 61E	Wang 41-19H	6	21617	Wildcat		10/08/96	14993	0	0
Williston Basin Interstate	SESW 9 6N 60E	Fee 474	2	21604	Cedar Creek	Eagle	11/01/96	1950	0	525
Williston Basin Interstate	SESW 15 6N 60E	Fee 473	2	21605	Cedar Creek	Eagle	12/10/96	1900	0	802
Williston Basin Interstate	SESW 19 7N 60E	Fee 469	2	21606	Cedar Creek	Eagle	10/30/96	1900	0	457
Williston Basin Interstate	SESE 29 7N 60E	Fee 471	2	21607	Cedar Creek	Eagle	12/09/96	1950	0	902
Williston Basin Interstate	NWSE 33 7N 60E	Fee 472	2	21608	Cedar Creek	Eagle	10/28/96	1972	0	462
Williston Basin Interstate	S2SE 14 6N 60E	Federal 477	2	21610	Cedar Creek	Eagle	10/31/96	1950	0	233
Williston Basin Interstate	NWNW14 6N 60E	Federal 476	2	21611	Cedar Creek	Eagle	11/01/96	1950	0	276
Williston Basin Interstate	NWSE 22 6N 60E	Federal 478	2	21612	Cedar Creek	Eagle	12/11/96	1911	0	505
Williston Basin Interstate	SWSE 3 6N 60E	Fee 481	2	21613	Cedar Creek	Eagle	11/15/96	1972	0	308
Williston Basin Interstate	NWSE 25 6N 60E	Fee 482	2	21615	Cedar Creek	Eagle	12/14/96	1850	0	440
Williston Basin Interstate	NWNW 6 5N 61E	Federal 499	2	21619	Cedar Creek	Eagle	12/11/96	1800	0	413
Williston Basin Interstate	NWSE 35 6N 60E	Fee 496	2	21621	Cedar Creek	Eagle	12/11/96	1900	0	462
Williston Basin Interstate	SWSE 31 6N 61E	Fee 497	2	21622	Cedar Creek	Eagle	12/12/96	1900	0	455
Williston Basin Interstate	SWSE 28 7N 60E	Fee 484	2	21623	Cedar Creek	Eagle	12/14/96	1900	0	259
Williston Basin Interstate	SWSE 6 5N 61E	Federal 2001	2	21625	Cedar Creek	Eagle	12/13/96	1700	0	535
Williston Basin Interstate	NWNW 1 5N 60E	Fee 498	2	21626	Cedar Creek	Eagle	12/04/96	1900	0	601
Williston Basin Interstate	NENW 7 5N 61E	Fee 492	2	21627	Cedar Creek	Eagle	12/15/96	1800	0	718
Williston Basin Interstate	SESW 31 6N 61E	Fee 495	2	21629	Cedar Creek	Eagle	12/12/96	1810	0	453
Williston Basin Interstate	SESE 1 5N 60E	Fee 2000	2	21630	Cedar Creek	Eagle	12/15/96	1850	0	648
Williston Basin Interstate	NWSE 7 5N 61E	Fee 2004	2	21631	Cedar Creek	Eagle	12/13/96	1900	0	639
035 Glacier										
Croft Petroleum Company	SESW 11 37N 6W	Muntzing 7-5	1	21929	Blackfoot	Madison	02/13/96	3510	9	0
FX Drilling Co., Inc.	SWNW 32 32N 5W	Well 102-W17	3	21928	Cut Bank		03/08/96	3000	0	0
FX Drilling Co., Inc.	NWN 32 32N 5W	Tract 101-W7	7	21933	Cut Bank	Cut Bank	12/31/95	2998	0	0
FX Drilling Co., Inc.	NWNE 32 32N 5W	Tract 101-W8	7	21934	Cut Bank	Cut Bank	12/28/95	2960	0	0
Gypsy Highview Gathering	SWNE 2 33N 6W	NCCBSU 69-5	1	21924	Cut Bank	Cut Bank	09/19/95	3039	0	0
Gypsy Highview Gathering	NESE 35 34N 6W	NCCBSU 66-3	1	21925	Cut Bank	Cut Bank	09/11/95	3010	8	0
Gypsy Highview Gathering	NESW 35 34N 6W	NCCBSU 63-7	1	21932	Cut Bank	Cut Bank	11/07/95	3049	22	0
Gypsy Highview Gathering	NWSE 35 34N 6W	NCCBSU 66-4	1	21938	Cut Bank	Cut Bank	01/16/96	3041	20	0
Havre Drilling Co	NENE 27 37N 5W	Vasboe 27-1	2	21937	Cut Bank	Sunburst	02/15/96	2640	0	25
K2 America Corporation	CNE 18 32N 5W	Berreyesa B618	1	21939	Cut Bank	Ellis	05/13/96	2914	0	0
K2 America Corporation	N2SE 20 32N 5W	Wamsley F620	1	21940	Cut Bank	Ellis	05/21/96	2800	5	0
K2 America Corporation	LT 4 5 32N 5W	Klemens C405	3	21943	Cut Bank		06/09/96	2925	0	0
K2 America Corporation	SESW 9 32N 5W	Texaco Fee D209	1	21944	Cut Bank	Cut Bank	06/28/96	3253	0	0
K2 America Corporation	N2SE 17 32N 5W	Hardwick F617	1	21947	Cut Bank	Ellis	06/19/96	3135	0	0
K2 America Corporation	NESE 7 32N 5W	Berreyesa F707	1	21948	Cut Bank	Ellis	06/24/96	3019	0	0
Mountain States Resources Inc	NENE 21 37N 5W	Berkram 21-1	4**	21936	Cut Bank	Sunburst	11/28/95	2793	2	0

1996 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API#	FIELD	FORMATION	COMPLETION DATE	TOTAL DEPTH	IP OIL	IP GAS
041 Hill										
Brown, J. Burns Operating Co.	NWNW 19 35N 13E	Larson 19-4 ReEntry	5	21796	Wildcat		10/20/95	3825	0	0
Brown, J. Burns Operating Co.	SENE 33 4N 16E	Leo 3-34-16E	5	22562	Wildcat		06/13/96	1450	0	0
UMC Petroleum Corp. (Ensource)	SESE 19 30N 15E	Rocky Boy 19-16	2	22565	Tiger Ridge	Eagle	10/28/96	1500	0	935
UMC Petroleum Corp. (Ensource)	SESW 13 30N 15E	Boyce 13-14	2	22566	Tiger Ridge	Eagle	10/21/96	1990	0	166
UMC Petroleum Corp. (Ensource)	NWSE 13 30N 15E	Boyce 13-10	3	22567	Tiger Ridge		10/02/96	2000	0	0
UMC Petroleum Corp. (Ensource)	NWSE 27 32N 14E	Richardson 27-10	2	22568	Tiger Ridge	Eagle	09/20/96	1200	0	500
UMC Petroleum Corp. (Ensource)	SWNE 34 30N 15E	Boyce 34-7	3	22569	Tiger Ridge		09/27/96	2100	0	0
UMC Petroleum Corp. (Ensource)	SENE 35 30N 15E	Nystrom 35-6	2	22570	Tiger Ridge	Eagle	09/27/96	2100	0	400
UMC Petroleum Corp. (Ensource)	NENW 35 30N 15E	Boyce 35-3	3	22571	Tiger Ridge		10/20/96	2053	0	0
UMC Petroleum Corp. (Ensource)	LT 6 34 32N 14E	Daniel 34-13	2	22572	Tiger Ridge	Eagle	09/18/96	1200	0	1232
051 Liberty										
Ballard and Associates, Inc.	SWNE 6 34N 4E	Frederickson 32-6	6	21695	Wildcat		11/01/96	2735	0	0
Branch, Colby & Jill	SENE 18 36N 4E	Thompson 8-18	3	21694	Middle Butte		06/04/96	2253	0	0
Montana Power Company	SWNW 13 36N 6E	Colby 5-13	2	21696	Keith, East	Bow Island	10/16/96	1879	0	1400
Montana Power Company	NWNE 24 36N 6E	Kohei 2-24	2	21697	Keith, East	Bow Island	10/14/96	1925	0	975
065 Musselshell										
Ballard and Associates, Inc.	SESE 34 9N 24E	State 44-34	1	21817	Mason Lake	Cat Creek 1	08/03/96	4295	9	0
Beartooth Oil & Gas Company	NESE 31 1N 25E	Burris 1	6	21831	Wildcat		01/17/96	3150	0	0
Beartooth Oil & Gas Company	SENE 18 11N 25E	Harbour 1	6	21832	Wildcat		01/24/96	2130	0	0
Bluesky Oil & Gas, Inc.	NESW 22 11N 25E	Federal 11-22	6	21829	Wildcat		01/09/96	3200	0	0
D L Incorporated	SWSW 51 1N 24E	Federal 5-13	3	21824	Devils Basin		11/05/95	1124	0	0
Great Plains Resources Inc.	NWSE 10 11N 29E	Henry 1	6	21828	Wildcat		08/02/96	3750	0	0
Macum Energy Inc.	NWSE 12 11N 30E	DeJaegher 33-12	6	21833	Wildcat		03/11/96	5045	0	0
Summit Resources, Inc.	NESE 24 11N 26E	Jim Coulee 9-24	6	21830	Wildcat		12/31/95	3920	0	0
071 Phillips										
Samedan Oil Corporation	LT 4 3 36N 30E	Federal 0360-3	2	22306	Loring	Bowdoin	10/11/96	1864	0	61
Samedan Oil Corporation	NWNW10 36N 30E	Federal 1060-4	2	22307	Loring	Bdn/Gm/Phil	10/02/96	1807	0	50
Samedan Oil Corporation	NWSW32 37N 30E	Federal 3270-3	2	22308	Loring	Bdn/Gm/Phil	10/03/96	1795	0	59
Samedan Oil Corporation	NWSW23 7N 30E	Fee 2670-4	2	22310	Loring	Bdn/Gm/Phil	10/09/96	1968	0	61
Samedan Oil Corporation	SESW 9 33N 32E	Federal 0932-3	2	22301	Whitewater	Gm/Phil	10/06/96	1262	0	42
Samedan Oil Corporation	SESE 15 33N 32E	Federal 1532-3	2	22302	Whitewater	Gm/Phil	10/06/96	1206	0	54
Samedan Oil Corporation	NWNW22 33N 32E	Federal 2232-1	2	22303	Whitewater	Gm/Phil	10/06/96	1173	0	75
Samedan Oil Corporation	NENE 7 34N 32E	Federal 0742-3	2	22304	Whitewater	Bdn/Gm/Phil	10/13/96	1496	0	42
Samedan Oil Corporation	SESE 28 35N 31E	Federal 2851-2	2	22305	Whitewater	Bdn/Gm/Phil	10/07/96	1526	0	15
Samedan Oil Corporation	SENE 29 33N 32E	Fee 2932-1	2	22309	Whitewater	Gm/Phil	10/06/96	1355	0	83
Williston Basin Interstate	SESE 1 31N 32E	Federal 984	2	22274	Bowdoin & Area	Phillips	08/26/96	1200	0	960
Williston Basin Interstate	SWNW33 1N 33E	Federal 995	2	22282	Bowdoin & Area	Phillips	07/08/96	1250	0	310
Williston Basin Interstate	NWNE 32 33N 32E	Federal 997	2	22287	Bowdoin & Area	Phillips	07/08/96	1250	0	589
Williston Basin Interstate	SESE 63 1N 33E	Federal 985	2	22296	Bowdoin & Area	Phillips	07/03/96	1220	0	614
Williston Basin Interstate	NWNE 11 32N 32E	Federal 999	2	22297	Bowdoin & Area	Phillips	07/08/96	1311	0	1330
083 Richland										
American Exploration Company	SENE 35 24N 55E	Cooper 2-35	6	21831	Wildcat		04/04/96	12310	0	0
Armstrong Operating, Inc.	SESW 15 26N 54E	Miller 15-1	6	21836	Wildcat		08/15/96	9640	0	0
Burlington Resources Oil & Gas	LT 2 1 24N 59E	McNight 31-1HD	4**	21824	Fairview, West	Ratcliffe	02/02/96	9493	18	4
Burlington Resources Oil & Gas	SWNW 7 24N 60E	Sundheim 12-7HD	4**	21826	Fairview, West	Ratcliffe	12/28/95	9575	37	0
Chesapeake Operating, Inc.	SESW 5 25N 57E	Vitt 1-5	4**	21838	Blue Hill	Red River	10/10/96	12840	180	0
Choctaw II Oil & Gas, Ltd.	NWSW24 25N 57E	Tveit 24-13	1	21837	Sioux Pass	Red River	09/20/96	12879	314	0
Hallwood Petroleum, Inc.	NWSW 9 24N 57E	Jensen 2-9	1	21829	Lonetree Creek	Red R/Interlake	08/21/96	12520	100	100
Hallwood Petroleum, Inc.	SWNW12 24N 57E	Kilen 1	6	21830	Wildcat		03/29/96	12645	0	0
Kelly Oil & Gas, Inc.	NENW 33 24N 57E	Albin 2-33	4**	21823	Mustang (Bakken)	Bakken	04/20/96	10830	70	0
Luff Exploration Company	NENW 17 26N 58E	Federal 1-17R	1	21842	Sioux Pass, North	Red River	08/26/96	12660	133	290
Ritchie Exploration, Inc.	NENW 25 22N 55E	Lion 21-25	4**	21839	Lambert, South	Red River	09/09/96	11920	417	198
Summit Resources, Inc.	NESE 24 24N 58E	Sundheim 9-24	6	21833	Wildcat		12/22/96	12700	0	0
Upton Resources USA Inc.	NESE 12 22N 56E	Dore 1	6	21835	Wildcat		07/13/96	12409	0	0
085 Roosevelt										
BTA Oil Producers, Partnership	SWSE 31 29N 58E	JV-P #1	1	21605	Bainville, North	Red River	07/02/96	12750	360	318
Energy, Ltd.	SENE 10 30N 51E	Assiniboine 1-10G	6	21610	Wildcat		11/08/96	2076	0	0
Energy, Ltd.	NENW 17 32N 49E	Sioux 1-17G	6	21611	Wildcat		11/23/96	1844	0	0
Energy, Ltd.	NESW 34 32N 49E	Winn Estate 1-34G	6	21612	Wildcat		12/07/96	1799	0	0
Energy, Ltd.	SESE 22 31N 49E	Murdock Estate 1-22G	6	21614	Wildcat		11/11/96	1948	0	0
Intermountain Operating, Inc.	CSW 10 30N 57E	Wheeler 1-10	4**	21609	Shotgun Creek	Ratcliffe	11/02/96	8750	86	50
Intermountain Operating, Inc.	NWSE 16 30N 57E	State of Montana 2	4	21606	Wildcat	Ratcliffe	09/02/96	8925	221	30
JN Exploration & Production	SESW 3 28N 58E	Crusch 24-3	1	21608	Bainville, North	Red River	10/25/96	12703	489	359
JN Exploration & Production	NWN 17 27N 58E	Browning 11-17	4**	21589	Oxbow	Madison	05/20/96	10480	75	10
NuGas Resources (US), Inc.	SESE 18 29N 49E	Zimmerman 1-18G	8	21600	Wildcat	Gm/Phil	11/05/95	3170	0	0
NuGas Resources (US), Inc.	SESE 13 31N 47E	Juel 1-13G	8	21601	Wildcat	Gm/Phil	11/05/95	3485	0	0
NuGas Resources (US), Inc.	NESW 31 32N 46E	Treasure State 1-31G	8	21602	Wildcat	Gm/Phil	11/05/95	3200	0	0
NuGas Resources (US), Inc.	SESW 32 31N 52E	Seilsatd 1-32G	6	21616	Wildcat		11/05/96	2600	0	0
Olympic Expl. & Prod. Co.	NWNE 11 30N 58E	Big Sky #1 Re-Entry	6	21549	Wildcat		12/24/94	10303	0	0
Panterra Petroleum MT GENL PRT	SESW 10 28N 58E	Granley 14-10	1	21603	Bainville, North	Winnipegosis	08/23/96	12600	246	197
Panterra Petroleum MT GENL PRT	NWNW15 28N 58E	Granley State 4-15X	1	21604	Bainville, North	Winnipegosis	06/26/96	11460	316	233
Petrana Exploration, LLC	SWNE 16 29N 47E	Balsam-Tovas 1-16	6	21321	Wildcat		11/19/95	1728	0	0
087 Rosebud										
Florentine Exploration & Prod.	SENE 31 12N 33E	State 31-6	6	21643	Wildcat		07/27/96	5622	0	0
Great Plains Resources Inc.	NWSE 36 12N 32E	State 10-36	6	21644	Wildcat		09/16/96	5597	0	0
091 Sheridan										
Anderman Operating Co., Inc.	SESW 17 32N 59E	Johasen 24-17	1	21698	Dwyer	Ratcliffe	06/21/96	11960	30	0
Basin Exploration, Inc.	SENE 36 35N 55E	Valma Aasheim 22-36	4**	21689	Ator Creek	Red River	01/17/96	10730	102	0
Basin Exploration, Inc.	SWNW53 6N 55E	Bearcat 12-5	4**	21691	Wildcat		12/13/95	10475	23	0
Outlook Petroleum Corp.	SWSE 24 36N 53E	Lund 1	6	21700	Wildcat		08/07/96	10227	0	0
Panterra Petroleum MT GENL PRT	SENE 11 33N 58E	Melby 8-11	1	21701	Brush Lake	Red River	09/18/96	11532	188	132
Panterra Petroleum MT GENL PRT	NWSW12 33N 58E	Sorensen 12-12	1	21702	Brush Lake	Red River	11/05/96	11510	219	0
Summit Resources, Inc.	NWSW35 34N 57E	Nielsen 35-2	6	21692	Wildcat		11/07/95	11525	0	0

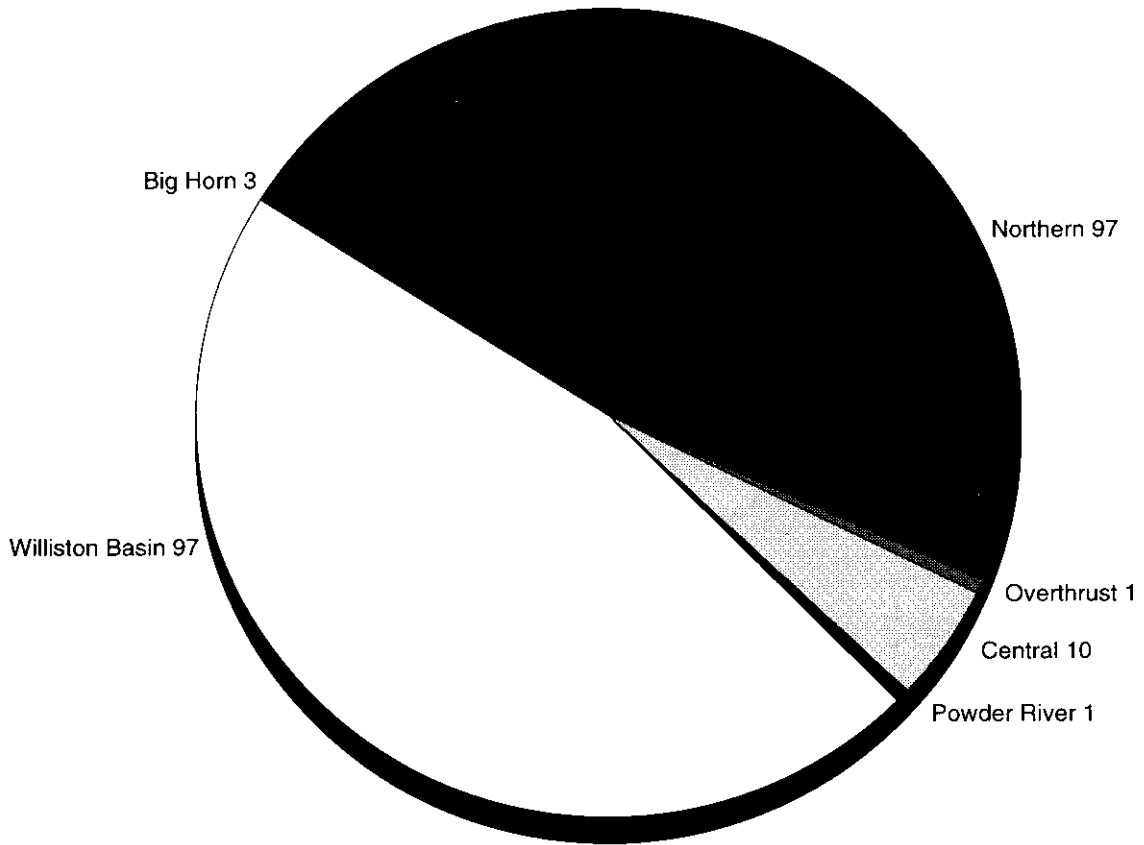
1996 WELL COMPLETIONS (CONTINUED)

OPERATOR	LOCATION	WELL NAME	STATUS CODE	API#	FIELD	FORMATION	COMPLETION DATE	TOTAL DEPTH	IP OIL	IP GAS
Texaco Exploration And Prod.	NWNW 36 33N 55E	Neiser Creek 1	1	21695	Neiser Creek	Red River	04/21/96	11000	259	275
Texaco Exploration And Prod.	SESE 30 33N 56E	Neison 1-H	6	21707	Wildcat		11/20/96	11583	0	0
Upton Resources USA Inc.	NWNE 5 31N 59E	Federal 2-5	6	21694	Wildcat		01/23/96	12130	0	0
Wascana Oil & Gas, Inc.	SENE 15 37N 57E	Helegaard 1H	3	21703	Flat Lake	Ratcliffe	10/06/96	9353	0	0
Wascana Oil & Gas, Inc.	NESE 43 7N 58E	EGgen 1H	1	21704	Flat Lake	Ratcliffe	08/17/96	10187	28	0
Wascana Oil & Gas, Inc.	SESW 7 37N 58E	Haugen 1H	1	21705	Flat Lake	Ratcliffe	09/08/96	9240	30	0
Wascana Oil & Gas, Inc.	SWSW 10 37N 57E	Heppner 1	1	21708	Flat Lake	Nisku	11/08/96	8450	112	0
Wascana Oil & Gas, Inc.	SWSW 10 37N 57E	Heppner 1H	1	21709	Flat Lake	Ratcliffe	11/22/96	9336	65	420
097 Sweet Grass										
Equitable Resources - Balcron	NESW 6 5N 13E	American Fork 23-6	6	21054	Wildcat		06/26/96	12089	0	0
101 Toole										
Ballard and Associates, Inc.	NWSE 11 33N 2E	State 33-11	6	23764	Wildcat		11/05/96	253	0	0
Basin Exploration, Inc.	SESE 19 34N 1W	Rogers 4 ReEntry	3	23547	Kevin Sunburst			1375	0	0
Branch Oil and Gas	CSE 12 33N 3W	Byrne 12-16	2	23754	Kevin Southwest	Dakota	05/30/96	1023	0	29
Brown, J. Burns Operating Co.	NENW 21 32N 1W	State 21-32-1C	2	23723	Shelby, East	Bow Island	12/01/96	821	0	116
KCS Resources, Inc.	LT 1 19 33N 2E	Stewart 11-19	3	23782	Devon		12/21/96	1203	0	0
KCS Resources, Inc.	LT 4 5 32N 2E	Bussell Farms 11-5	3	23783	Devon		12/19/96	1203	0	0
KCS Resources, Inc.	NWNW 27 32N 2E	McCarter 11-27	3	23784	Devon		12/13/96	1269	0	0
KCS Resources, Inc.	SESE 25 36N 2W	Midland Realty 25-5	1	23758	Kevin Sunburst	Sunburst	10/08/96	1742	23	0
KCS Resources, Inc.	NESE 25 36N 2W	Midland Realty 25-4	1	23759	Kevin Sunburst	Sunburst	08/30/96	3367	7	0
KCS Resources, Inc.	SESE 25 36N 2W	Midland Realty 25-6	1	23760	Kevin Sunburst	Sunburst	10/10/96	1745	43	0
KCS Resources, Inc.	SWNW 36 36N 2W	State A 14	1	23761	Kevin Sunburst	Sunburst	09/13/96	1658	15	0
KCS Resources, Inc.	SESW 25 36N 2W	Midland Realty 6	1	23762	Kevin Sunburst	Sunburst	09/08/96	1720	145	0
KCS Resources, Inc.	NENW 35 36N 2W	Yealy-Shaw 24	1	23763	Kevin Sunburst	Sunburst	09/20/96	1668	60	68
KCS Resources, Inc.	NESE 35 36N 2W	Yealy-Shaw 27	1	23768	Kevin Sunburst	Sunburst	10/16/96	1675	6	0
KCS Resources, Inc.	SESW 35 36N 2W	Yealy-Shaw 26	1	23769	Kevin Sunburst	Sunburst	10/07/96	1666	10	0
KCS Resources, Inc.	NWSE 25 36N 2W	Midland 7	1	23770	Kevin Sunburst	Sunburst	09/28/96	1727	21	0
KCS Resources, Inc.	NWSW 25 36N 2W	Alladin-Heskings 6	1	23771	Kevin Sunburst	Sunburst	10/14/96	1640	13	0
KCS Resources, Inc.	NESE 26 36N 2W	Shaw 14	1	23772	Kevin Sunburst	Sunburst	10/02/96	1610	16	0
KCS Resources, Inc.	NENW 35 36N 2W	Yealy-Shaw 25	1	23774	Kevin Sunburst	Sunburst	10/03/96	1669	231	0
KCS Resources, Inc.	NWSE 25 36N 2W	Midland 8	1	23775	Kevin Sunburst	Sunburst	10/20/96	1727	3	0
KCS Resources, Inc.	NWSE 25 36N 2W	Midland 9	1	23776	Kevin Sunburst	Sunburst	10/24/96	1787	10	0
KCS Resources, Inc.	SWNE 25 36N 2W	Lerum 1	1	23778	Kevin Sunburst	Sunburst	11/04/96	1640	0	0
KCS Resources, Inc.	E2SW 34 32N 2E	McCarter 23-34	6	23780	Wildcat		12/11/96	1305	0	0
Kee Sun Corporation	S2NW 24 34N 1W	Restana 4-24	2	23744	Kevin Sunburst	Sunburst	11/28/95	1406	0	178
Kee Sun Corporation	SENW 24 34N 3W	Burrows 1	6	23753	Kevin Sunburst		05/06/96	1563	0	0
Kee Sun Corporation	S2NW 13 33N 2W	Benjamin KeeSun 5-13	2	23722	Prairie Dell	Bow Island	03/09/96	1400	0	80
Legend Resources, Inc.	NWNW 27 36N 2W	Stemmer 2-4-27	3	23743	Kevin Sunburst		07/02/96	1832	0	0
Montana Power Company	NWNE 16 37N 4W	State 7-16A	7	23755	Cut Bank		07/12/96	2680	0	0
Montana Power Company	NENE 20 37N 4W	Cobb 1-20	7	23756	Cut Bank		07/16/96	2616	0	0
Natural Gas Processing Co.	NWNW 12 32N 2W	J Hasquet #1	2	23721	Old Shelby	Sunburst	12/26/95	1508	0	70
Northland Royalty Operating Co	N2SW 14 33N 2W	Flesch B 11-14	2	23757	Prairie Dell	Bow Island	07/10/96	449	0	110
Ranck Oil Company, Inc.	LT 4 5 33N 3E	Kanning 4-5	6	23745	Wildcat		12/16/95	1893	0	0
Somont Oil Company, Inc.	SESW 29 35N 1W	Anderson 5-1X	1	23620	Kevin Sunburst	Madison	08/14/96	1556	8	0
Somont Oil Company, Inc.	SWNW 26 35N 2W	Abell 1-0	1	23713	Kevin Sunburst	Madison	01/29/95	1503	1	0
Somont Oil Company, Inc.	SENW 27 35N 2W	Smoke 1-0	1	23714	Kevin Sunburst	Madison	01/31/95	1533	1	0
Somont Oil Company, Inc.	NESE 28 35N 2W	Moe 1-0	1	23715	Kevin Sunburst	Madison	01/27/95	1555	1	0
Spectrum Energy, Inc.	NWSE 1 33N 1W	Collier 4-1	2	23746	Old Shelby	Swift	01/08/96	1464	0	305
Spectrum Energy, Inc.	NESE 2 33N 1W	Collier 3-2	2	23747	Old Shelby	Swift	12/29/95	1376	0	325
Spectrum Energy, Inc.	SWNW 1 33N 1W	Collier 5-1	2	23749	Old Shelby	Swift	01/10/96	1397	0	91
Spectrum Energy, Inc.	NESE 2 33N 1W	Collier 4-2	2	23750	Old Shelby	Swift	07/25/96	1334	0	135
Spectrum Energy, Inc.	N2NE 2 33N 1W	Collier 5-2	3	23751	Old Shelby		01/12/96	1333	0	0
Spectrum Energy, Inc.	SWNE 1 33N 1W	Collier 6-1	3	23752	Old Shelby		02/07/96	1445	0	0
Spectrum Energy, Inc.	NWNW 16 33N 3E	State 16-4	6	23748	Wildcat		02/08/96	798	0	0
105 Valley										
Armstrong Operating, Inc.	NWNW 6 33N 43E	Pankratz 6-1	6	21427	Wildcat		01/16/96	6755	0	0
Armstrong Operating, Inc.	SWSW 13 34N 42E	Ramsbacher 13-1	6	21428	Wildcat		04/20/96	6000	0	0
109 Wibaux										
Burlington Resources Oil & Gas	SESE 19 18N 59E	Beehive 44-19	4**	21079	Blue Mountain	Red River	08/23/96	11875	112	0
Burlington Resources Oil & Gas	NWNW 13 17N 58E	Bumble Bee 11-13	6	21080	Wildcat		08/14/96	7700	0	0
Burlington Resources Oil & Gas	NESE 1 17N 58E	Canyon 23-1	6	21081	Wildcat		09/15/96	11770	0	0
111 Yellowstone										
Bailard and Associates, Inc.	SWSW 16 4N 26E	State 14-16	6	21224	Wildcat		08/29/96	7401	0	0

Status Codes:

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

Wells Completed in 1996
(209 Wells - by Region)



1996 SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1996		No. of Injection Wells	Source of Injection Media and Remarks
						Cumulative Injections MBBLS or MCMCF	Avg. Daily Injection Rate BBLs or MCF		
Ash Creek Crow Tribal	Shannon	Mobil	Waterflood	Peripheral	10/64	256	0	-	Idle
Ash Creek Sand Unit MT	Shannon	DNR Oil & Gas Inc.	Waterflood	Peripheral	10/64	1364	0	-	Idle
Bears Den	Swift	FX Drilling Co., Inc.	Waterflood	Random	11/90	1342	515	4	WSW/Produced
Bell Creek Consolidated	Muddy	Richardson Operating	Waterflood	5 Spot	*4/70	528969	3445	30	Produced (Consolidated 1/92)
Bell Creek, South	Muddy	Richardson Operating	Waterflood	Peripheral	2/91	1859	2619	4	Produced
Big Wall BWLTSU	Lower Tyler	Citation Oil & Gas	Waterflood	Random	10/84	33222	5894	3	Produced
Big Wall BWUTSU	Upper Tyler	Citation Oil & Gas	Waterflood	Random	8/66	45073	3051	1	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	4409*	508	4	Madison
Border, New	Cut Bank	Gypsy Highview System	Waterflood	Random	1/82	-	0	-	Idle
Border, Old	Cut Bank	Gypsy Highview System	Waterflood	Random	6/73	1927*	89	1	Cut Bank
Bread Creek	Tyler	True Oil Co.	Waterflood	Random	11/92	1862	2182	3	WSW and Produced
Cabin Creek	Siluro-Ord.	Shell Western E&P	Waterflood	Semi-Perip	6/59	379117*	23125	26	Produced
Cat Creek East Dome	Ellis Sand	Robert Hoss	Waterflood	Semi-Perip	7/70	1676	107	2	Third Cat Creek
Cat Creek Mosby Dome	Amsden	Cenex	Waterflood	Random	6/71	313	0	-	Idle
Cat Creek Mosby Dome	Swift	Carrell Oil Company	Waterflood	Random	7/67	7030*	232	2	Third Cat Creek
Cat Creek Unit 1	1st Cat	Carrell Oil Company	Waterflood	Semi-Perip	10/62	9006	524	1	Third Cat Creek
Cat Creek Unit 1	2nd Cat	Carrell Oil Company	Waterflood	Semi-Perip	10/62	13915	1137	2	Third Cat Creek
Cat Creek Unit 2	1st Cat	Carrell Oil Company	Waterflood	Semi-Perip	12/59	10106	130	3	Third Cat Creek
Cat Creek Unit 2	2nd Cat	Carrell Oil Company	Waterflood	Semi-Perip	12/59	14911	813	2	Third Cat Creek
Cut Bank 2 Medicine	Cut Bank	Mont Mill Operating	Waterflood	Random	12/67	58499*	0	-	Idle
Cut Bank Airport Unit	Cut Bank	Mercury Exploration	Waterflood		6/93	651	484	1	Madison
Cut Bank Dahlquist	Cut Bank	Bluejay Resources	Waterflood	Random	11/79	671	0	-	Idle
Cut Bank Lander A	Lander Sand	Quest Petroleum Corp.	Waterflood	Random	4/65	2115	0	-	Idle
Cut Bank Marina	Cut Bank	P&M Petroleum	Waterflood	5 Spot	6/72	2075	0	-	Idle
Cut Bank NCCBSU	Cut Bank	Gypsy Highview	Waterflood	5 Spot	5/78	5757	0	-	Idle
Cut Bank NECBSU	Cut Bank	J and G Operating	Waterflood	5 Spot	6/63	13409	0	-	Idle
Cut Bank NWCBSU	Cut Bank	Quest Petroleum Corp.	Waterflood	5 Spot	1/62	19794*	0	-	Idle
Cut Bank Rieckhoff	Cut Bank	FX Drilling Co., Inc.	Waterflood	Random	1983	24882	802	6	Madison/Recycle
Cut Bank SCCBSU	Cut Bank	Mercury Exploration	Waterflood	5 Spot	5/63	72920	2048	28	Madison
Cut Bank SWCBSU	Cut Bank	FX Drilling Co., Inc.	Waterflood	5 Spot	9/62	150283	6782	33	Madison/Recycle
Cut Bank Tesoro	Cut Bank	City Oil Co.	Waterflood	5 Spot	9/71	6759	0	-	Madison/Recycle
Cut Bank Tweedy	Cut Bank	Gypsy Highview	Waterflood	5 Spot	6/72	987*	7	1	Cut Bank
Darling	Cut Bank	Buttes Resources	Waterflood	Random	2/67	-	0	-	Idle
Darling North Unit	Moulton	Buttes Resources	Waterflood	Random	2/68	2472	0	-	Idle
Darling South Unit	Moulton	Buttes Resources	Waterflood	Random	2/67	7548	0	-	Idle
Dean Dome	Greybull	Eastern American	Steam Inj	Cyclic	8/81	29	0	-	Idle
Elk Basin	Frontier	Amoco	Waterflood	Crestal	12/72	6039	0	-	Idle
Elk Basin	Madison	Amoco	Waterflood	Semi-Perip	8/61	136709*	9462	13	Produced
Elk Basin NW	Madison	Amoco	Waterflood	Semi-Perip	12/88	2922	772	1	Produced (5 months)
Elk Basin NW	Tensleep	Amoco	Waterflood	Semi-Perip	1/67	5918	0	-	Idle
Elk Basin Unit	Tensleep	Amoco	Waterflood	Semi-Perip	4/67	2431	0	-	Idle
Fairview	Red River	Mepna, Inc.	Pressure M	Random	5/70	4186	0	-	Idle
Flat Coulee	Swift	Breck Operating Corp	Waterflood	Peripheral	2/72	20135	2751	12	Eagle & Produced
Flat Lake Unit	Ratcliffe	Wascana Oil & Gas Inc	Pressure M	Random	6/71	49836	3838	14	Produced
Flat Lake West	Ratcliffe	Wascana Oil & Gas Inc	Pressure M	Random	11/74	9439	891	3	Produced
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	526846*	0	-	Montana project P&A'd
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	23131*	0	-	Idle
Fred & George Creek	Sunburst "A"	William M. Fulton	Waterflood	Random	7/76	63800	3923	2	Madison/Eagle
Fred & George Creek	Sunburst	Fulton Fuel Company	Waterflood		1/96	109291	299	1	Eagle & Sunburst A
Fred & George Creek	Sunburst B	Fulton Fuel Company	Waterflood		1/96	525271	1435	2	Eagle and Sunburst A
Gas City	Red River	Home-Stake Royalty Co	Waterflood	Semi-Perip	10/69	18395	855	3	Mission Canyon
Goose Lake	Ratcliffe	Forcenergy Inc.	Waterflood	Semi-Perip	1/73	30498*	2513	2	Produced
Gumbo Ridge	Tyler B	Cline Production Co.	Waterflood	Semi-Perip	6/80	3224	198	1	Produced
Highview	Madison	Mountain States Res.	Waterflood	Random	12/91	169	105	1	Madison (Converted CO2)
Ivanhoe	Tyler	Tomahawk Oil Co.	Pressure M	Random	5/64	662	364	1	Produced
Jim Coulee	Tyler	Beartooth Oil & Gas	Waterflood	Semi-Perip	7/72	28807*	2430	2	Produced Cat Creek
Keg Coulee NW Unit	Tyler	Charoil Company	Waterflood	Semi-Perip	3/64	6469	68	1	Madison
Keg Coulee Tyler Unit	Tyler	Cline Production Co.	Waterflood	Semi-Perip	12/69	3595*	63	2	Produced
Keg Coulee Unit	Tyler	Central Resources Inc.	Waterflood	Semi-Perip	8/66	7144	16	1	Produced
Kelley	Tyler B	Grand Resources, Ltd.	Waterflood	Random	7/69	4981*	215	1	Produced (9 mos)
Kevin Homestake SU	Sunburst	KCS Resources Inc.	Waterflood	Random	8/64	9433*	872	7	WSW & Produced
Kevin Sunburst Ferdig	Swift	Somont Oil Company	Waterflood		8/92	75	89	2	Produced
Kevin Sunburst SU	Sunburst	Basin Operating Co.	Waterflood	Random	8/64	13108	0	-	Abandoned 8/96
Kincheloe Ranch	Tyler A	Tyler Rockies Explor.	Waterflood	Random	11/89	2204	724	1	Third Cat Creek

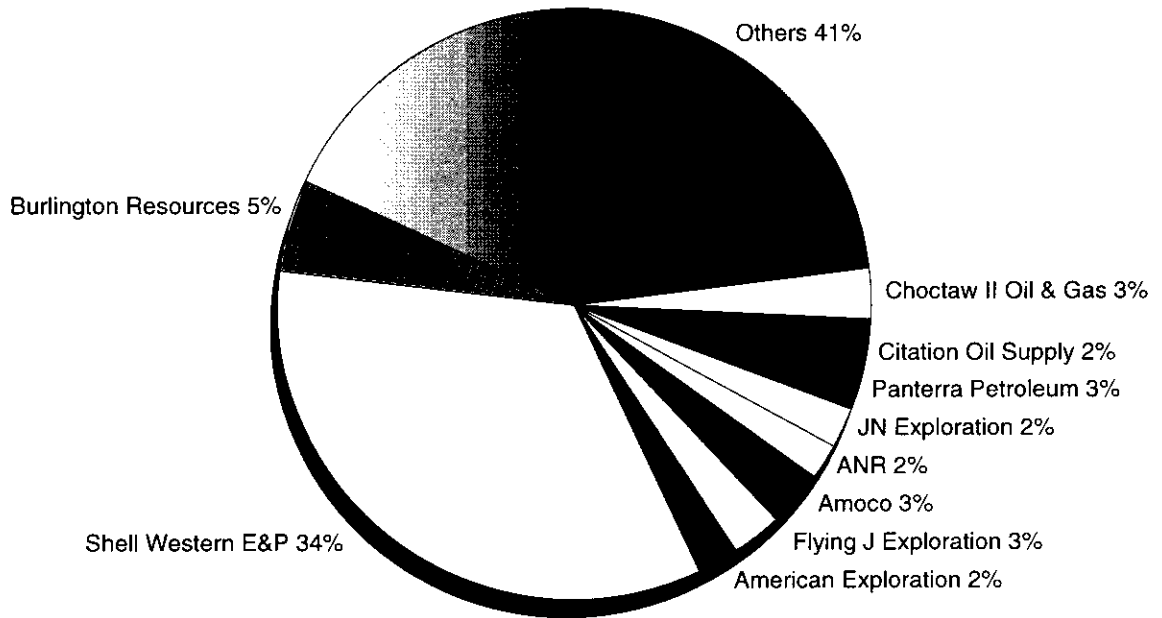
1996 SUMMARY OF SECONDARY RECOVERY PROJECTS (CONTINUED)

Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1996	Avg. Daily	No. of Injection Wells	Source of Injection Media and Remarks
						Cumulative Injections MMBLS or MCF	Injection Rate BBLs or MCF		
Kincheloe Ranch, West	Tyler A	Tyler Rockies Explor.	Waterflood	Random	02/92	187	103	1	Third Cat Creek
Laird Creek	Swift	KCS Resources, Inc.	Waterflood	Semi-Perip	2/77	807	0	-	Idle
Little Beaver	Red River	Shell Western E&P	Waterflood	Semi-Perip	8/66	61545*	6942	8	Produced
Little Beaver East	Red River	Shell Western E&P	Waterflood	Semi-Perip	4/65	27093*	2106	4	Produced
Little Wall - Hamilton	Tyler	Beartooth Oil & Gas	Waterflood	Random	07/92	37	0	-	Project Abandoned
Little Wall - Weisner	Tyler	Beartooth Oil & Gas	Waterflood	Random	01/92	402	218	1	Produced
Little Wall Creek	Tyler	Citation Oil & Gas	Waterflood	Random	1984	1158	218	2	Produced
Little Wall S Gunderson	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/87	1809	644	1	Produced
Little Wall South Unit	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/83	18302	2578	3	Produced
Lookout Butte Coral Crk	Red River	Shell Western E&P	Waterflood	Semi-Perip	4/67	69904*	5946	12	Minnelusa
Lookout Butte East	Red River B	Meridian Oil Inc.	Waterflood	Random	7/88	794	790	7	Produced
Mason Lake	1st Cat Creek	Nielco, Inc.	Waterflood	Pilot	11/88	472	0	-	Idle
Meistone North	Tyler	True Oil Co.	Waterflood	Unknown	1/83	9073	1846	4	3rd Cat Creek & Produced
Monarch	Siluro/Ord	Shell Western E&P	Waterflood	Unknown	12/73	7721	810	1	Produced
Pennel	Siluro/Ord	Shell Western E&P	Waterflood	Random	8/69	298865*	30407	80	Dakota & Produced
Pine North C & D	Red River	Shell Western E&P	Waterflood	Semi-Perip	3/68	26617*	1129	2	Lodgepole
Pine South A	Siluro/Ord	Shell Western E&P	Waterflood	Semi-Perip	3/59	214372	17676	22	Fox Hills/ Produced
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	1184	0	-	Idle
Rabbit Hills	Sawtooth	Burlington Resources	Polymer/WF	Random	1/96	90	246	1	Produced
Ragged Point SW	Tyler	Grand Resources, Ltd.	Waterflood	Random	10/82	12513	3079	4	Produced
Ragged Point Tyler A	Tyler	Central Resources Inc.	Waterflood	Semi-Perip	12/66	12031	89	1	Produced (4 months)
Rattler Butte	Tyler	Cline Production Co.	Waterflood	Unknown	5/93	108	35	1	Produced & WSW (3 months)
Raymond	Nisku	Costilla Petroleum	CO2 Inj.	Unknown	8/83	2401	121	1	Produced
Reagan Dome	Madison	No.American Resources	Waterflood	Random	7/73	9708	1295	4	Produced
Red Creek	Cut Bank	Summit Resources, Inc	Waterflood	5 Spot	6/65	26268*	10390	3	Produced
Ridgelawn RDU	Duperow	Cowry Enterprises Ltd	Secondary	Unknown	7/90	3874	414	2	Dakota
Roscoe Dome	Lakota	E. American Energy	Steam Inj.	Unknown	5/82	5	0	-	Idle
Rosebud	Tyler	Cline Production Co.	ER	Random	09/91	634	148	1	WSW & Produced
Shepherd	Tyler	Summit Resources	Secondary	Random	11/84	95	0	-	Idle
Stensvad	Tyler	Tomahawk Oil Co.	Waterflood	Semi-Perip	12/63	29766*	609	2	Produced
Sumatra Central	Tyler	Ballard & Associates	Waterflood	Semi-Perip	9/69	206883	15065	11	Produced
Sumatra Grebe	Tyler	Tomahawk Oil Co.	Waterflood	Random	6/75	1319	195	1	Produced
Sumatra NE	Tyler	Tomahawk Oil Co. Inc.	Waterflood	Semi-Perip	9/69	13275*	226	1	Produced
Sumatra Sawyer	Tyler	Central Resources Inc.	Waterflood	Semi-Perip	6/80	1507	148	1	Madison
Sumatra SE	Tyler	Central Resources Inc.	Waterflood	Semi-Perip	12/69	35256	2748	3	Produced
Sumatra W.Kincheloe	Tyler	Great Plains Oper.	Waterflood	Semi-Perip	5/82	28800	5246	7	Madison
Sumatra West	Tyler	Cline Production Co.	Waterflood	Semi-Perip	10/68	68994	4693	5	Produced
Tippy Buttes	Tyler	True Oil	Waterflood	Random	5/82	262	0	-	Abandoned
Utopia	Swift	True Oil Co.	Waterflood	Random	03/92	606	831	7	Sunburst WSW
Winnett Junction	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/77	10277	1169	2	Produced
Wolf Springs South	Amsden	Beartooth Oil & Gas	Waterflood	Unknown	1/93	269	30	1	WSW and Produced

* Cumulative figures adjusted by operator

Top Producing Oil Companies - 1996

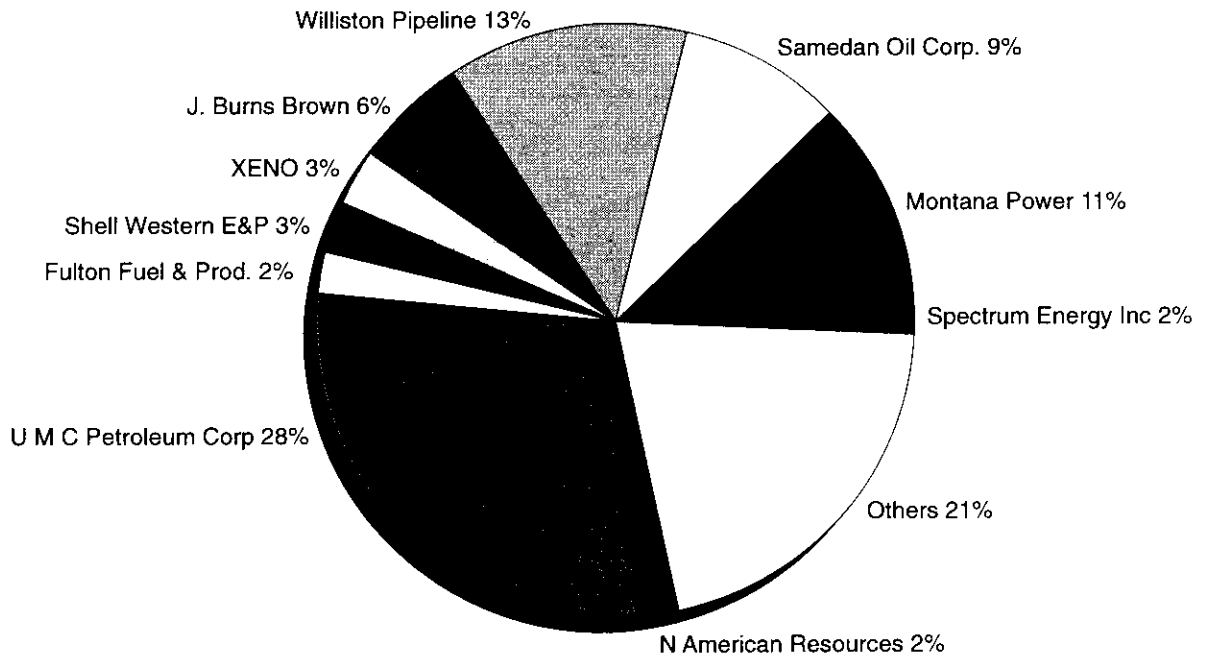
16,151,607 Barrels



223 Active Oil Producers - 1996

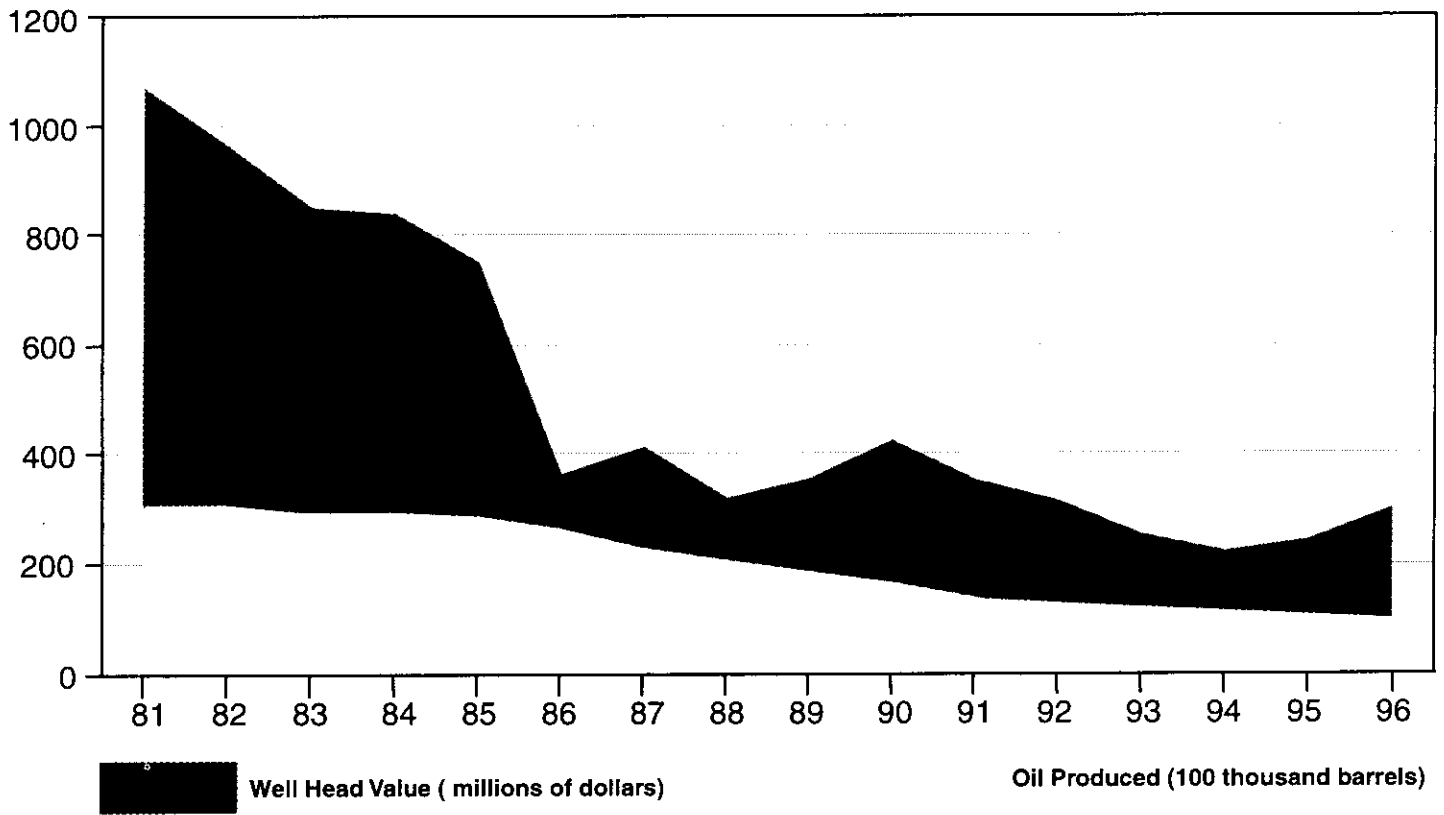
Top Producing Gas Companies - 1996

51,581,533 Mcf

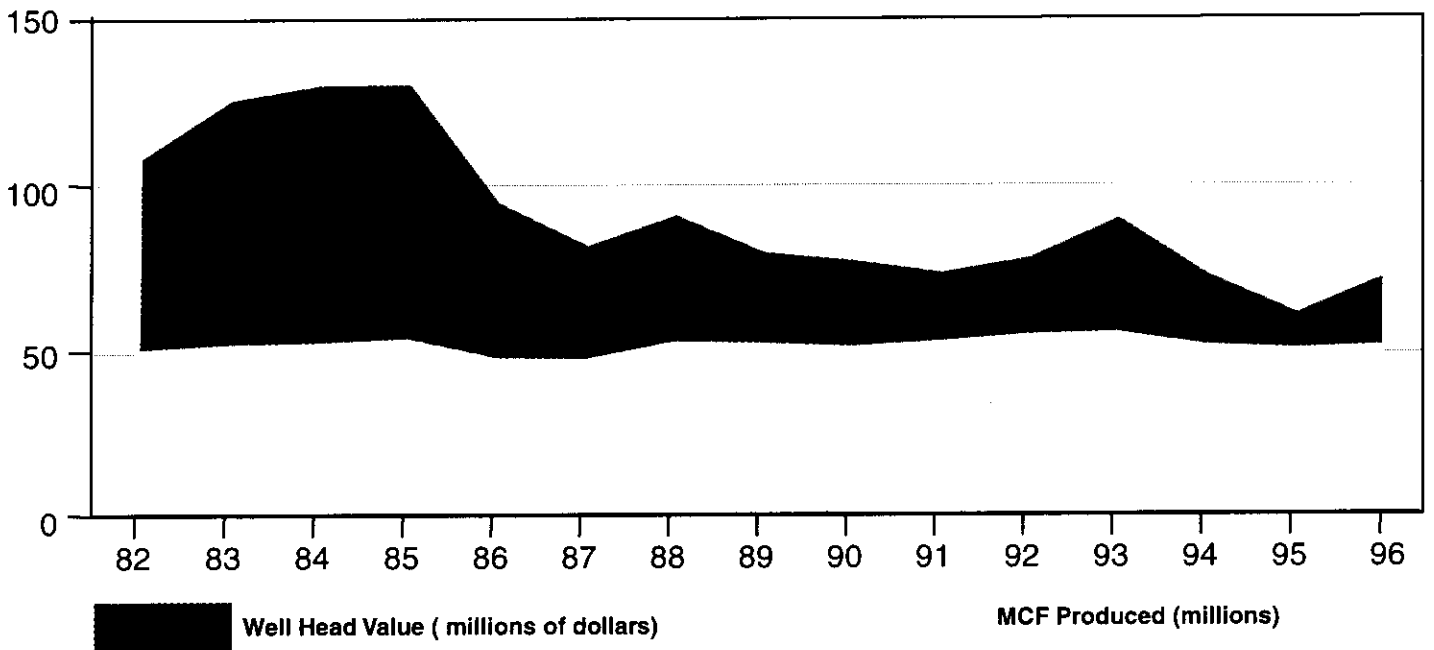


167 Active Gas Producers - 1996

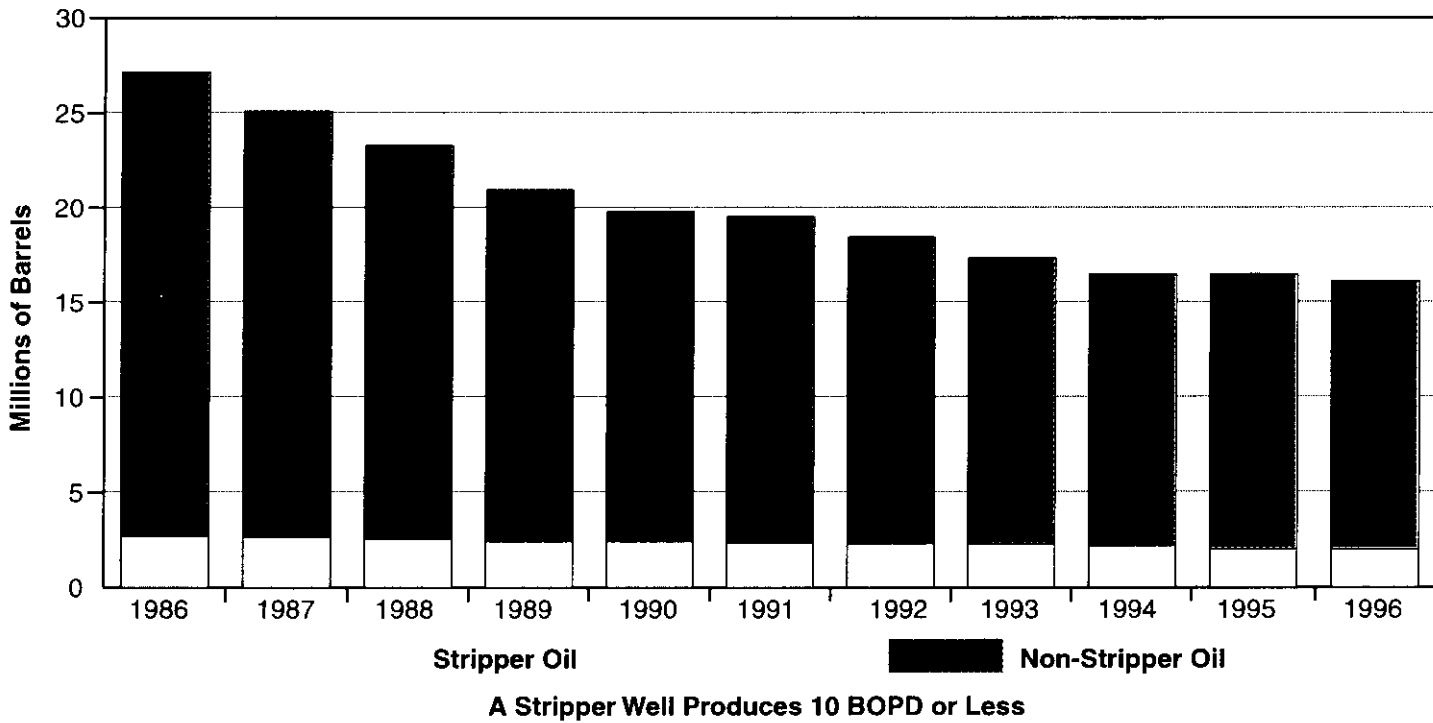
Oil Produced and Oil Value



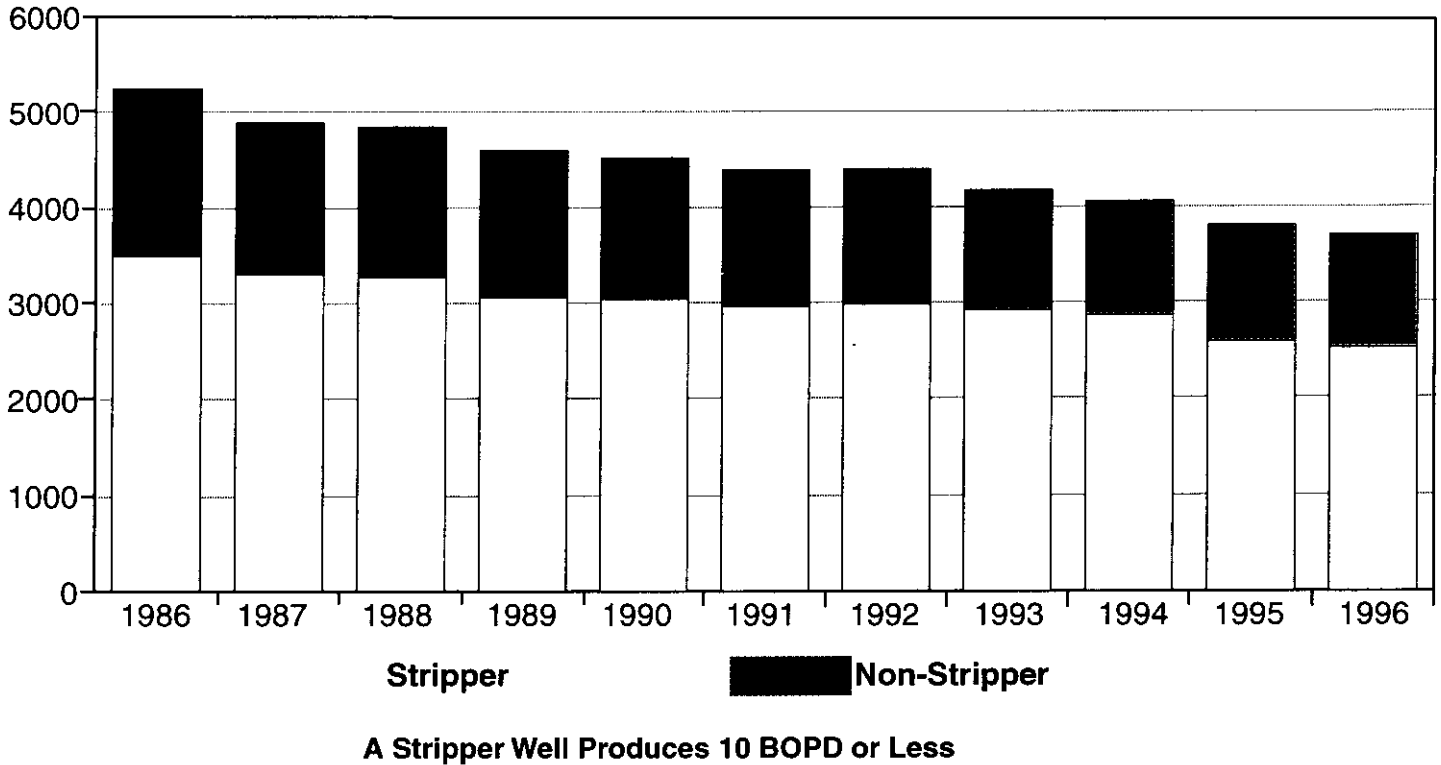
Gas Produced and Gas Value Natural and Associated Gas



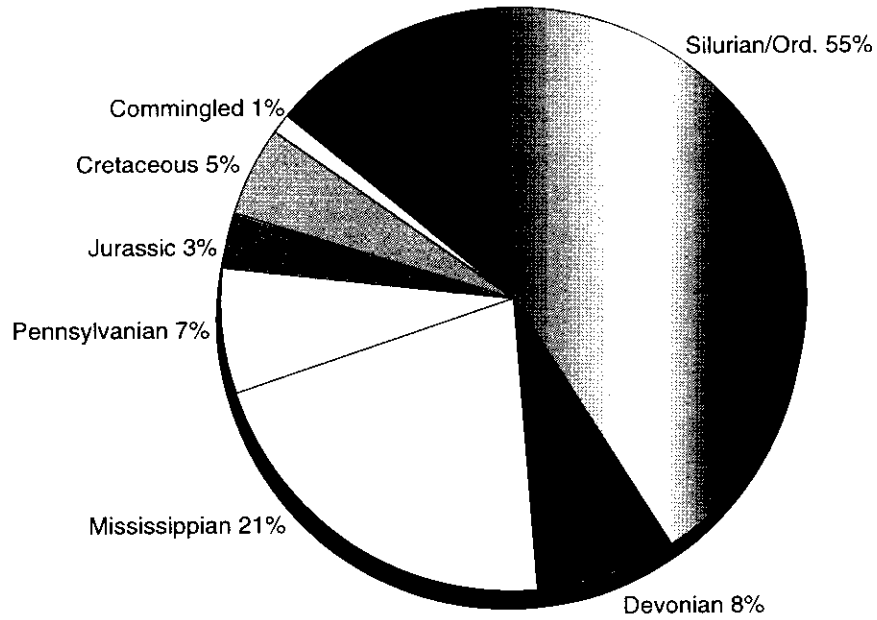
Stripper and Non-Stripper Oil Production



Stripper and Non-Stripper Number of Producing Wells



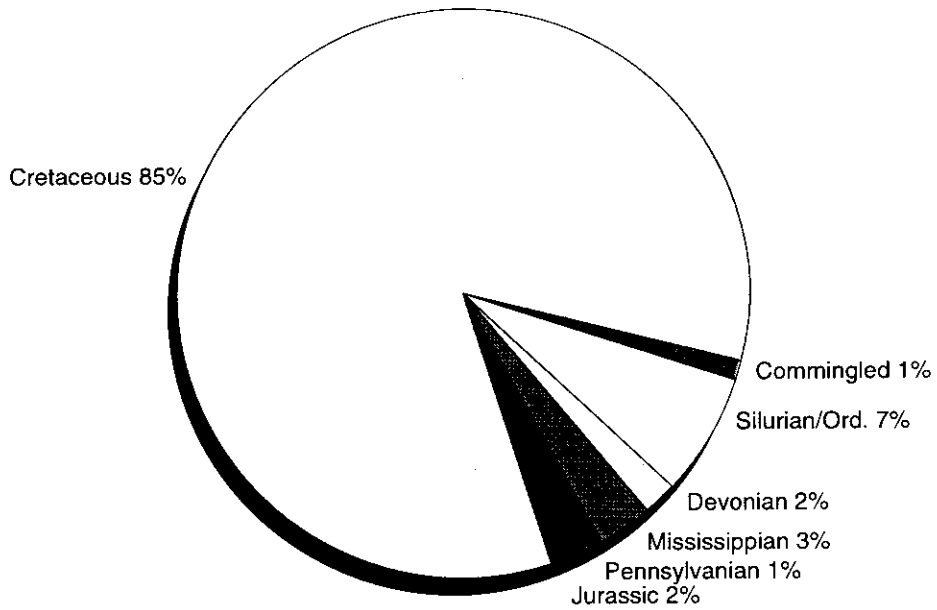
Oil Production By Geologic Period



16,151,607 Bbls Produced

Gas Production By Geologic Period

Natural and Associated Gas



51,581,533 Mcf Produced

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
ALMA				
Bow Island, Blackleaf	0	0	2	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 no closer than 660' to spacing unit boundary; spacing units to consist of two contiguous quarter sections lying within one or two 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	
Burwash	0	1	0	
Dakota	0	1	0	
Sunburst	0	4	0	
Swift, Sunburst	0	8	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 with one well per spacing unit (Order 75-85).
Nisku	2	0	0	
Winnipegosis	1	0	0	
Red River	6	0	1	
ARCH APEX				
Bow Island	0	39	5	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	0	Spacing waived within unitized portion of field except no well may be drilled closer than 660' to unit boundary (Order 4-65). Waterflood initiated October 1964 (Orders 22-64, 15-66).
ASHFIELD				
Bowdoin	0	69	6	640-acre spacing units for Bowdoin/Greenhorn/Phillips with two wells per formation (Orders 41-82 and 16-89). Amended 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' geologic or topographic tolerance (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	56	0	
ATOR CREEK				
Red River	1	0	0	Single spacing unit comprised of W/2 NE/4 and E/2 NW/4, Sec. 36, T 35 N, R 55 E for production of oil from Red River Formation.
BADLANDS				
Eagle	0	6	7	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				
Mission Canyon	1	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).
Red River	2	0	0	
BAINVILLE, NORTH				
Mission Canyon	2	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 units for production from the Nisku Formation (Orders 61-92, 57-96). Single spacing unit for production from the Madison (Order 16-93). Pooling, Red River (Order 61-96).
Ratcliffe	2	0	0	
Nisku	2	0	0	
Winnipegosis	4	0	0	
Interlake	1	0	0	
Red River	6	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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).
BANNATYNE Swift	17	0	1	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	56	4	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	1	
BELL CREEK Muddy	37	0	237	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). Certification of Consolidated Unit as an Expanded Enhanced Recovery Unit (Order 44-96).
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	1	0	1	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	0	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	0	
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	0	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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	25	1	
Bow Island	0	6	0	
BIG WALL				
Amsden	3	0	4	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). Waterflood of Tyler "B" sand started August 1966 (Order 22-66). A second Tyler "B" waterflood authorized by Order 96-83.
Tyler	8	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	6	6	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	2	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	
BLACKFOOT				
Bow Island, Dakota	0	2	0	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). 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).
Dakota	0	6	1	
Sunburst, Dakota	0	2	0	
Cut Bank, Madison	18	0	2	
Nisku	0	0	1	
BLACKJACK				
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	0	1	
Sunburst	0	11	0	
BLACKLEAF CANYON				
Sun River Dolomite	0	0	4	Single 160-acre Madison spacing unit (Order 84-81). Knowlton Unit: 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	0	
BLUE MOUNTAIN				
Red River	1	0	1	Statewide.
BORDER				
Cut Bank	11	0	6	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, 26-73).
Moulton	0	1	0	
Sunburst	0	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BOWDOIN & AREA				
Bowdoin	0	18	1	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	9	3	
Greenhorn	0	327	22	
Phillips	0	39	5	
BOWES				
Eagle	0	44	9	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	47	0	35	
BOX CANYON				
Red River	0	0	1	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). Amended to allow two wells per spacing unit (Order 47-95).
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	11	0	2	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				
Big Elk	0	0	1	Single 640-acre Frontier spacing unit comprised of Sec. 35, T5N, R22E (Order 8-86).
BRORSON				
Madison	4	0	0	One well per 160-acre spacing unit, wells no closer than 660' from spacing unit boundary for Mission Canyon and Red River Formations (Order 5-69). Field enlargement (Order 25-82).
Mission Canyon	4	0	0	
Ratcliffe	1	0	0	
Interlake	1	0	0	
Red River	4	0	0	
BRORSON, SOUTH				
Madison	1	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	5	0	0	
Bakken	2	0	0	
Red River	0	0	1	
BROWNS 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).
BROWNS COULEE, EAST				
Eagle	0	0	3	Statewide.
Judith River	0	0	1	
BRUSH LAKE				
Red River	4	0	1	320-acre Red River spacing units with initial nine spacing units described in Order 15-71.
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	1	0	0	Statewide.
BURNS CREEK, SOUTH				
Red River	0	0	1	Statewide.
CABARET COULEE				
Madison	1	0	3	Statewide.
CABIN CREEK				
Madison	8	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 (75-94).
Siluro-Ordovician	96	0	7	
Red River	8	0	1	
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 spacing unit boundary, and 990' to field boundaries (Order 18-76).
CANADIAN COULEE, NORTH				
	0	0	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-81E designated as a spacing unit for Nisku Formation with permission to commingle production with Red River (Order 29-87).
CAT CREEK, EAST DOME				
Ellis	5	0	0	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	50	0	6	See Cat Creek, East Dome regulation summary.
Cat Creek 2	0	0	4	
Mowry	0	0	2	
Ellis	0	0	1	
Morrison	2	0	1	
CATTAILS				
Ratcliffe	7	0	0	160-acre spacing units for Ratcliffe zone; 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 zone; 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	107	20	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). Single 320 acre spacing unit for Dawson Bay oil production (Order 3-95).
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				
	0	0	0	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	1	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	2	0	0	
Red River	5	0	0	
CLEAR LAKE, SOUTH				
Red River	1	0	0	Statewide.
COAL COULEE				
Eagle	0	0	3	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				
Ratcliffe	1	0	0	Statewide.
COLORADO CANYON				
Nisku	0	0	1	Single Red River spacing unit (Order 28-84). Single 160-acre Nisku spacing unit (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				
Ratcliffe	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).
Nisku	1	0	1	
Nisku, Duperow	0	0	2	
Red River	4	0	1	
COMERTOWN AREA, SOUTH				
Red River	0	0	1	Statewide.
COMERTOWN, SOUTH				
Red River	1	0	0	320-acre designated spacing units, wells located no closer than 660' to unit boundary (Order 96-84). Enlarged (Order 20-85).
CONRAD, SOUTH				
Dakota	0	0	4	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	0	0	5	
COTTONWOOD				
Ratcliffe	2	0	0	Single 320-acre Red River spacing unit (Order 85-84). Amended to include Ratcliffe (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	5	0	4	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	0	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				
Blackleaf	0	2	2	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 any well drilling or producing from same reservoir (Orders 82-76, 6-77). Field extension (Order 3-79). Rules amended to include all formations from surface to base of Madison Formation (Order 45-80). Field enlarged (Orders 68-83, 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). Exception locations in SE Cut Bank Sand Unit (Orders 13-96, 20-96).
Bow Island	0	24	0	
Cut Bank	428	206	262	
Dakota	0	1	0	
Kootenai	0	2	1	
Lander	1	2	3	
Moulton	18	6	36	
Moulton, Sunburst	2	0	0	
Sunburst	7	9	4	
Cut Bank, Madison	4	0	0	
Madison	40	1	23	
DAGMAR				
Red River	2	0	0	Statewide.
DEAN DOME				
Greybull	0	0	3	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	2	0	1	Statewide.
DEN McGowan	1	0	0	Delineated with single spacing unit for production of oil from Charles and Mission Canyon Formations with two existing wells as the designated wells (Order 34-95).
Ratcliffe	2	0	0	
DEVILS 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	
DEVILS POCKET	0	0	0	40-acre spacing units for Heath Formation; wells no closer than 165' to spacing unit boundary (Order 34-85).
DEVON Bow Island	0	25	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, existing wells excluded (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	5	6	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	3	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).
Mission Canyon	1	0	0	
Ratcliffe	4	0	0	
Red River	1	0	0	
DIVIDE AREA Red River	3	0	0	Statewide.
DOOLEY Ratcliffe	3	0	0	Statewide.
DRY CREEK Eagle	0	1	0	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).
Frontier	0	14	1	
Judith River	0	3	0	
Virgelle	1	2	0	
Greybull	1	1	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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).
DRY FORK Bow Island	0	6	3	One well per section per horizon above top of Kootenai; wells no closer than 990' to spacing unit boundaries (Order 32-82).
DUNKIRK Dakota	0	14	2	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	28	7	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, 6-95). 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	1	0	1	Statewide plus two designated 160-acre spacing units (Orders 95-94 and 96-94).
Ratcliffe	1	0	1	
DUTCH JOHN COULEE Sunburst	1	3	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	4	0	7	160-acre Madison spacing units; well location in center of SE 1/4 of spacing units with 175' topographic tolerance (Orders 25-80, 29-81). Field reduction (Order 30-85). Single 320-acre Nisku spacing unit (Order 30-87). Waterflood (Order 20-88). Single Red River spacing unit with 2 wells (Order 97-83). Single 320-acre Winnipegosis spacing unit (Order 10-91). Exception to produce Ratcliffe (Order 60-96).
Ratcliffe	2	0	0	
Nisku	0	0	1	
Winnipegosis	0	0	1	
Red River	3	0	0	
Red River, Nisku	2	0	0	
EAGLE Madison	3	0	0	Statewide.
Mission Canyon	3	0	0	
Ratcliffe	2	0	1	
Duperow	1	0	0	
Red River	1	0	0	
EAGLE SPRINGS Bow Island	0	5	4	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).
EAST GLACIER Greenhorn	1	0	1	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	14	Spacing waived within unit areas (Order 10-81). 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	22	
Madison	14	1	3	
Big Horn	0	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
ELK BASIN, NORTHWEST				
Frontier	0	2	7	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	2	0	0	
Embar, Tensleep	0	0	8	
Madison	3	0	6	
ENID, NORTH				
Red River	1	0	3	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).
ETHRIDGE				
Swift	0	8	0	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	3	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	11	0	2	
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	0	0	1	
Ratcliffe	1	0	0	
FERTILE PRAIRIE				
	0	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 section of each quarter section with 75' tolerance for surface obstructions (Order 65-80). Field enlargement (Order 70-94). Field rules vacated for Red River Formation (East Lookout Butte (Red River) unit, Order 70-95).
FIDDLER CREEK				
Greybull	0	0	2	Statewide.
FISHHOOK				
Madison	1	0	0	Statewide.
Red River	2	0	0	
FITZPATRICK LAKE				
Bow Island	0	9	2	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 (Order 1-94).
Swift	0	0	1	
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	4	0	
Swift	16	1	4	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
FLAT LAKE				
Greenhorn	0	0	1	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).
Dakota	0	0	1	
Madison	1	0	0	
Ratcliffe	33	0	32	
Nisku	2	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 (Order 2-67); modified to provide that wells may be located anywhere within the spacing 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).
FORT CONRAD				
Bow Island	0	16	0	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	3	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				
	0	0	0	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	1	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	18	0	32	
Swift, Sunburst	0	0	2	
Swift	1	0	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				
Cat Creek 1	0	0	1	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).
Amsden	2	0	0	
GALATA				
Bow Island	0	6	3	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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	6	0	3	
Red River	2	0	1	
GILFORD, NORTH				
	0	0	0	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	
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	0	1	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	2	5	0	
Greybull	0	1	0	
GOOSE LAKE				
Ratcliffe	18	0	12	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	0	1	
GOOSE LAKE RED RIVER				
Red River	1	0	0	Two 320-acre spacing units for Red River Formation production (Orders 1-82, 56-96).
GOOSE LAKE, WEST				
Red River	1	0	0	Statewide.
GOSSETT				
Ratcliffe	1	0	0	Statewide.
Red River	1	0	0	
GRABEN COULEE				
Cut Bank	55	1	30	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	8	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	0	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 S. U.)				
Tyler	3	0	0	Tyler secondary recovery unit approved (Order 5-75).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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).
GREEN COULEE, EAST	0	0	0	Delineated for production from Red River Formation with single 320-acre spacing unit (Order 99-82). Redelineation (Order 8-95).
GUMBO RIDGE Tyler	2	0	2	Tyler Formation waterflood unit (Order 54-79). Certified as an expanded enhanced recovery unit effective 1/1/95 (Order 1/95).
GUNSIGHT Madison	1	0	0	Statewide.
Mission Canyon	1	0	0	
Ratcliffe	1	0	0	
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	0	0	10	
Morrison	0	0	1	
Swift	0	0	2	
Sawtooth	0	0	4	
Madison	4	0	22	
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	2	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).
Madison	0	0	1	
HARDSCRABBLE CREEK	0	0	0	Statewide.
HAVRE Eagle	0	1	1	Single spacing unit for production of gas from Eagle (Order 48-82).
HAWK CREEK Amsden	0	0	1	Statewide.
HAWK HAVEN Mission Canyon	1	0	0	Single 320-acre Madison spacing unit (Order 101-94).
HAY CREEK Mission Canyon	2	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	2	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	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
HIBBARD Amsden	0	0	2	Statewide.
HIGH FIVE Stensvad	5	0	4	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).
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	1	0	0	
Madison	6	0	13	
Devonian	1	0	0	
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	0	0	1	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).
Morrison	1	0	0	
Amsden	1	0	0	
Amsden, Tyler	0	0	2	
Tyler	2	0	3	
JIM COULEE Tyler	5	0	1	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 Nesson	1	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).
Madison	3	0	0	
Mission Canyon	1	0	0	
Red River	5	0	0	
KEG COULEE Lower Tyler	2	0	5	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	3	0	6	
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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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. Amended to allow additional wells in Johns and Osler units (Order 52-95). Designation of 36N-6E-13 as spacing unit; no more than 4 wells for each Cretaceous Fm and no more than 2 wells for each pre-Cretaceous Fm (Order 47-96). Kolhei Unit - no more than 4 wells for each Cretaceous Fm and no more than 2 wells for each pre-Cretaceous Fm (Order 48-96).
Second White Specks	0	11	0	
Bow Island	0	13	0	
Sawtooth	0	4	1	
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). Certified as an expanded enhanced recovery unit effective 4/1/95 (Order 19-95).
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	0	6	0	
Bow Island, Dakota, Sunburst	0	6	0	
Bow Island, Sunburst	0	8	0	
Dakota	0	5	0	
Kootenai	0	1	0	
Sunburst	0	6	3	
Sunburst, Dakota	0	4	0	
Bow Island, Dakota, Sunburst, Swift	0	4	0	
Swift	0	2	0	
KEVIN SUNBURST				
Blackleaf	0	1	0	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	0	32	4	
Bow Island, Dakota	0	4	2	
Bow Island, Dakota, Kootenai, Sunburst	0	12	0	
Bow Island, Dakota, Sunburst	0	6	0	
Bow Island, Sunburst	0	20	0	
Bow Island, Swift	0	6	0	
Burwash	9	1	1	
Dakota	0	2	0	
Sunburst	87	46	53	
Sunburst, Dakota	0	4	0	
Swift, Sunburst	0	6	0	
Ellis	32	2	50	
Swift	30	12	2	
Ellis, Madison	0	0	4	
Madison	612	6	942	
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	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
KEVIN, EAST NISKU OIL Nisku	13	1	4	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 24-86).
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	
KICKING HORSE Bow Island	0	13	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	3	1	
KINCHELOE RANCH, WEST Tyler	5	0	1	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	0	0	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(LAIRD CREEK UNIT) 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 Big Elk	0	1	0	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).
Claggett	0	3	0	
Eagle	0	6	2	
Frontier	0	1	0	
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 Interlake	0	0	1	320-acre Red River spacing units consisting of the E 1/2 and W 1/2 of section (Order 3-83).
Red River	2	0	1	
LAMBERT, SOUTH Red River	1	0	0	Single Red River Formation Spacing Unit (Order 75-96).
LAMESTEER CREEK	0	0	0	Single Red River spacing unit (Order 101-84).
LANDSLIDE BUTTE Madison	11	1	5	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LEDGER				
Bow Island	0	45	11	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	21	11	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).
LITTLE BASIN				
	0	0	0	640-acre Frontier spacing units; one well per section located no closer than 990' to spacing unit boundary (Order 27-86).
LITTLE BEAVER				
Siluro-Ordovician	29	0	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	10	0	1	
Red River	1	1	0	
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	4	0	4	
LITTLE WALL CREEK, SOUTH				
Tyler	8	0	2	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 22-82).
LODGE GRASS				
Tensleep	2	0	0	Statewide.
LOHMAN				
Eagle	0	2	5	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.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LONE BUTTE				
Madison	1	0	0	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	
Ratcliffe	0	0	1	
Red River	2	0	0	
LONETREE CREEK				
Mission Canyon	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). Interlake spacing unit consisting of the N/2, Sec. 10, T24N, R57E (Order 51-95).
Interlake	2	0	0	
Red River	4	0	1	
Red River, Interlake	2	0	0	
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.
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	2	2	2	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 (Orders 7-63, 5-95). 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, 5-95).
Siluro-Ordovician	33	0	4	
Red River	6	0	0	
LOOKOUT BUTTE, EAST, AND AREA				
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 67-85). Field enlargement and inclusion of Madison group and all Silurian formations (Order 6-87). Pilot waterflood (Orders 19-88, 21-89, 42-90A, 49-90, 77-92, 35-93, 23-94). Redelineation of pilot area and certification as an expanded enhanced recovery project (Order 53-94). Approval of enhanced recovery unit for Red River Formation (Order 70-95).
Interlake	0	0	1	
Red River	51	0	6	
LORING				
Bowdoin	0	88	4	640-acre spacing units with 2 wells per formation (Order 79-82 and 12-89). 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, 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	168	0	
Greenhorn	0	3	0	
Greenhorn-Phillips	0	60	2	
Phillips	0	5	1	
LORING, EAST				
Bowdoin	0	18	0	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	42	6	
Bowdoin, Greenhorn, Phillips	0	36	9	
Greenhorn	0	2	2	
Greenhorn-Phillips	0	16	0	
Phillips	0	27	3	
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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LUSTRE				
Charles	9	0	2	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). Field Reduction (Order 43-96).
Charles C	15	0	1	
Mission Canyon	5	0	1	
Ratcliffe	6	0	0	
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				
	0	0	0	Statewide.
MARIAS RIVER				
Bow Island	0	13	4	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).
Dakota	0	0	1	
MASON LAKE				
Cat Creek 1	4	0	9	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). Pilot enhanced recovery approved (Orders 37-88, 67-89 and 52-90). Mason Lake (1st Cat Creek) Unit approved (Order 80-96).
Cat Creek 3	0	0	1	
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). Additional Red River 'C' well, S/2 Sec. 22, T32N, R56E (Order 10-96).
Mission Canyon	1	0	0	
Devonian	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	7	0	0	Statewide. Also a single 80-acre Charles Formation spacing unit (Order 46-92).
Nisku	1	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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	5	
Sunburst	0	2	9	
Swift, Sunburst	0	2	0	
Sawtooth	0	0	1	
Sawtooth, Madison	0	2	0	
MISSOURI BREAKS				
Nisku	1	0	0	320-acre Red River spacing units as specified by Order 97-82. Creation of 320-acre spacing unit for production from Charles, Mission Canyon, and Nisku Formations (Order 8-95).
MON DAK, WEST				
Madison	8	0	0	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). Field Reduction (Order 42-96).
Madison, Ordovician	2	0	0	
Mission Canyon	6	0	0	
Ratcliffe	0	0	1	
Devonian	0	0	1	
Duperow	1	0	0	
Interlake	1	0	0	
Siluro-Ordovician	0	0	1	
Red River	2	0	0	
Red River, Stony Mountain	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). Field expansion (Order 2-96).
Interlake	4	0	0	
Siluro-Ordovician	14	0	6	
Red River	4	0	1	
Red River, Interlake	0	0	2	
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	
MUSTANG (BAKKEN)				
Bakken	1	0	0	NE/4 Sec. 33, T24N, R 57E approved as single-well spacing unit for Bakken oil production (Order 54-94).
NEISER CREEK				
Red River	2	0	0	Single 160-acre Red River spacing unit (Order 78-82). Enlargement (Order 63-96).
NIELSEN COULEE				
Madison	2	0	0	Statewide. Second well in quarter section authorized (Order 37-93).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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 8-94, 105-94).
Mission Canyon	2	0	0	
Ratcliffe	3	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).
O'BRIENS COULEE Second White Specks	0	1	0	Statewide.
Blackleaf	0	1	1	
Bow Island	0	11	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). Field enlargement (Order 31-95).
Sunburst	0	61	4	
Swift, Sunburst	0	8	0	
Swift	0	36	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). Designation of single 160-acre spacing unit for Charles Formation production (Order 9-95).
OUTLET	0	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	1	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	4	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, SOUTHWEST WINNIPEGOSIS Winnipegosis	1	0	0	Single 320-acre spacing unit (Order 92-94).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
OUTLOOK, WEST Winnepegosis	1	0	0	160-acre spacing units for Winnepegosis 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 Red River	1 1	0 0	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).
PALOMINO Nisku	5	0	0	Statewide.
PARK CITY Frontier Virgelle	0 0	1 0	0 1	Statewide.
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 Siluro-Ordovician Red River Stony Mountain	140 30 2	0 0 0	17 3 0	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). Field reduction (Order 2-96).
PENNEL AREA Red River	1	0	0	Statewide.
PETE CREEK Sunburst	0	0	1	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 Mission Canyon Siluro-Ordovician Stony Mountain	0 1 85 0	0 0 0 0	3 0 47 1	Statewide spacing rules are waived within the Pine Unit. 80-acre spacing units outside of unit area; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance (Order 37-62). A waterflood program for the south area was started in 1959. A waterflood of the north area was approved in 1967 (Orders 13-68, 1-60, 8-62, 32-67). 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).
POLICE COULEE Bow Island	0	9	0	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
PONDERA				
Madison	301	0	109	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 (Order 2-54). 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	1	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 C	3	0	1	Statewide.
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). Removal of internal setback requirements except for non-committed lands (Order 69-96).
Charles	3	0	0	
Charles C	1	0	0	
Madison	38	0	20	
Nisku	0	0	1	
POPLAR, NORTHWEST				
Charles	3	0	1	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	14	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 (Orders 28-78, 24-79, 132-80, 40-81, 54-81, 142-81, 56-83, 9-85, 60-86, 12-87, 21-95). 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	0	24	0	
Bow Island, Dakota, Kootenai, Swift	0	4	0	
Bow Island, Dakota, Sunburst	0	27	3	
Bow Island, Sunburst	0	36	4	
Bow Island, Sunburst, Swift	0	18	0	
Bow Island, Swift	0	10	2	
Sunburst	0	9	4	
Sunburst, Dakota	0	6	0	
Swift, Sunburst	0	2	0	
Bow Island, Dakota, Sunburst, Swift	0	40	0	
Bow Island, Dakota, Swift	0	21	0	
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	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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	1	0	4	
Swift	1	0	0	
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).
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	7	0	0	
Ratcliffe	1	0	0	
Bakken	2	0	0	
Interlake	1	0	0	
Red River	2	0	1	
Red River, Interlake	2	0	0	
RABBIT HILLS				
Sawtooth	4	0	0	Statewide. Pilot tertiary recovery project including a portion of Northeast Rabbit Hills Field (Order 78-95).
RABBIT HILLS, NORTHEAST				
Sawtooth	10	0	1	160-acre (quarter section) spacing units for Sawtooth, wells not closer 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). Pilot tertiary recovery project (Order 78-95). Pilot Tertiary Recovery Project (Order 14-96).
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	3	0	7	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). Certification of expanded enhanced recovery project effective 4/1/95 (Order 18-95).
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				
	0	0	0	Single 160-acre Red River spacing unit (Order 69-82).
RAPELJE				
Eagle	0	0	6	160-acre spacing for formations from surface to base of Telegraph Creek; wells no closer than 990' to unit boundary; commingling after administrative approval (Order 29-73).
Eagle, Claggett, Virgelle	0	0	9	
Virgelle	0	0	1	
RATTLER BUTTE				
Cat Creek 3	0	0	1	Rattler Butte (Tyler "A") Unit approved (Order 39-92).
Tyler	4	0	0	
RATTLESNAKE BUTTE				
Cat Creek 1	2	0	0	Statewide.
Cat Creek 2	1	0	1	
Amsden	5	0	1	
RATTLESNAKE COULEE				
Bow Island	0	0	2	Statewide.
Sunburst	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RAYMOND				
Mississippian Undifferentiated	1	0	7	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	1	0	0	
Nisku	1	2	0	
Winnipegosis	1	0	0	
Red River	1	0	1	
REAGAN				
Madison	52	1	13	Statewide. (Order 17-54) A pressure maintenance project utilizing gas injection was started in 1961 (Order 21-60). Waterflood (Order 27-72).
RED BANK				
Madison	3	0	0	Statewide.
Mission Canyon	4	0	1	
Ratcliffe	1	0	1	
Nisku	0	0	1	
Red River	1	0	0	
RED BANK, SOUTH				
Red River	1	0	0	Statewide.
RED CREEK				
Cut Bank	5	0	1	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).
Sunburst	1	0	0	
Cut Bank, Madison	18	0	6	
Madison	4	0	2	
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	3	6	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	4	
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.
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). Redelineation and temporary spacing (Orders 11-96, 12-96, 66-96).
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	0	0	1	
RESERVE, SOUTH				
Ratcliffe	0	1	0	Single spacing unit for Red River production (Order 33-86).
Winnipegosis	0	1	0	
RICHEY				
	0	0	0	Statewide, original 80-acre spacing revoked (Order 11-73).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RICHEY, SOUTHWEST Interlake	2	0	0	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	2	0	1	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	7	0	1	
Ratcliffe	3	0	0	
Duperow	4	0	1	
Red River	3	0	0	
RIDGELAWN, NORTH Madison	1	0	0	Single 640-acre spacing unit (Order 11-92).
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	1	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 Cat Creek 1	0	0	1	Statewide. Rosebud "Tyler B" waterflood unit approved (Order 30-91).
Tyler	3	0	1	
ROYALS Dawson Bay	1	0	0	Statewide.
RUDYARD Eagle	0	4	1	640-acre spacing units 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: 640-acre spacing units for Eagle Formation, 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	2	
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	7	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	2	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SAND CREEK Charles	2	0	0	80-acre spacing units for production from the Silurian and Ordovician consisting of any two adjacent quarter-quarter sections; wells to be located in the center of NW and SE 1/4 of each quarter section with 150' topographic tolerance (Order 16-59). Commingling of Interlake and Red River production (Order 49-62). Field enlargement (Order 20-66).
SANDWICH Swift	0	0	1	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 Judith River	0 0	30 3	3 3	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).
SECOND CREEK Mission Canyon Ratcliffe Red River	1 1 2	0 0 0	0 1 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).
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 Burwash Sunburst Swift, Sunburst	0 0 0 0	3 1 5 2	0 0 3 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).
SHERARD Eagle Judith River	0 0	8 1	6 0	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).
SHERARD, AREA Eagle Judith River	0 0	35 3	36 3	Statewide, with numerous exceptions.
SHOTGUN CREEK Mission Canyon Ratcliffe	0 2	0 0	1 0	Statewide.
SHOTGUN CREEK, NORTH	0	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 Mission Canyon Ratcliffe Red River	3 1 3 2	0 0 0 0	0 2 1 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).
SIDNEY, EAST Mission Canyon Ratcliffe	1 0	0 0	1 1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SINGLETREE				
Ratcliffe	1	0	0	Single spacing unit for production from Winnipegosis (Order 78-84).
Nisku	1	0	0	
Winnipegosis	0	0	1	
Red River	0	0	1	
SIOUX PASS				
Red River	5	0	1	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). Additional wells (Orders 82-96, 83-96).
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).
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	2	1	0	
Red River	9	0	0	
Red River, Nisku	2	0	0	
SIOUX PASS, SOUTH				
Red River	2	0	0	Statewide.
SIXSHOOTER DOME				
Eagle	0	3	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).
Telegraph Creek	0	1	0	
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	1	0	0	
SNOW COULEE				
Sunburst	0	1	0	Two 320-acre spacing units for Sunburst gas production (Order 78-76).
SNYDER				
Tensleep	2	0	2	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	16	0	1	
SOAP CREEK, EAST				
Tensleep	3	0	0	Statewide.
SOBERUP COULEE				
	0	0	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	3	1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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). Single 320-acre spacing unit for Bakken Formation production (Order 26-95).
Dawson Bay	1	0	0	
Red River	0	0	1	
SPRING LAKE, WEST				
Bakken	1	0	0	Single 160-acre Duperow spacing unit (Order 42-82).
STAMPEDE				
Madison	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	0	0	1	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	8	
STRAWBERRY CREEK AREA				
Bow Island	0	1	0	Statewide.
Burwash	0	1	0	
Sunburst	0	0	1	
STUDHORSE				
Tyler	3	0	3	Statewide.
SUMATRA				
Amsden	2	0	0	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 Kincheioe Sumatra Unit to tertiary recovery projects (Orders 99-84, 100-84 and 29-85). Certification of Kincheioe Sumatra Unit (Order 23-95) and West Sumatra Unit (Order 68-95) as an expanded enhanced recovery projects.
Lower Tyler	8	0	7	
Tyler	40	0	33	
Heath	1	0	0	
SUNDOWN				
Red River	1	0	0	Single Red River Formation spacing unit (Order 11-97).
SUNNY HILL				
Ratcliffe	1	0	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				
Ratcliffe	1	0	0	Single 320-acre spacing unit consisting of S/2, Sec. 14, T31N, R57E, with designated well (Order 55-93).
SWANSON CREEK				
Bowdoin	0	2	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).
Bowdoin, Greenhorn	0	2	0	
Greenhorn-Phillips	0	14	0	
Phillips	0	68	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	2	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	
Nisku	2	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
THIRTY MILE Sawtooth	1	0	1	Statewide.
THREE BUTTES Bakken	2	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	0	2	Two wells per each gas producing horizon from the surface down to and including the Kootenai Formation per section; 990' setbacks and 1,320' between wells in each section (Orders 143-81, 21-84 and 28-85).
TIBER, EAST Bow Island	0	9	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	316	114	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	5	0	
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).
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	0	
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	0	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.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
UTOPIA				
Bow Island	0	4	0	640-acre spacing units for formations between top of Kootenai and top of Greenhorn; well location 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 located 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	17	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	7	1	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	7	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	9	0	0	
Ratcliffe	1	0	1	
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	
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	1	0	1	
Red River	2	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	1	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	94	3	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	38	0	
Bowdoin, Greenhorn, Phillips	0	147	3	
Greenhorn	0	22	0	
Greenhorn-Phillips	0	126	2	
Phillips	0	2	0	

OIL AND GAS FIELDS

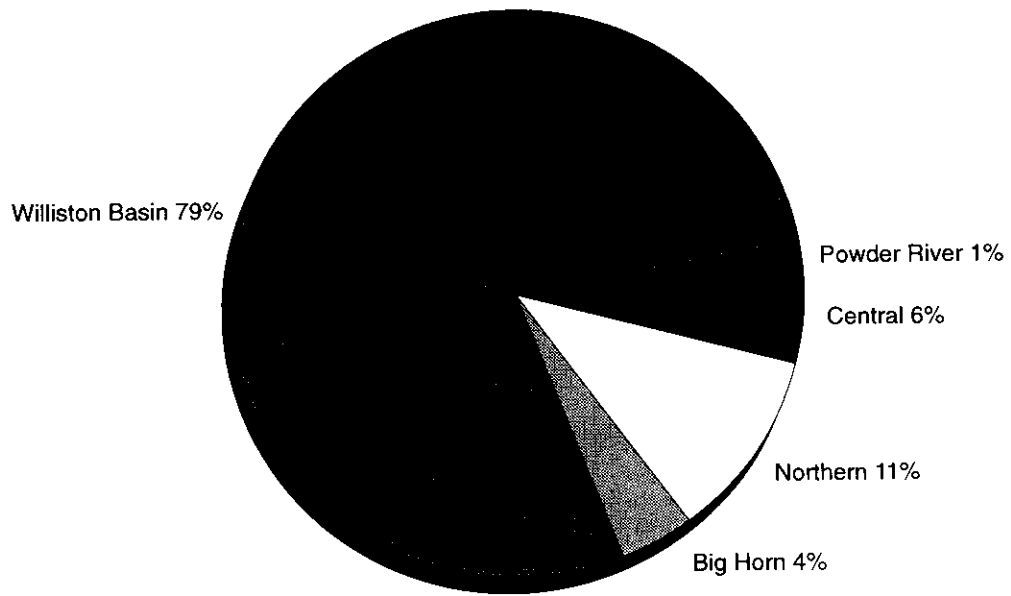
Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WHITEWATER, EAST				
Bowdoin	0	12	0	640-acre spacing units with two wells allowed per formation to be located anywhere within the spacing unit but not closer than 990' to spacing unit boundary (Order 100-83). Amend to allow 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).
Greenhorn-Phillips	0	18	0	
Phillips	0	18	0	
WHITLASH				
Bow Island	5	25	4	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	0	0	3	
Sunburst	0	1	3	
Swift, Sunburst	24	4	50	
Rierdon	0	0	1	
Swift	19	7	22	
Madison	0	1	1	
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	9	0	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	
WILLOW RIDGE, SOUTH				
Sunburst	0	1	0	Statewide.
WILLOW RIDGE, WEST				
Bow Island	0	3	0	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	4	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). Field enlargement and designation of single 640-acre spacing unit for up to 4 horizontal or vertical wells (Order 4-95).
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	3	0	3	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.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WOLF SPRINGS, SOUTH Amsden	2	0	5	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	
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).

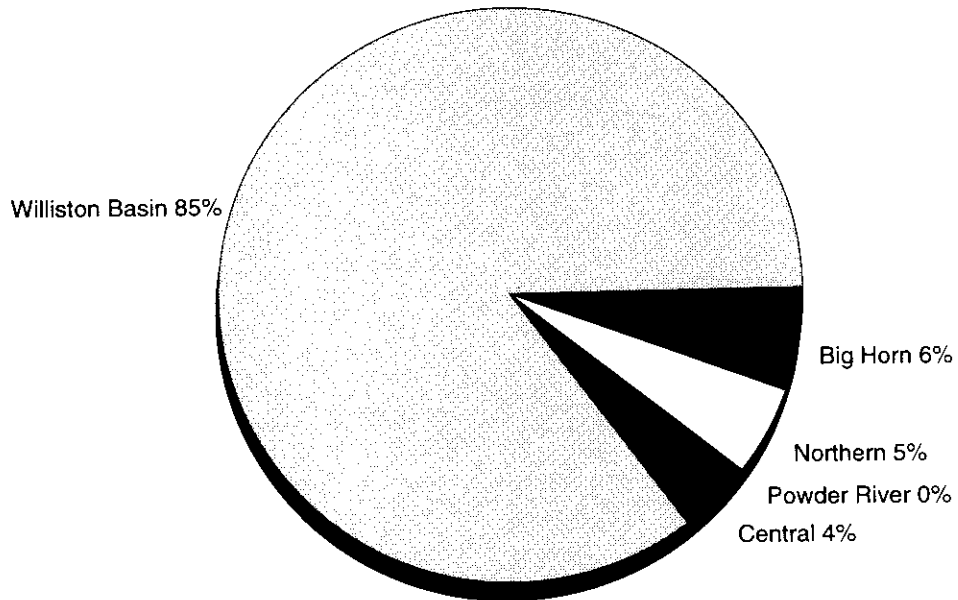
1996 Oil Production by Region

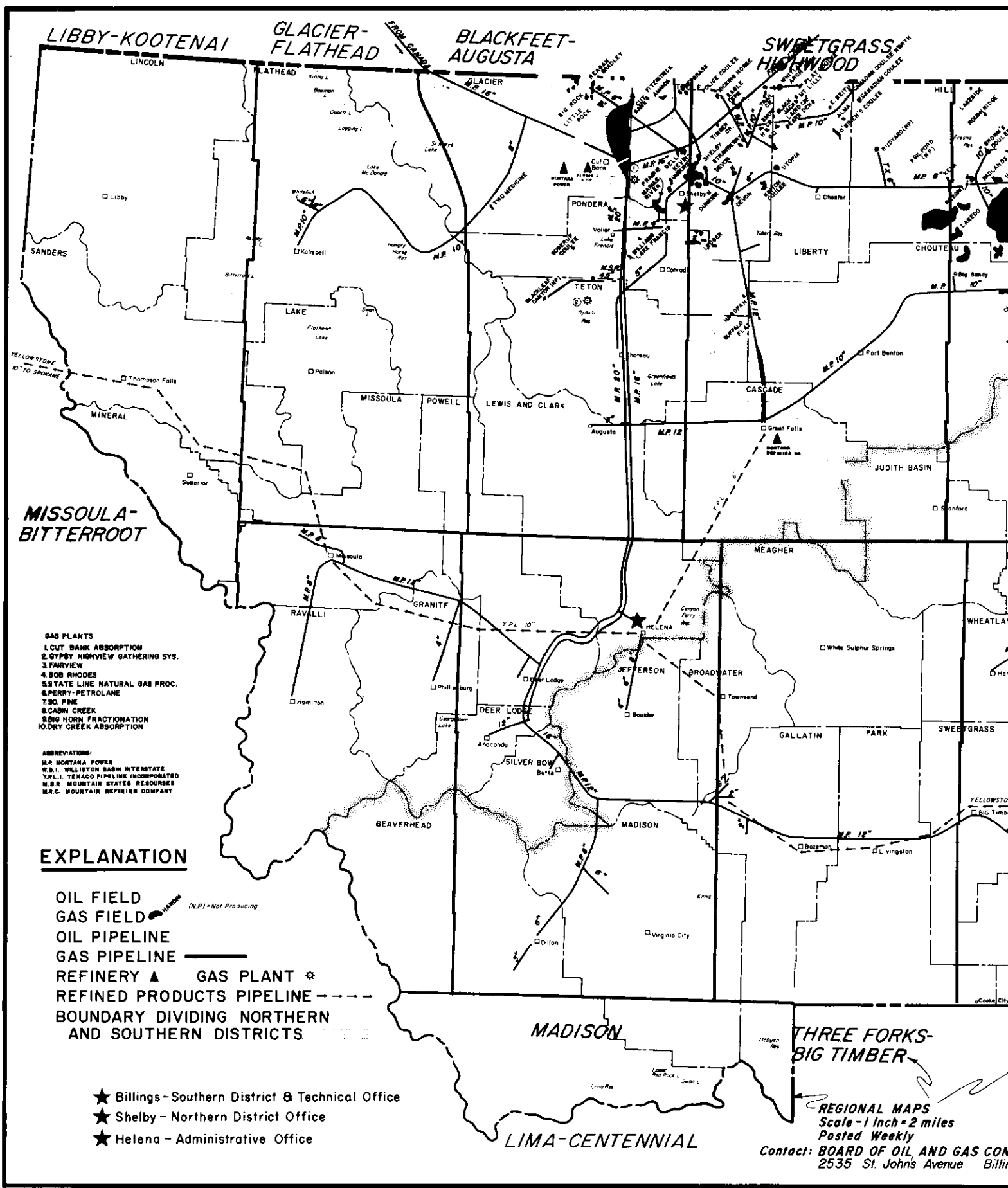
16,151,607 Barrels



1996 Oil Reserves by Region

(124 Million Barrels)





- 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. 90. PINE
 - 8. CABIN CREEK
 - 9. BIG HORN FRACTIONATION
 - 10. DRY CREEK ABSORPTION

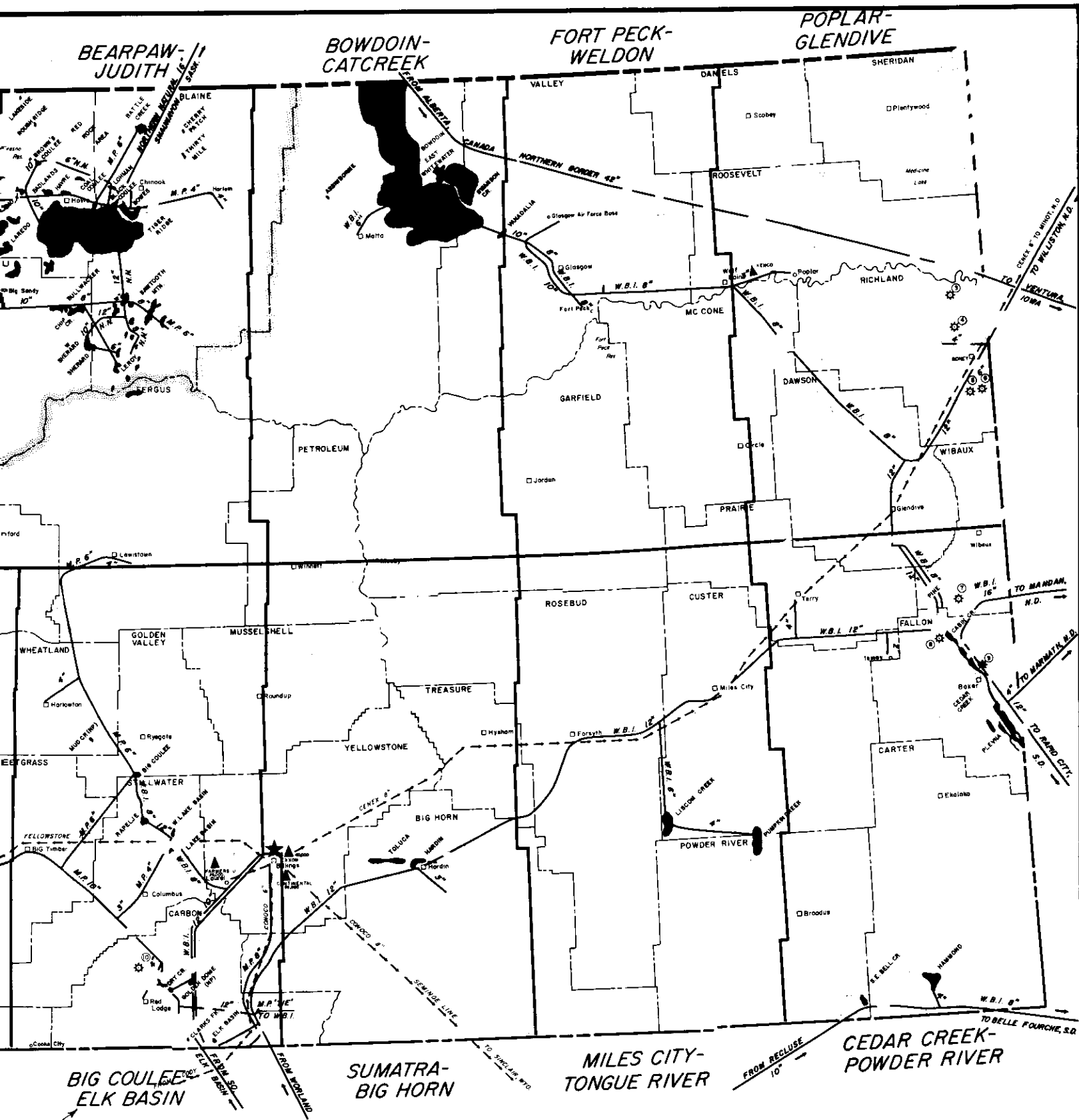
- ABBREVIATIONS:**
- M.P. MONTANA POWER
 - R.B.I. WILKINSON BASIN INTERSTATE
 - T.P.L. TEXACO PIPELINE INCORPORATED
 - M.S.R. MOUNTAIN STATES RESOURCES
 - M.A.C. MOUNTAIN REFINING COMPANY

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 CONTROL
 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

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.	SECD.
1	Anvil	Nisku	Roosevelt	1981	10900	40.0	1.50	14	17	34	39	0
2	Anvil	Ratcliffe	Roosevelt	1982	8990	36.0	1.35	22	11	50	14	0
3	Anvil	Red River	Roosevelt	1978	12600	47.0	1.63	26	14	32	12	0
4	Ash Creek	Shannon	Big Horn	1952	4500	34.0	1.00	14	22	42	26	5
5	Bainville	Ratcliffe	Roosevelt	1988	8630	38.0	0.00	16	0	0	0	0
6	Bainville	Siluro/Ord.	Roosevelt	1969	12402	44.0	0.00	8	25	31	0	0
7	Bainville II	Red River	Roosevelt	1981	12700	42.0	1.20	40	10	35	5	0
8	Bainville, North	Nisku	Roosevelt	1992	10832	43.4	0.00	8	0	0	0	0
9	Bainville, North	Ratcliffe	Roosevelt	1980	8800	30.0	0.00	13	14	52	0	0
10	Bainville, North	Red River/Interlake	Roosevelt	1979	12400	43.0	1.55	40	9	32	14	0
11	Bainville, North	Winnipegosis	Roosevelt	1979	11400	44.0	1.60	35	7	20	18	0
12	Bainville, West	Red River	Roosevelt	1978	8500	34.0	1.50	12	6	45	13	0
13	Bannatyne	Swift	Teton	1927	1500	27.0	1.05	39	15	43	2	0
14	Beanblossom	Lower Tyler	Garfield	1985	4562	32.0	1.05	22	21	35	6	0
15	Bears Den	Swift	Liberty	1924	2300	39.0	1.08	20	9	35	30	0
16	Bell Creek	Muddy	Powder River	1967	4400	36.0	1.11	10	26	23	31	28
17	Benrud, East	Nisku	Roosevelt	1962	7500	46.0	1.37	22	15	30	37	0
18	Big Wall	Amsden	Musselshell	1953	2500	19.0	1.01	17	16	35	28	0
19	Big Wall	Lower Tyler Unit	Musselshell	1948	3000	31.0	1.02	22	17	40	34	1
20	Big Wall	Upper Tyler Unit	Musselshell	1948	3000	30.8	1.03	16	17	32	4	0
21	Blackfoot	Devonian/Madison	Glacier	1957	3500	30.0	1.10	15	15	35	26	22
22	Bloomfield	Dawson Bay	Dawson	1984	10500	41.0	1.38	15	2	25	47	0
23	Bloomfield	Interlake/Red River	Dawson	1983	10650	43.0	1.32	13	4	0	21	0
24	Bowes Sawtooth Unit	Sawtooth	Blaine	1949	3300	19.0	1.02	32	12	31	15	0
25	Brady	Sunburst	Pondera	1942	1500	34.0	1.01	10	12	30	5	0
26	Breed Creek	Tyler	Rosebud	1976	4900	32.0	1.15	20	15	37	44	0
27	Brorson	Madison	Richland	1954	9600	32.0	1.40	40	5	40	15	0
28	Brorson	Red River	Richland	1968	12600	48.0	1.70	20	10	35	39	0
29	Brorson, South	Bakken	Richland	1990	10400	42.0	0.00	24	0	4	0	0
30	Brorson, South	Madison	Richland	1978	9000	42.0	0.00	52	0	0	0	0
31	Brush Lake	Red River	Sheridan	1969	11400	40.0	1.50	30	14	35	10	0
32	Burget, East	Madison	Roosevelt	1981	9000	0.0	0.00	36	0	0	0	0
33	Cabin Creek Unit 1	Siluro/Ord.	Fallon	1953	9000	33.0	1.20	50	13	30	10	11
34	Cabin Creek Unit 2	Madison	Fallon	1956	7300	33.0	1.13	25	11	30	56	0
35	Canal	Madison	Richland	1977	9200	33.0	1.30	47	2	41	29	0
36	Canal	Red River	Richland	1970	12700	47.0	2.07	58	8	40	23	0
37	Cat Creek West Dome	1st and 2nd Cat	Petroleum	1920	1100	52.0	1.10	51	21	19	16	5
38	Cattails	Ratcliffe	Richland	1987	8975	31.6	0.00	0	0	0	0	0
39	Cattails, South	Ratcliffe	Richland	1991	9445	33.4	0.00	26	0	0	0	0
40	Charlie Creek	Dawson Bay	Richland	1994	0	0.0	0.00	0	0	0	0	0
41	Charlie Creek, East	Red River	Richland	1980	11900	45.0	0.00	27	0	0	0	0
42	Chelsea Creek	Nisku	Roosevelt	1961	7626	44.7	0.00	0	0	0	0	0
43	Clear Lake	Madison	Sheridan	1978	7600	33.0	1.15	10	5	30	44	0
44	Clear Lake	Nisku	Sheridan	1979	9000	43.0	1.53	31	11	27	4	0
45	Clear Lake	Red River	Sheridan	1977	11200	42.0	1.65	32	18	35	8	0
46	Clear Lake, South	Red River	Sheridan	1984	11500	38.0	1.39	10	23	21	4	0
47	Comertown	Duperow/Nisku	Sheridan	1983	10672	36.0	1.30	13	17	39	11	0
48	Comertown	Red River	Sheridan	1980	10500	30.0	1.30	19	10	38	41	0
49	Comertown, South	Red River	Sheridan	1984	11000	38.0	1.08	17	12	50	6	0
50	Cottonwood	Ratcliffe	Richland	1992	8805	0.0	0.00	12	0	0	0	0
51	Cottonwood, East	Ratcliffe	Richland	1990	8842	31.5	0.00	36	0	46	0	0
52	Cow Creek, East	Kibby	McCone	1971	6300	35.0	1.05	15	15	0	10	0
53	Crane	Devonian	Richland	1979	11900	47.0	1.65	20	12	35	23	0
54	Crane	Siluro/Ord.	Richland	1979	12700	44.4	1.50	8	12	18	32	0
55	Cupton	Red River	Fallon	1955	9600	38.0	1.25	40	12	16	5	0
56	Cut Bank	Cut Bank/Madison	Glacier/Toole	1932	2900	31.0	1.09	18	15	35	21	6
57	Dagmar	Red River	Sheridan	1976	11300	37.0	1.65	22	16	35	6	0
58	Deer Creek	Charles	Dawson	1990	7870	30.2	1.00	10	13	50	12	0
59	Diamond Point	Red River	Roosevelt	1976	11900	47.0	0.00	26	0	0	0	0
60	Divide	Madison	Sheridan	1979	7900	33.0	1.35	25	7	42	19	0
61	Divide	Red River	Sheridan	1987	11398	35.4	0.00	14	0	0	0	0
62	Dooley	Ratcliffe	Sheridan	1987	6451	28.0	0.00	0	0	0	0	0
63	Dutch John Coulee	Sunburst	Toole	1985	2040	48.0	1.20	12	21	30	10	0
64	Dwyer	Nisku	Sheridan	1987	9120	43.0	0.00	0	0	0	0	0
65	Dwyer	Red River	Sheridan	1982	11552	35.0	0.00	0	0	0	0	0
66	Dwyer Unit	Charles	Sheridan	1960	8000	37.0	1.32	38	11	56	16	5

PRODUCING OIL FIELDS — 1996

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1996 PRODUCTION		CUMUL. PROD. 1-96 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
F.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
0		480	3900	8125	1540	0	1540	3208	229	45449	125	1149	391	1
0		320	2225	6953	310	0	310	969	44	8598	24	233	77	2
0		2560	30159	11780	3690	0	3690	1441	55	69495	190	3202	488	3
5		200	2772	13860	730	140	870	4350	311	3373	9	865	5	4
0		320	0	0	0	0	0	0	0	9844	27	73	17	5
0		1920	0	0	0	0	0	0	0	18001	49	585	62	6
0		960	16137	16809	790	0	790	823	21	23426	64	688	102	7
0		320	0	0	0	0	0	0	0	55350	152	213	194	8
0		640	0	0	0	0	0	0	0	33359	91	293	131	9
0		2240	27446	12252	3730	0	3730	1665	42	306181	839	1650	2080	10
0		1280	12165	9503	2220	0	2220	1734	50	123211	338	1067	1153	11
0		960	1966	2047	260	0	260	271	23	5485	15	242	18	12
0		1000	24637	24637	450	0	450	450	12	6693	18	415	35	13
0		480	10650	22187	670	0	670	1396	63	19981	55	501	169	14
0		360	3026	8405	900	0	900	2500	125	35796	98	695	205	15
28		16000	223878	13992	69460	62690	132150	8259	826	103464	283	132051	99	16
0		640	8372	13081	3100	0	3100	4844	220	19234	53	2953	147	17
0		320	4346	13581	1200	0	1200	3750	221	12542	34	1163	37	18
1		1220	20822	17067	6980	210	7190	5893	268	27879	76	6899	291	19
0		480	6687	13931	250	0	250	521	33	10365	28	117	133	20
22		360	3713	10313	980	820	1800	5000	333	22812	62	1715	85	21
0		320	405	1265	190	0	190	594	40	4362	12	179	11	22
0		640	1956	3056	410	0	410	641	49	9663	26	397	13	23
0		3760	75774	20152	11240	0	11240	2989	93	102948	282	10602	638	24
0		680	4387	6451	230	0	230	338	34	5279	14	223	7	25
0		480	6120	12750	2700	0	2700	5625	281	142367	390	1915	785	26
0		1760	11703	6649	1780	0	1780	1011	25	44582	122	1581	199	27
0		1280	7594	5932	2930	0	2930	2289	114	86794	238	2593	337	28
0		640	0	0	0	0	0	0	0	10255	28	215	38	29
0		640	0	0	0	0	0	0	0	45298	124	277	228	30
0		2240	31628	14119	3010	0	3010	1344	45	47469	130	2894	116	31
0		640	0	0	0	0	0	0	0	14259	39	259	191	32
11		16640	489478	29415	48760	52810	101570	6104	122	1307663	3583	85731	15839	33
0		2260	29868	13215	16730	0	16730	7403	296	146526	401	15282	1448	34
0		640	2118	3309	620	0	620	969	21	10507	29	550	70	35
0		320	3339	10434	780	0	780	2438	42	9152	25	714	66	36
5		1480	90551	61183	14370	4530	18900	12770	250	26546	73	18785	115	37
0		1120	0	0	0	0	0	0	0	56960	156	829	433	38
0		640	0	0	0	0	0	0	0	15315	42	160	27	39
0		320	0	0	0	0	0	0	0	23161	63	78	27	40
0		960	0	0	0	0	0	0	0	42714	117	676	155	41
0		160	0	0	0	0	0	0	0	5682	16	85	6	42
0		960	2267	2361	1000	0	1000	1042	104	32385	89	716	284	43
0		480	6059	12622	250	0	250	521	17	20267	56	187	63	44
0		2240	39432	17603	3120	0	3120	1393	44	88668	243	2750	370	45
0		640	6490	10140	250	0	250	391	39	7339	20	210	40	46
0		640	5149	8045	590	0	590	922	71	4708	13	579	11	47
0		800	5624	7030	2320	0	2320	2900	153	56429	155	1930	390	48
0		960	7034	7327	400	0	400	417	25	15466	42	315	85	49
0		320	0	0	0	0	0	0	0	27906	76	149	163	50
0		160	0	0	0	0	0	0	0	9820	27	79	45	51
0		1600	26599	16624	2650	0	2650	1656	110	14634	40	2617	33	52
0		960	7041	7334	1640	0	1640	1708	85	25049	69	1488	152	53
0		960	3909	4071	1260	0	1260	1313	164	39173	107	1129	131	54
0		2240	56054	25024	3000	0	3000	1339	33	54668	150	2612	388	55
6		49000	612063	12491	130920	36720	167640	3421	190	479121	1313	166655	985	56
0		1280	13770	10757	830	0	830	648	29	14390	39	642	188	57
0		640	3227	5042	400	0	400	625	63	33089	91	153	247	58
0		640	0	0	0	0	0	0	0	27751	76	1019	215	59
0		2240	13066	5833	2460	0	2460	1098	44	51440	141	2055	405	60
0		1280	0	0	0	0	0	0	0	55375	152	697	349	61
0		640	0	0	0	0	0	0	0	15779	43	299	63	62
0		200	2281	11405	220	0	220	1100	92	6697	18	201	19	63
0		160	0	0	0	0	0	0	0	4376	12	58	5	64
0		1600	0	0	0	0	0	0	0	54843	150	1584	370	65
5		2960	31996	10809	5130	1600	6730	2274	60	28361	78	6589	141	66

SUMMARY OF PRODU

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR %	
											PRIM.	SECD.
67	Eagle	Duperow/Bakken	Richland	1980	10696	40.0	0.00	24	0	0	0	0
68	Eagle	Madison	Richland	1977	8900	32.0	1.22	15	9	35	10	0
69	Elk Basin	Frontier	Carbon	1915	1400	28.9	0.00	0	0	0	0	0
70	Elk Basin	Madison	Carbon	1942	5300	28.0	1.12	224	12	9	34	0
71	Elk Basin	Tensleep	Carbon	1942	5000	29.0	1.16	124	11	10	24	0
72	Elk Basin, NW	Madison/Tensleep	Carbon	1964	6000	37.0	1.15	27	12	22	4	3
73	Enid, North	Red River	Richland	1979	11800	47.0	1.75	8	7	34	29	0
74	Fairview	Madison	Richland	1981	9520	34.0	1.60	45	4	51	16	0
75	Fairview Non Unit	Red River	Richland	1965	12700	47.0	1.70	35	11	28	22	0
76	Fairview NW Unit	Red River	Richland	1965	12700	47.7	0.00	0	0	0	0	0
77	Fairview, East	Madison	Richland	1994	9157	0.0	0.00	30	0	0	0	0
78	Fairview, East	Winnipegosis	Richland	1990	11590	36.8	0.00	7	8	30	0	0
79	Fairview, West	Madison	Richland	1980	9200	37.0	0.00	60	3	0	0	0
80	Fishhook	Red River	Sheridan	1980	11200	41.0	1.28	10	10	31	20	0
81	Flat Coulee Unit	Swift	Liberty	1933	2900	37.0	1.10	18	21	35	13	0
82	Flat Lake	Ratcliffe	Sheridan	1964	6500	33.0	1.26	14	15	45	26	0
83	Flat Lake, East	Madison	Sheridan	1984	6523	28.0	0.00	0	0	0	0	0
84	Fort Gilbert	Madison	Richland	1981	9200	35.0	1.30	30	6	55	9	0
85	Fort Gilbert	Red River	Richland	1970	12500	48.0	1.89	42	12	20	7	0
86	Four Mile Creek	Red River	Richland	1975	12500	47.0	1.50	35	15	35	8	0
87	Four Mile Creek, W.	Red River	Richland	1976	12500	45.0	1.30	15	13	40	13	0
88	Fred & George Creek	Sunburst	Toole	1963	2600	39.0	1.20	31	27	30	10	14
89	Frog Coulee	Red River	Richland	1979	11000	49.0	1.42	15	18	35	9	0
90	Gas City	Red River/Madison	Dawson	1955	8900	38.0	1.28	25	12	35	28	5
91	Girard	Red River	Richland	1985	11850	43.6	0.00	8	0	9	0	0
92	Glendive	Siluro/Ord.	Dawson	1952	8900	38.0	1.24	147	8	35	13	0
93	Goose Lake	Ratcliffe	Sheridan	1962	7000	34.0	1.20	40	16	55	5	3
94	Goose Lake	Red River	Sheridan	1980	11063	0.0	0.00	0	0	0	0	0
95	Goose Lake, West	Red River	Sheridan	1981	11500	39.0	0.00	29	0	0	0	0
96	Gossett	Red River	Richland	1983	12331	44.6	0.00	11	0	0	0	0
97	Gray Blanket	Tensleep	Big Horn	1991	6115	22.0	1.05	9	18	18	17	0
98	Green Coulee	Red River	Sheridan	1981	11100	32.0	1.40	18	15	56	5	0
99	Gunsight	Madison	Roosevelt	1980	9550	36.0	0.00	0	0	0	0	0
100	Hay Creek	Siluro/Ord.	Richland	1969	12600	46.0	1.90	53	12	30	9	0
101	Hiawatha	Tyler	Musselshell	1967	5000	33.0	1.15	34	12	25	21	0
102	High Five	Tyler/Stensvad	Rosebud	1976	5600	33.0	1.15	20	20	0	12	0
103	Howard Coulee	Tyler	Musselshell	1974	3498	31.0	0.00	0	0	0	0	0
104	Intake II	Ratcliffe	Richland	1982	9200	32.3	0.00	10	13	43	0	0
105	Ivanhoe	Morrison	Musselshell	1960	4135	33.0	1.10	11	15	40	7	0
106	Ivanhoe	Tyler	Musselshell	1956	4100	33.0	1.08	29	15	20	31	0
107	Jim Coulee Unit	Tyler	Musselshell	1971	3700	33.0	1.10	37	15	33	3	6
108	Katy Lake	Red River	Sheridan	1984	11523	0.0	0.00	11	0	0	0	0
109	Katy Lake, North	Mission Canyon	Sheridan	1981	8056	35.0	1.34	18	18	57	29	0
110	Katy Lake, North	Nesson	Sheridan	1981	7798	34.0	1.50	20	12	31	8	0
111	Katy Lake, North	Red River	Sheridan	1979	11300	46.0	1.42	19	15	30	26	0
112	Keg Coulee Tyler SU	Tyler	Musselshell	1960	4600	33.0	1.00	19	14	32	26	3
113	Kevin East Nisku Oil	Nisku	Toole	1984	3000	39.0	1.10	7	9	30	43	0
114	Kevin Sunburst	Total Production	Toole	1922	1500	32.0	1.08	7	20	35	23	3
115	Kincheloe Ranch, W.	Tyler Non Unit	Rosebud	1980	5344	38.0	0.00	18	0	0	0	0
116	Kincheloe Ranch, W.	Tyler Unit	Rosebud	1979	5500	32.1	1.10	8	13	40	89	0
117	Landslide Butte	Madison/Sun River	Glacier	1967	4700	41.0	0.00	24	0	0	0	0
118	Leary	Muddy	Powder River	1969	5800	41.0	1.15	7	17	33	32	0
119	Little Beaver Unit	Red River	Fallon	1952	8300	29.0	1.29	37	12	35	5	10
120	Little Beaver, East	Mission Canyon	Fallon	1993	6772	31.5	0.00	4	0	0	0	0
121	Little Beaver, East	Red River	Fallon	1954	8300	30.0	1.50	24	13	35	37	0
122	Little Wall Creek	Tyler/Stensvad	Musselshell	1970	3700	33.0	1.10	40	15	33	19	0
123	Lodge Grass	Tensleep	Big Horn	1964	6520	22.0	1.16	15	15	34	6	0
124	Lone Butte	Red River	Richland	1974	12544	45.0	1.70	14	11	30	16	0
125	Lonetree Creek	Red River/Interlake	Richland	1970	12500	47.0	1.86	19	11	30	26	0
126	Long Creek, West	Nisku	Roosevelt	1977	7700	39.0	1.25	24	16	20	17	0
127	Lookout Butte	Red River/Madison	Fallon	1961	8900	33.0	1.15	15	15	25	3	19
128	Lookout Butte, East	Red River	Fallon	1984	9300	31.3	0.00	0	0	0	0	0
129	Lowell	Red River	Sheridan	1979	11300	35.0	0.00	7	8	45	0	0
130	Lustre	Madison	Valley	1982	7200	33.0	1.19	27	16	45	5	0
131	McCabe	Ratcliffe	Roosevelt	1973	8700	37.0	1.50	20	13	40	7	0

PRODUCING OIL FIELDS — 1996

RECOVERY ROR %	PROV- DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1996 PRODUCTION		CUMUL. PROD. 1-96 (M BBLs)	RE- SERVES (M BBLs)	LINE NO.
		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ ACRE	BBLs/ ACRE FT.	BBLs	BOPD			
0	320	0	0	0	0	0	0	0	4722	13	162	5	67
0	3040	16963	5579	1640	0	1640	539	36	32153	88	1580	60	68
0	520	0	0	0	0	0	0	0	9787	27	1737	7	69
0	1080	182989	169434	62700	0	62700	58056	259	238702	654	59135	3565	70
0	1400	114941	82100	27610	0	27610	19721	159	254288	697	24761	2849	71
3	2080	35461	17048	1510	1060	2570	1236	46	62295	171	2223	347	72
0	960	1573	1638	460	0	460	479	60	14309	39	386	74	73
0	960	4106	4277	640	0	640	667	15	21187	58	594	46	74
0	2880	36432	12650	8060	0	8060	2799	80	46242	127	7885	175	75
0	2240	0	0	0	0	0	0	0	48793	134	685	202	76
0	320	0	0	0	0	0	0	0	7591	21	15	20	77
0	320	0	0	0	0	0	0	0	8657	24	54	22	78
0	800	0	0	0	0	0	0	0	60744	166	375	157	79
0	1280	5353	4182	1060	0	1060	828	83	14326	39	986	74	80
0	640	11090	17328	1420	0	1420	2219	123	57405	157	971	449	81
0	9600	68270	7111	17570	0	17570	1830	131	155827	427	16415	1155	82
0	160	0	0	0	0	0	0	0	10951	30	132	202	83
0	2240	10828	4833	960	0	960	429	14	18828	52	910	50	84
0	1280	21185	16550	1500	0	1500	1172	28	10591	29	1479	21	85
0	320	5648	17650	460	0	460	1438	41	7548	21	414	46	86
0	640	4469	6982	600	0	600	938	63	24106	66	404	196	87
14	1480	56060	37878	5682	7848	13530	9142	295	34301	94	13354	176	88
0	320	3068	9587	290	0	290	906	60	15043	41	239	51	89
5	2800	33093	11818	9410	1650	11060	3950	158	68965	189	10411	649	90
0	320	0	0	0	0	0	0	0	17877	49	133	201	91
0	2400	114778	47824	15020	0	15020	6258	43	115408	316	13679	1341	92
3	6880	128100	18619	5800	3840	9640	1401	35	73477	201	9370	270	93
0	640	0	0	0	0	0	0	0	38844	106	325	175	94
0	960	0	0	0	0	0	0	0	12973	36	607	115	95
0	640	0	0	0	0	0	0	0	6486	18	258	11	96
0	160	1570	9812	260	0	260	1625	181	22101	61	185	75	97
0	640	4213	6582	210	0	210	328	18	4111	11	202	8	98
0	480	0	0	0	0	0	0	0	16966	46	334	96	99
0	960	17451	18178	1550	0	1550	1615	30	40154	110	1210	340	100
0	400	8257	20642	1700	0	1700	4250	125	10448	29	1649	51	101
0	960	25905	26984	3180	0	3180	3313	166	81143	222	2767	413	102
0	160	0	0	0	0	0	0	0	5648	15	187	40	103
0	320	0	0	0	0	0	0	0	17653	48	189	79	104
0	80	559	6987	40	0	40	500	45	2159	6	25	15	105
0	600	14999	24998	4720	0	4720	7867	271	22068	60	4594	126	106
6	1920	50353	26225	1380	2880	4260	2219	60	22285	61	4141	119	107
0	320	0	0	0	0	0	0	0	7634	21	192	52	108
0	800	6453	8066	1850	0	1850	2313	129	43869	120	1416	434	109
0	160	1370	8562	110	0	110	688	34	4076	11	92	18	110
0	1920	20927	10899	5440	0	5440	2833	149	119073	326	3814	1626	111
3	1520	21330	14032	5550	640	6190	4072	214	8242	23	6178	12	112
0	560	1742	3110	750	0	750	1339	191	38296	105	541	209	113
3	48720	318475	6536	72790	7970	80760	1658	237	226448	620	79629	1131	114
0	80	0	0	0	0	0	0	0	4721	13	193	17	115
0	200	880	4400	780	0	780	3900	488	8379	23	760	20	116
0	520	0	0	0	0	0	0	0	36509	100	558	140	117
0	400	2151	5377	680	0	680	1700	243	5643	15	673	7	118
10	4960	86087	17356	4660	8850	13510	2724	74	224657	615	11983	1527	119
0	160	0	0	0	0	0	0	0	6678	18	49	7	120
0	1760	18460	10488	6760	0	6760	3841	160	87996	241	6283	477	121
0	1120	31754	28351	6000	0	6000	5357	134	118858	326	4946	1054	122
0	640	6356	9931	380	0	380	594	40	6779	19	360	20	123
0	960	4723	4919	750	0	750	781	56	14535	40	694	56	124
0	3200	19527	6102	5140	0	5140	1606	85	192356	527	4136	1004	125
0	320	6101	19065	1050	0	1050	3281	137	20653	57	794	256	126
19	13120	149358	11383	4730	28380	33110	2524	168	540103	1480	27176	5934	127
0	15680	0	0	0	0	0	0	0	497492	1363	2640	1923	128
0	960	0	0	0	0	0	0	0	8434	23	118	35	129
0	8000	123919	15489	6190	0	6190	774	29	143237	392	5460	730	130
0	480	3873	8068	270	0	270	563	28	4916	13	265	5	131

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.	SECND.
132	Medicine Lake	Devonian	Sheridan	1980	10300	44.0	0.00	11	0	49	0	0
133	Medicine Lake	Siluro/Ord.	Sheridan	1984	11319	43.5	1.55	38	9	35	10	0
134	Melstone	Tyler	Musselshell	1948	4400	34.0	1.09	25	15	30	27	0
135	Midfork	Charles	Valley	1985	7174	38.3	0.00	0	0	0	0	0
136	Midfork	Nisku	Valley	1990	7200	45.6	0.00	4	0	0	0	0
137	Missouri Breaks	Nisku	Roosevelt	1994	10044	41.9	0.00	4	0	0	0	0
138	Monarch Non Unit	Siluro/Ord.	Fallon	1958	8400	0.0	0.00	0	0	0	0	0
139	Monarch Unit	Siluro/Ord.	Fallon	1958	8400	32.0	1.00	31	7	35	2	4
140	Mondak West	Devonian	Richland	1979	10600	41.4	1.50	8	10	25	29	0
141	Mondak West	Madison	Richland	1976	9200	30.0	1.30	100	4	60	6	0
142	Mondak West	Siluro/Ord.	Richland	1976	12200	48.0	1.64	45	10	43	16	0
143	Mustang	Bakken	Richland	1994	10565	44.0	0.00	0	0	0	0	0
144	Mustang	Madison	Richland	1988	9200	33.7	0.00	0	0	0	0	0
145	Mustang	Red River	Richland	1979	12500	47.0	1.41	17	12	0	7	0
146	Neisser Creek	Red River	Sheridan	1982	10900	46.0	2.00	15	17	21	29	0
147	Nielsen Coulee	Madison	Daniels	1992	6266	39.5	0.00	15	12	0	0	0
148	Nohly	Nisku	Richland	1983	10700	38.0	1.30	15	11	39	74	0
149	Nohly	Red River	Richland	1972	12900	46.0	1.43	27	10	40	24	0
150	Nohly Area	Ratcliffe	Richland	1984	9444	32.0	1.23	17	10	57	25	0
151	North Fork	Madison	Richland	1977	9500	35.0	1.37	18	3	70	50	0
152	Ollie	Red River	Fallon	1980	10200	36.0	0.00	56	10	35	0	0
153	Otis Creek	Ratcliffe	Richland	1993	8900	35.0	0.00	0	0	0	0	0
154	Otis Creek, South	Ratcliffe	Richland	1994	0	0.0	0.00	0	0	0	0	0
155	Outlook	Nisku	Sheridan	1958	9170	40.0	0.00	20	0	0	0	0
156	Outlook, Southwest	Red River	Sheridan	1994	8886	0.0	0.00	10	0	0	0	0
157	Outlook, West	Winnipegosis	Sheridan	1958	9100	39.0	1.12	16	8	30	34	0
158	Oxbow	Red River	Roosevelt	1978	12600	47.0	1.50	18	12	45	28	0
159	Oxbow Area	Nisku	Roosevelt	1993	10653	38.8	1.36	6	22	25	84	0
160	Palomino	Nisku	Roosevelt	1980	7500	48.0	1.15	39	16	20	12	0
161	Pennel	Siluro/Ord.	Fallon	1955	7000	31.0	1.10	38	3	30	67	11
162	Pine	Red River	Fallon/Wibaux	1952	8400	34.0	1.17	32	12	30	18	23
163	Pondera	Madison/Sun River	Pondera	1927	2100	34.0	1.20	15	16	31	16	0
164	Poplar, East	Heath	Roosevelt	1969	4900	38.0	1.10	8	11	50	30	0
165	Poplar, East	Madison	Roosevelt	1952	5500	40.0	1.10	25	11	30	19	0
166	Poplar, Northwest	Madison	Roosevelt	1952	6300	40.0	1.10	16	10	45	14	0
167	Pronghorn	Red River	Sheridan	1983	10580	40.0	1.30	17	13	54	5	0
168	Putnam	Interlake/Red River	Richland	1969	11900	41.0	1.75	16	9	30	19	0
169	Putnam	Madison	Richland	1978	9500	34.0	1.42	92	6	35	1	0
170	Rabbit Hills	Sawtooth	Blaine	1972	4000	21.0	1.15	12	18	16	28	0
171	Rabbit Hills, SW	Sawtooth	Blaine	1972	5540	21.0	0.00	16	0	0	0	0
172	Ragged Point	Tyler	Musselshell	1956	3600	32.0	1.11	13	14	32	24	10
173	Rattler Butte	Tyler	Rosebud	1975	5300	35.0	1.10	25	12	60	63	0
174	Rattlesnake Butte	Cat Creek/Amsden	Petroleum	1984	2732	27.7	1.10	26	21	70	17	0
175	Raymond	Duperow	Sheridan	1979	8360	40.0	1.15	40	7	15	7	0
176	Raymond	Nisku	Sheridan	1972	7900	50.0	1.40	22	9	0	14	0
177	Raymond	Red River	Sheridan	1972	10000	39.0	1.42	33	12	10	6	0
178	Raymond	Winnipegosis	Sheridan	1972	9300	42.0	1.17	40	5	27	20	0
179	Reagan	Madison	Glacier	1947	3700	38.0	1.10	11	12	30	46	14
180	Red Bank	Madison	Roosevelt	1980	13000	31.0	2.00	16	14	11	5	0
181	Red Bank, South	Red River	Roosevelt	1981	13000	44.0	1.60	17	17	30	12	0
182	Red Creek Unit	Cut Bank/Madison	Glacier	1958	2600	31.0	1.08	20	19	30	24	2
183	Red Water, East	Red River	Richland	1983	12025	47.0	1.40	20	11	40	13	0
184	Reserve	Red River	Sheridan	1966	11100	39.0	1.30	18	6	30	29	0
185	Ridgelawn	Duperow	Richland	1984	11314	46.6	1.60	27	10	20	7	0
186	Ridgelawn	Madison	Richland	1977	8900	35.0	1.18	54	3	50	15	0
187	Ridgelawn	Red River	Richland	1980	12500	49.0	1.90	15	12	35	40	0
188	Ridgelawn, North	Madison	Richland	1991	12038	36.0	0.00	0	0	0	0	0
189	RipRap Coulee	Ratcliffe	Roosevelt	1975	8800	34.0	1.30	14	14	45	17	0
190	Rocky Point	Red River	Roosevelt	1978	11800	49.0	1.80	19	14	47	15	0
191	Royals	Dawson Bay	Dawson	1980	11700	43.0	1.93	46	5	32	18	0
192	Rush Mountain	Winnipegosis/Gunton	Sheridan	1968	12000	39.0	1.62	14	10	33	53	0
193	Salt Lake	Ratcliffe	Sheridan	1992	6520	33.7	0.00	36	0	92	0	0
194	Salt Lake	Red River/Gunton	Sheridan	1987	10554	34.7	1.30	13	10	25	29	0
195	Second Creek	Madison	Richland	1994	0	0.0	0.00	0	0	0	0	0
196	Second Creek	Red River	Richland	1972	12700	46.0	1.50	30	7	40	13	0

PRODUCING OIL FIELDS — 1996

RECOVERY FACTOR %	PROV. DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1996 PRODUCTION		CUMUL. PROD. 1-96 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
0	480	0	0	0	0	0	0	0	14601	40	231	44	132
0	1600	17802	11126	1760	0	1760	1100	29	47699	131	1549	211	133
0	800	14947	18683	4100	0	4100	5125	205	39923	109	3904	196	134
0	1120	0	0	0	0	0	0	0	52182	143	447	101	135
0	160	0	0	0	0	0	0	0	6614	18	54	21	136
0	160	0	0	0	0	0	0	0	15697	43	49	24	137
0	2720	0	0	0	0	0	0	0	168902	463	1194	683	138
4	2720	29764	10942	560	1190	1750	643	21	26604	73	1653	97	139
0	320	993	3103	290	0	290	906	113	13355	37	251	39	140
0	10880	103886	9548	5720	0	5720	526	5	73800	202	5392	328	141
0	3200	38828	12133	6370	0	6370	1991	44	161966	444	5102	1268	142
0	320	0	0	0	0	0	0	0	22737	62	43	29	143
0	160	0	0	0	0	0	0	0	5948	16	64	27	144
0	960	10775	11223	800	0	800	833	49	24828	68	698	102	145
0	320	2501	7815	720	0	720	2250	150	67446	185	381	339	146
0	320	0	0	0	0	0	0	0	17290	47	202	7	147
0	800	4805	6006	3570	0	3570	4463	298	92605	254	3237	333	148
0	960	8437	8788	1990	0	1990	2073	77	25555	70	1858	132	149
0	1920	8852	4610	2230	0	2230	1161	68	169868	465	1473	757	150
0	960	881	917	440	0	440	458	25	12421	34	404	36	151
0	160	0	0	0	0	0	0	0	3903	11	156	10	152
0	160	0	0	0	0	0	0	0	7779	21	35	27	153
0	160	0	0	0	0	0	0	0	5905	16	18	21	154
0	800	0	0	0	0	0	0	0	29498	81	131	30	155
0	160	0	0	0	0	0	0	0	13442	37	134	20	156
0	480	2979	6206	1010	0	1010	2104	132	19343	53	919	91	157
0	320	1966	6143	550	0	550	1719	96	13130	36	485	65	158
0	160	904	5650	760	0	760	4750	792	82441	226	373	387	159
0	800	26941	33676	3150	0	3150	3938	101	107334	294	2453	697	160
11	28960	162989	5628	109390	18000	127390	4399	116	2163591	5928	92512	34878	161
23	16480	293731	17823	53680	67500	121180	7353	230	845913	2318	113808	7372	162
0	15600	167014	10706	27330	0	27330	1752	117	205271	562	27087	243	163
0	480	1490	3104	440	0	440	917	115	9266	25	354	86	164
0	18070	245327	13576	46450	0	46450	2571	103	115968	318	45752	698	165
0	5440	33763	6206	4700	0	4700	864	54	86390	237	4106	594	166
0	1280	7765	6066	350	0	350	273	16	5988	16	324	26	167
0	5440	24309	4468	4710	0	4710	866	54	30353	83	4669	41	168
0	1600	31364	19602	160	0	160	100	1	34974	96	98	62	169
0	800	9792	12240	2710	0	2710	3388	282	153020	419	1802	908	170
0	320	0	0	0	0	0	0	0	17969	49	66	58	171
10	1440	12456	8650	3040	1250	4290	2979	229	28954	79	4206	84	172
0	240	2031	8462	1270	0	1270	5292	212	48446	133	1127	143	173
0	320	3697	11553	630	0	630	1969	76	15484	42	600	30	174
0	160	2569	16056	170	0	170	1063	27	8213	23	144	26	175
0	640	7022	10971	950	0	950	1484	67	15595	43	912	38	176
0	960	18693	19471	1120	0	1120	1167	35	27335	75	1039	81	177
0	960	9294	9681	1870	0	1870	1948	49	71784	197	1678	192	178
14	2600	16943	6516	7740	2300	10040	3862	351	104939	288	9494	546	179
0	5120	39594	7733	1830	0	1830	357	22	52940	145	1703	127	180
0	320	3139	9809	390	0	390	1219	72	7801	21	376	14	181
2	1410	26942	19107	6440	540	6980	4950	248	87090	239	6683	297	182
0	320	2341	7315	300	0	300	938	47	7193	20	270	30	183
0	1600	7219	4511	2080	0	2080	1300	72	66189	181	1866	214	184
0	1600	16757	10473	1250	0	1250	781	29	94336	258	815	435	185
0	4480	23858	5325	3580	0	3580	799	15	54075	148	3371	209	186
0	1600	7644	4777	3040	0	3040	1900	127	44811	123	2737	303	187
0	320	0	0	0	0	0	0	0	22262	61	164	108	188
0	800	5147	6433	890	0	890	1113	80	25399	70	761	129	189
0	640	3889	6076	600	0	600	938	49	10898	30	548	52	190
0	320	2012	6287	360	0	360	1125	24	6996	19	343	17	191
0	320	1437	4490	760	0	760	2375	170	37271	102	684	76	192
0	160	0	0	0	0	0	0	0	23305	64	154	112	193
0	480	2793	5818	820	0	820	1708	131	35038	96	539	281	194
0	320	0	0	0	0	0	0	0	5497	15	15	29	195
0	1600	10427	6516	1400	0	1400	875	29	15636	43	1345	55	196

PRODUCING OIL FIELDS — 1996

WELL ID	PROV- DUCTIVE AREA ACRES	OOP		ULTIMATE RECOVERY					1996 PRODUCTION		CUMUL. PROD. 1-96 (M BBLs)	RE- SERVES (M BBLs)	LINE NO.
		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ ACRE	BBLs/ ACRE FT.	BBLs	BOPD			
0	800	0	0	0	0	0	0	0	49628	136	429	85	197
0	7040	50415	7161	3140	0	3140	446	7	27836	76	3054	86	198
0	640	5301	8282	430	0	430	672	22	10435	29	361	69	199
0	2560	27337	10678	4410	0	4410	1723	43	92400	253	3829	581	200
0	1920	21705	11304	1880	0	1880	979	58	40778	112	1656	224	201
0	1920	29493	15360	600	0	600	313	7	22587	62	586	14	202
0	4480	68817	15360	4340	0	4340	969	22	83099	228	3951	389	203
0	1240	17866	14408	3280	0	3280	2645	132	38138	104	2835	445	204
0	120	1335	11125	240	0	240	2000	133	6800	19	190	50	205
0	160	170	1062	90	0	90	563	94	5739	16	42	48	206
0	960	33589	34988	310	0	310	323	8	12883	35	250	60	207
0	480	2701	5627	360	0	360	750	44	16786	46	281	79	208
0	320	0	0	0	0	0	0	0	29956	82	82	72	209
0	320	0	0	0	0	0	0	0	3567	10	60	8	210
0	640	7277	11370	520	0	520	813	20	11711	32	354	166	211
14	960	17824	18566	7820	2500	10320	10750	430	14655	40	10251	69	212
7	5520	136779	24778	36710	9540	46250	8379	279	194125	532	45474	776	213
0	160	0	0	0	0	0	0	0	7496	21	40	39	214
0	1760	9467	5378	760	0	760	432	27	12637	35	735	25	215
0	320	0	0	0	0	0	0	0	23873	65	125	105	216
0	640	0	0	0	0	0	0	0	17140	47	467	99	217
0	1280	18487	14442	8620	0	8620	6734	269	45138	124	8349	271	218
0	320	4913	15353	2060	0	2060	6438	215	3451	9	2046	14	219
0	480	1787	3722	960	0	960	2000	250	7340	20	881	79	220
1	960	10569	11009	789	71	860	896	53	16677	46	756	104	221
0	960	0	0	0	0	0	0	0	24650	68	720	84	222
0	3360	19811	5896	2920	0	2920	869	22	106030	290	2325	595	223
0	2240	20071	8960	1840	0	1840	821	34	21290	58	1767	73	224
0	800	8689	10861	4510	0	4510	5638	403	73875	202	3577	933	225
0	480	3527	7347	540	0	540	1125	75	39405	108	396	144	226
0	960	2749	2863	1350	0	1350	1406	234	28779	79	1221	129	227
0	320	2056	6425	990	0	990	3094	258	7094	19	982	8	228
0	120	0	0	0	0	0	0	0	10707	29	334	38	229
0	160	742	4637	410	0	410	2563	214	4252	12	400	10	230
0	640	5809	9076	1760	0	1760	2750	229	125332	343	1318	442	231
26	240	2559	10662	600	670	1270	5292	441	19709	54	979	291	232
0	2080	7664	3684	4840	0	4840	2327	212	11159	31	4815	25	233
0	960	5107	5319	910	0	910	948	63	6343	17	886	24	234
0	560	7603	13576	1380	0	1380	2464	99	13977	38	1281	99	235
0	640	2979	4654	850	0	850	1328	221	22636	62	679	171	236
									519698	1421		67	237
									16,151,607	44,130		124,383	238

ERA	PERIOD	SOUTHWEST MONTANA (GENERALIZED)	CRAZY MOUNTAINS BASIN	CENTRAL MONTANA	BIG HORN BASIN		
CENOZOIC	TERTIARY	SIXMILE CREEK FM BOZEMAN GP RENOVA FM SPHINX CGL	TONGUE RIVER MBR LEBO MBR TULLOCK MBR			TONQUE RIVER MBR LEBO MBR TULLOCK MBR	
		BEAVERHEAD CGL MONTANA GP UNDIVIDED FAGLE FM TELEGRAPH CK CODY SH FRONTIER FM MOWRY SH MUDDY SS THERMOPOLIS SH (RUSTY BED MBR) KOOTENAI FM	LIVINGSTON GP HELL CREEK FM LENNELP FM BEARPAW FM JUDITH RIVER FM CLAGGET FM FAGLE FM (VIRGELLE MBR) TELEGRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENKOHN FM BELL F FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM	HELL CREEK FM FOX HILLS FM REARPAW FM JUDITH RIVER FM CLAGGET FM FAGLE FM (VIRGELLE SS) TELEGRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENHORN FM RIFLE FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM 2nd CAT CREEK (3rd CAT CHLEK)	HELL CREEK FM LANCE FM LENNELP FM MEETLITSE FM JUDITH RIVER FM PARKMAN SS CLAGGET FM LACLE FM (VIRGELLE SS) TELEGRAPH CK FM CODY FM TORCHLIGHT SS FRONTIER FM PLAY SS MOWRY FM MUDDY SST SKULL CK SH DAKOTA CK DAKOTA FM GREYBULL SS KOOTENAI FM LAKOTA FM		
MESOZOIC	CRETACEOUS	ELK BASIN VOLCANICS MONTANA GP UNDIVIDED COLORADO GP UNDIVIDED	FRONTIER FM MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM	FRONTIER FM MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM 2nd CAT CREEK (3rd CAT CHLEK)	FRONTIER FM MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM 2nd CAT CREEK (3rd CAT CHLEK)	FRONTIER FM MOWRY FM MUDDY SST SKULL CK SH DAKOTA CK DAKOTA FM GREYBULL SS KOOTENAI FM LAKOTA FM	
			MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM	MORRISON FM SWIFT FM RIERDON FM PIPEL FM	MORRISON FM SWIFT FM RIERDON FM PIPEL FM	MORRISON FM SWIFT FM RIERDON FM PIPEL FM	
			THAYNES FM WOODSIDE FM DINWOODY FM	CHUGWATER FM DINWOODY FM	CHUGWATER FM DINWOODY FM	CHUGWATER FM DINWOODY FM	
			SHEDHORN FM PARK CITY MBR	PHOSPHORIA FM	PHOSPHORIA FM	PHOSPHORIA FM	
			QUADRANT FM AMSDEN GP	QUADRANT FM AMSDEN GP	TNSLEEP FM AMSDEN GP (ALASKA BENCH) TYLER FM	TNSLEEP FM AMSDEN FM DARWIN SS	
PALEOZOIC	MISSISSIPPIAN	BIG SNOWY GP	MISSION CANYON LS LODGEPOLE LS	MISSION CANYON LS LODGEPOLE LS	MISSION CANYON LS LODGEPOLE LS BAKKEN FM		
			SAPPINGTON MBR THREE FORKS FM JEFFERSON FM MAYWOOD FM	SAPPINGTON MBR THREE FORKS FM BIRDBEAR FM? JEFFERSON FM MAYWOOD FM	SAPPINGTON MBR THREE FORKS FM BIRDBEAR FM? JEFFERSON FM MAYWOOD FM	THREE FORKS FM JEFFERSON FM MAYWOOD FM	
PALEOZOIC	DEVONIAN						
PALEOZOIC	SILURIAN						
PALEOZOIC	ORDOVICIAN						
PALEOZOIC	CAMBRIAN	RED LION FM HASMARK FM SILVER HILL FM FLATHEAD SS	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	SNOWY RANGE FM PILGRIM FM PARK SH MEAGHER LS WOLSEY SH FLATHEAD SS	GROVE CK FM GALLATIN LS SNOWY RANGE PILGRIM FM GROS VENTRE GP FLATHEAD SS	
PRECAMBRIAN	PROTEROZOIC	BELT SUPERGROUP	BELT SUPERGROUP	BELT SUPERGROUP	BELT SUPERGROUP		
		ARCHEAN	ARCHEAN	ARCHEAN	ARCHEAN	ARCHEAN	

SOUTHWEST MONTANA (GENERALIZED)

CRAZY MOUNTAINS BASIN

CENTRAL MONTANA

BIG HORN BASIN

PRE-BELT METAMORPHIC AND IGNEOUS ROCKS

PRE-BELT ROCKS

GENERALIZED STRATIGRAPHIC CORRELATION

SHOWING PRODUCING FORMATIONS* • OIL

SOUTH CENTRAL MONTANA		NORTHERN POWDER RIVER BASIN		WILLISTON BASIN	
				FLAXVILLE FM	
		FORT UNION FM WASATCH FM TONGUE RIVER MBR LEBO MBR TULLOCK MBR		FORT UNION FM TONGUE RIVER MBR LEBO MBR TULLOCK MBR	
		HELL CREEK FM FOX HILLS FM BEARPAW FM		HELL CREEK FM FOX HILLS FM BEARPAW FM	
JUDITH RIVER FM	* DRY CREEK, GOLDEN DOME, HAPLEULE	JUDITH RIVER FM (PARKMAN SS)		JUDITH RIVER FM (15' WHILL, SPK)	* CEDAR CK, PLEVNA
CI AGOST FM	* LAKE BASIN & N. RAPELJE	CLAGGLE FM		CLAGGLE FM	
LAGLE FM (VIRGELLE SS)	* DRY CK, GOLDEN DOME, LAKE BASIN & N. HAPLEULE	EAGLE FM (SHANNON SS)	* ASH CK * T. SOOM CK, PUMPKIN CK	EAGLE FM	* CEDAR CK, GASLIGHT PLEVNA, THREE MILE
TELEGRAPH CK FM NIOBRARA FM CARVILLE FM GREENHORN FM BELLE FOURCHE FM	* LAKE BASIN * DRY CK, GOLDEN DOME, LAKE BASIN & N.	TELEGRAPH CK FM NIOBRARA FM CARVILLE FM GREENHORN FM BELLE FOURCHE FM		TELEGRAPH CK FM NIOBRARA FM CARVILLE FM GREENHORN FM BELLE FOURCHE FM	
BIG ELK SS MOWRY FM		MOWRY FM		MOWRY FM	
MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM GREYBULL SS KOOTENAI FM LAKOTA FM	* CROOKED CK, LAUREL, MOSSER * DRY CK & W. GOLDEN DOME * DRY CK	MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM FUSON FM LAKOTA FM	* RICE CK, LEARY, HOUGH CK, WHIGH CK * SF BELT CK, HAMMOND	MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM (FUSON) LAKOTA FM	
MORRISON FM SWIFT FM RIERDON FM PIPER FM		MORRISON FM SUNDANCE FM UPPER MBR LOWER MBR GYPSUM SPRINGS FM		MORRISON FM SWIFT FM RIERDON FM PIPER FM NESSON FM	
CHUGWATER FM DINKWOODY FM		SPEARFISH FM		SPEARFISH FM	
PHOSPHORIA FM		PHOSPHORIA, MINNEKAHTA FM OPECHE FM		MINNEKAHTA FM OPECHE FM	
TENSLEEP FM AMSDEN FM		MINNELUSA FM AMSDEN FM	* LODDGRASS, SOAP CK, E. SOAP CK, SNYDER * SOAP CK	MINNELUSA FM TYLER FM	* EAST POPLAR
CHARLES FM MISSION CANYON LS LODGEPOLE LS		MADISON LS	* SOAP CK	HEATH FM OTTER FM KIBBLEY FM CHAHLEY FM MISSION CANYON LS LODGEPOLE LS BARKER FM	* BAINVILLE, BIG MUDDY CK, BRONSON, BURGET, CABIN CK, CANAL, E. CROCKER SPGS, EAGLE, FAIRVIEW, FLAXVILLE, FT. GILBERT, GAS CITY, GUNDSIGHT, HAY CK, KATY L., LONG BUTTE, LOOKOUT BUTTE, LUSTRE, MEDICINE L., MONARCH, W. MONDAK, NORTH FORK, PERNEL, PINE, PUTNAM, RED BANK, RIDGE LAWN, SECOND CK, SIDNEY, SIOUX PASS, SOUTH FORK, SUNNY HILL, TARGET, THREE BUTTES, VAUX
THREE FORKS FM		THREE FORKS FM		THREE FORKS FM	
JEFFERSON FM		JEFFERSON FM		BIRDBEAR (NISKU) FM DUPELROW FM SOURIS RIVER FM DAWSON BAY FM PRAIRIE EVAPORITE WINNIPEG FM ASHERN	* ANVIL, E. & NE. BENRUD, BLACK DIAMOND, CARVILLE, CHARLIE CK & N., CHESAPEAKE L., COLORED CANYON, COMERTOWN & S., DWYER FLAT L., W. LONG CK, NINEMILE, NORTH FORK, OULOUK, PALOMON, RAYMOND & NE, RED FOX, SALT LAKE, N. SIOUX PASS, SPRING L., STAMPEDE, SUNNY HILL, TWO WATERS, WOODROW, YATES * BLOOMFIELD, LOST CK, SW RICHEY, ROYALS, VAUX * ANVIL, N. BAINVILLE, FAIRVIEW & F., HONKER, MEDICINE L., OTTER CK, OUTLOOK & W., RAYMOND, RESERVE, RUSH MOUNTAIN, SINGLETREE, N. SIOUX PASS, WAKEA
BEARTOOTH BUTTE FM					
LEIGH DOL BIG HORN FM LANDER MBR		INTERLAKE FM STONY MTN FM BIG HORN FM RED RIVER FM WINNIPEG FM		INTERLAKE FM STONY MTN FM GUNTUN MBR STOUGHTON MBR RED RIVER FM WINNIPEG FM	* BAINVILLE, CABIN CK, DEER CK, F. FAIRVIEW, FOX CK, GUNDSIGHT, GOOSE FT., LOOKOUT BUTTE, MEDICINE L., W. MONDAK, PENNEL, PINE, THREE BUTTES, WAKEA, WOODROW
GROVE CK FM GALLATIN LS SNOWY RANGF PLGRM FM GROS VENTRE GP FLATHEAD SS		GROVE CK FM DEADWOOD FM GROS VENTRE GP FLATHEAD SS		DEADWOOD FM	* BAINVILLE, E. & S. BIG MUDDY CK, BRONSON, BRUSH L., BURNS CK, CABIN CK, CANAL, CHARLIE CK, CLAY, & S., COMERTOWN, CULBERTSON, CURTON, DEER CK, FAIRVIEW, FERTILE P., FT. GILBERT, FOUR MILE CK, FOX CK, S. FROD, GAS CITY, GIRARD, GOOSE FT., HAY CK, KATY L., KUGS CK, L. BEAVER, LONE BUTTE, LOWETREE, LOOKOUT BUTTE, MERRY, MONARCH, W. MONDAK, MUSTANG, NEISER CK, NOLLY OULIE, OULOUK, OTS CK, OUTLOOK, OXROW, PARNELL, PINE, PRONGHORN, PUTNAM, RAINBOW, RAYMOND, RED W. WATER, REFUGO, REFUGO, RIDGE LAWN, RIVER BEND, ROCKY POINT, RUSH M., SALT L., SAND CK, SECOND CK, SIDNEY, SIOUX PASS, SOUTH FORK, SPRING L., STAMPEDE, SUNNY HILL, THREE BUTTES, TWO WATERS, VAUX, WAKEA, WINDMILL, WOODROW, WRANGLER, YATES
PRE-BELT ROCKS		PRE-BELT ROCKS		PRE-BELT ROCKS	
SOUTH CENTRAL MONTANA		NORTHERN POWDER RIVER BASIN		WILLISTON BASIN	

*SOME FIELDS OMITTED DUE TO SPACE LIMITATIONS

GENERALIZED STRATIGRAPHIC CORRELATION CHART

SHOWING PRODUCING FORMATIONS* • OIL ✶ GAS

	NORTHERN POWDER RIVER BASIN	WILLISTON BASIN	NORTH CENTRAL MONTANA
		FLAXVILLE FM	FLAXVILLE FM
	WASATCH FM TONGUE RIVER MBR LEBO MBR TULLOCK MBR	TONGUE RIVER MBR LEBO MBR TULLOCK MBR	
	HILL CREEK FM FOX HILLS FM BEARPAW FM	HILL CREEK FM FOX HILLS FM BLARPAW FM	HELL CREEK FM FOX HILLS FM BEARPAW FM
	JUDITH RIVER FM (PARKMAN SS) CLAGGET FM EAGLE FM (SHANNON SS)	JUDITH RIVER FM CLAGGET FM EAGLE FM	JUDITH RIVER FM CLAGGET FM EAGLE FM
	TELEGRAPH CK FM NIOBHARA FM CARLILE FM GREENHORN FM BELLE FOURCHE FM	TELEGRAPH CK FM (1ST WHITE SPK) NIOBHARA FM CARLILE FM GREENHORN FM BELLE FOURCHE FM	TELEGRAPH CK FM (1ST WHITE SPK) NIOBHARA FM CARLILE FM (BOWDOIN SS) GREENHORN FM (WILLIAMS SS) BELLE FOURCHE FM (WISH SCALE SS)
	MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM FUSON FM LAKOTA FM	MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM (FUSON) LAKOTA FM	MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM
	MORRISON FM SUNDANCE FM UPPER MBR SUNDANCE FM LOWER MBR GYPSUM SPRINGS FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM NESSON FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM NESSON FM
	SPEARFISH FM	SPEARFISH FM PINE SALT	
	PHOSPHORIA MINNEKAHTA FM OPFCH FM MINNELUSA FM AMSDEN FM	MINNEKAHTA FM OPECHIE FM MINNELUSA FM TYLER FM	MINNEKAHTA FM OPECHIE FM MINNELUSA FM TYLER FM
	MADISON LS	HEATH FM OTTER FM KIBBLEY FM CHAHUIS FM MISSION CANYON LS LODGEPOLE LS BAKKEN FM THREE FORKS FM THREE FORKS FM BROBEAR (NISKU) FM DUPFROW FM SOURIS RIVER FM DAWSON DAY FM PRAIRIE EVAPORITE WINNEPEG FM ASHERN	CHARLES FM MISSION CANYON LS LODGEPOLE LS BAKKEN FM THREE FORKS FM POTIATCH ANHY BROBEAR (NISKU) FM DUPFROW FM SOURIS RIVER FM
	INTERLAKE FM STONY Mtn FM BIG HORN FM RED RIVER FM WINNEPEG FM GROVE CK FM DEADWOOD FM GROSVENTRE GP FLATHEAD SS	INTERLAKE FM STONY Mtn FM GUNTON MBR STONTEGHTON MBR RED RIVER FM WINNEPEG FM WINNEPEG FM DEADWOOD FM	INTERLAKE FM STONY Mtn FM GUNTON MBR STONTEGHTON MBR RED RIVER FM WINNEPEG FM WINNEPEG FM LIMESON FM FLATHEAD SS
	PRE-BELT ROCKS	PRE-BELT ROCKS	PRE-BELT ROCKS
	NORTHERN POWDER RIVER BASIN	WILLISTON BASIN	NORTH CENTRAL MONTANA

*SOME FIELDS OMITTED DUE TO SPACE LIMITATIONS

		SWEETGRASS ARCH	NORTHERN DISTURBED BELT	PERIOD	ERA
				TERTIARY	CENOZOIC
		WILLOW CK FM ST MARY RIVER FM HORSETHIEF SS BEARPAW FM JUDITH RIVER FM TWO MEDICINE FM EAGLE FM VIRGELLE SS TELEGRAPH CK FM KEVIN SH MBR FERDIG MBR CONE (2ND WHITE SPK) (GREENHORN) FLOWEREE MBR MONTANA GP	WILLOW CK FM ST MARY RIVER FM HORSETHIEF SS TWO BEARPAW FM MEDICINE FM VIRGELLE SS TELEGRAPH CK FM KEVIN SH MBR FERDIG MBR CONE (2ND WHITE SPK) (GREENHORN) FLOWEREE MBR MONTANA GP	UPPER	CRETACEOUS
<p>BROWN'S C & E, BULLWACKER, COAL MINE C., LEROY, RED ROCK, SAWTOOTH MTN., TIGER RIDGE, TWO FORKS</p> <p>BADLANDS, BATTLE CK, BLACK BUTTE, BLACK C, BOWLS, BROWN'S C., & E, BULLWACKER CHAIN LAKES, CHIP CK, COAL C, COAL MINE C., FRESNO, HAYRE, HIGHLINE, LAREDO, LEROY, LOHMAN, RED ROCK, HUDYARD, SAWTOOTH MTN., SHEPARD, TIGER RIDGE, TWO FORKS</p> <p>ASHFIELD, BOWDOIN, LORING, E & W LORING, SWANSON CK, VANDALIA, WHITEWATER & E</p> <p>ASHFIELD, BOWDOIN, COAL MINE C., GORMAN C., LORING & E., SPRING C., SWANSON CK, VANDALIA, WHITEWATER & F., WILD HORSE</p>		<p>ALMA, AMANDA, ARCH APEX, BIG ROCK, BUFFALO FLAT, CUT BANK, DEVON, DRY FORK, DUNKIRK, FITZPATRICK L., FLAT C, FT. CONRAD, GALATA, GRANDVIEW, HARDPAN, HAYSTACK BUTTE, E. KEITH, KEVIN SUNBURST, SW KEVIN, KICKING HORSE, LEDGER, MARIAS RIVER, MINERS C, O'BRIEN'S C, O. D. SHELBY, POLICE C, PRAIRIE DELL, SNOOSE C., SOBIEH UP C., TIBER, TRAIL CK., WHITLASH, WILLIAMS, WILLOW RIDGE</p> <p>S. CONRAD</p> <p>BLACKFOOT, BRADLEY, CUT BANK, DUNKIRK, FLAT C., KEVIN SUNBURST, KICKING HORSE, M. BUTTE, PRAIRIE DELL, W. BUTTE, WHITLASH, WILLOWRIDGE, BRADY, KEVIN SUNBURST, STRAWBERRY CK, WILLOW RIDGE</p> <p>BRADY, KEVIN SUNBURST, STRAWBERRY CK, WILLOW RIDGE</p> <p>AMANDA, ARCH APEX, BLACKFOOT, DUNKIRK, E & SW KEVIN, OLD SHELBY, PRAIRIE DELL, BERTHELOTE, BRADY, S. CONRAD, DUTCH JOHN, FRED & GEORGE, GRABEN C., GYPSY B., KEVIN SUNBURST, PHANTOM & W. W. BUTTE, WHITLASH & W.</p> <p>BLACKFOOT & E., BOHDFR-RED C., CUT BANK, GRABEN C., HLU CK</p>	<p>VAUGHN MBR TAFT HILL MBR FLOOD MBR KOOTENAI FM MT PABLO FM (CUT BANK)</p>	LOWER	
<p>BOWLS, RABBIT HILLS & NE & SW THIRTY MILE</p> <p>CANADIAN C., E. CHINOOK, N. GILFORD, RUDYARD</p>		<p>BLACKJACK, E. KEITH, MIDDLE BUTTE, O'BRIEN'S C, SAGE CK</p> <p>ALMA, AMANDA, ARCH APEX, BIG ROCK, BUFFALO FLAT, CUT BANK, DEVON, DRY FORK, DUNKIRK, FITZPATRICK L., FLAT C, FT. CONRAD, GALATA, GRANDVIEW, HARDPAN, HAYSTACK BUTTE, E. KEITH, KEVIN SUNBURST, SW KEVIN, KICKING HORSE, LEDGER, MARIAS RIVER, MINERS C, O'BRIEN'S C, O. D. SHELBY, POLICE C, PRAIRIE DELL, SNOOSE C., SOBIEH UP C., TIBER, TRAIL CK., WHITLASH, WILLIAMS, WILLOW RIDGE</p> <p>S. CONRAD</p> <p>BLACKFOOT, BRADLEY, CUT BANK, DUNKIRK, FLAT C., KEVIN SUNBURST, KICKING HORSE, M. BUTTE, PRAIRIE DELL, W. BUTTE, WHITLASH, WILLOWRIDGE, BRADY, KEVIN SUNBURST, STRAWBERRY CK, WILLOW RIDGE</p> <p>BRADY, KEVIN SUNBURST, STRAWBERRY CK, WILLOW RIDGE</p> <p>AMANDA, ARCH APEX, BLACKFOOT, DUNKIRK, E & SW KEVIN, OLD SHELBY, PRAIRIE DELL, BERTHELOTE, BRADY, S. CONRAD, DUTCH JOHN, FRED & GEORGE, GRABEN C., GYPSY B., KEVIN SUNBURST, PHANTOM & W. W. BUTTE, WHITLASH & W.</p> <p>BLACKFOOT & E., BOHDFR-RED C., CUT BANK, GRABEN C., HLU CK</p>	<p>MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM</p>		JURASSIC
					TRIASSIC
					PERMIAN
					PENNSYLVANIAN
					MISSISSIPPIAN
					DEVONIAN
					SILURIAN
					ORDOVICIAN
					CAMBRIAN
					PROTEROZOIC
					ARCHEAN
		SWEETGRASS ARCH	NORTHERN DISTURBED BELT		