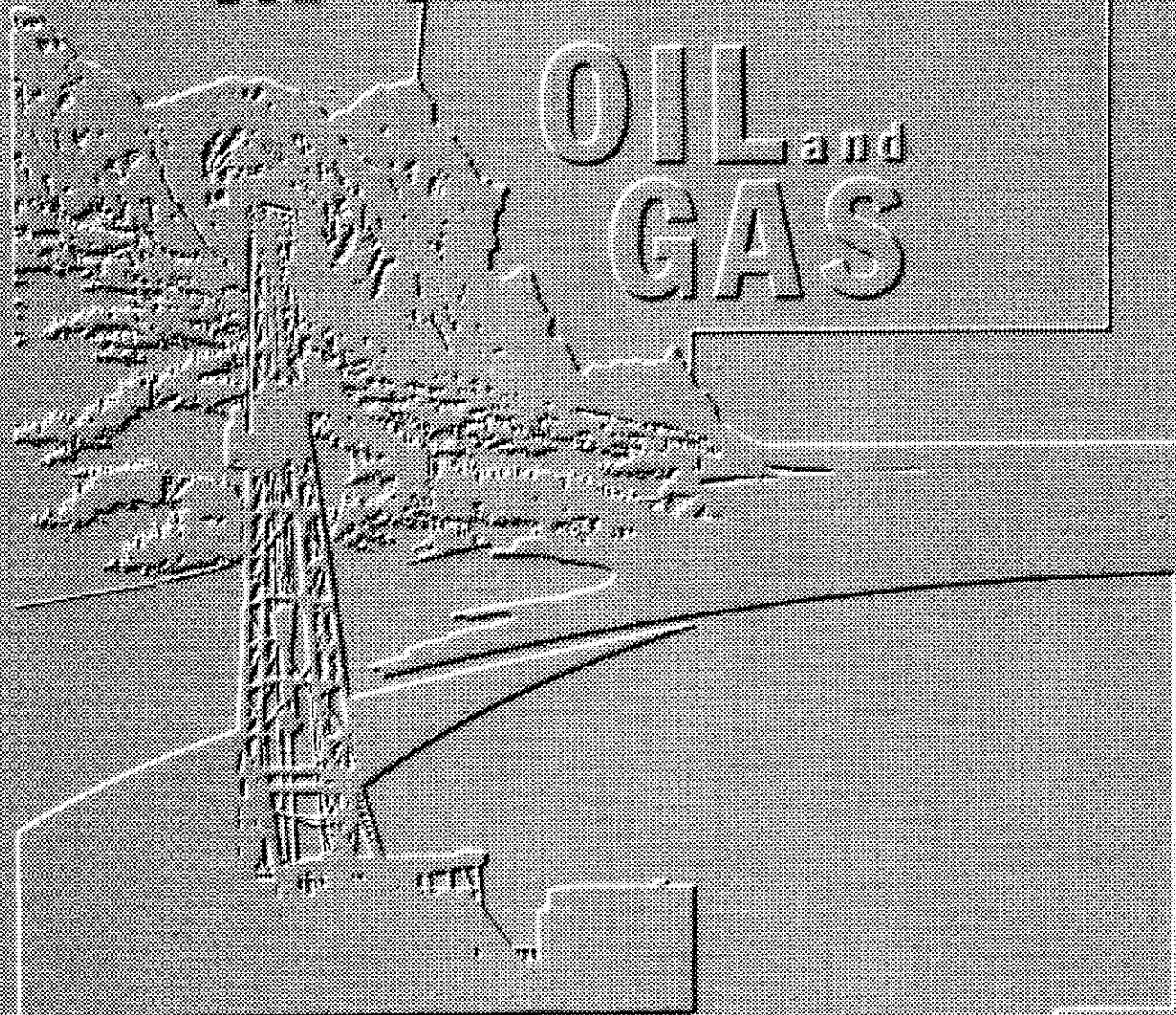


MONTANA

OIL and
GAS

ANNUAL REVIEW 1999

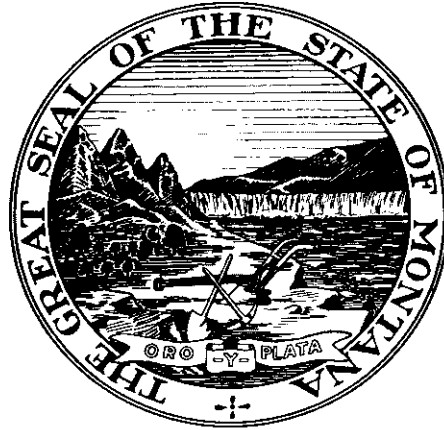
Volume Forty-three



DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Marc Racicot, Governor



ANNUAL REVIEW FOR THE YEAR 1999

Relating to
OIL AND GAS
Volume 43

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September, 2000

ACKNOWLEDGMENTS

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Annual Review for the Year 1999 Volume 43 ACTIVITY REVIEW

Montana's oil production was down approximately 8 percent from 16.61 million barrels in 1998 to 15.27 million barrels in 1999. Gas production increased 3 percent from 59.7 million MCF in 1998 to 61.6 million MCF in 1999. Well drilling increased 55 percent over the previous year's activities, with 412 development wells and 70 exploratory wells being completed in 1999. During the year, 363 new gas wells and 49 new oil wells were completed.

Geophysical activities continued in 1999, with four contractors permitting 20 seismic projects. The Williston Basin in northeastern Montana had most of these projects. A significant number of the permitted seismic projects involved 3-D techniques.

The 1999 activities reflect a continuing shift in interest to natural gas exploration and production, and a decreased interest in oil prospects. Coal bed methane and conventional gas development projects predominated new well activities.

In 1999 approval was given for seven new horizontal wells and two horizontal re-completions of existing vertical wells. The Board of Oil and Gas Conservation (BOGC) approved one new tertiary enhanced recovery project, thereby qualifying the incremental increase in production for a lower tax rate. Forty-eight horizontal re-completion efforts were certified for tax purposes.

Drilling permit activity remained steady, with 551 permits to drill issued in 1998 and 549 permits issued in 1999. The board's staff performed environmental assessments for each application involving private or state-owned lands prior to permit issuance.

BOGC issued 109 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. BOGC approved Order 99-99 establishing general requirements for operators proposing coal bed methane projects within the area established by the Montana Department of Natural Resources and Conservation as the Powder River Basin Controlled Groundwater Area.

In 1999, BOGC spent \$767,842 on three plugging and site restoration projects involving orphaned or abandoned wells: (1) \$699,536 on the Balco Site Disposal Project in Richland County; (2) \$2,102 on the Devil's Basin Plug, Abandonment, and Restoration Project in Richland, Roosevelt, and Musselshell Counties; and (3) \$66,204 on the emergency plugging of the Van Winkle #1 well in the Clarks Fork Yellowstone River in Yellowstone County. (The original location of this last well was on land adjacent to the river, but, when the river channel changed, the well ended up in the river.) These projects were funded through grants from DNRC's Reclamation and Development Grants Program, interest allocated to the board from the Resource Indemnity Trust (RIT), and proceeds from forfeited plugging and restoration bonds.

At the close of the year, the board's new World Wide Web server was being installed in the Billings office with a high-speed connection to the Internet in preparation for rollout of its publicly accessible well information database. The URL for the new server is:

<http://bogc.dnrc.state.mt.us>.

1999
SUMMARY OF YEAR ACTIVITIES

OIL

	BBLS	BBLS/DAY
Oil Produced	15,266,740	41,827
Oil Imported From:		
Canada	40,986,170	
Wyoming	<u>12,623,359</u>	
Total	53,609,529	146,875
Oil Exported	12,100,000	33,200

GAS

	MCF	MCF/DAY
Gas Withdrawals:		
Natural	54,962,227	
Associated	<u>6,684,352</u>	
Total	61,646,579	168,895
Gas Imported From:		
Canada	4,596,671	
North Dakota	6,243,180	
Wyoming	<u>17,628,085</u>	
Total	28,467,936	77,994
Gas Exported To:		
North Dakota	20,075,282	
South Dakota	9,786,455	
Midwest	<u>21,952,062</u>	
Total	51,813,799	141,956

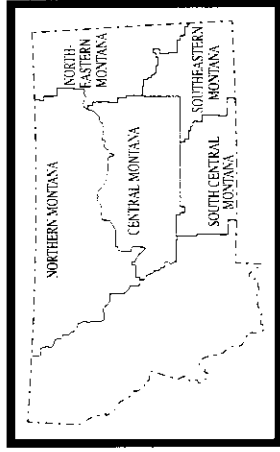
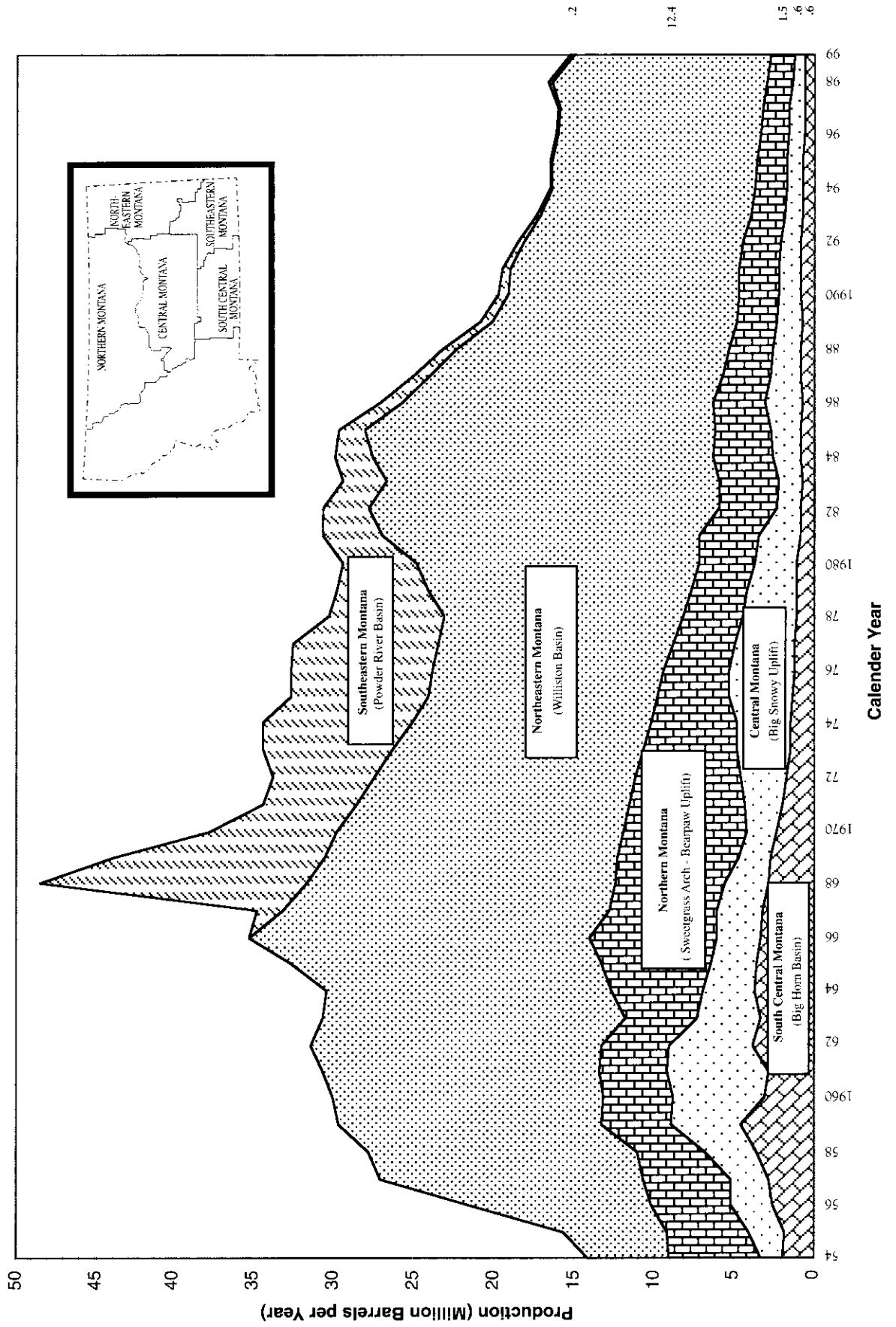
FIVE YEAR SUMMARY

	1995	1996	1997	1998	1999
OIL PRODUCTION IN BARRELS					
Northern Montana	1,783,331	1,735,895	1,677,301	1,582,032	1,495,616
South Central	698,537	653,723	606,858	583,112	609,495
Central	1,040,127	950,865	967,478	815,762	616,955
Williston Basin	12,877,305	12,695,462	12,637,980	13,396,334	12,336,935
Powder River Basin	126,524	115,662	179,406	235,697	207,560
TOTAL	<u>16,525,824</u>	<u>16,151,607</u>	<u>16,069,023</u>	<u>16,612,937</u>	<u>15,266,561</u>
NUMBER OF PRODUCING OIL WELLS					
Northern Montana	2,093	2,029	1,971	1,884	1,843
South Central	132	130	130	131	130
Central	249	239	231	230	191
Williston Basin	1,310	1,294	1,301	1,330	1,297
Powder River Basin	28	46	73	82	70
TOTAL	<u>3,812</u>	<u>3,738</u>	<u>3,706</u>	<u>3,657</u>	<u>3,531</u>
AVERAGE DAILY PRODUCTION/WELL					
Northern Montana	2.3	2.3	2.3	2.3	2.2
South Central	14.5	13.7	12.8	12.2	12.8
Central	11.4	10.8	11.5	9.7	8.8
Williston Basin	26.9	26.8	26.6	27.6	26.0
Powder River Basin	12.4	6.9	6.7	7.9	8.1
STATE AVERAGE	<u>11.9</u>	<u>11.8</u>	<u>11.9</u>	<u>12.4</u>	<u>11.8</u>
DEVELOPMENT WELLS DRILLED					
Oil Wells	53	68	59	44	44
Gas Wells	65	54	194	140	332
Dry Holes	14	15	33	23	32
Service Wells	10	4	4	2	4
TOTAL	<u>142</u>	<u>141</u>	<u>290</u>	<u>209</u>	<u>412</u>
EXPLORATORY WELLS DRILLED					
Oil Wells	7	13	31	35	5
Gas Wells	15	10	7	25	31
Dry Holes	44	40	41	38	34
Temporary Abandoned	3	5	2	3	0
TOTAL	<u>69</u>	<u>68</u>	<u>81</u>	<u>101</u>	<u>70</u>
TOTAL WELLS DRILLED	211	209	371	310	482
TOTAL FOOTAGE DRILLED	1,068,715	1,072,556	1,704,167	1,530,118	1,189,921
AVERAGE FOOTAGE DRILLED	5,065	5,131	4,593	4,935	2,469

COUNTY ACTIVITY SUMMARY - 1999

County	Developmental			Exploratory				Temp. Abandoned	Service	Total Wells	Feet Drilled	Average Feet Drilled
	Oil	Gas	Dry	Oil	Gas	Dry						
Big Horn	0	130	3	0	0	3	0	0	136	65,965	485	
Blaine	0	41	9	0	11	12	0	0	73	134,287	1,840	
Carbon	3	1	0	0	0	0	0	0	4	17,999	4,500	
Carter	0	0	0	0	0	1	0	0	1	3,066	3,066	
Chouteau	0	9	2	0	1	1	0	0	13	35,352	2,719	
Daniels	0	0	0	0	0	1	0	0	1	9,235	9,235	
Fallon	29	30	0	0	1	0	1	0	61	487,248	7,988	
Garfield	0	0	1	0	0	1	0	0	2	7,726	3,863	
Glacier	4	0	2	0	0	0	0	0	6	18,096	3,016	
Hill	0	27	11	0	9	4	0	0	51	85,737	1,681	
Liberty	0	6	0	0	7	0	0	0	14	29,776	2,127	
McCone	0	0	0	0	0	3	0	0	3	19,752	6,584	
Musselshell	0	0	0	1	0	0	0	0	1	4,248	4,248	
Petroleum	0	0	0	0	0	1	0	0	1	2,757	2,757	
Phillips	0	54	0	0	2	2	0	0	58	78,525	1,354	
Pondera	3	0	0	1	0	1	0	0	5	15,259	3,052	
Prairie	0	1	0	0	0	0	0	0	1	2,000	2,000	
Richland	2	0	0	0	0	0	0	0	2	24,942	12,471	
Roosevelt	0	0	0	1	0	0	1	0	2	18,148	9,074	
Rosebud	0	0	0	1	0	1	0	0	2	9,983	4,992	
Sheridan	1	0	1	0	0	1	0	0	3	24,150	8,050	
Teton	0	0	0	0	0	1	0	0	1	4,672	4,672	
Toole	1	6	3	1	0	1	1	0	13	27,357	2,104	
Wibaux	1	27	0	0	0	0	0	0	28	63,641	2,273	
Totals	44	332	32	5	31	34	4	0	482	1,189,921	2,469	

Crude Oil Production in Montana - 1954-1999



GAS PRODUCTION DATA - 1999

NATURAL GAS

Field	County	Reported Formation	Produced MCF
Amanda	Toole	Bow Island, Burwash, Dakota, Sunburst, Swift	184,815
Antelope Coulee	Toole	Bow Island	807
Arch Apex	Toole	Bow Island, Sunburst	246,888
Ashfield	Phillips	Bowdoin (Carlile), Greenhorn, Phillips	1,715,848
Badlands	Hill	Eagle, Virgelle	189,571
Battle Creek	Blaine	Eagle, Niobrara	1,532,567
Bears Den	Liberty	Bow Island, Swift	5,762
Bell Creek, Southeast	Powder River	Muddy	165,455
Big Coulee & Area	Golden Valley, Stillwater	Cat Creek, Morrison	188,650
Big Rock	Glacier	Blackleaf, Bow Island, Colorado	228,891
Bills Coulee	Teton	Kootenai, Moulton, Sunburst	7,365
Black Butte	Hill	Eagle	46,149
Black Coulee	Blaine	Eagle	142,383
Blackfoot	Glacier	Bow Island, Dakota, Sunburst	50,174
Blackjack	Liberty	Blackleaf, Second White Specks, Sunburst	65,165
Bowdoin and Area	Phillips, Valley	Bowdoin (Carlile), Greenhorn, Phillips	5,441,654
Bowes	Blaine	Eagle	414,987
Bradley	Glacier	Bow Island, Sunburst	2,393
Browns Coulee	Hill	Eagle, Second White Specks	274,816
Browns Coulee, East	Hill	Eagle, Niobrara	231,322
Bullwacker	Blaine, Chouteau	Eagle, Judith River, Virgelle	1,082,678
Camp Creek	Chouteau	Eagle	16,405
Cedar Creek	Fallon	Eagle, Judith River	5,206,842
Chip Creek	Chouteau	Eagle	4,113
Clark's Fork	Carbon	Greybull	15,640
Coal Coulee	Hill	Eagle	32,714
Coal Mine Coulee	Chouteau	Eagle, Second White Specks	15,178
Conrad, South	Pondera	Bow Island	40,500
Cut Bank	Glacier, Toole	Blackleaf, Bow Island, Cut Bank, Dakota, Kootenai, Lander, Moulton, Sunburst	2,041,061
CX Field	Big Horn	Carney, Deitz, Monarch	59,983
Devon	Toole	Bow Island	80,870
Devon, South Unit	Toole	Bow Island	18,484
Dry Creek	Carbon	Frontier, Judith River, Virgelle	335,396
Dry Creek (Shallow Gas)	Carbon	Eagle, Virgelle	65,129
Dry Creek, Middle	Carbon	Frontier, Virgelle	20,338
Dry Creek, West	Carbon	Greybull	31,021
Dry Fork	Pondera	Bow Island	13,911
Dunkirk	Toole	Dakota	53,943
Dunkirk, North	Toole	Bow Island, Sunburst, Swift	167,527
Dutch John Coulee	Toole	Sunburst	60,861
Eagle Springs	Toole	Bow Island	8,977
Ethridge	Toole	Swift	63,485
Ethridge, North	Toole	Bow Island	20,065
Fitzpatrick Lake	Toole	Bow Island	80,586
Flat Coulee	Liberty	Bow Island, Dakota, Swift	35,808
Fort Conrad	Pondera, Toole	Bow Island	20,494
Fred and George Creek	Toole	Bow Island	21,282
Fresno and Area	Hill	Eagle	404,679
Galata	Toole	Bow Island	22,560
Gas Light	Fallon	Eagle	148,091
Golden Dome	Carbon	Eagle, Frontier	43,871
Grandview	Liberty	Bow Island	36,032
Gypsy Basin	Pondera	Sunburst, Swift	6,119
Hardpan	Chouteau, Pondera	Bow Island	57,567
Hardpan Area	Pondera	Bow Island	6,651
Havre	Blaine, Hill	Eagle	18,699
Haystack Butte	Liberty	Bow Island	23,644
Haystack Butte, West	Liberty	Bow Island	54,275
Highline	Hill	Eagle	20,818

GAS PRODUCTION DATA - 1999

NATURAL GAS (continued)

Field	County	Reported Formation	Produced MCF
Keith Area	Liberty	Bow Island, Sawtooth, Second White Specks	22,036
Keith, East	Liberty	Bow Island, Niobrara, Sawtooth, Second White Specks	290,731
Kevin Area	Toole	Swift	897
Kevin Southwest	Toole	Bow Island, Dakota, Kootenai, Sunburst, Swift	188,147
Kevin Sunburst	Toole	Blackleaf, Bow Island, Cut Bank, Dakota, Ellis, Kootenai, Madison, Nisku, Sunburst, Swift	489,616
Kevin Sunburst (Dakota)	Toole	Dakota	12,193
Kevin Sunburst-Bow Island	Toole	Bow Island	39,547
Kevin Sunburst Nisku & Area	Toole	Nisku	74,109
Kevin, East Bow Island Gas	Toole	Bow Island	432
Kevin, East Gas	Toole	Bow Island, Sunburst, Swift	60,967
Kevin, East Nisku Oil	Toole	Nisku	27,136
Kicking Horse	Toole	Bow Island, Sunburst	112,701
Lake Basin	Stillwater	Big Elk	53,147
Ledger	Pondera, Toole	Bow Island	118,880
Leroy	Blaine	Eagle	245,969
Liscom Creek	Custer	Shannon	283,064
Little Creek	Chouteau	Eagle	13,929
Little Rock	Glacier	Blackleaf, Lander	67,549
Lohman	Blaine	Eagle	34,775
Lohman Area	Blaine	Eagle	132,493
Loring	Phillips	Bowdoin (Carlile), Greenhorn, Phillips	1,600,112
Loring, East	Phillips	Bowdoin (Carlile), Greenhorn, Judith River, Martin, Phillips	1,017,515
Loring, West	Phillips	Bowdoin (Carlile), Greenhorn, Martin, Phillips	74,889
Marias River	Pondera, Toole	Bow Island	65,160
Middle Butte	Liberty, Toole	Blackleaf, Bow Island, Second White Specks	39,271
Miners Coulee	Toole	Blackleaf, Bow Island, Madison, Sawtooth, Sunburst, Swift	64,953
Mount Lily	Liberty	Bow Island, Swift	6,144
O'Briens Coulee	Liberty	Bow Island, Blackleaf, Second White Specks, Spike	126,951
Old Shelby	Toole	Bow Island, Sunburst, Swift	677,971
Phantom	Toole	Sunburst	11,875
Phantom, West	Toole	Sunburst	33,387
Pine Gas	Prairie, Wibaux	Eagle, Judith River	1,052,062
Plevna	Fallon	Eagle	65,846
Police Coulee	Toole	Bow Island	32,621
Prairie Dell	Toole	Bow Island, Dakota, Kootenai, Sunburst, Swift	548,077
Prairie Dell, West	Toole	Bow Island, Dakota, Kootenai, Sunburst, Swift	47,625
Rattlesnake Coulee	Toole	Sunburst	2,431
Red Rock	Blaine, Hill	Eagle, Niobrara, Second White Specks	1,427,749
Rocky Boy Area	Hill	Eagle	211,042
Rudyard	Hill	Eagle, Sawtooth	25,628
Sage Creek	Liberty	Blackleaf, Bow Island, Second White Specks	65,363
Sawtooth Mountain & Area	Blaine	Eagle, Judith River	1,192,950
Shelby Area	Toole	Sunburst	9,412
Shelby, East	Toole	Bow Island, Burwash, Sunburst, Swift	31,695
Sherard	Blaine, Chouteau	Eagle, Judith River	34,289
Sherard Area	Blaine, Chouteau	Eagle, Judith River	919,796
Sixshooter Dome	Stillwater, Sweet Grass	Eagle, Lakota, Telegraph Creek	130,315
Snoose Coulee	Liberty	Bow Island	21,544
Snow Coulee	Liberty	Sunburst	1,514
Spring Coulee	Hill	Greenhorn	6,451
Strawberry Creek Area	Toole	Bow Island, Burwash	28,992
Swanson Creek	Phillips, Valley	Bowdoin (Carlile), Greenhorn, Phillips	308,347
Three Mile	Blaine	Eagle	56,778
Tiber Area	Toole	Bow Island	11,652
Tiber, East	Toole	Bow Island	41,332

GAS PRODUCTION DATA - 1999 NATURAL GAS (continued)

Field	County	Reported Formation	Produced MCF
Tiger Ridge and Area	Blaine, Hill	Eagle, Judith River	17,093,233
Timber Creek, West	Toole	Sunburst	8,570
Trail Creek	Liberty, Toole	Bow Island, Sunburst, Swift	98,257
Utopia	Liberty	Bow Island, Sawtooth	77,019
Vandalia	Valley	Carlile	28,591
West Butte	Toole	Bow Island	20,632
West Butte Shallow Gas	Toole	Bow Island	8,823
Whitewater	Phillips	Bowdoin (Carlile), Greenhorn, Phillips	2,399,326
Whitewater, East	Phillips	Carlile, Greenhorn, Martin, Phillips	405,266
Whitlash	Liberty	Bow Island, Dakota, Madison, Spike, Sunburst, Swift	575,212
Whitelash, West	Liberty, Toole	Bow Island, Sunburst	32,418
Williams	Pondera	Bow Island	62,127
Willow Ridge	Toole	Bow Island, Sunburst	169,112
Willow Ridge, South	Toole	Bow Island, Sunburst	74,610
Willow Ridge, West	Toole	Bow Island	4,170
Wildcat	Fallon	Eagle, Unknown	19,905
Wildcat	Hill	Eagle	27,394
Wildcat	Toole	Madison	5,546
TOTAL NATURAL GAS			54,962,227

GAS PRODUCTION DATA - 1999

ASSOCIATED GAS

Field	County	Reported Formation	Produced MCF
Alkali Coulee	Sheridan	Red River	3,172
Anvil	Roosevelt	Nisku, Ratcliffe, Red River	87,855
Ator	Sheridan	Red River	161
Bainville	Roosevelt	Ratcliffe, Red River, Winnipegosis	22,011
Bainville (Ratcliffe/Mission)	Roosevelt	Ratcliffe	2,590
Bainville, North	Roosevelt	Madison, Nisku, Red River, Winnipegosis	406,070
Bainville, West	Roosevelt	Red River	3,770
Bainville II	Roosevelt	Ratcliffe, Red River	26,721
Beanblossum	Garfield	Lower Tyler	1,258
Bell Creek	Powder River	Muddy	8,100
Big Muddy Creek	Roosevelt	Duperow, Interlake, Mission Canyon	18,710
Bloomfield	Dawson	Dawson Bay, Interlake	6,548
Breed Creek	Rosebud	Tyler	4,514
Brorson	Richland	Interlake, Madison, Red River	73,309
Brorson, South	Richland	Bakken, Madison	28,922
Brush Lake	Sheridan	Red River, Stonewall	103,791
Burget, East	Roosevelt	Nisku	7,892
Cabaret Coulee	Daniels	Madison	50
Cabin Creek	Fallon	Madison, Red River, Siluro-Ordovician	326,318
Canal	Richland	Madison, Mission Canyon, Red River	16,076
Cattails	Richland	Ratcliffe	33,766
Cattails, South	Richland	Madison	10,157
Charlie Creek	Richland	Bakken, Dawson Bay	15,462
Charlie Creek, East	Richland	Nisku, Red River	16,604
Chelsea Creek	Roosevelt	Nisku	2,112
Clear Lake	Sheridan	Mission Canyon, Nisku, Ratcliffe, Red River	41,364
Clear Lake, South	Sheridan	Red River	1,812
Colored Canyon	Sheridan	Red River	49,587
Comertown	Sheridan	Ratcliffe, Red River	18,902
Comertown, South	Sheridan	Red River	6,291
Cottonwood	Richland	Ratcliffe	9,883
Cottonwood, East	Roosevelt	Ratcliffe	1,765
Crane	Richland	Devonian, Duperow, Interlake, Red River	32,770
Cuption	Fallon	Red River	10,962
Cut Bank	Pondera, Glacier, Toole	Cut Bank, Madison, Moulton	79,615
Dagmar	Sheridan	Red River	4,660
Deer Creek	Dawson	Charles	45,542
Diamond Point	Roosevelt	Interlake, Red River	21,504
Divide	Sheridan	Madison, Ratcliffe, Red River	59,036
Dooley	Sheridan	Ratcliffe	3,286
Dry Creek	Carbon	Greybull	114,670
Dugout Creek	Richland	Red River	105,992
Dwyer	Sheridan	Charles, Red River	20,946
Eagle	Richland	Duperow, Interlake, Madison, Ratcliffe	8,948
Elk Basin	Carbon	Embar, Madison, Tensleep	239,028
Elk Basin, Northwest	Carbon	Cloverly, Embar, Frontier, Madison, Tensleep	20,024
Enid, North	Richland	Red River	5,466
Epworth	Richland	Bakken	7,040
Fairview	Richland	Duperow, Madison, Mission Canyon, Ratcliffe, Red River	166,051
Fairview, East	Richland	Ratcliffe, Winnipegosis	11,042
Fairview, West	Richland	Madison	29,011
Fishhook	Sheridan	Red River	5,025
Flat Coulee	Liberty	Swift	4,733
Flat Lake	Sheridan	Nisku, Ratcliffe, Red River	257,452
Flat Lake, South	Sheridan	Ratcliffe	8
Fort Gilbert	Richland	Madison, Mission Canyon, Red River	13,373
Four Mile Creek	Richland	Red River	6,094
Four Mile Creek, West	Richland	Red River	16,865
Fred & George Creek	Toole	Sunburst	2,591
Frog Coulee	Richland	Red River	4,054
Froid, South	Roosevelt	Red River, Winnipegosis	25,759
Gas City	Dawson	Madison, Ordovician, Red River, Silurian	3,001
Girard	Richland	Bakken, Red River	19,015
Glendive	Dawson	Red River, Siluro-Ordovician, Stoney Mountain	13,574
Golden Dome	Carbon	Greybull	23,172

GAS PRODUCTION DATA - 1999

ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Goose Lake	Sheridan	Ratcliffe, Red River	11,471
Goose Lake, West	Sheridan	Red River	6,055
Graben Coulee	Glacier	Cut Bank, Sunburst	2,665
Green Coulee	Sheridan	Ratcliffe	3,840
Gunsight	Roosevelt	Mission Canyon	3,255
Hardscrabble Creek	Richland	Red River	11,447
Hay Creek	Richland	Duperow, Mission Canyon, Red River	26,092
High Five	Rosebud	Stensvad, Tyler	7,624
Intake II	Richland	Mission Canyon	7,250
Katy Lake	Sheridan	Red River	11,247
Katy Lake, North	Sheridan	Madison, Mission Canyon, Red River	98,839
Kevin-Sunburst	Toole	Madison, Swift	8,743
Kevin, East Nisku Oil	Toole	Nisku	73,121
Kincheloe Ranch, West	Rosebud	Tyler	1,560
Laird Creek	Liberty	Swift	3
Lambert, South	Richland	Red River	16,928
Landslide Butte	Glacier	Madison	54,681
Lane	Richland	Red River	32,274
Little Beaver	Fallon	Red River, Siluro-Ordovician	20,842
Little Beaver, East	Fallon	Mission Canyon, Red River, Siluro-Ordovician	10,637
Little Wall Creek	Musselshell	Stensvad, Tyler	8,130
Lone Butte	Richland	Mission Canyon, Red River	20,507
Lonetree Creek	Richland	Interlake, Red River	129,487
Long Creek, West	Roosevelt	Nisku	728
Lookout Butte	Fallon	Madison, Red River, Siluro-Ordovician	105,262
Lookout Butte, East	Fallon	Lodgepole, Red River	563,065
Lowell, South	Sheridan	Red River	5,600
Lustre	Valley	Charles, Mission Canyon, Ratcliffe	38,388
McCabe	Roosevelt	Ratcliffe	3,573
McCabe, East	Roosevelt	Red River	14,079
Medicine Lake	Sheridan	Duperow, Gunton, Mission Canyon, Red River, Winnipegosis	41,967
Medicine Lake, South	Sheridan	Red River	31,997
Melstone, North	Musselshell	Tyler	11,580
Midfork	Valley	Charles, Nisku	13,568
Missouri Breaks	Richland	Nisku, Ratcliffe	2,496
Mon Dak, West	Richland	Duperow, Interlake, Madison, Ordovician	209,670
Mona	Richland	Red River	6,481
Monarch	Fallon	Interlake, Red River, Siluro-Ordovician	54,601
Mustang	Richland	Bakken, Red River	56,337
Neiser Creek	Sheridan	Red River	34,142
Nielsen Coulee	Daniels	Madison	26
Nohly	Richland	Madison, Mission Canyon, Nisku, Ratcliffe, Red River	223,241
North Fork	Richland	Mission Canyon	7,515
Otis Creek	Richland	Ratcliffe	2,835
Otis Creek, South	Richland	Stonewall	3,053
Outlook	Sheridan	Bakken, Madison, Mission Canyon, Nisku	22,285
Oxbow	Roosevelt	Red River	21,374
Oxbow II	Roosevelt	Nisku	17,872
Palomino	Roosevelt	Nisku	3,620
Pennel	Fallon	Red River, Siluro-Ordovician, Stoney Mountain	355,988
Pine	Fallon, Wibaux, Prairie, Dawson	Madison, Mission Canyon, Siluro-Ordovician	171,492
Poplar, Northwest	Roosevelt	Charles	17,983
Pronghorn	Sheridan	Red River	485
Putnam	Richland	Bakken, Interlake, Madison, Mission Canyon, Red River	61,756
Rattler Butte	Rosebud	Tyler	3,572
Rattlesnake Butte	Petroleum	Cat Creek	2,304
Raymond	Sheridan	Duperow, Nisku, Red River, Winnipegosis	202,214
Raymond, North	Sheridan	Red River	714
Reagan	Glacier	Blackleaf, Madison	83,946
Red Bank	Roosevelt	Madison, Mission Canyon, Ratcliffe	11,040
Red Bank, South	Roosevelt	Red River	110
Red Creek	Glacier	Cut Bank, Madison	14,145
Red Water	Richland	Red River, Winnipegosis	2,551

GAS PRODUCTION DATA - 1999 ASSOCIATED GAS (continued)

Field	County	Reported Formation	Produced MCF
Red Water, East	Richland	Red River	7,090
Refuge	Sheridan	Nisku, Red River	16,341
Reserve	Sheridan	Red River	29,595
Reserve II	Sheridan	Interlake	114
Ridgelawn	Richland	Mission Canyon, Ratcliffe, Red River	50,723
Ridgelawn, North	Richland	Madison	11,987
RipRap Coulee	Roosevelt	Ratcliffe	11,296
Rocky Point	Roosevelt	Red River	5,777
Royals	Dawson	Dawson Bay	3,845
Rush Mountain	Sheridan	Gunton, Ratcliffe	26,043
Salt Lake	Sheridan	Red River	2,790
Second Creek	Richland	Duperow	13,058
Shotgun Creek	Roosevelt	Ratcliffe	7,408
Sidney	Richland	Madison, Mission Canyon, Ratcliffe, Red River	17,255
Sioux Pass	Richland	Interlake, Red River	133,635
Sioux Pass, Middle	Richland	Red River	45,792
Sioux Pass, North	Richland	Madison, Ratcliffe, Red River	100,879
Sioux Pass, South	Richland	Red River	742
Sioux Pass, West	Richland	Red River	26,976
Snake Creek	Roosevelt	Gunton, Red River, Winnipegosis	12,144
South Fork	Richland	Mission Canyon, Red River	16,922
Spring Lake	Richland	Bakken, Dawson Bay	16,835
Spring Lake, West	Richland	Bakken	122
Stampede	Richland	Bakken, Red River	10,069
Target	Roosevelt	Nisku	11,964
Three Buttes	Richland	Bakken, Red River	20,662
Tule Creek	Roosevelt	Devonian, Nisku	9,078
Tule Creek, East	Roosevelt	Nisku	2,920
Utopia	Liberty	Swift	12,058
Vaux	Richland	Bakken, Interlake, Madison, Mission Canyon, Red River, Stonewall	102,591
Wakea	Sheridan	Duperow, Interlake, Nisku, Red River, Winnipegosis	28,061
Waterhole Creek	Fallon	Red River	53,804
Weed Creek	Yellowstone	Amsden	501
Whitlash	Liberty	Sunburst, Swift	32,342
Wills Creek, South	Fallon	Siluro-Ordovician	16,699
Windy Ridge	Fallon	Red River	60,055
Woodrow	Dawson	Charles, Interlake	3,960
Wrangler	Sheridan	Red River	24,348
Wrangler, North	Sheridan	Red River	532
Wright Creek	Powder River	Muddy	11,134

TOTAL ASSOCIATED GAS **6,684,352**

REFINERS' ANNUAL REPORT — 1999

COMPANY	BEGINNING STORAGE	MONTANA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
Cenex	244,189	1,368,726	1,541,855	13,673,690	16,630,713	197,747
Conoco	179,847	298,747	670,904	16,906,241	17,880,337	175,398
Exxon Corp.	167,174	972,330	10,410,600	8,563,587	19,772,837	340,854
Montana Refining Co.	16,334	522,394	-0-	1,842,652	2,363,786	17,594
TOTALS	607,544	3,162,197	12,623,359	40,986,170	56,647,673	731,593

PERCENTAGE OF CRUDE OIL RECEIVED

YEAR	MONTANA	CANADA	WYOMING
1995	5.92	74.47	19.61
1996	5.49	76.98	17.53
1997	5.75	71.04	23.21
1998	5.75	70.80	23.45
1999	5.57	72.19	22.24

AVERAGE BARRELS PER DAY

YEAR	MONTANA	CANADA	WYOMING	TOTAL
1995	8,333	104,837	27,600	140,770
1996	8,288	116,254	26,466	151,008
1997	8,706	107,660	35,179	151,545
1998	8,775	108,080	35,800	152,655
1999	8,664	112,291	34,585	155,540

REFINING FIVE YEAR COMPARISON

1995	1996	1997	1998	1999
51,400,112	55,200,114	55,391,669	55,799,229	56,647,673

1999 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS
Ace High	Rosebud	0	3,686	Bynum	Teton	0	5,971
Agawan	Teton	0	79	Cabaret Coulee	Daniels	561	445,683
Alkali Coulee	Sheridan	3,455	52,977	Cabin Creek	Fallon	1,055,967	104,447,566
Andes	Richland	0	21,175	Cadmus	Glacier	0	1,173
Antelope, North	Sheridan	0	2,484	Canadian Coulee	Hill	0	2,145
Anvil	Roosevelt	87,081	4,896,114	Canal	Richland	19,380	1,338,102
Anvil, North	Sheridan	0	9,446	Cannonball	Fallon	0	74,779
Ash Creek	Big Horn	0	868,155	Carlyle	Wibaux	0	330,289
Ator Creek	Sheridan	2,772	26,181	Cat Creek	Petroleum,		
Autumn	Valley	0	35,546		Garfield	3,495	23,927,700
Bainville	Roosevelt	29,067	1,073,878	Cattails	Richland	32,235	956,099
Bainville (Ratcliffe/ Mission Canyon)	Roosevelt	5,727	29,876	Cattails, South	Richland	10,067	193,182
Bainville II	Roosevelt	27,085	861,708	Charlie Creek	Richland	18,872	882,710
Bainville, North	Roosevelt	495,112	4,820,071	Charlie Creek, East	Richland	22,180	938,171
Bainville, West	Roosevelt	2,990	263,105	Charlie Creek, North	Richland	0	43,894
Bannatyne	Teton	6,331	428,737	Chelsea Creek	Roosevelt	3,234	133,432
Bascom	Musselshell	0	27,830	Clark's Fork	Carbon	443	95,708
Beanblossom	Garfield	10,058	626,916	Clark Fork's, North	Carbon	0	1,024,608
Bear's Den	Liberty	13,131	756,149	Clark Fork's, South	Carbon	0	80,553
Belfry	Carbon	0	101,245	Clear Lake	Sheridan	91,963	3,990,753
Bell Creek	Carter,			Clear Lake, South	Sheridan	4,848	226,349
	Powder River	202,185	132,653,852	Coal Ridge	Sheridan	0	22,937
Benrud	Roosevelt	0	289,695	Colored Canyon	Sheridan	56,876	1,076,339
Benrud, East	Roosevelt	4,254	2,972,348	Comertown	Sheridan	40,315	2,887,691
Benrud, Northeast	Roosevelt	0	1,019,598	Comertown, South	Sheridan	14,241	456,044
Berthelote	Toole	732	99,820	Conrad, South	Pondera	836	160,246
Big Gully	Musselshell	50	114,493	Corner Pocket	Richland	0	14,483
Big Gully, North	Musselshell	0	29,892	Cottonwood	Richland	32,222	425,499
Big Muddy Creek	Roosevelt	18,404	1,364,671	Cottonwood, East	Roosevelt	8,304	102,608
Big Rock	Glacier	0	12,444	Cow Creek	McCone	0	127,813
Big Wall	Musselshell	41,957	8,306,309	Cow Creek, East	McCone	20,556	2,671,496
Big Wall, North	Musselshell	0	7,218	Crane	Richland	54,873	2,772,806
Black Diamond	Wibaux	0	661,442	Crocker Springs,			
Blackfoot	Glacier	12,077	1,762,173	East	Pondera	0	3,464
Blackfoot, East	Glacier	0	810	Crooked Creek	Yellowstone	0	27,395
Blackleaf Canyon	Teton	0	32,922	Culbertson	Roosevelt	0	175,652
Bloomfield	Dawson	12,114	631,335	Cupton	Fallon	45,859	2,764,354
Blue Hill	Richland	0	162,532	Curlew	Sheridan	0	5,468
Blue Mountain	Wibaux	12,960	136,555	Cut Bank	Glacier, Toole	456,072	168,056,707
Border	Toole	3,045	1,484,949	Dagmar	Sheridan	9,314	677,071
Boulder	Richland	0	156,754	Dagmar, North	Sheridan	0	55,342
Bowes	Blaine	81,999	10,889,447	Deadman's Coulee	Roosevelt	0	264,528
Box Canyon	Richland	0	245,847	Dean Dome	Stillwater	0	92,597
Bradley	Glacier	1,483	271,243	Deer Creek	Dawson	75,306	2,728,821
Brady	Pondera	5,772	239,922	Delphia	Musselshell	1,246	356,169
Bredette	Roosevelt	0	232,121	Den	Daniels	617	49,207
Bredette, North	Roosevelt	0	488,554	Devil's Basin	Musselshell	653	130,556
Breed Creek	Rosebud	92,077	2,360,773	Devil's Pocket	Golden Valley	0	53,796
Brorson	Richland	89,053	4,627,097	Diamond Point	Roosevelt	21,280	1,088,358
Brorson, South	Richland	39,296	2,281,427	Divide	Sheridan	94,954	3,076,351
Brush Lake	Sheridan	109,998	3,244,246	Dooley	Sheridan	11,593	338,294
Buffalo Flats	Chouteau	0	603	Dry Creek	Carbon	1,397	4,170,540
Buffalo Lake	Glacier	0	936	Dry Creek, Middle	Carbon	602	2,296
Burget	Roosevelt	0	6,504	Dry Creek, West	Carbon	230	14,132
Burget, East	Roosevelt	39,815	431,456	Dugout Coulee	Richland	92,504	159,244
Burns Creek	Dawson, Richland	0	260,204	Dunkirk, North	Toole	0	19
Burns Creek, South	Dawson	0	79,958	Dutch Henry	Daniels	865	219,114
Butchers Creek	Carbon	0	579	Dutch John Coulee	Toole	7,882	259,838
				Dwyer	Sheridan	68,875	9,199,738

1999 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS
Eagle	Richland	33,498	2,200,657	High Five	Rosebud	32,326	2,904,001
East Glacier	Glacier	494	26,057	Highview	Pondera	2,748	109,247
Elk Basin	Carbon	468,297	87,754,525	Homestead	Roosevelt	0	303
Elk Basin, Northwest	Carbon	54,744	2,407,716	Honker	Sheridan	0	117,078
Enid, North	Richland	5,603	470,649	Horse Creek	Liberty	0	13,516
Epworth	Richland	6,711	78,746	Howard Coulee	Musselshell	3,788	200,846
Fairview	Richland	104,274	9,597,868	Injun Creek	Rosebud	1,140	135,033
Fairview, East	Richland	15,687	495,667	Intake II	Richland	12,914	958,727
Fairview, West	Richland	17,927	465,969	Ivanhoe	Musselshell	17,898	4,680,685
Fiddler Creek	Stillwater	0	2,574	Jack Creek	Carbon	0	1,310
Fishhook	Sheridan	13,189	1,182,750	Jim Coulee	Musselshell	10,364	4,493,762
Fitzpatrick Lake	Toole	0	257	Katy Lake	Sheridan	6,426	212,598
Flat Coulee	Liberty	50,183	5,450,436	Katy Lake, North	Sheridan	138,724	5,782,337
Flat Lake	Sheridan	406,234	17,856,628	Keg Coulee	Musselshell	6,356	5,779,057
Flat Lake, East	Sheridan	10,660	161,456	Keg Coulee, North	Musselshell	0	445,785
Flat Lake, South	Sheridan	4,072	1,271,246	Kelley	Musselshell	2,130	1,032,891
Flaxville	Daniels	0	56,283	Kevin Nisku Oil, East	Toole	47,302	712,245
Fort Gilbert	Richland	27,240	2,483,246	Kevin Sunburst	Toole	212,949	81,291,229
Four Buttes	Sheridan	0	42,391	Kicking Horse	Toole	0	1,526
Four Mile Creek	Richland	6,714	435,699	Kincheloe Ranch, West	Rosebud	5,605	830,693
Four Mile Creek, West	Richland	22,346	471,290	Kippen, East	Toole	0	150
Fox Creek	Richland	0	200,464	Krug Creek	Dawson	0	15,288
Fox Creek, North	Richland	0	75,398	Laird Creek	Liberty	3,306	616,382
Frannie	Carbon	0	773,613	Lake Basin	Stillwater	0	473,639
Fred & George Creek	Toole	27,798	13,476,253	Lakeside	Roosevelt	0	487
Frog Coulee	Richland	14,745	279,896	Lambert	Richland	0	640,389
Froid, South	Roosevelt	19,840	338,548	Lambert, North	Richland	0	36,552
Gage	Musselshell	859	657,130	Lambert, South	Richland	80,103	217,059
Gage, Southwest	Musselshell	0	16,289	Lamesteer Creek	Wibaux	0	31,845
Gas City	Dawson	57,048	10,696,837	Landslide Butte	Glacier	26,245	657,434
Gettysburg	Richland	0	304	Lane	Richland	28,744	86,906
Girard	Richland	19,949	614,189	Lariat	Sheridan	0	3,599
Glendive	Dawson	99,266	13,994,750	Laurel	Yellowstone	0	1,017
Glendive, South	Dawson	0	68,936	Leary	Powder River	0	676,899
Golden Dome	Carbon	924	114,865	Ledger	Toole	0	275
Goose Lake	Sheridan	68,812	9,963,763	Line Coulee	Daniels	0	57,789
Goose Lake, East	Sheridan	0	4,522	Lisk Creek	Dawson, Richland	0	1,963
Goose Lake, Southeast	Sheridan	0	45,527	Little Beaver	Fallon	203,555	15,330,668
Goose Lake, West	Sheridan	15,892	659,792	Little Beaver, East	Fallon	109,358	6,671,690
Gossett	Richland	2,138	397,295	Little Phantom	Toole	0	58,500
Graben Coulee	Glacier	19,054	2,431,360	Little Wall Creek	Musselshell	52,975	5,176,419
Grandview	Liberty	0	9,784	Lobo	Sheridan, Roosevelt	0	260,141
Grandview, East	Liberty	1,125	61,496	Lodge Grass	Big Horn	5,699	367,605
Gray Blanket	Big Horn	23,617	254,530	Lone Butte	Richland	23,586	836,428
Green Coulee	Sheridan	6,288	229,235	Lone Rider	Roosevelt	0	5,903
Green Coulee, East	Sheridan	0	62,942	Lonetree Creek	Richland	125,067	4,635,668
Gumbo Ridge	Rosebud	413	609,709	Lonetree Creek, West	Richland	0	33,029
Gunsight	Roosevelt	11,568	376,629	Long Creek	Roosevelt	1,628	88,931
Gypsy Basin	Pondera	245	508,290	Long Creek, West	Roosevelt	17,359	846,671
Hardpan	Pondera	0	2,805	Lookout Butte	Fallon	441,334	28,542,651
Hardscrabble Creek	Richland	7,689	164,484	Lookout Butte, East	Fallon	1,493,129	5,867,062
Hawk Creek	Musselshell	0	13,277	Lost Creek	McCone	0	1,534
Hawk Haven	Richland	1,615	36,232	Lowell	Sheridan	2,983	306,832
Hay Creek	Richland	29,865	1,640,785	Lowell, South	Sheridan	48,101	127,871
Hell Coulee	Daniels	411	66,671	Lustre	Valley	109,663	5,822,649
Hiawatha	Musselshell	11,336	1,683,933	Lustre, North	Valley	0	190,737
Hibbard	Rosebud	2,149	221,835				

1999 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS
Mackay Dome	Stillwater	11,848	99,428	Poplar, Northwest	Roosevelt	76,476	4,355,991
Malcolm Creek	Sheridan	0	11,450	Poplar, Southeast	Roosevelt	0	162,546
Mason Lake	Musselshell	1,097	1,006,249	Prairie Dell	Toole	0	1,575
Mason Lake, North	Musselshell	0	17,923	Prairie Elk	McCone	0	104,226
McCabe	Roosevelt	4,052	278,172	Richard Creek	Toole	0	164,444
McCabe, East	Roosevelt	21,028	54,585	Pronghorn	Sheridan	4,272	481,376
McCabe, South	Roosevelt	0	6,599	Putnam	Richland	94,516	5,628,939
McCabe, West	Roosevelt	0	69,988	Rabbit Hills	Blaine	118,559	2,162,766
McCoy Creek	Sheridan	2,141	71,559	Rabbit Hills, South	Blaine	27,688	94,927
Meander	Pondera	208	7,588	Ragged Point	Musselshell	959	2,609,855
Medicine Lake	Sheridan	48,409	3,933,115	Ragged Point, Southwest	Musselshell	16,191	1,786,686
Medicine Lake, South	Sheridan	40,957	98,955	Rainbow	Richland	0	166,375
Melstone	Musselshell	30,289	3,995,850	Rattler Butte	Rosebud	70,679	1,377,598
Midby	Sheridan	0	70,172	Rattlesnake Butte	Petroleum	5,873	649,329
Midfork	Valley	38,986	648,525	Rattlesnake Coulee	Toole	0	91,024
Mineral Bench	Roosevelt	0	186,656	Raymond	Sheridan	64,090	5,439,700
Miners Coulee	Toole	33	153,089	Raymond, North	Sheridan	2,757	138,736
Missouri Breaks	Richland	8,294	432,984	Raymond, Northeast	Sheridan	0	120,687
Mon Dak, West	Richland	230,921	11,455,328	Reagan	Glacier	104,753	9,812,302
Mona	Richland	2,216	151,191	Red Bank	Roosevelt	37,224	2,255,070
Monarch	Fallon	250,475	7,316,854	Red Bank, South	Roosevelt	336	387,759
Mosser Dome	Yellowstone	1,346	434,337	Red Creek	Glacier	41,191	6,862,231
Musselshell	Musselshell	193	40,947	Red Fox	Roosevelt	0	380,137
Mustang	Richland	49,866	985,587	Red Water	Richland	10,859	123,051
Neiser Creek	Sheridan	27,195	500,215	Red Water, East	Richland	15,653	299,007
Nielsen Coulee	Daniels	-31	217,171	Redstone	Sheridan	1,480	470,793
Ninemile	Toole	0	61,762	Refuge	Sheridan	20,991	285,286
Nohly	Richland	199,673	7,383,050	Repeat	Carter	0	547,064
Nohly, South	Richland	252	125,334	Reserve	Sheridan	41,360	2,040,265
North Fork	Richland	9,577	607,356	Reserve II	Sheridan	1,581	217,909
Olje	Sheridan	0	163,449	Reserve, South	Sheridan	0	70,088
Ollie	Fallon	0	262,334	Richey	Dawson, McCone	0	2,030,144
Otis Creek	Richland	6,297	905,615	Richey Area, West	McCone	0	11,062
Otis Creek, South	Richland	2,322	293,164	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	131,612	7,377,223
Outlook	Sheridan	28,417	9,067,957	Ridgelawn, North	Richland	23,705	280,081
Outlook, South	Sheridan	0	693,151	RipRap Coulee	Roosevelt	20,797	827,433
Outlook, Southwest	Sheridan	5,418	116,549	River Bend	Richland	0	275,733
Outlook, West	Sheridan	27,444	975,831	Rocky Point	Roosevelt	14,275	588,569
Oxbow	Roosevelt	13,285	527,251	Roscoe Dome	Carbon	0	15,556
Oxbow II	Roosevelt	23,655	624,888	Rosebud	Rosebud	5,378	589,724
Palomino	Roosevelt	98,297	2,761,712	Rough Creek	Powder River	0	3,599
Pasture	Dawson	0	2,869	Royals	Dawson	6,082	362,120
Pasture Creek	Dawson	0	1,914	Royals, South	Dawson	0	3,082
Pelican	Sheridan	0	194,638	Rudyard	Hill	397	23,813
Pennel	Fallon	1,691,033	98,170,072	Runaway	Teton	0	4,532
Pete Creek	Toole	0	23,343	Rush Mountain	Sheridan	34,859	817,083
Phantom	Toole	0	43,585	Salt Lake	Sheridan	27,089	1,106,904
Pine	Dawson, Fallon, Prairie, Wibaux	729,727	116,106,017	Salt Lake, West	Sheridan	17,853	215,263
Pine, East	Wibaux	0	19,349	Sand Creek	Dawson	5,732	2,390,920
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	16,467	1,436,921
Police Coulee	Toole	0	14	Second Guess	Teton	1,480	23,206
Pondera	Pondera, Teton	164,779	27,628,820	Sheepherder	Musselshell	0	76,942
Pondera Coulee	Teton	1,456	103,784	Short Creek	Toole	2,195	3,465
Poplar, East	Roosevelt	91,517	46,648,396	Shotgun Creek	Roosevelt	44,421	703,947

1999 STATEMENT OF CRUDE OIL PRODUCTION - ALL MONTANA FIELDS

FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS	FIELD	COUNTY	1999 BARRELS	CUMULATIVE BARRELS
Shotgun Creek, North	Roosevelt	0	89,673	Waterhole Creek	Fallon	148,031	454,668
Sidney	Richland	21,886	3,507,159	Weed Creek	Yellowstone	1,538	620,783
Sidney, East	Richland	3,798	596,619	Weldon	McCone	0	7,050,531
Singletree	Roosevelt	0	373,992	West Butte	Toole	4,126	324,705
Sioux Pass	Richland	165,863	4,345,892	West Fork	Roosevelt	0	6,671
Sioux Pass, East	Richland	0	89,267	Weygand	Blaine	4,789	354,116
Sioux Pass, Middle	Richland	23,063	1,750,079	Whitlash	Liberty, Toole	25,757	5,598,904
Sioux Pass, North	Richland	119,359	4,869,534	Whitlash, West	Toole	0	132,632
Sioux Pass, South	Richland	1,927	308,049	Wibaux	Wibaux	0	23,580
Sioux Pass, West	Richland	36,795	138,741	Willow Creek, North	Musselshell	3,211	412,374
Smoke Creek	Daniels	0	100,305	Willow Ridge	Toole	1,174	61,989
Snake Creek	Roosevelt	19,012	40,078	Willow Ridge, South	Toole	0	3,267
Snoose Coulee	Liberty	0	6,861	Wills Creek, South	Fallon	93,479	1,667,065
Snowden	Roosevelt	0	1,938	Windmill	Richland	0	31,943
Snyder	Big Horn	806	477,292	Windy Ridge	Fallon	156,642	223,825
Soap Creek	Big Horn	33,172	2,982,506	Winnett Junction	Musselshell	15,582	1,076,239
Soap Creek, East	Big Horn	6,370	212,177	Wolf Creek	Roosevelt	0	1,979
South Fork	Richland	11,495	1,122,723	Wolf Springs	Yellowstone	10,741	4,852,248
Spring Lake	Richland	50,703	1,376,340	Wolf Springs, South	Yellowstone	6,754	906,838
Spring Lake, South	Richland	0	110,660	Woman's Pocket	Golden Valley	0	3,526
Spring Lake, West	Richland	2,933	74,285	Woodrow	Dawson	10,494	1,313,413
Stampede	Richland	5,073	400,455	Wrangler	Sheridan	21,177	747,643
Stampede, North	Richland	0	4,566	Wrangler, North	Sheridan	1,329	146,294
Stensvad	Musselshell,			Wright Creek	Powder River	5,375	361,601
	Rosebud	16,967	10,301,285	Yates	Wibaux	0	70,861
Studhorse	Garfield	504	202,703	Yellowstone	Dawson	0	39,405
Sumatra	Rosebud	117,659	45,904,516	Wildcat	Carbon	0	6,368
Sundown	Richland	1,101	36,345	Wildcat	Daniels	0	3,779
Sunnyhill	Sheridan	1,956	273,407	Wildcat	Dawson	0	1,489
Sunnyhill, West	Sheridan	0	194,871	Wildcat	Fallon	0	11,647
Target	Roosevelt	30,004	990,308	Wildcat	Garfield	0	468
Thirty Mile	Blaine	0	11,893	Wildcat	Glacier	0	48,412
Three Buttes	Richland	23,133	567,843	Wildcat	Hill	0	405
Tinder Box	Musselshell	16,878	39,679	Wildcat	Liberty	0	3,254
Tippy Buttes	Musselshell	0	126,246	Wildcat	McCone	0	12,575
Tule Creek	Roosevelt	19,191	8,430,432	Wildcat	Musselshell	0	925
Tule Creek, East	Roosevelt	2,745	2,054,872	Wildcat	Powder River	0	27,445
Tule Creek, South	Roosevelt	7,216	992,145	Wildcat	Richland	0	343,260
Two Medicine Creek	Glacier	0	10,249	Wildcat	Roosevelt	0	87,044
Two Waters	Richland	3,346	347,029	Wildcat	Sheridan	0	19,076
Utopia	Liberty	16,222	806,661	Wildcat	Stillwater	0	11,283
Vaux	Richland	101,674	5,229,325	Wildcat	Teton	0	9,324
Vida	McCone	0	264,988	Wildcat	Toole	0	36,379
Viking	Sheridan	0	160	Wildcat	Valley	0	447
Volt	Roosevelt	61,519	3,815,758	Wildcat	Wibaux	0	8,388
Wagon Box	Musselshell	0	32,379				
Wagon Trail	Richland	0	43,321				
Wakea	Sheridan	66,607	2,859,087	Statewide Totals		15,266,499	1,468,387,582

1999 WELL COMPLETIONS

OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Big Horn	003										
Redstone Gas Partners, LLC	NWNW	27 9S 40E		Federal 5	6	21215	Wildcat	01/08/99	381	0	0
Redstone Gas Partners, LLC	NESW	32 9S 39E		Federal 23W-3299	2	21218	CX	01/20/99	480	0	0
Redstone Gas Partners, LLC	NWNE	16 9S 41E		State 31W-1691	2	21225	Wildcat	09/01/98	819	0	0
Redstone Gas Partners, LLC	NWNE	32 9S 40E		Ripley 31EC-3290	6	21230	Wildcat	12/02/97	621	0	0
Redstone Gas Partners, LLC	SENE	35 9S 39E		Consol 22EC-3599	2	21231	CX	09/11/98	568	0	0
Redstone Gas Partners, LLC	SENE	30 9S 40E		Consol 42EW-3090	2	21232	CX	07/09/98	700	0	0
Redstone Gas Partners, LLC	SESE	30 9S 40E		Consol 44EB-3090	6	21233	Wildcat	06/11/98	805	0	0
Redstone Gas Partners, LLC	NESE	19 9S 40E		Consol 43EK-1990	2	21243	CX	06/26/98	630	0	0
Redstone Gas Partners, LLC	NENW	30 9S 40E		Consol 21EM-3090	2	21244	CX	10/30/97	339	0	0
Redstone Gas Partners, LLC	SESW	29 9S 40E		Consol 24EC-2990	3	21246	CX	07/17/98	403		
Redstone Gas Partners, LLC	SWSE	29 9S 40E		Consol 34M-2990	2	21254	CX	10/15/98	534	0	0
Redstone Gas Partners, LLC	SENE	32 9S 40E		Consol 22M-3290	2	21255	CX	10/09/98	562	0	0
Redstone Gas Partners, LLC	NENE	32 9S 40E		Consol 41M-3290	2	21256	CX	12/11/98	558	0	0
Redstone Gas Partners, LLC	NWNE	32 9S 40E		Consol 31M-3290	3	21257	CX	11/25/98	460	0	0
Redstone Gas Partners, LLC	NENW	32 9S 40E		Consol 21M-3290	2	21258	CX	09/25/98	519	0	0
Redstone Gas Partners, LLC	NWSE	31 9S 40E		Consol 33C-3190	3	21259	CX	09/22/99	40	0	0
Redstone Gas Partners, LLC	NWSE	31 9S 40E		Consol 33D-3190	2	21260	CX	09/11/98	292	0	0
Redstone Gas Partners, LLC	LT 6	31 9S 40E		Consol 34D-3190	2	21262	CX	09/17/98	339	0	0
Redstone Gas Partners, LLC	NESE	31 9S 40E		Ripley 43D-3190	2	21264	CX	09/28/98	294	0	0
Redstone Gas Partners, LLC	SWNE	31 9S 40E		Consol 32D-3190	2	21268	CX	10/03/99	235	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 42C-3190	2	21269	CX	07/13/99	757	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 42D-3190	2	21270	CX	09/04/98	342	0	0
Redstone Gas Partners, LLC	SESW	29 9S 40E		Consol 24C2-2990	2	21276	CX	08/06/98	700	0	0
Redstone Gas Partners, LLC	NESW	25 9S 39E		Consol 23C-2599	2	21282	CX	08/31/99	291	0	0
Redstone Gas Partners, LLC	NWSE	25 9S 39E		Consol 33C-2599	2	21284	CX	08/10/99	672	0	0
Redstone Gas Partners, LLC	SWSW	20 9S 40E		Consol 14C-2090	2	21285	CX	11/04/99	543	0	0
Redstone Gas Partners, LLC	NWSW	29 9S 40E		Consol 13C-2990	2	21288	CX	11/16/98	472	0	0
Redstone Gas Partners, LLC	SWSW	29 9S 40E		Consol 14C-2990	2	21289	CX	10/22/98	708	0	0
Redstone Gas Partners, LLC	NESW	29 9S 40E		Consol 23C-2990	2	21290	CX	10/22/98	643	0	0
Redstone Gas Partners, LLC	NWNE	30 9S 40E		Consol 31C-3090	2	21291	CX	09/30/99	673	0	0
Redstone Gas Partners, LLC	NESE	30 9S 40E		Consol 43C-3090	2	21294	CX	11/16/98	763	0	0
Redstone Gas Partners, LLC	SESE	30 9S 40E		Consol 44C-3090	2	21295	CX	12/30/98	762	0	0
Redstone Gas Partners, LLC	NWSE	29 9S 40E		Consol 33C-2990	2	21297	CX	12/29/98	623	0	0
Redstone Gas Partners, LLC	NWSE	36 9S 39E		State 33M-3699	2	21298	CX	10/27/99	482	0	0
Redstone Gas Partners, LLC	NWSE	36 9S 39E		State 33D2/3-3699	2	21299	CX	10/29/99	379	0	0
Redstone Gas Partners, LLC	SESE	36 9S 39E		State 44M-3699	2	21300	CX	11/03/99	460	0	0
Redstone Gas Partners, LLC	SESE	36 9S 39E		State 44D2/3-3699	2	21301	CX	11/01/99	341	0	0
Redstone Gas Partners, LLC	SESW	31 9S 40E		Consol 24C-3190	2	21302	CX	12/02/99	576	0	0
Redstone Gas Partners, LLC	SESW	31 9S 40E		Consol 24M-3190	2	21303	CX	12/03/99	510	0	0
Redstone Gas Partners, LLC	SESW	31 9S 40E		Consol 24D2/3-3190	2	21304	CX	12/07/99	369	0	0
Redstone Gas Partners, LLC	NWSE	31 9S 40E		Dewey 33M-3190	2	21305	CX	09/29/99	128	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 22C-3190	2	21306	CX	10/28/99	628	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 22M-3190	2	21307	CX	10/29/99	533	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 22D2/3-3190	2	21308	CX	11/01/99	397	0	0
Redstone Gas Partners, LLC	NWSW	31 9S 40E		Consol 13M-3190	2	21309	CX	10/24/99	509	0	0
Redstone Gas Partners, LLC	NWSW	31 9S 40E		Consol 13D2/3-3190	2	21310	CX	10/25/99	388	0	0
Redstone Gas Partners, LLC	SWSE	25 9S 39E		Consol 34C-2599	2	21312	CX	08/16/99	600	0	0
Redstone Gas Partners, LLC	NWSE	36 9S 39E		State 33D1-3699	2	21313	CX	10/30/99	249	0	0
Redstone Gas Partners, LLC	SESE	36 9S 39E		State 44D1-3699	2	21314	CX	11/01/99	660	0	0
Redstone Gas Partners, LLC	SWSW	30 9S 40E		Consol 14M-3090	2	21317	CX	09/20/99	636	0	0
Redstone Gas Partners, LLC	NWSE	25 9S 39E		Consol 33M-2599	2	21319	CX	08/11/99	446	0	0
Redstone Gas Partners, LLC	SWSE	25 9S 39E		Consol 34M-2599	2	21320	CX	08/17/99	403	0	0
Redstone Gas Partners, LLC	SENE	25 9S 39E		Consol 42M-2599	2	21321	CX	08/25/99	526	0	0
Redstone Gas Partners, LLC	SWSW	29 9S 40E		Consol 14D1-2990	2	21322	CX	10/07/99	215	0	0
Redstone Gas Partners, LLC	NWSW	25 9S 39E		Consol 13C-2599	2	21323	CX	09/10/99	671	0	0
Redstone Gas Partners, LLC	NWSW	25 9S 39E		Consol 13D-2599	2	21324	CX	08/30/99	339	0	0
Redstone Gas Partners, LLC	NWSW	25 9S 39E		Consol 13M-2599	2	21325	CX	09/13/99	418	0	0
Redstone Gas Partners, LLC	SESW	25 9S 39E		Consol 24C-2599	2	21326	CX	09/02/99	657	0	0
Redstone Gas Partners, LLC	SESW	25 9S 39E		Consol 24D-2599	2	21327	CX	09/07/99	308	0	0
Redstone Gas Partners, LLC	SESW	25 9S 39E		Consol 24M-2599	2	21328	CX	09/08/99	397	0	0
Redstone Gas Partners, LLC	NWNE	25 9S 39E		Consol 31D-2599	2	21329	CX	09/29/99	351	0	0
Redstone Gas Partners, LLC	NWNE	25 9S 39E		Consol 31M-2599	2	21330	CX	09/27/99	445	0	0
Redstone Gas Partners, LLC	SESW	32 9S 40E		Consol 22D1-3290	2	21331	CX	07/09/99	309	0	0
Redstone Gas Partners, LLC	NWNE	32 9S 40E		Consol 31D1-3290	2	21332	CX	07/23/99	297	0	0
Redstone Gas Partners, LLC	NENW	32 9S 40E		Consol 21D1-3290	2	21333	CX	07/01/99	247	0	0
Redstone Gas Partners, LLC	NENW	29 9S 40E		Consol 21C-2990	2	21334	CX	07/15/99	740	0	0
Redstone Gas Partners, LLC	SENE	29 9S 40E		Consol 22D2/3-2990	2	21335	CX	10/10/99	376	0	0
Redstone Gas Partners, LLC	SENE	29 9S 40E		Consol 22M-2990	2	21336	CX	10/12/99	503	0	0
Redstone Gas Partners, LLC	SESW	29 9S 40E		Consol 24D2/3-2990	2	21337	CX	07/08/99	321	0	0
Redstone Gas Partners, LLC	SESW	29 9S 40E		Consol 24M-2990	2	21338	CX	06/07/99	413	0	0
Redstone Gas Partners, LLC	NWSE	29 9S 40E		Consol 33D1/3-2990	2	21339	CX	06/17/99	467	0	0
Redstone Gas Partners, LLC	NWSE	29 9S 40E		Consol 33M-2990	2	21340	CX	07/09/99	435	0	0
Redstone Gas Partners, LLC	NWSW	30 9S 40E		Consol 13C-3090	2	21341	CX	09/16/99	665	0	0
Redstone Gas Partners, LLC	NWSW	30 9S 40E		Consol 13M-9030	2	21342	CX	09/14/99	502	0	0
Redstone Gas Partners, LLC	SWSW	30 9S 40E		Consol 14C-3090	2	21343	CX	09/22/99	865	0	0
Redstone Gas Partners, LLC	SWSW	30 9S 40E		Consol 14D-3090	2	21344	CX	09/20/99	528	0	0
Redstone Gas Partners, LLC	SENE	30 9S 40E		Consol 22M-3090	2	21345	CX	09/24/99	358	0	0
Redstone Gas Partners, LLC	NWNE	30 9S 40E		Consol 31D-3090	2	21346	CX	11/03/99	256	0	0
Redstone Gas Partners, LLC	NWNE	30 9S 40E		Consol 31M-3090	2	21347	CX	11/03/99	338	0	0
Redstone Gas Partners, LLC	NENE	30 9S 40E		Consol 41D-3090	2	21348	CX	10/08/99	252	0	0
Redstone Gas Partners, LLC	NENE	30 9S 40E		Consol 41M-3090	2	21349	CX	10/09/99	359	0	0
Redstone Gas Partners, LLC	NWSW	31 9S 40E		Consol 13D1-3190	2	21350	CX	10/26/99	220	0	0
Redstone Gas Partners, LLC	NENW	31 9S 40E		Consol 21C-3190	2	21351	CX	11/03/99	704	0	0
Redstone Gas Partners, LLC	NENW	31 9S 40E		Consol 21D1-3190	2	21352	CX	11/05/99	337	0	0
Redstone Gas Partners, LLC	NENW	31 9S 40E		Consol 21D2/3-3190	2	21353	CX	11/04/99	451	0	0
Redstone Gas Partners, LLC	NENW	31 9S 40E		Consol 21M-3190	2	21354	CX	11/04/99	576	0	0
Redstone Gas Partners, LLC	SENE	31 9S 40E		Consol 22D1-3190	2	21355	CX	10/27/99	220	0	0
Redstone Gas Partners, LLC	SESW	31 9S 40E		Consol 24D1-3190	2	21356	CX	12/10/99	212	0	0
Redstone Gas Partners, LLC	NENE	31 9S 40E		Consol 41D2/3-3190	2	21357	CX	08/02/99	441	0	0

1999 WELL COMPLETIONS

OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Redstone Gas Partners, LLC	SWNW	32 9S 40E	Consol 12D1-3290	2	21359	CX	Coal Bed Methane	07/23/99	204	0	0
Redstone Gas Partners, LLC	SENE	32 9S 40E	Consol 42M-3290	2	21361	CX	Coal Bed Methane	07/16/99	468	0	0
Redstone Gas Partners, LLC	SWSW	20 9S 40E	Consol 14M-2090	2	21363	CX	Coal Bed Methane	11/19/99	460	0	0
Redstone Gas Partners, LLC	NWNW	25 9S 39E	Consol 11C-2599	2	21364	CX	Coal Bed Methane	10/17/99	600	0	0
Redstone Gas Partners, LLC	NWNW	25 9S 39E	Consol 11D-2599	2	21365	CX	Coal Bed Methane	10/19/99	682	0	0
Redstone Gas Partners, LLC	NWNW	25 9S 39E	Consol 11M-2599	2	21366	CX	Coal Bed Methane	10/21/99	960	0	0
Redstone Gas Partners, LLC	NENW	25 9S 39E	Consol 21D-2599	2	21367	CX	Coal Bed Methane	08/18/99	410	0	0
Redstone Gas Partners, LLC	SWNE	25 9S 39E	Consol 32D-2599	2	21368	CX	Coal Bed Methane	08/23/99	396	0	0
Redstone Gas Partners, LLC	NWSE	25 9S 39E	Consol 33D-2599	2	21369	CX	Coal Bed Methane	08/13/99	361	0	0
Redstone Gas Partners, LLC	SENE	25 9S 39E	Consol 42C-2599	2	21370	CX	Coal Bed Methane	08/24/99	763	0	0
Redstone Gas Partners, LLC	SENE	25 9S 39E	Consol 42D-2599	2	21371	CX	Coal Bed Methane	08/27/99	432	0	0
Redstone Gas Partners, LLC	SESE	29 9S 40E	Consol 42D-2990	2	21372	CX	Coal Bed Methane	07/13/99	802	0	0
Redstone Gas Partners, LLC	NWNW	32 9S 40E	Consol 11C-3290	2	21373	CX	Coal Bed Methane	08/06/99	749	0	0
Redstone Gas Partners, LLC	NWNW	32 9S 40E	Consol 11D2/3-3290	2	21374	CX	Coal Bed Methane	08/09/99	412	0	0
Redstone Gas Partners, LLC	NWSW	2 9S 40E	Dewey 13C-3290	2	21375	CX	Coal Bed Methane	07/22/99	720	0	0
Redstone Gas Partners, LLC	SENE	32 9S 40E	Consol 22C-3290	2	21377	CX	Coal Bed Methane	07/07/99	803	0	0
Redstone Gas Partners, LLC	NWNE	32 9S 40E	Consol 31C-3290	2	21378	CX	Coal Bed Methane	07/20/99	650	0	0
Redstone Gas Partners, LLC	SENE	32 9S 40E	Consol 42C-3290	2	21379	CX	Coal Bed Methane	07/16/99	651	0	0
Redstone Gas Partners, LLC	SWSE	25 9S 39E	Consol 34D-2599	2	21381	CX	Coal Bed Methane	08/17/99	315	0	0
Redstone Gas Partners, LLC	NWSE	36 9S 39E	State 33C-3699	2	21390	CX	Coal Bed Methane	10/25/99	705	0	0
Redstone Gas Partners, LLC	SESE	36 9S 39E	State 44C-3699	2	21393	CX	Coal Bed Methane	09/04/99	185	0	0
Redstone Gas Partners, LLC	SWSW	19 9S 40E	Consol 14C-3699	2	21394	CX	Coal Bed Methane	11/07/99	593	0	0
Redstone Gas Partners, LLC	SWSW	19 9S 40E	Consol 14D-1990	2	21395	CX	Coal Bed Methane	11/05/99	240	0	0
Redstone Gas Partners, LLC	SWSW	19 9S 40E	Consol 14M-1990	2	21396	CX	Coal Bed Methane	11/04/99	354	0	0
Redstone Gas Partners, LLC	SWSE	19 9S 40E	Consol 34C-1990	2	21397	CX	Coal Bed Methane	10/29/99	625	0	0
Redstone Gas Partners, LLC	SWSE	19 9S 40E	Consol 34D-1990	2	21398	CX	Coal Bed Methane	11/01/99	301	0	0
Redstone Gas Partners, LLC	SWSE	19 9S 40E	Consol 34M-1990	2	21399	CX	Coal Bed Methane	10/27/99	400	0	0
Redstone Gas Partners, LLC	NESE	19 9S 40E	Consol 43D-1990	2	21400	CX	Coal Bed Methane	10/02/99	321	0	0
Redstone Gas Partners, LLC	NESE	19 9S 40E	Consol 43M-1990	2	21401	CX	Coal Bed Methane	10/01/99	424	0	0
Redstone Gas Partners, LLC	NWSW	30 9S 40E	Consol 13D-3090	2	21402	CX	Coal Bed Methane	09/15/99	382	0	0
Redstone Gas Partners, LLC	NWSW	29 9S 40E	Consol 13D2/3-2990	2	21403	CX	Coal Bed Methane	10/07/99	378	0	0
Redstone Gas Partners, LLC	NENW	30 9S 40E	Consol 21C-3090	2	21404	CX	Coal Bed Methane	09/26/99	662	0	0
Redstone Gas Partners, LLC	SENE	30 9S 40E	Consol 22D-3090	2	21406	CX	Coal Bed Methane	09/24/99	275	0	0
Redstone Gas Partners, LLC	SESE	30 9S 40E	Consol 44M-3090	2	21407	CX	Coal Bed Methane	09/18/99	580	0	0
Redstone Gas Partners, LLC	NWSW	31 9S 40E	Consol 13C-3190	2	21408	CX	Coal Bed Methane	10/23/99	905	0	0
Redstone Gas Partners, LLC	NENE	31 9S 40E	Consol 41D1-3190	2	21409	CX	Coal Bed Methane	08/04/99	300	0	0
Redstone Gas Partners, LLC	NENE	31 9S 40E	Consol 41M-3190	2	21410	CX	Coal Bed Methane	07/30/99	553	0	0
Redstone Gas Partners, LLC	NWNE	32 9S 40E	Consol 31M3-3290	2	21411	CX	Coal Bed Methane	12/04/99	461	0	0
Redstone Gas Partners, LLC	SENE	22 9S 39E	Consol 22M-2299	2	21412	CX	Coal Bed Methane	09/18/99	672	0	0
Redstone Gas Partners, LLC	SENE	34 9S 39E	Consol 42D-3499	2	21413	CX	Coal Bed Methane	11/23/99	493	0	0
Redstone Gas Partners, LLC	NWNW	35 9S 39E	Consol 11D-3599	2	21414	CX	Coal Bed Methane	11/19/99	380	0	0
Redstone Gas Partners, LLC	NWSE	9 9S 41E	Holmes 33M-991	2	21417	Wildcat	Coal Bed Methane	09/10/99	444	0	0
Redstone Gas Partners, LLC	NWSW	20 9S 41E	Holmes 13M-2091	2	21418	Wildcat	Coal Bed Methane	09/16/99	709	0	0
Redstone Gas Partners, LLC	SWSW	20 9S 40E	Consol 14D-2090	2	21432	CX	Coal Bed Methane	11/14/99	298	0	0
Redstone Gas Partners, LLC	SESE	30 9S 40E	Consol 44D1-3090	2	21445	CX	Coal Bed Methane	11/22/99	356	0	0
Redstone Gas Partners, LLC	SESE	30 9S 40E	Consol 44D2/3-3090	2	21446	CX	Coal Bed Methane	11/17/99	545	0	0
Redstone Gas Partners, LLC	NWSE	31 9S 40E	Consol 33C2-3190	2	21467	CX	Coal Bed Methane	09/30/99	645	0	0

Blaine 005

Brown, J. Burns Operating Co.	SENE	30 34N 18E	Federal 30-34-18	5	22729	Red Rock	Eagle	08/25/99	1600	0	60
Brown, J. Burns Operating Co.	SWSW	3 6 35N 17E	State 36-35-17	6	22799	Wildcat		11/19/98	5150	0	0
Brown, J. Burns Operating Co.	NENW	1 34N 18E	Ruden 1-34-18	6	22800	Wildcat		11/11/98	1550	0	0
Brown, J. Burns Operating Co.	SWNW	16 34N 18E	State 16-34-18	6	22801	Wildcat		11/05/98	1550	0	0
Brown, J. Burns Operating Co.	NWNW	24 34N 17E	Wilmes 24-34-17	6	22802	Wildcat		11/02/98	1490	0	0
Brown, J. Burns Operating Co.	SWSW	3 3 35N 18E	Williams 33-35-18	6	22804	Wildcat		11/05/98	1550	0	0
Brown, J. Burns Operating Co.	NWSE	19 35N 18E	Wallin 19-35-18	6	22805	Wildcat		11/07/98	1550	0	0
Brown, J. Burns Operating Co.	NWSW	21 35N 18E	Wallin 21-35-18	6	22806	Wildcat		11/07/98	1550	0	0
Brown, J. Burns Operating Co.	SWNW	14 34N 18E	Allison 14-34-18	5	22807	Wildcat	Eagle	11/14/98	1020	0	0
Brown, J. Burns Operating Co.	NESW	25 35N 18E	Listou 25-35-18	6	22808	Wildcat		11/08/98	1550	0	0
Brown, J. Burns Operating Co.	NESW	13 34N 18E	Stuker 13-34-18	5	22830	Wildcat	Eagle	10/15/99	1550	0	700
Brown, J. Burns Operating Co.	NWSW	13 34N 17E	Hanson 13-34-17	6	22841	Wildcat		10/18/99	1552	0	0
Brown, J. Burns Operating Co.	SENE	26 34N 17E	Federal 26-34-17	5	22843	Red Rock	Eagle	07/10/99	1445	0	275
Brown, J. Burns Operating Co.	SWSE	1 9 35N 18E	Wallin 19-35-18B	5	22859	Red Rock	Eagle	09/09/99	1556	0	1336
Brown, J. Burns Operating Co.	NWNE	31 35N 18E	Wallin 31-35-18	6	22869	Wildcat		10/24/99	1500	0	0
Brown, J. Burns Operating Co.	SESW	3 3 35N 18E	Williams 33-35-18B	6	22872	Wildcat		10/22/99	1550	0	0
Brown, J. Burns Operating Co.	NWSW	24 34N 17E	Wilmes 24-34-17	5	22874	Wildcat	Eagle	10/20/99	1550	0	750
Klabzuba Oil & Gas, Inc.	N2SW	3 1 34N 19E	State 31-34-19	5	22832	Red Rock	Eagle	05/09/99	1650	0	665
Klabzuba Oil & Gas, Inc.	NWSE	36 34N 18E	Montana 36-34-18	5	22856	Red Rock	Eagle	10/02/99	1652	0	500
Klabzuba Oil & Gas, Inc.	NWSE	32 34N 19E	Lodge Creek 32-34-19	5	22857	Red Rock	Eagle	08/20/99	1650	0	175
Klabzuba Oil & Gas, Inc.	SESW	3 0 34N 19E	Lodge Creek 30-34-19	5	22887	Red Rock	Eagle	11/17/99	1719	0	35
Klabzuba Oil & Gas, Inc.	SESE	10 33N 17E	Baltrusch 10-33-17	6	22889	Wildcat		11/19/99	1715	0	0
Ocean Energy Resources, Inc.	SESW	1 3 31N 17E	Ramberg 13-14	3	22868	Tiger Ridge		09/22/99	1800	0	0
Ocean Energy, Inc.	SWNE	2 30N 17E	Ross 2-7	2	22760	Tiger Ridge	Eagle	08/19/98	1650	0	25
Ocean Energy, Inc.	NENW	11 30N 17E	Blackwood 11-3	2	22768	Tiger Ridge	Eagle	07/31/98	1710	0	128
Ocean Energy, Inc.	SWNW	22 27N 18E	Moore 22-5X	2	22803	Sawtooth Mtn & Area		10/17/98	2200	0	100
Ocean Energy, Inc.	NWSE	12 27N 18E	Moore 12-10	3	22809	Sawtooth Mtn & Area		05/13/99	2125	0	0
Ocean Energy, Inc.	SESE	1 1 27N 18E	Moore 11-16	2	22810	Sawtooth Mtn & Area	Eagle	05/26/99	2200	0	603
Ocean Energy, Inc.	NESE	15 27N 18E	US 15-9	2	22811	Sawtooth Mtn & Area	Eagle	07/17/99	2275	0	284
Ocean Energy, Inc.	NWNE	21 27N 18E	US 21-2	2	22812	Sawtooth Mtn & Area	Eagle	07/18/99	2475	0	583
Ocean Energy, Inc.	SWSW	3 3 28N 19E	Dowen 33-13	3	22813	Sawtooth Mtn & Area		04/22/99	1850	0	0
Ocean Energy, Inc.	NESW	1 27N 18E	Read 1-11	2	22814	Sawtooth Mtn & Area	Eagle	07/24/99	2325	0	752
Ocean Energy, Inc.	NWSE	13 27N 18E	Moore 13-10	5	22815	Sawtooth Mtn & Area	Eagle	06/02/99	2075	0	1218
Ocean Energy, Inc.	NWSW	13 27N 18E	Moore 13-12	2	22816	Sawtooth Mtn & Area	Eagle	06/15/99	2045	0	358
Ocean Energy, Inc.	SENE	14 27N 18E	Moore 14-8	2	22817	Sawtooth Mtn & Area	Eagle	06/11/99	2050	0	224
Ocean Energy, Inc.	SESW	14 27N 18E	Moore 14-14	3	22818	Sawtooth Mtn & Area		06/16/99	2150	0	0
Ocean Energy, Inc.	SENE	5 27N 19E	Dunbar 5-8	2	22819	Sawtooth Mtn & Area	Eagle	05/01/99	2000	0	93
Ocean Energy, Inc.	NESE	21 27N 18E	Moore 21-9	2	22821	Sawtooth Mtn & Area	Eagle	06/27/99	2400	0	1145
Ocean Energy, Inc.	NESW	28 27N 18E	Moore 28-11	2	22822	Sawtooth Mtn & Area	Eagle	07/06/99	2600	0	1215
Ocean Energy, Inc.	NWSW	2 30N 17E	Ross 2-12	3	22824	Tiger Ridge		06/15/99	1650	0	0
Ocean Energy, Inc.	SWNW	35 31N 17E	Ross 35-5	2	22825	Tiger Ridge	Eagle	06/01/99	1700	0	190

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OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Ocean Energy, Inc.	SENE	35 31N 17E	Ross 35-8	2	22826	Tiger Ridge	Eagle	06/15/99	1650	0	162
Ocean Energy, Inc.	SESW	3 30N 17E	US 3-14	2	22833	Tiger Ridge	Eagle	08/23/99	2000	0	322
Ocean Energy, Inc.	NESW	32 31N 18E	Dehlborn 32-11A	3	22834	Tiger Ridge		06/13/99	1675	0	0
Ocean Energy, Inc.	SWNE	26 31N 17E	US 26-7	2	22835	Tiger Ridge	Eagle	08/26/99	1525	0	67
Ocean Energy, Inc.	SENE	6 27N 19E	Dunbar 6-8	2	22836	Sawtooth Mtn & Area	Eagle	08/02/99	2100	0	546
Ocean Energy, Inc.	SWSE	16 27N 19E	State 16-15A	3	22837	Sawtooth Mtn & Area		07/30/99	1700	0	0
Ocean Energy, Inc.	SESE	13 27N 19E	State 13-16	2	22839	Sawtooth Mtn & Area	Eagle	08/05/99	1525	0	730
Ocean Energy, Inc.	SWSW	26 31N 18E	Roberts 26-13	3	22845	Tiger Ridge		07/17/99	1950	0	0
Ocean Energy, Inc.	SENE	27 31N 18E	Paulsen 27-8	2	22846	Tiger Ridge	Eagle	07/19/99	1950	0	164
Ocean Energy, Inc.	NENW	5 30N 18E	Kane 5-3	2	22847	Tiger Ridge	Eagle	08/22/99	1600	0	345
Ocean Energy, Inc.	NESW	5 30N 18E	Blackwood 5-11	2	22848	Tiger Ridge	Eagle	08/20/99	1600	0	226
Ocean Energy, Inc.	SENE	8 30N 18E	Kane 8-8	2	22849	Tiger Ridge	Eagle	07/29/99	1800	0	323
Ocean Energy, Inc.	NESW	8 30N 18E	Kane 8-11	2	22850	Tiger Ridge	Eagle	08/02/99	1800	0	186
Ocean Energy, Inc.	NWSW	8 30N 18E	Blackwood 8-12	2	22851	Tiger Ridge	Eagle	08/14/99	1800	0	176
Ocean Energy, Inc.	SENE	10 30N 18E	Hofeldt 10-8	2	22852	Tiger Ridge	Eagle	08/04/99	1750	0	53
Ocean Energy, Inc.	SWNW	11 30N 18E	Hofeldt 11-5	3	22853	Tiger Ridge		11/12/99	1750	0	0
Ocean Energy, Inc.	SWSW	5 30N 18E	Blackwood 5-13	2	22854	Tiger Ridge	Eagle	08/12/99	1650	0	151
Ocean Energy, Inc.	SESW	35 31N 18E	Blackwood 35-14	2	22855	Tiger Ridge	Eagle	07/25/99	1700	0	21
Ocean Energy, Inc.	SENE	9 30N 18E	Hofeldt 9-8	2	22866	Tiger Ridge	Eagle	10/07/99	1800	0	717
Ocean Energy, Inc.	SWNE	34 31N 18E	Dehlborn 34-7	2	22867	Tiger Ridge	Eagle	10/05/99	1702	0	64
Xeno Inc	SWSE	1 35N 19E	Chouteau 15-1	2	22875	Battle Creek	Eagle	11/01/99	1830	0	200
Xeno Inc	NWNE	2 35N 19E	Chouteau 2-2	2	22876	Battle Creek	Eagle	10/27/99	1845	0	193
Xeno Inc	NENE	11 35N 19E	Chouteau 1-11	2	22877	Battle Creek	Eagle	11/05/99	1876	0	0
Xeno Inc	SESW	15 36N 19E	Battle 14A-15	2	22878	Battle Creek	Eagle	10/26/99	1920	0	185
Xeno Inc	SENE	27 36N 19E	Battle 6A-27	2	22879	Battle Creek	Eagle	10/29/99	1820	0	185
Xeno Inc	SWSW	35 36N 19E	Battle 13-35	2	22880	Battle Creek	Eagle	10/25/99	1860	0	250
Xeno Inc	NWNE	21 36N 19E	Battle 7-21	2	22881	Battle Creek	Eagle	11/02/99	1675	0	230
Xeno Inc	NESW	21 36N 19E	Battle 11-21	2	22882	Battle Creek	Eagle	11/04/99	1865	0	250
Xeno Inc	SWNE	26 36N 19E	Battle 7-26	2	22883	Battle Creek	Eagle	10/31/99	1830	0	165
Xeno Inc	NENW	34 36N 19E	Battle 3-34	2	22884	Battle Creek	Eagle	11/06/99	1790	0	225
Xeno Inc	NWNE	7 35N 20E	E Chouteau 2-7	2	22885	Battle Creek	Eagle	11/03/99	1830	0	125
Xeno Inc	NWSE	33 36N 19E	Battle 10A-33	2	22886	Battle Creek	Niobrara	11/09/99	2190	0	285
Carbon 009											
Howell Petroleum Corp.	NWSW	36 9S 23E	Federal 24 ReEntry	1	05020	Elk Basin	Embar/Tensleep	11/15/99	6246	184	0
Howell Petroleum Corp.	SESW	36 9S 23E	Federal 187 ReEntry	1	05384	Elk Basin	Embar/Tensleep	11/15/99	6474	10	0
Howell Petroleum Corp.	NWSW	27 9S 23E	Federal 27-1	1	21256	Elk Basin	Frontier	12/12/99	2979	7	8
KGH Operation Co.	SWNW	11 7S 21E	Dry Creek 11-5	2	21258	Dry Creek	Eagle	12/11/99	2300	0	823
Carter 011											
Armstrong Operating, Inc.	NWNW	25 1N 61E	Johnson 25-1	6	21343	Wildcat		10/24/99	3066	0	0
Chouteau 015											
Coastal Oil & Gas Corporation	NWSW	22 27N 16E	Weaver 22-12	2	21687	Bullwacker	Eagle	08/17/99	2500	0	307
Kee Sun Corporation	NESE	18 26N 6E	S Higgins 9-18	6	21692	Wildcat		10/28/99	2614	0	0
Ocean Energy, Inc.	NWSW	30 27N 16E	Faber 30-10	2	21679	Bullwacker	Eagle	08/22/99	1970	0	229
Ocean Energy, Inc.	NWNE	31 27N 16E	Faber 31-2	3	21680	Bullwacker		09/08/99	3050	0	0
Ocean Energy, Inc.	SWNW	20 27N 17E	US 20-5	2	21681	Bullwacker	Eagle	09/14/99	2600	0	22
Ocean Energy, Inc.	NWNW	33 27N 17E	US 33-4	2	21682	Bullwacker	Eagle	10/14/99	235	0	546
Ocean Energy, Inc.	NENE	19 27N 17E	US 19-1	2	21683	Bullwacker	Eagle	10/02/99	2700	0	0
Ocean Energy, Inc.	NWNE	20 27N 17E	Henderson 20-2	2	21684	Bullwacker	Eagle	09/24/99	3000	0	205
Ocean Energy, Inc.	SENE	32 27N 17E	Olson 32-8	2	21685	Bullwacker	Eagle	10/19/99	2420	0	45
Ocean Energy, Inc.	NWSW	19 27N 17E	Henderson 19-12	2	21686	Bullwacker	Eagle	10/08/99	2350	0	72
Ocean Energy, Inc.	NWNE	28 27N 16E	Kane 28-2	2	21688	Bullwacker	Eagle	08/20/99	2350	0	363
Ocean Energy, Inc.	SWNW	29 27N 16E	Faber 29-5	3	21691	Bullwacker		09/01/99	3300	0	0
Western Interior Energy, Inc.	LT 4	3 24N 12E	A/T 1-3	5	21678	Wildcat	Colorado Shale	05/25/99	4148	0	50
Daniels 019											
HS Resources, Inc.	NWNE	17 35N 45E	Rustebakke 2-17H	6	21136	Wildcat		10/28/99	9235	0	0
Fallon 025											
Burlington Resources Oil & Gas	SENE	34 7N 60E	ELOB 42-34EHR ReEntry	1	21406	Lookout Butte East	Red River	06/15/99	10154	110	0
Burlington Resources Oil & Gas	SENE	11 6N 60E	ELOB 42-11NR ReEntry	1	21417	Lookout Butte East	Red River	05/22/99	10885	22	3
Burlington Resources Oil & Gas	NWSW	11 7N 60E	ELOB 13-11HR Lateral	1	21472	Lookout Butte East	Red River	06/26/99	18016	205	62
Burlington Resources Oil & Gas	SWSW	7 6N 61E	ELOB 14-7NH	1	21782	Lookout Butte East	Red River	01/19/99	15332	97	15
Burlington Resources Oil & Gas	SWSW	25 7N 60E	ELOB 14-25NH	1	21784	Lookout Butte East	Red River	10/29/98	16152	69	50
Burlington Resources Oil & Gas	NENE	35 7N 60E	ELOB 41-35 H	1	21796	Lookout Butte East	Red River	01/16/99	15700	125	28
Burlington Resources Oil & Gas	NENE	10 7N 60E	ELOB 41-10 NH	1	21797	Lookout Butte East	Red River	05/07/99	15251	60	18
Burlington Resources Oil & Gas	NESE	24 7N 60E	ELOB 43-24 NH	1	21798	Lookout Butte East	Red River	01/09/99	15480	65	8
Burlington Resources Oil & Gas	NESE	24 7N 60E	ELOB 43-24 SH	1	21799	Lookout Butte East	Red River	02/24/99	12631	93	43
Burlington Resources Oil & Gas	SWSW	18 7N 61E	ELOB 14-18NH	1	21815	Lookout Butte East	Red River	02/13/99	15053	48	901
Burlington Resources Oil & Gas	SWNW	13 7N 60E	ELOB 12-13NH	1	21816	Lookout Butte East	Red River	03/19/99	15075	140	100
Burlington Resources Oil & Gas	SWSE	13 7N 60E	ELOB 34-13NH	1	21820	Lookout Butte East	Red River	03/25/99	16080	70	26
Burlington Resources Oil & Gas	SWSE	13 7N 60E	ELOB 31-13SH	1	21821	Lookout Butte East	Red River	02/23/99	15304	105	74
Burlington Resources Oil & Gas	SWNW	13 7N 60E	ELOB 12-13SH	1	21822	Lookout Butte East	Red River	04/13/99	15034	0	0
Burlington Resources Oil & Gas	SWNW	36 7N 60E	ELOB 12-36SH	1	21823	Lookout Butte East	Red River	03/15/99	13525	110	12
Burlington Resources Oil & Gas	NESE	11 7N 60E	ELOB 43-11NH	1	21825	Lookout Butte East	Red River	08/26/99	14305	195	59
Burlington Resources Oil & Gas	NESE	11 7N 60E	ELOB 43-11SH	1	21826	Lookout Butte East	Red River	04/17/99	14120	175	53
Burlington Resources Oil & Gas	NWSW	3 7N 60E	ELOB 13-3SH	1	21828	Lookout Butte East	Red River	04/30/99	11895	43	16
Burlington Resources Oil & Gas	SWSE	3 7N 60E	ELOB 34-3SH	1	21829	Lookout Butte East	Red River	04/14/99	14126	118	35
Burlington Resources Oil & Gas	SWSE	3 7N 60E	ELOB 34-3NH	1	21830	Lookout Butte East	Red River	05/22/99	14593	103	31
Burlington Resources Oil & Gas	SWSW	34 8N 60E	ELOB 14-34NH	1	21831	Lookout Butte East	Red River	05/09/99	15656	127	29
Burlington Resources Oil & Gas	SWNW	11 7N 60E	ELOB 12-11NH	1	21833	Lookout Butte East	Red River	07/30/99	15353	160	49
Burlington Resources Oil & Gas	SWNW	11 7N 60E	ELOB 12-11SH	1	21834	Lookout Butte East	Red River	05/16/99	13096	137	41

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OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Burlington Resources Oil & Gas	NENW	9 6N 61E	ELOB 21-9SH	1	21841	Lookout Butte East	Red River	06/10/99	14967	179	32
Burlington Resources Oil & Gas	NWNE	4 7N 60E	ELOB 32-4NH	1	21843	Lookout Butte East	Red River	11/21/99	16814	170	48
Burlington Resources Oil & Gas	NENE	31 9N 59E	Monarch 41-31H	1	21852	Monarch	Red River	10/16/99	13836	195	0
Burlington Resources Oil & Gas	SWNW	3 7N 60E	ELOB 11-3SH	1	21857	Lookout Butte East	Red River	12/03/99	13280	205	103
Burlington Resources Oil & Gas	SWNW	3 7N 60E	ELOB 12-3NH760	1	21858	Lookout Butte East	Red River	12/16/99	14268	87	46
Continental Resources Inc	SWSW	22 7N 61E	Bonita 1-22F	1	21718	Windy Ridge	Red River	01/11/99	12704	53	0
Encore Operating, LP	SENE	18 7N 60E	Unit 22X-18BR	7	21844	Pennel		10/08/99	8978	0	0
Sands Oil Company	SWSW	5 4N 61E	BR 14-5	5	21808	Wildcat	Eagle	08/16/99	1855	0	130
WBI Production, Inc.	SWNW	18 4N 62E	Federal 2099	2	21810	Cedar Creek	Eagle	06/29/99	1900	0	820
Williston Basin Interstate	NENW	2 5N 60E	Federal 2066	2	21730	Cedar Creek	Eagle	08/03/99	1950	0	10
Williston Basin Interstate	NENW	30 5N 61E	Fee 2079	2	21758	Cedar Creek	Eagle	06/29/99	1850	0	900
Williston Basin Interstate	NENE	32 7N 60E	Federal 2034	2	21770	Cedar Creek	Eagle	06/25/99	1900	0	1640
Williston Basin Interstate	SWSW	14 8N 59E	Federal 2087	2	21771	Cedar Creek	Eagle	08/11/99	1950	0	690
Williston Basin Interstate	SWNE	16 6N 60E	State 2054	2	21773	Cedar Creek	Eagle	06/28/99	1950	0	1000
Williston Basin Interstate	SWNE	10 9N 58E	Fee 2026	2	21777	Cedar Creek	Eagle	08/03/99	1950	0	107
Williston Basin Interstate	NENW	34 5N 61E	Federal 2084	2	21787	Cedar Creek	Eagle	08/15/99	1900	0	1450
Williston Basin Interstate	SENE	10 6N 60E	Federal 2018	2	21788	Cedar Creek	Eagle	08/03/99	1980	0	730
Williston Basin Interstate	SWSE	10 6N 60E	Federal 2020	2	21789	Cedar Creek	Eagle	06/25/99	1950	0	795
Williston Basin Interstate	SWNE	10 6N 60E	Federal 2039	2	21790	Cedar Creek	Eagle	06/25/99	1950	0	950
Williston Basin Interstate	SESW	10 6N 60E	Federal 2040	2	21791	Cedar Creek	Eagle	06/26/99	1950	0	900
Williston Basin Interstate	SWNE	26 6N 60E	Federal 2059	2	21792	Cedar Creek	Eagle	06/26/99	1900	0	963
Williston Basin Interstate	NESE	26 6N 60E	Federal 2060	2	21793	Cedar Creek	Eagle	06/26/99	1950	0	1000
Williston Basin Interstate	SWNW	16 5N 61E	State 2073	2	21800	Cedar Creek	Eagle	08/14/99	1850	0	560
Williston Basin Interstate	SESE	16 5N 61E	State 2101	2	21801	Cedar Creek	Eagle	08/14/99	1850	0	680
Williston Basin Interstate	NWNW	27 5N 61E	Fee 2080	2	21802	Cedar Creek	Eagle	08/15/99	1900	0	1720
Williston Basin Interstate	NWSE	27 5N 61E	Fee 2102	2	21803	Cedar Creek	Eagle	08/15/99	1900	0	1550
Williston Basin Interstate	NWNW	33 5N 61E	Fee 2083	2	21804	Cedar Creek	Eagle	06/30/99	1900	0	615
Williston Basin Interstate	NWSE	33 5N 61E	Fee 2086	2	21805	Cedar Creek	Eagle	06/29/99	1900	0	870
Williston Basin Interstate	NWSW	29 6N 61E	Fee 2095	2	21807	Cedar Creek	Eagle	08/13/99	1900	0	194
Williston Basin Interstate	NENW	12 4N 61E	Federal 2098	2	21809	Cedar Creek	Eagle	06/29/99	1900	0	610
Williston Basin Interstate	SWNW	20 4N 62E	Federal 2100	2	21811	Cedar Creek	Eagle	06/29/99	1900	0	620
Williston Basin Interstate	NWSE	34 5N 61E	Federal 2103	2	21812	Cedar Creek	Eagle	06/30/99	1900	0	690
Williston Basin Interstate	SWNE	11 6N 60E	Fee 2090	2	21817	Cedar Creek	Eagle	08/03/99	1950	0	166
Williston Basin Interstate	NWSE	11 6N 60E	Fee 2090	2	21818	Cedar Creek	Eagle	08/14/99	1950	0	538
Williston Basin Interstate	SWSE	4 6N 60E	Federal 2052	2	21827	Cedar Creek	Eagle	08/13/99	1980	0	660
Williston Basin Interstate	SWNE	4 6N 60E	Federal 2050	2	21839	Cedar Creek	Eagle	08/11/99	1980	0	363
Williston Basin Interstate	NWNW	4 6N 60E	Fee 475	2	21840	Cedar Creek	Eagle	08/11/99	1980	0	570
Williston Basin Interstate	SWSW	4 6N 60E	Federal 2051	2	21842	Cedar Creek	Eagle	08/13/99	1980	0	500
Garfield 033											
Great Plains Resources Inc.	NWNW	26 15N 30E	Federal 4-26	3	21153	Cat Creek,	Mosby Dome	09/25/99	2210	0	0
Macum Energy Inc.	NWSW	18 15N 35E	Fitch 13-18	6	21154	Wildcat		07/15/99	5516	0	0
Glacier 035											
Mercury Exploration Co.	SENE	8 33N 5W	Whetstone 37-7	1	21977	Cut Bank	Cut Bank	07/10/99	2949	5	0
Mercury Exploration Co.	SWSE	17 33N 5W	Fuller 47-7	1	21978	Cut Bank	Cut Bank	07/17/99	3030	0	0
Mercury Exploration Co.	NWSE	18 33N 5W	Barrington 49-14	3	21979	Cut Bank		07/28/99	3120	0	0
Mercury Exploration Co.	SENE	18 33N 5W	Jacobson 38-13	1	21980	Cut Bank	Cut Bank	06/27/99	3110	5	0
Mercury Exploration Co.	NESE	13 33N 6W	Barrington 54-10	1	21981	Cut Bank	Cut Bank	07/31/99	3088	0	0
Montana Power Company	NENW	1 36N 5W	Berkram 3-1	3	21976	Cut Bank		04/17/99	2799	0	0
Hill 041											
Brown, J. Burns Operating Co.	NWNW	26 34N 14E	DeWald 26-34-14	3	22663	Browns Coulee		11/17/98	1550	0	0
Brown, J. Burns Operating Co.	NWNW	26 34N 14E	DeWald 26-34-14B	2	22697	Browns Coulee	Eagle	07/08/99	1500	0	100
Klabzuba Oil & Gas, Inc.	N2SE	31 36N 16E	Bob's Farm 31-36-16	5	22648	Red Rock	Niobrara	09/02/99	2500	0	3
Klabzuba Oil & Gas, Inc.	SWSW	9 33N 17E	Baltrusch 9-33-17	5	22661	Red Rock	Eagle	07/16/99	1600	0	415
Klabzuba Oil & Gas, Inc.	NWNE	12 35N 15E	Shrauger 12-35-15	5	22684	Red Rock	Eagle	04/17/99	2100	0	633
Klabzuba Oil & Gas, Inc.	SWNE	13 34N 14E	Velk 13-34-14	5	22687	Browns Coulee, East	Eagle	10/08/99	1705	0	660
Klabzuba Oil & Gas, Inc.	N2NW	1 35N 15E	Bob's Farm 1-35-15	5	22690	Red Rock	Eagle	09/04/99	1617	0	995
Klabzuba Oil & Gas, Inc.	SWNW	2 32N 13E	Dees 2-32-13	5	22692	Wildcat	Eagle	08/09/99	1616	0	90
Klabzuba Oil & Gas, Inc.	NWNE	24 35N 15E	McIntosh 24-35-15	5	22693	Red Rock	Eagle	08/11/99	1802	0	400
Klabzuba Oil & Gas, Inc.	NENE	16 35N 16E	Prestrud 16-35-16	6	22694	Wildcat		09/09/99	2212	0	0
Klabzuba Oil & Gas, Inc.	SWSE	19 36N 15E	Campbell 19-36-15	6	22695	Wildcat		08/28/99	2580	0	0
Klabzuba Oil & Gas, Inc.	SWSE	36 36N 15E	State 36-36-15	5	22696	Red Rock	Eagle	08/18/99	1804	0	98
Ocean Energy Resources, Inc.	NENW	1 31N 17E	O'Neil 1-3	3	22730	Tiger Ridge		09/24/99	1600	0	0
Ocean Energy Resources, Inc.	SWSW	4 31N 17E	Wiley 4-13	2	22731	Tiger Ridge	Eagle	09/25/99	1600	0	134
Ocean Energy, Inc.	SWNE	5 30N 15E	Herron 5-7	3	22611	Tiger Ridge		06/12/98	1423	0	0
Ocean Energy, Inc.	NESE	35 30N 15E	Rocky Boy 35-11	5	22644	Rocky Boy Area	Eagle	10/13/98	4485	0	75
Ocean Energy, Inc.	SWSE	19 30N 15E	Rocky Boy 19-15	2	22664	Tiger Ridge	Eagle	06/27/99	1550	0	59
Ocean Energy, Inc.	NWSW	20 30N 15E	Rocky Boy 20-12	3	22666	Tiger Ridge		06/28/99	1600	0	0
Ocean Energy, Inc.	SESW	20 30N 15E	Rocky Boy 20-14	2	22667	Tiger Ridge	Eagle	07/08/99	1725	0	178
Ocean Energy, Inc.	SWSE	20 30N 15E	Rocky Boy 20-15	2	22668	Tiger Ridge	Eagle	07/01/99	1643	0	1243
Ocean Energy, Inc.	NWSE	20 30N 15E	Rocky Boy 20-16	2	22669	Tiger Ridge	Eagle	07/13/99	1800	0	788
Ocean Energy, Inc.	SWNE	29 30N 15E	Rocky Boy 29-7	2	22670	Tiger Ridge	Eagle	06/29/99	1650	0	1285
Ocean Energy, Inc.	SENE	4 30N 15E	Herron 4-8	3	22671	Tiger Ridge		05/23/99	1700	0	0
Ocean Energy, Inc.	SWNW	5 31N 14E	Daniel 5-5	6	22672	Wildcat		05/08/99	1350	0	0
Ocean Energy, Inc.	NENE	25 31N 14E	Berger 25-1	2	22673	Tiger Ridge	Eagle	05/18/99	1350	0	1213
Ocean Energy, Inc.	SENE	12 31N 14E	Haglund 12-8	2	22674	Tiger Ridge	Eagle	04/14/99	1375	0	553
Ocean Energy, Inc.	SESE	12 31N 14E	Haglund 12-16	3	22675	Tiger Ridge		04/19/99	1400	0	0
Ocean Energy, Inc.	SWNE	5 30N 15E	Herron 5-7X	2	22676	Tiger Ridge	Eagle	06/08/99	1450	0	34
Ocean Energy, Inc.	SESW	8 30N 15E	Neuwerth 8-14	2	22677	Tiger Ridge	Eagle	04/11/99	1450	0	618
Ocean Energy, Inc.	SWNE	16 31N 15E	State 16-7	2	22678	Tiger Ridge	Eagle	05/25/99	1675	0	749
Ocean Energy, Inc.	NWSE	19 31N 15E	Berger 19-10	2	22679	Tiger Ridge	Eagle	04/28/99	1475	0	212
Ocean Energy, Inc.	SESW	4 31N 14E	US 4-14	6	22680	Wildcat		11/12/99	1250	0	0
Ocean Energy, Inc.	SESW	28 32N 14E	Pursley 28-14	2	22681	Tiger Ridge	Eagle	07/19/99	1350	0	254
Ocean Energy, Inc.	SWSW	32 32N 14E	Berg 32-13	2	22682	Tiger Ridge	Eagle	05/12/99	1225	0	676
Ocean Energy, Inc.	SESE	32 32N 14E	Berg 32-16	2	22683	Tiger Ridge	Eagle	05/20/99	1350	0	835

1999 WELL COMPLETIONS

OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Ocean Energy, Inc.	NESW	30 30N 15E	Rocky Boy 30-11	2	22685	Tiger Ridge	Judith River	06/25/99	1750	0	265
Ocean Energy, Inc.	SENE	3 31N 14E	Daniel 3-6	2	22686	Tiger Ridge	Eagle	07/14/99	1225	0	188
Ocean Energy, Inc.	SESE	27 31N 17E	Olson 27-16	2	22689	Tiger Ridge	Eagle	06/04/99	1650	0	336
Ocean Energy, Inc.	SESE	12 31N 14E	Haglund 12-16X	2	22691	Tiger Ridge	Eagle	06/19/99	1400	0	1142
Ocean Energy, Inc.	NESE	25 31N 15E	US 25-9	2	22698	Tiger Ridge	Eagle	08/30/99	1750	0	31
Ocean Energy, Inc.	SWSE	9 31N 15E	Fredrickson 9-15	3	22707	Tiger Ridge		09/01/99	1750	0	0
Ocean Energy, Inc.	SENE	17 31N 15E	Neuwerth 17-8	3	22712	Tiger Ridge		09/02/99	1500	0	0
Ocean Energy, Inc.	NWSW	22 31N 15E	Anderson 22-12	3	22713	Tiger Ridge		08/30/99	1850	0	0
Ocean Energy, Inc.	SESE	28 31N 15E	Hillbrant 28-16A	3	22717	Tiger Ridge		09/17/99	1600	0	0
Ocean Energy, Inc.	NESE	29 31N 15E	Dahlin 29-9	3	22719	Tiger Ridge		09/11/99	1750	0	0
Ocean Energy, Inc.	NWSE	34 31N 15E	Hillbrant 34-10	2	22724	Tiger Ridge	Eagle	09/01/99	1700	0	229
Ocean Energy, Inc.	NENE	2 31N 15E	Majerus 2-1	2	22726	Tiger Ridge	Eagle	08/23/99	1500	0	281
Ocean Energy, Inc.	SENE	31 31N 15E	Herron 31-8	2	22727	Tiger Ridge	Eagle	09/20/99	1400	0	1298
Ocean Energy, Inc.	NENW	30 31N 15E	Becker 30-3	2	22728	Tiger Ridge	Eagle	09/20/99	1450	0	616
Ocean Energy, Inc.	NENW	34 31N 17E	Olson 34-3	2	22733	Tiger Ridge	Eagle	10/02/99	1700	0	521
Ocean Energy, Inc.	SWNW	34 31N 17E	Olson 34-5	2	22734	Tiger Ridge	Eagle	10/05/99	1700	0	176
Liberty 051											
Branch Oil and Gas	NESW	10 35N 4E	State 11-10	2	21712	Haystack Butte	Bow Island	11/10/99	2039	0	250
Branch Oil and Gas	NENW	15 35N 4E	State 3-15	2	21713	Haystack Butte	Bow Island	11/10/99	2080	0	363
Fulton Fuel Company	NWSW	2 37N 4E	Wallace 13X-2	7	21700	Whitlash	Colorado Shale	02/03/99	1187	0	0
Montana Power Gas Company	NWNW	12 37N 7E	Packard 4-12	2	21701	Canadian Coulee, North	Second White Specks	07/05/99	2488	0	0
Montana Power Gas Company	NWSW	22 37N 7E	Duncan 12-22	5	21702	Sage Creek	Second White Specks	07/05/99	2085	0	0
Montana Power Gas Company	NWNW	10 37N 7E	Packard 4-10	5	21704	Sage Creek	Second White Specks	07/05/99	2332	0	0
Montana Power Gas Company	SWNW	24 37N 7E	Wolery 5-24	2	21705	Canadian Coulee, North	Second White Specks	07/16/99	2280	0	0
Montana Power Gas Company	SWSW	9 36N 7E	Guick 13-9	2	21706	Keith Area	Second White Specks	07/29/99	2116	0	0
Montana Power Gas Company	SWSE	30 36N 7E	Tempel Farm 14-30	5	21707	Keith Area	Second White Specks	08/10/99	2089	0	0
Montana Power Gas Company	NWNW	15 37N 7E	Pimley Farms 2-15	5	21708	Sage Creek	Second White Specks	07/07/99	2380	0	0
Montana Power Gas Company	NWSW	16 34N 7E	State 12-16	5	21709	O'Briens Coulee	Second White Specks	08/10/99	2000	0	0
Montana Power Gas Company	SWSE	26 37N 6E	Sage Creek 15-26	5	21710	Sage Creek	Second White Specks	08/09/99	2050	0	0
Montana Power Gas Company	SESW	16 37N 7E	State 14-16	5	21711	Sage Creek	Second White Specks	08/09/99	2160	0	100
TWO Taylor Well Operating	NWSE	9 34N 4E	Blair 1 ReEntry	2	21091	Grandview	Bow Island	09/27/99	2490	0	0
McCone 055											
Anschutz Exploration Corp.	SESW	27 18N 45E	Dirty Creek 14-27	6	21196	Wildcat		07/22/99	10100	0	0
Bowers Oil & Gas, Inc.	NWSW	19 24N 50E	BR 1-19	6	21197	Wildcat		11/01/99	3002	0	0
Ocean Energy, Inc.	SE	5 24N 47E	Tveten 5-32	6	21189	Wildcat		10/23/97	665C	0	0
Musselshell 065											
Great Plains Resources Inc.	NWNE	23 11N 30E	DeJaegher 2-23	4	21839	Tinder Box	Tyler	11/15/98	4248	32	0
Petroleum 069											
Starrock Resources, Inc.	SESE	26 12N 25E	Ambra 1-26	6	21152	Wildcat		04/27/99	2757	0	0
Phillips 071											
Decker Operating Company LLC	SENE	9 33N 30E	Fee 0930-1	5**	22504	Wildcat	Greenhorn/Phillips	08/30/99	2600	0	234
Decker Operating Company LLC	NENW	23 34N 30E	Fee 2340-1	5	22506	Wildcat	Bowdoin	08/30/99	2590	0	0
North American Resources Co.	SWSE	19 34N 33E	Ochsner 1943-1-34	6	22528	Wildcat		06/22/99	1608	0	0
North American Resources Co.	SWSW	14 36N 32E	Ivanovitch 1462-2-14	6	22529	Wildcat		06/19/99	1960	0	0
Samedan Oil Corporation	NENE	9 31N 33E	Federal 913-3	2	22530	Ashfield	Phillips	11/04/99	1569	0	0
Samedan Oil Corporation	SENE	9 31N 33E	Federal 913-4	2	22531	Ashfield	Phillips	11/07/99	1569	0	0
Samedan Oil Corporation	SWSE	18 31N 33E	Federal 1813-4	2	22532	Ashfield	Phillips	11/07/99	1309	0	0
Samedan Oil Corporation	SESW	25 31N 33E	Federal 2513-4	2	22533	Ashfield	Phillips	11/06/99	1472	0	0
Samedan Oil Corporation	NWNE	19 31N 33E	Federal 1913-3	2	22535	Ashfield	Phillips	11/07/99	1316	0	0
Samedan Oil Corporation	NESE	19 31N 33E	Federal 1913-4	2	22536	Ashfield	Phillips	11/06/99	1416	0	0
Samedan Oil Corporation	SENE	1 32N 31E	Federal 121-4	2	22537	Ashfield	Phillips	11/04/99	1250	0	0
Samedan Oil Corporation	NWSW	17 31N 32E	Fee 1712-4	2	22539	Ashfield	Phillips	11/05/99	1321	0	0
Samedan Oil Corporation	NENE	34 31N 32E	Fee 3412-3	2	22540	Ashfield	Phillips	11/06/99	1237	0	0
Samedan Oil Corporation	NWSW	34 31N 32E	Fee 3412-4	2	22541	Ashfield	Phillips	11/05/99	1237	0	0
Williston Basin Interstate	SENE	35 32N 33E	Fee 994	2	22286	Bowdoin & Area	Phillips	08/31/99	1210	0	505
Williston Basin Interstate	SWSW	5 32N 32E	Federal 1012	2	22442	Bowdoin & Area	Phillips	09/08/99	1210	0	1140
Williston Basin Interstate	NESW	15 32N 32E	Federal 1006	2	22447	Bowdoin & Area	Phillips	09/09/99	1260	0	1100
Williston Basin Interstate	CSE	28 33N 32E	Fee 1016	2	22458	Bowdoin & Area	Phillips	10/15/99	1350	0	405
Williston Basin Interstate	NENE	31 32N 32E	Federal 1034	2	22469	Bowdoin & Area	Phillips	08/31/99	1260	0	555
Williston Basin Interstate	NENW	12 31N 32E	Federal 1067	2	22470	Bowdoin & Area	Phillips	09/29/99	1300	0	1310
Williston Basin Interstate	NWNW	25 32N 32E	Federal 1047	2	22472	Bowdoin & Area	Phillips	09/10/99	1260	0	1050
Williston Basin Interstate	NESE	26 32N 32E	Federal 1046	2	22473	Bowdoin & Area	Phillips	09/10/99	1260	0	1025
Williston Basin Interstate	SWNW	24 32N 32E	Federal 1042	2	22474	Bowdoin & Area	Phillips	09/08/99	1260	0	1450
Williston Basin Interstate	SWNW	31 32N 33E	Federal 1055	2	22479	Bowdoin & Area	Phillips	09/01/99	1300	0	1075
Williston Basin Interstate	NENE	25 32N 31E	Federal 1030	2	22484	Bowdoin & Area	Phillips	09/09/99	1250	0	680
Williston Basin Interstate	NENE	8-32N-32E	Federal 1024	2	22485	Bowdoin & Area	Phillips	09/08/99	1210	0	1300
Williston Basin Interstate	NWNE	10 32N 32E	Federal 1025	2	22486	Bowdoin & Area	Phillips	10/15/99	1210	0	1350
Williston Basin Interstate	NESW	18 32N 32E	Federal 1027	2	22487	Bowdoin & Area	Phillips	09/09/99	1200	0	1200
Williston Basin Interstate	NENE	19 32N 32E	Federal 1029	2	22488	Bowdoin & Area	Phillips	09/01/99	1350	0	1200
Williston Basin Interstate	NWSW	25 32N 32E	Federal 1048	2	22489	Bowdoin & Area	Phillips	09/10/99	1260	0	1060
Williston Basin Interstate	NWSW	27 32N 32E	Federal 1033	2	22490	Bowdoin & Area	Phillips	09/10/99	1350	0	990
Williston Basin Interstate	NWNE	30 32N 32E	Federal 1031	2	22491	Bowdoin & Area	Phillips	09/10/99	1350	0	1010
Williston Basin Interstate	NENW	32 32N 32E	Federal 1035	2	22492	Bowdoin & Area	Phillips	09/10/99	1300	0	860
Williston Basin Interstate	NENW	33 32N 32E	Federal 1036	2	22493	Bowdoin & Area	Phillips	08/31/99	1300	0	802
Williston Basin Interstate	SESE	21 32N 33E	Federal 1045	2	22494	Bowdoin & Area	Phillips	09/08/99	1250	0	780
Williston Basin Interstate	SESE	12 31N 32E	Federal 1068	2	22495	Bowdoin & Area	Phillips	09/28/99	1300	0	550
Williston Basin Interstate	NENW	5 31N 33E	Federal 1062	2	22496	Bowdoin & Area	Phillips	09/28/99	1260	0	73
Williston Basin Interstate	NWSE	5 31N 33E	Federal 1063	2	22497	Bowdoin & Area	Phillips	09/29/99	1300	0	630
Williston Basin Interstate	SENE	7 31N 33E	Federal 1069	2	22498	Bowdoin & Area	Phillips	09/29/99	1260	0	615
Williston Basin Interstate	SESW	7 31N 33E	Federal 1070	2	22499	Bowdoin & Area	Phillips	09/28/99	1300	0	440
Williston Basin Interstate	SWNE	7 31N 33E	Federal 1071	2	22500	Bowdoin & Area	Phillips	09/28/99	1300	0	595

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OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Williston Basin Interstate	NENE	13 32N 31E	Federal 1026	2	22501	Bowdoin & Area	Phillips	09/10/99	1380	0	1350
Williston Basin Interstate	NENE	24 32N 31E	Federal 1028	2	22502	Bowdoin & Area	Phillips	09/09/99	1250	0	1090
Williston Basin Interstate	NE	2 31N 32E	Federal 1061	2	22507	Bowdoin & Area	Phillips	10/16/99	1260	0	1380
Williston Basin Interstate	NWSE	3 31N 32E	Federal 1040	2	22508	Bowdoin & Area	Phillips	09/30/99	1260	0	1275
Williston Basin Interstate	NESW	4 31N 32E	Federal 1039	2	22509	Bowdoin & Area	Phillips	09/30/99	1300	0	1600
Williston Basin Interstate	NE	4 31N 33E	Federal 1064	2	22510	Bowdoin & Area	Phillips	10/15/99	1260	0	552
Williston Basin Interstate	NWSW	11 31N 32E	Federal 1066	2	22511	Bowdoin & Area	Phillips	09/29/99	1300	0	860
Williston Basin Interstate	NWNW	11 31N 32E	Federal 1065	2	22512	Bowdoin & Area	Phillips	09/29/99	1300	0	1150
Williston Basin Interstate	NWSE	29 32N 33E	Federal 1052	2	22517	Bowdoin & Area	Phillips	10/16/99	1260	0	445
Williston Basin Interstate	SWSE	31 32E 33E	Federal 1056	2	22518	Bowdoin & Area	Phillips	10/16/99	1260	0	840
Williston Basin Interstate	SESW	33 32N 33E	Federal 1059	2	22519	Bowdoin & Area	Phillips	10/15/99	1260	0	720
Williston Basin Interstate	SWSE	33 32N 33E	Federal 1060	2	22520	Bowdoin & Area	Phillips	10/15/99	1260	0	570
Williston Basin Interstate	NESE	5 31N 32E	Federal 1038	2	22521	Bowdoin & Area	Phillips	09/30/99	1261	0	1230
Williston Basin Interstate	SWSE	30 32N 33E	Fee 1050	2	22522	Bowdoin & Area	Phillips	10/16/99	1260	0	960
Williston Basin Interstate	SWNW	32 32N 33E	Fee 1057	2	22523	Bowdoin & Area	Phillips	10/16/99	1260	0	740
Williston Basin Interstate	NWSW	35 32N 32E	Federal 1053	2	22525	Bowdoin & Area	Phillips	09/30/99	1260	0	1410
Williston Basin Interstate	SWSE	32 32N 33E	Fee 1104	2	22527	Bowdoin & Area	Phillips	09/28/99	1260	0	695
Pondera 073											
K2 America Corporation	NWNE	5 31N 5W	Tribal Raven A	1	21766	Cut Bank	Cut Bank	10/01/98	3000	18	0
K2 America Corporation	SWSE	5 31N 5W	Grayling 15-5	6	21768	Wildcat		11/13/99	3015	0	0
K2 America Corporation	SWNE	5 31N 5W	Brown 7-5	1	21771	Cut Bank	Cut Bank	12/11/99	3100	0	0
K2 America Corporation	SENE	5 31N 5W	Cutthroat 6-5	1	21772	Cut Bank	Cut Bank	12/29/99	3100	0	0
K2 America Corporation	NENW	5 31N 5W	Atlantic 3-5	4	21773	Cut Bank	Cut Bank	11/19/99	3044	0	0
Prairie 079											
Jurassic Resource Development	NESE	13 12N 56E	Jurassic 43-13B	2	21037	Pine	Eagle	09/18/99	2000	0	58
Richland 083											
Headington Oil LP	NENW	28 25N 57E	State 21-28	1	21877	Lone Butte	Red River	09/30/99	12612	219	178
Headington Oil LP	NENW	25 23N 59E	BN 21X-25R	1	21878	Mondak, West	Red River	12/15/99	12330	20	60
Roosevelt 085											
GCRL Energy Ltd.	SWNW	36 31N 47E	Koda Was-Te 1	7	21639	Benrud, East		04/14/98	7790	0	0
Samedan Oil Corporation	NESW	22 28N 58E	Granley 23-22H	4**	21634	Bainville	Nisku	02/07/98	10358	10	0
Rosebud 087											
Great Plains Resources Inc.	SESE	26 12N 32E	Coffee 16-26 ReEntry	4**	21651	Rattler Butte	Tyler	12/01/98	5433	35	0
Macum Energy Inc.	NWNE	26 13N 34E	State 31-26	6	21657	Wildcat		07/04/99	4550	0	0
Sheridan 091											
Exxon Corporation	NWSW	11 33N 57E	Mallard 1	3	21747	Dagmar, North		12/14/99	7750	0	0
Hollywood Petroleum, Inc.	NWSW	1 36N 58E	Meyer 3	6	21746	Wildcat		02/20/99	6900	0	0
Wascana Oil & Gas, Inc.	SWSW	10 37N 57E	Heppner 1 HzRecompl.	1	21708	Flat Lake	Nisku	01/25/98	9500	105	0
Teton 099											
Startech Energy Corp.	SWNE	29 27N 8W	Teton 7-29-27N-8W	6	21287	Wildcat		09/24/99	4672	0	0
Toole 101											
Buckley, Michael T.	NWSW	3 37N 4W	Peck 7	1	23856	Cut Bank	Cut Bank	10/21/99	2560	2	0
EOG Resources, Inc.	SWNE	25 33N 1E	Coulee 1-25H	4	23845	Devon	Nisku	10/28/98	5258	0	0
Fulton Fuel Company	NESW	35 37N 2E	Federal 11-35WI	7	23847	Fred & George Creek	Rierdon	02/02/99	2630	0	0
GeoStratum LLC (Wm D Roberts)	SWNE	6 35N 2W	Ruth Johnston 1	3	23858	Kevin Sunburst, Nisku		10/23/99	3148	0	0
Great Northern Drilling Co.	NESW	29 34N 1E	Waters 23-29	6	23840	Wildcat		09/15/99	1678	0	0
Griffon Petroleum, Inc.	NENW	29 34N 1W	Potlatch 3 ST	3	23854	Prairie Dell		08/05/99	172	0	0
Griffon Petroleum, Inc.	NWNE	30 34N 1W	Moffatt 4 ST	2	23855	Prairie Dell		08/05/99	385	0	26
Kee Sun Corporation	LT 1	1 33N 2W	Flesch 1-1	2	23825	Prairie Dell	Swift	12/03/97	1263	0	50
Montana Power Company	NWSW	16 37N 4W	State 12-16	2	23850	Cut Bank	Moulton	03/28/99	2650	0	7000
Montana Power Company	SWNW	29 37N 4W	Cobb 5-29	2	23851	Cut Bank	Moulton	04/07/99	2650	0	5000
Montana Power Company	NENE	30 37N 4W	State 1-30	2	23852	Cut Bank	Moulton	04/12/99	2740	0	5000
TWO Taylor Well Operating	NESE	14 31N 3W	Roaff 1-14	3	23853	Marias River		06/12/99	912	0	0
TWO Taylor Well Operating	NESE	14 31N 3W	Roaff 1-14-A	2	23857	Marias River	Bow Island	10/08/99	1311	0	47
Wibaux 109											
Jurassic Resource Development	SWNE	9 11N 57E	Jurassic 32-09A	2	21090	Pine Gas	Judith River/Eagle	01/24/99	2004	0	126
Jurassic Resource Development	SWNE	15 11N 57E	Jurassic 32-15A	2	21091	Pine Gas	Judith River/Eagle	01/15/99	2601	0	315
Jurassic Resource Development	SENE	15 11N 57E	Jurassic 22-15A	2	21092	Pine Gas	Judith River/Eagle	01/24/99	1879	0	150
Jurassic Resource Development	SESE	15 11N 57E	Jurassic 44-15A	2	21093	Pine Gas	Judith River/Eagle	01/18/99	1890	0	250
Jurassic Resource Development	SWNW	29 12N 57E	Jurassic 12-29UL	2	21095	Pine Gas	Judith River/Eagle	01/15/99	2000	0	77
Jurassic Resource Development	SENE	9 11N 57E	Jurassic 22-09A	2	21096	Pine Gas		01/15/99	1920	0	185
Jurassic Resource Development	NWSW	23 11N 57E	Jurassic 13-23A	2	21097	Pine Gas	Judith River/Eagle	01/19/99	1900	0	560
Jurassic Resource Development	NESW	29 12N 57E	Jurassic 23-29UL	2	21098	Pine Gas	Eagle	01/14/99	1910	0	84
Jurassic Resource Development	SESE	9 11N 57E	Jurassic 44-09A	2	21099	Pine Gas	Judith River/Eagle	05/17/99	1910	0	128
Jurassic Resource Development	NESE	30 12N 57E	Jurassic 43-3 OUL	2	21102	Pine Gas	Eagle	01/01/99	2000	0	112
Jurassic Resource Development	SWSW	15 11N 57E	Jurassic 14-15A	2	21104	Pine Gas	Judith River/Eagle	01/24/99	1920	0	250
Jurassic Resource Development	NWNW	4 11N 57E	Jurassic 11-04A	2	21105	Pine Gas	Eagle	05/20/99	1920	0	75
Jurassic Resource Development	NESE	4 11N 57E	Jurassic 43-04A	2	21108	Pine Gas	Eagle	01/18/99	1920	0	175
Jurassic Resource Development	NENW	19 12N 57E	Jurassic 21-19UL	2	21113	Pine Gas	Judith River	06/06/99	1805	0	200
Jurassic Resource Development	NESW	20 12N 57E	Jurassic 23-20UL	2	21115	Pine Gas	Eagle	01/14/99	2000	0	101
Jurassic Resource Development	NWNW	23 11N 57E	Jurassic 11-23A	2	21117	Pine Gas	Judith River/Eagle	01/24/99	1900	0	314
Jurassic Resource Development	NWNE	23 11N 57E	Jurassic 31-23A	2	21118	Pine Gas	Judith River/Eagle	01/21/99	1920	0	300
Jurassic Resource Development	NWSE	23 11N 57E	Jurassic 33-23A	2	21119	Pine Gas	Judith River/Eagle	01/15/99	2000	0	252

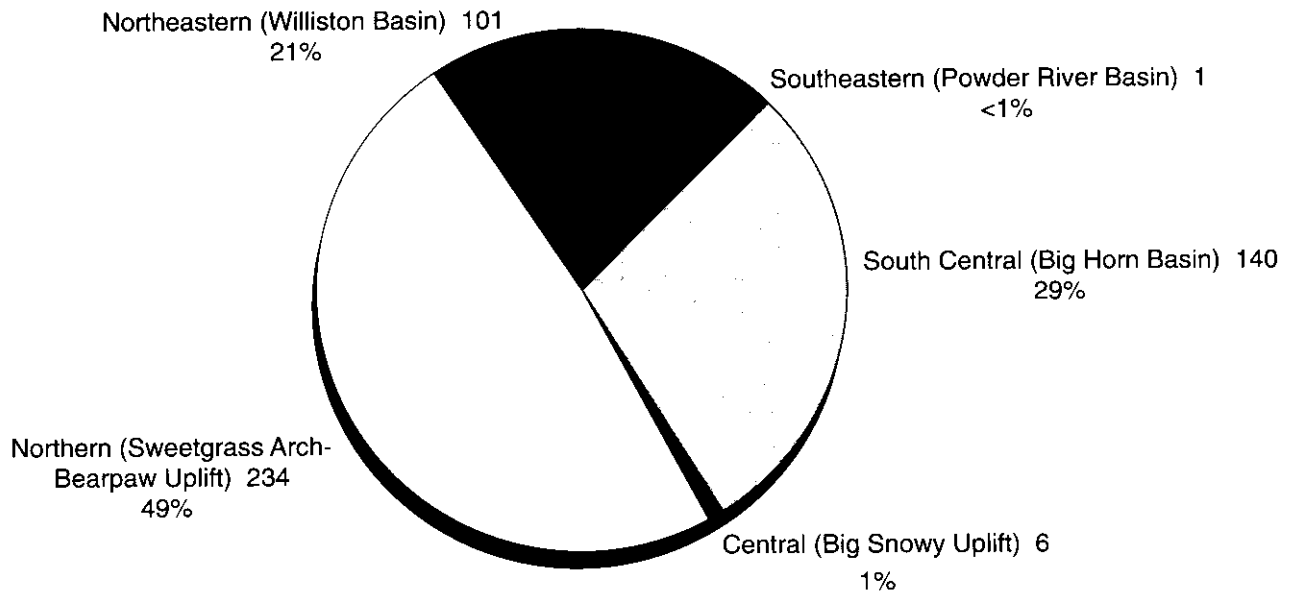
1999 WELL COMPLETIONS

OPERATOR	LOCATION	WELL	STATUS CODE	API#	FIELD	FORMATION	COMP. DATE	TOTAL DEPTH	IP OIL	IP GAS	
Jurassic Resource Development	SWSE	19 12N 57E	Jurassic 34-19UL	2	21120	Pine Gas	Eagle	01/14/99	2000	0	89
Montana Heartland LLC	SWSW	10 11N 57E	M.H. 14-10A	2	21121	Pine Gas	Judith River/Eagle	10/07/99	1820	0	422
Montana Heartland LLC	SWSW	14 11N 57E	M.H. 14-14A	2	21122	Pine Gas	Judith River	10/05/99	1810	0	45
Montana Heartland LLC	NENW	22 11N 57E	M.H. 21-22A	2	21123	Pine Gas	Eagle	10/06/99	1800	0	250
Montana Heartland LLC	NESE	22 11N 57E	M.H. 43-22A	2	21124	Pine Gas	Judith River	09/08/99	1810	0	300
Montana Heartland LLC	NENE	22 11N 57E	M.H. 41-22A	2	21125	Pine Gas	Judith River/Eagle	10/06/99	1805	0	350
Montana Heartland LLC	SWSE	10 11N 57E	M.H. 34-10A	2	21127	Pine Gas	Judith River/Eagle	12/21/99	1960	0	157
Montana Heartland LLC	SWNW	14 11N 57E	M.H. 12-14A	2	21128	Pine Gas	Judith River/Eagle	12/23/99	1930	0	166
Montana Heartland LLC	NESW	22 11N 57E	M.H. 23-22A	2	21129	Pine Gas	Judith River/Eagle	12/21/99	1900	0	350
Shell Western E & P Inc.	SWSE	13 11N 57E	Unit 34X-13AH	1	21087	Pine	Red River	09/27/99	11407	109	24

Status Codes:

- | | |
|------------------------|-------------------|
| 1 - Development Oil | * New Pay |
| 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 1999 by Region (482 Wells)



1999 SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1999	1999	Avg. Daily Injection Rate BBLs or MCF	No. of Active Injection Wells	Source of Injection Media and Remarks
						Injection Volume BBLs or MCF	Cumulative Injections BBLs or MCF			
Bears Den	Swift	FX Drilling Co., Inc.	Waterflood	Random	11/90	157431	1791722	431	4	WSW/Produced
Bell Creek Consolidated	Muddy	Richardson Operating	Waterflood	5 Spot	4/70	2560696	536840016	7016	31	Produced (Consolidated 1/92)
Bell Creek, South	Muddy	Richardson Operating	Waterflood	Peripheral	2/91	38979	1063369	107	4	Produced
Big Wall BWLTSU	Lower Tyler	Citation Oil & Gas	Waterflood	Random	10/84	2505483	40597893	6864	3	Produced
Big Wall BWUTSU	Upper Tyler	Citation Oil & Gas	Waterflood	Random	8/66	1179125	47538016	3230	1	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	107026	4794277	293	4	Madison
Border, Old	Cut Bank	Gypsy Highview System	Waterflood	Random	6/73	31075	2022230	85	1	Cut Bank
Bowes	Sawtooth	Citation Oil & Gas	Waterflood	Random	05/61	488879	13525256	1339	6	Madison
Breed Creek	Tyler	True Oil Co.	Waterflood	Random	11/92	899907	5028957	2465	3	WSW and Produced
Cabin Creek	Siluro-Ord.	Encore Operating LP	Waterflood	Semi-Perip	6/59	9156531	406121311	25086	27	Produced
Cat Creek East Dome	Ellis Sand	Carrell Oil Company	Waterflood	Semi-Perip	7/70	6673	1737826	18	4	Third Cat Creek (3 months)
Cat Creek Mosby Dome	Swift	Carrell Oil Company	Waterflood	Random	7/67	19907	7216893	55	2	Third Cat Creek (3 months)
Cat Creek Unit 1	1st Cat	Carrell Oil Company	Waterflood	Semi-Perip	10/62	47250	9389122	525	1	Third Cat Creek (3 months)
Cat Creek Unit 1	2nd Cat	Carrell Oil Company	Waterflood	Semi-Perip	10/62	102600	14819087	1140	1	Third Cat Creek (3 months)
Cat Creek Unit 2	1st Cat	Carrell Oil Company	Waterflood	Semi-Perip	12/59	42525	10618110	4725	4	Third Cat Creek (3 months)
Cat Creek Unit 2	2nd Cat	Carrell Oil Company	Waterflood	Semi-Perip	12/59	42525	15143832	4725	4	Third Cat Creek (3 months)
Cut Bank Airport Unit	Cut Bank	Mercury Exploration	Waterflood		6/93	46125	816755	126	1	Madison
Cut Bank Dahlquist	Cut Bank	KeeSun Corp.	Waterflood	Random	11/79	0	671049	0	0	Idle
Cut Bank Lander A	Lander Sand	MSR Exploration Ltd.	Waterflood	Random	4/65	0	2115000	0	0	Idle
Cut Bank Marina	Cut Bank	Gypsy Highview System	Waterflood	5 Spot	6/72	0	2074515	0	0	Idle
Cut Bank NCCBSU	Cut Bank	Gypsy Highview	Waterflood	5 Spot	5/78	0	5757000	0	0	Idle
Cut Bank NECBSU	Cut Bank	J and G Operating	Waterflood	5 Spot	6/63	0	13409000	0	0	Idle
Cut Bank NWCBSU	Cut Bank	MSR Exploration Ltd.	Waterflood	5 Spot	1/62	0	19794551	0	0	Idle
Cut Bank Rieckhoff	Cut Bank	FX Drilling Co., Inc.	Waterflood	Random	1983	170911	3260695	468	6	Madison/Recycle
Cut Bank SCCBSU	Cut Bank	Mercury Exploration	Waterflood	5 Spot	5/63	1066443	76015664	2922	33	Madison
Cut Bank SWCBSU	Cut Bank	FX Drilling Co., Inc.	Waterflood	5 Spot	9/62	1580438	156672535	4330	26	Madison/Recycle
Cut Bank Tesoro	Cut Bank	City Oil Co.	Waterflood	5 Spot	9/71	0	6759000	0	0	Madison/Recycle
Cut Bank Tweedy	Madison	Gypsy Highview	Waterflood	5 Spot	6/72	6380	1003951	17	1	Cut Bank
Cut Bank Two Medicine	Cut Bank	Provident Energy	Waterflood	Random	12/67	69018	58732614	189	1	Produced
Darling North Unit	Moulton	Buttes Resources	Waterflood	Random	2/68	0	2472122	0	0	Idle
Darling South Unit	Moulton	KCS Mountain Resource	Waterflood	Random	2/67	0	7548073	0	0	Idle
Dean Dome	Greybull	Eastern American	Steam Inj	Cyclic	8/81	0	29000	0	0	Idle
Dwyer	Charles	CamWest LP	Waterflood	Peripheral	10/68	133942	3253177	367	1	Produced/Charles
Elk Basin	Frontier	Howell Petroleum	Waterflood	Crestal	12/72	0	6039000	0	0	Idle
Elk Basin	Madison	Howell Petroleum	Waterflood	Semi-Perip	8/61	4066126	147486889	11140	13	Produced
Elk Basin Northwest	Madison	Howell Petroleum	Waterflood	Semi-Perip	12/88	0	3093814	0	0	Idle
Elk Basin Northwest	Tensleep	Howell Petroleum	Waterflood	Semi-Perip	1/67	0	5918000	0	0	Idle
Elk Basin Unit	Tensleep	Howell Petroleum	Waterflood	Semi-Perip	4/67	0	2431000	0	0	Idle
Flat Coulee	Swift	Breck Operating Corp	Waterflood	Peripheral	2/72	780719	22821794	2139	11	Eagle & Produced
Flat Lake Unit	Ratcliffe	Wascana Oil & Gas Inc	Pressure M	Random	6/71	906801	53008837	2484	10	Produced
Flat Lake West	Ratcliffe	Wascana Oil & Gas Inc	Pressure M	Random	11/74	400032	10721228	1096	3	Produced
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	0	526846	0	0	Montana project P&A'd

1999 SUMMARY OF SECONDARY RECOVERY PROJECTS

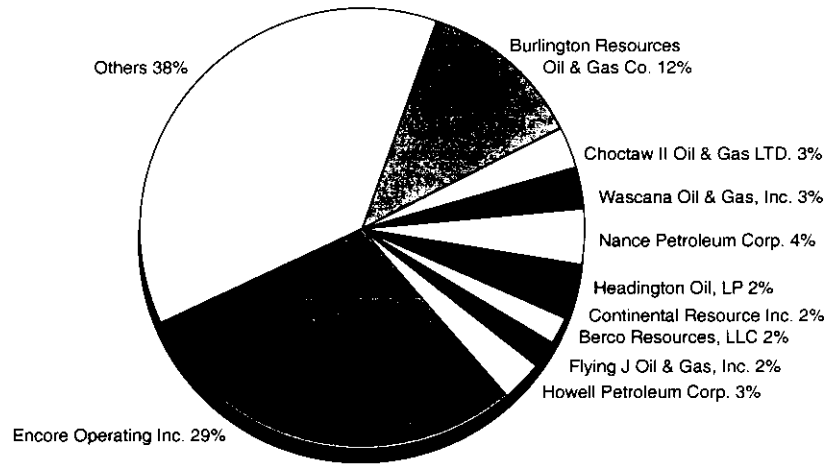
Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1999	1999	Avg. Daily Injection Rate BBLs or MCF	No. of Active Injection Wells	Source of Injection Media and Remarks
						Injection Volume BBLs or MCF	Cumulative Injections BBLs or MCF			
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	0	23131	0	0	Idle
Fred & George Creek	No. Sunburst "B"	Fulton Fuel Company	Waterflood		1/96	27114	186227	74	1	Eagle & Sunburst A
Fred & George Creek	SE Sunburst "B"	Fulton Fuel Company	Waterflood		1/96	331391	1588271	908	3	Eagle and Sunburst A
Fred & George Creek	Sunburst "A"	William M. Fulton	Waterflood	Random	7/76	609802	65712751	1671	2	Sunburst/Eagle
Gas City	Red River	Home-Stake Royalty Co	Waterflood	Semi-Perip	10/69	234932	19149946	644	1	Mission Canyon
Goose Lake North Unit	Ratcliffe	Makoil, Inc.	Waterflood	Semi-Perip	1/73	573001	32883204	1570	3	Produced
Gumbo Ridge	Tyler B	Cline Production Co.	Waterflood	Semi-Perip	6/80	25000	3372735	68	1	Produced
Highview	Madison	Mountain States Res.	Waterflood	Random	12/91	3504	203205	10	1	Madison
Ivanhoe	Tyler	Tomahawk Oil Co.	Pressure M	Random	5/64	143302	991459	393	1	Produced
Jim Coulee	Tyler	Beartooth Oil & Gas	Waterflood	Semi-Perip	7/72	447335	30895945	1226	2	Produced Cat Creek
Keg Coulee NW Unit	Tyler	Great Plains Resource	Waterflood	Semi-Perip	3/64	13535	6526905	37	1	Madison
Keg Coulee Tyler Unit	Tyler	Cline Production Co.	Waterflood	Semi-Perip	12/69	15639	3623142	43	2	Produced
Keg Coulee Unit	Tyler	Xeric Oil & Gas Corp.	Waterflood	Semi-Perip	8/66	3146	7155015	9	1	Produced
Kelley	Tyler B	Grand Resources, Ltd.	Waterflood	Random	7/69	59650	5162250	163	1	Produced
Kevin Homestake SU	Sunburst	KCS Resources Inc.	Waterflood	Random	8/64	220846	10282447	605	7	WSW & Produced
Kevin Sunburst Ferdig	Swift	Somont Oil Company	Waterflood		8/92	20075	145032	55	2	Produced
Kevin Sunburst SU	Sunburst	Basin Operating Co.	Waterflood	Random	8/64	0	13108	0	0	Abandoned 8/96
Kincheloe Ranch	Tyler A	Tyler Rockies Explor.	Waterflood	Random	11/89	7297	2550703	20	2	Third Cat Creek
Kincheloe Ranch, West	Tyler A	Tyler Rockies Explor.	Waterflood	Random	02/92	0	252097	0	0	Idle
Laird Creek	Swift	KCS Resources, Inc.	Waterflood	Semi-Perip	2/77	0	807000	0	0	Idle
Little Beaver	Red River	Encore Operating LP	Waterflood	Semi-Perip	8/66	985118	65012792	2699	10	Produced
Little Beaver East	Red River	Encore Operating LP	Waterflood	Semi-Perip	4/65	707437	29055887	1938	5	Produced
Little Wall - Weisner	Tyler	Beartooth Oil & Gas	Waterflood	Random	01/92	120425	850870	330	1	Produced
Little Wall Creek	Tyler	Citation Oil & Gas	Waterflood	Random	1984	77042	1360546	211	1	Produced
Little Wall S Gunderson	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/87	272700	2647698	747	1	Produced
Little Wall South Unit	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/83	31910	20067915	87	2	Produced
Lookout Butte Coral Crk	Red River	Encore Operating LP	Waterflood	Semi-Perip	4/67	1955968	75999483	5359	13	Produced
Lookout Butte East	Red River B	Burlington Resources	Waterflood	Random	7/88	4262928	7970453	11679	30	Produced
Mason Lake	1st Cat Creek	Nielco, Inc.	Waterflood	Pilot	11/88	0	472000	0	0	Idle
Melstone North	Tyler	True Oil Co.	Waterflood		1/83	680218	11143034	1864	5	3rd Cat Creek & produced
Monarch	Siluro/Ord	Encore Operating LP	Waterflood		12/73	267286	8445567	732	2	Produced
Pennel	Siluro/Ord	Encore Operating LP	Waterflood	Random	8/69	8686666	326824849	23799	68	Produced
Pine North C & D	Red River	Encore Operating LP	Waterflood	Semi-Perip	3/68	400915	27830830	1098	2	Lodgepole
Pine South A	Siluro/Ord	Encore Operating LP	Waterflood	Semi-Perip	3/59	6240131	233203365	17096	24	Produced
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	0	1183981	0	0	Idle
Rabbit Hills	Sawtooth	Summit Resources	Polymer/WF	Random	1/96	100244	354124	275	1	Produced
Ragged Point SW	Tyler	Grand Resources, Ltd.	Waterflood	Random	10/82	956465	16466987	2620	4	Produced
Ragged Point Tyler A	Tyler	Xeric Oil & Gas Corp.	Waterflood	Semi-Perip	12/66	4177	12080192	11	1	Produced
Rattler Butte	Tyler	Cline Production Co.	Waterflood		5/93	69893	243198	191	1	Produced & WSW
Rattler Butte	Tyler C	Tyler Oil Company	Waterflood		1999	42544	85088	117	1	Produced
Raymond	Nisku	Prima Exploration Inc	CO2 Inj.		8/83	35446	2561220	97	1	Produced
Reagan Dome	Madison	No. American Resources	Waterflood	Random	7/73	509766	11248500	1397	3	Produced
Red Creek	Madison	Summit Resources, Inc	Waterflood	5 Spot	6/65	2491104	36019668	6825	3	Produced
Ridgelawn RDU	Duperow	Cowry Enterprises Ltd	Secondary		7/90	172148	4709939	472	3	Duperow/Dakota produced
Roscoe Dome	Lakota	E. American Energy	Steam Inj.		5/82	0	5000	0	0	Idle
Rosebud	Tyler	Cline Production Co.	ER	Random	09/91	109609	989479	300	1	WSW & Produced
Stensvad	Tyler	Tomahawk Oil Co.	Waterflood	Semi-Perip	12/63	188242	300237398	516	2	Produced
Sumatra Central	Tyler	Ballard & Associates	Waterflood	Semi-Perip	9/69	4513839	225274693	12367	11	Produced

1999 SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Injection Commenced	1999	1999	Avg. Daily Injection Rate BBLs or MCF	No. of Active Injection Wells	Source of Injection Media and Remarks
						Injection Volume BBLs or MCF	Cumulative Injections BBLs or MCF			
Sumatra Grebe	Tyler	Tomahawk Oil Co.	Waterflood	Random	6/75	3257	1461781	9	1	Produced
Sumatra NE	Tyler	Tomahawk Oil Co. Inc.	Waterflood	Semi-Perip	9/69	59159	13669629	162	3	Produced
Sumatra SE	Tyler	Grt Plains Operating	Waterflood	Semi-Perip	12/69	661905	37998545	1813	3	Produced
Sumatra Sawyer	Tyler	Central Resources Inc	Waterflood	Semi-Perip	6/80	0	1541000	0	0	Idle
Sumatra W.Kincheloe	Tyler	Grt Plains Operating	Waterflood	Semi-Perip	5/82	945088	33148975	2589	7	Tyler 'sd'
Sumatra West	Tyler	Cline Production Co.	Waterflood	Semi-Perip	10/68	1332167	73826398	3650	5	Produced
Utopia	Swift	True Oil Co.	Waterflood	Random	03/92	110921	1151308	304	6	Sunburst WSW
Wilow Ridge	Burwash	Croft Petroleum Co.	Waterflood		10/97	8739	21516	24	2	WSW
Winnett Junction	Tyler	Beartooth Oil & Gas	Waterflood	Random	10/77	327695	11364530	898	2	Produced
Wolf Springs South	Amsden	Beartooth Oil & Gas	Waterflood		1/93	17580	324308	48	2	WSW and Produced

Top Producing Oil Companies - 1999

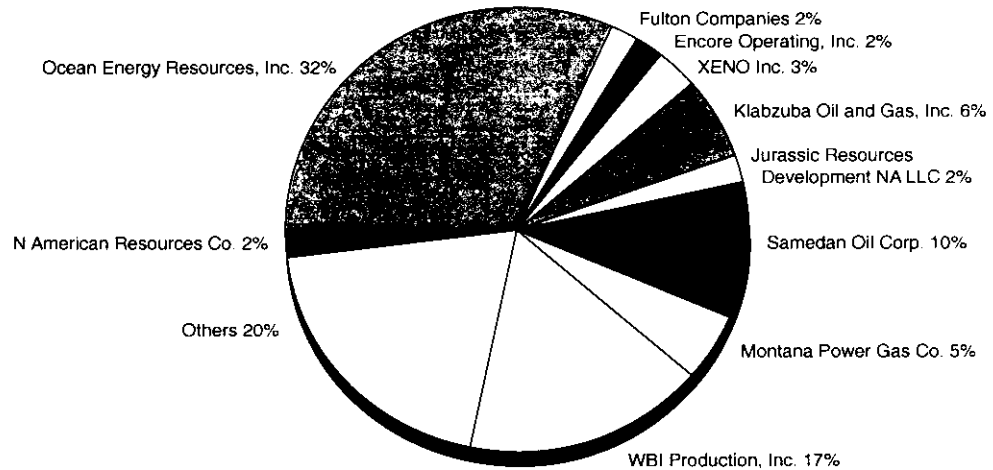
15,266,561 Barrels Produced



188 Active Oil Producers - 1999

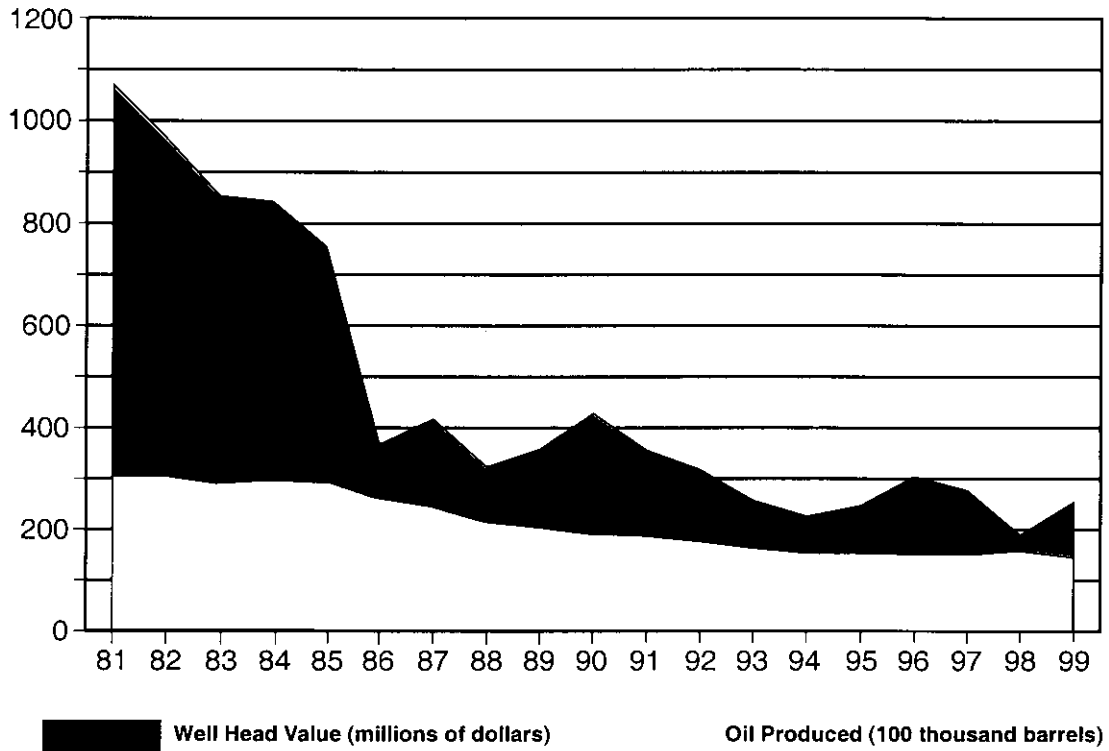
Top Producing Gas Companies - 1999

61,646,579 Mcf

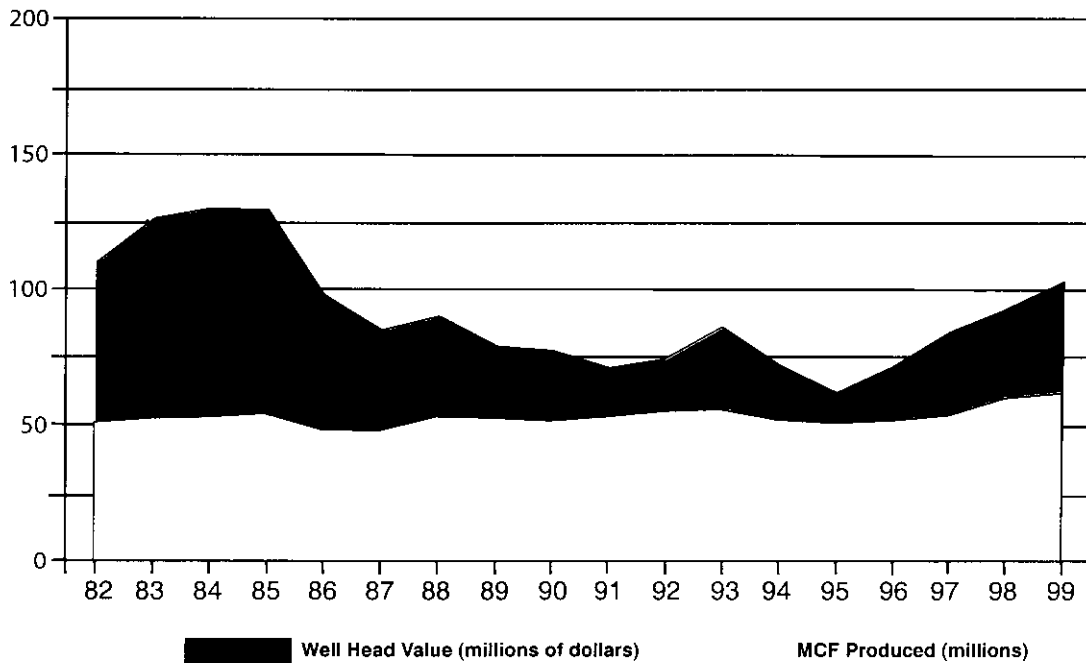


161 Active Gas Producers - 1999

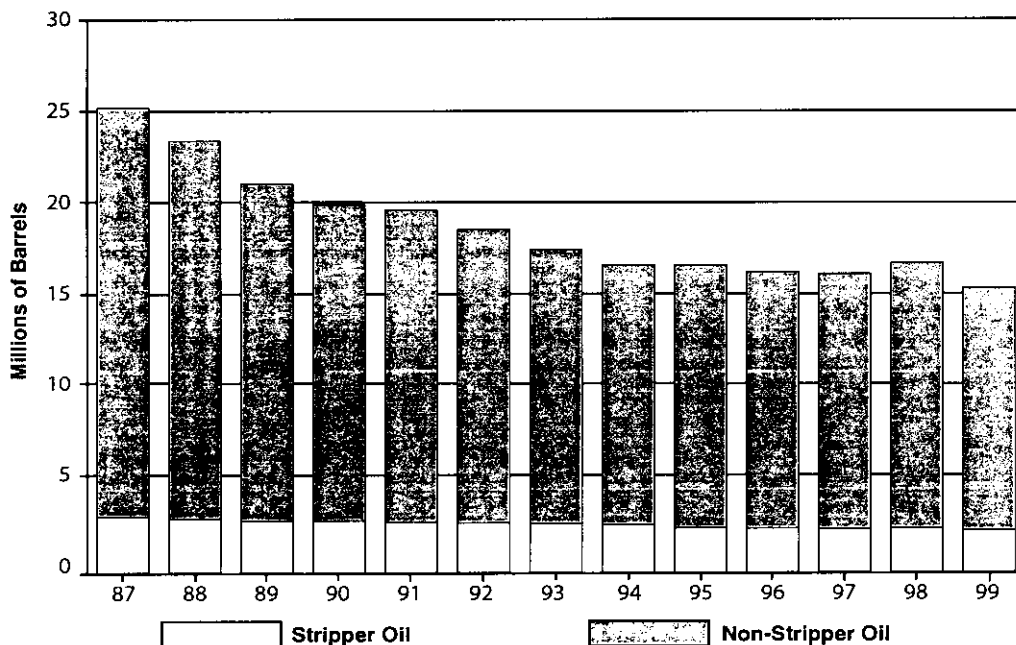
Oil Produced and Oil Value



Gas Produced and Gas Value Natural and Associated Gas

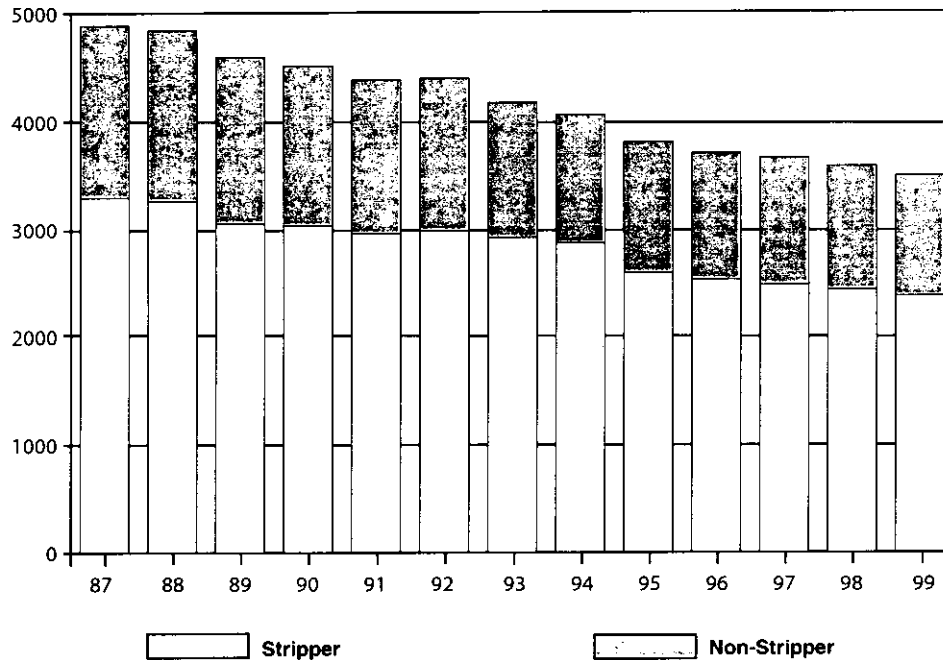


Stripper and Non-Stripper Oil Production



A Stripper Well Produces 10 BOPD or Less

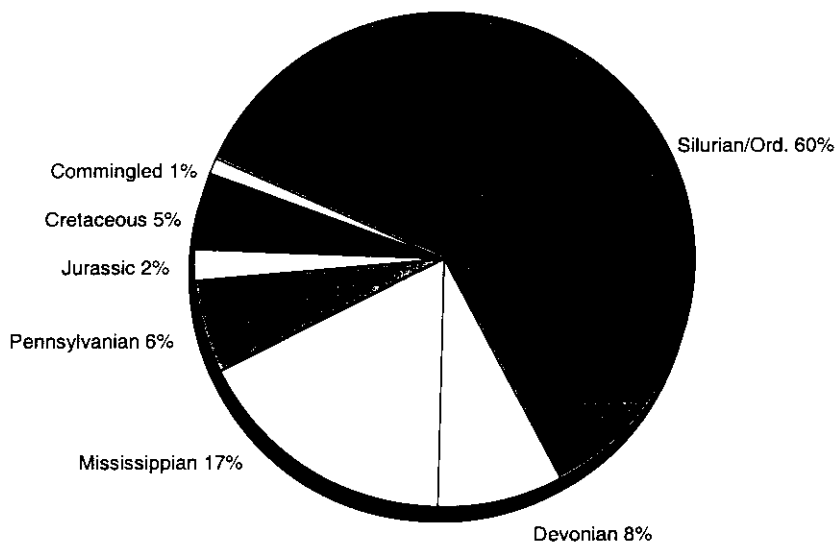
Stripper and Non-Stripper Number of Producing Wells



A Stripper Well Produces 10 BOPD or Less

Oil Production

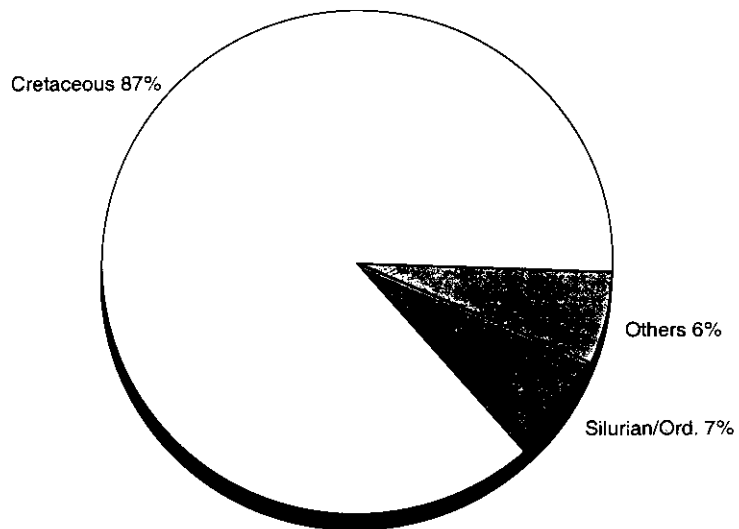
By Geologic Period



15,266,561 Bbls Produced

Gas Production

By Geologic Period
Natural and Associated Gas



61,646,579 Mcf Produced

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
ALKALI COULEE Red River	1	0	0	320-acre Red River Fm. spacing units with 660' setback from spacing unit boundaries and 1650' between wells (Order 77-81).
ALMA	0	0	0	640-acre spacing units for gas production from the Sawtooth, Bow Island, and shallower formations; location to be no closer than 990' to spacing unit boundary (Order 19-77).
ALMA, NORTH	0	0	0	Single 640-acre spacing unit for Blackleaf gas production (Order 95-82).
AMANDA Bow Island Sandstone Burwash Sandstone Sunburst Sandstone Swift Formation Bow Island, Dakota Swift, Sunburst	0 0 0 0 0 0	9 1 4 1 1 4	2 0 0 0 0 0	320-acre spacing units for gas with one well per horizon, 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).
ANTELOPE COULEE Bow Island Sandstone	0	1	0	Statewide.
ANVIL Ratcliffe Interval Nisku Formation Red River	1 2 5	0 0 0	0 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).
ARCH APEX Bow Island Sandstone Sunburst Sandstone Swift, Sunburst	0 0 0	39 1 0	5 1 1	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).
ASH CREEK Shannon Sandstone	0	0	5	Spacing waived within unitized portion of field with wells to be no closer than 660' to unit boundary (Order 4-65). Waterflood initiated October 1964 (Orders 22-64, 15-66).
ASHFIELD Bowdoin Carlile Shale Phillips Sandstone Bowdoin, Greenhorn, Phillips Bowdoin, Greenhorn Greenhorn-Phillips	0 0 0 0 0 0	1 71 31 11 4 28	1 2 1 0 0 0	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).
ATOR CREEK Red River	1	0	0	Single spacing unit comprised of W/2 NE/4 and E/2 NW/4, Sec. 36, T35N, R55E for production of oil from Red River Formation (Order 73-96).
BADLANDS Eagle Formation Virgelle Sandstone	0 0	5 1	10 0	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 Interval Winnipegosis Formation Red River	1 1 2	0 0 0	0 0 0	Single 320-acre spacing unit for Winnipegosis Formation (Order 117-84). Single spacing unit for Winnipegosis (Order 18-88, Order 53-98). Single Red River spacing unit (Order 53-98).
BAINVILLE (RATCLIFFE/MISSION CANYON) Ratcliffe Interval	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 Ratcliffe Interval Red River	1 2	0 0	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). Single Madison Group spacing unit, NW/4 27N-59E-6 (Order 122-97).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BAINVILLE, NORTH				
Mission Canyon	1	0	0	320-acre spacing units for Winnipegosis and Red River consisting of two governmental quarter sections located in either one or two governmental sections; wells no closer than 660' to unit boundary and 1,650' to any well producing from the same formation (Order 84-79). 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). Commingling authorized (Orders 34-97, 35-97, 112-97, 113-97).
Ratcliffe Interval	3	0	0	
Nisku Formation	4	0	0	
Winnipegosis Formation	4	0	0	
Interlake Formation	1	0	0	
Red River	9	0	1	
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 no closer than 660' to the unit boundary and 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 Formation	15	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 Formation or Group	6	0	5	
BATTLE CREEK				
Eagle Formation	0	71	7	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). Include Lower Eagle and Upper Colorado intervals in a portion of the field (Order 76-92).
Niobrara Formation	0	3	0	
BEANBLOSSOM				
Lower Tyler	1	0	1	Three spacing units consisting of individual lots with one well per lot (Order 23-86).
BEAR'S DEN				
Bow Island Sandstone	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 Formation	7	2	2	
BELL CREEK				
Muddy Sandstone	65	0	207	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 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 as the Bell Creek Consolidated (Muddy) Unit (Order 71-91). South Bell Creek (Muddy) Unit approved 6-28-90 (Order 24-90). Certification of Consolidated Unit (Order 44-96) and South Bell Creek Unit (Order 74-97) as expanded enhanced recovery projects.
BELL CREEK, SOUTHEAST				
Muddy Sandstone	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 AREA				
Nisku Formation	0	0	1	Statewide.
BENRUD, EAST				
Nisku Formation	1	0	0	160-acre spacing units for Nisku with permitted location within a 1,320' square in center of quarter section (Order 6-65). Single Nisku Formation spacing unit consisting of Lots 3 and 4, Sec. 6, T30N, R48E (Orders 108-84 and 7-85).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BENRUD, NORTHEAST	0	0	0	Same as East Benrud Field (Order 6-65). Field enlargement (Order 26-66).
BERTHELOTE				
Sunburst Sandstone	2	0	1	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				
Big Elk Sandstone	0	0	1	Statewide except for single spacing unit for production of gas from the Morrison Formation consisting of Sec. 29, T4N R20E (Order 25-86).
Third Cat Creek	0	6	0	
Morrison Formation	0	1	0	
BIG GULLY				
Tyler	1	0	1	Statewide.
BIG GULLY, NORTH				
Tyler	0	0	1	Statewide.
BIG MUDDY CREEK				
Mission Canyon	1	0	0	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).
Duperow Formation	1	0	0	
Interlake Formation	1	0	0	
BIG ROCK GAS FIELD				
Colorado Shale	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 Formation	0	25	1	
Bow Island Sandstone	0	6	0	
BIG WALL				
Amsden Formation	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 Sandstone	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 Formation	0	1	2	
Moulton Sandstone	0	1	1	
Sunburst Sandstone	0	1	0	
Madison Formation or Group	0	0	1	
BLACK BUTTE				
Eagle Formation	0	1	2	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 wells 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 Formation	0	8	5	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 Formation	0	0	2	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).
BLACK JACK				
Second White Specks	0	1	0	Delineated for Sunburst and Swift with one gas well per 160 acre spacing unit, with well no closer than 660' to spacing unit boundaries (Order 3-69). Order 3-69 amended to include Blackleaf Formation in spacing and field rules (Order 4-74).
Blackleaf Formation	0	1	1	
Sunburst Sandstone	0	11	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BLACKFOOT				
Dakota Sandstone	0	6	1	Delineated for Cut Bank and Madison with one well per 40-acre spacing unit; 300' tolerance from center of spacing unit; dual completion in Cut Bank and Madison with administrative approval (Order 3-57). Waterflood started November 1976 (Order 34-76). Blackfoot Shallow Gas: 640-acre spacing units; one well per section per producing horizon above the Kootenai located no closer than 990' to section boundaries (Order 121-80).
Sunburst Sandstone	0	1	0	
Nisku Formation	0	0	1	
Bow Island, Dakota	0	1	0	
Cut Bank, Madison	8	1	1	
Sunburst, Dakota	0	1	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 Formation	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 Formation	1	0	0	
Red River	1	0	0	
BLUE MOUNTAIN				
Red River	2	0	0	Statewide.
BORDER				
Cut Bank Sandstone	6	0	10	Oil: Unitized into New and Old Border fields, 6-1-73 (Orders 8-73, 9-73). Gas: Location no closer than 330' to boundary of legal subdivision; 2,400' between wells in same formation on same lease; 75' topographic tolerance (Order 7-54). Waterflood approved (Orders 8-73, 9-73, 28-73).
Moulton Sandstone	0	0	2	
BOWDOIN & AREA				
Bowdoin	0	10	2	One well per quarter section not less than 1,000' from lease boundary or less than 2,000' from any gas well in same horizon (Order 29-55). Unitized 1958. Delineated (Order 3-72). Spacing waived within lands participating in Bowdoin and Hinsdale Units, 660' setback from unit boundaries (Order 135-97).
Carlile Shale	0	8	0	
Greenhorn	0	348	7	
Phillips Sandstone	0	70	2	
Bowdoin, Greenhorn, Phillips	0	3	1	
Bowdoin, Greenhorn	0	3	0	
BOWES				
Eagle Formation	0	43	11	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 (Order 74-83). Location and spacing requirements waived for lands committed to unit (Order 61-97). Expanded enhanced recovery unit designation (Order 85-97).
Sawtooth Formation	43	0	39	
BOX CANYON				
Red River	0	0	1	Statewide.
BRADLEY				
Bow Island Sandstone	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 Sandstone	2	0	0	
Madison Formation or Group	1	0	0	
BRADY				
Burwash Sandstone	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; commingle production from Burwash and Sunburst formations in Section 16 (Order 86-81).
Sunburst Sandstone	10	0	7	
Morrison Formation	5	0	6	
BREED CREEK				
Tyler	11	0	5	Breed Creek Waterflood Unit approved; spacing waived within unitized area; wells to be located no closer than 330' to unit boundaries (Order 12-92). Certified as expanded enhanced recovery unit effective 9/1/94 (Order 90-94).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
BROADVIEW				
Big Elk Sandstone	0	0	1	Single 640-acre Frontier spacing unit comprised of Sec. 35, T5N, R22E (Order 8-86).
BRORSON				
Madison Formation or Group	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	3	0	0	
Ratcliffe Interval	1	0	0	
Interlake Formation	1	0	0	
Red River	5	0	0	
BRORSON, SOUTH				
Madison Formation or Group	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). Reduced Field Area (Order 26-77).
Mission Canyon	4	0	0	
Bakken Formation	2	0	0	
Red River	0	0	1	
BROWN'S COULEE				
Eagle Formation	0	3	2	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). Eagle spacing unit consisting of S/2 SW 23-34N-13E and N/2 NW 26-34N-14E (Order 4-99).
Second White Specks	0	1	0	
BROWN'S COULEE, EAST				
Eagle Formation	0	3	3	Statewide.
Niobrara Formation	0	1	0	
BRUSH LAKE				
Red River	4	0	1	320-acre Red River spacing units with initial nine spacing units (Order 15-71).
Stonewall Formation	1	0	0	
BULLWACKER				
Eagle Formation	0	47	5	Delineated for Judith River and Virgelle/Eagle gas production with one well per 320-acre spacing unit 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 Formation	0	2	1	
Virgelle Sandstone	0	1	0	
BURGET, EAST				
Madison Formation or Group	1	0	0	Statewide.
Mission Canyon	1	0	0	
Ratcliffe Interval	1	0	0	
Nisku Formation	1	0	0	
BURNS CREEK				
Red River	0	0	1	Statewide.
BURNS CREEK, SOUTH				
Red River	0	0	1	Statewide.
BUTCHER CREEK				
Greybull Sandstone	0	0	1	320' between producing wells with "heater" wells to be located no closer than 160' to producing wells (Order 17-60). Amended to authorize Greybull Formation wells no closer than 160' to other wells or 320' to exterior field boundaries; all wells may be utilized for steam stimulation (Order 100-81).
CABARET COULEE				
Madison Formation or Group	1	0	4	Statewide.
Ratcliffe Interval	0	0	1	
CABIN CREEK				
Charles B	1	0	0	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 (Order 75-94).
Madison Formation or Group	7	0	21	
Mission Canyon	1	0	0	
Siluro-Ordovician	93	0	33	
Red River	7	0	2	
CAMP CREEK				
Eagle Formation	0	1	1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
CANADIAN COULEE & AREA				
Eagle Formation	0	0	1	320-acre spacing units for Jurassic Sawtooth/Piper with well no closer than 660' to interior spacing unit boundary and 990' to field boundaries (Order 18-76).
Firemoon Limestone Mbr	0	0	1	
CANADIAN COULEE, NORTH				
Claggett Shale	0	0	1	640-acre spacing units for Jurassic Sawtooth. Wells to be no closer than 1,650' to section line (Order 15-74).
Second White Specks	0	0	2	
CANAL				
McGowan Zone	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 no closer than 660' to unit boundary with 150' topographic tolerance (Order 58-85). Permanent spacing unit, E/2, 23N-59E-7, for horizontal Ratcliffe well (Order 95-97).
Madison Formation or Group	1	0	0	
Mission Canyon	1	0	0	
Red River	1	0	0	
CARLYLE				
	0	0	0	320-acre Red River spacing units to consist of either the N/2 and S/2 or E/2 and W/2 of section or lots corresponding thereto; well location to be no closer than 660' to unit boundary nor closer than 1,650' to any well drilling or producing from the same pool (Order 39-79). E 1/2 of 18-11N-61E designated as a spacing unit for Nisku Formation with permission to commingle production with Red River (Order 29-87).
CAT CREEK, EAST DOME				
	0	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 (Orders 17-56, 18-59, 13-62, 8-68, 38-70, 11-7). Waterflood modified (Order 29-74).
CAT CREEK, MOSBY DOME				
Second Cat Creek	1	0	0	See Cat Creek, East Dome regulation summary.
Ellis Group	3	0	5	
Amsden Formation	2	0	0	
CAT CREEK, WEST DOME				
Second Cat Creek	0	0	4	See Cat Creek, East Dome regulation summary.
Ellis Group	0	0	1	
Morrison Formation	1	0	2	
Cat Creek 1 & 2	22	0	8	
CATTAILS				
Ratcliffe Interval	7	0	0	160-acre spacing units for Ratcliffe zone; wells no closer than 660' to unit boundaries (Order 31-88).
CATTAILS, SOUTH				
Madison Formation or Group	1	0	1	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 Interval	1	0	0	
CEDAR CREEK				
Eagle Formation	0	198	4	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 (Order 32-86). Spacing in Baker North Eagle Unit waived; 660' setback from unit boundaries (Order 93-94). Two Eagle Fm. wells per spacing unit for a portion of field (Order 4-97). 160-acre spacing for Fed. Units 8A & 8B, 660' setback, 460' topographic tolerance (Order 61-98).
Judith River, Eagle	0	1	0	
CHAIN LAKES				
Eagle Formation	0	0	1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
CHARLIE CREEK				
Dawson Bay Formation	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 AREA				
Bakken Formation	1	0	0	Statewide.
CHARLIE CREEK, EAST				
Nisku Formation	1	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).
Red River	2	0	1	
CHARLIE CREEK, NORTH				
	0	0	0	Single Red River spacing unit (Order 37-82).
CHELSEA CREEK				
Nisku Formation	1	0	0	Statewide.
CHINOOK, EAST				
Eagle Formation	0	0	3	Statewide.
Sawtooth Formation	0	0	2	
CHIP CREEK				
Eagle Formation	0	3	0	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 Sandstone	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 Interval	3	0	0	
Nisku Formation	2	0	0	
Red River	6	0	0	
CLEAR LAKE, SOUTH				
Red River	1	0	0	Statewide.
COAL COULEE				
Eagle Formation	0	2	1	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 Formation	0	4	0	Delineated for Judith River and Eagle Formations with 4 wells per 640-acre spacing unit per formation, wells 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).
Judith River Formation	0	0	1	
Second White Specks	0	1	0	
COLORED CANYON				
Nisku Formation	0	0	1	Single Red River spacing unit (Order 28-84). Single 160-acre Nisku spacing unit (Order 86-85). Single Red River Fm. spacing unit, S/2 NW/4 and N/2 SW/4, 7-32N-57E (Order 115-97).
Red River	3	0	0	
COMERTOWN				
Ratcliffe Interval	1	0	1	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 Formation	0	0	2	
Red River	4	0	1	
Nisku, Duperow	0	0	1	
COMERTOWN AREA, SOUTH				
Red River	0	0	1	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
COMERTOWN, SOUTH				
Red River	1	0	0	320-acre designated spacing units, wells no closer than 660' to spacing unit boundaries (Order 96-84). Enlarged (Order 20-85).
CONRAD, SOUTH				
Bow Island Sandstone	0	1	0	Delineated for Dakota production with 10-acre spacing units. Wells in center of each unit with 75' topographic tolerance (Orders 34-62, 31-63).
Dakota Sandstone	3	0	0	
Sunburst Sandstone	1	0	4	
COTTONWOOD				
Ratcliffe Interval	3	0	0	Single 320-acre Red River spacing unit (Order 85-84). Amended to include Ratcliffe (Order 54-92).
Red River	1	0	0	
COTTONWOOD, EAST				
Ratcliffe Interval	1	0	0	Statewide.
COW CREEK				
	0	0	0	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 Formation	5	0	0	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). Amendment of Order 35-74 and designation of ten 80-acre Charles Fm. spacing units (Order 73-97).
CRANE				
Devonian Undifferentiated	1	0	1	320-acre spacing units for Red River and Duperow Formations consisting of one half of a governmental section; well location to be no closer than 660' to spacing unit boundary and no closer than 1,650' to any well drilling to or producing from the same pool (Order 40-79).
Duperow Formation	1	0	0	
Red River	1	0	0	
Red River, Interlake	1	0	0	
CROCKER SPRINGS, EAST				
Madison Formation or Group	0	0	1	Statewide (Order 68-82 which established 80-acre spacing units was vacated by Order 37-87).
CUPTON				
Red River	5	0	1	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	0	0	1	Statewide plus single Red River spacing unit (Order 14-85).
CUT BANK				
Blackleaf Formation	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 in the same reservoir (Orders 82-76, 6-77). Field extension (Order 3-79). Delineation to include all formations from surface to base of Madison Formation (Order 45-80). Field enlarged (Orders 68-83, 13-85). Additional wells in selected spacing units in Special Spacing area (Orders 14-93, 51-93, 2-94). SCCBSU approved (Order 88-85). Cut Bank-Airport Unit approved (Order 26-92). Airport Unit vacated, Westbank Unit approved (Order 32-97).
Bow Island Sandstone	0	21	2	
Cut Bank Sandstone	407	200	404	
Dakota Sandstone	0	1	0	
Kootenai Formation	0	3	1	
Lander Sandstone	1	4	3	
Moulton Sandstone	19	4	40	
Sunburst Sandstone	8	9	5	
Madison Formation or Group	42	0	25	
Moulton, Sunburst	1	0	0	
CX				
Fort Union Formation	0	35	48	Temporary designation, 160-acre spacing units, surface to base Fort Union; four wells per spacing unit, 220' setback from spacing unit boundaries (Order 108-97). Publication of Intent to drill waived (Order 35-98).
DAGMAR				
Red River	2	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
DEAN DOME				
Frontier Formation	0	0	1	Statewide.
Greybull Sandstone	0	0	3	
Lakota Sandstone	0	0	1	
DEER CREEK				
Tyler	0	0	1	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 from the Interlake, Stony Mountain, Red River, and Charles with administrative approval (Order 18-63). 80-acre Charles Fm spacing unit, E/2 NE/4, 17N-53E-22 (Order 75-97). Regular section spacing units for Charles Fm horizontal wells (Orders 20-97, 90-97, 91-97, 118-97). Tyler spacing unit, E/2 NE 35-17N-53E (Order 51-98).
Charles	3	0	0	
Charles C	3	0	2	
DELPHIA				
Amsden Formation	2	0	1	Statewide.
DEN				
McGowan Zone	1	0	0	Single spacing unit for production of oil from Charles and Mission Canyon Formations (Order 34-95).
Ratcliffe Interval	1	0	0	
DEVIL'S BASIN				
Tyler	1	0	1	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 (Orders 103-94, 64-97).
Heath Formation	2	0	7	
DEVIL'S 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 Sandstone	0	23	3	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 quarter section lines 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 Sandstone	0	0	7	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 Sandstone	0	5	6	South Devon Unit drilled on statewide spacing and unitized for primary production (Order 28-71). 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 Formation	1	0	0	320-acre spacing unit with two wells to produce from the Red River or from commercial production at any depth shallower (Order 20-80).
Red River	2	0	0	
DIVIDE				
Madison Formation or Group	3	0	1	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	3	0	0	
Ratcliffe Interval	7	0	1	
Red River	1	0	0	
DIVIDE AREA				
Red River	4	0	0	Statewide.
DOOLEY				
Ratcliffe Interval	3	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
DRY CREEK				
Frontier Formation	0	14	1	Field delineated for Frontier gas production with E 1/2 or W 1/2 of sections as spacing units (Order 8-70). West Dome gas storage project approved (Order 31-66). Enlarged (Order 69-92). Order 8-70 modified to allow N 1/2 or S 1/2 of section as spacing units (Order 31-76).
Judith River Formation	0	3	0	
Virgelle Sandstone	0	2	1	
Greybull Sandstone	0	1	1	
Eagle, Virgelle	0	1	0	
DRY CREEK (SHALLOW GAS)				
Eagle Formation	0	1	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).
Eagle, Virgelle	0	1	0	
DRY CREEK, MIDDLE				
Frontier Formation	0	2	1	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).
Virgelle Sandstone	1	0	0	
DRY CREEK, WEST				
Greybull Sandstone	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 Sandstone	0	5	4	One well per section per horizon above top of Kootenai; wells no closer than 990' to spacing unit boundaries (Order 32-82).
DUGOUT CREEK				
Red River	1	0	0	Delineated for production from Red River with 320-acre spacing units, 660' setback from boundaries (Order 22-82). Field enlargement, S/2 26N-55E-15 (Order 98-98).
DUNKIRK				
Dakota Sandstone	0	13	3	One well per section for each producing zone, formation, or horizon above Kootenai Formation, no closer than 990' to section lines (Order 58-81). Field enlargements (Orders 104-81 and 66-82).
DUNKIRK, NORTH				
Bow Island Sandstone	0	27	7	One well per governmental section per Bow Island zone or horizon. Wells to be located no closer than 990' to section line (Order 25-77). 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). 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, 75' topographic or geologic tolerance (Order 72-91).
Sunburst Sandstone	0	1	0	
Swift Formation	0	1	1	
DUTCH HENRY				
McGowan Zone	2	0	1	Statewide plus two designated 160-acre spacing units (Orders 95-94 and 96-94).
Madison Formation or Group	1	0	0	
Ratcliffe Interval	0	0	2	
Jefferson Formation	1	0	0	
DUTCH JOHN COULEE				
Sunburst Sandstone	3	1	4	Sunburst sand unitization and gas repressuring project approved; operator may drill additional wells anywhere in unit but no closer than 330' to unit boundaries (Order 27-88).
DWYER				
Charles	6	0	5	160-acre Madison spacing units; well location in center of SE 1/4 of spacing units with 175' topographic tolerance (Orders 25-60, 29-61). Field reduction (Order 30-85). Single 320-acre Nisku spacing unit (Order 30-87). Waterflood (Order 20-68). Single Red River spacing unit with 2 wells (Order 97-83). Single 320-acre Winnipegosis spacing unit (Order 10-91). Exception to produce Ratcliffe (Order 60-96). Duperow spacing unit, NE Sec. 11, NW Sec. 12, T32N, R58E (Order 28-98).
Ratcliffe Interval	1	0	1	
Nisku Formation	0	0	1	
Winnipegosis Formation	0	0	1	
Red River	3	0	0	
Nisku, Duperow	1	0	0	
Red River, Nisku	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
EAGLE				
Madison Formation or Group	3	0	0	Statewide.
Mission Canyon	5	0	0	
Ratcliffe Interval	2	0	1	
Duperow Formation	2	0	0	
Interlake Formation	1	0	0	
EAGLE SPRINGS				
Bow Island Sandstone	0	3	6	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). Enlarge field and designation of 80-acre spacing units; permitted well to be located no closer than 330' to the exterior boundaries (Order 112-81).
ELK BASIN				
Frontier Formation	10	0	2	Spacing waived within unit areas (Order 10-61). Frontier: Water injection (Order 1-72). Embar-Tensleep pressure maintenance by crestal gas injection. Waterflood approved in 1966 (Order 5-66). Madison: Water injection (Order 17-61).
Madison Formation or Group	15	0	15	
Embar, Tensleep	22	0	4	
ELK BASIN, NORTHWEST				
Frontier Formation	6	1	4	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). Embar-Tensleep waterflood (Order 3-67, 6-74).
Cloverly	1	0	1	
Madison Formation or Group	3	0	5	
Embar, Tensleep	2	0	0	
ENID, NORTH				
Red River	1	0	2	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).
EPWORTH				
Bakken Formation	1	0	0	Statewide.
ETHRIDGE				
Swift Formation	0	10	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 Sandstone	0	6	1	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 Formation	0	0	1	
FAIRVIEW				
Madison Formation or Group	1	0	0	160-acre spacing units; wells located no closer than 660' to unit boundary (Orders 48-65, 1-67, 43-67, 44-67, 38-84). Field reduction (Order 119-84). Enlargement (Order 16-87). Northwest part of field unitized for gas injection (Order 11-70).
Mission Canyon	3	0	0	
Ratcliffe Interval	3	0	0	
Duperow Formation	1	0	0	
Interlake Formation	1	0	0	
Red River	9	0	4	
FAIRVIEW, EAST				
Ratcliffe Interval	1	0	0	320-acre designated Red River spacing units (Order 76-81).
Winnipegosis Formation	1	0	0	
FAIRVIEW, WEST				
Madison Formation or Group	2	0	0	Statewide.
Ratcliffe Interval	3	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 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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
FIDDLER CREEK				
Greybull Sandstone	0	0	2	Statewide.
FISHHOOK				
Madison Formation or Group	1	0	0	Statewide.
Red River	2	0	0	
FITZPATRICK LAKE				
Bow Island Sandstone	0	9	0	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).
FLAT COULEE				
Bow Island Sandstone	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).
Dakota Sandstone	0	2	1	
Swift Formation	14	1	6	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).
FLAT LAKE				
Madison Formation or Group	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). Lower Ratcliffe permanent spacing unit NE/4 Sec. 13 and NW/4 Sec. 18, 37N-57E, for horizontal well (Order 22-97).
Ratcliffe Interval	25	0	43	
Nisku Formation	12	0	0	
Red River	1	0	1	
FLAT LAKE, EAST				
Madison Formation or Group	1	0	0	Single 160-acre Madison spacing unit (Order 103-84).
FLAT LAKE, SOUTH				
Ratcliffe Interval	3	0	1	160-acre spacing units for Ratcliffe (Order 2-67); 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 wells to be no closer than 660' to the exterior boundaries of the unit (Order 105-82). 150' tolerance for topographic reasons (Order 124-82).
FORT CONRAD				
Bow Island Sandstone	0	13	1	640-acre spacing units for Bow Island gas production; wells no closer than 990' to the section line (Order 19-81). Field enlargement (Order 118-82).
FORT GILBERT				
Madison Formation or Group	3	0	0	160-acre Ratcliffe/Mission Canyon spacing units; wells 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	3	0	1	
Red River	2	0	1	
FOUR BUTTES				
McGowan Zone	0	0	1	Single spacing unit for production from McGowan (Order 15-98).
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 no closer than 660' to the unit boundary with 150' topographic tolerance (Order 13-84).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
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 Sandstone	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 Sandstone	28	0	26	
Swift Formation	0	0	2	
Swift, Sunburst	0	0	1	
FRESNO & AREA				
Eagle Formation	0	5	6	640-acre spacing units for Eagle (Virgelle) and shallower horizons; wells located no closer than 990' to unit boundary; one well per spacing unit per horizon (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 no closer than 660' to the unit boundary (Order 55-79).
FROID, SOUTH				
Winnipegosis Formation	1	0	0	Statewide.
Red River	2	0	0	
GAGE				
First Cat Creek	0	0	1	40-acre Amsden spacing units; well to be in center of each unit with a tolerance of 150' for topographical or geological reasons (Order 120-80). Field enlargement (Order 44-81).
Amsden Formation	2	0	0	
GALATA				
Bow Island Sandstone	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).
GAS CITY				
Madison Formation or Group	2	0	1	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 in unitized portion of field (Order 29-62). Waterflood (Order 16-69).
Siluro-Ordovician	6	0	3	
Red River	3	0	0	
Madison, Ordovician	1	0	0	
GAS LIGHT				
Eagle Formation	0	10	0	Statewide.
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 Formation	2	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 Formation	1	0	0	
GOLD BUTTE				
Bow Island Sandstone	0	0	1	640-acre spacing for Bow Island and Swift, well location in any quarter-quarter section cornering on center of section (Order 26-59). Amended field boundary (Order 43-77).
GOLDEN DOME				
Eagle Formation	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 Formation	2	5	0	
Greybull Sandstone	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
GOOSE LAKE				
Ratcliffe Interval	15	0	11	160-acre spacing units for Ratcliffe Formation (Order 42-63). Field enlarged (Orders 40-66, 47-67, 16-68). Refer to said orders for authorized well locations. Field size reduced (Order 29-77). Single spacing unit for Red River (Order 1-82). North Goose Lake Unit waterflood (Order 17-72).
Red River	2	0	1	
GOOSE LAKE RED RIVER				
Mission Canyon	0	0	1	Two 320-acre spacing units for Red River Formation (Orders 1-82, 56-96). Red River 'D' zone excluded from Order 56-96 (Order 41-97).
Red River	0	0	1	
GOOSE LAKE, WEST				
Red River	2	0	0	Statewide, plus single Red River spacing unit (Order 100-98).
GOSSETT				
Ratcliffe Interval	1	0	0	Statewide.
GRABEN COULEE				
Cut Bank Sandstone	44	1	41	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 (Order 73-62). Waterflood of Cut Bank sands (Order 61-83).
Sunburst Sandstone	8	0	6	
GRANDVIEW				
Bow Island Sandstone	0	4	1	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 Formation	0	1	1	
GRANDVIEW, EAST				
Swift Formation	2	0	0	Statewide.
GRAY BLANKET				
Tensleep Sandstone	1	0	0	40-acre spacing units for Tensleep Formation. Wells located no closer than 330' to spacing unit boundary with 150' tolerance upon administrative approval (Order 20-92).
GREBE (TYLER SAND UNIT)				
Tyler	3	0	1	Tyler secondary recovery unit approved (Order 5-75).
GREEN COULEE				
Ratcliffe Interval	1	0	0	160-acre spacing units for Ratcliffe Formation; well locations no closer than 660' to unit boundaries with 150' tolerance 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 6-95).
GUMBO RIDGE				
Tyler	2	0	4	Tyler Formation waterflood unit (Order 54-79). Certified as an expanded enhanced recovery unit effective 1/1/95 (Order 1/95).
GUNSIGHT				
Madison Formation or Group	1	0	0	Statewide.
Mission Canyon	1	0	0	
Ratcliffe Interval	1	0	0	
GYPSY BASIN				
Moulton Sandstone	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).
Sunburst Sandstone	0	4	8	
Morrison Formation	0	0	1	Sawtooth-Madison oil and gas - 40-acre spacing units; wells no closer than 330' from lease line (Orders 7-66, 12-79).
Swift Formation	0	1	1	
Sawtooth Formation	0	1	3	
Madison Formation or Group	4	1	21	
Devonian Undifferentiated	0	0	1	
Nisku Formation	0	0	1	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
HAMMOND				
Muddy Sandstone	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 Sandstone	0	7	3	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).
HARDPAN AREA				
Bow Island Sandstone	0	1	0	Statewide.
HARDSCRABBLE CREEK				
Red River	1	0	0	Statewide.
HAVRE				
Eagle Formation	0	1	1	Single spacing unit for production of gas from Eagle (Order 48-82).
HAWK CREEK				
Amsden Formation	0	0	1	Statewide.
HAWK HAVEN				
Mission Canyon	1	0	0	Single 320-acre Madison spacing unit (Order 101-94).
HAY CREEK				
Madison Formation or Group	2	0	0	320-acre spacing for Red River, consisting of any two adjacent quarter sections; location no closer than 660' to unit boundary (Orders 15-69, 27-73).
Mission Canyon	1	0	0	
Duperow Formation	1	0	0	
Red River	2	0	0	
HAYSTACK BUTTE				
Bow Island Sandstone	0	6	5	640-acre spacing units; one well per producing horizon above Kootenai Formation no closer than 990' to spacing unit boundary (Order 85-76). Amended field boundary (Order 37-77). Two gas wells per horizon in each spacing unit (Order 146-97).
HAYSTACK BUTTE, WEST				
Bow Island Sandstone	0	8	0	320-acre regular half-section spacing units for all formations above Rierdon; wells no closer than 660' to the unit boundaries; commingling of production authorized as specified (Order 6-88). Field enlarged (Order 46-91).
HELL COULEE				
Ratcliffe Interval	1	0	0	Statewide.
HIAWATHA				
Tyler	1	0	1	Statewide.
Tyler, Stensvad	1	0	0	
HIBBARD				
Tyler	2	0	0	Statewide.
HIGH FIVE				
Stensvad	3	0	6	Spacing waived, unitized, and polymer-waterflood authorized (Order 110-80).
Tyler	4	0	1	
HIGHLINE				
Eagle Formation	0	1	0	Single 640-acre spacing unit for Eagle and shallower horizons (Order 35-88).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
HIGHVIEW				
Swift Formation	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 Formation	1	0	0	
Madison Formation or Group	3	0	16	
Devonian Undifferentiated	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).
HOWARD COULEE				
Tyler	1	0	0	Statewide.
INJUN CREEK				
Stensvad	2	0	0	Statewide.
INTAKE II				
Mission Canyon	2	0	0	320-acre spacing units for Red River Formation; permitted well to be located no closer than 660' from the unit boundary (Order 99-81).
Madison, Ordovician	0	0	1	
IVANHOE				
Second Cat Creek	1	0	0	40-acre spacing unit for production from any one 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 Formation	2	0	0	
Amsden Formation	2	0	1	
Tyler	3	0	3	
Amsden, Tyler	0	0	1	
JIM COULEE				
Tyler	4	0	2	Unitized, no well to be drilled closer than 330' to unit boundary (Order 18-72).
KATY LAKE				
Red River	1	0	0	Statewide.
KATY LAKE, NORTH				
Madison Formation or Group	3	0	0	Statewide except for single 320-acre Red River spacing unit (Order 88-84), and single 160-acre Mission Canyon spacing unit (Order 89-84).
Mission Canyon	1	0	0	
Nesson Zone	1	0	0	
Red River	5	0	0	
KEG COULEE				
Stensvad	0	0	1	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). Amended (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).
Tyler	7	0	12	
Lower Tyler	2	0	3	
KEG COULEE, NORTH				
Tyler	0	0	1	40-acre spacing units with wells to be located at center of each spacing unit; 150' topographic tolerance (Order 46-64). Field reduction (Order 59-76).
KEITH AREA				
Second White Specks	0	2	4	Statewide.
Bow Island Sandstone	0	1	0	
Sawtooth Formation	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
KEITH, EAST				
Niobrara Formation	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). Kolthei 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	12	0	
Bow Island Sandstone	0	11	0	
Sawtooth Formation	0	7	0	
KELLEY				
Tyler	1	0	2	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 AREA				
Swift Formation	0	1	0	Statewide.
KEVIN SOUTHWEST				
Eagle Formation	0	0	1	320-acre half section spacing units lying north-south or east-west at operator's option; wells 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). 2 wells per horizon per spacing unit (Order 68-99).
Bow Island Sandstone	0	1	1	
Dakota Sandstone	0	5	0	
Kootenai Formation	0	1	0	
Sunburst Sandstone	0	8	1	
Swift Formation	0	2	0	
Bow Island, Dakota, Sunburst	0	2	0	
Bow Island, Dakota	0	3	0	
Bow Island, Dakota, Sunburst, Swift	0	1	0	
Bow Island, Sunburst	0	3	1	
Sunburst, Dakota	0	2	0	
KEVIN SUNBURST				
Blackleaf Formation	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). H ₂ S, CO ₂ 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 Sandstone	0	23	4	
Burwash Sandstone	0	0	2	
Cut Bank Sandstone	0	1	0	
Dakota Sandstone	0	2	0	
Sunburst Sandstone	94	42	73	
Ellis Group	29	1	54	
Swift Formation	25	9	10	
Sawtooth Formation	0	0	1	
Madison Formation or Group	530	8	979	
Nisku Formation	1	1	1	
Bow Island, Dakota, Sunburst	0	2	0	
Bow Island, Dakota	0	2	1	
Bow Island, Sunburst	0	10	0	
Bow Island, Swift	0	7	1	
Bow Island, Dakota, Kootenai, Sunburst	0	3	0	
Ellis, Madison	1	0	1	
Sunburst, Dakota	0	2	0	
Nisku, Sunburst	0	0	1	
Swift, Sunburst	0	3	0	
KEVIN SUNBURST (DAKOTA)				
Dakota Sandstone	0	1	0	Single spacing unit for gas production from Dakota (Order 45-90).
KEVIN SUNBURST, NISKU & AREA				
Nisku Formation	0	2	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). Gas spacing unit comprised of N/2 and N/2 S/2 35N-1W-35 (Order 10-98).
KEVIN SUNBURST-BOW ISLAND				
Bow Island Sandstone	0	5	2	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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
KEVIN, EAST BOW ISLAND GAS				
Bow Island Sandstone	0	1	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).
KEVIN, EAST GAS				
Sunburst Sandstone	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	1	0	
Bow Island, Sunburst	0	2	0	
Swift, Sunburst	0	1	0	
KEVIN, EAST NISKU OIL				
Nisku Formation	15	1	4	80-acre spacing units consisting of E 1/2 or W 1/2 of quarter section; wells in center of SW 1/4 or NE 1/4 of each quarter section with 200' geologic or topographic tolerance (Order 46-84). Field enlarged (Order 9-86). Single spacing unit authorized to produce gas from the gas cap (Order 24-88). Exceptions to drill horizontal Nisku wells (Orders 29-97, 11-98). Exception to drill NW/4 SW/4, 35N-1E-31 (Order 70-97).
KICKING HORSE				
Eagle Formation	0	0	1	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). 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).
Bow Island Sandstone	0	13	0	
Sunburst Sandstone	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 SOUTH				
	0	0	0	Single Bow Island spacing unit with one well; location no closer than 990' to section line (Order 31-81).
KIPPEN AREA, EAST				
Sawtooth Formation	0	0	1	Statewide.
Madison, Swift	0	0	1	
LAIRD CREEK (LAIRD CREEK UNIT)				
Swift Formation	6	1	3	Waterflood authorized for Swift Formation (Order 25-74), commenced 2-25-77. Single 320-acre spacing unit for Swift gas production (Order 37-92).
LAKE BASIN				
Big Elk Sandstone	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).
Claggett Shale	0	0	1	
Eagle Formation	0	0	1	
LAKE BASIN, NORTH				
Eagle Formation	0	0	1	640-acre spacing units 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). 160-acre spacing units for Frontier gas, 2N-21E, W/2 27 and NW/4 34, 660' external setback (Order 63-99).
LAKESIDE				
Eagle Formation	0	0	3	Statewide.
LAMBERT				
Interlake Formation	0	0	1	320-acre Red River spacing units comprised of the E 1/2 and W 1/2 of section (Order 3-83).
Red River	0	0	1	
LAMBERT, SOUTH				
Red River	3	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				
Mississippian Undifferentiated	0	0	1	Statewide.
Madison Formation or Group	10	0	7	
Sun River Dolomite	1	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LANE				
Red River	2	0	0	Statewide.
LAREDO				
Eagle Formation	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				
	0	0	0	40-acre spacing units for Muddy Formation; wells located no closer than 330' to spacing unit boundary with 75' topographic tolerance (Order 115-84 which amended Orders 12-69, 19-70, and 68-76).
LEDGER				
Bow Island Sandstone	0	45	7	640-acre Bow Island spacing; wells located no closer than 990' to section line; commingling upon administrative approval (Order 53-77). Field enlargement and amendment to allow two wells per sand per section (Order 1-87).
Sawtooth Formation	0	0	1	
LEROY				
Eagle Formation	0	23	15	320-acre spacing for Judith River and Eagle/Virgelle with unit consisting of half sections lying north-south or east-west. Wells no closer than 660' to unit boundary and 990' to field boundary. (Order 19-75) 330' topographic tolerance (Order 72-80). Field enlargement (Order 31-87).
LISCOM CREEK				
Shannon Sandstone	0	6	1	Shannon spacing, one well per 640 acres located no closer than 990' to section boundary (Order 20-72).
LISK CREEK				
Dawson Bay Formation	0	0	1	Statewide.
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	27	0	18	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	12	0	1	
Red River	3	0	0	
LITTLE CREEK				
Eagle Formation	0	2	1	Statewide.
Virgelle Sandstone	0	0	1	
LITTLE PHANTOM				
Sunburst Sandstone	0	0	1	10-acre spacing units; well location 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 Formation	0	11	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 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).
Lander Sandstone	0	6	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	2	0	3	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LITTLE WALL CREEK, SOUTH				
Tyler	7	0	3	South Little Wall Creek Unit waterflood (Order 85-83). Gunderson Tyler Sand Unit (Order 39-87; unit area reduced by Order 21-92). Hamilton-Gunderson Tyler Sand Unit (Order 22-92).
LODGE GRASS				
Tensleep Sandstone	2	0	0	Statewide.
LOHMAN				
Eagle Formation	0	2	4	640-acre Eagle spacing; one well per section located no closer than 990' from section line (Order 23-78).
LOHMAN AREA				
Eagle Formation	0	4	0	Statewide.
LONE BUTTE				
Madison Formation or Group	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 Interval	0	0	1	
Red River	2	0	0	
LONETREE CREEK				
Mission Canyon	1	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, S/2, Sec. 10, T24N, R57E (Order 45-93). Interlake spacing unit, N/2, Sec. 10, T24N, R57E (Order 51-95).
Nisku Formation	1	0	0	
Interlake Formation	2	0	0	
Red River	4	0	1	
Red River, Interlake	1	0	0	
LONETREE CREEK, WEST				
	0	0	0	Red River spacing units, 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 Formation	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 Formation or Group	3	0	4	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 (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	41	1	11	
Red River	7	0	1	
LOOKOUT BUTTE AREA, EAST				
Lodgepole Limestone	1	0	0	22 delineated Red River spacing units with wells located no closer than 660' to the unit boundary with 175' topographic tolerance (Order 87-85). Field enlargement and inclusion of Madison Group and all Silurian formations (Order 6-87). Pilot waterflood (Orders 19-88, 21-89, 42-90A, 49-90, 77-92, 35-93, 23-94). Redelineation of pilot area, certification as an expanded enhanced recovery project (Order 53-94). Red River Formation enhanced recovery unit (Order 70-95).
Red River	75	0	21	
LORING				
Bowdoin	0	6	0	640-acre spacing units with 2 wells per formation (Order 79-82 and 12-89). 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, inter-well distance reduced to 990' (Order 15-91). Commingle Carlile/Bowdoin, Greenhorn and Phillips (Order 26-98).
Carlile Shale	0	84	4	
Greenhorn	0	3	0	
Phillips Sandstone	0	4	1	
Bowdoin, Greenhorn, Phillips	0	64	1	
Bowdoin, Greenhorn	0	19	2	
Greenhorn-Phillips	0	32	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
LORING, EAST				
Bowdoin	0	5	1	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn and Phillips) exist, a well may be drilled to each formation and may be located no closer than 660' from the spacing unit boundaries (Order 60-82). 640-acre spacing for lands under communitization agreements prior to field delineation, 4 wells per spacing unit; authorization to commingle (Order 39-97).
Carlile Shale	0	12	1	
Greenhorn	0	4	0	
Judith River Formation	0	1	0	
Martin Sandstone	0	2	0	
Phillips Sandstone	0	23	6	
Bowdoin, Greenhorn, Phillips	0	33	5	
Bowdoin, Greenhorn	0	20	4	
Greenhorn-Phillips	0	8	0	
LORING, WEST				
Bowdoin	0	3	1	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). Field enlargement, commingling (Order 27-98).
Carlile Shale	0	2	0	
Martin Sandstone	0	2	0	
Phillips Sandstone	0	3	0	
Bowdoin, Greenhorn, Phillips	0	1	0	
Greenhorn-Phillips	0	1	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).
LOWELL, SOUTH				
Red River	1	0	0	Single Red River Formation spacing unit (Order 29-98).
LUSTRE				
Charles	11	0	1	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 Interval	5	0	0	
LUSTRE, NORTH				
Charles	0	0	1	80-acre spacing units for Madison Group Formations consisting of E 1/2 or W 1/2 of a governmental quarter section; wells located no closer than 660' to spacing unit boundary with 200' topographic or geologic tolerance (Order 39-84).
MACKAY DOME				
Greybull Sandstone	1	0	0	Statewide.
MARIAS RIVER				
Bow Island Sandstone	0	16	1	One well per section per horizon above the top of the Kootenai (Order 18-78). Field enlargement (Order 12-83). 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 Sandstone	0	0	1	
MASON LAKE				
First Cat Creek	4	0	8	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).
Third Cat Creek	0	0	1	
Amsden Formation	1	0	2	
MCCABE				
Ratcliffe Interval	1	0	0	160-acre spacing units for Madison group; permitted wells no closer than 660' to spacing unit boundary (Orders 100-80, 43-79). 150' topographic tolerance (Order 3-81). Amended to eliminate the requirement of 1,650' between wells producing from the Madison group (Order 37-81).
MCCABE, EAST				
Red River	1	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
MCCOY CREEK				
Red River	1	0	0	Statewide.
MEANDER				
Sunburst Sandstone	2	0	0	40-acre spacing units for Sunburst with wells not closer than 330' to spacing unit boundaries (Order 30-82).
MEDICINE LAKE				
Mission Canyon	1	0	0	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 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).
Duperow Formation	1	0	0	
Winnepegosis Formation	1	0	0	
Gunton Formation	2	0	1	
Red River	2	0	1	
MEDICINE LAKE, SOUTH				
Red River	2	0	0	Two designated 320-acre spacing units for Red River Formation production (Orders 101 and 102-98).
MELSTONE				
Tyler	2	0	0	Statewide.
MELSTONE, NORTH				
Tyler	7	0	3	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 Formation	0	1	0	
Bow Island Sandstone	0	4	2	
MIDFORK				
Charles C	7	0	0	Statewide. Also a single 80-acre Charles Formation spacing unit (Order 46-92).
Nisku Formation	2	0	0	
MILK RIVER				
Phillips Sandstone	0	0	1	Single 160-acre spacing unit for Phillips gas production (Order 12-98).
MINERS COULEE				
Blackleaf Formation	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 Sandstone	0	11	5	
Sunburst Sandstone	1	1	9	
Sawtooth Formation	0	0	1	
Sawtooth, Madison	0	1	0	
Swift, Sunburst	0	1	0	
MISSOURI BREAKS				
Ratcliffe Interval	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).
Nisku Formation	1	0	0	
MON DAK, WEST				
Madison Formation or Group	6	1	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; wells 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 spacing unit boundaries 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, amended, Order 95-83). Field Reduction (Order 42-96).
Mission Canyon	6	0	0	
Devonian Undifferentiated	0	1	0	
Duperow Formation	1	0	0	
Interlake Formation	1	0	0	
Siluro-Ordovician	0	0	1	
Red River	4	0	0	
Stony Mountain Formation	1	0	1	
Madison, Ordovician	2	0	0	
Red River, Stony Mountain	1	0	0	
MONA				
Red River	1	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
MONARCH				
Madison Formation or Group	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). Spacing units for horizontal wells (Orders 81-94, 2-96, 3-96, 68-96, 103-97, 24-98, 73-99).
Interlake Formation	4	0	0	
Siluro-Ordovician	15	0	4	
Red River	6	0	2	
MOSSER DOME				
Mosser Sand	17	0	7	Spacing waived. Future development requires administrative approval (Order 27-62).
MT. LILLY				
Bow Island Sandstone	0	1	0	640-acre spacing for Madison; well location in center of any of the four quarter-quarter sections adjoining center of section; 250' topographic tolerance (Order 37-63).
Swift Formation	0	1	0	
Madison Formation or Group	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 Formation or Group	1	0	0	Statewide.
Bakken Formation	5	0	0	
Red River	1	0	0	
MUSTANG (BAKKEN)				
	0	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). Include Winnipegosis and commingling (Order 98-97).
NIELSEN COULEE				
Madison Formation or Group	0	1	1	Statewide. Second well in quarter section authorized (Order 37-93).
NINEMILE				
	0	0	0	Statewide.
NOHLY				
Madison Formation or Group	4	0	0	Single Red River spacing unit (Order 77-83). Field enlarged, 320-acre designated Red River spacing units (Orders 54-84, 104-98). 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 no closer than 660' to the spacing unit boundaries (Order 70-92). Ratcliffe/Mission Canyon Field enlargement (Orders 6-94, 105-94).
Mission Canyon	2	0	0	
Ratcliffe Interval	4	0	0	
Nisku Formation	4	0	0	
Red River	3	0	1	
NOHLY AREA				
Ratcliffe Interval	2	0	0	Statewide.
Red River	0	0	1	
NORTH FORK				
Mission Canyon	3	0	0	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	2	1	Statewide.
Blackleaf Formation	0	1	0	
Bow Island Sandstone	0	11	4	
Bow Island Spike	0	2	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
OLD SHELBY				
Eagle Formation	0	0	1	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).
Bow Island Sandstone	0	4	1	
Sunburst Sandstone	0	52	17	
Swift Formation	0	33	4	
Swift, Sunburst	0	4	0	
OLJE				
	0	0	0	Single 160-acre spacing unit (Order 35-85).
OLLIE				
Red River	0	0	1	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 Interval	1	0	0	Statewide.
OTIS CREEK, SOUTH				
Ratcliffe Interval	0	0	1	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). Amended, new spacing units to consist of quarter sections; well location no closer than 660' to spacing unit boundary or 1,650' to producing wells with 150' tolerance (Order 73-81). Single 160-acre spacing unit for Charles Formation (Order 9-95).
Stonewall Formation	1	0	0	
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				
Madison Formation or Group	1	0	0	160-acre spacing units for Siluro-Devonian; well location in center of either SW 1/4 or NE 1/4 of each quarter section; 175' topographic tolerance (Order 19-59A).
Mission Canyon	1	0	0	
Bakken Formation	1	0	1	
Duperow Formation	0	0	1	
Nisku Formation	2	0	2	
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 Formation	1	0	0	Single 320-acre spacing unit (Order 92-94).
OUTLOOK, WEST				
Winnipegosis Formation	1	0	0	160-acre spacing units for Winnipegosis; permitted wells in 840' square in the center of spacing unit and no closer than 900' to quarter section boundaries (Order 7-67, amended, 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 aligned 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 Formation	1	0	0	320-acre spacing units for Red River consisting of two contiguous quarter sections which may cross section lines; wells located no closer than 660' to spacing unit boundaries (Order 50-84).
Red River	1	0	0	
PALOMINO				
Nisku Formation	6	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
PARK CITY				
Frontier Formation	0	0	2	Statewide.
PELICAN				
	0	0	0	Field rules vacated (Order 81-97).
PENNEL				
Siluro-Ordovician	157	0	69	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, 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 acre spacing) and in SE 1/4 of each quarter section (160-acre spacing) (Orders 1-56, 8-56, 15-61, 20-62, 4-63, 7-63). Spacing 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). 660' internal setback from unit boundary (Order 74-99).
Red River	32	0	4	
Stony Mountain Formation	1	0	1	
PENNEL AREA				
Red River	1	0	0	Statewide.
PETE CREEK				
Sunburst Sandstone	0	0	1	Statewide.
PHANTOM				
Sunburst Sandstone	0	2	4	Gas: wells 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 Sandstone	0	2	0	Delineated for Sunburst Sandstone gas production with one well per spacing unit located no closer than 660' to the exterior boundaries of the three designated spacing units (Order 65-78).
PINE				
Madison Formation or Group	1	0	4	Statewide spacing rules 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). Re-delineation (Order 16-97). 640-acre spacing unit for horizontal wells (Order 23-98).
Mission Canyon	1	0	2	
Siluro-Ordovician	79	0	74	
Stony Mountain Formation	0	0	1	
PINE GAS				
Eagle Formation	0	29	13	160-acre spacing units for production of gas from top of the Judith River to top of the Greenhorn, wells no closer than 660' to spacing unit boundaries with 460' topographic tolerance (Order 60-98). Field enlargements (Orders 64-98, 47-99, 48-99, 36-00, 37-00).
Judith River Formation	0	25	1	
PLEVNA				
Eagle Formation	0	2	0	Delineated for Judith River and Eagle gas production, 1200' setback from quarter section lines, 2400' between wells on same lease, 75' topographic tolerance (Order 34-54). Redelineation (Order 4-57).
POLICE COULEE				
Bow Island Sandstone	0	8	1	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 Formation or Group	261	0	158	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: Wells no closer than 1,320' from any quarter section line, nor 3,700' to other drilling or producible wells on the same lease or unit (Order 9-54 corrected). Designate six 160-acre spacing units for gas, wells no closer than 660' from unit boundaries (Order 26-83).
Sun River Dolomite	14	0	0	
PONDERA COULEE				
Madison Formation or Group	2	0	6	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance (Order 5-62).
Sun River Dolomite	0	0	5	
POPLAR AREA, NORTHWEST				
	0	0	0	Statewide.
POPLAR, EAST				
Heath Formation	2	0	1	Field delineation (Order 7-55). Redelineation (Order 25-76). Horizontal well exception and removal of production restrictions for horizontal wells (Order 67-93). Unitized (Order 7-55). Removal of internal setback requirements except for non-committed lands (Order 69-96).
Charles	3	0	3	
Charles C	1	0	0	
Madison Formation or Group	36	0	23	
Nisku Formation	0	0	2	
POPLAR, NORTHWEST				
Charles	3	0	1	80-acre spacing units, E 1/2 and W 1/2 of each quarter section; wells in the center of NW 1/4 or SE 1/4 of each quarter section with 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	16	0	2	
Madison Formation or Group	1	0	0	
POTTER				
Eagle Formation	0	0	1	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 (Order 8-93).
Swift Formation	0	0	1	
PRAIRIE DELL				
Eagle Formation	0	0	1	320-acre spacing units for all horizons above the Rierdon, wells 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, 63-97, 49-98, 50-98). Two wells per spacing unit 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 Sandstone	0	12	2	
Dakota Sandstone	0	1	0	
Sunburst Sandstone	0	11	2	
Swift Formation	0	12	0	
Madison Formation or Group	0	0	1	
Bow Island, Dakota, Sunburst	0	11	1	
Bow Island, Sunburst, Swift	0	6	0	
Bow Island, Dakota, Swift	0	7	0	
Bow Island, Dakota	0	14	0	
Bow Island, Dakota, Sunburst, Swift	0	10	0	
Bow Island, Sunburst	0	21	1	
Bow Island, Swift	0	11	1	
Bow Island, Dakota, Kootenai, Swift	0	1	0	
Dakota, Sunburst, Swift	0	1	0	
Sunburst, Dakota	0	3	0	
Swift, Sunburst	0	1	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
PRAIRIE DELL, WEST				
Bow Island Sandstone	0	1	0	640-acre spacing unit for Swift Formation with well no closer than 990' to spacing unit boundary (Order 16-78). 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).
Sunburst Sandstone	0	2	0	
Swift Formation	0	2	0	
Bow Island, Dakota, Swift	0	2	0	
Bow Island, Sunburst	0	1	0	
Bow Island, Swift	0	2	0	
Bow Island, Dakota, Kootenai, Sunburst	0	1	0	
PRAIRIE ELK				
	0	0	0	Statewide.
PRICHARD CREEK				
Bow Island Sandstone	0	0	1	Sunburst/Swift spacing rules waived with locations subject to administrative approval. Unitized for Sunburst waterflood (Order 7-73).
Sunburst Sandstone	0	0	5	
Swift Formation	0	0	1	
PRONGHORN				
Red River	1	0	0	160-acre spacing units for Red River; wells located no closer than 660' to unit boundary with 150' topographic or geologic tolerance (Orders 75-84 and 110-84).
PUTNAM				
Madison Formation or Group	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 (Orders 2-84, Order 11-85). Single Mission Canyon Formation spacing unit, E/2 NE/4, Sec. 32 and W/2 NW/4, Sec. 33, T23N, R57E (Order 18-93).
Mission Canyon	8	0	0	
Ratcliffe Interval	1	0	0	
Bakken Formation	4	0	0	
Interlake Formation	1	0	0	
Red River	2	0	1	
Red River, Interlake	1	0	0	
RABBIT HILLS				
Sawtooth Formation	4	0	0	Statewide. Pilot tertiary recovery project including a portion of Northeast Rabbit Hills Field (Order 78-95).
RABBIT HILLS, NORTHEAST				
Eagle Formation	0	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).
Sawtooth Formation	10	0	1	
RABBIT HILLS, SOUTH				
Bowes Member	2	0	0	Statewide.
Sawtooth Formation	2	0	0	
RABBIT HILLS, SOUTHWEST				
Sawtooth Formation	1	0	1	160-acre (quarter section) spacing units for Sawtooth, 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				
Amsden Formation	0	0	1	40-acre spacing units; 75' topographic tolerance (Order 8-59). Spacing waived for Tyler "A" Sand Unit except no well can be closer than 660' to unit boundary, Tyler "A" waterflood (Order 35-65). Certification of expanded enhanced recovery project effective 4/1/95 (Order 18-95).
Tyler	2	0	8	
Madison Formation or Group	0	0	1	
RAGGED POINT, SOUTHWEST				
Tyler	8	0	3	Waterflood approval; drill and produce Tyler "A" Formation wells 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).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RAPELJE				
Eagle Formation	0	0	1	160-acre spacing for formations from surface to base of Telegraph Creek; wells no closer than 990' to unit boundary; commingling with administrative approval (Order 29-73).
Virgelle Sandstone	0	0	1	
Eagle, Claggett, Virgelle	0	0	4	
RATTLER BUTTE				
Third Cat Creek	0	0	2	Rattler Butte (Tyler "A") Unit approved (Order 39-92). East Rattler Butte (Tyler "C") Unit (Order 90-98).
Tyler	8	0	3	
RATTLESNAKE BUTTE				
First Cat Creek	1	0	1	Statewide.
Second Cat Creek	1	0	1	
Amsden Formation	2	0	4	
RATTLESNAKE COULEE				
Bow Island Sandstone	0	0	2	Statewide.
Sunburst Sandstone	0	1	0	
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 Formation	0	1	0	
Nisku Formation	1	2	1	
Winnipegosis Formation	1	0	0	
Red River	1	0	1	
RAYMOND, NORTH				
Red River	1	0	1	Delineated with single Red River spacing unit (Order 94-82). Enlargement, designated spacing unit (Order 31-98).
REAGAN				
Blackleaf Formation	0	1	0	Statewide. (Order 17-54) A pressure maintenance project utilizing gas injection (Order 21-60). Waterflood (Order 27-72).
Madison Formation or Group	51	3	15	
RED BANK				
Madison Formation or Group	2	0	1	Statewide.
Mission Canyon	3	0	1	
Ratcliffe Interval	1	0	2	
RED BANK, SOUTH				
Red River	1	0	0	Statewide.
RED CREEK				
Cut Bank Sandstone	4	0	3	40-acre spacing units; wells in center of spacing unit with 75' topographic 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 Sandstone	1	0	0	
Madison Formation or Group	10	0	12	
Cut Bank, Madison	4	0	8	
RED FOX				
	0	0	0	Field consists of one 160-acre spacing unit for Nisku production (Order 20-67).
RED ROCK				
Eagle Formation	0	28	21	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).
Niobrara Formation	0	1	0	
Second White Specks	0	2	0	
RED WATER				
Bakken Formation	1	0	0	Statewide.
Winnipegosis Formation	1	0	0	
Red River	1	0	0	
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 no closer than 660' to exterior boundaries of spacing unit (Order 31-83).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
REDSTONE				
Winnipegosis Formation	1	0	0	160-acre spacing units for production from the Winnipegosis; wells no closer than 660' to spacing unit boundaries (Order 30-67).
REFUGE				
Nisku Formation	1	0	0	Statewide.
Red River	2	0	0	
RESERVE				
Red River	5	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 Formation	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 Interval	0	0	1	Single spacing unit for Red River production (Order 33-86).
RICHEY				
Charles	0	0	2	Statewide, original 80-acre spacing revoked (Order 11-73).
RICHEY, SOUTHWEST				
	0	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). Waterflood project in the Interlake and Dawson Bay (Order 34-65).
RIDGELAWN				
Madison Formation or Group	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 (Orders 49-89, 55-89 and 11-90).
Mission Canyon	6	0	2	
Ratcliffe Interval	3	0	0	
Duperow Formation	4	0	2	
Red River	4	0	0	
RIDGELAWN, NORTH				
Madison Formation or Group	1	0	0	Single 640-acre spacing unit (Order 11-92).
Mission Canyon	1	0	0	
RIPRAP COULEE				
Ratcliffe Interval	4	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).
ROCKY BOY AREA				
Eagle Formation	0	4	1	Statewide.
ROCKY POINT				
Red River	1	0	0	320-acre Red River spacing unit; wells no closer than 660' to exterior boundary (Order 22-79).
ROSCOE DOME				
Lakota Sandstone	0	0	5	Statewide. Steam injection into Greybull and Lakota formations (Order 40-82).
ROSEBUD				
Tyler	3	0	2	Statewide. Rosebud "Tyler B" waterflood unit approved (Order 30-91).
ROUGH RIDGE				
Eagle Formation	0	0	1	Statewide.
ROYALS				
Dawson Bay Formation	1	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
RUDYARD				
Eagle Formation	0	2	3	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 reduction (Order 39-76). 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 Formation	1	2	2	
RUNAWAY				
Madison Formation or Group	0	0	3	Statewide.
RUSH MOUNTAIN				
Ratcliffe Interval	1	0	0	Statewide. Commingling, Hoffelt #2 well (Order 17-85).
Gunton Formation	1	0	0	
Red River	0	0	1	
SAGE CREEK				
Eagle Formation	0	0	1	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). Boundary amendment (Order 86-79). Enlargement (Orders 33-81, 65-83 and 36-84).
Second White Specks	0	14	10	
Blackleaf Formation	0	2	0	
Bow Island Sandstone	0	1	0	
SALT LAKE				
Nisku Formation	2	0	1	Four 160-acre spacing units for Red River Formation with production allocation by stipulated agreement (Order 48-89).
Gunton Formation	1	0	0	
Red River	3	0	0	
SALT LAKE, WEST				
Ratcliffe Interval	1	0	0	Single 160-acre spacing unit for Ratcliffe production (Order 47-92).
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 Formation	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				
	0	0	0	Statewide.
SAWTOOTH MOUNTAIN & AREA				
Eagle Formation	0	39	8	640-acre spacing units for Eagle and Judith River formations, one well per section per formation located not less than 990' from governmental section line (Order 45-76). 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). 4 wells per formation per section for 3 additional sections (Ordered 62-89).
Judith River Formation	0	7	1	
SECOND CREEK				
Ratcliffe Interval	0	0	2	303.1-acre Red River spacing unit (Order 34-78). 160-acre Duperow spacing units; well locations for each unit as specified (Order 119-80). Duperow spacing units combined into single spacing unit (Order 97-98).
Duperow Formation	1	0	0	
Red River	1	0	0	
SECOND GUESS				
Madison Formation or Group	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 Sandstone	0	1	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SHELBY, EAST				
Eagle Formation	0	0	1	640-acre spacing units for all formations from the surface to the top of the Rierdon Formation (Order 8-91). Enlarged, 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). Enlarged for Bow Island production (Order 61-91).
Bow Island Sandstone	0	1	0	
Burwash Sandstone	0	1	0	
Sunburst Sandstone	0	6	3	
Swift, Sunburst	0	1	0	
SHERARD				
Eagle Formation	0	10	5	640-acre Eagle spacing units; 990' setback from section line (Order 1-74). 160-acre Eagle spacing units for Section 8, T25N, R17E; wells located no closer than 990' from section line, 660' from quarter section line (Order 7-77). Enlarged, 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 no closer than 990' to spacing unit boundaries (Order 24-87).
Judith River Formation	0	1	0	
SHERARD, AREA				
Eagle Formation	0	41	55	Statewide, numerous exceptions.
Judith River Formation	0	4	3	
SHORT CREEK				
Nisku Formation	1	0	0	Single 640-acre Nisku spacing unit with 4 horizontal wells, 330' setback from section lines (Order 40-99).
SHOTGUN CREEK				
Mission Canyon	0	0	1	Statewide.
Ratcliffe Interval	5	0	1	
SHOTGUN CREEK, NORTH				
	0	0	0	320-acre spacing units for Red River and Gunton production; wells located no closer than 660' to spacing unit boundaries and 1500' to another well producing from the same formation (Order 49-77).
SIDNEY				
Madison Formation or Group	3	0	0	160-acre spacing units for Madison group with one well per spacing unit to be located no closer than 660' from unit boundary and no closer than 1,650' to well producing from the same formation (Order 5-79). Field enlargement (Order 99-80).
Mission Canyon	1	0	1	
Ratcliffe Interval	3	0	1	
Red River	2	0	0	
SIDNEY, EAST				
Mission Canyon	1	0	0	Statewide.
Ratcliffe Interval	1	0	0	
SINGLETREE				
Ratcliffe Interval	0	0	1	Single spacing unit for production from Winnipegosis (Order 78-84).
SIOUX PASS				
Interlake Formation	1	0	0	320-acre spacing units for Interlake and Red River consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option; permitted well no closer than 660' from unit boundary; 160-acre spacing units for Mission Canyon with well no closer than 660' from unit boundary; commingling of Interlake and Red River production authorized (Orders 10-75, 15-77). Amended field boundary (Order 15-77). Field reduction (Order 89-81). Additional wells (Orders 82-96, 83-96).
Red River	6	0	0	
Red River, Interlake	3	0	0	
SIOUX PASS, EAST				
Red River	0	0	1	Statewide.
SIOUX PASS, MIDDLE				
Red River	2	0	2	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 upon administrative approval (Order 55-76). Exception location (Order 39-81).
SIOUX PASS, NORTH				
Madison Formation or Group	2	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). Additional well, E2 26N-58E-7 (Order 30-97).
Ratcliffe Interval	2	0	0	
Red River	8	0	0	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
SIOUX PASS, SOUTH				
Red River	2	0	0	Statewide.
SIOUX PASS, WEST				
Red River	2	0	0	Designated 320-acre spacing units for Red River Formation (Orders 105-98, 106-98).
SIXSHOOTER DOME				
Eagle Formation	0	3	1	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 Formation	0	1	0	
Lakota Sandstone	0	3	0	
SNAKE CREEK				
Winnipegosis Formation	1	0	0	Designated 320-acre spacing unit for Gunton, Winnipegosis, Red River (Order 63-98).
Gunton Formation	1	0	0	
Red River	1	0	0	
SNOOSE COULEE				
Bow Island Sandstone	0	9	0	640-acre spacing units for Bow Island and shallower formations; wells no closer than 990' to spacing unit boundary (Order 18-77). 320-acre Sunburst gas spacing unit approved (Order 58-88). Field enlargement, authorization for two wells per section for formations above the Kootenai, 660' setback from section lines, commingling (Order 30-00).
Sunburst Sandstone	0	0	1	
SNOW COULEE				
Sunburst Sandstone	0	1	0	Two 320-acre spacing units for Sunburst gas production (Order 78-76).
SNYDER				
Tensleep Sandstone	2	0	2	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance (Order 45-62).
SOAP CREEK				
Tensleep Sandstone	9	0	1	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 Formation	1	0	0	
Madison Formation or Group	17	0	1	
Madison, Amsden	6	0	1	
SOAP CREEK, EAST				
Tensleep Sandstone	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				
Eagle Formation	0	0	1	Statewide.
Greenhorn	0	1	1	
SPRING LAKE				
Bakken Formation	4	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 Formation	1	0	0	
Red River	0	0	1	
SPRING LAKE, WEST				
Bakken Formation	1	0	0	Single 160-acre Duperow spacing unit (Order 42-82).
STAMPEDE				
Bakken Formation	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	

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
STENSVAD				
Tyler	6	0	9	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).
STRAWBERRY CREEK AREA				
Bow Island Sandstone	0	1	1	Statewide.
Burwash Sandstone	0	1	0	
STUDHORSE				
Tyler	1	0	4	Statewide.
SUMATRA				
Amsden Formation	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(Orders 48-67, 6-69, 19-69, 23-69, 5-75, 21-78, and 43-80). Convert CSTSU, SESTSU and Kincheloe Sumatra Unit to tertiary recovery projects (Orders 99-84, 100-84 and 29-85). Certification of Kincheloe Sumatra Unit (Order 23-95) and West Sumatra Unit (Order 68-95) as an expanded enhanced recovery projects.
Tyler	34	0	40	
Lower Tyler	7	0	2	
Heath Formation	1	0	0	
Madison Formation or Group	0	0	1	
SUNDOWN				
Red River	1	0	0	Single Red River Formation spacing unit (Order 11-97).
SUNNY HILL				
Ratcliffe Interval	1	0	0	320-acre Red River & Duperow spacing units; wells no closer than 660' to exterior spacing unit boundaries nor closer than 1,650' to any well producing from same formation. 160-acre Madison spacing units; location no closer than 660' to section or quarter section lines (Order 39-78). Field reduction (Order 79-84).
SUNNY HILL, WEST				
Ratcliffe Interval	0	0	1	Single 320-acre spacing unit consisting of S/2, Sec. 14, T31N, R57E (Order 55-93).
SWANSON CREEK				
Carlile Shale	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 enlargement (Orders 32-78, 92-79, 66-80 and 55-81). Previous orders amended to allow one additional well in each existing 320-acre spacing unit, no more than one well per quarter section located no closer than 660' to the quarter section boundaries (Order 28-82).
Phillips Sandstone	0	66	2	
Bowdoin, Greenhorn, Phillips	0	3	0	
Greenhorn-Phillips	0	7	0	
SWEETGRASS				
Sunburst Sandstone	0	0	1	Single Sunburst gas spacing unit (Order 121-82).
SWEETGRASS AREA				
Sunburst Sandstone	0	0	1	Statewide.
TARGET				
Madison Formation or Group	0	0	2	Single spacing unit for Mission Canyon/Ratcliffe formations (Order 18-82). Field enlargement and establishment of 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 Interval	3	0	3	
Nisku Formation	2	0	0	
THIRTY MILE				
Sawtooth Formation	0	0	2	Statewide.
THREE BUTTES				
Bakken Formation	3	0	0	160-acre spacing units for Madison Group formations, wells no closer than 660' from spacing unit boundaries (Order 11-81). Red River and Bakken Fm. delineation, SW/4 23N-57E-19 (Order 59-97).
Red River	2	0	0	
THREE MILE				
Eagle Formation	0	3	3	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
TIBER				
Bow Island Sandstone	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 AREA				
Bow Island Sandstone	0	2	0	Statewide.
TIBER, EAST				
Bow Island Sandstone	0	9	0	Two wells from same Bow Island horizon per section located no closer than 990' to section lines and 1,320' to each other (Orders 21-84 and 28-85).
TIGER RIDGE				
Eagle Formation	0	430	90	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 area not unitized. Numerous spacing rule amendments.
Judith River Formation	0	7	0	
TIGER RIDGE AREA				
Eagle Formation	0	1	2	Statewide.
TIGER RIDGE, NORTH				
Eagle Formation	0	1	0	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 Sandstone	0	1	0	Single 640-acre spacing unit for Sunburst Sandstone production, Sec. 6, T35N, R1E (Order 91-76).
TINDER BOX				
Tyler	2	0	0	Statewide.
Lower Tyler	1	0	0	
TRAIL CREEK				
Bow Island Sandstone	0	6	0	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 Sandstone	0	2	0	
Swift, Sunburst	0	1	0	
TULE CREEK				
Devonian Undifferentiated	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 Formation	2	0	0	
TULE CREEK, EAST				
Nisku Formation	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 Formation	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 Formation	0	0	1	Statewide.
Judith River Formation	0	0	1	
TWO WATERS				
Bakken Formation	2	0	0	Statewide.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
UTOPIA				
Bow Island Sandstone	0	4	1	640-acre spacing units for formations between top of Kootenai and top of Greenhorn; well location no closer than 990' to any section line (Order 13-80). 40-acre spacing units for Swift Formation; location to be in center of quarter-quarter section with 100' topographic tolerance (Order 9-78). 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 (Orders 11-89, 38-89, 33-90). Certification as expanded enhanced recovery project effective 10/1/94 (Order 88-94).
Swift Formation	18	0	10	
Sawtooth Formation	0	2	0	
VALIER				
Blackleaf Formation	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				
Carlile Shale	0	7	1	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn, and Phillips) exist a well may be drilled to each formation; wells to be located no closer than 660' to the spacing unit boundaries (Order 61-82).
VAUX				
Madison Formation or Group	5	0	1	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 Interval	0	0	1	
Bakken Formation	2	0	0	
Interlake Formation	1	0	0	
Red River	3	0	1	
Stonewall Formation	1	0	0	
VOLT				
Madison Formation or Group	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 Formation	3	0	1	
WAKEA				
Nisku Formation	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 in one well (Order 59-91).
Winnipegosis Formation	2	0	1	
Interlake Formation	1	0	0	
Red River	2	0	0	
Nisku, Duperow	1	0	0	
WATERHOLE CREEK				
Red River	5	0	2	Delineation for production of oil from horizontal Red River Formation wells; spacing units set by order (Order 120-97).
WEED CREEK				
Amsden Formation	1	0	1	Statewide.
WEST BUTTE				
Bow Island Sandstone	0	3	1	Sawtooth-Madison gas commingled, unitized; no well closer than 330' to unit boundary (Order 5-72).
Sunburst Sandstone	2	0	4	
WEST BUTTE SHALLOW GAS				
Bow Island Sandstone	0	2	1	160-acre spacing units; with one well permitted for each gas producing formation above the top of the Kootenai to the surface within each 160-acre spacing unit; well locations not closer than 990' to the spacing unit boundaries (Order 39-77).
WEYGAND				
Eagle Formation	0	0	1	Statewide.
Sawtooth Formation	3	0	2	
WHITEWATER				
Carlile Shale	0	97	0	640-acre spacing units with 2 wells per formation (Orders 41-82 and 14-89). 4 wells per formation per spacing unit no closer than 660' to spacing unit boundaries, 1,320' between wells producing from the same formation, 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).
Greenhorn	0	22	0	
Phillips Sandstone	0	29	0	
Bowdoin, Greenhorn, Phillips	0	58	1	
Bowdoin, Greenhorn	0	20	0	
Greenhorn-Phillips	0	68	1	

OIL AND GAS FIELDS

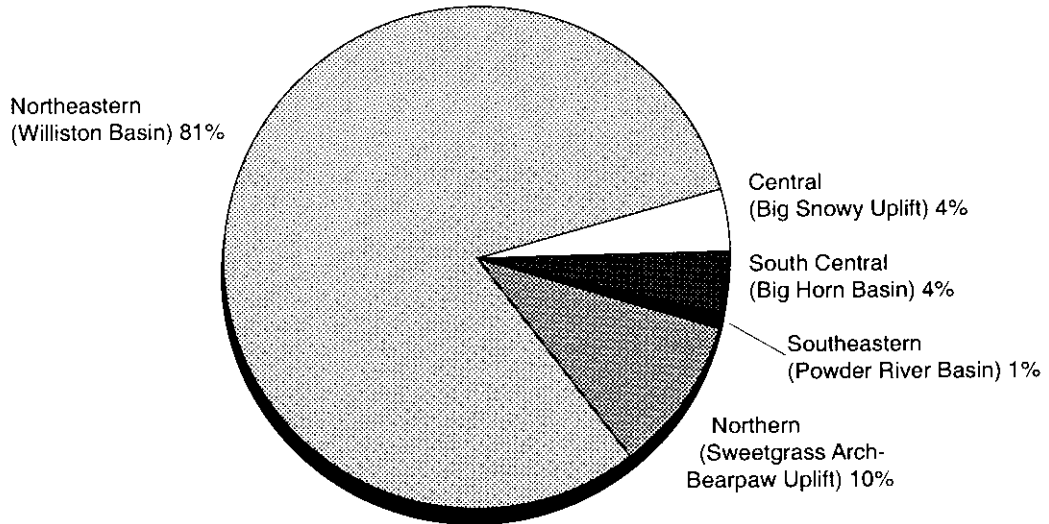
Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WHITEWATER, EAST				
Carlile Shale	0	12	0	640-acre spacing units with two wells allowed per formation to be located anywhere within the spacing unit but not closer than 990' to spacing unit boundary (Order 100-83). 4 wells 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). Field enlargement, commingling (Order 33-98).
Greenhorn	0	1	0	
Martin Sandstone	0	1	0	
Phillips Sandstone	0	18	0	
Greenhorn-Phillips	0	10	0	
WHITLASH				
Bow Island Sandstone	5	26	3	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; 75' topographic tolerance (Orders 16-54, 27-70). 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). Whitlash East (Shafer) Swift Sand Unit (Order 6-99). Whitlash East (State) Swift Sand Unit (Order 7-99). Whitlash Northeast Swift Sand Unit (Order 87-99).
Dakota Sandstone	0	0	3	
Sunburst Sandstone	0	2	2	
Rierdon Shale	0	0	1	
Swift Formation	14	7	27	
Madison Formation or Group	0	1	1	
Bow Island, Dakota	0	2	0	
Bow Island Spike	0	1	0	
Swift, Sunburst	16	3	21	
WHITLASH, WEST				
Bow Island Sandstone	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). Amendment (Order 48-77). Field extension (Order 18-79).
Sunburst Sandstone	0	7	4	
Swift, Sunburst	0	0	4	
WILD HORSE				
Eagle Formation	0	0	2	Statewide.
WILLIAMS				
Bow Island Sandstone	0	15	5	640-acre spacing unit; well to be located no closer than 990' to exterior boundary for all formations above the Kootenai (Order 49-79). Enlargement (Order 102-79, 11-83).
WILLOW CREEK, NORTH				
Tyler	2	0	3	Statewide. Pilot waterflood (Order 19-72).
WILLOW RIDGE				
Bow Island Sandstone	0	10	1	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, 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). Willow Ridge (Burwash) Unit (Order 88-97).
Burwash Sandstone	2	0	0	
Sunburst Sandstone	0	1	0	
WILLOW RIDGE, SOUTH				
Bow Island Sandstone	0	1	0	Statewide.
Sunburst Sandstone	0	1	0	
WILLOW RIDGE, WEST				
Bow Island Sandstone	0	2	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	3	0	2	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, designation of single 640-acre spacing unit for up to 4 horizontal or vertical wells (Order 4-95).
WINDY RIDGE				
Red River	3	1	3	Delineated for production of oil from horizontal Red River Formation wells; spacing units set by order; delineation to be reviewed in October, 2000 (Order 121-97).

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-In	Spacing Regulations, Field Rules, and Remarks
WINNETT JUNCTION				
Tyler	3	0	1	20-acre spacing units consisting of 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 vacated (Order 41-77). A waterflood operation commenced October 1, 1977 into Tyler Formation (Order 41-77).
WOLF SPRINGS				
Amsden Formation	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 Formation	1	0	0	Statewide.
WOLF SPRINGS, SOUTH				
Amsden Formation	2	0	2	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).
Interlake Formation	0	0	1	
Charles, Interlake	1	0	0	
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 Sandstone	5	0	2	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).

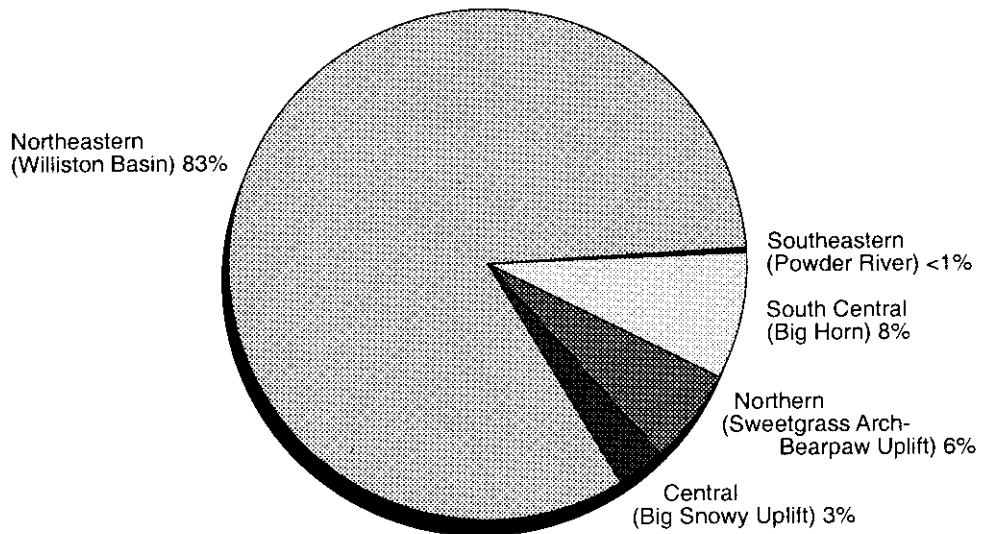
1999 Oil Production by Region

15,266,561 Barrels



1999 Oil Reserves by Region

(132 Million Barrels)



SUMMARY OF PRODUCING

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR %	
											PRIM.	SECD.
1.	Alkali Coulee	Red River	Sheridan	1997	10920	0.0	0.00	3	0	0	0	0
2.	Anvil	Nisku	Roosevelt	1981	10900	40.0	1.50	14	17	34	44	0
3.	Anvil	Ratcliffe	Roosevelt	1982	8990	36.0	1.35	22	11	50	8	0
4.	Anvil	Red River	Roosevelt	1978	12600	47.0	1.63	26	14	32	13	0
5.	Ator Creek	Red River	Sheridan	1996	9000	39.9	0.00	8	0	0	0	0
6.	Bainville	Ratcliffe	Roosevelt	1996	8630	38.0	0.00	16	0	0	0	0
7.	Bainville	Siluro/Ord.	Roosevelt	1969	12402	44.0	0.00	8	25	31	0	0
8.	Bainville (RAT/MC)	Ratcliffe/Mission C	Roosevelt	1993	8900	0.0	0.00	0	0	0	0	0
9.	Bainville II	Red River	Roosevelt	1981	12700	42.0	1.20	40	10	35	6	0
10.	Bainville, North	Nisku	Roosevelt	1992	10832	43.4	0.00	8	0	0	0	0
11.	Bainville, North	Ratcliffe	Roosevelt	1980	8800	30.0	0.00	13	14	52	0	0
12.	Bainville, North	Red River/Interlake	Roosevelt	1979	12400	43.0	1.55	40	9	32	11	0
13.	Bainville, North	Winnipegosis	Roosevelt	1979	11400	44.0	1.60	35	7	20	16	0
14.	Bainville, West	Red River	Roosevelt	1978	8500	34.0	1.50	12	6	45	14	0
15.	Bannatyne	Swift	Teton	1927	1500	27.0	1.05	39	15	43	2	0
16.	Beanblossom	Lower Tyler	Garfield	1985	4562	32.0	1.05	22	21	35	6	0
17.	Bears Den	Swift	Liberty	1924	2300	39.0	1.08	20	9	35	26	0
18.	Bell Creek	Muddy	Powder River	1967	4400	36.0	1.11	10	26	23	31	28
19.	Benrud, East	Nisku	Roosevelt	1962	7500	46.0	1.37	22	15	30	36	0
20.	Big Wall	Amsden	Musselshell	1953	2500	19.0	1.01	17	16	35	29	0
21.	Big Wall	Lower Tyler Unit	Musselshell	1948	3000	31.0	1.02	22	17	40	33	1
22.	Big Wall	Upper Tyler Unit	Musselshell	1948	3000	30.8	1.03	16	17	32	4	0
23.	Blackfoot	Devonian/Madison	Glacier	1957	3500	30.0	1.10	15	15	35	26	22
24.	Bloomfield	Dawson Bay	Dawson	1984	10500	41.0	1.38	15	2	25	52	0
25.	Bloomfield	Interlake/Red River	Dawson	1983	10650	43.0	1.32	13	4	0	25	0
26.	Blue Hill	Red River	Richland	1977	12600	48.0	1.35	32	10	60	11	0
27.	Blue Mountain	Red River	Wibaux	1984	11949	31.0	1.25	20	18	15	1	0
28.	Bowes Sawtooth Unit	Sawtooth	Blaine	1949	3300	19.0	1.02	32	12	31	15	0
29.	Breed Creek	Tyler	Rosebud	1976	4900	32.0	1.15	20	15	37	45	0
30.	Brorson	Interlake	Richland	1995	12024	0.0	0.00	6	0	0	0	0
31.	Brorson	Madison	Richland	1954	9600	32.0	1.40	40	5	40	15	0
32.	Brorson	Red River	Richland	1968	12600	48.0	1.70	20	10	35	33	0
33.	Brorson, South	Bakken	Richland	1990	10400	42.0	0.00	24	0	4	0	0
34.	Brorson, South	Madison	Richland	1978	9000	42.0	0.00	52	0	0	0	0
35.	Brush Lake	Red River	Sheridan	1969	11400	40.0	1.50	30	14	35	12	0
36.	Burget, East	Madison	Roosevelt	1981	9000	0.0	0.00	36	0	0	0	0
37.	Cabin Creek Unit 1	Siluro/Ord.	Fallon	1953	9000	33.0	1.20	50	13	30	10	11
38.	Cabin Creek Unit 2	Madison	Fallon	1956	7300	33.0	1.13	25	11	30	53	0
39.	Canal	Madison	Richland	1977	9200	33.0	1.30	47	2	41	31	0
40.	Canal	Red River	Richland	1970	12700	47.0	2.07	58	8	40	24	0
41.	Cattails	Ratcliffe	Richland	1987	8975	31.6	0.00	0	0	0	0	0
42.	Cattails, South	Ratcliffe	Richland	1991	9445	33.4	0.00	26	0	0	0	0
43.	Charlie Creek	Dawson Bay	Richland	1994	10600	0.0	0.00	10	0	0	0	0
44.	Charlie Creek Area	Bakken	Richland	1997	9710	0.0	0.00	7	0	0	0	0
45.	Charlie Creek, East	Red River	Richland	1980	11900	45.0	0.00	27	0	0	0	0
46.	Chelsea Creek	Nisku	Roosevelt	1961	7626	44.7	0.00	0	0	0	0	0

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD			
0	0	160	0	0	0	0	0	0	0	3455	9	34	8	1.
4	0	480	3900	8125	1720	0	1720	3583	256	33604	92	1262	458	2.
8	0	480	3338	6954	280	0	280	583	27	5904	16	253	27	3.
3	0	2560	30159	11780	3830	0	3830	1496	58	47573	130	3378	452	4.
0	0	160	0	0	0	0	0	0	0	2772	8	25	8	5.
0	0	320	0	0	0	0	0	0	0	4602	13	92	32	6.
0	0	1920	0	0	0	0	0	0	0	24465	67	657	141	7.
0	0	160	0	0	0	0	0	0	0	4370	12	29	23	8.
6	0	960	16137	16809	990	0	990	1031	26	23978	66	759	231	9.
0	0	800	0	0	0	0	0	0	0	69390	190	444	272	10.
0	0	640	0	0	0	0	0	0	0	43727	120	393	134	11.
1	0	3200	39208	12252	4420	0	4420	1381	35	309703	849	2711	1709	12.
6	0	1280	12165	9503	1930	0	1930	1508	43	76710	210	1307	623	13.
4	0	960	1966	2047	280	0	280	292	24	2990	8	254	26	14.
2	0	1000	24637	24637	460	0	460	460	12	6331	17	428	32	15.
6	0	480	10650	22187	590	0	590	1229	56	10058	28	541	49	16.
6	0	360	3026	8405	790	0	790	2194	110	13131	36	756	34	17.
1	28	16000	223878	13992	70400	62690	133090	8318	832	202185	554	132654	436	18.
6	0	640	8372	13081	2990	0	2990	4672	212	4254	12	2975	15	19.
9	0	320	4346	13581	1240	0	1240	3875	228	11803	32	1193	47	20.
3	1	1220	20822	17067	6970	210	7180	5885	268	21078	58	6970	210	21.
4	0	480	6687	13931	240	0	240	500	31	9076	25	144	96	22.
6	22	360	3713	10313	960	820	1780	4944	330	12077	33	1760	20	23.
5	0	320	405	1265	210	0	210	656	44	2793	8	190	20	24.
5	0	640	1956	3056	480	0	480	750	58	9321	26	434	46	25.
1	0	640	4708	7356	530	0	530	828	26	36795	101	301	229	26.
1	0	640	12155	18992	180	0	180	281	14	12960	36	137	43	27.
5	0	3760	75774	20152	11390	0	11390	3029	95	81999	225	10863	527	28.
5	0	480	6120	12750	2760	0	2760	5750	288	92077	252	2331	429	29.
0	0	80	0	0	0	0	0	0	0	16559	45	156	90	30.
5	0	1760	11703	6649	1770	0	1770	1006	25	30744	84	1688	82	31.
3	0	1600	9492	5932	3110	0	3110	1944	97	41790	114	2782	328	32.
0	0	480	0	0	0	0	0	0	0	14056	39	262	16	33.
0	0	640	0	0	0	0	0	0	0	25240	69	365	185	34.
2	0	2240	31628	14119	3690	0	3690	1647	55	102822	282	3225	465	35.
0	0	640	0	0	0	0	0	0	0	12035	33	296	143	36.
10	11	16320	480065	29415	46870	52810	99680	6108	122	998571	2736	88976	10704	37.
53	0	2260	29868	13215	15860	0	15860	7018	281	57036	156	15470	390	38.
31	0	640	2118	3309	660	0	660	1031	22	9706	27	597	63	39.
24	0	320	3339	10434	810	0	810	2531	44	9674	27	741	69	40.
0	0	1120	0	0	0	0	0	0	0	31896	87	956	98	41.
0	0	640	0	0	0	0	0	0	0	9524	26	193	15	42.
0	0	320	0	0	0	0	0	0	0	11447	31	116	20	43.
0	0	160	0	0	0	0	0	0	0	7425	20	27	36	44.
0	0	960	0	0	0	0	0	0	0	22180	61	755	76	45.
0	0	160	0	0	0	0	0	0	0	3234	9	96	8	46.

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.	SEC.
47.	Clear Lake	Madison	Sheridan	1978	7600	33.0	1.15	10	5	30	40	
48.	Clear Lake	Nisku	Sheridan	1979	9000	43.0	1.53	31	11	27	4	
49.	Clear Lake	Red River	Sheridan	1977	11200	42.0	1.65	32	18	35	9	
50.	Clear Lake, South	Red River	Sheridan	1984	11500	38.0	1.39	10	23	21	4	
51.	Colored Canyon	Red River	Sheridan	1978	11300	40.0	1.40	18	13	28	7	
52.	Comertown	Red River	Sheridan	1980	10500	30.0	1.30	19	10	38	41	
53.	Comertown, South	Red River	Sheridan	1984	11000	38.0	1.08	17	12	50	7	
54.	Cottonwood	Ratcliffe	Richland	1992	8805	0.0	0.00	12	0	0	0	
55.	Cottonwood, East	Ratcliffe	Richland	1990	8842	31.5	0.00	36	0	46	0	
56.	Cow Creek, East	Kibby	McCone	1971	6300	35.0	1.05	15	15	0	11	
57.	Crane	Devonian	Richland	1979	11900	47.0	1.65	20	12	35	23	
58.	Crane	Siluro/Ord.	Richland	1979	12700	44.4	1.50	8	12	18	34	
59.	Cupton	Red River	Fallon	1955	9600	38.0	1.25	40	12	16	6	
60.	Cut Bank	Cut Bank/Madison	Glacier/ Toole	1932	2900	31.0	1.09	18	15	35	22	
61.	Dagmar	Red River	Sheridan	1976	11300	37.0	1.65	22	16	35	5	
62.	Deer Creek	Charles	Dawson	1990	7870	30.2	1.00	10	13	50	16	
63.	Diamond Point	Red River	Roosevelt	1976	11900	47.0	0.00	26	0	0	0	
64.	Divide	Madison	Sheridan	1979	7900	33.0	1.35	25	7	42	20	
65.	Divide	Red River	Sheridan	1987	11398	35.4	0.00	14	0	0	0	
66.	Dooley	Ratcliffe	Sheridan	1987	6451	28.0	0.00	0	0	0	0	
67.	Dutch John Coulee	Sunburst	Toole	1985	2040	48.0	1.20	12	21	30	11	
68.	Dwyer	Red River	Sheridan	1982	11552	35.0	0.00	0	0	0	0	
69.	Dwyer Non Unit	Ratcliffe	Sheridan	1960	8000	33.2	0.00	0	0	0	0	
70.	Dwyer Unit	Charles	Sheridan	1960	8000	37.0	1.32	38	11	56	16	
71.	Eagle	Madison	Richland	1977	8900	32.0	1.22	15	9	35	10	
72.	Elk Basin	Frontier	Carbon	1915	1400	28.9	0.00	0	0	0	0	
73.	Elk Basin	Madison	Carbon	1942	5300	28.0	1.12	224	12	9	36	
74.	Elk Basin	Tensleep	Carbon	1942	5000	29.0	1.16	124	11	10	25	
75.	Elk Basin, NW	Madison/Tensleep	Carbon	1964	6000	37.0	1.15	27	12	22	5	
76.	Enid, North	Red River	Richland	1979	11800	47.0	1.75	8	7	34	27	
77.	Fairview	Madison	Richland	1981	9520	34.0	1.60	45	4	51	16	
78.	Fairview NW Unit	Red River	Richland	1965	12700	47.7	0.00	0	0	0	0	
79.	Fairview Non Unit	Red River	Richland	1965	12700	47.0	1.70	35	11	28	23	
80.	Fairview, East	Madison	Richland	1994	9157	0.0	0.00	30	0	0	0	
81.	Fairview, East	Winnipegosis	Richland	1990	11590	36.8	0.00	7	8	30	0	
82.	Fairview, West	Madison	Richland	1980	9200	37.0	0.00	60	3	0	0	
83.	Fishhook	Red River	Sheridan	1980	11200	41.0	1.28	10	10	31	21	
84.	Flat Coulee Unit	Swift	Liberty	1933	2900	37.0	1.10	18	21	35	15	
85.	Flat Lake	Nisku	Sheridan	1982	8042	0.0	0.00	0	0	0	0	
86.	Flat Lake	Ratcliffe	Sheridan	1964	6500	33.0	1.26	14	15	45	29	
87.	Flat Lake, East	Madison	Sheridan	1984	6523	28.0	0.00	0	0	0	0	
88.	Fort Gilbert	Madison	Richland	1981	9200	35.0	1.30	30	6	55	9	
89.	Fort Gilbert	Red River	Richland	1970	12500	48.0	1.89	42	12	20	8	
90.	Four Mile Creek	Red River	Richland	1975	12500	47.0	1.50	35	15	35	9	
91.	Four Mile Creek, W.	Red River	Richland	1976	12500	45.0	1.30	15	13	40	25	
92.	Fred & George Creek	Sunburst	Toole	1963	2600	39.0	1.20	31	27	30	10	
93.	Frog Coulee	Red River	Richland	1979	11000	49.0	1.42	15	18	35	15	
94.	Froid, South	Red River	Roosevelt	1970	12100	48.0	1.55	12	17	25	9	

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV. DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD			
40	0	960	2267	2361	900	0	900	938	94	20563	56	786	114	47.
4	0	480	6059	12622	260	0	260	542	17	8338	23	220	40	48.
9	0	2240	39432	17603	3630	0	3630	1621	51	62458	171	2964	666	49.
4	0	640	6490	10140	240	0	240	375	38	4339	12	226	14	50.
7	0	1920	17926	9336	1220	0	1220	635	35	56876	156	1038	182	51.
41	0	800	5624	7030	2330	0	2330	2913	153	37114	102	2067	263	52.
7	0	960	7034	7327	490	0	490	510	30	14241	39	356	134	53.
0	0	480	0	0	0	0	0	0	0	27900	76	245	168	54.
0	0	160	0	0	0	0	0	0	0	8304	23	103	89	55.
11	0	1600	26599	16624	2830	0	2830	1769	118	20556	56	2671	159	56.
23	0	960	7041	7334	1620	0	1620	1688	84	19665	54	1545	75	57.
34	0	960	3909	4071	1330	0	1330	1385	173	35208	96	1228	102	58.
6	0	2240	56054	25024	3490	0	3490	1558	39	45859	126	2754	736	59.
22	6	49000	612063	12491	133090	36720	169810	3466	193	455033	1247	168065	1745	60.
5	0	1280	13770	10757	740	0	740	578	26	9314	26	677	63	61.
16	0	1120	5648	5042	920	0	920	821	82	75306	206	416	504	62.
0	0	960	0	0	0	0	0	0	0	21280	58	1089	219	63.
20	0	2240	13066	5833	2570	0	2570	1147	46	39502	108	2189	381	64.
0	0	1600	0	0	0	0	0	0	0	53924	148	868	249	65.
0	0	640	0	0	0	0	0	0	0	11593	32	339	46	66.
11	0	200	2281	11405	260	0	260	1300	108	7882	22	223	37	67.
0	0	1600	0	0	0	0	0	0	0	39222	107	1710	219	68.
0	0	1440	0	0	0	0	0	0	0	2377	7	566	6	69.
16	5	2960	31996	10809	5190	1600	6790	2294	60	24913	68	6668	122	70.
10	0	3040	16963	5579	1690	0	1690	556	37	28286	77	1658	32	71.
0	0	520	0	0	0	0	0	0	0	6409	18	1763	26	72.
36	0	1080	182989	169434	65560	0	65560	60704	271	201205	551	59763	5797	73.
25	0	1400	114941	82100	29250	0	29250	20893	168	260627	714	25471	3779	74.
5	3	2080	35461	17048	1620	1060	2680	1288	48	51669	142	2395	285	75.
27	0	960	1573	1638	430	0	430	448	56	5603	15	410	20	76.
16	0	960	4106	4277	660	0	660	688	15	15998	44	644	16	77.
0	0	2240	0	0	0	0	0	0	0	48376	133	831	562	78.
23	0	2880	36432	12650	8230	0	8230	2858	82	30349	83	8000	230	79.
0	0	320	0	0	0	0	0	0	0	6374	17	31	28	80.
0	0	320	0	0	0	0	0	0	0	9313	26	84	82	81.
0	0	800	0	0	0	0	0	0	0	17925	49	455	10	82.
21	0	1280	5353	4182	1120	0	1120	875	88	12030	33	1025	95	83.
15	0	640	11090	17328	1670	0	1670	2609	145	47280	130	1127	543	84.
0	0	1600	0	0	0	0	0	0	0	208727	572	791	839	85.
29	0	9600	68270	7111	19830	0	19830	2066	148	182724	501	16978	2852	86.
0	0	160	0	0	0	0	0	0	0	10660	29	164	409	87.
9	0	2240	10828	4833	1000	0	1000	446	15	13565	37	956	44	88.
8	0	1280	21185	16550	1610	0	1610	1258	30	13675	37	1527	83	89.
9	0	320	5648	17650	500	0	500	1563	45	6714	18	436	64	90.
25	0	640	4469	6982	1100	0	1100	1719	115	22346	61	473	627	91.
10	14	1480	56060	37878	5712	7848	13560	9162	296	27798	76	13444	116	92.
15	0	320	3068	9587	460	0	460	1438	96	14745	40	280	180	93.
9	0	640	4901	7657	440	0	440	688	57	18829	52	316	124	94.

SUMMARY OF PRODUCING

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR %	
											PRIM.	SECND.
95.	Gas City	Red River/Madison	Dawson	1955	8900	38.0	1.28	25	12	35	29	5
96.	Girard	Bakken	Richland	1966	11839	40.0	1.15	18	10	8	7	0
97.	Girard	Red River	Richland	1985	11850	43.6	0.00	8	0	9	0	0
98.	Glendive	Siluro/Ord.	Dawson	1952	8900	38.0	1.24	147	8	35	13	0
99.	Goose Lake	Ratcliffe	Sheridan	1962	7000	34.0	1.20	40	16	55	5	3
100.	Goose Lake	Red River	Sheridan	1980	11063	0.0	0.00	0	0	0	0	0
101.	Goose Lake, West	Red River	Sheridan	1981	11500	39.0	0.00	29	0	0	0	0
102.	Gray Blanket	Tensleep	Big Horn	1991	6115	22.0	1.05	9	18	18	31	0
103.	Gunsight	Madison	Roosevelt	1980	9550	36.0	0.00	0	0	0	0	0
104.	Hardscrabble Creek	Red River	Richland	1981	12550	46.0	1.36	7	15	30	7	0
105.	Hay Creek	Siluro/Ord.	Richland	1969	12600	46.0	1.90	53	12	30	9	0
106.	Hiawatha	Tyler	Musselshell	1967	5000	33.0	1.15	34	12	25	22	0
107.	High Five	Tyler/Stensvad	Rosebud	1976	5600	33.0	1.15	20	20	0	12	0
108.	Howard Coulee	Tyler	Musselshell	1974	3498	31.0	0.00	0	0	0	0	0
109.	Intake II	Ratcliffe	Richland	1982	9200	32.3	0.00	10	13	43	0	0
110.	Ivanhoe	Morrison	Musselshell	1960	4135	33.0	1.10	11	15	40	7	0
111.	Ivanhoe	Tyler	Musselshell	1956	4100	33.0	1.08	29	15	20	32	0
112.	Jim Coulee Unit	Tyler	Musselshell	1971	3700	33.0	1.10	37	15	33	3	6
113.	Katy Lake	Red River	Sheridan	1984	11523	0.0	0.00	11	0	0	0	0
114.	Katy Lake, North	Mission Canyon	Sheridan	1981	8056	35.0	1.34	18	18	57	30	0
115.	Katy Lake, North	Red River	Sheridan	1979	11300	46.0	1.42	19	15	30	27	0
116.	Keg Coulee Tyler SU	Tyler	Musselshell	1960	4600	33.0	1.00	19	14	32	26	3
117.	Kelley	Tyler	Musselshell	1966	4400	33.0	1.15	50	13	30	14	0
118.	Kevin East Nisku Oil	Nisku	Toole	1984	3000	39.0	1.10	7	9	30	48	0
119.	Kevin Sunburst	Total Production	Toole	1922	1500	32.0	1.08	7	20	35	23	3
120.	Kincheloe Ranch, W.	Tyler Unit	Rosebud	1980	5344	38.0	0.00	18	0	0	0	0
121.	Lambert	Red River	Richland	1980	12200	44.0	0.00	7	13	40	0	0
122.	Lambert, South	Red River	Richland	1997	11859	0.0	0.00	0	0	0	0	0
123.	Landslide Butte	Madison/Sun River	Glacier	1967	4700	41.0	0.00	24	0	0	0	0
124.	Little Beaver Unit	Red River	Fallon	1952	8300	29.0	1.29	37	12	35	7	10
125.	Little Beaver, East	Mission Canyon	Fallon	1993	6772	31.5	0.00	4	0	0	0	0
126.	Little Beaver, East	Red River	Fallon	1954	8300	30.0	1.50	24	13	35	31	0
127.	Little Wall Creek	Tyler/Stensvad	Musselshell	1970	3700	33.0	1.10	40	15	33	18	0
128.	Lodge Grass	Tensleep	Big Horn	1964	6520	22.0	1.16	15	15	34	6	0
129.	Lonetree Creek	Mission Canyon	Richland	1991	9147	35.1	0.00	0	0	50	0	0
130.	Lonetree Creek	Red River/Interlake	Richland	1970	12500	47.0	1.86	19	11	30	28	0
131.	Long Creek, West	Nisku	Roosevelt	1977	7700	39.0	1.25	24	16	20	16	0
132.	Lookout Butte	Red River/Madison	Fallon	1961	8900	33.0	1.15	15	15	25	8	19
133.	Lookout Butte, East	Red River	Fallon	1984	9300	31.3	0.00	0	0	0	0	0
134.	Lustre	Madison	Valley	1982	7200	33.0	1.19	27	16	45	5	0
135.	McCabe	Ratcliffe	Roosevelt	1973	8700	37.0	1.50	20	13	40	9	0
136.	Medicine Lake	Devonian	Sheridan	1980	10300	44.0	0.00	11	0	49	0	0
137.	Medicine Lake	Mission Canyon	Sheridan	1979	8500	0.0	0.00	0	0	0	0	0
138.	Medicine Lake	Siluro/Ord.	Sheridan	1984	11319	43.5	1.55	38	9	35	10	0
139.	Melstone	Tyler	Musselshell	1948	4400	34.0	1.09	25	15	30	29	0
140.	Midfork	Charles	Valley	1985	7174	38.3	0.00	0	0	0	0	0
141.	Midfork	Nisku	Valley	1990	7200	45.6	0.00	4	0	0	0	0

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD			
29	5	2800	33093	11818	9550	1650	11200	4000	160	53370	146	10588	612	95.
7	0	640	7150	11171	470	0	470	734	41	7780	21	441	29	96.
0	0	320	0	0	0	0	0	0	0	12169	33	172	148	97.
13	0	2400	114778	47824	15350	0	15350	6396	44	99266	272	13995	1355	98.
5	3	6880	128100	18619	5920	3840	9760	1419	35	42476	116	9530	230	99.
0	0	640	0	0	0	0	0	0	0	23332	64	404	255	100.
0	0	960	0	0	0	0	0	0	0	15892	44	664	103	101.
31	0	160	1570	9812	480	0	480	3000	333	23617	65	255	225	102.
0	0	480	0	0	0	0	0	0	0	11568	32	371	70	103.
7	0	640	2683	4192	180	0	180	281	40	7689	21	157	23	104.
9	0	960	17451	18178	1540	0	1540	1604	30	20810	57	1300	240	105.
22	0	400	8257	20642	1850	0	1850	4625	136	11336	31	1685	165	106.
12	0	960	25905	26984	3160	0	3160	3292	165	30341	83	2902	258	107.
0	0	160	0	0	0	0	0	0	0	3788	10	201	38	108.
0	0	320	0	0	0	0	0	0	0	12914	35	232	54	109.
7	0	80	559	6987	40	0	40	500	45	1755	5	32	8	110.
32	0	600	14999	24998	4780	0	4780	7967	275	16143	44	4648	132	111.
3	6	1920	50353	26225	1340	2880	4220	2198	59	10364	28	4188	32	112.
0	0	320	0	0	0	0	0	0	0	6426	18	212	49	113.
30	0	800	6453	8066	1930	0	1930	2413	134	42620	117	1558	372	114.
27	0	1920	20927	10899	5720	0	5720	2979	157	95971	263	4126	1594	115.
26	3	1520	21330	14032	5560	640	6200	4079	215	2682	7	6193	7	116.
14	0	240	7367	30695	1040	0	1040	4333	87	2130	6	1034	6	117.
48	0	760	2364	3110	1140	0	1140	1500	214	46863	128	683	457	118.
23	3	48720	318475	6536	73360	7970	81330	1669	238	209258	573	80293	1037	119.
0	0	80	0	0	0	0	0	0	0	3722	10	205	7	120.
0	0	1280	0	0	0	0	0	0	0	44982	123	686	284	121.
0	0	320	0	0	0	0	0	0	0	35121	96	173	159	122.
0	0	520	0	0	0	0	0	0	0	26245	72	654	204	123.
7	10	4960	86087	17356	6430	8850	15280	3081	83	200662	550	12606	2674	124.
0	0	160	0	0	0	0	0	0	0	2743	8	62	12	125.
31	0	2400	25173	10488	7770	0	7770	3238	135	106615	292	6610	1160	126.
18	0	1120	31754	28351	5760	0	5760	5143	129	52975	145	5175	585	127.
6	0	640	6356	9931	400	0	400	625	42	5699	16	378	22	128.
0	0	480	0	0	0	0	0	0	0	5061	14	89	8	129.
28	0	3200	19527	6102	5450	0	5450	1703	90	119086	326	4543	907	130.
16	0	320	6101	19065	980	0	980	3063	128	17359	48	847	133	131.
8	19	13120	149358	11383	11880	28380	40260	3069	205	450020	1233	28571	11689	132.
0	0	15680	0	0	0	0	0	0	0	1483606	4065	5846	7354	133.
5	0	8000	123919	15489	6340	0	6340	793	29	109663	300	5831	509	134.
9	0	480	3873	8068	330	0	330	688	34	4052	11	279	51	135.
0	0	480	0	0	0	0	0	0	0	4110	11	262	30	136.
0	0	320	0	0	0	0	0	0	0	11585	32	115	25	137.
10	0	1600	17802	11126	1800	0	1800	1125	30	32714	90	1662	138	138.
29	0	800	14947	18683	4270	0	4270	5338	214	30289	83	4003	267	139.
0	0	1120	0	0	0	0	0	0	0	34458	94	562	172	140.
0	0	160	0	0	0	0	0	0	0	4528	12	68	5	141.

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.	SEC.
142.	Missouri Breaks	Nisku	Roosevelt	1994	10044	41.9	0.00	4	0	0	0	0
143.	Monarch Non Unit	Siluro/Ord.	Fallon	1958	8400	0.0	0.00	0	0	0	0	0
144.	Monarch Unit	Siluro/Ord.	Fallon	1958	8400	32.0	1.00	31	7	35	3	3
145.	Mondak West	Devonian	Richland	1979	10600	41.4	1.50	8	10	25	39	39
146.	Mondak West	Madison	Richland	1976	9200	30.0	1.30	100	4	60	6	6
147.	Mondak West	Siluro/Ord.	Richland	1976	12200	48.0	1.64	45	10	43	20	20
148.	Mustang	Bakken	Richland	1994	10565	44.0	0.00	0	0	0	0	0
149.	Mustang	Madison	Richland	1988	9200	33.7	0.00	0	0	0	0	0
150.	Mustang	Red River	Richland	1979	12500	47.0	1.41	17	12	0	7	7
151.	Neisser Creek	Red River	Sheridan	1982	10900	46.0	2.00	15	17	21	27	27
152.	Nohly	Nisku	Richland	1983	10700	38.0	1.30	15	11	39	71	71
153.	Nohly	Red River	Richland	1972	12900	46.0	1.43	27	10	40	29	29
154.	Nohly Area	Ratcliffe	Richland	1984	9444	32.0	1.23	17	10	57	28	28
155.	North Fork	Madison	Richland	1977	9500	35.0	1.37	18	3	70	56	56
156.	Otis Creek	Ratcliffe	Richland	1993	8900	35.0	0.00	0	0	0	0	0
157.	Outlook	Madison	Sheridan	1997	7505	45.3	0.00	0	14	8	0	0
158.	Outlook	Nisku	Sheridan	1958	9170	40.0	0.00	20	0	0	0	0
159.	Outlook, Southwest	Red River	Sheridan	1994	8886	0.0	0.00	10	0	0	0	0
160.	Outlook, West	Winnipegosis	Sheridan	1958	9100	39.0	1.12	16	8	30	41	41
161.	Oxbow	Red River	Roosevelt	1978	12600	47.0	1.50	18	12	45	33	33
162.	Oxbow Area	Nisku	Roosevelt	1993	10653	38.8	1.36	6	22	25	36	36
163.	Palomino	Nisku	Roosevelt	1980	7500	48.0	1.15	39	16	20	13	13
164.	Pennel	Siluro/Ord.	Fallon	1955	7000	31.0	1.10	38	3	30	63	63
165.	Pine	Red River	Fallon/ Wibaux	1952	8400	34.0	1.17	32	12	30	20	20
166.	Pondera	Madison/Sun River	Pondera	1927	2100	34.0	1.20	15	16	31	17	17
167.	Poplar, East	Heath	Roosevelt	1969	4900	38.0	1.10	8	11	50	33	33
168.	Poplar, East	Madison	Roosevelt	1952	5500	40.0	1.10	25	11	30	19	19
169.	Poplar, Northwest	Madison	Roosevelt	1952	6300	40.0	1.10	16	10	45	14	14
170.	Pronghorn	Red River	Sheridan	1983	10580	40.0	1.30	17	13	54	5	5
171.	Putnam	Bakken	Richland	1982	7100	0.0	0.00	0	0	0	0	0
172.	Putnam	Interlake/Red River	Richland	1969	11900	41.0	1.75	16	9	30	20	20
173.	Putnam	Madison	Richland	1978	9500	34.0	1.42	92	6	35	1	1
174.	Rabbit Hills	Sawtooth	Blaine	1972	4000	21.0	1.15	12	18	16	33	33
175.	Rabbit Hills, South	Bow Island/Sawtooth	Blaine	1996	4090	0.0	0.00	0	0	0	0	0
176.	Ragged Point	Tyler	Musselshell	1956	3600	32.0	1.11	13	14	32	25	25
177.	Rattler Butte	Tyler	Rosebud	1975	5300	35.0	1.10	25	12	60	60	60
178.	Rattlesnake Butte	Cat Creek/Amsden	Petroleum	1984	2732	27.7	1.10	26	21	70	18	18
179.	Raymond	Nisku	Sheridan	1972	7900	50.0	1.40	22	9	0	14	14
180.	Raymond	Red River	Sheridan	1972	10000	39.0	1.42	33	12	10	7	7
181.	Raymond	Winnipegosis	Sheridan	1972	9300	42.0	1.17	40	5	27	21	21
182.	Reagan	Madison	Glacier	1947	3700	38.0	1.10	11	12	30	48	48
183.	Red Bank	Madison	Roosevelt	1980	13000	31.0	2.00	16	14	11	5	5
184.	Red Creek Unit	Cut Bank/Madison	Glacier	1958	2600	31.0	1.08	20	19	30	24	24
185.	Red Water, East	Red River	Richland	1983	12025	47.0	1.40	20	11	40	15	15
186.	Refuge	Red River	Sheridan	1979	11300	44.0	1.69	13	5	30	28	28
187.	Reserve	Red River	Sheridan	1966	11100	39.0	1.30	18	6	30	31	31

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD			
0	0	160	0	0	0	0	0	0	0	8294	23	86	34	142
0	0	3040	0	0	0	0	0	0	0	208591	571	1796	1697	143
3	4	2720	29764	10942	840	1190	2030	746	24	36967	101	1748	282	144
39	0	320	993	3103	390	0	390	1219	152	21090	58	300	90	145
6	0	10880	103886	9548	5910	0	5910	543	5	60136	165	5596	314	146
20	0	3200	38828	12133	7840	0	7840	2450	54	149695	410	5571	2269	147
0	0	800	0	0	0	0	0	0	0	34972	96	133	99	148
0	0	160	0	0	0	0	0	0	0	4836	13	87	14	149
7	0	960	10775	11223	800	0	800	833	49	10058	28	756	44	150
27	0	320	2501	7815	680	0	680	2125	142	27195	75	500	180	151
71	0	800	4805	6006	3430	0	3430	4288	286	28847	79	3369	61	152
29	0	960	8437	8788	2420	0	2420	2521	93	55705	153	2119	301	153
28	0	1920	8852	4610	2460	0	2460	1281	75	116798	320	1864	596	154
56	0	960	881	917	490	0	490	510	28	9577	26	467	23	155
0	0	160	0	0	0	0	0	0	0	6297	17	55	26	156
0	0	40	0	0	0	0	0	0	0	4405	12	13	23	157
0	0	640	0	0	0	0	0	0	0	24012	66	201	250	158
0	0	160	0	0	0	0	0	0	0	5418	15	154	20	159
41	0	480	2979	6206	1210	0	1210	2521	158	27444	75	976	234	160
33	0	320	1966	6143	650	0	650	2031	113	13285	36	524	126	161
36	0	320	1807	5646	650	0	650	2031	339	23480	64	531	119	162
13	0	960	32329	33676	4070	0	4070	4240	109	98297	269	2757	1313	163
63	11	28960	162989	5628	102730	18000	120730	4169	110	1694087	4641	97981	22749	164
20	23	16480	293731	17823	58900	67500	126400	7670	240	729727	1999	116058	10342	165
17	0	15600	167014	10706	28210	0	28210	1808	121	164779	451	27618	592	166
33	0	480	1490	3104	490	0	490	1021	128	10204	28	384	106	167
19	0	18070	245327	13576	46410	0	46410	2568	103	81313	223	46029	381	168
14	0	5440	33763	6206	4720	0	4720	868	54	76476	210	4346	374	169
5	0	1280	7765	6066	350	0	350	273	16	4272	12	338	12	170
0	0	640	0	0	0	0	0	0	0	13319	36	102	27	171
20	0	5440	24309	4468	4910	0	4910	903	56	55589	152	4817	93	172
1	0	1600	31364	19602	280	0	280	175	2	25608	70	185	95	173
33	0	800	9792	12240	3220	0	3220	4025	335	118559	325	2163	1057	174
0	0	160	0	0	0	0	0	0	0	27688	76	95	215	175
25	10	1440	12456	8650	3060	1250	4310	2993	230	17150	47	4266	44	176
60	0	360	3047	8463	1820	0	1820	5056	202	70679	194	1432	388	177
18	0	320	3697	11553	650	0	650	2031	78	5873	16	633	17	178
14	0	640	7022	10971	980	0	980	1531	70	10169	28	948	32	179
7	0	960	18693	19471	1250	0	1250	1302	39	20910	57	1107	143	180
21	0	960	9294	9681	1980	0	1980	2063	52	30611	84	1794	186	181
48	14	2600	16943	6516	8170	2300	10470	4027	366	104753	287	9809	661	182
5	0	5120	39594	7733	2130	0	2130	416	26	37224	102	1824	306	183
24	2	1410	26942	19107	6440	540	6980	4950	248	41191	113	6862	118	184
15	0	320	2341	7315	360	0	360	1125	56	15653	43	299	61	185
28	0	640	1337	2089	380	0	380	594	46	19462	53	281	99	186
31	0	1600	7219	4511	2240	0	2240	1400	78	41360	113	2036	204	187

SUMMARY OF PRODUCING

LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVERY FACTOR %	
											PRIM.	SECD.
188.	Ridgelawn	Duperow	Richland	1984	11314	46.6	1.60	27	10	20	8	0
189.	Ridgelawn	Madison	Richland	1977	8900	35.0	1.18	54	3	50	15	0
190.	Ridgelawn	Red River	Richland	1980	12500	49.0	1.90	15	12	35	42	0
191.	Ridgelawn, North	Madison	Richland	1991	9787	36.0	0.00	0	0	0	0	0
192.	Riprap Coulee	Ratcliffe	Roosevelt	1975	8800	34.0	1.30	14	14	45	21	0
193.	Rocky Point	Red River	Roosevelt	1978	11800	49.0	1.80	19	14	47	19	0
194.	Royals	Dawson Bay	Dawson	1980	11700	43.0	1.93	46	5	32	19	0
195.	Rush Mountain	Winnipegosis/ Gunton	Sheridan	1968	12000	39.0	1.62	14	10	33	67	0
196.	Salt Lake	Ratcliffe	Sheridan	1992	6520	33.7	0.00	36	0	92	0	0
197.	Salt Lake	Red River/Gunton	Sheridan	1987	10554	34.7	1.30	13	10	25	21	0
198.	Sand Creek	Charles	Dawson	1995	7548	31.0	0.00	20	0	0	0	0
199.	Shotgun Creek	Ratcliffe	Roosevelt	1984	9234	0.0	0.00	20	0	0	0	0
200.	Sidney	Madison	Richland	1976	9000	34.0	1.30	60	4	50	6	0
201.	Sidney	Red River	Richland	1981	12500	41.0	1.70	30	11	45	8	0
202.	Sioux Pass	Siluro/Ord.	Richland	1973	12700	47.0	1.70	40	9	35	19	0
203.	Sioux Pass, Middle	Red River	Richland	1976	12600	45.0	1.40	17	16	25	9	0
204.	Sioux Pass, North	Madison	Richland	1974	12000	45.0	1.60	44	12	40	2	0
205.	Sioux Pass, North	Red River	Richland	1974	12000	45.0	1.60	44	12	40	7	0
206.	Soap Creek	Tensleep	Big Horn	1952	1900	20.0	1.05	20	15	35	19	0
207.	Soap Creek, East	Tensleep	Big Horn	1977	3400	17.0	1.02	15	15	35	22	0
209.	South Fork	Mission Canyon	Richland	1986	9100	29.8	1.50	6	7	51	47	0
210.	South Fork	Red River	Richland	1976	12400	46.0	1.00	41	11	0	1	0
211.	Spring Lake	Bakken	Richland	1982	10800	42.0	1.50	17	8	20	17	0
212.	Spring Lake	Dawson Bay	Richland	1995	10688	0.0	0.00	34	0	0	0	0
213.	Stensvad	Tyler	Musselshell	1958	5500	33.0	1.17	25	14	20	44	14
214.	Sumatra	Tyler	Rosebud	1949	4500	32.0	1.16	30	19	35	27	7
215.	Target	Madison	Roosevelt	1981	10500	34.5	1.20	16	8	35	8	0
216.	Target	Nisku	Roosevelt	1992	10503	0.0	0.00	0	0	0	0	0
217.	Three Buttes	Red River/Gunton	Richland	1978	12400	43.0	0.00	12	0	0	0	0
218.	Tule Creek	Nisku	Roosevelt	1960	7500	46.0	1.41	25	15	30	46	0
219.	Tule Creek, East	Nisku	Roosevelt	1964	7500	43.0	1.91	30	18	30	42	0
220.	Tule Creek, South	Duperow/Nisku	Roosevelt	1964	7600	43.0	1.40	8	12	30	55	0
221.	Utopia	Swift	Liberty	1977	2300	33.0	1.15	17	16	40	8	1
222.	Vaux	Interlake/Stonewall	Richland	1981	12100	45.0	0.00	0	0	25	0	0
223.	Vaux	Madison	Richland	1977	8800	34.0	1.20	40	4	43	15	0
224.	Vaux	Red River	Richland	1976	12400	48.0	1.60	24	14	45	9	0
225.	Volt	Charles	Roosevelt	1965	6000	46.0	1.20	12	18	40	6	0
226.	Volt	Nisku	Roosevelt	1964	7300	47.0	1.40	14	20	30	58	0
227.	Wakea	Nisku	Sheridan	1988	9906	41.0	1.40	15	13	32	14	0
228.	Wakea	Red River	Sheridan	1983	11133	42.1	1.57	6	14	31	54	0
229.	Wakea	Winnipegosis	Sheridan	1985	10179	43.6	1.42	12	14	30	52	0
230.	West Butte	Sunburst	Toole	1968	2300	40.0	1.10	10	24	23	16	0
231.	Weygand	Sawtooth	Blaine	1991	4200	0.0	0.00	6	0	0	0	0
232.	Whitlash	Swift	Liberty	1927	2600	38.0	1.13	15	16	20	14	0
233.	Willow Creek, North	Tyler	Musselshell	1970	4000	32.0	1.20	12	13	54	57	0
234.	Wills Creek, South	Red River	Fallon	1964	8700	33.0	1.20	12	18	35	35	0

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD			
8	0	1600	16757	10473	1270	0	1270	794	29	55735	153	1021	249	188.
15	0	4480	23858	5325	3670	0	3670	819	15	39861	109	3503	167	189.
42	0	1600	7644	4777	3190	0	3190	1994	133	36016	99	2852	338	190.
0	0	320	0	0	0	0	0	0	0	23705	65	220	104	191.
21	0	800	5147	6433	1060	0	1060	1325	95	20797	57	827	233	192.
19	0	640	3889	6076	750	0	750	1172	62	14275	39	589	161	193.
19	0	320	2012	6287	390	0	390	1219	27	6082	17	362	28	194.
57	0	320	1437	4490	960	0	960	3000	214	20071	55	782	178	195.
0	0	160	0	0	0	0	0	0	0	17853	49	218	130	196.
21	0	640	3724	5818	790	0	790	1234	95	22169	61	620	170	197.
0	0	160	0	0	0	0	0	0	0	5732	16	42	24	198.
0	0	800	0	0	0	0	0	0	0	44421	122	596	205	199.
6	0	7040	50415	7161	3160	0	3160	449	7	17977	49	3126	34	200.
8	0	640	5301	8282	440	0	440	688	23	6078	17	386	54	201.
19	0	2880	30755	10678	5780	0	5780	2007	50	164265	450	4298	1482	203.
9	0	1920	21705	11304	1960	0	1960	1021	60	23063	63	1750	210	204.
2	0	1920	29493	15360	690	0	690	359	8	24991	68	650	40	205.
7	0	4480	68817	15360	4710	0	4710	1051	24	94368	259	4208	502	206.
19	0	1280	18442	14407	3500	0	3500	2734	137	33172	91	2938	562	207.
22	0	120	1335	11125	290	0	290	2417	161	6370	17	209	81	208.
47	0	160	170	1062	80	0	80	500	83	4257	12	56	24	209.
1	0	960	33589	34988	300	0	300	313	8	7238	20	278	22	210.
17	0	640	3601	5626	620	0	620	969	57	31425	86	378	242	211.
0	0	320	0	0	0	0	0	0	0	19306	53	147	152	212.
44	14	960	17824	18566	7930	2500	10430	10865	435	16967	46	10301	129	213.
27	7	5520	136779	24778	37180	9540	46720	8464	282	117659	322	45913	807	214.
8	0	1760	9467	5378	800	0	800	455	28	10471	29	767	33	215.
0	0	320	0	0	0	0	0	0	0	19533	54	186	103	216.
0	0	640	0	0	0	0	0	0	0	13608	37	510	77	217.
46	0	1280	18487	14442	8530	0	8530	6664	267	19191	53	8430	100	218.
42	0	320	4913	15353	2070	0	2070	6469	216	2745	8	2055	15	219.
55	0	480	1787	3722	990	0	990	2063	258	7216	20	904	86	220.
8	1	960	10569	11009	809	71	880	917	54	16222	44	806	74	221.
0	0	960	0	0	0	0	0	0	0	18929	52	794	99	222.
15	0	3360	19811	5896	2930	0	2930	872	22	69175	190	2555	375	223.
9	0	2240	20071	8960	1880	0	1880	839	35	14456	40	1819	61	224.
6	0	160	1341	8381	80	0	80	500	42	3386	9	42	38	225.
58	0	800	8689	10861	5040	0	5040	6300	450	58133	159	3773	1267	226.
14	0	640	4703	7348	670	0	670	1047	70	31946	88	506	164	227.
54	0	960	2749	2863	1480	0	1480	1542	257	24339	67	1297	183	228.
52	0	320	2056	6425	1060	0	1060	3313	276	10322	28	1029	31	229.
16	0	160	2085	13031	340	0	340	2125	213	4126	11	324	16	230.
0	0	120	0	0	0	0	0	0	0	4789	13	355	15	231.
14	0	3120	41127	13181	5600	0	5600	1795	120	25757	71	5593	7	232.
57	0	160	742	4637	420	0	420	2625	219	3211	9	412	8	233.
35	0	640	5809	9076	2040	0	2040	3188	266	93479	256	1667	373	234.

SUMMARY OF PRODUCT

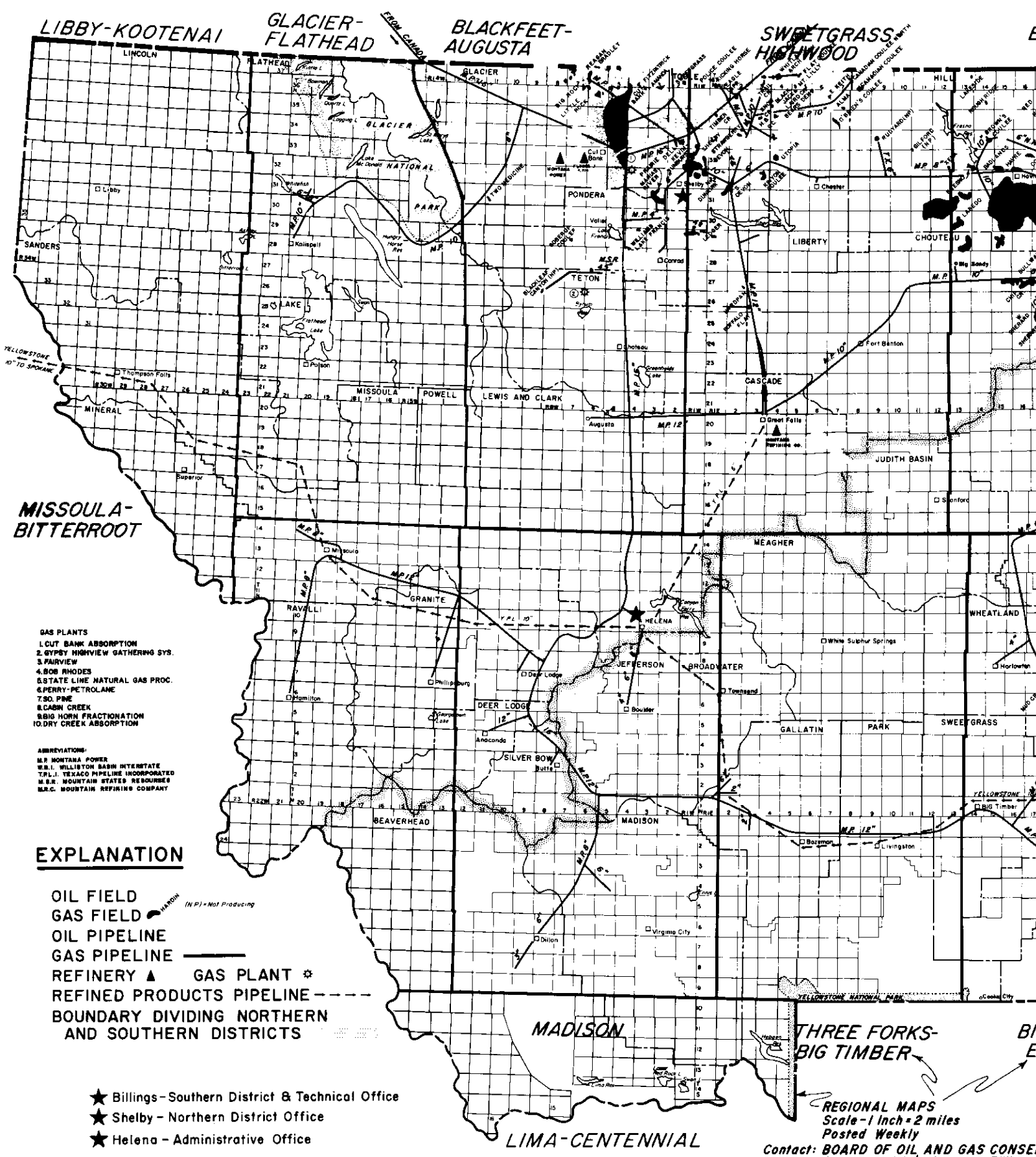
LINE NO.	PRODUCING FIELD	FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY API	F.V.F.	NET PAY FT.	POROSITY(%)	% WATER	RECOVER FACTO	
											PRIM.	SE
233.	Winnett Junction	Tyler	Musselshell	1973	2500	28.0	1.10	12	18	30		20
234.	Wolf Springs	Amsden	Yellowstone	1955	6200	30.0	1.07	11	6	23		64
235.	Wolf Springs, South	Amsden	Yellowstone	1984	6100	30.0	1.05	15	8	40		18
236.	Woodrow	Charles	Dawson	1952	9600	42.0	1.30	25	14	35		19
237.	Wrangler	Red River	Sheridan	1979	11200	30.0	1.00	6	10	0		33
238.	Marginal Small Fields											
239.	State Totals											

NOTE: Reservoir parameters and production figures are supplied by operators. Reservoir estimates are extrapolated from cor

PRODUCING OIL FIELDS — 1999

RECOVERY FACTOR %		PROV-DUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY						1999 PRODUCTION		CUMUL. PROD. 1-2000 (M BBLs)	RE-SERVES (M BBLs)	LINE NO.
PRIM.	SECND.		M BBLs	BBLs/AC	PRIM. (M BBLs)	SECOND. (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BPOD				
20	26	240	2559	10662	510	670	1180	4917	410	15582	43	1028	152	233	
64	0	2080	7664	3684	4870	0	4870	2341	213	10741	29	4850	20	234	
18	0	960	5107	5319	930	0	930	969	65	6754	19	907	23	235	
19	0	560	7603	13576	1470	0	1470	2625	105	10494	29	1317	153	236	
33	0	640	2979	4654	970	0	970	1516	253	21177	58	748	222	237	
										942902			31	238	
										15266561			132706	239	

Based on computer generated decline curves. Pools with incalculable or small reserves are not printed.



- GAS PLANTS**
- 1. CUT BANK ABSORPTION
 - 2. 6750Y HIGHVIEW GATHERING SYS.
 - 3. FAIRVIEW
 - 4. BOB RHODES
 - 5. STATE LINE NATURAL GAS PROC.
 - 6. PERRY-PETROLANE
 - 7. 30. PINE
 - 8. CABIN CREEK
 - 9. BIG HORN FRACTIONATION
 - 10. DRY CREEK ABSORPTION

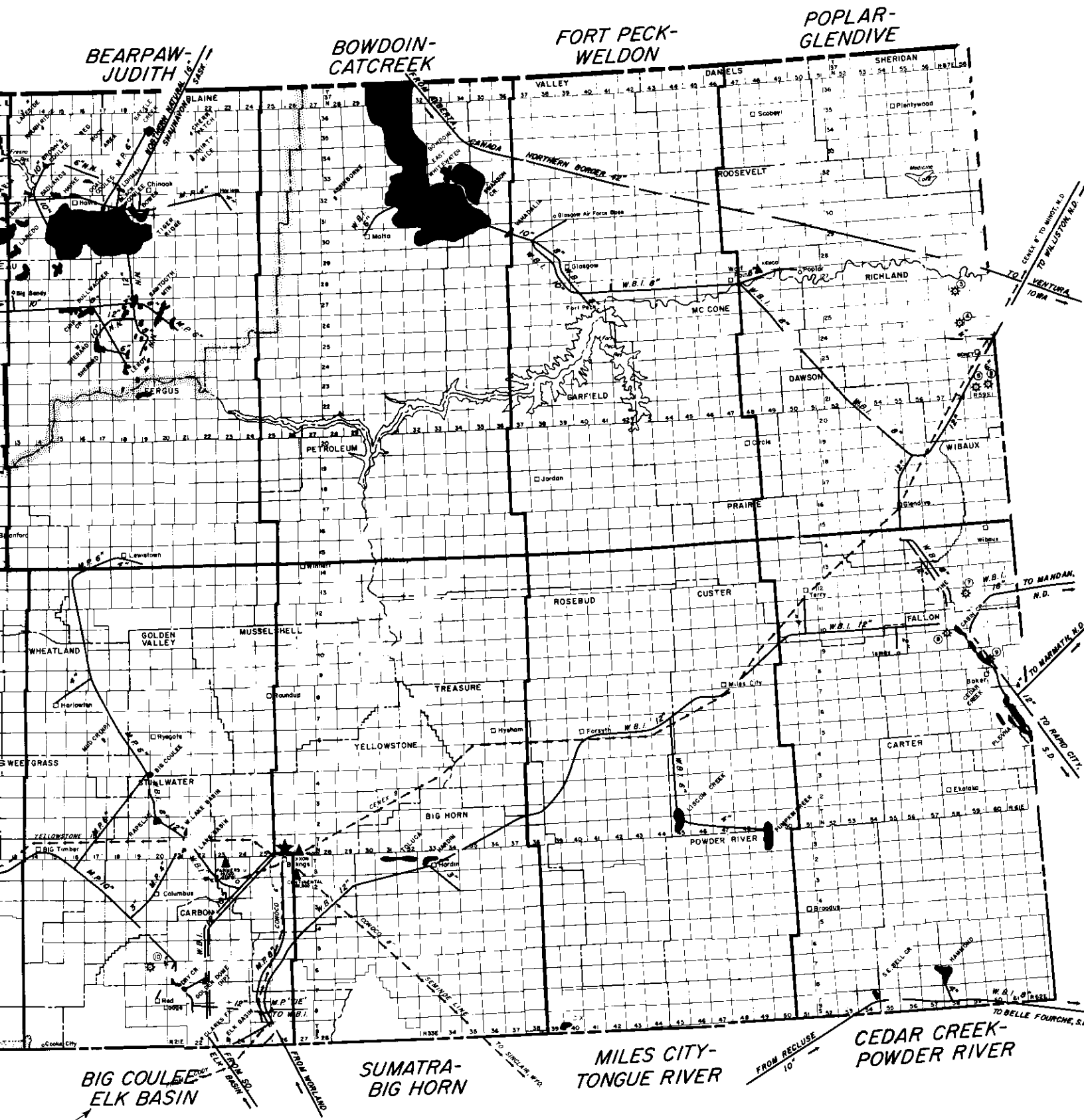
- ABBREVIATIONS:**
- M.P. MONTANA POWER
 - W.B.I. WILLISTON BASIN INTERSTATE
 - T.P.I. TEXACO PIPELINE INCORPORATED
 - M.S.R. MOUNTAIN STATES RESOURCES
 - M.R.C. MOUNTAIN REFINING COMPANY

EXPLANATION

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

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

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



MONTANA
OIL AND GAS FIELDS, PIPELINES AND REFINERIES
 1987

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

BOARD OF OIL AND GAS CONSERVATION

ERA	PERIOD	SOUTHWEST MONTANA (GENERALIZED)	CRAZY MOUNTAINS BASIN	CENTRAL MONTANA		BIG HORN BASIN	
CENOZOIC	TERTIARY	SIXMILE CREEK FM ROZEMA GP RENOVA FM SPHINX CGL	TONGUE RIVER MBR LEBO MBR TULLOCK MBR			TONGUE RIVER MBR LEBO MBR TULLOCK MBR	
	MESOZOIC	CRETACEOUS	UPPER ELK HORN MOUNTAINS VOLCANICS BEAVERHEAD CGL MONTANA UNDIVIDED LIVINGSTON GP EAGLE FM TELEGRAPH CK CODY SH FRONTIER FM MOWRY SH MUDDY SS THERMOPOLIS SH (RUSTY BED MBR) KOOTENAI FM	HELL CREEK FM LENNEP FM BEARPAW FM JUDITH RIVER FM CLAGGET FM EAGLE FM (VIRGELLE MBR) TELEGRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENHORN FM BELLE FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM	HELL CREEK FM FOX HILLS FM BEARPAW FM JUDITH RIVER FM CLAGGET FM EAGLE FM (VIRGELLE SS) TELEGRAPH CK FM NIORRARA FM CARLILE FM FRONTIER FM GREENHORN FM BELLE FOURCHE FM BIG ELK SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM (2nd CAT CREEK) (3rd CAT CREEK)		LANCE FM LENNEP FM MEETSETSE FM JUDITH RIVER FM PARKMAN SS CLAGGET FM EAGLE FM (VIRGELLE SS) TELEGRAPH CK FM CODY FM TORCHLIGHT SS FRONTIER FM PEAY SS MOWRY FM MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM (GREYBULL SS) KOOTENAI FM LAKOTA FM
LOWER COLORADO UNDIVIDED MORRISON FM SWIFT FM RIERDON FM PIPER FM			MORRISON FM SWIFT FM RIERDON FM PIPER FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM	• CAT CK, BROADVIEW, LITTLE BASIN • MUD CK • CAT CK, MASON L., RATTLESNAKE BUTTE • CAT CK, IVANHOE, RATTLESNAKE BUTTE • CAT CK, MASON L. • CAT CK, IVANHOE • BIG C. • CAT CK	• CAT CK, IVANHOE • BIG C. • CAT CK • SUMATRA, WOLF SPRINGS	MORRISON FM UPPER MBR LOWER MBR GYPSUM SPRINGS FM
JURASSIC		MORRISON FM SWIFT FM RIERDON FM PIPER FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM	MORRISON FM SWIFT FM RIERDON FM PIPER FM	• CAT CK, IVANHOE • BIG C. • CAT CK • SUMATRA, WOLF SPRINGS	MORRISON FM UPPER MBR LOWER MBR GYPSUM SPRINGS FM	
TRIASSIC		THAYNES FM WOODSIDE FM DINWOODY FM	CHUGWATER FM DINWOODY FM	CHUGWATER FM DINWOODY FM		CHUGWATER FM DINWOODY FM	
PALEOZOIC	PERMIAN	PHOSPHORIA FM PARK CITY MBR	PHOSPHORIA FM	PHOSPHORIA FM		PHOSPHORIA FM	• ELK BASIN
	PENNSYLVANIAN	QUADRANT FM AMSDEN GP BIG SNOWY GP MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM	QUADRANT FM AMSDEN GP BIG SNOWY GP CHARLES FM MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM BIRDBEAR FM?	TENSLEEP FM AMSDEN GP (ALASKA BENCH) TYLER FM HEATH FM OTTER FM KIBBEY FM CHARLES FM MISSION CANYON LS LODGEPOLE LS BAKKEN FM THREE FORKS FM BIRDBEAR FM?	• MUD CK • BIGWALL, CAT CK, DELPHIA, GAGE, HAWK CK • HIBBARD, IVANHOE, MASON LAKE, POLE CK, SUMATRA, WEED CK • ADE HIGH, BASCOM, BIG GULLY, BIG & LITTLE WALL, BREED CK, DEVILS BASIN, GREBE, GUMBO RIDGE, HEATH, DEVILS BASIN & POCKET SUMATRA • RAGGED POINT • HIAWATHA, HIGH FIVE, HOWARD C., INJUM CK, IVANHOE, JIM C., KEG C., KELLY, KINCHELOE, MELSTONE, MUSSEL SHELL, RAGGED PT, RATTLER BUTTE, ROSEBUD, STENSVAAD, STUDBORRE, SUMATRA, TINDER BOX, TRIPPY BUTTES, WAGON BOX, WINNETT JCT	TENSLEEP FM AMSDEN GP DARWIN SS	• ELK BASIN, NW ELK BASIN, FRANNIE • FLK BASIN
	MISSISSIPPIAN	MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM	CHARLES FM MISSION CANYON LS LODGEPOLE LS SAPPINGTON MBR THREE FORKS FM BIRDBEAR FM?	CHARLES FM MISSION CANYON LS LODGEPOLE LS BAKKEN FM THREE FORKS FM BIRDBEAR FM?		MADISON GROUP THREE FORKS FM JEFFERSON FM	• ELK BASIN, NW ELK BASIN, FRANNIE
	DEVONIAN	JEFFERSON FM MAYWOOD FM	JEFFERSON FM MAYWOOD FM	JEFFERSON FM MAYWOOD FM		JEFFERSON FM MAYWOOD FM BEARTOOTH BUTTE FM	• ELK BASIN
	SILURIAN						
	ORDOVICIAN	BIG HORN FM	BIG HORN FM	RED RIVER FM WINNIPEG FM		LEIGH DOL BIG HORN FM LANDER MBR	• ELK BASIN
CAMBRIAN	RED LION 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 HANG PILGRIM FM GROS VENTRE GP FLATHEAD SS		
	PRECAMBRIAN	BELT SUPERGROUP	BELT SUPERGROUP	BELT SUPERGROUP		PRE-BELT ROCKS	
PRECAMBRIAN	ARCHEAN	PRE-BELT METAMORPHIC AND IGNEOUS ROCKS					
		SOUTHWEST MONTANA (GENERALIZED)	CRAZY MOUNTAINS BASIN	CENTRAL MONTANA		BIG HORN BASIN	

GENERALIZED STRATIGRAPHIC CORRELATION

SHOWING PRODUCING FORMATIONS*

	SOUTH CENTRAL MONTANA	NORTHERN POWDER RIVER BASIN	WILLISTON BASIN
		WASATCH FM TONGUE RIVER MBR LEBO MBR TULLOCK MBR	FLAXVILLE FM TONGUE RIVER MBR LEBO MBR TULLOCK MBR
	HELL CREEK FM FOX HILLS FM BEARPAW FM JUDITH RIVER FM CLAGGET FM FAGLE FM (VIRGELLE SS) TELEGRAPH CK FM NIOBRARA FM CARLILE FM GREENHORN FM BELLE FOURCHE FM BIG ELK SS MOWRY FM	HELL CREEK FM FOX HILLS FM BEARPAW FM JUDITH RIVER FM (PARKMAN SS) CLAGGET FM EAGLE FM (SHANNON SS) TELEGRAPH CK FM NIOBRARA FM CARLILE FM GREENHORN FM BELLE FOURCHE FM MOWRY FM	HELL CREEK FM FOX HILLS FM BEARPAW FM JUDITH RIVER FM CLAGGET FM EAGLE FM TELEGRAPH CK FM (1ST WHITE SPK) NIOBRARA FM CARLILE FM GREENHORN FM BELLE FOURCHE FM MOWRY FM
	MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM GREYBULL SS KOOTENAI FM LAKOTA FM	MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM FUSON FM LAKOTA FM	MUDDY SS SKULL CK SH DAKOTA SILT DAKOTA FM KOOTENAI FM (FUSON) LAKOTA FM
	MORRISON FM SWIFT FM RIFERDON FM PIPER FM	MORRISON FM SUNDANCE FM UPPER MBR SUNDANCE FM LOWER MBR GYPSUM SPRINGS FM	MORRISON FM SWIFT FM RIFERDON FM PIPER FM BOWERS MBR HILKINSON MBR TAMMICK MBR NEISSON FM PICARD MBR DOCKERS
	CHUGWATER FM DINWOODY FM	SPEARFISH FM	SPEARFISH FM PINE SALT
	PHOSPHORIA FM	PHOSPHORIA MINNEKAHTA FM OPECHE FM	MINNEKAHTA FM OPECHE FM
	TENSLEEP FM AMSDEN FM	TENSLEEP FM AMSDEN FM	MINNELUSA FM TYLER FM
	CHARLES FM MISSION CANYON LS LODGEPOLE LS	MADISON LS	CHARLES FM MISSION CANYON LS LODGEPOLE LS BAKKEN FM
	THREE FORKS FM	THREE FORKS FM	THREE FORKS FM
	JEFFERSON FM	JEFFERSON FM	BIRDBEAR (NISKU) FM DUPEROW FM
	BEARTOOTH BUTTE FM	INTERLAKE FM	SOURIS RIVER FM DAWSON BAY FM PRAIRIE EVAPORITE WINNIPEGOSIS FM ASHERN
	LEIGH DOL BIG HORN FM LANDER MBR	STONY MTN FM RED RIVER FM WINNIPEG FM	INTERLAKE FM STONY MTN FM GUNTON MBR STOUTGTON MBR RED RIVER FM WINNIPEG FM
	GROVE CK FM GALLATIN LS SNOWY RANGE PILGRIM FM GROS VENTRE GP FLATHEAD SS	GROVE CK FM DEADWOOD FM GROS VENTRE GP FLATHEAD SS	DEADWOOD FM
	PRE-BELT ROCKS	PRE-BELT ROCKS	PRE-BELT ROCKS
SOUTH CENTRAL MONTANA	SOUTH CENTRAL MONTANA	NORTHERN POWDER RIVER BASIN	WILLISTON BASIN

*SOME FIELDS OMITTED DUE TO SPACE LIMITATIONS

STRATIGRAPHIC CORRELATION CHART

PRODUCING FORMATIONS* • OIL ✱ GAS

WILLISTON BASIN	NORTH CENTRAL MONTANA	SWEETGRASS ARCH
<p>FLAXVILLE FM</p> <p>FORK UNION FM</p> <p>TONGUE RIVER MBR LEBO MBR TULLOCK MBR</p> <p>HELL CREEK FM</p> <p>FOX HILLS FM</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>CLAGGET FM</p> <p>EAGLE FM</p> <p>TELEGRAPH CK FM (1ST WHITE SPK)</p> <p>NIORARA FM</p> <p>CARLILE FM</p> <p>GREENHORN FM</p> <p>BELLE FOURCHE FM</p> <p>MOWRY FM</p> <p>MUDDY SS</p> <p>SKULL CK SH</p> <p>DAKOTA SILT</p> <p>DAKOTA FM</p> <p>KOOTENAI FM (FUSON)</p> <p>LAKOTA FM</p>	<p>FLAXVILLE FM</p> <p>HELL CREEK FM</p> <p>FOX HILLS FM</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>CLAGGET FM</p> <p>EAGLE FM</p> <p>TELEGRAPH CK FM (1ST WHITE SPK)</p> <p>NIORARA FM</p> <p>CARLILE FM (BOWDOIN SS)</p> <p>GREENHORN FM (PHILIPS SS)</p> <p>BELLE FOURCHE FM (FISH SCALE SS)</p> <p>MOWRY FM</p> <p>MUDDY SS</p> <p>SKULL CK SH</p> <p>DAKOTA SILT</p> <p>DAKOTA FM</p> <p>KOOTENAI FM</p>	<p>WILLOW CK FM</p> <p>ST. MARY RIVER FM</p> <p>HORSETHIEF SS</p> <p>BEARPAW FM</p> <p>JUDITH RIVER FM</p> <p>CLAGGET FM</p> <p>EAGLE SS</p> <p>VIRESSE SS</p> <p>TELEGRAPH CK FM</p> <p>KEVIN SH MBR</p> <p>FERGIS MBR</p> <p>CONE (2ND WHITE SPK) (GREENHORN)</p> <p>FLOWERREE MBR</p> <p>(FISH SCALE SS)</p> <p>BOOTLEGGER MBR</p> <p>(RED SPK)</p> <p>VAUGHN</p> <p>BOW ISLAND</p> <p>TAFT HILL</p> <p>FLOOD (DAKOTA) (BURWASH)</p> <p>KOOTENAI FM</p> <p>(MOUTON) (SUNBURST)</p> <p>(LANDER) (CUT BANK)</p>
<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>SPEARFISH FM</p> <p>PINE SALT</p> <p>MINNEKAHTA FM</p> <p>OPECHE FM</p> <p>MINNELUSA FM</p> <p>TYLER FM</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p>
<p>HEATH FM</p> <p>OTTER FM</p> <p>KIBBY FM</p> <p>CHARLES FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>BAKKEN FM</p> <p>THREE FORKS FM</p> <p>BIRDBEAR (NISKU) FM</p> <p>DUPEROW FM</p> <p>SOURIS RIVER FM</p> <p>DAWSON BAY FM</p> <p>PRAIRIE (VAPORITE)</p> <p>WINNIEGOSIS FM</p> <p>ASHERN</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>CHARLES FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>BAKKEN FM</p> <p>THREE FORKS FM</p> <p>POTLATCH ANHY</p> <p>BIRDBEAR (NISKU) FM</p> <p>DUPEROW FM</p> <p>SOURIS RIVER FM</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>CHARLES FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>BAKKEN FM</p> <p>THREE FORKS FM</p> <p>POTLATCH ANHY</p> <p>BIRDBEAR (NISKU) FM</p> <p>DUPEROW FM</p> <p>SOURIS RIVER FM</p>
<p>INTERLAKE FM</p> <p>STONEWALL</p> <p>STONY MTN</p> <p>QUINTON MBR</p> <p>STOUTGTON MBR</p> <p>RED RIVER FM</p> <p>WINNIEG FM</p> <p>DEADWOOD FM</p>	<p>CHARLES FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>BAKKEN FM</p> <p>THREE FORKS FM</p> <p>POTLATCH ANHY</p> <p>BIRDBEAR (NISKU) FM</p> <p>DUPEROW FM</p> <p>SOURIS RIVER FM</p> <p>RED RIVER FM</p> <p>WINNIEG FM</p> <p>EMERSON FM</p> <p>(ATHEAD SS)</p>	<p>MORRISON FM</p> <p>SWIFT FM</p> <p>RIERDON FM</p> <p>PIPER FM</p> <p>BOWES MBR</p> <p>PIREACK MBR</p> <p>TAMPCOCK MBR</p> <p>NESSON FM</p> <p>RICARD MBR</p> <p>HOG MBR</p> <p>CHARLES FM</p> <p>MISSION CANYON LS</p> <p>LODGEPOLE LS</p> <p>BAKKEN FM</p> <p>THREE FORKS FM</p> <p>POTLATCH ANHY</p> <p>BIRDBEAR (NISKU) FM</p> <p>DUPEROW FM</p> <p>SOURIS RIVER FM</p> <p>RED RIVER FM</p> <p>PIRGRI M FM</p> <p>PARK SH</p> <p>MEAGHER LS</p> <p>WOLSEY SH</p> <p>FLATHEAD SS</p>
<p>PRE-BELT ROCKS</p> <p>WILLISTON BASIN</p>	<p>PRE-BELT ROCKS</p> <p>NORTH CENTRAL MONTANA</p>	<p>PRE-BELT ROCKS</p> <p>SWEETGRASS ARCH</p>

TRUNCATED DUE TO SPACE LIMITATIONS

		SWEETGRASS ARCH		NORTHERN DISTURBED BELT		PERIOD	ERA
						TERTIARY	CENOZOIC
		WILLOW CK FM ST. MARY RIVER FM HORSETHIEF SS BEARPAW FM		WILLOW CK FM ST. MARY RIVER FM HORSETHIEF SS BEARPAW FM MEDICINE FM		UPPER CRETACEOUS	MESOZOIC
<p>32 BROWN'S C. & E., BULLWACKER, COAL MINE C., LEROY, RED ROCK, SAWTOOTH MTN., TIGER RIDGE, TWO FORKS</p> <p>32 BADLANDS, BATTLE CK., BLACK BUTTE, BLACK C., BOWES, BROWN'S C. & E., BULLWACKER, CHAIN LAKES, CHIP CK., COAL C., COAL MINE C., FRESNO HAVRE, HIGHLINE, LAREDO, LEROY, L'OHMAN, RED ROCK, RUDYARD, SAWTOOTH MTN., SHERARD, TIGER RIDGE, TWO FORKS</p> <p>32 ASHFIELD, BOWDOIN, LORING, E & W LORING, SWANSON CK., VANDALIA, WHITEWATER & E</p> <p>32 ASHFIELD, BOWDOIN, COAL MINE C., GORMAN C., LORING & E., SPRING C., SWANSON CK., VANDALIA, WHITEWATER & E., WILD HORSE</p>	<p>MONTANA GP. JUDITH RIVER FM TWO MEDICINE FM VIRGELLE SS TELEGRAPH CK FM KEVIN SH MBR FERDIG MBR CONE (2ND WHITE SPK) (GREENHORN) FLOWEREE MBR (FISH SCALE SS) BOOTLEGGER MBR VAUGHN MBR BOW ISLAND TAFT HILL FLOOD (DAKOTA) (BURWASH) KOOTENAI FM (MOUTON) (SUNBURST) (LANDER) (CUT BANK)</p>	<p>MONTANA GP. JUDITH RIVER FM TWO MEDICINE FM VIRGELLE SS TELEGRAPH CK FM KEVIN SH MBR FERDIG MBR CONE (2ND WHITE SPK) (GREENHORN) FLOWEREE MBR VAUGHN MBR TAFT HILL MBR FLOOD MBR KOOTENAI FM MT. PABLO FM (CUT BANK)</p>	<p>• EAST GLACIER</p>				
		MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM	<p>• BLACKJACK, F. KEITH, MIDDLE BUTTE, O'BRIEN'S C., SAGE CK • ALMA, ANTELOPE C., BIG ROCK, LITTLE ROCK • 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, MINER'S C., O'BRIEN'S C., OLD SHELBY, POLICE C., PRAIRIE DELL, SNOOSE C., SOBER UP C., TIGER, TRAIL CK., WHITLASH, WILLIAMS, WILLOW RIDGE • S. CONRAD • 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 • BRADY, KEVIN-SUNBURST, STRAWBERRY CK., WILLOW RIDGE • 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. • BLACKFOOT & E., BORDER-RED C., CUT BANK, GRABEN C., RED CK</p>	<p>MONTANA GP. MORRISON FM VAUGHN MBR TAFT HILL MBR FLOOD MBR KOOTENAI FM MT. PABLO FM (CUT BANK)</p>		LOWER JURASSIC	
						TRIASSIC	
						PERMIAN	
						PENNSYLVANIAN	
						MISSISSIPPIAN	
<p>• BOWES, RABBIT HILLS & NE & SW THIRTY MILE</p> <p>• CANADIAN C., E. CHINOOK, N. GILDFORD, RUDYARD</p>	<p>ELLIS GP. MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM</p>	<p>• BRADY • ARCH APEX, BANNATYNE, BEARS DEN, FLAT C., FRED & GEORGE CK., GRANDVIEW, HORSE CK., LAIRD CK., PRICHARD CK., UTOPIA, WHITLASH & W. • AMANDA, EAGLE SPGS., ETHRIDGE, SW KEVIN, OLD SHELBY, PRAIRIE DELL & W., WEST BUTTE • GYPSY B., HIGHVIEW, KEVIN-SUNBURST • CANADIAN C., FLAT C., KEITH, KICKING HORSE, MINER'S C., UTOPIA</p>	<p>ELLIS GP. MORRISON FM SWIFT FM RIERDON FM SAWTOOTH FM</p>				
						DEVONIAN	PALAEZOIC
						SILURIAN	
						ORDOVICIAN	
						CAMBRIAN	
						PROTEROZOIC	
						ARCHEAN	PRECAMBRIAN
		SWEETGRASS ARCH		NORTHERN DISTURBED BELT			