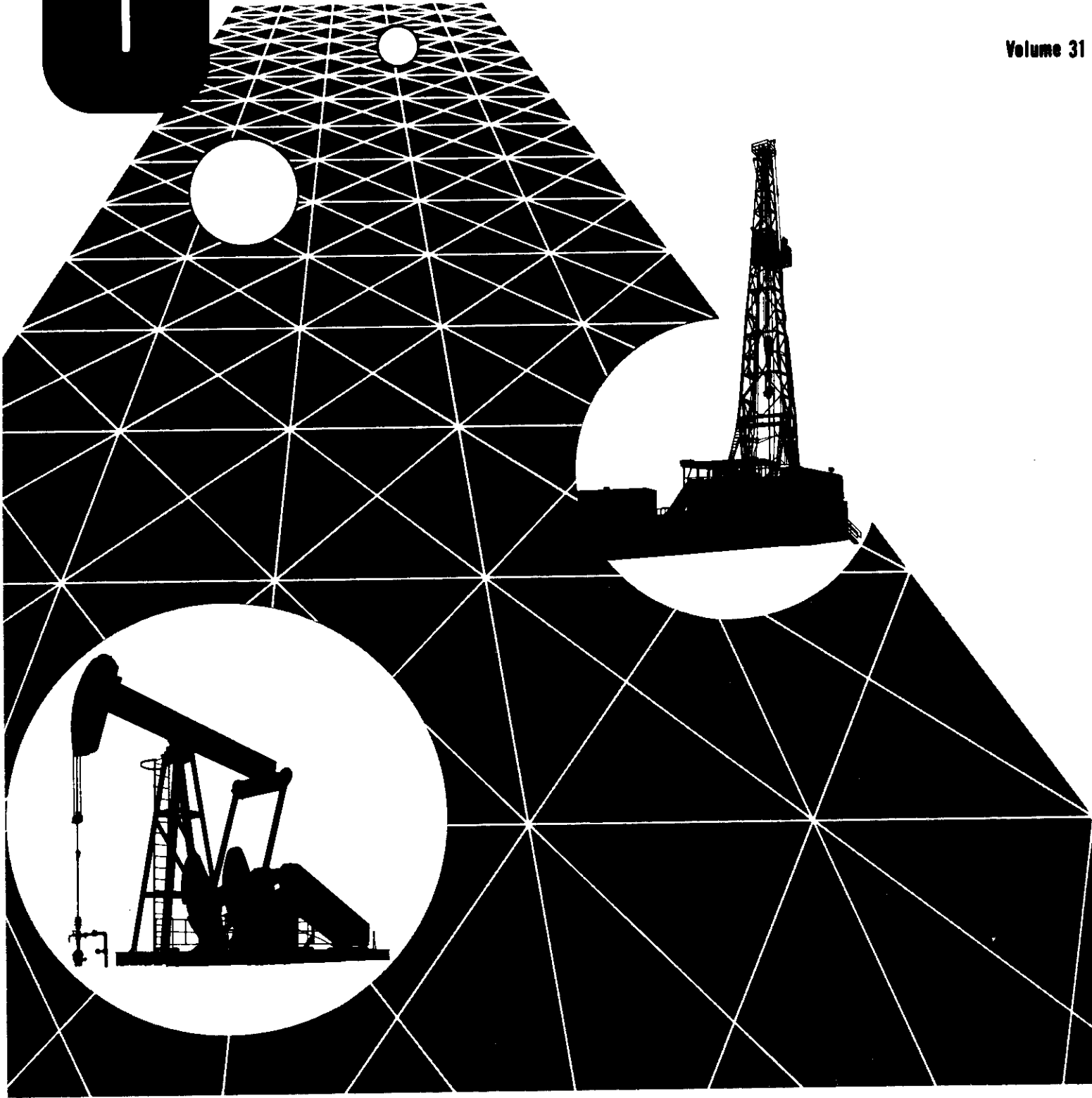


MONTANA

OIL & GAS

Annual
Review
1987

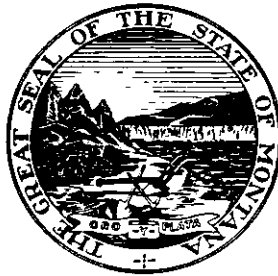
Volume 31



DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Ted Schwinden, Governor



ANNUAL REVIEW FOR THE YEAR 1987
Relating to
OIL AND GAS
Volume 31

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The data presented in this report was compiled by Richard Jacobson, Statistician in the Billings office of the Montana Board of Oil and Gas Conservation, and Larry Syth and Brenda Elwell, Statistical Technicians in the Helena office.

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Annual Review for the Year 1987 Volume 31 ACTIVITY REVIEW--MONTANA 1987

Mainly due to natural depletion, Montana's oil production continues to decline. A total of 25.1 million barrels of oil was produced this year as compared to 27.2 million barrels for 1986. Natural and associated gas withdrawals also decreased in 1987 to 47.9 billion cubic feet from 48.25 billion cubic feet produced in 1986. Because of the increase of the average price per barrel of oil, however, the gross value of 1987 oil production at \$417,282,850 exceeded the comparable value of oil produced in 1986 which was \$367,322,590. The average price per barrel of oil in 1987 was \$16.62; last year's average price was \$13.51/bbl.

There are still 187 million barrels of proven oil reserves in Montana and also areas throughout the state that merit drilling and exploration. The rise in the average price of crude in 1987 is encouraging; however, a continued stabilizing of the oil industry's economy is needed to support the pursuit and development of Montana's remaining hydrocarbon producing potential.

There were 100 oil exploration and 13 geophysical exploration companies active in the state during the year. A total of 348 wells were drilled, 57 less than in 1986. Drilling occurred in 31 of Montana's 56 counties with the most active area of drilling continuing to be along the Sweetgrass Arch of northwest Montana. A total of 200 development wells resulted in 86 oil and 75 gas producers. Of the 127 wildcats drilled, 7 were completed as oil wells, 9 as gas wells, and 11 wells were temporarily abandoned. Twenty-one service wells were also drilled during the year.

The Board is continuing to negotiate with EPA to take primacy of the Underground Injection Control (UIC) program for Class II (oil and gas) wells.

Well samples, including core chips, from more than 11,620 wells are now on file in the Billings office. As received, all samples are boxed, catalogued by well location, and assigned a filing number. Full cores are stored at the USGS Core Library in Arvada, Colorado.

A total of 57 applications for determination to quality for maximum lawful price as prescribed by the Natural Gas Policy Act, were received and processed during the year.

The Board also issued 57 Board Orders in 1987. The greater portion of which pertained exceptions to spacing and drilling rules, establishment of field delineations and spacing rules, and the pooling of interests.

**1987
SUMMARY OF YEAR ACTIVITIES**

OIL

	BBLs	BBLs OF OIL PER DAY
Oil Produced	25,104,049	68,778
Oil Imported From:		
Canada	24,396,425	
Wyoming	<u>13,757,603</u>	
Total	38,154,028	104,532
Oil Exported	19,800,000	54,247

GAS

	MCF	MCF/DAY
Gas Withdrawals:		
Natural	36,556,084	
Associated	<u>11,289,227</u>	
Total	47,845,311	131,083
Gas Imported From:		
Canada	6,174,045	
North Dakota	35,090,611	
Wyoming	<u>6,882,474</u>	
Total	48,147,130	131,910
Gas Exported To:		
Canada	39,879	
North Dakota	435,161	
South Dakota	5,216,097	
Wyoming	18,794,576	
Midwest	<u>10,557,306</u>	
Total	35,043,019	96,008

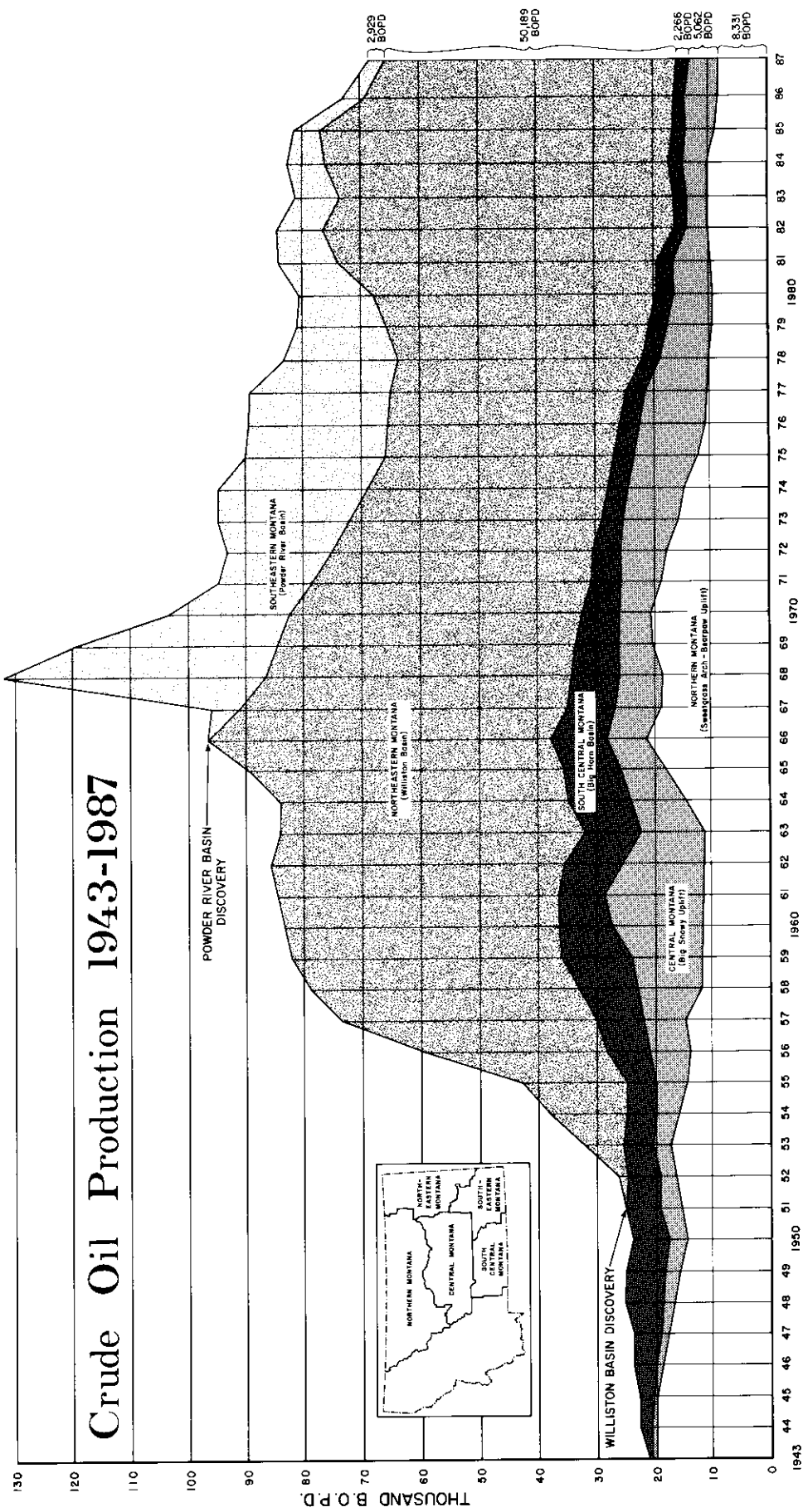
FIVE YEAR SUMMARY

	1983	1984	1985	1986	1987
PRODUCTION IN BARRELS					
Northern Montana	3,682,130	3,708,185	3,419,300	3,220,769	3,040,941
South Central	790,150	829,090	838,817	722,118	827,229
Central	1,467,855	1,709,653	1,868,780	2,387,266	1,847,551
Williston Basin	20,877,527	21,449,415	21,979,087	19,520,103	18,319,149
Powder River Basin	2,847,618	2,383,476	1,744,433	1,314,374	1,069,179
TOTAL	<u>29,665,280</u>	<u>30,079,819</u>	<u>29,850,417</u>	<u>27,164,630</u>	<u>25,104,049</u>
NUMBER OF PRODUCING WELLS					
Northern Montana	2,693	2,610	2,803	3,017	2,850
South Central	150	144	141	80	130
Central	287	294	417	453	363
Williston Basin	1,446	1,577	1,540	1,509	1,430
Powder River Basin	222	214	216	184	112
TOTAL	<u>4,798</u>	<u>4,839</u>	<u>5,117</u>	<u>5,243</u>	<u>4,885</u>
AVERAGE DAILY PRODUCTION/WELL					
Northern Montana	3.7	3.9	3.3	2.9	2.9
South Central	14.4	15.8	16.3	24.7	17.4
Central	14.0	15.9	12.3	14.4	13.9
Williston Basin	39.6	37.9	39.1	35.4	35.1
Powder River Basin	35.1	30.4	22.1	19.5	26.2
STATE AVERAGE	<u>16.9</u>	<u>17.0</u>	<u>16.0</u>	<u>14.2</u>	<u>14.1</u>
DEVELOPMENT WELLS DRILLED					
Oil Wells	160	327	227	90	86
Gas Wells	55	99	84	81	75
Dry Holes	88	87	90	69	39
Service Wells	10	20	18	4	21
TOTAL	<u>313</u>	<u>533</u>	<u>419</u>	<u>244</u>	<u>221</u>
EXPLORATORY WELLS DRILLED					
Oil Wells	25	33	16	11	7
Gas Wells	16	21	2	10	9
Dry Holes	156	189	192	130	100
Temporary Abandoned	23	25	11	10	11
TOTAL	<u>220</u>	<u>268</u>	<u>221</u>	<u>161</u>	<u>127</u>
TOTAL WELLS DRILLED	533	801	640	405	348
TOTAL FOOTAGE DRILLED	2,529,666	3,831,730	3,076,290	1,648,519	1,526,389
AVERAGE FOOTAGE DRILLED	4,746	4,783	4,806	4,070	4,386

SUMMARY OF DRILLING BY COUNTIES—1987

County	Development		Wildcat		Service	Temp. Aband.	Total Wells	Footage Drilled	Average Depth
	Oil	Gas	Oil	Gas					
Beaverhead				2			23,711	11,855	
Big Horn		3					16,963	3,392	
Blaine		11		2			34,709	2,169	
Carbon	4	3		1			50,681	5,631	
Cascade				8			15,550	1,943	
Chouteau				5	1		15,745	1,968	
Dawson	5				1		55,686	9,281	
Fallon	23			1	6		281,027	8,515	
Fergus				3			12,338	4,112	
Gallitan				1			14,040	14,040	
Glacier	5	1			14	4	75,566	3,148	
Hill		7		5			29,326	1,832	
Liberty				1			5,842	2,921	
Madison							9,645	4,822	
Musselshell	3			2			62,163	4,144	
Park				12			5,368	5,368	
Petroleum	1			1			11,215	3,738	
Pondera		6		2			8,605	860	
Powder River		3		5			33,715	6,743	
Powell				2			17,020	8,510	
Richland	9			2			178,503	11,900	
Roosevelt				6			66,192	8,274	
Rosebud	1			9			49,330	4,484	
Sheridan	4			8	1		199,374	9,968	
Stillwater		4		2			21,160	2,116	
Sweet Grass		1		2			12,949	3,237	
Teton				3			12,250	2,450	
Toole	29	39		7	2		146,639	1,647	
Valley				5	2		18,905	6,301	
Wibaux				3			10,250	10,250	
Yellowstone	2			5			31,922	2,902	
TOTALS	86	75	7	100	21	11	1,526,389	4,386	

Crude Oil Production 1943-1987



GAS PRODUCTION DATA—1987

NATURAL GAS

Field	County	Producing Formation	Produced MCF
Alma	Liberty	Bow Island	12,339
Amanda	Toole	Swift, Bow Island, Sunburst	247,877
Arch Apex	Toole	Bow Island, Sunburst, Swift	262,264
Badlands	Hill	Eagle	397,948
Battle Creek	Blaine	Eagle	3,110,847
Bears Den	Liberty	Madison, Bow Island, Swift	19,215
Bell Creek, Southeast	Powder River	Muddy	37,649
Big Coulee	Golden Valley, Stillwater	Lakota, Morrison, Cat Creek	228,106
Big Rock	Glacier	Blackleaf, Bow Island, Madison, Colorado	581,772
Bills Coulee	Teton	Sunburst, Moulton, Kootenai, Dakota	120,543
Black Butte	Hill	Eagle	182,631
Black Coulee	Blaine	Eagle	97,353
Blackfoot	Glacier	Dakota	98,229
Blackjack	Liberty	Second White Specks, Sunburst, Blackleaf, Bow Island	114,940
Blackleaf Canyon	Teton	Sun River	117,801
Border	Toole	Sunburst, Moulton	5,305
Bowdoin and Area	Phillips, Valley	Bowdoin, Phillips, Carlile-Greenhorn	2,713,761
Bowes	Blaine	Eagle	321,589
Bradley	Glacier	Dakota	3,344
Broadview	Golden Valley	Frontier	135,137
Browns Coulee, East	Hill	Eagle, Judith River	82,999
Buffalo Flats	Chouteau	Bow Island	11,497
Bullwacker and Area	Blaine, Chouteau	Eagle, Judith River	810,954
Camp Creek	Chouteau	Eagle	11,487
Canadian Coulee and Area	Hill	Sawtooth	489
Canadian Coulee, North	Hill, Liberty	Sawtooth	4,897
Cedar Creek	Fallon	Judith River, Eagle	135,071
Chain Lakes	Hill	Eagle	5,403
Charlie Creek, North	Richland	Red River	37,662
Clarks Fork	Carbon	Greybull	21,372
Coal Coulee	Hill	Eagle	445
Cut Bank	Glacier, Toole	Cut Bank, Blackleaf, Moulton, Sunburst, Bow Island, Swift, Madison, Dakota	3,051,824
Devon	Toole	Bow Island	291,244
Devon, East	Toole	Bow Island	1,873
Devon, South	Toole	Bow Island	22,727
Dry Creek	Carbon	Frontier, Judith River, Greybull, Eagle, Virgelle-Eagle	624,479
Dry Creek, Middle	Carbon	Frontier	37,241
Dry Creek (Shallow Gas)	Carbon	Virgelle	47,968
Dry Creek, West	Carbon	Greybull, Frontier	1,559
Dry Fork	Pondera	Bow Island	76,405
Dunkirk	Toole	Dakota, Bow Island	166,542
Dunkirk, North	Toole	Bow Island, Dakota, Kootenai, Swift	219,243
Dutch John Coulee	Toole	Sunburst	12,972
Eagle Springs	Toole	Bow Island, Sunburst, Swift	39,978
Ethridge Area	Toole	Swift	37,217
Ethridge, North	Toole	Swift	4,749
Fitzpatrick Lake	Toole	Bow Island	147,992
Flat Coulee	Liberty	Sawtooth, Bow Island, Dakota, Swift, Blackleaf	62,439
Fort Conrad	Toole, Pondera	Bow Island	99,533
Fred and George Creek	Toole	Sunburst, Bow Island, Swift-Blackleaf	41,215
Fresno and Area	Hill	Eagle	55,941
Galata	Toole	Bow Island	178,211

GAS PRODUCTION DATA—1987 NATURAL GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Gold Butte	Toole	Bow Island	4,622
Golden Dome	Carbon	Greybull, Frontier	125,701
Grandview	Liberty	Bow Island, Sawtooth	28,822
Gypsy Basin	Pondera	Sunburst, Madison, Sawtooth, Swift, Moulton	5,440
Hammond	Carter	Muddy	8,629
Hardin	Big Horn	Frontier	19,443
Hardpan and Area	Pondera, Chouteau	Bow Island	149,378
Havre	Hill, Blaine	Eagle	205,444
Haystack Butte	Liberty	Bow Island	24,523
Keith Area	Liberty	Second White Specks, Sawtooth, Bow Island	14,306
Keith, East	Liberty	Second White Specks, Sawtooth, Bow Island, Niobrara	444,309
Kevin Area	Toole	Swift, Sunburst	8,724
Kevin, Southwest	Toole	Bow Island, Sunburst, Swift, Dakota, Sunburst	293,705
Kevin-Sunburst	Toole	Dakota, Eagle, Madison, Swift, Bow Island, Sunburst, Kootenai	1,013,561
Kevin-Sunburst Nisku	Toole	Swift	39,888
Kicking Horse	Toole	Bow Island, Sunburst, Sawtooth	74,065
Kinyon Coulee Area	Toole	Bow Island	21,026
Kippen Area, East	Toole	Madison-Swift, Sawtooth	1,005
Lake Basin	Stillwater	Claggett, Eagle-Virgelle, Telegraph Creek, Frontier	262,276
Lake Basin, North	Stillwater	Eagle	14,096
Ledger	Pondera	Bow Island, Sawtooth	408,545
Leroy	Blaine	Eagle	706,773
Liscom Creek	Custer	Shannon	92,176
Little Basin	Stillwater	Frontier	167,624
Little Creek Area	Chouteau	Eagle-Virgelle	63,290
Little Rock	Glacier	Bow Island-Blackleaf	66,828
Lohman and Area	Blaine	Eagle	224,208
Loring Unit	Phillips	Phillips-Bowdoin-Carlile-Greenhorn	1,020,344
Loring, East	Phillips	Phillips-Bowdoin-Carlile-Greenhorn	709,246
Marias River	Toole, Pondera	Bow Island	261,195
Middle Butte	Toole, Liberty	Bow Island, Dakota, Second White Specks	15,220
Miners Coulee	Toole	Sunburst, Bow Island, Sawtooth	198,800
Mount Lily	Liberty	Madison, Swift, Bow Island	19,220
O'Briens Coulee	Liberty	Bow Island, Second White Specks, Blackleaf	120,703
Old Shelby	Toole	Bow Island, Sunburst-Swift	644,268
Park City	Stillwater	Virgelle	26,442
Phantom	Toole	Sunburst	69,919
Phantom, West	Toole	Sunburst	25,084
Police Coulee	Toole	Bow Island	21,881
Prairie Dell	Toole	Bow Island-Swift-Dakota-Sunburst	624,148
Prairie Dell, West	Toole	Swift	21,673
Rapelje	Stillwater	Eagle-Virgelle-Claggett	60,384
Rattlesnake Coulee	Toole	Bow Island, Sunburst	4,601
Red Rock Area	Hill	Eagle, Judith River	93,388
Rocky Boy	Hill	Eagle	60,300
Rudyard	Hill	Sawtooth, Eagle	114,114
Sage Creek	Liberty	Blackleaf, Second White Specks, Bow Island	107,896
Sandwich	Liberty	Swift	1,154
Sawtooth Mountain	Blaine	Judith River, Eagle	613,518
Shelby Area	Toole	Sunburst	22,824
Sherard and Area	Blaine, Chouteau	Eagle, Judith River	608,019
Snoose Coulee	Liberty	Bow Island	26,968

GAS PRODUCTION DATA—1987
NATURAL GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Soberup Coulee	Pondera	Bow Island	1,328
Spring Coulee	Hill	Sawtooth	98,401
Strawberry Creek	Toole	Bow Island, Burwash	101,966
Swanson Creek	Phillips, Valley	Phillips-Bow Island-Greenhorn	540,342
Sweetgrass	Toole	Sunburst	559
Three Mile	Blaine	Eagle	168,478
Tiber and Area	Toole	Bow Island	211,851
Tiger Ridge and Area	Blaine, Hill	Eagle, Judith River	8,813,691
Tiger Ridge, North	Blaine	Eagle	1,418
Trail Creek	Liberty, Toole	Bow Island, Sunburst, Swift	107,074
Utopia	Liberty	Sawtooth, Bow Island, Swift	31,734
Vandalia	Valley	Greenhorn, Bowdoin, Phillips	41,909
West Butte	Toole	Bow Island, Sunburst	18,668
West Butte Shallow Gas	Toole	Bow Island-Dakota	38,071
Whitewater, East	Phillips	Bowdoin-Phillips-Greenhorn	202,085
Whitlash	Liberty	Dakota, Swift, Bow Island, Madison, Swift-Sunburst	388,333
Whitelash, West	Toole	Sunburst, Bow Island, Swift	24,481
Williams	Pondera	Bow Island	138,083
Willow Ridge	Toole	Bow Island, Swift, Dakota, Duperow, Sunburst	294,391
Willow Ridge, South	Toole	Sunburst	200,181
Wildcat	Toole	Bow Island	1,046
SUBTOTAL NATURAL GAS			36,556,084

NATURAL GAS IMPORTED MMCF

Canada	6,174
North Dakota	35,090
Wyoming	6,883
	<u>48,147</u>

NATURAL GAS EXPORTED MMCF

Canada	40
North Dakota	435
South Dakota	5,216
Wyoming	18,795
Midwest	<u>10,557</u>
	35,043

GAS PRODUCTION DATA — 1987

ASSOCIATED GAS

Field	County	Producing Formation	Produced MCF
Anvil	Roosevelt	Nisku, Ratcliffe, Red River	333,336
Bainville	Roosevelt	Red River, Gunton, Interlake, Madison, Winnipegosis	17,527
Bainville, North	Roosevelt	Ratcliffe, Red River, Winnipegosis	111,239
Bainville, West	Roosevelt	Red River, Madison	11,181
Bainville II	Roosevelt	Red River	53,801
Beanblossum	Garfield	Tyler	2,709
Belfry	Carbon	Kootenai	1,454
Bell Creek	Carter, Powder River	Muddy	3,755
Benrud Area	Roosevelt	Madison	8,078
Benrud, East	Roosevelt	Nisku	11,922
Benrud, Northeast	Roosevelt	Nisku	3,653
Big Muddy Creek	Roosevelt	Mission Canyon, Red River	22,949
Black Diamond	Wibaux	Nisku	95,059
Bloomfield	Dawson	Dawson Bay, Red River-Interlake	45,247
Blue Mountain	Wibaux	Red River	6,097
Box Canyon	Richland	Red River	10,994
Breed Creek	Rosebud	Tyler	1,522
Brorson	Richland	Madison, Red River	86,030
Brorson, South	Richland	Red River, Madison	31,054
Brush Lake	Sheridan	Red River	44,434
Cabin Creek	Fallon	Madison, Siluro-Ord	624,972
Canal	Richland	Madison, Red River	39,827
Cannon Ball	Fallon	Red River	3,354
Charlie Creek	Richland	Nisku, Red River	42,022
Charlie Creek, East	Richland	Red River, Duperow	79,303
Charlie Creek, North	Richland	Bakken, Madison	1,311
Clear Lake	Sheridan	Madison, Nisku, Red River	193,113
Clear Lake, South	Sheridan	Red River	2,790
Colored Canyon	Sheridan	Red River	38,721
Comertown	Sheridan	Nisku, Ratcliffe, Red River	53,439
Comertown, South	Sheridan	Nisku, Red River	12,839
Cottonwood	Richland	Red River	17,301
Crane	Richland	Devonian, Siluro-Ord	266,317
Cupton	Fallon	Red River	39,708
Cut Bank	Pondera, Glacier, Toole	Madison, Moulton, Sunburst	41,721
Dagmar	Sheridan	Red River	36,996
Dagmar, North	Sheridan	Red River	3,808
Deer Creek	Dawson	Interlake, Red River	2,178
Diamond Point	Roosevelt	Red River	77,626
Divide	Sheridan	Madison	62,060
Dooley	Sheridan	Ratcliffe	1,040
Dry Creek	Carbon	Greybull, Eagle	115,244
Dry Creek, West	Carbon	Frontier	43
Dutch John Coulee	Toole	Sunburst	99,557
Dwyer	Sheridan	Sunburst, Interlake, Madison	54,588
Eagle	Richland	Madison, Red River, Duperow	67,743
Elk Basin	Carbon	Madison, Tensleep	459,525
Enid, North	Richland	Red River, Bakken	15,011
Fairview	Richland	Interlake, Madison, Red River	403,258
Fairview, East	Richland	Red River	12,186
Fairview, West	Richland	Madison	8,050
Fertile Prairie	Fallon	Red River	9,296
Fishhook	Sheridan	Red River	38,682
Flat Coulee (Swift SU)	Liberty	Swift	10,585
Flat Lake	Sheridan	Nisku, Madison	81,119
Flat Lake, South	Sheridan	Ratcliffe	3,424
Flaxville	Daniels	Mission Canyon	1,414
Fort Gilbert	Richland	Madison, Red River, Duperow	82,010

GAS PRODUCTION DATA— 1987 ASSOCIATED GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Four Mile Creek	Richland	Red River	6,377
Four Mile Creek, West	Richland	Red River	1,313
Fox Creek	Richland	Stonewall	2,466
Fox Creek, North	Richland	Madison	198
Frannie	Carbon	Tensleep	32
Fred & George Creek	Toole	Sunburst	439
Frog Coulee	Richland	Red River	1,998
Froid, South	Roosevelt	Red River	5,132
Gas City	Dawson	Madison, Siluro-Ord	4,677
Girard	Richland	Red River	28,407
Glendive	Dawson	Siluro-Ord	19,878
Golden Dome	Carbon	Greybull	51,681
Goose Lake	Sheridan	Ratcliffe, Red River	26,747
Goose Lake, West	Sheridan	Red River	23,234
Gossett	Richland	Stoney Mountain, Red River, Madison	11,412
Gumbo Ridge	Rosebud	Tyler	385
Gunsight	Roosevelt	Madison	360
Hardscrable Creek	Richland	Red River	5,371
Hay Creek	Richland	Interlake, Mission Canyon, Red River	28,480
Hiawatha	Musselshell	Tyler	2,105
High Five	Rosebud	Stensvad	7,681
Honker	Sheridan	Red River	8,887
Intake II	Richland	Red River	52,071
Jim Coulee	Musselshell	Tyler	5,018
Jim Coulee, North	Musselshell	Tyler, Stensvad	229
Katy Lake	Sheridan	Red River	20,045
Katy Lake, North	Sheridan	Red River, Mission Canyon, Nesson	228,515
Keg Coulee	Musselshell	Tyler	90
Kelley Unit	Musselshell	Tyler	1,096
Kevin-Sunburst	Toole	Madison, Nisku, Sunburst	266,485
Kevin, East Nisku Oil	Toole	Nisku	51,677
Kincheloe Ranch, West	Rosebud	Tyler	9,521
Laird Creek	Liberty	Swift	690
Lambert	Richland	Red River	22,932
Landslide Butte	Glacier	Madison	89,625
Little Beaver	Fallon	Siluro-Ord	30,451
Little Beaver, East	Fallon	Siluro-Ord	24,662
Little Wall Creek	Musselshell	Tyler, Lower Tyler, Stensvad	18,885
Little Wall Creek, South	Musselshell	Tyler	17,672
Lobo	Sheridan, Roosevelt	Interlake, Red River	64,062
Lone Butte	Richland	Red River	35,844
Lonetree Creek	Richland	Red River	113,885
Lookout Butte	Fallon	Siluro-Ord, Madison	77,482
Lookout Butte, East	Fallon	Red River	6,823
Lowell	Sheridan	Red River	4,426
Lustre	Valley	Madison	114,922
Lustre Area	Valley	Madison	680
McCabe	Roosevelt	Ratcliffe	11,804
McCabe, West	Roosevelt	Red River	10,803
McCoy Creek	Sheridan	Red River	4,463
Medicine Lake	Sheridan	Winnipegosis, Siluro-Ord, Mission Canyon	267,671
Melstone	Musselshell	Tyler	17,829
Midfork	Valley	Charles C	3,520
Missouri Breaks	Richland	Red River	17,943
Mona	Richland	Red River	57,181
Monarch	Fallon	Siluro-Ord, Madison	8,894
Mondak, West	Richland	Devonian, Madison, Siluro-Ord	378,373
Mustang	Richland	Red River	27,591
Neisser Creek	Sheridan	Red River	14,945
Ninemile	Toole	Nisku, Sunburst	3,854

GAS PRODUCTION DATA — 1987
ASSOCIATED GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Nohly	Richland	Red River, Nisku, Ratcliffe	378,948
Nohly, South	Richland	Red River	2,488
North Fork	Richland	Madison	21,995
Olje	Sheridan	Red River, Mission Canyon	13,910
Ollie	Fallon	Duperow, Red River	3,839
Otis Creek	Richland	Red River	15,113
Otis Creek, South	Richland	Red River	18,977
Outlook	Sheridan	Duperow, Winnipegosis, Nisku, Interlake	29,281
Outlook, South	Sheridan	Winnipegosis	1,670
Outlook, West	Sheridan	Winnipegosis	7
Oxbow	Roosevelt	Red River	18,057
Oxbow II	Roosevelt	Red River	12,121
Pelican	Sheridan	Red River	18,520
Pennel	Fallon	Siluro-Ord	664,210
Pine	Fallon, Wibaux, Prairie, Dawson	Madison, Siluro-Ord	285,849
Pipeline	Sheridan	Red River	1,246
Pondera	Pondera, Teton	Madison	16
Poplar, Northwest	Roosevelt	Charles	173,929
Prichard Creek	Toole	Sunburst	68
Pronghorn	Sheridan	Red River	28,365
Putnam	Richland	Madison, Red River, Interlake	232,325
Ragged Point	Musselshell	Tyler	1,071
Rainbow	Richland	Red River	12,738
Rattler Butte	Rosebud	Tyler	618
Rattlesnake Butte	Petroleum	Amsden, Cat Creek 1	18,716
Rattlesnake Coulee	Toole	Sunburst	344
Raymond	Sheridan	Mississippian, Red River, Winnipegosis, Nisku	298,468
Reagan	Glacier	Madison	413,752
Red Bank	Roosevelt	Red River, Madison	40,235
Red Bank, South	Roosevelt	Red River	10,966
Red Creek Unit	Glacier	Cut Bank, Madison	6,892
Red Fox	Roosevelt	Nisku	159
Red Water, East	Richland	Red River	15,345
Redstone	Sheridan	Winnipegosis	141
Refuge	Sheridan	Red River	14,681
Repeat	Carter	Red River	1,200
Reserve	Sheridan	Red River, Winnipegosis	24,029
Reserve II	Sheridan	Red River	18,376
Reserve, South	Sheridan	Red River	7,872
Richey, Southwest	McCone	Interlake	1,094
Ridgelawn	Richland	Madison, Red River, Duperow, Mission Canyon	718,336
RipRap Coulee	Roosevelt	Ratcliffe	10,992
River Bend	Richland	Red River	34,796
Rocky Point	Roosevelt	Red River	57,807
Rosebud	Rosebud	Tyler	1,011
Royals	Dawson	Dawson Bay	21,586
Rush Mountain	Sheridan	Red River, Gunton	8,295
Salt Lake	Sheridan	Red River	13,505
Sand Creek	Dawson	Interlake-Red River	6,390
Second Creek	Richland	Red River	47,310
Shotgun Creek	Roosevelt	Ratcliffe	12,593
Sidney	Richland	Madison, Red River	91,742
Sidney, East	Richland	Madison	25,100
Singletree	Roosevelt	Winnipegosis	11,581
Sioux Pass	Richland	Red River, Mission Canyon	76,399
Sioux Pass, East	Richland	Red River	895
Sioux Pass, Middle	Richland	Red River	68,090

GAS PRODUCTION DATA — 1987
ASSOCIATED GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Sioux Pass, North	Richland	Madison, Red River	133,102
Sioux Pass, South	Richland	Red River	23,030
Snoose Coulee	Liberty	Bow Island	3,222
South Fork	Richland	Red River	23,620
Spring Lake	Richland	Bakken, Red River	43,534
Spring Lake, South	Richland	Red River	20,623
Spring Lake, West	Richland	Bakken	5,325
Stampede	Richland	Red River, Duperow	21,973
Studhorse	Garfield	Stensvad	1,001
Sumatra	Rosebud	Tyler	127,386
Sunny Hill, West	Sheridan	Red River	19,308
Three Buttes	Richland	Gunton, Red River, Mission Canyon	27,571
Tippy Buttes	Musselshell	Tyler	777
Tule Creek	Roosevelt	Nisku, Devonian	36,574
Tule Creek, East	Roosevelt	Nisku	7,559
Two Waters	Richland	Bakken	2,692
Vaux	Richland	Madison, Interlake, Red River, Stonewall	238,356
Wakea	Sheridan	Red River, Interlake, Winnipegosis	86,289
Weed Creek	Yellowstone	Amsden	752
Whitlash	Liberty	Swift, Sunburst	67,084
Wills Creek, South	Fallon	Siluro-Ord	2,670
Windmill	Richland	Red River	1,440
Wolf Springs	Yellowstone	Amsden	9,073
Woodrow	Dawson	Charles	2,664
Wrangler	Sheridan	Red River	39,286
Wrangler, North	Sheridan	Red River	5,936
Wright Creek	Powder River	Muddy	180
SUBTOTAL ASSOCIATED GAS PRODUCED			11,289,227
SUBTOTAL NATURAL GAS PRODUCED			36,556,084
TOTAL GAS			47,845,311

REFINERS' YEARLY TOTAL—1987

COMPANY	BEGINNING STORAGE	MONTANA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
CENEX	217,257	2,054,578	2,145,133	6,956,512	11,263,800	109,680
CONTINENTAL OIL CO.	94,226	1,356,127	3,674,744	10,426,485	15,403,190	148,392
EXXON COMPANY	148,639	361,881	7,937,726	6,067,162	14,155,138	360,270
FLYING J OIL CO.	5,614	—	—	—	—	5,614
MONTANA REFINING CO.	14,845	1,220,657	—	946,266	2,165,614	16,154
TOTALS	480,581	4,993,243	13,757,603	24,396,425	42,987,742	640,110

PERCENTAGE OF CRUDE OIL RECEIVED

YEAR	MONTANA	CANADA	N. DAKOTA	WYOMING
1983	16.98	37.16	0.11	45.75
1984	18.21	33.80	0.13	47.86
1985	18.97	39.06	0.03	41.94
1986	14.13	53.48	0.00	32.39
1987	11.57	56.54	0.00	31.89

AVERAGE BARRELS PER DAY

YEAR	MONTANA	CANADA	N. DAKOTA	WYOMING	TOTAL
1983	19,507	42,696	124	52,555	114,882
1984	21,369	39,662	151	56,153	117,335
1985	21,382	44,043	28	47,283	112,736
1986	16,492	62,405	—	37,795	116,692
1987	13,680	66,840	—	37,692	118,212

REFINING FIVE YEAR COMPARISON

1983	1984	1985	1986	1987
41,932,061	42,944,663	41,296,085	42,652,657	42,987,742

**BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA
STATEMENT OF CRUDE OIL PRODUCTION AND VALUATION—ALL MONTANA FIELDS**

YEAR 1987 AND ACCUMULATED TOTAL FROM DISCOVERY DATE

FIELD	COUNTY	PRODUCTION YEAR 1987			CUMULATIVE TO DECEMBER 31, 1987	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Anvil	Roosevelt	336,909	5,811,680	17.25	2,927,786	72,978,294
Ash Creek	Big Horn	4,972	91,336	18.37	821,308	3,257,495
Bainville	Roosevelt	35,860	618,226	17.24	490,977	5,973,213
Bainville II	Roosevelt	74,736	1,255,565	16.80	424,405	9,442,183
Bainville, North	Roosevelt	131,205	2,240,981	17.08	1,185,891	33,290,689
Bainville, West	Roosevelt	9,991	171,545	17.17	193,251	5,524,647
Bannatyne	Teton	10,140	159,705	15.75	340,755	3,368,228
Beanblossom	Garfield	85,938	1,434,305	16.69	290,569	5,107,977
Bear's Den	Liberty	6,134	105,321	17.17	504,500	3,323,101
Belfry	Carbon	542	9,073	16.74	100,638	493,794
Bell Creek	Powder River	1,047,328	17,689,370	16.89	128,651,081	1,163,283,327
Benrud	Roosevelt	11,068	183,839	16.61	281,425	2,312,525
Benrud, East	Roosevelt	36,843	622,278	16.89	2,704,273	17,546,733
Benrud, Northeast	Roosevelt	8,626	146,038	16.93	967,965	4,347,267
Berthelote	Toole	1,087	19,207	17.67	58,470	318,066
Big Gully	Musselshell	760	12,373	16.28	98,964	1,468,126
Big Muddy Creek	Roosevelt	33,695	559,000	16.59	1,217,742	20,470,206
Big Rock	Glacier	340	5,695	16.75	10,764	262,921
Big Wall	Musselshell	70,575	1,113,674	15.78	7,518,896	34,936,089
Black Diamond	Wibaux	152,360	2,565,742	16.84	370,624	7,336,027
Blackfoot	Glacier	41,634	682,381	16.39	1,436,009	11,768,534
Blackleaf Canyon	Teton	540	5,546	10.27	32,365	796,529
Bloomfield	Dawson	88,135	1,418,974	16.10	354,701	7,424,801
Blue Mountain	Wibaux	6,417	109,217	17.02	46,045	1,072,545
Border	Toole	10,444	170,028	16.28	1,403,317	4,932,167
Bowes	Blaine	108,990	1,470,275	13.49	9,481,078	40,119,853
Box Canyon	Richland	11,197	193,036	17.24	196,924	6,025,458
Bradley	Glacier	2,060	31,271	15.18	248,355	1,604,058
Brady	Pondera	5,845	89,429	15.30	159,753	3,038,411
Breed Creek	Rosebud	77,050	1,255,915	16.30	1,092,603	22,376,496
Brorson-Madison	Richland	108,564	1,858,616	17.12	960,351	15,332,543
Brorson-Red River	Richland	42,671	730,528	17.12	2,174,097	14,458,996
Brorson, South	Richland	26,582	432,755	16.28	1,563,491	16,619,193
Brush Lake	Sheridan	70,019	1,200,126	17.14	2,460,070	23,155,595
Buffalo Flats	Chouteau	39	653	16.75	603	15,037
Burget, East	Roosevelt	21,765	345,846	15.89	157,216	3,878,658
Burns Creek	Dawson, Richland	3,500	63,595	18.17	240,813	2,890,120
Cabin Creek	Fallon	1,511,250	24,467,138	16.19	88,721,312	519,138,656
Canal	Richland	38,811	652,801	16.82	984,894	15,132,662
Cannonball	Fallon	2,708	46,605	17.21	57,183	1,840,270
Carlyle	Wibaux	6,731	115,033	17.09	269,345	6,231,802
Cat Creek	Petroleum, Garfield	57,707	964,284	16.71	23,432,882	68,172,057
Charlie Creek	Richland	28,619	472,500	16.51	661,997	11,628,314
Charlie Creek, East	Richland	74,438	1,261,724	16.95	358,358	9,817,365
Charlie Creek, North	Richland	2,424	39,729	16.39	41,655	1,151,992
Chelsea Creek	Roosevelt	15,409	268,733	17.44	77,912	1,321,873
Clark's Fork	Carbon	547	6,400	11.70	88,833	395,817
Clear Lake	Sheridan	271,803	4,713,064	17.34	2,185,097	51,008,831
Clear Lake, South	Sheridan	16,673	279,940	16.79	115,420	2,513,701
Coal Ridge	Sheridan	711	11,710	16.47	22,582	795,495
Colored Canyon	Sheridan	44,428	768,604	17.30	755,480	19,339,308
Comertown	Sheridan	145,830	2,495,151	17.11	1,751,518	49,016,206
Comertown, South	Sheridan	39,981	697,844	17.45	184,793	3,902,627

FIELD	COUNTY	PRODUCTION YEAR 1987			CUMULATIVE TO DECEMBER 31, 1987	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Conrad, South	Pondera	2,169	36,331	16.75	147,686	953,187
Cottonwood	Richland	19,224	316,235	16.45	134,229	2,947,429
Cow Creek, East	McCone	47,001	741,676	15.78	2,325,750	26,672,032
Crane	Richland	237,721	4,152,986	17.47	1,372,652	38,083,547
Crocker Springs, East	Pondera	28	482	17.23	1,448	41,472
Crooked Creek	Yellowstone	3,315	57,350	17.30	23,129	442,418
Cupton	Fallon	76,664	1,318,621	17.20	2,090,853	27,249,714
Cut Bank	Glacier, Toole	1,026,554	17,359,028	16.91	160,363,528	690,396,374
Dagmar	Sheridan	21,352	368,536	17.26	518,028	11,631,364
Dagmar, North	Sheridan	2,707	45,938	16.97	55,339	1,652,864
Deer Creek	Dawson	4,560	65,573	14.38	2,307,699	6,567,765
Delphia	Musselshell	3,060	50,674	16.56	323,630	1,500,239
Devil's Basin	Musselshell	3,975	66,661	16.77	107,278	1,661,750
Devil's Pocket	Golden Valley	7,866	120,979	15.38	37,277	739,503
Diamond Point	Roosevelt	68,846	1,124,944	16.34	645,690	14,549,629
Divide	Sheridan	152,551	2,533,872	16.61	1,461,937	39,081,601
Dooley	Sheridan	5,270	79,050	15.00	5,270	79,050
Dry Creek	Carbon	5,319	90,795	17.07	4,138,949	9,891,471
Dry Creek, Middle	Carbon	176	3,152	17.91	763	16,678
Dry Creek, West	Carbon	702	12,110	17.25	5,952	163,643
Dutch John Coulee	Toole	41,221	723,429	17.55	138,359	2,578,647
Dwyer	Sheridan	172,033	2,895,315	16.83	7,721,684	59,648,968
Eagle	Richland	111,100	1,893,144	17.04	1,455,202	35,480,434
East Glacier	Glacier	805	14,176	17.61	21,043	654,894
Elk Basin	Carbon	603,629	9,881,407	16.37	81,227,970	333,388,056
Elk Basin, Northwest	Carbon	125,602	2,097,553	16.70	1,343,298	7,434,671
Enid, North	Richland	14,300	245,531	17.17	252,433	6,839,602
Fairview	Richland	233,209	3,969,217	17.02	8,027,148	77,494,775
Fairview, East	Richland	15,872	273,316	17.22	341,190	10,253,617
Fairview, West	Richland	18,642	312,813	16.78	168,916	4,435,528
Fertile Prairie	Fallon	22,762	391,279	17.19	646,847	6,680,194
Fiddler Creek	Stillwater	20	335	16.75	2,574	50,224
Fishhook	Sheridan	63,315	1,047,863	16.55	922,279	26,182,574
Flat Coulee	Liberty	118,263	2,055,411	17.38	4,499,093	47,332,759
Flat Lake	Sheridan	308,027	4,629,646	15.03	14,725,841	119,446,099
Flat Lake, East	Sheridan	9,542	163,073	17.09	27,449	519,338
Flat Lake, South	Sheridan	26,595	398,925	15.00	1,147,838	12,759,658
Flaxville	Daniels	3,574	55,862	15.63	56,283	1,392,485
Fort Gilbert	Richland	85,659	1,463,912	17.09	1,972,929	28,248,645
Four Mile Creek	Richland	8,751	145,879	16.67	346,276	6,495,610
Four Mile Creek, West	Richland	8,373	145,355	17.36	245,995	5,561,994
Fox Creek	Richland	3,325	58,819	17.69	198,639	4,613,248
Fox Creek, North	Richland	1,582	24,648	15.58	68,782	1,768,174
Frannie	Carbon	4,020	64,642	16.08	760,832	2,785,859
Fred & George Creek	Toole	91,722	1,530,558	16.69	12,882,687	80,485,006
Frog Coulee	Richland	10,238	182,748	17.85	155,828	4,496,449
Froid, South	Roosevelt	6,424	110,814	17.25	214,840	2,144,555
Gage	Musselshell	6,192	103,592	16.73	632,979	3,136,254
Gas City	Dawson	102,958	1,711,162	16.62	9,865,062	52,385,760
Girard	Richland	29,759	496,380	16.68	343,359	3,527,080
Glendive	Dawson	187,574	3,295,675	17.57	12,399,450	61,944,413
Golden Dome	Carbon	3,051	55,010	18.03	72,030	976,139
Goose Lake	Sheridan	95,210	1,510,031	15.86	8,512,924	60,908,414

FIELD	COUNTY	PRODUCTION YEAR 1987			CUMULATIVE TO DECEMBER 31, 1987	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Goose Lake, West	Sheridan	46,199	812,178	17.58	414,963	11,086,235
Gossett	Richland	24,239	413,760	17.07	219,272	5,321,358
Graben Coulee	Glacier	74,812	1,272,552	17.01	1,943,311	22,955,284
Grandview, East	Liberty	3,524	62,375	17.70	39,310	975,380
Green Coulee	Sheridan	15,107	262,560	17.38	143,866	3,904,996
Gumbo Ridge	Rosebud	4,848	78,586	16.21	579,181	11,137,342
Gunsight	Roosevelt	25,148	421,983	16.78	168,789	4,142,293
Gypsy Basin	Pondera	19,807	333,154	16.82	445,576	7,089,034
Hardpan	Pondera	268	3,637	13.57	1,905	47,683
Hardscrabble Creek	Richland	10,276	181,577	17.67	101,220	2,545,152
Hawk Creek	Musselshell	506	8,228	16.26	10,348	121,415
Hay Creek	Richland	35,397	598,563	16.91	1,252,524	10,370,801
Hiawatha	Musselshell	23,099	381,826	16.53	1,515,741	9,291,174
High Five	Rosebud	105,562	1,752,329	16.60	2,103,213	45,017,244
Highview	Pondera	9,038	149,308	16.52	64,143	1,479,177
Honker	Sheridan	5,429	92,890	17.11	93,250	2,721,702
Horse Creek	Liberty	564	9,306	16.50	10,323	203,908
Howard Coulee	Musselshell	1,260	19,568	15.53	124,578	1,863,286
Injun Creek	Rosebud	3,832	69,398	18.11	117,387	2,891,710
Intake II	Richland	40,656	703,613	17.31	636,488	18,060,818
Ivanhoe	Musselshell	2,138	36,196	16.93	4,496,528	14,259,627
Jim Coulee	Musselshell	66,109	1,084,019	16.40	4,108,861	41,814,519
Katy Lake	Sheridan	21,380	360,681	16.87	106,271	1,875,816
Katy Lake, North	Sheridan	366,297	6,139,138	16.76	3,265,773	91,741,816
Keg Coulee	Musselshell	71,111	1,190,398	16.74	5,465,460	33,733,358
Keg Coulee, North	Musselshell	1,703	28,117	16.51	437,149	4,807,901
Kelley	Musselshell	9,183	153,264	16.69	977,976	5,783,634
Kevin Nisku Oil, East	Toole	58,760	1,017,723	17.32	208,186	3,991,366
Kevin-Sunburst	Toole	474,732	7,833,078	16.50	77,582,569	269,105,116
Kincheloe Ranch, West	Rosebud	34,313	565,478	16.48	512,550	14,449,650
Laird Creek	Liberty	5,916	103,353	17.47	571,082	4,600,713
Lambert	Richland	13,767	232,249	16.87	353,151	10,356,441
Lamesteer Creek	Wibaux	4,121	70,593	17.13	21,439	476,222
Landslide Butte	Glacier	46,290	798,965	17.26	237,689	4,395,970
Leary	Powder River	5,710	97,926	17.15	597,986	8,826,137
Little Beaver	Fallon	384,939	5,981,952	15.54	11,957,792	100,922,978
Little Beaver, East	Fallon	129,529	2,075,055	16.02	5,394,567	35,958,227
Little Phantom	Toole	2,069	29,380	14.20	49,545	1,049,750
Little Wall Creek	Musselshell	204,200	3,370,651	16.51	3,515,921	64,101,984
Lobo	Sheridan, Roosevelt	51,631	883,923	17.12	135,779	2,011,506
Lodge Grass	Big Horn	6,067	89,731	14.79	290,374	1,628,320
Lone Butte	Richland	44,157	742,721	16.82	525,653	8,822,448
Lonetree Creek	Richland	86,145	1,481,694	17.20	3,255,468	38,707,292
Lonetree Creek, West	Richland	40	628	15.71	33,026	1,020,504
Long Creek	Roosevelt	3,342	52,770	15.79	61,697	1,222,225
Long Creek, West	Roosevelt	41,736	725,372	17.38	542,089	11,973,811
Lookout Butte	Fallon	454,210	7,383,416	16.26	22,946,480	156,641,144
Lookout Butte, East	Fallon	49,514	867,485	17.52	87,803	1,404,679
Lowell	Sheridan	13,799	236,515	17.14	204,802	6,102,932
Lustre	Valley	487,906	7,651,756	15.68	3,238,185	72,411,638
Lustre, North	Valley	17,889	275,133	15.38	118,602	2,459,195
Mason Lake	Musselshell	9,788	157,293	16.07	934,241	23,110,294
McCabe	Roosevelt	11,433	198,363	17.35	214,881	5,561,370
McCabe, West	Roosevelt	10,076	175,322	17.40	64,051	1,423,323

PRODUCTION YEAR 1987					CUMULATIVE TO DECEMBER 31, 1987	
FIELD	COUNTY	BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
McCoy Creek	Sheridan	6,753	116,422	17.24	31,987	652,556
Medicine Lake	Sheridan	245,669	4,257,444	17.33	2,672,427	78,682,199
Melstone	Musselshell	111,253	1,830,112	16.45	3,355,250	42,830,593
Midfork	Valley	35,657	573,365	16.08	91,374	1,342,340
Mineral Bench	Roosevelt	3,425	63,123	18.43	179,867	1,305,242
Missouri Breaks	Richland	20,566	353,324	17.18	266,068	7,321,108
Mon Dak, West	Richland	456,745	7,750,963	16.97	7,509,226	180,527,395
Mona	Richland	3,598	59,187	16.45	68,744	1,992,251
Monarch	Fallon	144,156	2,326,678	16.14	5,326,690	41,305,024
Mosser Dome	Yellowstone	9,868	147,921	14.99	358,165	2,653,823
Musselshell	Musselshell	2,763	45,258	16.38	30,318	414,937
Mustang	Richland	28,893	483,091	16.72	437,998	13,066,126
Neiser Creek	Sheridan	30,053	510,300	16.98	171,357	4,056,386
Ninemile	Toole	6,769	111,824	16.52	24,610	450,111
Nohly	Richland	541,908	9,375,662	17.30	3,098,133	53,037,563
Nohly, South	Richland	657	11,189	17.03	125,082	3,504,089
North Fork	Richland	25,081	427,631	17.05	418,840	8,919,592
Olje	Sheridan	29,997	517,148	17.24	109,533	1,979,876
Ollie	Fallon	10,527	170,537	16.20	204,086	6,564,015
Otis Creek	Richland	15,049	258,241	17.16	801,157	10,704,975
Otis Creek, South	Richland	28,925	477,552	16.51	195,042	4,851,272
Outlook	Sheridan	120,996	2,064,192	17.06	8,501,689	58,931,586
Outlook, South	Sheridan	2,406	43,332	18.01	692,013	2,864,506
Outlook, West	Sheridan	14,704	253,203	17.22	708,116	5,889,804
Oxbow	Roosevelt	26,142	452,779	17.32	325,833	7,206,901
Oxbow II	Roosevelt	7,059	123,462	17.49	34,402	756,254
Palomino	Roosevelt	140,625	2,484,950	17.67	1,193,298	32,416,303
Pelican	Sheridan	14,307	250,945	17.54	166,462	4,904,909
Pennel	Fallon	2,993,080	48,489,060	16.20	69,190,043	822,899,166
Pete Creek	Toole	1,127	17,119	15.19	18,241	391,648
Pine	Fallon, Wibaux	1,412,445	23,036,978	16.31	103,896,949	604,260,625
Pipeline	Sheridan	4,121	70,510	17.11	13,562	186,728
Pondera	Pondera, Teton	385,434	6,417,476	16.65	24,500,888	144,161,057
Pondera Coulee	Teton	5,200	84,812	16.31	56,350	801,184
Poplar, East	Roosevelt	182,392	3,082,425	16.90	44,955,055	172,834,201
Poplar, Northwest	Roosevelt	230,438	3,889,911	16.88	2,888,794	50,514,148
Prairie Dell	Toole	52	935	17.98	504	10,803
Prairie Elk	McCone	2,823	43,333	15.35	85,699	1,338,249
Prichard Creek	Toole	3,041	43,669	14.36	159,357	2,412,994
Pronghorn	Sheridan	29,209	501,226	17.16	356,026	9,272,669
Putnam	Richland	447,914	7,753,391	17.31	4,054,745	87,608,779
Rabbit Hills	Blaine	78,264	1,180,622	15.09	966,220	15,086,132
Ragged Point	Musselshell	90,623	1,496,136	16.51	3,777,950	31,733,378
Rainbow	Richland	11,628	201,630	17.34	114,447	3,087,637
Rattler Butte	Rosebud	31,054	513,633	16.54	843,647	22,851,823
Rattlesnake Butte	Petroleum	84,056	1,327,244	15.79	342,341	6,445,479
Rattlesnake Coulee	Toole	193	3,173	16.44	91,024	693,093
Raymond	Sheridan	169,303	2,930,635	17.31	4,182,705	74,773,754
Raymond, North	Sheridan	5,590	96,204	17.21	116,839	3,061,417
Reagan	Glacier	175,703	3,043,176	17.32	8,332,340	78,190,097
Red Bank	Roosevelt	111,183	1,820,066	16.37	1,473,636	41,571,965
Red Bank, South	Roosevelt	11,853	200,316	16.90	282,291	7,903,160
Red Creek	Glacier	99,587	1,576,462	15.83	5,984,700	31,874,185

FIELD	COUNTY	PRODUCTION YEAR 1987			CUMULATIVE TO DECEMBER 31, 1987	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Red Fox	Roosevelt	539	9,670	17.94	375,650	1,596,851
Red Water, East	Richland	17,504	301,769	17.24	180,509	4,467,448
Redstone	Sheridan	529	8,602	16.26	468,178	2,212,903
Refuge	Sheridan	15,285	267,182	17.48	155,063	4,625,732
Repeat	Carter	8,180	114,765	14.03	531,332	3,096,457
Reserve	Sheridan	23,656	404,281	17.09	1,591,063	14,058,195
Reserve II	Sheridan	24,770	447,594	18.07	24,770	447,594
Reserve, South	Sheridan	9,509	169,736	17.85	25,695	425,312
Richey	Dawson, McCone	5,104	87,158	17.08	1,991,356	7,036,296
Richey, Southwest	McCone	2,770	47,422	17.12	1,901,102	6,371,757
Ridgelawn	Richland	654,371	11,229,006	17.16	4,294,896	112,150,096
RipRap Coulee	Roosevelt	40,220	665,239	16.54	457,870	9,894,401
River Bend	Richland	21,029	342,142	16.27	169,607	4,400,484
Rocky Point	Roosevelt	21,455	371,815	17.33	420,048	10,917,248
Rosebud	Rosebud	9,661	156,701	16.22	439,071	6,844,395
Royals	Dawson	19,732	345,902	17.53	237,469	6,809,051
Rudyard	Hill	1,255	21,021	16.75	14,840	303,670
Runaway	Teton	147	2,305	15.68	3,798	110,455
Rush Mountain	Sheridan	17,494	309,294	17.68	543,126	5,632,385
Salt Lake	Sheridan	93,627	1,645,026	17.57	481,882	5,679,878
Sand Creek	Dawson	13,456	234,269	17.41	2,342,800	11,718,621
Second Creek	Richland	38,286	650,096	16.98	1,124,530	18,095,095
Shepherd	Musselshell	1,777	28,574	16.08	76,004	1,264,824
Shotgun Creek	Roosevelt	41,754	721,927	17.29	300,160	5,331,581
Sidney	Richland	115,967	2,027,103	17.48	2,822,420	56,544,852
Sidney, East	Richland	28,613	499,011	17.44	489,904	14,794,130
Singletree	Roosevelt	12,680	201,358	15.88	271,971	6,006,676
Sioux Pass	Richland	112,039	1,854,245	16.55	3,022,690	49,751,755
Sioux Pass, East	Richland	6,496	107,704	16.58	80,188	1,481,026
Sioux Pass, Middle	Richland	62,525	1,068,552	17.09	1,261,229	29,434,717
Sioux Pass, North	Richland	177,526	3,046,346	17.16	3,242,237	76,033,224
Sioux Pass, South	Richland	21,392	371,365	17.36	186,214	4,863,907
Snoose Coulee	Liberty	503	7,802	15.51	1,181	29,659
Snyder	Big Horn	2,248	29,831	13.27	455,551	1,754,860
Soap Creek	Big Horn	49,411	571,191	11.56	2,511,493	16,556,843
Soap Creek, East	Big Horn	11,055	143,052	12.94	118,318	2,190,864
South Fork	Richland	44,014	749,118	17.02	864,059	17,280,111
Spring Lake	Richland	31,350	522,918	16.68	877,916	6,858,668
Spring Lake, South	Richland	8,833	129,315	14.64	98,792	2,729,559
Spring Lake, West	Richland	7,470	130,725	17.50	23,352	404,569
Stampede	Richland	14,382	236,584	16.45	222,365	6,102,086
Stensvad	Musselshell, Rosebud	20,205	334,191	16.54	10,109,080	27,899,440
Studhorse	Garfield	22,135	330,254	14.92	156,790	3,544,302
Sumatra	Rosebud	461,075	7,709,174	16.72	42,486,205	301,568,222
Sunnyhill	Sheridan	7,588	126,340	16.65	206,622	5,257,603
Sunnyhill, West	Sheridan	17,444	292,361	16.76	106,502	2,407,179
Target	Roosevelt	36,028	616,439	17.11	533,957	14,258,311
Thirty Mile	Blaine	1,317	16,634	12.63	5,399	105,292
Three Buttes	Richland	31,051	534,388	17.21	302,389	8,319,517
Tippy Buttes	Musselshell	2,753	44,488	16.16	120,130	3,518,540
Tule Creek	Roosevelt	60,588	1,011,214	16.69	7,982,562	40,274,117
Tule Creek, East	Roosevelt	5,631	94,995	16.87	2,008,360	7,082,723
Tule Creek, South	Roosevelt	24,432	383,094	15.68	860,661	6,551,975

FIELD	COUNTY	PRODUCTION YEAR 1987			CUMULATIVE TO DECEMBER 31, 1987	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Two Waters	Richland.....	16,292	279,897	17.18	145,663	4,126,694
Utopia	Liberty	40,839	677,927	16.60	514,176	11,380,605
Vaux.....	Richland.....	368,690	6,311,973	17.12	2,961,816	68,690,214
Vida.....	McCone.....	2,112	35,693	16.90	264,988	1,192,054
Volt	Roosevelt.....	77,404	1,299,613	16.79	2,887,939	23,991,879
Wakea	Sheridan.....	318,458	5,506,139	17.29	1,490,231	30,826,563
Weed Creek.....	Yellowstone.....	1,697	27,288	16.08	601,454	2,549,067
West Butte.....	Toole	5,506	91,400	16.60	285,599	2,902,814
Whitlash.....	Liberty, Toole.....	63,953	1,080,166	16.89	5,159,862	46,628,831
Whitlash, West	Toole	5,747	100,113	17.42	108,783	1,597,413
Willow Creek, North	Musselshell	11,819	196,550	16.63	322,975	3,117,675
Willow Ridge	Toole	2,430	42,646	17.55	42,190	1,013,048
Willow Ridge, South	Toole	79	1,435	18.16	3,267	102,156
Wills Creek, South	Fallon.....	22,031	350,073	15.89	1,052,398	8,473,454
Windmill	Richland.....	5,169	89,889	17.39	11,200	279,906
Winnett Junction	Musselshell	31,678	509,699	16.09	840,648	15,596,288
Wolf Springs.....	Yellowstone.....	19,591	302,877	15.46	4,658,372	14,220,202
Wolf Springs, South	Yellowstone.....	96,169	1,536,781	15.98	712,577	14,352,141
Woodrow	Dawson.....	13,714	236,292	17.23	1,128,871	5,730,991
Wrangler	Sheridan.....	43,937	739,460	16.83	403,771	11,319,579
Wrangler, North.....	Sheridan.....	5,417	85,643	15.81	99,639	3,142,150
Wright Creek	Powder River.....	7,961	153,488	19.28	274,340	3,197,534
Yates	Wibaux	9,020	151,897	16.84	53,902	1,471,751
Misc. Inactive Fields				13,328,975	87,497,081
TOTALS.....		25,104,049	417,282,850	16.62	1,251,556,608	9,599,898,282

*Average price calculated from data provided by the Montana Department of Revenue.

MISCELLANEOUS INACTIVE FIELDS AS OF DECEMBER 31, 1987

FIELD	BARRELS	VALUE	FIELD	BARRELS	VALUE
Ace High	3,686	45,448	Mason Lake, North	17,923	442,087
Agawan	79	2,259	McCabe, East	6,805	205,642
Alkali Coulee	19,546	635,465	McCabe, South	6,599	208,261
Andes	21,175	646,333	Meander	3,761	99,571
Antelope, North	2,484	85,522	Midby	70,172	2,300,577
Anvil, North	9,446	330,277	Miners Coulee	152,152	1,129,578
Autumn	35,546	1,125,986	Otter Creek	28,492	959,881
Bascom	27,830	65,674	Pasture	2,869	90,868
Big Gully, North	23,952	535,803	Pasture Creek	1,914	62,789
Big Wall, North	7,218	116,302	Phantom	43,585	757,070
Blackfoot, East	810	1,730	Pine, East	19,349	233,378
Blue Hill	162,251	3,110,843	Plentywood	22,830	711,421
Boulder	156,754	2,530,800	Pole Creek	169,726	277,956
Bredette	232,121	2,062,125	Police Coulee	14	189
Bredette, North	488,554	1,160,009	Poplar, Southeast	162,546	1,093,017
Buffalo Lake	936	26,493	Raymond, Northeast	120,687	1,721,719
Burget	6,504	228,647	Red Water	52,023	1,521,507
Burns Creek, South	79,958	2,279,384	Richey, East	10,386	333,467
Butchers Creek	579	20,259	Richey Area, West	11,062	403,670
Bynum	5,971	15,320	Roscoe Dome	15,556	348,482
Cadmus	1,173	3,381	Rough Creek	3,599	10,583
Canadian Coulee	1,150	27,573	Royals, South	3,082	101,400
Clark Fork, North	1,024,608	2,895,208	Saturn	23,282	465,113
Clark Fork, South	80,553	634,021	Scobey	3,916	145,674
Corner Pocket	14,483	353,729	Shotgun Creek, North	89,647	1,564,569
Cow Creek	127,813	1,304,283	Smoke Creek	100,305	221,361
Culbertson	175,652	1,134,101	Snowden	1,938	70,607
Deadman's Coulee	264,528	8,048,112	Stampede, North	4,566	136,865
Dean Dome	92,445	1,534,865	Two Medicine Creek	10,249	370,951
Dugout Coulee	66,740	2,205,099	Viking	160	1,957
Dunkirk, North	19	498	Wagon Box	32,379	575,263
Epworth	55,142	1,909,226	Wagon Trail	43,321	1,297,560
Four Buttes	41,067	122,184	Weldon	7,050,531	20,454,760
Gage, Southwest	16,289	37,397	West Fork	6,671	229,773
Gettysburg	304	11,987	Wibaux	23,580	42,945
Glendive, South	68,936	2,009,079	Wolf Creek	1,979	2,275
Goose Lake, East	4,522	168,087	Woman's Pocket	3,526	7,461
Grandview	9,784	196,936	Yellowstone	39,405	72,518
Grebe	890	25,371	Wildcat, Carbon County	6,368	13,559
Green Coulee, East	62,942	1,741,899	Wildcat, Daniels County	3,508	7,787
Hawk Haven	7,392	236,689	Wildcat, Dawson County	1,489	42,127
Hibbard	215,904	1,978,565	Wildcat, Fallon County	10,683	29,485
Homestead	303	8,726	Wildcat, Garfield County	468	13,166
Jack Creek	1,310	3,275	Wildcat, Glacier County	48,231	124,918
Kicking Horse	1,526	48,566	Wildcat, Hill County	405	8,831
Kippen, East	150	4,815	Wildcat, Liberty County	3,254	19,148
Krug Creek	15,288	538,314	Wildcat, McCone County	12,575	41,467
Lake Basin	473,639	661,111	Wildcat, Musselshell County	925	1,841
Lakeside	487	18,489	Wildcat, Powder River County	27,445	65,594
Lambert, North	36,552	1,221,300	Wildcat, Richland County	339,856	818,099
Lariat	3,599	123,587	Wildcat, Roosevelt County	86,968	259,956
Laurel	1,017	36,458	Wildcat, Sheridan County	52,561	571,834
Ledger	275	7,948	Wildcat, Stillwater County	11,283	13,365
Line Coulee	57,789	138,495	Wildcat, Teton County	9,324	19,667
Lisk Creek	1,939	70,297	Wildcat, Toole County	36,379	128,683
Lone Rider	5,903	194,397	Wildcat, Valley County	447	6,034
Lost Creek	1,534	42,905	Wildcat, Wibaux County	8,388	25,416
Mackay Dome	77,334	1,538,558			
Malcolm Creek	11,450	353,129			
TOTALS			TOTALS	13,301,819	86,668,187

1987 WELL COMPLETIONS

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL
							Oil B/D	Gas MCF/D
Beaverhead - 001								
Amoco Prod. Co., 21-12S-10W, McKnight Canyon 1	6	21012	Wildcat		06/20/86	16,000	0	0
Marathon Oil Co., 20-12S-5W, M-39477 1-20	6	21014	Wildcat		10/14/87	7,711	0	0
Big Horn - 003								
Presidio Expl., Inc., 6-6S-36E, Firebear 10-6	3	21197	Lodge Grass		01/21/87	6,534	0	0
Presidio Expl., Inc., 21-6S-36E, Crow 4-21	3	21198	Lodge Grass		02/19/87	6,550	0	0
Wiggs, Guy, 16-1S-32E, Kincaid 16-1	2	21169	Toluca	Frontier	04/04/83	1,378	0	20
Wiggs, Guy, 22-1S-32E, Herman 22-1	2	21170	Toluca	Frontier	04/02/83	1,250	0	28
Wiggs, Guy, 24-1S-32E, Herman 24-1	2	21172	Toluca	Frontier	04/01/83	1,251	0	20
Blaine - 005								
Brown, J. Burns Oper. Co., 22-32N-18E, Krebs 22-32-18	2	22423	Tiger Ridge		05/15/87	1,384	0	0
LYTM Co., Inc., 5-35N-22E, Bevolden 7-5	6	22421	Wildcat		04/28/87	5,130	0	0
LYTM Co., Inc., 15-34N-24E, Modic 11-15	6	22422	Wildcat		05/07/87	4,760	0	0
Norfolk Energy, Inc., 7-26N-18E, Biebinger 7-14	3	22424	Sherard		06/30/87	2,020	0	0
Norfolk Energy, Inc., 32-32N-18E, Staff 32-16	2	22425	Tiger Ridge	Eagle	07/01/87	1,600	0	963
Norfolk Energy, Inc., 11-30N-17E, Blackwood 11-4	2	22426	Tiger Ridge	Eagle	07/04/87	1,650	0	115
Norfolk Energy, Inc., 36-32N-17E, State 36-16	2	22427	Tiger Ridge	Eagle	06/29/87	1,600	0	906
Norfolk Energy, Inc., 26-25N-18E, US 26-14	2	22428	Sherard	Eagle	06/25/87	1,950	0	1,500
Norfolk Energy, Inc., 9-25N-19E, Magda 9-3	3	22437	Sherard Unit		12/16/87	1,780	0	0
Norfolk Energy, Inc., 2-25N-19E, US 2-9	3	22438	Sherard Unit		12/16/87	1,850	0	0
Xeno, Inc., 35-36N-19E, Battle 16-35	2	22430	Battle Creek	Eagle	08/06/87	1,920	0	170
Xeno, Inc., 34-36N-19E, Battle 12-34	2	22431	Battle Creek	Eagle	08/02/87	1,800	0	369
Xeno, Inc., 29-36N-19E, Battle 2-29	2	22432	Battle Creek	Eagle	07/31/87	1,800	0	552
Xeno, Inc., 20-36N-19E, Battle 11-20	2	22433	Battle Creek	Eagle	07/27/87	1,800	0	1,756
Xeno, Inc., 33-36N-19E, Battle 13-33	2	22434	Battle Creek	Eagle	07/29/87	1,800	0	710
Xeno, Inc., 2-35N-19E, Chouteau 9-2	2	22435	Battle Creek	Eagle	08/04/87	1,865	0	611
Carbon - 009								
Amoco Prod. Co., 28-9S-23E, NW Elk Basin 8	1	21214	Elk Basin, NW	Madison	10/30/87	6,746	44	0
Amoco Prod. Co., 28-9S-23E, NW Madison 9	1	21215	Elk Basin, NW	Tensleep	12/07/87	7,248	10	0
Amoco Prod. Co., 28-9S-23E, NW Madison 10	1	21216	Elk Basin, NW	Madison	08/02/87	6,900	93	0
Amoco Prod. Co., 29-9S-23E, NWEB Madison 11	1	21217	Elk Basin, NW	Madison	08/29/87	6,778	250	0
Montana Power Co., 4-7S-21E, Federal 12-4	2	05189	Dry Creek	Frontier	02/22/87	5,450	0	0
Montana Power Co., 4-7S-21E, Bowman Fee 8-4	2	21068	Dry Creek	Frontier	04/10/86	4,860	0	1,200
Montana Power Co., 2-7S-21E, Chapman 13-2	3	21165	Dry Creek	Virgelle	06/06/84	5,084	0	0
Montana Power Co., 11-7S-22E, Gaudina 13-11	2	21213	Golden Dome	Frontier	03/31/87	6,180	0	2,000
Tudex Petroleum Inc., 2-4S-24E, Langstaff 2-K	6	21211	Wildcat		09/30/86	1,435	0	0
Cascade - 013								
Nyvatec Montana Corp., 27-22N-1E, Neuman 27-1	6	21039	Wildcat		04/11/86	1,360	0	0
Nyvatec Montana Corp., 26-20N-2E, Friedman 26-1	6	21040	Wildcat		04/06/86	1,215	0	0
Nyvatec Montana Corp., 26-20N-2E, Friedman 26-1XD	6	21043	Wildcat		05/04/86	3,760	0	0
Nyvatec Montana Corp., 27-22N-1E, Neuman 27-3	6	21044	Wildcat		05/22/86	1,385	0	0
Nyvatec Montana Corp., 27-22N-1E, Neuman 27-4	6	21045	Wildcat		05/30/86	1,406	0	0
Nyvatec Montana Corp., 27-22N-1E, Neuman 27-2	6	21046	Wildcat		05/16/86	1,370	0	0
Nyvatec Montana Corp., 24-20N-2E, RSGL 24-31	6	21048	Wildcat		09/21/86	3,700	0	0
Nyvatec Montana Corp., 27-22N-1E, Neuman 27-5	6	21049	Wildcat		09/28/86	1,354	0	0
Chouteau - 015								
Brown, J. Burns Oper. Co., 19-26N-17E, Shubat 19-26-17	6	21649	Wildcat		07/07/87	1,605	0	0
Exxon Corp., 8-25N-3E, George Gemar 8-1	8	21639	Wildcat		10/24/86	1,872	0	0
Exxon Corp., 17-25N-3E, Pugh Rossmiller 17-1	6	21640	Wildcat		08/10/87	1,770	0	0
Louisiana Land and Expl., 10-29N-11E, Federal 41-1	6	21644	Wildcat		12/17/87	4,960	0	0
Montana Power Co., 20-27N-14E, State 5-20	5	21646	Wildcat	Virgelle	01/14/87	1,200	0	150
Montana Power Co., 32-27N-14E, State 11-32	6	21647	Wildcat		05/13/87	1,325	0	0
Montana Power Co., 17-27N-14E, State 12-17	3	21651	Little Creek		09/02/87	1,207	0	0
SV Limited, 7-25N-3E, Maurer 1-7	6	21650	Wildcat		08/07/87	1,806	0	0

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL
							Oil B/D	Gas MCF/D
Dawson - 021								
Robinson Resource Dev., 11-19N-53E, Cranston 21-11	1	21112	Bloomfield, East	Interlake	02/20/87	11,280	80	15
Robinson Resource Dev., 11-19N-53E, Slemaker 23-11	1	21115	Bloomfield	Red River	11/12/87	11,184	25	10
Shell Western E&P Inc., 26-15N-54E, 34X-26 SWD	7	21111	Glendive		03/24/87	4,800	0	0
Shell Western E&P Inc., 26-15N-54E, Lloyd 1 44X-26	1	21114	Glendive	Red River	05/05/87	9,138	303	65
Texaco Inc., a Delaware Corp., 6-16N-54E, J.M. Elper 2	1	21116	Woodrow	Interlake	10/13/87	10,150	172	18
Texaco Inc., a Delaware Corp., 36-15N-54E, MT State D 6	1	21117	Glendive	Red River	12/23/87	9,134	38	0
Fallon - 025								
Cenergy Expl. Co., 31-9N-59E, Cenergy Krik 12-31	3	21389	Monarch		08/29/85	9,040	0	0
Meridian Oil, Inc., 11-6N-60E, MOI 42-11	1	21190	Lookout Butte East	Lodgepole	02/07/87	8,960	119	27
Meridian Oil, Inc., 13-6N-60E, MDU/MOI 21-13	1	21434	Lookout Butte East	Red River	10/01/87	8,985	32	0
Shell Western E&P Inc., 2-8N-59E, Unit 44-2	7	21394	Pennel		08/25/87	9,200	0	0
Shell Western E&P Inc., 4-8N-59E, Unit (USA) 13-4R	3	21395	Pennel		07/13/85	949	0	0
Shell Western E&P Inc., 16-5N-59E, State 31-16	6	21407	Wildcat		04/23/86	10,353	0	0
Shell Western E&P Inc., 19-4N-62E, Unit 33-19R	1	21411	Little Beaver	Red River	01/31/87	8,602	81	6
Shell Western E&P Inc., 29-10N-58E, BNRR 44X-29	1	21412	Cabin Creek	Red River	03/13/87	9,048	244	91
Shell Western E&P Inc., 8-4N-62E, Billings 31X-08	1	21414	Little Beaver, East	Red River	01/02/87	8,477	81	11
Shell Western E&P Inc., 36-8N-59E, State 12X-36	1	21415	Pennel	Siluro-Ord	02/03/87	8,981	153	25
Shell Western E&P Inc., 12-7N-59E, Unit 33-12A	1	21416	Pennel	Siluro-Ord	02/03/87	8,859	85	38
Shell Western E&P Inc., 13-4N-61E, Unit 8-B 11X-13	1	21418	Little Beaver	Red River	05/21/87	8,627	120	3
Shell Western E&P Inc., 11-6N-60E, Unit 13-11	1	21421	Lookout Butte	Red River	07/30/87	8,988	85	6
Shell Western E&P Inc., 25-8N-59E, Unit 12X-25	1	21422	Pennel	Red River				
				Stoney Mtn	07/24/87	8,957	144	17
Shell Western E&P Inc., 19-8N-60E, Unit 13-19C	7	21423	Pennel		06/29/87	9,113	0	0
Shell Western E&P Inc., 24-8N-59E, Unit 14X-24	1	21424	Pennel	Red River				
				Stoney Mtn	10/23/87	8,969	45	5
Shell Western E&P Inc., 24-8N-59E, Unit 24X-24	1	21425	Pennel	Red River				
				Stoney Mtn	08/13/87	9,007	75	24
Shell Western E&P Inc., 24-8N-59E, Unit 31-24	1	21426	Pennel	Red River	08/31/87	9,120	49	12
Shell Western E&P Inc., 4-7N-60E, Unit 13-4B	7	21427	Pennel		10/21/87	9,260	0	0
Shell Western E&P Inc., 24-8N-59E, Unit 33X-24	1	21428	Pennel	Red River	11/10/87	9,070	23	5
Shell Western E&P Inc., 13-8N-59E, Unit 33-13	1	21429	Pennel	Red River	10/02/87	9,126	122	28
Shell Western E&P Inc., 29-5N-61E, Unit 31-29	1	21430	Little Beaver	Red River	10/13/87	8,607	25	0
Shell Western E&P Inc., 15-8N-59E, Unit 33-15	1	21431	Pennel	Red River	10/16/87	8,937	150	20
Shell Western E&P Inc., 20-8N-60E, Unit 13-20C	7	21432	Pennel		12/29/87	9,194	0	0
Shell Western E&P Inc., 19-4N-62E, Unit 31X-19	3	21433	Little Beaver		07/28/87	7,658	0	0
Shell Western E&P Inc., 25-8N-59E, Unit 31-25R	7	21435	Pennel	Red River	09/24/87	9,039	0	0
Shell Western E&P Inc., 13-4N-61E, Unit 8B 44-13R	1	21436	Little Beaver	Red River	11/02/87	8,595	91	0
Shell Western E&P Inc., 14-6N-60E, Unit 11-14	1	21437	Lookout Butte	Red River	11/18/87	9,000	30	3
Shell Western E&P Inc., 10-6N-60E, Unit 42-10R	1	21438	Lookout Butte	Red River	12/09/87	8,994	57	6
Shell Western E&P Inc., 22-8N-59E, Unit 22-22	1	21439	Pennel	Red River	12/18/87	8,926	13	1
Shell Western E&P Inc., 10-6N-60E, Unit 11-10	1	21443	Lookout Butte	Red River	12/30/87	8,965	66	4
Wesco Operating, Inc., 30-9N-60E, Schweigert 14-30	1	21330	Cupton	Red River	05/13/87	9,785	7	0
Williston Basin Int. Pip. 19-4N-62E, BN Relief Well 450	7	21449	Cedar Creek		12/07/87	1,636	0	0
Fergus - 027								
Cone & Petree Oil & Gas, 4-16N-23E, Brandt 1	6	21219	Wildcat		09/13/87	4,848	0	0
Cone & Petree Oil & Gas, 6-16N-23E, Brandt 2	6	21220	Wildcat		09/20/87	2,650	0	0
Hughes Texas Petroleum, Ltd., 1-16N-22E, Eileen Brandt 1	6	21218	Wildcat		10/20/86	4,840	0	0
Gallatin - 031								
Sohio Petroleum Co., 1-2S-6E, Moats 1-3	6	21002	Wildcat		06/30/86	14,040	0	0
Glacier - 035								
Bacon, J. R. Drilling, Inc., 36-32N-6W, SWCBSU 96-W8	7	21778	Cut Bank		11/10/87	3,131	0	0
Bacon, J. R. Drilling, Inc., 36-32N-6W, SWCBSU 96-6	1	21779	Cut Bank	Cut Bank	09/28/87	3,158	8	0
Bacon, J. R. Drilling, Inc., 36-32N-6W, SWCBSU 97-W2	7	21780	Cut Bank		10/20/87	3,118	0	0
Gypsy Highview Gathering System, 7-37N-5W, Lozing 1	8	21718	Blackfoot, East	Cut Bank	12/19/84	3,370	0	0
Gypsy Highview Gathering System, 7-37N-5W, Weiss 7-3	8	21719	Blackfoot, East	Cut Bank	01/23/85	3,400	0	0
Gypsy Highview Gathering System, 7-37N-5W, Losing 7-2	8	21726	Blackfoot, East	Cut Bank	03/20/85	3,430	0	0
Montana Power Co., 24-34N-5W, Delaney Unit 13-24	2	21764	Cut Bank		04/25/87	2,629	0	150
Monte Grande Expl., Inc., 11-37N-5W, Ralph Swensen 11-1	8	21665	Graben Coulee		03/21/87	2,790	0	0

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL
							Oil B/D	Gas MCF/D
Terra Resources, Inc., 1-36N-6W, Brindley 6	1	21782	Cut Bank	Madison	10/04/87	3,278	1	0
Union Oil Co. of CA, 19-33N-5W, SCCBSU 57-5	7	21765	Cut Bank		11/03/87	3,045	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 49-11	7	21766	Cut Bank		11/05/87	3,178	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 38-9	7	21767	Cut Bank		11/04/87	3,105	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 38-10	7	21768	Cut Bank		10/15/87	3,080	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 49-5X	7	21769	Cut Bank		10/29/87	3,116	0	0
Union Oil Co. of CA, 19-33N-5W, SCCBSU 49-8X	7	21770	Cut Bank		10/30/87	3,181	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 49-9	7	21771	Cut Bank		11/05/87	3,170	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 49-10	7	21772	Cut Bank		10/30/87	3,125	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 61A-8	1	21773	Cut Bank	Cut Bank	10/16/87	3,085	0	0
Union Oil Co. of CA, 13-33N-6W, SCCBSU 54-7	7	21774	Cut Bank		11/03/87	3,100	0	0
Union Oil Co. of CA, 13-33N-6W, SCCBSU 54-8	7	21775	Cut Bank		11/01/87	3,110	0	0
Union Oil Co. of CA, 24-33N-6W, SCCBSU 56-5	7	21776	Cut Bank		11/02/87	2,990	0	0
Union Oil Co. of CA, 18-33N-5W, SCCBSU 49-12	7	21781	Cut Bank		11/06/87	3,154	0	0
Wold Oil Properties, 34-32N-6W, Tribal 3426	1	21783	Cut Bank	Cut Bank	12/10/87	3,450	19	0
Wold Oil Properties, 34-32N-6W, Tribal 3425	1	21785	Cut Bank	Cut Bank	10/17/87	3,373	17	0
Hill - 041								
Brown, J. Burns Oper. Co., 33-33N-15E, Robinson 33-33-15	2	22369	Badlands		06/15/87	1,200	0	0
Brown, J. Burns Oper. Co., 13-32N-15E, Sterrett 13-32-15	3	22370	Tiger Ridge		06/05/87	1,225	0	0
Brown, J. Burns Oper. Co., 5-32N-15E, State 5-32-15D	5	22372	Wildcat		06/11/87	1,150	0	0
Brown, J. Burns Oper. Co., 19-33N-14E, Federal 19-33-14	3	22373	Fresno & Area		07/29/87	1,163	0	0
Brown, J. Burns Oper. Co., 19-37N-17E, Beatty 19-37-17	6	22374	Wildcat		08/15/87	1,720	0	0
Brown, J. Burns Oper. Co., 4-34N-16E, Schwartz 4-34-16	6	22376	Wildcat		10/20/87	1,480	0	0
Louisiana Land and Expl., 18-31N-12E, State 12-1	6	22358	Wildcat		11/11/86	5,451	0	0
LYTM Co., Inc., 18-34N-17E, Davis 18-34-17	6	22377	Wildcat		10/31/87	1,486	0	0
Montana Power Co., 22-33N-11E, Murr 7-22	6	22371	Wildcat		06/14/87	3,880	0	0
Norfolk Energy, Inc., 4-31N-17E, Staton 4-3	3	22362	Tiger Ridge		06/25/87	1,550	0	0
Norfolk Energy, Inc., 35-32N-17E, O'Neil 35-13	2	22363	Tiger Ridge	Eagle	07/11/87	1,600	0	1,285
Norfolk Energy, Inc., 9-30N-15E, Golie 9-4	2	22364	Tiger Ridge	Eagle	07/21/87	1,400	0	337
Norfolk Energy, Inc., 24-31N-14E, Becker 24-1	2	22365	Tiger Ridge	Eagle	07/13/87	1,400	0	690
Norfolk Energy, Inc., 20-31N-15E, Dahlin 20-9	2	22366	Tiger Ridge	Eagle	07/16/87	1,465	0	695
Norfolk Energy, Inc., 31-32N-15E, Sands 31-1	2	22367	Tiger Ridge	Eagle	07/11/87	1,300	0	1,152
Norfolk Energy, Inc., 23-30N-15E, Nystrom 23-4	2	22368	Tiger Ridge	Eagle	07/24/87	1,856	0	740
Liberty - 051								
Branch, Jerry L., 18-35N-4E, Pletsch 1-18	5	21663	Wildcat	Rierdon	09/07/87	2,802	0	270
Great Northern Drilling Co., 18-37N-6E, Federal A 12-18	3	21664	Sage Creek		10/12/87	3,040	0	0
Madison - 057								
Helis, Est. of William G., 27-85-5W, Conley Ranch 1-27	6	21004	Wildcat		05/11/84	3,263	0	0
Helis, Est. of William G., 27-85-1E, Boomhower 1-27	6	21007	Wildcat		07/08/84	6,382	0	0
Musselshell - 065								
Bass Enterprises Prod. Co, 14-11N-27E, First CC 14-31	6	21768	Wildcat		10/20/87	3,700	0	0
Beartooth Oil & Gas Co., 30-10N-27E, Chris Lackey 1	6	21752	Wildcat		10/20/86	3,800	0	0
BHP Petroleum (Americas) Inc., 11-10N-26E, BN Fee 10-11	6	21746	Wildcat		09/26/86	3,360	0	0
BHP Petroleum (Americas) Inc., 8-11N-30E, Cotter 4-8	1	21758	Ragged Point	Tyler	07/20/87	3,560	48	0
Conoco Inc., 23-11N-26E, Eliasson 23 1	6	21759	Wildcat		06/16/87	3,950	0	0
CSX Oil & Gas Corp., 28-10N-28E, Goffena 31-28	6	21769	Wildcat		10/25/87	4,575	0	0
Mallon Oil Co., 34-9N-24E, Kindlemann 11-34	1	21762	Mason Lake	Cat Creek 1	09/07/87	4,240	6	2
Petroleum, Inc., 19-10N-31E, Jennaway 1	6	21770	Wildcat		11/19/87	5,300	0	0
Sun Expl. and Prod., 16-10N-29E, Melstone 1	6	21756	Wildcat		02/25/87	4,303	0	0
Sun Expl. and Prod., 13-11N-29E, BN 1	6	21764	Wildcat		08/07/87	4,200	0	0
Tuck, L. L., 27-11N-30E, Clara 1	6	21763	Wildcat		07/06/87	4,636	0	0
Valero Producing Co., 2-10N-28E, Musselshell 14-2 1	6	21747	Wildcat		10/30/86	4,189	0	0
Valero Producing Co., 8-10N-28E, Munson 42-8 1	6	21748	Wildcat		11/07/86	4,150	0	0
Valero Producing Co., 36-11N-27E, State 44-36 1	6	21751	Wildcat		11/18/86	4,000	0	0
Valero Producing Co., 9-10N-28E, Goffena 21-9 2	1	21757	Wildcat	Tyler	07/18/87	4,200	108	0
Park - 067								
Montana Power Co., 24-55-8E, Hobbs 6-24	6	21009	Wildcat		08/05/85	5,368	0	0

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL
							Oil B/D	Gas MCF/D
Petroleum - 069								
Basso, Lindberg, Westwood, Wol, 32-16N-28E, Lindberg Wadman 1	6	21130	Wildcat		05/29/85	1,815	0	0
Carnell, E. F., 21-15N-30E, Olson-Jensen 4	1	21143	Cat Creek, Mosby Dome	Cat Creek 2	08/26/87	1,600	20	0
Mobil Oil Corp., 30-18N-29E, Fed Dovetail F34-30G	6	21142	Wildcat		05/05/87	7,800	0	0
Pondera - 073								
Bacon, J. R. Drilling, Inc., 35-27N-2E, State 1-35	6	21722	Wildcat		05/19/87	1,004	0	0
Balcron Oil Co., 24-29N-2W, McCracken 18A-24	3	21724	Ledger		07/21/87	960	0	0
Balcron Oil Co., 36-30N-1W, State 2B-36	2	21725	Ledger	Bow Island	07/11/87	1,340	0	263
Balcron Oil Co., 17-29N-1W, McCracken 17A-17	2	21726	Ledger	Bow Island	06/24/87	570	0	0
Balcron Oil Co., 31-29N-1W, Orcutt 1-31	2	21727	Ledger	Bow Island	07/08/87	803	0	131
Balcron Oil Co., 7-29N-1W, McCracken 16A-7	3	21728	Ledger		07/03/87	805	0	0
Balcron Oil Co., 23-29N-2W, Wiperman 1-23	2	21729	Ledger	Bow Island	06/21/87	639	0	90
Balcron Oil Co., 20-29N-1W, McCracken 19A-20	2	21730	Ledger	Bow Island	06/24/87	648	0	6
Balcron Oil Co., 9-29N-1W, Chick 2-9	3	21731	Ledger		07/10/87	1,260	0	0
Balcron Oil Co., 19-29N-1W, Iverson 7-19	2	21732	Ledger	Bow Island	10/26/87	576	0	11
Powder River - 075								
Conoco Inc., 2-9S-49E, Conoco Federal 2 1	6	22201	Wildcat		04/05/87	6,730	0	0
Mitchell Energy Corp., 17-9S-51E, MEC Geer 34-17	6	22202	Wildcat		10/15/87	8,165	0	0
True Oil Co., 25-9S-47E, Oxy-State 34-25	6	22197	Wildcat		04/14/87	6,990	0	0
True Oil Co., 31-9S-51E, Cone Federal 13-31	6	22198	Wildcat		03/07/87	6,490	0	0
True Oil Co., 20-8S-52E, Baxter Federal 44-20	6	22199	Wildcat		03/29/87	5,340	0	0
Powell - 077								
Medallion Oil Co., 13-7N-10W, State 1-13	6	21004	Wildcat		09/07/87	7,648	0	0
Medallion Oil Co., 25-7N-10W, State 1-25	6	21005	Wildcat		12/04/87	9,372	0	0
Richland - 083								
ANR Limited Inc., 5-22N-60E, Morse et al 22-5	1	21762	Mondak, West	Red River	12/03/87	12,978	384	269
ANR Prod. Co., 25-23N-59E, Jackson 5-25	1	21752	Mondak, West	Interlake	01/11/87	12,000	206	127
ANR Prod. Co., 2-21N-58E, Bakken 22-2	1	21758	Crane	Red River				
				Interlake	10/30/87	12,125	719	344
BWAB Incorporated., 35-24N-59E, Asbeck 35-44	1	21755	Ridgelawn	Duperow	05/03/87	10,900	460	549
Cenergy Expl. Co., 27-26N-59E, Rasmussen 31-27	1	21761	Nohly	Nisku	11/21/87	10,750	410	300
Cenex, 16-23N-58E, State 8-16	1	21167	Vaux	Mission Canyon	01/20/87	10,500	153	81
Cenex, 27-23N-58E, Simard 6-27	1	21651	Vaux	Mission Canyon	01/13/87	10,411	115	63
Pennzoil Co., 26-26N-59E, Nohly 3F	1	21753	Nohly	Ratcliffe	02/17/87	10,730	80	27
Slawson, Donald C., Oil Prod., 9-25N-55E, Tiller 1-9	4	21750	Charlie Creek, East**	Duperow	01/12/87	11,950	350	500
Slawson, Donald C., Oil Prod., 13-31N-38E, McGinnis 1-12	6	21754	Wildcat		01/04/87	12,800	0	0
Slawson, Donald C., Oil Prod., 5-25N-59E, Lund 1-5	4	21759	Wildcat	Ratcliffe	11/08/87	12,800	295	141
Slawson, Donald C., Oil Prod., 34-25N-55E, McVay 2-34	6	21760	Wildcat		11/14/87	12,077	0	0
SV Limited, 15-25N-58E, Prather Anvik 1-15	3	21402	Fairview		09/18/87	13,300	0	0
Texaco Inc., a Delaware Corp., 28-25N-59E, South Nohly 28-14X	1	21757	Fairview, East	Stonewall	09/14/87	12,869	170	85
Union Texas Petroleum Corp., 20-25N-56E, Amy Schow 20-1	4	21756	Hardscrabble Creek**	Red River	07/09/87	12,313	102	0
Roosevelt - 085								
ANR Prod. Co., 13-29N-48E, Matejovsky 1	6	21542	Wildcat		10/18/87	7,700	0	0
Atlantic Richfield Co., 31-30N-47E, Toavs 31-1	6	21546	Wildcat		12/24/87	7,650	0	0
Duncan, Raymond T., 15-27N-59E, Wilson 1	6	21535	Wildcat		04/12/87	13,175	0	0
Exxon Corp., 9-28N-46E, Nancy Buck Elk 1	6	21533	Wildcat		12/31/86	6,300	0	0
ITR Petroleum (Delaware), Inc., 20-31N-47E, McLachlan 14-20	6	21534	Wildcat		11/28/86	7,657	0	0
Sun Expl. and Prod., 33-30N-49E, MRA Bardell 1	6	21541	Wildcat		10/04/87	8,150	0	0
Xeno, Inc., 20-30N-48E, Eagle 6-20	3	21536	Tule Creek		03/05/87	7,780	0	0
Xeno, Inc., 24-30N-47E, Houg 7-24	3	21537	Tule Creek		05/29/87	7,780	0	0
Rosebud - 087								
McRae Expl. & Prod., 34-11N-32E, Kincheloe 1	1	21602	Little Beaver	Tyler	10/29/87	4,990	37	0
Meridian Oil, Inc., 20-12N-33E, Hunt 12-20	6	21596	Wildcat		07/20/87	2,435	0	0
Natural Resource Management, 29-6N-42E, Harstad 1	6	21598	Wildcat		11/17/87	2,750	0	0

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL
							Oil B/D	Gas MCF/D
Natural Resource Management, 32-6N-43E, Bott 1	6	21601	Wildcat		10/22/87	3,476	0	0
Smokey Oil Co., 19-11N-33E, Eich 33-19	6	21604	Wildcat		12/31/87	4,960	0	0
Sun Expl. and Prod., 4-9N-36E, Jubilee-Patricia 1	6	21599	Wildcat		09/23/87	4,650	0	0
Tuck, L. L., 23-11N-31E, Stensvad 1	8	21579	Wildcat		11/20/85	4,329	0	0
Tuck, L. L., 11-10N-32E, Sibley 1	6	21595	Wildcat		11/05/86	4,990	0	0
Tuck, L. L., 29-11N-32E, Kincheloe 8-29	6	21597	Wildcat		04/14/87	4,830	0	0
Tuck, L. L., 1-11N-32E, Coffee 23-1	6	21600	Ace High		09/28/87	5,964	0	0
Tuck, L. L., 1-11N-32E, C.M. Coffee 2	6	21603	Ace High		10/29/87	5,956	0	0
Sheridan - 091								
American Hunter Expl., 20-36N-52E, Lund 13-20	6	21620	Wildcat		10/18/87	8,933	0	0
Cenex, 14-36N-52E, Wexels 14-14	3	21590	Outlook		08/06/87	9,100	0	0
Coastal Oil & Gas Corp., 35-35N-58E, Christensen 1	6	21608	Wildcat		02/23/87	10,134	0	0
Conoco Inc., 32-34N-57E, Conoco Erickson 32 1	6	21609	Wildcat		02/28/87	11,463	0	0
Conoco Inc., 2-37N-55E, Sames et al 2 1	6	21616	Wildcat		06/29/87	10,430	0	0
Gary, Samuel Jr. & Associates, 2-33N-58E, Albert Melby 1	3	21102	Brush Lake		10/27/87	11,192	0	0
Ladd Petroleum Corp., 16-33N-58E, State 2A	1	21610	Clear Lake	Ratcliffe	03/03/87	7,830	80	35
Ladd Petroleum Corp., 21-33N-58E, Theusen Sorenson 2	3	21619	Clear Lake		10/10/87	11,330	0	0
Meridian Oil, Inc., 14-34N-58E, Onstad 22-14	4	21615	Divide**	Red River	06/26/87	11,398	334	132
Reef Oil Corp., 13-37N-51E, Irelan-Robinson 1	6	21605	Wildcat		11/15/86	9,000	0	0
Slawson, Donald C., Oil Prod., 5-33N-58E, Clear Lake 1-5	4	21613	Clear Lake**	Red River	06/06/87	11,300	120	59
Slawson, Donald C., Oil Prod., 29-36N-56E, Lee 1-29	6	21622	Wildcat		11/11/87	10,950	0	0
Sun Expl. and Prod., 31-35N-55E, H. Furst 1	6	21607	Wildcat		06/07/87	10,730	0	0
Sun Expl. and Prod., 12-37N-56E, Shirley Joyes 1	1	21612	Salt Lake	Red River	05/27/87	10,295	195	0
Sun Expl. and Prod., 24-33N-55E, Connole Trust 1	6	21614	Wildcat		05/10/87	4,847	0	0
Sun Expl. and Prod., 24-33N-55E, Connole Trust 1A	4	21617	Reserve II***	Red River	09/03/87	11,283	284	0
SV Limited, 4-33N-55E, Lund Ranch 4-32	3	21385	Green Coulee		06/02/87	11,100	0	0
True Oil Co., 12-37N-56E, Joyes-FLB 23-12	1	21606	Salt Lake	Red River	01/13/87	10,554	364	92
Union Texas Petroleum Corp., 5-37N-55E, Daryle Syme 5-1	4	21623	Wildcat	Ratcliffe	11/05/87	6,530	188	2
Wyoming Resources Corp., 1-33N-55E, Murray 1	1	21621	Wakea	Nisku	10/30/87	10,975	152	96
Stillwater - 095								
Energy Rock Inc., 29-4N-20E, Brickley Deep 2	2	21099	Big Coulee	Morrison	05/30/86	3,786	0	200
Energy Rock Inc., 30-1S-22E, Lackman 16-30	5	21200	Wildcat	Telegraph Creek	06/26/85	1,404	0	0
Energy Rock Inc., 29-4N-20E, LeBaron 6-29	6	21210	Wildcat		05/05/86	1,695	0	0
Montana Power Co., 2-3n-20e, Rapelridge 11-2	6	21189	Wildcat		10/23/83	2,350	0	0
West Gas, Inc., 34-1N-21E, Lutgen 3-34	3	21212	Lake Basin		06/01/87	1,550	0	0
West Gas, Inc., 34-1N-21E, Leuthold 9-34	2	21214	Lake Basin	Eagle	11/03/86	1,510	0	50
West Gas, Inc., 34-1N-21E, Leuthold 11-34	2	21215	Lake Basin	Claggert	12/08/86	1,590	0	45
West Gas, Inc., 22-3N-21E, Bradbrook 16A-22	3	21216	Lake Basin		06/22/87	1,386	0	0
West Gas, Inc., 2-1S-21E, Leuthold 1-2	3	21217	Lake Basin		07/26/87	1,566	0	0
West Gas, Inc., 34-2N-21E, Dannenberg 7-34	2	21218	Lake Basin, North	Mowry	10/12/87	4,323	0	100
Sweet Grass - 097								
Energy Rock Inc., 9-3N-18E, Cremer 12-9	2	21040	Little Basin	Claggert	12/01/83	1,060	0	0
Montana Power Co., 33-1S-17E, Jacob Bue 7-33	8	21023	Wildcat	Virgelle	06/19/87	2,400	0	0
Montana Power Co., 2-2S-17E, Booth 8-2	6	21041	Wildcat		01/07/87	4,675	0	0
Montana Power Co., 3-2S-17E, Mysse 7-3	6	21042	Wildcat		12/22/87	4,814	0	0
Teton - 099								
Brown, J. Burns Oper. Co., 20-24N-4W, Airport 1-20	6	21268	Wildcat		06/05/87	2,332	0	0
Mountain States Resources, Inc, 6-27N-6W, Bills Ranch 6-16	8	21237	Bills Coulee	Madison	08/24/84	3,461	0	0
Mountain States Resources, Inc, 3-27N-6W, Ira Perkins 3-6	8	21241	Highview	Madison	10/11/84	3,515	0	0
Nyvatex Montana Corp., 31-23N-1E, Murphy 31-1	6	21263	Wildcat		04/02/86	1,480	0	0
Nyvatex Montana Corp., 31-23N-1E, Murphy 31-2	6	21264	Wildcat		04/20/86	1,462	0	0

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL		
							Oil B/D	Gas MCF/D	
Toole - 101									
Bacon, J. R. Drilling, Inc., 15-35N-3W, USA 2-18	1	22989	Kevin Sunburst	Madison	02/19/87	1,816	3	0	
Bacon, J. R. Drilling, Inc., 15-35N-3W, USA 2-14	1	22993	Kevin Sunburst	Madison	02/19/87	1,831	5	0	
Bacon, J. R. Drilling, Inc., 15-35N-3W, USA 2-15	1	22995	Kevin Sunburst	Madison	03/04/87	1,814	3	0	
Bacon, J. R. Drilling, Inc., 10-35N-3W, Shay Federal 1-42	1	22998	Kevin Sunburst	Madison	02/19/87	1,754	1	0	
Bacon, J. R. Drilling, Inc., 10-35N-3W, USA 1-43	1	23001	Kevin Sunburst	Madison	02/19/87	1,755	1	0	
Bacon, J. R. Drilling, Inc., 10-35N-3W, USA 1-41	1	23003	Kevin Sunburst	Madison	02/19/87	1,842	1	0	
Bacon, J. R. Drilling, Inc., 10-35N-3W, USA 1-38	1	23005	Kevin Sunburst	Madison	03/04/87	1,804	5	0	
Bacon, J. R. Drilling, Inc., 20-35N-3W, Solberg 9	1	23103	Kevin Sunburst	Madison	03/12/87	1,941	3	0	
Bacon, J. R. Drilling, Inc., 20-35N-3W, Solberg 11	1	23104	Kevin Sunburst	Madison	03/09/87	1,964	2	0	
Bacon, J. R. Drilling, Inc., 20-35N-3W, Solberg 12	1	23105	Kevin Sunburst	Madison	03/06/87	1,943	15	0	
Bacon, J. R. Drilling, Inc., 20-35N-3W, Solberg 13	1	23106	Kevin Sunburst	Madison	03/09/87	1,931	2	0	
Bacon, J. R. Drilling, Inc., 20-35N-3W, Solberg 16	1	23107	Kevin Sunburst	Madison	03/06/87	1,917	1	0	
Bacon, J. R. Drilling, Inc., 15-31N-3W, Nadeau 15	2	23183	Marias River	Bow Island	12/04/87	1,270	0	31	
Badger Oil Co., 6-37N-4W, Parker-Macfee 1	3	23157	Cut Bank		09/26/87	2,962	0	0	
Balcron Oil Co., 18-30N-1W, Keil Ranch 4B-18	2	23132	Ledger	Bow Island	06/19/87	1,044	0	121	
Balcron Oil Co., 7-30N-1W, Keil Ranch 3B-7	3	23133	Ledger		06/19/87	1,180	0	0	
Balcron Oil Co., 14-30N-2E, L. Taft 5-14	5	23141	Tiber, East**	Bow Island	07/31/87	781	0	121	
Balcron Oil Co., 2-31N-2E, J. McCarter 1-2	5	23143	Devon, East**	Bow Island	08/21/87	725	0	108	
Balcron Oil Co., 16-31N-2E, Benjamin-State 1-16	5	23144	Tiber**	Bow Island	08/27/87	1,332	0	0	
Balcron Oil Co., 22-31N-2E, Benjamin 2-22	6	23147	Wildcat		08/07/87	955	0	0	
Balcron Oil Co., 33-32N-3E, Ostrem 2-33	2	23150	Devon, East	Bow Island	08/14/87	893	0	108	
Balcron Oil Co., 29-32N-3E, Ostrem 1-29	3	23153	Devon, East		08/26/87	865	0	0	
Balcron Oil Co., 5-31N-3E, Flagge 1-5	2	23178	Galata	Bow Island	11/21/87	785	0	374	
Balcron Oil Co., 15-30N-2E, Peterson 2-15	6	23189	Wildcat		08/05/87	833	0	0	
Berenergy Corp., 36-36N-3W, Dix MT State 2	1	23139	Kevin Sunburst	Sunburst	08/18/87	1,783	1	0	
Berenergy Corp., 36-36N-3W, Dix MT State 2	1	23148	Kevin Sunburst	Sunburst	09/10/87	1,630	22	0	
Berenergy Corp., 36-36N-3W, Dix MT State 4	1	23170	Kevin Sunburst	Sunburst	11/16/87	1,650	20	0	
Berenergy Corp., 36-36N-3W, Dix MT State 5	1	23171	Kevin Sunburst	Sunburst	11/17/87	1,650	25	0	
Berenergy Corp., 36-36N-3W, Dix MT State 6	1	23174	Kevin Sunburst	Sunburst	12/01/87	1,670	35	0	
Berenergy Corp., 36-36N-3W, Dix MT State 7	1	23175	Kevin Sunburst	Sunburst	12/03/87	1,725	33	0	
Berenergy Corp., 36-36N-3W, Dix MT State 8	1	23176	Kevin Sunburst	Sunburst	12/03/87	1,731	1	0	
Berenergy Corp., 36-36N-3W, Dix MT State 9	1	23180	Kevin Sunburst	Sunburst	12/07/87	1,760	20	0	
Berenergy Corp., 36-36N-3W, Dix MT State 10	1	23181	Kevin Sunburst	Sunburst	12/12/87	1,625	30	0	
Berenergy Corp., 36-36N-3W, Dix MT State B 1	8	23182	Kevin Sunburst		12/11/87	1,775	0	0	
Berenergy Corp., 36-36N-3W, Dix MT State 11	8	23184	Kevin Sunburst	Sunburst	12/15/87	1,730	0	0	
Bluejay Resources, Inc., 12-36N-3W, Simmes Ranch 3	6	23102	Wildcat		12/26/86	686	0	0	
Bluejay Resources, Inc., 1-35N-3W, West 1	1	23124	Kevin Sunburst	Sunburst	05/05/87	1,596	15	0	
Bluejay Resources, Inc., 34-36N-4W, Spencer 1	2	23129	Kevin Sunburst	Sunburst	06/03/87	2,670	0	80	
Bluejay Resources, Inc., 34-36N-4W, Woodworth 2-34	2	23167	Kevin Sunburst	Bow Island	10/02/87	1,844	0	130	
Bluejay Resources, Inc., 34-36N-4W, Kashmark 3-34	5	23168	Kevin Sunburst	Bow Island	10/06/87	1,833	0	97	
Bluejay Resources, Inc., 34-36N-4W, Kashmark 4-34	2	23173	Kevin Sunburst	Bow Island	11/11/87	1,822	0	194	
Bluejay Resources, Inc., 27-36N-4W, Adaskavich 1-27	2	23187	Kevin Sunburst	Bow Island	12/17/87	1,811	0	353	
Branch, Jerry L., 27-33N-2W, MDU 8-27	2	23091	Prairie Dell	Bow Island	04/09/87	1,623	0	73	
Branch, Jerry L., 19-33N-2W, Atkins 4-19	2	23120	Prairie Dell	Bow Island					
				Dakota	08/07/87	1,633	0	1,633	
Branch, Jerry L., 23-33N-2W, Flesch 2-23	2	23134	Prairie Dell	Rierdon	08/20/87	1,440	0	303	
Branch, Jerry L., 3-33N-3W, Exxon 6-3	2	23135	Kevin Southwest	Sunburst, Dakota	08/04/87	1,405	0	259	
Branch, Jerry L., 13-33N-3W, Knouse 5-13	2	23136	Kevin Southwest	Dakota	07/12/87	1,593	0	80	
Branch, Jerry L., 4-30N-1E, Westmark 2-4	6	23137	Wildcat		07/30/87	1,225	0	0	
Branch, Jerry L., 29-31N-1E, Grant 1-29	6	23138	Wildcat		08/18/87	645	0	0	
Branch, Jerry L., 23-33N-2W, MPC 13-23	2	23159	Prairie Dell	Bow Island, Swift	09/24/87	1,533	0	73	
Buckley, Michael T., 9-37N-4W, Wilcox 8	1	23162	Cut Bank	Cut Bank	10/04/87	2,679	30	0	
C.R. Energy Corp., 1-35N-3W, Federal 1	3	23154	Kevin Sunburst		08/24/87	1,694	0	0	
C.R. Energy Corp., 1-35N-3W, Federal M-51428 4	1	23165	Kevin Sunburst	Sunburst	10/05/87	1,670	9	0	
Cavalier Petroleum, 7-33N-1W, Billmaier 13-7	2	23155	Prairie Dell	Sunburst	10/28/87	1,323	0	113	
Cenex, 14-37N-2E, Continental 2-14	3	23116	Fred & George Creek		09/22/87	2,743	0	0	
Coolidge, G. B., Inc., 31-35N-1E, Zimmerman Realty 2	2	23125	Kevin, East Nisku Oil	Nisku	05/10/87	2,932	0	847	
Crescent Oil & Gas Corp., 15-32N-2W, McNamer 1-15	2	23047	Old Shelby	Sunburst	04/06/86	1,533	0	185	
Crescent Oil & Gas Corp., 5-32N-2W, Lemmons Estate 5	2	23163	Old Shelby	Sunburst	10/05/87	1,448	0	159	
Croft Petroleum Co., 19-34N-3E, Sun Ag, Inc. 14-19	6	23131	Wildcat		06/12/87	2,070	0	0	

1987 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL	POTENTIAL	
							Oil B/D	Gas MCF/D	
Croft Petroleum Co., 13-34N-2E, Kolstad 7-13	6	23152	Wildcat		09/21/87	2,060	0	0	
Flying J Expl. and Prod., 28-35N-4W, Gladi Metcha 4-28	1	23110	Cut Bank	Madison	01/18/87	2,302	0	0	
Flying J Expl. and Prod., 28-35N-4W, Aetna 5-28	2	23118	Cut Bank	Madison	04/11/87	2,276	0	217	
Fulton Producing Co., 30-36N-3E, R. Parsell 14-30	2	21866	Miners Coulee	Bow Island					
				Sunburst	11/12/81	3,200	0	94	
Fulton, William M., 28-36N-3W, Goeddertz 42X-28	2	23179	Kevin Sunburst	Kootenai	11/26/87	1,503	0	50	
Holt, Sherman & Vivian, 7-34N-2W, Smith 4	1	23115	Kevin Sunburst	Madison	07/12/87	1,549	7	0	
Montana Power Co., 7-33N-4W, Karlberg 5-7	2	23121	Cut Bank	Cut Bank	04/27/87	2,640	0	150	
Montana Power Co., 18-33N-4W, Sumpster 5-18	2	23122	Cut Bank	Bow Island	05/04/87	2,701	0	180	
Montana Power Co., 7-33N-4W, Skierka 13-7	3	23123	Cut Bank		04/26/87	2,629	0	0	
Natural Gas Processing Co., 12-33N-1E, Drake 4-12	2	23096	Devon	Bow Island	11/03/87	926	0	326	
Natural Gas Processing Co., 1-33N-1E, Drake 13-1	2	23100	Willow Ridge, West	Bow Island	11/09/87	920	0	478	
Natural Gas Processing Co., 30-33N-2E, Morse-Wester 16-30	2	23111	Devon	Bow Island	10/26/87	749	0	120	
Natural Gas Processing Co., 5-32N-2E, Bussell 16-5	2	23112	Devon	Bow Island	10/25/87	737	0	79	
Natural Gas Processing Co., 25-33N-1E, Hellingier 1-25	2	23172	Devon	Bow Island	11/04/87	879	0	436	
Natural Gas Processing Co., 36-34N-1E, State 13-36	2	23177	Willow Ridge, West	Bow Island	11/21/87	1,238	0	57	
Ranch Oil Co., Inc., 8-31N-2W, Zell 14 (8-13)	2	22163	Wildcat	Bow Island	11/25/87	1,257	0	166	
Ranck Oil Co., Inc., 34-35N-1E, Turner 1	1	23151	Kevin, East Nisku Oil	Nesson	10/30/87	3,200	2	0	
Rimrock Drilling Co., 7-34N-2W, State 10	1	23126	Kevin Sunburst	Madison	06/01/87	1,505	6	0	
Rimrock Drilling Co., 18-34N-2W, Amigo 1	1	23160	Kevin Sunburst	Madison	10/15/87	1,525	2	0	
Rossmiller, Duard, 2-34N-3W, Ladner-Agen 4-2	2	22352	Kevin Sunburst	Sunburst	04/17/87	1,575	0	211	
SoMont Oil Co., Inc., 25-35N-4W, M-61974 1	2	23130	Kevin Sunburst	Madison	07/14/87	2,017	0	1,500	
SoMont Oil Co., Inc., 34-36N-4W, Glacier Colony 1	2	23156	Kevin Sunburst	Bow Island	09/18/87	1,773	0	100	
Sunburst Expl., Inc., 23-33N-2W, McNamer 1	2	23158	Kevin Sunburst	Bow Island, Swift	10/06/87	217	0	217	
Teague Geological, Inc., 2-36N-3E, Myrtle Johnson 1	3	23128	Trail Creek		06/02/87	2,958	0	0	
Walls, Adrian G., 31-32N-2W, Davidson 1	5	21291	Wildcat	Bow Island	05/21/87	1,298	0	400	
Walls, Adrian G., 24-33N-2W, Houdek 1-24	2	23093	Old Shelby	Swift, Sunburst	12/01/86	1,386	0	194	
Walls, Adrian G., 22-34N-1W, McNamer 14-22	2	23109	Kevin Sunburst	Bow Island	01/07/87	1,335	0	156	
Walls, Adrian G., 22-34N-1W, McNamer 9-22	2	23113	Kevin Sunburst	Bow Island	01/11/87	1,390	0	166	
Walls, Adrian G., 23-34N-1W, Rierdon 14-23	2	23114	Kevin Sunburst	Bow Island	01/19/87	1,424	0	80	
Walls, Adrian G., 12-33N-2W, Chevron 1-12	2	23164	Prairie Dell	Swift	10/26/87	1,353	0	860	
Valley - 105									
Beartooth Oil & Gas Co., 23-30N-45E, Redekopp 1	6	21408	Wildcat		03/09/87	7,210	0	0	
Exxon Corp., 13-31N-38E, Lime Creek Federal 1	6	21406	Wildcat		11/08/86	4,745	0	0	
Exxon Corp., 12-35N-43E, Panther State 1	6	21407	Wildcat		12/21/86	6,950	0	0	
Wibaux - 109									
Fulton Fuel Co., 34-14N-60E, Morman 34-34	3	21066	Black Diamond		08/04/87	10,250	0	0	
Yellowstone - 111									
Barrett Energy Co., 35-7N-32E, White 4	3	21208	Wolf Springs, South		01/13/87	6,075	0	0	
Basso, Lindberg, Westwood, Wol, 29-35-25E, Larson 1	6	21190	Wildcat		12/15/85	1,021	0	0	
Basso, Lindberg, Westwood, Wol, 36-35-24E, Basso 1	6	21210	Wildcat		06/13/87	1,045	0	0	
Basso, Lindberg, Westwood, Wol, 29-35-25E, Larson 2	6	21211	Wildcat		09/14/87	1,036	0	0	
Basso, Lindberg, Westwood, Wol, 36-35-24E, State 2	6	21212	Wildcat		10/02/87	1,029	0	0	
Gary Drilling Co., 3-6N-32E, Botts 1-3	1	21176	Wolf Springs, South	Amsden	07/16/86	6,111	4	0	
R & J Prod., Inc., 27-35-24E, Krug 4	6	21184	Wildcat		07/20/85	1,015	0	0	
R & J Prod., Inc., 26-35-24E, Mosser 13	1	21197	Mosser Dome	Mosser Sand	07/10/86	1,000	3	0	
R & J Prod., Inc., 27-35-24E, Art Ouren 1	3	21202	Mosser Dome		08/19/86	1,020	0	0	
Rocky Mountain Oilfinders Inc., 35-7N-32E, Ethel White 3	3	21180	Wolf Springs, South		08/25/85	6,125	0	0	
VSM Development Co., 4-7N-31E, Maart 1	3	21181	Weed Creek		05/22/85	6,445	0	0	

Status Codes:

1 - development oil well;
 2 - development gas well;
 3 - development dry hole;
 4 - exploratory oil well;
 5 - exploratory gas well;
 6 - exploratory dry hole;
 7 - service well;
 8 - other (usually temp. aband.)

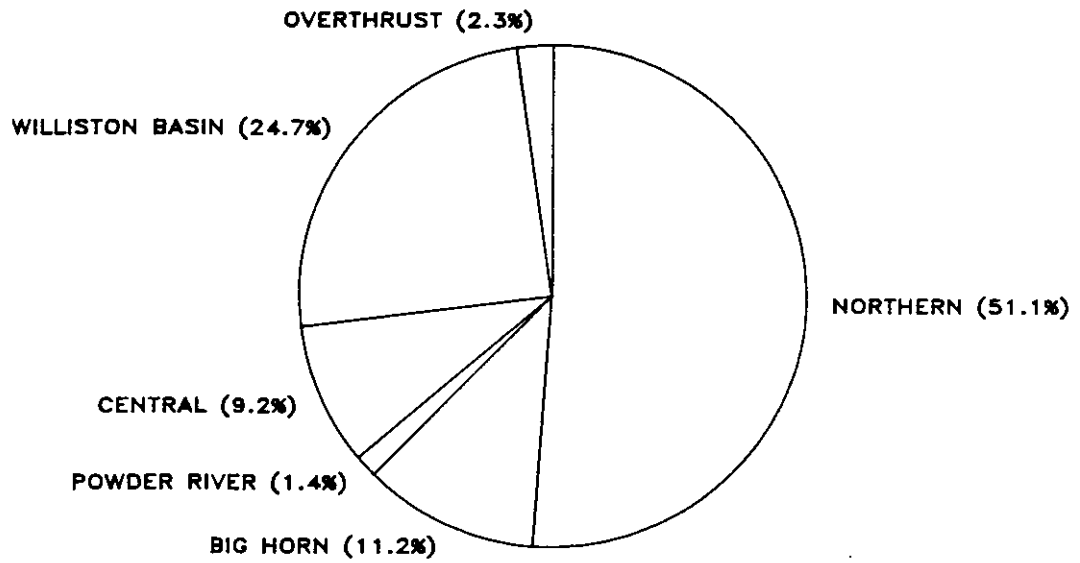
* - new pay zones

** - extensions

*** - new discovery

1987 WELLS COMPLETED

(348 WELLS - BY REGION)



1987 SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1987			Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	
Ash Creek Crow Tribe	Shannon	Mobil	Waterflood	Peripheral	10/64	256	—	—	Idle
Ash Creek SU (MT)	Shannon	Pecos Development	Waterflood	Peripheral	10/64	1,299	66	2	WSW & Produced
Bell Creek Tertiary	Muddy	Gary Energy	Polymer In	5 Spot	12/80	54,407	15,576	20	Surface
Bell Creek A	Muddy	Gary Energy	Waterflood	Peripheral	4/70	262,043 *	34,537	46	Madison
Bell Creek B	Muddy	Gary Energy	Waterflood	Peripheral	10/70	54,602	4,413	8	Madison
Bell Creek C	Muddy	Gary Energy	Waterflood	Peripheral	9/71	37,768	5,367	4	Madison
Bell Creek D	Muddy	Gary Energy	Waterflood	Peripheral	1/72	38,191	2,373	8	Madison
Bell Creek E	Muddy	Gary Energy	Waterflood	Peripheral	1/72	32,569	2,414	11	Madison
Bell Creek Ranch Creek	Muddy	Gary Energy	Waterflood	Peripheral	3/71	44,790	—	—	Idle
Big Wall BWUTSU	Upper Tyler	Texaco	Waterflood	Random	8/66	35,995	2,244	1	Produced
Big Wall BWL TSU	Lower Tyler	Texaco	Waterflood	Random	10/84	11,942	6,310	3	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	2,777	658	3	Madison
Border, New	Cut Bank	P&M Petroleum	Waterflood	Random	1/82	—	—	—	Idle
Border, Old	Cut Bank	Gypsy Highview	Waterflood	Random	6/73	1,836	276	1	Madison
Cabin Creek	Siluro-Ord	Shell	Waterflood	Semi Peripheral	6/59	311,092	22,665	24	Produced
Cat Creek East Dome	Ellis Sand	Hoss	Waterflood	Semi Peripheral	7/70	1,249	170	3	Third Cat Creek
Cat Creek Mosby Dome	Swift	Cenex	Waterflood	Random	7/67	6,427 *	103	6	Third Cat Creek
Cat Creek Mosby	Amsden	Cenex	Waterflood	Random	6/71	313	—	—	Idle
Cat Creek Unit 1	1st Cat	Cenex	Waterflood	Semi Peripheral	10/62	7,398	382	2	Third Cat Creek
Cat Creek Unit 1	2nd Cat	Cenex	Waterflood	Semi Peripheral	10/62	10,113	1,031	2	Third Cat Creek
Cat Creek Unit 2	1st Cat	Cenex	Waterflood	Semi Peripheral	12/59	9,734	260	3	Third Cat Creek
Cat Creek Unit 2	2nd Cat	Cenex	Waterflood	Semi Peripheral	12/59	12,116	753	3	Third Cat Creek
Cut Bank Dahlquist	Cut Bank	Cameo Minerals	Waterflood	Random	11/79	176	—	—	Idle
Cut Bank Lander A	Lander Sand	Gypsy Highview	Waterflood	Random	4/65	2,044	5	1	Madison
Cut Bank Marina	Cut Bank	P&M Petroleum	Waterflood	5 Spot	6/72	2,075	—	—	Idle
Cut Bank McGuiness	Madison	Union Oil	Waterflood	Random	12/62	6,989	—	—	Idle
Cut Bank No. Central	Cut Bank	Gypsy Highview	Waterflood	5 Spot	5/78	5,286	441	10	Madison
Cut Bank NE	Moulton	Fair	Waterflood	5 Spot	10/67	6,018	76	2	Madison
Cut Bank NE	Cut Bank	J and G	Waterflood	5 Spot	6/63	13,409	—	—	—
Cut Bank NW	Cut Bank	Gary Wolf	Waterflood	5 Spot	1/62	18,841	129	5	Madison
Cut Bank S Central	Cut Bank	Union Oil	Waterflood	5 Spot	5/63	52,971	6,784	57	Madison
Cut Bank SW	Cut Bank	J.R. Bacon	Waterflood	5 Spot	9/62	124,158	8,666	42	Madison & Recycle
Cut Bank Tesoro	Cut Bank	City Oil	Waterflood	5 Spot	9/71	6,613	209	5	Madison & Recycle
Cut Bank Tweedy	Cut Bank	Gypsy Highview	Waterflood	5 Spot	6/72	1,380	33	1	Madison
Cut Bank 2 Medicine	Cut Bank	Wold Oil Prop.	Waterflood	Random	12/67	58,443	—	—	Madison & Recycle
Darling	Cut Bank	P&M Petroleum	Waterflood	Random	2/67	—	—	—	Idle
Darling North Unit	Moulton	Buttes Resources	Waterflood	Random	2/68	2,472	—	—	Idle
Darling South Unit	Moulton	Buttes Resources	Waterflood	Random	2/67	7,548	—	—	Idle
Dean Dome	Greybull	Eastern American	Steam Inj	Cyclic	8/81	29	—	—	Idle
Dwyer	Charles	Phillips	Waterflood	Peripheral	10/68	5,768	199	3	Dwyer Charles
Elk Basin	Frontier	Amoco	Waterflood	Crestal	12/72	6,039	—	—	Idle
Elk Basin Unit	Tensleep	Amoco	Waterflood	Semi Peripheral	4/67	2,431	—	—	Idle
Elk Basin	Madison	Amoco	Waterflood	Semi Peripheral	8/61	228,307	15,733	13	Produced
Elk Basin NW	Tensleep	Amoco	Waterflood	Semi Peripheral	1/67	5,598	1,308	1	Produced
Fairview	Red River	Mepna	Pressure M	Random	5/70	4,186	—	—	Idle
Flat Coulee	Swift	Breck Oper.	Waterflood	Peripheral	2/72	11,869	2,171	13	Eagle
Flat Lake	Ratcliffe	Chevron USA	Pressure M	Random	6/71	36,294	4,242	15	Produced
Flat Lake West	Ratcliffe	Chevron USA	Pressure M	Random	11/74	7,228	694	5	Produced
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	261,481	100,246	50	Produced
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	124,262	17,013	6	Produce
Fred & George Creek	Sunburst	Fulton	Waterflood	Random	7/76	47,918	6,279	2	Madison & Eagle
Gas City	Red River	Shell	Waterflood	Semi Peripheral	10/69	15,928	1,716	3	Mission Canyon
Goose Lake	Ratcliffe	Apache	Waterflood	Semi Peripheral	1/73	22,532	1,726	2	Produced
Graben Coulee	Cut Bank	Monte Grande	Waterflood	Random	7/83	145	203	2	Madison
Gumbo Ridge	Tyler B	Meridian Oil	Waterflood	Semi Peripheral	6/80	2,732	719	2	Produced Cat Creek
Highview	Madison	Mountain States	Co2 Inj	Random	7/82	600	324	1	Produced
Ivanhoe	Tyler	Tomahawk Oil	Pressure M	Random	5/64	99	57	1	Produced
Jim Coulee	Tyler	Texas Petroleum	Waterflood	Semi Peripheral	7/72	13,747	4,227	6	Produced Cat Creek
Keg Coulee Unit	Tyler	Buttes Resources	Waterflood	Semi Peripheral	8/66	5,495	515	1	Madison
Keg Coulee Tyler SU	Tyler	Damson Oil	Waterflood	Semi Peripheral	12/69	3,609	—	—	Idle
Keg Coulee NW Unit	Tyler	Bison Operating	Waterflood	Semi Peripheral	1/70	6,029 *	57	1	Madison
Kelley	Tyler B	Union Texas	Waterflood	Random	7/69	3,296	703	1	3rd Cat Creek
Kevin Sunburst SU	Sunburst	Texaco	Waterflood	Random	8/64	12,830	151	7	Madison
Kevin Homestake SU	Sunburst	Petro Production	Waterflood	Random	8/64	8,714	898	5	Madison
Laird Creek	Swift	Meridian Oil	Waterflood	Semi Peripheral	2/77	807	—	—	Idle
Little Beaver	Red River	Shell Oil	Waterflood	Semi Peripheral	8/66	50,548	7,683	11	Produced

1987 SUMMARY (CONTINUED)

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1987			Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	
Little Beaver East	Red River	Shell Oil	Waterflood	Semi Peripheral	4/65	23,431	5,011	7	Produced
Little Wall South	Tyler	Union Texas	Waterflood	Random	10/83	4,893	5,433	5	Unit Wells
Little Wall South	Gunderson	Beartooth Oil/Gas	Waterflood	Random	10/87	35	385	1	Produced
Lookout Butte Coral	Red River	Shell Oil	Waterflood	Semi Peripheral	4/67	59,074*	4,561	10	Minnelusa
Melstone North	Tyler	True Oil	Waterflood	UK	1/83	3,019	2,817	6	3rd Cat Creek
Monarch	Siluro-Ord	Shell Oil	Waterflood	UK	12/73	6,492	184	2	UK
Pennel	Stoney Mtn.								
	Red River	Shell Oil	Waterflood	Random	8/69	198,934	34,296	64	Dakota & Produced
Pine A	Siluro-Ord	Shell Oil	Waterflood	Semi Peripheral	3/59	152,507	5,635	23	Fox Hills & Prod.
Pine C & D	Red River	Shell Oil	Waterflood	Semi Peripheral	3/68	23,070	997	4	Lodgepole
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	1184	—	—	Idle
Ragged Point Tyler A	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/66	10,483	929	1	Cat Creek
Ragged Point SW	Tyler	Graham Royalty	Waterflood	Random	10/82	3,517	2,217	3	WSW
Raymond	Nisku	Santa Fe Energy	CO2 Inj	UK	8/83	894	551	1	Duperow
Regan Dome	Madison	Union Oil	Waterflood	Random	7/73	5,315	1,341	5	Produced
Red Creek	Cut Bank	Exxon	Waterflood	5 Spot	6/65	21,903	—	—	See Border
Roscoe Dome	Lakota	Eastern American	Steam Inj	UK	5/82	5	—	—	Idle
Sheepherder	Judith River	Summit Resources	Secondary	Random	11/84	89	37	1	Tyler
Stensvad	Tyler	Tomahawk Oil	Waterflood	Semi Peripheral	12/63	29,126*	660	2	Produced
Sumatra Central	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	15,4530	19,499	15	Madison & Produced
Sumatra Grebe	Tyler	Cenex	Waterflood	Random	6/75	716	—	—	Madison & Produced
Sumatra NE	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	10,821	1,345	5	Madison & Produced
Sumatra Sawyer	Tyler	Buttes Resources	Waterflood	Semi Peripheral	6/80	1,034	52	1	Madison
Sumatra SE	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/69	23,722	3,252	4	Madison
Sumatra West	Tyler	Conoco	Waterflood	Semi Peripheral	10/68	53,607	5,816	5	Produced
Sumatra W Kincheloe	Tyler	Apache	Waterflood	Semi Peripheral	5/82	9,357	5,252	6	Madison
Tippy Buttes	Tyler	True Oil	Waterflood	Random	5/82	162	123	1	Dakota
Winnett Junction	Tyler	Templeton Energy	Waterflood	Random	10/77	6,601	1,370	2	Produced & WSW

* Cumulative figures adjusted by operator.

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
ACE HIGH Tyler	0	0	1	Statewide
ALMA Bow Island/Blackleaf	0	1	0	640-acre spacing units. Location to be no closer than 990' from spacing unit boundary. (Order 19-77)
AMANDA Bow Island Swift-Sunburst	0 0	8 4	0 0	320-acre spacing units for gas with one well per horizon from the base of the Swift to the surface to be located no closer than 660' from unit boundary. Spacing unit to consist of two contiguous quarter sections lying within one or two governmental sections. (Order 76-79) Field enlargement. (Orders 25-83 and 1-85)
ANVIL Nisku Ratcliffe Red River	1 2 8	0 0 0	0 1 0	320-acre spacing units for Red River "B" and "C" with one well per zone no closer than 660' to unit boundary; commingling approved for one well only per spacing unit. (Order 75-85) Produced water disposed into the Dakota formation. (Order 12-A-82)
ARCH APEX Bow Island Swift-Sunburst	0 3	38 1	5 2	330' from legal subdivision; 2,400' from any other drilling or producible gas well producing from the same reservoir; 75' topographic tolerance. (Order 4-60) Sometimes called Colorado Blackleaf pool. (Swift) Statewide.
ASH CREEK Shannon	2	0	4	Spacing waived within unitized portion of field except no well may be drilled closer than 660' from unit boundary. (Order 4-65) Waterflood started October 1964. (Orders 22-64, 15-66)
BADLANDS Eagle	0	11	1	Drilling and spacing units allow one well per governmental section to be located anywhere within a section but no closer than 990' to a section line. (Order 22-78)
BAINVILLE Red River Red River-Gunton Winnipegosis	2 2 1	0 0 0	0 0 0	Statewide. Single 320-acre spacing unit for Winnipegosis formation. (Order 117-84)
BAINVILLE II Red River	3	0	0	320-acre spacing units; no well closer than 660' to the unit boundaries. (Order 36-82) Field reduction. (Order 16-85) Single spacing unit. (Order 69-85)
BAINVILLE, NORTH Ratcliffe Red River Winnipegosis Interlake	1 3 3 1	0 0 0 0	0 0 0 0	320-acre spacing units to consist of two governmental quarter sections located in either one or two governmental sections. Wells to be located no closer than 660' to unit boundary and no closer than 1,650' to any well producing from the same formation. (Order 84-79) Board Order 84-79 is amended to permit a tolerance of 150' from the well location requirements of said order for topographic purposes. (Order 39-80)
BAINVILLE, WEST Madison Red River	1 1	0 0	0 0	320-acre spacing units to consist of two governmental quarter sections that may be in either one or two governmental sections. Location to be no closer than 660' to the unit boundary or closer than 1,650' to another producing well within the field. (Orders 19-78, 42-79) 320-acre spacing units aligned in east-west direction with permitted well to be no closer than 660' to unit boundary. (Order 57-80)
BANNATYNE Swift	26	0	0	Center of 10-acre tracts, 50' topographic tolerance. Commingling permitted. (Order 20-58) Pilot waterflood of Swift suspended in 1963.
BATTLE CREEK Eagle	0	38	1	Production of gas from all formations from surface to top of Virgelle formation. One well per producing horizon per section no closer than 990' to section line but allowing additional wells in each section no closer than 1,320' to wells producing from same horizon. (Order 40-86)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BEAN BLOSSOM Tyler B	3	0	0	Three spacing units with one well per lot. (Order 23-86) SWD approved EPA-87.
BEARS DEN Bow Island Madison Swift	0 0 7	1 0 2	0 1 0	Statewide.
BELFRY Kootenai	1	0	0	Statewide.
BELL CREEK Muddy	104	0	198	Originally 40-acre spacing units with location 660' from unit boundary with 150' tolerance for topographic reasons only. (Orders 37-67, 39-67, 50-67, 1-69, 17-70) Field now unitized. Tertiary program. (Order 25-80) Six areas unitized (Unit "A," "B," Ranch Creek, "C," "D," and "E"). Floods used Madison water. (Orders 7-70, 23-70, 8-71, 26-71, 35-71, 36-71) Tertiary enhanced recovery authorized for Units "A," "B," "D," (Orders 82-84, 111-84, 112-84). Ranch Creek enhanced recovery approved EPA-85.
BELL CREEK, SOUTHEAST Muddy	0	1	1	160-acre spacing units, wells 660' from spacing unit boundary. (Order 31-71)
BENRUD Charles Madison	0 1	0 0	1 0	160-acre spacing units with permitted location within a 1,320' square in center of quarter section. (Order 6-65) Field boundaries reduced. (Order 66-84) Water disposal into Judith River formation. (Order 64-62)
BENRUD, EAST Nisku	4	0	0	Same as Benrud Field. (Order 6-65) Single spacing unit. (Orders 108-84 and 7-85) Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73) SWD approved EPA-87.
BENRUD, NORTHEAST Nisku	1	0	0	Same as Benrud Field. (Order 6-65) Water disposal into Judith River formation. (Order 32-66)
BERTHELOTE Sunburst	3	0	0	Wells located 330' from lease lines; 660' between wells with no more than one well per governmental quarter-quarter section. (Order 18-66)
BIG COULEE Cat Creek 3 Lakota Morrison	0 0 0	7 1 2	1 0 0	Statewide. Single spacing unit: Sec. 29, T4N R20E for production of gas from Morrison formation. (Order 25-86)
BIG GULLY Tyler	2	0	0	Statewide.
BIG GULLY, NORTH Tyler	0	0	1	Statewide.
BIG MUDDY CREEK Mission Canyon Ratcliffe Red River	2 0 1	0 0 0	1 1 1	One well per 320-acre spacing unit with well no closer than 660' from boundary of four east-west units. (Order 4-75)
BIG ROCK GAS FIELD Blackleaf Bow Island Madison Colorado	0 0 0 0	26 9 0 5	0 5 2 0	640-acre spacing units for 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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BIG WALL				
Amsden	1	0	1	Spaced by old statewide spacing; 330' from lease or property line, 990' between wells in same reservoir. (Order 12-54) Previous disposal into Tyler "A" stopped in 1961. Waterflood of Tyler "B" sand started August 1966. (Order 22-66) Another Tyler "B" waterflood authorized by Order 96-83. Excess produced water disposed into the Tyler "B" formation. (Order 13-A-77) Enhanced recovery approved EPA 86.
Tyler	9	0	19	
BILLS COULEE				
Kootenai	0	3	0	Field without restrictions except that no well may be drilled closer than 330' from the exterior boundary of the field. (Order 22-80)
Dakota	0	1	0	
Moulton	0	2	0	
Sunburst	0	1	0	
Madison	0	0	1	
BLACK BUTTE				
Eagle	0	1	1	320-acre spacing units consisting of either the N/2 and S/2 or E/2 and W/2 of the section with well location to be no closer than 990' from a section line nor closer than 660' to the interior boundary. (Order 134-80)
BLACK COULEE				
Eagle	0	7	1	320-acre spacing units; well to be located no closer than 990' from unit boundary. (Order 6-73) Well location to be no closer than 660' to eastern boundary of Black Coulee Field. (Order 37-79) Field extension. (Order 71-79)
BLACK DIAMOND				
Nisku	2	0	0	320-acre spacing units; well location no closer than 660' from unit boundary. (Orders 147-81 and 51-86) Field enlarged. (Order 15-87)
BLACKFOOT				
Cut Bank-Madison	8	0	1	One well only per 40-acre spacing unit; 300' tolerance from center of spacing unit. Dual completion in Cut Bank and Madison with administrative approval. (Order 3-57) Waterflood started November 1976. (Order 34-76)
Nisku	1	0	0	
BLACKFOOT, EAST				
Cut Bank	0	0	2	Statewide.
BLACKFOOT SHALLOW GAS				
Sunburst-Dakota	0	9	0	640-acre spacing units; one well per section per producing horizon above the Kootenai with location to be no closer than 990' to unit boundaries. (Order 121-80)
BLACKJACK				
Blackleaf	0	2	0	One gas well per 160 acres, no closer than 660' from boundary of each unit. (Order 3-69) Statewide spacing. Order 3-67 amended to include Blackleaf in spacing and field rules for gas. (Order 4-74). Blackleaf gas pooled. (Order 3-75)
Bow Island	0	1	0	
Second White Specks	0	1	0	
Sunburst	0	11	0	
BLACKLEAF CANYON				
Sun River	0	2	2	Single spacing unit with Blackleaf Federal 1-A as designated well. (Order 84-81)
BLACKLEAF UNIT				
Sun River	0	2	1	Well spacing requirements set forth in 82-11-201 MCA and Board Rule 36.22.702 are suspended provided no well drilled to be closer than 990' from unit boundary. (Order 47-81). Two 280-acre spacing units. (Order 25-85)
BLOOMFIELD				
Dawson Bay	2	0	0	320-acre spacing units consisting of two contiguous governmental quarter sections which need not be in the same section; wells located no closer than 660' 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. (Order 32-84)
Red River-Interlake	5	0	0	
BLOOMFIELD, EAST				
Red River	1	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BLUE HILL Red River	0	0	1	Statewide.
BLUE MOUNTAIN Red River	1	0	0	Statewide.
BORDER Cut Bank Moulton Sunburst	15 0 0	0 1 1	2 0 0	Oil: Unitized into New and Old Border fields. Unitized 6-1-73. (Orders 8-73, 9-73) Gas: 330' from boundary of legal subdivision. 2,400' between wells in same formation on same lease. 75' topographic tolerance. (Order 7-54) Waterflood approved. (Orders 8-73, 9-73, 28-73)
BOWDOIN & AREA Montana & Colorado Shale	0	571	43	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) One additional well in each 640-acre spacing unit no closer than 990' to spacing unit boundary in Whitewater and Ashfield Units. (Order 41-82) Produced water injected into Phillips Sand-Ashfield unit. (Order 10-A-77)
BOWES Eagle Sawtooth	0 57	38 0	5 39	660' from boundary of legal subdivision. 1,320' from other wells in same formation. 75' topographic tolerance. (Order 23-54) Order 23-54 amended by establishing 160-acre Eagle spacing units in Sec. 5, 6, 7, 8, 17, 18 31N-19E. (Order 44-75) 330' from lease or property line, 990' between wells in the same formation. (Order 13-54) Vacuum pumps authorized for Sawtooth formation wells. (Order 74-83) Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61) Water from Madison.
BOX CANYON Red River	2	0	1	Statewide.
BRADLEY Dakota Madison Sunburst	0 1 0	1 0 0	0 0 2	One well per formation per section for production of gas from all horizons above the top of the Kootenai formation. (Order 91-84)
BRADY Morrison Sunburst Burwash	2 6 2	0 0 0	8 0 1	10-acre spacing units with 75' topographic tolerance from center of spacing unit. (Orders 34-62, 55-62) Field enlargement. Operators may commingle production from Burwash and Sunburst formations in Section 16. (Order 86-81) Produced water disposed into Sunburst formation. (Order 62-A-84)
BREED CREEK Tyler	10	0	4	Statewide.
BROADVIEW Frontier	0	1	0	Single 640-acre spacing unit comprised of Sec. 35, T5N R22E. (Order 8-86)
BRORSON Madison Red River	11 3	0 0	0 0	One well per 160-acre unit, no closer than 660' from unit boundary (Mission Canyon and Red River). (Order 5-69) Field enlargement. (Order 25-82) Gas to Brorson Field Plant. Produced water injected into Dakota formation. (Order 129-A-81) SWD approved EPA 86.
BRORSON, SOUTH Madison Red River	2 2	0 1	0 0	One well per 160-acre unit, no closer than 660' from unit boundary. (Order 26-68) Gas to Brorson Field Plant. Reduced Field Area. (Order 26-77)
BROWN'S COULEE, EAST Eagle Judith River	0 0	2 1	1 0	Statewide.
BRUSH LAKE Red River	5	0	1	320-acre spacing unit with initial nine spacing units described in Order 15-71 corrected.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BUFFALO FLAT				
Bow Island	0	6	1	Statewide.
Duperow	1	0	0	
BUFFALO LAKE				
Madison	0	0	1	Statewide.
Sawtooth	0	0	1	
BULLWACKER				
Eagle	0	45	2	One well per 320-acre spacing unit with well location no closer than 660' from unit boundary and 990' from field boundary. (Order 26-74) Field enlarged. (Order 63-85)
Judith River	0	1	0	
Virgelle	0	1	0	
BURGET, EAST				
Madison	3	0	0	Statewide.
Red River	1	0	0	
BURNS CREEK				
Red River	1	0	0	Statewide.
BURNS CREEK, SOUTH				
Red River	0	0	1	320-acre spacing units; well location to be no closer than 660' from unit boundary. (Order 2-82)
CABIN CREEK				
Madison	4	0	11	Spacing waived and General Rules for (Deviation), (Commingling), and (Dual Completion) are suspended until present Unit Agreement becomes inoperative. (Order 36-62) Many wells produce from both Interlake and Red River by dual completions. Gas through extraction plant. Field boundaries amended and spacing units designated. (Order 118-84) Waterflood of Siluro-Ordovician (Orders 5-59, 15-60, and 30-63). Produced water injected into the Mission Canyon (Order 60-62). SWD approved EPA-84, 85. Enhanced Recovery approved EPA-87.
Silurian-Ordovician	86	0	3	
CAMP CREEK				
Eagle	0	1	0	Statewide.
CANADIAN COULEE & AREA				
Sawtooth	0	1	0	320-acre spacing units with well location no closer than 660' from unit boundary, and 990' from field exterior boundaries. (Order 18-76)
CANADIAN COULEE, NORTH				
Sawtooth	0	1	1	640-acre spacing units. Location to be no closer than 1,650' to section line. (Order 15-74)
CANAL				
Madison	4	0	0	320-acre Red River spacing units consisting of E 1/2 and W 1/2 of governmental section. (Order 34-70) 160-acre Madison spacing units. Wells located no closer than 660' to unit boundary with 150' topographic tolerance. (Order 58-85)
Red River	1	0	0	
CANNON BALL				
Red River	1	0	0	Statewide.
CARLYLE				
Red River	1	0	0	320-acre spacing units; to consist of either the N/2 and S/2 or E/2 and W/2 of section or lots corresponding thereto. Well location to be no closer than 660' to unit boundary nor closer than 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) Produced water disposed into Dakota formation. (Order 126-A-81)
Nisku	1	0	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
CAT CREEK, EAST DOME				
Ellis	11	0	2	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 S1 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 in progress. Orders 17-56, 18-59, 13-62, 8-68, 38-70, 11-71) Water from Third Cat Creek sand. Waterflood modified. (Order 29-74)
CAT CREEK, MOSBY DOME				
Amsden	0	0	3	
Cat Creek 2 & 3	9	0	0	
Ellis	8	0	0	
Rierdon	1	0	0	
CAT CREEK, WEST DOME				
Cat Creek 1 & 2	32	0	8	
Ellis	1	0	0	
Morrison	3	0	0	
Mowry	2	0	0	
CEDAR CREEK				
Eagle	0	86	4	Order 33-54, original field rules, vacated by Order 32-86. 320-acre spacing units, wells in center of NW 1/4 and SE 1/4 of each section with 200' topographic tolerance. (Order 1-61) Delineation amendments. (Order 23-76 and 32-86)
CHAIN LAKES				
Eagle	0	3	0	Statewide.
CHARLIE CREEK				
Nisku	1	0	0	320-acre spacing units, either east-west or north-south at option of operator, located no closer than 660' from spacing unit boundary and no closer than 1,650' from another producing well. Spacing units may not cross section lines. (Order 66-76)
Red River	1	0	0	
CHARLIE CREEK, EAST				
Red River	2	0	1	Statewide. Two 160-acre spacing units for Duperow formation. (Order 47-87)
Duperow	1	0	0	
CHARLIE CREEK, NORTH				
Bakken	1	0	0	Single spacing unit. (Order 37-82) Statewide.
Madison	1	0	0	
Red River	0	1	0	
CHELSEA CREEK				
Nisku	1	0	0	Statewide.
CHINOOK, EAST				
Eagle	0	0	3	Statewide.
CHIP CREEK				
Eagle	0	0	3	160-acre spacing units. Location no closer than 660' from spacing unit boundary. (Order 89-76)
CLARKS FORK				
Greybull	0	1	0	330' from quarter-quarter section line. 1,320' between wells with 75' topographic tolerance. (Order 17-54)
CLARKS FORK, SOUTH				
Greybull	0	0	1	160-acre spacing; location no closer than 330' from quarter section line or 1,320' from any other well.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
CLEAR LAKE				
Madison	5	0	0	Statewide. Produced water disposed into Dakota, Muddy, Lakota, and Swift formation. (Orders 41-A-80, 60-A-80, 91-A-80, 116-A-81, 123-A-81) SWD approved EPA-87.
Nisku	1	0	0	
Red River	8	0	0	
CLEAR LAKE, SOUTH				
Red River	1	0	0	Statewide.
COAL COULEE				
Eagle	0	1	1	One well per governmental section, to be located no closer than 990' from section line and only one well permitted per formation. (Order 25-78) Amendment to (Order 25-78) provides 320-acre spacing units within certain sections to be designated by the operator. Well to be located no closer than 990' to unit boundary. (Order 36-79)
COAL RIDGE				
Mission Canyon	1	0	0	Statewide. Produced water injected into the Dakota formation. (Order 81-A-79)
COLORED CANYON				
Red River	4	0	0	Statewide. Single spacing unit comprised of N 1/2 Sec 7, T32N, R57E. (Order 28-84)
COLORED CANYON-NISKU				
Nisku	1	0	0	Single spacing unit comprised of S1/2 NW1/4 and N1/2 SW1/4 Sec 8 T32N R57E (Order 86-85).
COMERTOWN				
Nisku	4	0	0	320-acre spacing units; permitted well to be no closer than 660' to unit boundary. (Order 35-80) Field enlargement. (Orders 9-81 and 150-81)
Ratcliffe	3	0	0	
Red River	4	0	1	Produced water injected into the Dakota formation. (Order 107-A-82)
COMERTOWN, SOUTH				
Nisku	1	0	0	320-acre spacing units consisting of N1/2 and S1/2 of Sec 21 and W1/2 of Sec 22, T36N, R57E, wells located no closer than 660' to unit boundary. (Order 96-84) Enlarged. (Order 20-85)
Red River	2	0	0	
CONRAD, SOUTH				
Dakota	3	0	0	10-acre spacing units. Wells in center of each unit with 75' topographic tolerance. (Orders 34-62, 31-63)
Sunburst	5	0	0	
COTTONWOOD				
Red River	1	0	0	Single spacing unit. (Order 85-84)
COW CREEK				
Charles	0	0	1	80-acre spacing units, direction at option of operator but wells to be in SW 1/4 and NE 1/4 of each quarter section. (Order 11-69)
COW CREEK, EAST				
Kibbey	10	0	0	40-acre spacing units consisting of quarter-quarter section with permitted well to be at center with 150' topographic tolerance. (Order 35-74) Produced water disposed into Dakota formation. (Order 30-A-75 and 61-A-76)
CRANE				
Devonian	4	0	0	320-acre spacing units consisting of one half of a governmental section with well location to be no closer than 660' from unit boundary and no closer than 1,650' to any well drilling or producing from the same pool. (Order 40-79) SWD approved EPA-87.
Silurian-Ordovician	2	0	1	
CROCKER SPRINGS, EAST				
Mississippian	1	0	0	Statewide. (Order 68-82 which established 80-acre spacing units was vacated by Order 37-87.)
CROOKED CREEK				
Dakota	2	0	1	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
CUPTON Red River	7	0	2	160-acre quarter section spacing units. Location no closer than 660' from spacing unit boundary. (Order 4-72) Produced water disposed into Red River formation. (Order 1-A-80) SWD approved EPA-85, 86.
CUPTON AREA Red River	2	0	0	Single spacing unit. (Order 14-85)
CUT BANK Blackleaf Bow Island Cut Bank Cut Bank-Madison Kootenai Madison Moulton Sunburst Swift Dakota	0 0 60.3 2 3 48 41 3 0 0	2 14 185 0 1 1 1 5 1 1	0 1 360 0 1 16 40 4 0 0	(Kootenai formation includes Moulton, Sunburst, and Cut Bank sands.) Oil: 330' from legal subdivision line, 650' between wells in same formation 5-spot on 40-acre tract permitted. 75' topographic tolerance. (Order 10-54) Gas: 330' from legal subdivision, 2,400' between wells in same formation. 75' topographic tolerance. (Order 10-54) Sec. 20, 29, and 32 of T36N, R4W spaced 320-acres (N 1/2 and S 1/2). (Order 26-70) 320-acre spacing units for gas (Cut Bank) units; (E 1/2 and W 1/2) wells to be located no closer than 330' from legal subdivision line nor less than 2,400' from drilling or producible well producing from same reservoir. (Orders 82-76, 6-77) Field extension. (Order 3-79) Board Orders No. 10-54, 26-70, 6-77, 82-76, and 3-79 amended to include all formations from surface to base of Madison Lime Formation. (Order 45-80) Field enlarged. (Orders 68-83 and 13-85) There are 18 waterfloods in progress. Water from Eagle and Madison, or produced. Produced water disposed into Madison formation. (Orders 51-65, 52-65, 22-A-74, 80-A-76, 55-A-77, 60-A-80, 91-A-80, 123-A-81, 39-A-82, 20-A-84) SCCBSU enhanced recovery approved EPA-84, 85, 87 and Order 88-85. SWD approved EPA-86.
DAGMAR Red River	2	0	2	Statewide.
DAGMAR, NORTH Red River	1	0	0	320-acre spacing units; well location no closer than 660' from unit boundary. (Order 6-81) Produced water injected into Dakota formation. (Order 124-A-81) SWD approved EPA 86.
DEADMANS COULEE Nisku	0	0	4	Statewide. Produced water injected into Judith River formation. (Order 132-A-81) SWD approved EPA 86.
DEAN DOME Greybull	0	0	7	Statewide. Oil ring below gas cap.
DEER CREEK Interlake/Red River	1	0	5	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Well location in NE1/4 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 permitted upon approval of Board Petroleum Engineer. (Order 18-63) Excess produced water is disposed into Dakota and Lakota, Morrison and Swift formations. (Orders 6-56, 3-58 and 53-A-83)
DELPHIA Amsden	2	0	0	Statewide.
DEVILS BASIN Amsden Heath Tyler	0 6 1	0 0 0	2 3 0	10-acre spacing units; well location to be in the center of each spacing unit with a 75' tolerance permitted for topographic or geologic reasons. (Order 114-80) Produced water disposed into Heath formation. (Order 59-A-84)
DEVILS POCKET Heath	2	0	0	40-acre spacing units; wells no closer than 165' to spacing unit boundary. (Order 34-85)
DEVON Bow Island	0	24	1	160-acre spacing units for production of gas from all formations from surface to top of Kootenai formation; wells located no closer than 330' to any quarter section line and 660' to exterior boundaries of field, excepting existing wells. (Order 32-83) Field enlarged and amended to provide 320-acre spacing units for Bow Island formation; wells located no closer than 660' to interior spacing unit line and 990' to section lines. (Order 50-86)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
DEVON, EAST Bow Island	0	2	1	320-acre spacing units consisting of any two contiguous quarter sections; wells located no closer than 660' to spacing unit boundaries. (Order 42-86) Field enlarged. (Order 26-87)
DEVON, SOUTH UNIT Bow Island	0	1	0	Drilled on statewide spacing. Unitized for primary production. (Order 28-71, corrected) 320-acre spacing units; wells located no closer than 660' to unit boundaries. (Order 24-84) Field enlarged. (Order 11-87)
DIAMOND POINT Red River	2	0	0	320-acre spacing unit allowing two wells to produce from the Red River or from commercial production at any depth shallower. (Order 20-80) SWD approved EPA-85.
DIVIDE Madison	9	0	0	Statewide. Produced water disposed into Dakota formation. (Order 42-A-80, 130-A-81)
DRY CREEK Frontier Greybull Judith River Virgelle/Eagle	3 0 0 0	12 2 2 4	0 0 1 0	Statewide. Field redelineated. (Order 8-70) Six additional gas storage wells, west end of structure.
DRY CREEK, MIDDLE Frontier	1	2	0	320-acre spacing units consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option with permitted well no closer than 660' from spacing boundary. (Order 25-75)
DRY CREEK, SHALLOW GAS Virgelle	0	1	0	Statewide
DRY CREEK, SOUTHWEST Frontier	1	0	0	320-acre spacing units consisting of E 1/2 and W 1/2 of Sec. 5, T7S R21E; wells located no closer than 990' to spacing unit boundaries. (Order 47-86)
DRY CREEK, WEST Greybull	0	0	1	160-acre spacing units; well location anywhere in spacing unit but no closer than 660' from unit boundary. (Order 43-78) Order 43-78 amended to include Frontier formation. (Order 65-82) Field enlargement. (Order 86-82)
DRY FORK Bow Island	0	7	0	Statewide
DUNKIRK, NORTH Bow Island Dakota-Kootenai Sunburst	0 0 0	5 16 0	2 0 1	Only one well may produce from each producing zone, formation, or horizon, but no closer than 990' from section lines. (Order 58-81) Field enlargements. (Orders 104-81 and 66-82)
DUNKIRK, NORTH Bow Island Dakota-Kootenai Swift	0 0 0	15 1 1	0 0 0	One well per governmental section per zone or horizon. Each producing well to be located anywhere within section but no closer than 990' from section line. (Order 25-77) Field enlargements. (Orders 64-78 and 157-81)
DUTCH JOHN COULEE Sunburst	5	0	2	Statewide.
DWYER Madison	11	0	4	160-acre 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) Produced water disposed into Dakota formation. (Order 26-63) Waterflood. (Order 20-68) Enhanced recovery approved EPA 86.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
DWYER-NISKU Nisku	1	0	0	Single 320-acre spacing unit. (Order 30-87)
DWYER RED RIVER & AREA Red River	5	0	0	Single spacing unit with 2 wells. (Order 97-83)
EAGLE Duperow Madison Red River	2 16 1	0 0 0	0 2 0	Statewide.
EAGLE SPRINGS Bow Island-Sunburst-Swift	0	5	5	One well per governmental section per zone, located anywhere but no closer than 990' from section line for all gas zones above the top of the Kootenai. (Order 4-78) Commingling of Swift and Sunburst permissible. (Order 19-79)
EAST GLACIER Green Horn	1	0	0	Statewide. 160-acre spacing units. (Order 41-81) Amended to enlarge field and designate 80-acre spacing units with permitted well to be located no closer than 330' to the exterior boundaries. (Order 112-81)
ELK BASIN Big Horn Frontier Madison Embar-Tensleep	0 10 16 16	0 0 0 0	1 11 13 13	Statewide spacing is waived within unit areas. (Order 10-61) Gas to Elk Basin gasoline plant. Frontier: Water injection. (Order 1-72) Embar-Tensleep pressure maintenance by crestal gas injection. Waterflood approved in 1966. (Order 5-66) Madison: Water injection. (Order 17-61) Enhanced recovery approved EPA 86.
ELK BASIN, NORTHWEST Frontier Madison Tensleep	3 7 1	0 0 0	8 0 1	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) Gas to Elk Basin gasoline plant. Frontier: Waterflood in progress. Embar-Tensleep: Waterflood. (Order 3-67, 6-74) Madison, produced water.
ENID, NORTH Bakken Red River	1 2	0 0	0 1	Spaced for one well field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T23N, R54E. (Order 45-79)
ETHRIDGE Swift	0	6	0	Statewide, except two wells. (Order 28-65)
ETHRIDGE, NORTH Swift	0	1	0	320-acre spacing units; well location to be no closer than 660' from unit boundaries. Section 2, T33N, R4W is a 640-acre spacing unit. (Order 98-81)
FAIRVIEW Duperow Winnipegosis Madison Red River	0 1 7 12	0 0 0 0	1 0 1 0	160-acre spacing units. Well location anywhere in spacing unit but no closer than 660' from unit boundary. (Orders 48-65, 1-67, 43-67, 44-67, 38-84) Gas to Fairview plant. Field area reduced. (Order 119-84) Field enlarged. (Order 16-87) Northwest part of field unitized for gas injection. Gas from Fairview and Bronson fields. (Order 11-70) Salt water disposal into Dakota. (Orders 9-A-71, 24-A-71)
FAIRVIEW, EAST Red River	3	0	0	320-acre spacing units; designated well in the N 1/2 of Section 28 may be located no closer than 660' from the unit boundary or 1,650' from any well producing from the same pool. (Order 76-81)
FAIRVIEW, WEST Madison	2	0	0	Statewide.
FERTILE PRAIRIE Red River	5	0	0	80-acre spacing units consisting of north-south rectangular units. Well location in NW 1/4 and SE 1/4 of quarter section with 75' topographic tolerance. (Orders 3-56, 7-62) Board Orders 3-56 and 7-62 amended to provide well locations for each 80-acre spacing unit to be the center of the SW or NE quarter quarter section of each quarter section with 75' tolerance for surface obstructions. (Order 65-80)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
FIDDLER CREEK Greybull	1	0	1	Statewide.
FISHHOOK Madison Red River	1 4	0 0	0 0	Statewide.
FITZPATRICK LAKE Bow Island-Sunburst	0	9	2	One well per governmental section located no closer than 990' from section line for all gas zones above the top of the Kootenai. (Order 31-79) Field enlarged. (Order 113-84)
FLAT COULEE Blackleaf Bow Island Dakota Sawtooth Swift	0 0 0 0 22	1 2 1 1 3	0 0 0 0 0	Bow Island Gas: 330' from boundary of legal subdivision and 1,320' from other wells in same reservoir. (Order 16-55) Swift Oil: 40-acre spacing units. Well in center of spacing unit with 150' topographic tolerance. (Orders 16-62, 19-63) Dakota Gas: Statewide. Waterflood unit and redelineation approved for Swift sandstone. (Orders 13-71, 17-A-71, 22-71)
FLAT COULEE, EAST Sawtooth	0	0	1	Statewide
FLAT LAKE Madison Nisku	44 1	0 0	31 0	160-acre spacing units; well location in center of NE 1/4 of quarter section with 200' topographic tolerance. Wells no closer than 961' to North Dakota state line and no closer than 1,600' to Canadian line. (Orders 10-65, amended; 43-65, 23-66, 33-66) Excess salt water disposed into Muddy, Dakota, or Lakota formations (Orders 39-64, 39-66, 125-A-81) and into Ratcliffe formation (Order 122-A-81). Unit operation for eastern part of field. (Order 7-71) Unit operation for western part of field. (Order 32-74)
FLAT LAKE, EAST Madison	1	0	0	Single 160-acre spacing unit. (Order 103-84)
FLAT LAKE, SOUTH Ratcliffe	4	0	2	160-acre spacing units established by (Order 2-67) then modified to provide that the permitted well may be located anywhere within the unit but no closer than 660' to any unit boundary. (Order 49-80) Excess salt water disposed into Muddy, Dakota, or Lakota. (Order 19-67)
FLAXVILLE Mission Canyon	2	0	0	160-acre spacing units; permitted well to be no closer than 660' from the exterior boundaries of the unit. (Order 105-82) Order 105-82 amended to provide 150' tolerance for topographic reasons. (Order 124-82) SWD approved EPA-85.
FORT CONRAD Bow Island	0	14	0	640-acre spacing units; well location to be no closer than 990' from the section line. (Order 19-81) Field enlargement. (Order 118-82)
FORT GILBERT Duperow Madison Red River	1 8 2	0 0 0	0 5 0	160-acre spacing units; well location no closer than 660' from unit boundary with 150' topographic tolerance. (Order 94-81) Excess produced associated gas reinjected into Duperow formation. (Order 78-81)
FOUR MILE CREEK Red River	1	0	0	320-acre spacing units. (Order 43-75) Field boundary reduction. (Order 10-83)
FOUR MILE CREEK, WEST Red River	1	0	1	Statewide.
FOX CREEK Stonewall	1	0	0	Statewide.
FOX CREEK, NORTH Madison	1	0	1	160-acre spacing units for Madison formation; wells located no closer than 660' to the unit boundary with 150' topographic tolerance. (Order 13-84)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
FRANNIE Tensleep	1	0	1	10-acre spacing units; well location in center of each unit with 100' topographic tolerance. (Order 35-63) Unitized for waterflood of Phosphoria-Tensleep formations using produced fluids. (Order 21-70) EOR approved. (Order 62-85)
FRED & GEORGE CREEK Bow Island Madison Sunburst Swift/Blackleaf	0 1 25 4	3 0 0 2	0 0 21 2	Sunburst Oil: 40-acre spacing units; well location in center of unit with 250' topographic tolerance. (Orders 29-63, 1-65, amended by Order 48-77) Sunburst Gas: same as Arch Apex. (Order 4-60) Statewide for other formations. Sunburst waterflood initiated July 1970, using water from Madison (Order 13-70) and Eagle. (Order 27-71) (Order 40-80)
FRESNO & AREA Eagle	0	7	1	640-acre spacing units; wells located no closer than 990' from unit boundary. One well may be drilled within each spacing unit for each producing horizon within the spacing unit. (Order 14-76) Field enlargement and modification of field rules within certain areas. (Order 52-80)
FROG COULEE Red River	1	0	0	320-acre spacing units; wells to be located no closer than 660' from the unit boundary. (Order 55-79)
FROID, SOUTH Red River	1	0	0	Statewide.
GAGE Amsden	3	0	0	40-acre spacing units; well location to be in center of each unit with a permitted tolerance of 150' for topographical or geological reasons. (Order 120-80) Field enlargement. (Order 44-81)
GALATA Bow Island	0	7	1	One well per governmental section located no closer than 990' to section lines. (Order 21-84) Two wells from same formation per section no closer than 1,320' to each other. (Order 28-84) Field enlarged. (Orders 41-85 and 76-85)
GAS CITY Madison Silurian-Ordovician	0 11	0 0	1 5	80-acre spacing units consisting of E 1/2 and W 1/2 of quarter sections; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance. Spacing waived and statewide rules for (Deviation), (Commingling), and (Dual Completion) are waived in unitized portion of field. (Order 29-62) Excess produced water disposed into Judith River formation. (Orders 32-61, 20-64) Waterflood using produced water and Madison water. (Order 16-69) Produced water disposed into Charles "B" formation. (Order 90-A-79)
GIRARD Bakken Red River	1 1	0 0	0 0	Statewide.
GLENDIVE Silurian-Ordovician	14	0	7	80-acre spacing units consisting of any two adjacent quarter-quarter sections; wells located in center of NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance. (Orders 27-55, 19-62, 58-62, 20-66) 80-acre spacing units as set forth by Order 95-84. Commingling of Red River and Madison formations. (Order 95-84) Excess produced water disposed into Swift, Dakota, and Judith River formations. (Orders 16-56, 16-63, 40-A-70, 7-A-72, 8-A-82) SWD approved EPA 86.
GOLD BUTTE Bow Island	0	1	0	640-acre spacing, well location any quarter-quarter section cornering on center of section. (Order 26-59) Amended field boundary. (Order 43-77)
GOLDEN DOME Frontier Greybull	1 0	4 3	1 0	160-acre spacing; 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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
GOOSE LAKE				
Ratcliffe	22	1	15	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)
Red River	1	0	0	
				North Goose Lake Unit waterflood. (Order 17-72) Unit production curtailment. (Order 45-77) Excess produced water disposed into Mission Canyon and Dakota formations. (Orders 12-64, 14-66, 12-68) Produced water disposed into Ratcliffe formation (Order 138-A-80) Produced water disposed into Dakota formation. (Order 117-A-81) Enhanced recovery approved EPA 86. SWD approved EPA-87.
GOOSE LAKE, WEST				
Red River	2	0	0	Statewide.
GOSSETT				
Madison	0	0	4	Statewide.
Red River	1	0	0	
Stoney Mountain	1	0	0	
GRABEN COULEE				
Cut Bank	79	0	2	40-acre spacing units; well location no closer than 330' from legal subdivision. (Cut Bank and Madison) Oil: 330' from boundary of legal subdivision and 650' from any other well in same reservoir and on same lease. 75' topographic tolerance. (Order 73-62)
Madison	1	0	1	
Sunburst	11	0	1	
				Excess produced water disposed into Cut Bank formation. (Order 45-A-75 and 63-A-84) Waterflood of Cut Bank sands. (Order 61-83) SWD approved EPA-86, 87.
GRANDVIEW				
Bow Island	0	3	3	320-acre spacing units aligned in a north-south direction; well location no closer than 660' to a spacing unit boundary. (Order 49-67) Dual completion with Bow Island.
Sawtooth	0	1	0	
GRANDVIEW, EAST				
Swift	4	0	1	Statewide.
GREEN COULEE				
Red River	1	0	0	160-acre spacing units for Ratcliffe formation. Well location to be no closer than 660' to unit boundaries with 150' tolerance allowed for topographic or geologic reasons. 320-acre spacing units for the Red River formation with well location to be no closer than 660' to the unit boundary nor closer than 1,650' from any well producing from the Red River. (Order 56-81)
GREEN COULEE EAST AREA				
Interlake	0	0	1	Single spacing unit. (Order 99-82)
GUMBO RIDGE				
Tyler	2	0	2	Statewide. Third Cat Creek water for waterflood. (Order 54-79)
GUNSIGHT				
Madison	3	0	1	Statewide.
GYPSY BASIN				
Sawtooth, Sunburst, Swift, Madison, Nisku	21	5	25	330' from lease lines and 660' between wells in same formation. Only two wells per quarter-quarter section. (Order 7-66) (Sawtooth-Madison) Oil: 40-acre spacing units; wells no closer than 330' from lease line. (Order 7-66) (Sawtooth-Madison) Gas: 160-acre spacing units; well locations in center of any quarter-quarter section in each 160-acre unit, 2,340' between gas wells. 150' topographic tolerance. (Order 13-59) Injection of excessive gas produced with oil into Sunburst gas cap. (Order 6-64)
HAMMOND				
Muddy	0	8	2	320-acre spacing units; each unit shall consist of a regular half of a governmental section with well location to be no closer than 660' to a unit boundary nor closer than 990' to the exterior boundaries of the field. (Order 97-80)
HARDIN				
Frontier	0	29	17	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
HARDPAN				
Bow Island	0	12	3	Spacing one well per section. Well location no closer than 990' from the section boundary. (Order 145-81) Field enlargement. (Order 131-82)
Swift	1	0	0	
HARDSCRABBLE CREEK				
Red River	1	0	0	Statewide.
HAVRE				
Eagle	0	4	1	Single spacing unit for production of gas.
HAWK CREEK				
Amsden	1	0	0	Statewide.
HAY CREEK				
Interlake	1	0	0	Statewide. 320-acre spacing, any two adjacent quarter sections, direction to be determined by operator. Location no closer than 660' from unit boundary. (Orders 15-69, 27-73) Gas to Brorson plant. Water disposal into Red River. (Order 20-A-70) Produced water disposed into Dakota formation. (Order 90-A-80, 129-A-81)
Mission Canyon	2	0	0	
Red River	1	0	0	
HAYSTACK BUTTE				
Bow Island	0	7	1	640-acre spacing units; one well per each producing horizon above Kootenai. Location no closer than 990' from spacing unit boundary. (Order 85-76) Amended field boundary. (Order 37-77)
HIAWATHA				
Tyler	4	0	0	Statewide.
HIBBARD				
Amsden	0	0	1	Statewide. Produced water disposed into the Amsden formation. (Order 9-A-82)
HIGH FIVE				
Stensvad	9	0	2	Statewide. Water disposed into Dakota and Stensvad formations. (Orders 33-A-77, 70-A-78) Unitized & Polymer-Waterflood authorized. (Order 110-80)
Tyler	5	0	1	
HIGHVIEW				
Madison	11	1	9	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)
Devonian	1	0	0	
Swift	0	0	1	
HONKER				
Red River	1	0	0	320-acre specified spacing units; permitted well not to be closer than 660' from the unit boundary. (Order 105-80)
HORSE CREEK				
Swift	1	0	0	Statewide.
HOWARD COULEE				
Tyler	1	0	0	Statewide. Produced water injected into the Piper formation. (Order 69-A-78)
INJUN CREEK				
Tyler	1	0	0	Statewide.
Stensvad	1	0	0	
INTAKE II & AREA				
Madison	1	0	1	320-acre spacing units; permitted well to be located no closer than 660' from the unit boundary. (Order 99-81) Produced water disposed into Dakota formation. (Order 60-A-84) SWD approved EPA-85.
Red River	3	0	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
IVANHOE				
Amsden	1	0	0	40-acre spacing unit for production from any one common formation; well location in center of unit with 200' topographic tolerance. (Order 7-60 and 13-56) Waterflood of Tyler B and C sands discontinued. Water disposal into Tyler A. (Order 8-A-78, 10-A-84)
Heath	1	0	0	
Morrison	1	0	0	
Tyler	3	0	4	
JIM COULEE				
Tyler	15	0	0	Unitized. (Order 18-72) No well closer than 330' from unit boundary. Waterflood project approved in Tyler Sands. (Order 18-72)
JIM COULEE, NORTH				
Tyler-Stensvad	2	0	0	Statewide.
KATY LAKE				
Red River	2	0	0	Statewide.
KATY LAKE, NORTH				
Mission Canyon	5	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) Produced water disposed into the Dakota formation. (Order 15-A-82)
Nesson	1	0	0	
Red River	5	0	0	
KEG COULEE				
Stensvad	1	0	2	40-acre spacing in southwest portion of field except that spacing is waived in unitized portion. (Orders 3-64, 4-64, 23-64) 80-acre spacing in remainder of field with variable pattern. (Orders 11-60, 28-62) 40-acre spacing: W 1/2 E 1/2 and W 1/2 Sec. 35-11N-30E; NW 1/4 Sec. 35-11N-30E; NW 1/4 Sec. 2-10N-30E. (Order 23-72) Topographic tolerance varies from 100' to 250'. (Order 11-60, 4-64, 23-64) Buffer zone waived. (Order 16-65) Field reduction. (Order 2-76) Orders 11-60, 4-64, and 2-76 amended by Order 58-76. Three waterflood units. (Orders 3-64, 28-66, 10-69, 14-69) Madison water injected.
Tyler	9	0	10	
KEG COULEE, NORTH				
Tyler	1	0	1	40-acre spacing units; well location in center of spacing unit with 150' topographic tolerance. (Order 46-64) Buffer zone waived. (Order 16-65) Field area amended. (Order 59-76)
KEITH AREA				
Bow Island	0	1	0	Statewide.
Sawtooth	0	0	1	
White Specks	0	3	0	
KEITH, EAST				
Bow Island	0	6	0	Statewide, except unitized portions spaced by Order 22-62. Pooling. (Order 19-66)
Niobrara	0	1	0	
Sawtooth	0	2	0	
Second White Specks	0	11	0	
KELLEY				
Tyler	3	0	0	Statewide. 250' topographic tolerance. (Order 15-67) Waterflood using Third Cat Creek water. (Orders 8-69, 51-76)
KEVIN, EAST GAS FIELD				
Sunburst	0	2	0	320-acre spacing units consisting of E 1/2 and W 1/2 of 6-34N-1E, all horizons above base of Rierdon formation, commingling approved. (Order 23-85) Field enlarged. (Orders 29-86 and 10-87)
KEVIN, EAST NISKU OIL				
Nisku	11	1	0	80-acre spacing units consisting of E 1/2 or W 1/2 of governmental quarter section; wells located in center of SW 1/4 or NE 1/4 of each quarter section with 200' geologic or topographic tolerance. (Order 46-84) Field enlarged. (Order 9-86)
KEVIN-SOUTHWEST				
Bow Island-Dakota Sunburst-Swift	0	22	1	320-acre one-half section spacing units lying north-south or east-west at operator's option. Location to be no closer than 660' from unit boundary for Sunburst-Swift formations and all formations above the top of the Kootenai. (Orders 26-78, 47-78, 48-78) Field enlargement. (Orders 96-79, 47-80, 163-81)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
KEVIN SUNBURST				
Burwash	9	0	0	Oil: 9 Wells per 40-acre tract; only 3 wells on any side of tract with set back at least 220' from line. Single spacing unit. (Order 61-85) 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 units. (Orders 8-54, 28-55) Field enlarged. (Order 54-87) There are three waterfloods in operation using Madison water. (Orders 9-64, 17-64, 30-64, 36-65) Sunburst water disposed into Madison (Order 50-76 and 11-A-84). H ₂ S, CO ₂ and produced water disposed into Madison. (Order 156-81) EPA-87. SWD approved EPA-84, 85, 86, 87.
Colorado, Sunburst, Ellis Stray, Sand, Cut Bank & Madison	1140	126	536	
Dakota, Sunburst, Swift, Bow Island & Kootenai	54	25	3	
Eagle	0	1	0	
Ellis	52	0	8	
Nisku	2	1	0	
Sawtooth	0	0	1	
KEVIN SUNBURST, NISKU & AREA				
Swift	0	1	0	Gas: 640-acre spacing units; location no closer than 990' from spacing unit boundary. (Order 83-76) Oil: 80-acre spacing units; location no closer than 330' from spacing unit boundary. (Order 7-86)
Devonian-Nisku				
KICKING HORSE				
Bow Island	0	11	0	320-acre spacing with location permitted no closer than 660' from unit boundary and 990' from field boundary. (Order 17-74) Board Order 17-74 is amended to include certain additional lands into field and provide that 320-acre spacing units may be either the N/2 & S/2 or E/2 & W/2 of section. (Order 53-80)
Sawtooth	0	1	0	
Sunburst	0	4	1	
KINCHELOE RANCH, WEST				
Tyler	5	0	0	Statewide.
KINYON COULEE AREA				
Bow Island	0	3	0	Statewide.
KINYON COULEE, SOUTH				
Bow Island	0	0	1	Only one well permitted. Well location no closer than 990' from section line. (Order 31-81)
KIPPEN AREA, EAST				
Madison-Swift	0	1	0	Statewide.
Sawtooth	0	0	1	
LAIRD CREEK (LAIRD CREEK U)				
Swift	7	0	2	Statewide. Unitized and waterflood authorized in Swift for oil production. (Order 25-74) Commenced 2-25-77.
LAKE BASIN				
Clagget	0	3	0	160-acre spacing units to base of Virgelle; wells no closer than 660' from unit boundary and 990' from field boundary. Commingling permitted after administrative approval. (Order 9-74) Gas from Telegraph Creek pooled. (Order 29-75)
Eagle-Virgelle	0	16	4	
Frontier	0	1	0	
Telegraph Creek	0	3	0	
LAKE BASIN, NORTH				
Eagle	0	2	0	640-acre spacing units consisting of one section. Locations 990' from section line. (Order 3-74) 160-acre spacing units located no closer than 660' from quarter section lines within restricted sections. (Order 63-76)
LAMBERT				
Red River	4	0	0	320-acre spacing units consisting of the E 1/2 and W 1/2 of section. (Order 3-83) Statewide.
LAME STEER CREEK				
Red River	1	0	0	Single spacing unit. (Order 101-84)
LANDSLIDE BUTTE				
Madison	10	0	9	Statewide. Reinject gas into Madison formation. (Order 84-84) SWD approved EPA 86.
Sun River	3	0	0	
LAREDO				
Eagle	0	0	15	320-acre spacing with unit consisting of one-half section lying north-south or east-west at operator's option after administrative approval. Well no closer than 990' from unit boundary. (Order 8-74)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
LEARY Muddy	2	0	1	40-acre spacing units; wells located no closer than 330' to spacing unit boundary with 75' topographic tolerance. (Order 115-84 which amended original 80-acre spacing established by Orders 12-69, 19-70, and 68-76)
LEDGER Bow Island Sawtooth	0 0	56 0	5 1	640-acre spacing; one well per section per sand to be located no closer than 990' from section line. Permissible to commingle two or more sands, subject to administrative approval by the Petroleum Engineer. (Order 53-77) Field enlargement and amendment to allow two wells per sand per section. (Order 1-87)
LEROY Eagle	0	28	11	320-acre spacing with unit consisting of one-half section lying north-south or east-west at operator's option after administrative approval. Wells no closer than 660' from unit boundary and 990' from field boundary. (Order 19-75) Board Order 19-75 amended that a tolerance of 330' for permitted well be allowed for topographic reasons. (Order 72-80) Field enlargement. (Order 31-87)
LISCOM CREEK Shannon	0	8	0	Spacing, one well per 640 acres, with location no closer than 990' from section boundary. (Order 20-72)
LITTLE BASIN Frontier	0	3	0	640-acre spacing units; one well per section located no closer than 990' from spacing unit boundary. (Order 27-86)
LITTLE BEAVER Silurian-Ordovician	33	0	4	Spacing waived and General Rules for (Deviation), (Commingling), and (Dual Completion) are suspended until present Unit Agreement becomes inoperative. (Order 41-62) Waterflood of the Red River was commenced in August 1967. (Order 3-66) Minnelusa water.
LITTLE BEAVER, EAST Silurian-Ordovician	9	0	2	Same as for Little Beaver. (Order 42-62) Waterflood of the Red River was commenced in April 1965. (Order 33-64)
LITTLE CREEK Eagle-Virgelle	0	3	1	Statewide.
LITTLE PHANTOM Sunburst	1	0	0	10-acre spacing units; well location to be located anywhere within the spacing unit but no closer than 220' from the exterior boundary lines of the field nor closer than 440' to any well capable of or producing from the Sunburst Sands. (Order 46-81)
LITTLE ROCK Bow Island-Blackleaf	0	11	0	320-acre N 1/2 and S 1/2 spacing units. Well location no closer than 990' from west line of Section 14 and 660' from the remaining unit boundary lines. (Order 40-78) Field enlargement. (Orders 94-79 and 34-80)
LITTLE WALL CREEK Stensvad Tyler Tyler-Stensvad	1 3 4	0 0 0	0 0 0	Statewide. Produced water injected into Tyler formation. (Orders 54-A-77, 63-A-78, 1-A-81) South Little Wall Creek Unit waterflood. (Order 85-83) Little Wall Creek, Tyler Sand Unit. (Order 40-84) Enhanced recovery approved EPA-84, 86.
LITTLE WALL, SOUTH AND UNIT Tyler	19	0	5	Statewide. Enhanced recovery approved EPA-87 and Order 39-87).
LOBO Interlake Red River	1 1	0 0	0 0	Statewide
LODGE GRASS Minnelusa	2	0	0	Statewide.
LOHMAN Eagle	0	4	3	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
LONE BUTTE Red River Mission Canyon	2 1	0 0	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' from unit boundary with 150' tolerance for topographic or geologic reasons. (Order 83-85)
LONETREE CREEK Red River	9	0	0	320-acre spacing, wells 660' from spacing boundary, 2,000' between wells. (Order 29-72) Field reduction. (Orders 162-81 and 84-85)
LONETREE CREEK, WEST Red River	1	0	1	Spacing units shall be S 1/2 and N 1/2 of Section 12, T24N R56E. No well closer than 660' from boundary or 1,320' from existing well. (Order 73-82)
LONG CREEK Charles C	1	0	0	Statewide.
LONG CREEK, WEST Nisku	2	0	0	80-acre spacing units comprised of two contiguous quarter quarter sections which may lie in either one or two governmental sections aligned either north-south or east-west with location to be no closer than 330' from unit boundary nor less than 1,000' from any other producing well. (Order 27-77) Field enlarged. (Order 71-83) SWD approved EPA 86.
LOOKOUT BUTTE Madison Silurian-Ordovician	4 38	0 0	4 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. (Order 7-63) Field reductions. (Orders 57-85 and 6-87) Water disposal into Madison. (Order 68-62) Waterflood of Silurian-Ordovician approved in 1966. (Order 35-66) Water from Minnelusa. Enhanced recovery approved EPA-87.
LOOKOUT BUTTE, EAST Red River Lodgepole	4 1	0 0	0 0	22 delineated spacing units with wells located no closer than 660' to the unit boundary with 175' topographic tolerance. (Order 87-85) Field enlargement. (Order 6-87) Enhanced recovery approved EPA-87.
LORING UNIT Bowdoin-Greenhorn-Phillips- Carlile	0	112	1	Federal Unit.
LORING, EAST Bowdoin-Greenhorn-Phillips- Carlile	0	81	0	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn and Phillips) exist, a well may be drilled to each discrete formation and may be located no closer than 660' from the unit boundaries. (Order 60-82)
LORING, WEST	0	2	0	Spacing units comprised of 1 full section with 4 wells permitted to each formation in each spacing unit located no closer than 660' to the exterior boundary of the section and no closer than 1320' to a well in the same formation. (Order 7-87)
LOWELL Red River	3	0	1	320-acre spacing units consisting of two contiguous governmental quarter sections which may lie in either one or two governmental sections. Wells to be located no closer than 660' from unit boundary or closer than 1,650' to well producing from the same horizon. (Order 104-79)
LUSTRE AND AREA Madison	49	1	20	80-acre spacing units consisting of 1/2 of a regular governmental quarter section. Either E 1/2 or 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) Produced water disposed into Dakota-Swift formation. (Order 39-A-83 and 58-A-84) SWD approved EPA-85, 86, 87.
LUSTRE, NORTH Ratcliffe	1	0	0	80-acre spacing units 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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
MACKAY DOME Greybull	0	0	4	Statewide.
MARIAS RIVER Bow Island	0	19	2	One well per section per horizon above the top of the Kootenai. Location to be no closer than 990' from section line. (Order 18-78) Field enlargement. (Order 12-83)
MASON LAKE Amsden Cat Creek	2 11	0 0	3 3	80-acre spacing units consisting of one half of a quarter section lying in either east-west or north-south direction; well location in center of the NE and SW quarter-quarter sections of each quarter section with 75' topographic tolerance. (Order 35-78) Amending Order 35-78 for certain lots designated as spacing units. (Order 66-78) Field enlargement. (Order 16-79) Produced water disposed into Muddy formation. (Order 3-A-80) and into Mowry formation. (Order 29-A-84) SWD approved EPA-85.
McCABE Ratcliffe	3	0	0	160-acre spacing units; permitted well to be no closer than 660' from spacing unit boundary. (Order 100-80) 150' tolerance allowed for topographic reasons. (Order 3-81) Board Order No. 100-80 amended to eliminate the requirement of 1,650' between wells producing from the Madison Group. (Order 37-81)
McCABE, WEST Red River	1	0	0	Single spacing unit. (Order 49-84)
McCOY CREEK Red River	1	0	0	Statewide.
MEDICINE LAKE Silurian-Ordovician Winnipegosis Mission Canyon	7 2 0	0 0 0	0 0 1	320-acre spacing units comprised of any two contiguous governmental quarter sections in either one or two governmental sections. Well to be located no closer than 660' from unit boundary nor closer than 1,650' to any well producing from the same formation. (Order 50-79) Produced water disposed into Muddy, Kibby and Dakota formations. (Orders 133-A-81, 111-A-82)SWD approved EPA 86.
MELSTONE Tyler	12	0	0	Statewide. Enhanced recovery approved EPA 86.
MIDDLE BUTTE Bow Island Blackleaf Second White Specks	0 0 0	2 1 1	0 0 0	Orders 3-60, 21-75 amended to delineate field extension and 320-acre spacing units consisting of the E 1/2 and W 1/2 of each section; well location no closer than 990' from the section line and 660' from the interior boundary. (Order 47-77)
MIDFORK Charles C	2	0	1	Statewide. SWD approved EPA 86.
MINERAL BENCH Charles C	1	0	0	Statewide. Water disposal into Dakota-Lakota per (Order 18-65). Produced water injected into Judith River. (Order 110-A-82) SWD approved EPA 86
MINERS COULEE Bow Island Sawtooth Sunburst	0 0 0	13 0 2	1 1 9	Oil: 40-acre units consisting of quarter-quarter sections; well location no closer than 330' from lease or property line and 660' from any other well. (Order 9-66) Order 9-66 amended to comply with Order 5-74. Gas: 160-acre spacing with wells 990' from boundary. (Order 5-74) Sawtooth gas spacing unit. (Order 43-76) Field redelineation. (Order 44-77) Field enlargement. (Order 4-80)
MISSOURI BREAKS Red River	1	0	0	320-acre spacing units as specified by Order 97-82.
MONA Red River	1	1	1	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
MONARCH				
Madison	0	0	2	80-acre spacing units consisting of E 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 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) Produced water is disposed into the salt water disposal system for the Pennel Field. Water-flood initiated 12-1-73. (Order 23-73) Produced water disposed into the Silurian and Charles formation. (Orders 52-A-83 and 55-A-83)
Silurian-Ordovician	16	0	6	
MONDAK, WEST				
Devonian	1	0	0	320-acre spacing units for Silurian and Ordovician pools. Units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2. Well location to be no closer than 660' to unit boundary or closer than 1,650' to any well drilling or producing from same pool. (Order 42-77) 320-acre spacing units for Madison and Devonian formations. Units to consist of either N 1/2 and S 1/2, or E 1/2 and W 1/2. Well location to be no closer than 660' from a quarter section line or section line and no closer than 1,650' to any well drilling or producing from same pool. (Orders 23-77, 33-78, 51-79) Order 51-79 amended to enlarge Madison formation delineation. (Order 95-83) Produced water injected into Dakota-Lakota. (Order 49-A-78 and 111-A-80) SWD approved EPA 86.
Madison	27	0	2	
Silurian-Ordovician	11	0	1	
MOSSER DOME				
Mosser Sand	21	0	1	Spacing waived. Future development requires administrative approval of the Board. (Order 27-62)
MT. LILLY				
Bow Island	0	1	0	640-acre spacing, well location in approximate center of any of the four quarter-quarter sections adjoining center of section; 250' topographic tolerance. (Order 37-63)
Madison	0	0	2	
Swift	0	1	0	
MUSSELSHELL				
Tyler	1	0	1	Statewide.
MUSTANG				
Red River	3	0	0	Statewide.
NEISER CREEK				
Red River	1	0	0	Single spacing unit. (Order 78-82)
NINEMILE				
Nisku	2	0	0	Statewide.
NOHLY				
Nisku	5	0	0	Single spacing unit. (Order 77-84) Field enlarged for 320-acre Red River spacing units (Order 54-84) and 160-acre Nisku spacing units. (Order 55-84)
Ratcliffe	4	0	0	
Red River	3	0	0	
NOHLY, SOUTH				
Red River	1	0	0	Single spacing unit. (Order 35-83)
NORTH FORK				
Madison	6	0	0	Statewide.
O'BRIENS COULEE				
Blackleaf	0	1	1	Statewide.
Bow Island	0	12	3	
Bow Island-Spike	0	1	0	
Second White Specks	0	1	0	
OLD SHELBY AND AREA				
Bow Island	0	4	0	320-acre spacing units to be comprised of either E 1/2, W 1/2, N 1/2, or S 1/2 of a section for Swift, Kootenai, Dakota, and Sunburst gas. Well location to be no closer than 660' to the unit boundary. Original spacing Order 85-81 plus field enlargement and amendment orders were superseded by Order 90-83. Field extensions. (Orders 15-84, 83-84, 98-84, 116-84, 33-85, 60-86, 12-87)
Swift-Sunburst	0	35	2	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
OLJE Mission Canyon Red River	0 1	0 0	1 0	Single 160-acre spacing unit. (Order 35-85)
OLLIE Duperow Red River	1 1	0 0	0 0	320-acre specified spacing units for the Red River and Duperow formations. The permitted well for each spacing unit to be located no closer than 660' from the spacing unit boundary. (Order 73-80) Produced water disposed into the Dakota formation. (Order 11-A-82)
OTIS CREEK Red River	2	0	0	Statewide.
OTIS CREEK, SOUTH Red River	2	0	1	320-acre spacing units; well to be located no closer than 660' to unit boundary. (Order 39-72) Extended field boundary. (Orders 56-76, 67-76) Orders 39-72 and 56-76 amended to eliminate spacing units. New spacing units are quarter sections. Well location no closer than 660' from unit boundary or 1,650' from producing well with 150' tolerance. Operator may designate contiguous quarter sections as spacing units. (Order 73-81)
OUTLOOK Duperow Interlake Nisku Winnipegosis	1 2 1 5	0 0 0 0	0 1 0 1	160-acre spacing units; well location in center of either SW 1/4 or NE 1/4 of each quarter section; 175' topographic tolerance. (Order 19-59A) Produced water is disposed into Dakota and Siluro-Devonian formations (Orders 16-59, 17-65, 36-66, 9-A-77) into Madison formation (Order 59-A-78) and into Dakota and Muddy formations. (Order 61-A-84) SWD approved EPA 86.
OUTLOOK, SOUTH Winnipegosis	1	0	0	160-acre spacing; permitted wells in either SW 1/4 or NE 1/4 of quarter section; 175' topographic tolerance. (Orders 19-59A) Commingling permitted. (Order 45-64) Produced water disposed into Muddy and Dakota formations. (Order 17-65).
OUTLOOK, WEST Winnipegosis	2	0	0	160-acre spacing units consisting of quarter sections; permitted wells in either SW 1/4 or NE 1/4 with a tolerance of 175'. (Order 7-67) Produced water disposed into Dakota formations. (Order 42-66)
OXBOW Red River	1	0	0	320-acre spacing units consisting of two contiguous governmental quarter sections which may be in one or two governmental sections lying east-west or north-south at operator's option. Location to be no closer than 660' to the unit boundary or closer than 1,650' to a well producing from same pool. (Order 7-78) Field enlargement. (Order 137-80)
OXBOW II Red River	1	0	0	320-acre spacing units consisting of two contiguous quarter sections which may cross section lines; wells located no closer than 660' to spacing unit boundaries. (Order 50-84)
PALAMINO Nisku	5	0	0	Statewide. Produced water disposed into the Dakota formation. (Order 6-A-82, 58-A-82) SWD approved EPA 86.
PARK CITY Virgelle	0	1	0	Statewide
PELICAN Red River	1	0	0	320-acre spacing units; wells to be located no closer than 660' to any governmental section or quarter section line boundary. (Order 21-79)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
PENNEL Silurian-Ordovician	183	0	25	80-acre spacing units consisting of E and W 1/2 of quarter section; wells located in center of SE 1/4 and NW 1/4 of quarter sections with 150' topographic tolerance. (Order 15-61) 80-acre spacing units on west side and 160-acre spacing units on east side of pool. Wells to be located in SE 1/4 and NW 1/4 of each quarter section (80 acres) and in SE 1/4 of each quarter section on 160-acre spacing. (Orders 1-56, 8-56, 15-61, 20-62, 4-63, 7-63) Commingling approved. (Order 59-62) Produced water is being injected into Dakota, Siluro-Ordovician and Madison formations. (Orders 16-60, 46-62, 68-62, 36-63, 13-64) Waterflood for Siluro-Ordovician approved November 1968. (Order 24-68) Enhanced recovery approved EPA 86. SWD approved EPA-87.
PETE CREEK Sunburst	1	0	0	Statewide.
PHANTOM Sunburst	0	2	4	Gas: wells permitted anywhere within the unit but no closer than 990' to the unit boundary. Oil: Projected depths greater than 6,000' to be located no closer than 660' to the unit boundary. Project depths less than 6,000' to be located no closer than 330' to the unit boundary. (Order 48-77)
PHANTOM, WEST Sunburst	0	1	0	One well per spacing unit to be located no closer than 660' to the exterior boundaries of three certain spacing units. (Order 65-78)
PINE Madison Silurian-Ordovician	1 102	0 0	2 27	Statewide spacing rules are waived within the Pine Unit. 80-acre spacing units outside of unit area; well location in NW 1/4 and SE 1/4 of quarter section; 150' topographic tolerance. (Order 37-62) Gas through extraction plant. A waterflood program for the south area was started in 1959. A waterflood of the north area was approved in 1967. (Orders 13-68, 1-60, 8-62, 32-67) Produced water injected into Mission Canyon. (Order 10-A-74) Brine and CO ₂ injection test. (Order 70-83) Enhanced Recovery Approved EPA-85.
PIPELINE Red River	1	0	0	Statewide
PLENTYWOOD Winnipeg	0	0	1	Statewide.
POLICE COULEE Bow Island	0	7	2	320-acre spacing units; location no closer than 990' from section line and 660' from 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) Extended field boundaries. (Order 24-77) Field enlargements. (Orders 20-79 and 46-79)
PONDERA Madison Sun River Morrison	372 13 1	0 0 0	32 2 0	Oil: 220' from legal subdivision, 430' from other wells in same reservoir on same lease; 75' topographic tolerance. Porter Bench Extension: 330' from legal subdivision line; 650' from other wells in same reservoir on same lease or unit; 75' topographic tolerance. (Order 9-54) Gas: Well to be located no closer than 1,320' from the boundaries of any quarter section line, nor less than 3,700' from every other drilling or producible well on the same lease or unit. (Order 9-54 corrected) Amend Order 9-54 to designate 160-acre spacing units for gas with wells to be located no closer than 660' from unit boundaries. (Order 26-83) Produced water injected into lower Madison. (Orders 11-56, 15-56, 4-65, 4-66, 20-A-71, 57-A-78, 58-A-78, 62-A-78, 71-A-78, 29-A-79, 62-A-79, 63-A-79, 64-A-79, 65-A-79, 14-A-80, 15-A-80, 16-A-80, 17-A-80, 127-A-81, 108-A-82, 7-A-82, 1-A-83, 30-A-84) SWD approved EPA 86, 87.
PONDERA COULEE Madison Sun River	3 5	0 0	0 0	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance. (Order 5-62)
POPLAR, EAST Heath Madison Nisku	1 58 1	0 0 0	1 6 0	Statewide spacing; field delineated by Order 7-55. Redelineation of field. (Order 25-76) Unitized in 1955. (Order 7-55) Excess produced water has been injected into the Dakota, Judith River, and Mission Canyon formations. (Orders 1-55, 5-57, 7-57, 14-61, 21-61, 34-61, 10-62, 51-67, 10-A-73, 127-A-80, and 121-A-81) SWD approved EPA 86, 87.)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
POPLAR, NORTHWEST AND AREA				
Charles	31	0	4	80-acre spacing units consisting of E 1/2 and W 1/2 of each quarter section; permitted wells to be located in the center of NW 1/4 or SE 1/4 of each quarter section with 75' tolerance allowed in any direction for surface hazards and obstructions. (Order 18-55) 80-acre specifically designated spacing units with well location to be located in the center of the NW 1/4 or SE 1/4 of each quarter section with a tolerance of 150' in any direction for topographic or geologic reasons. (Order 26-76) 80-acre spacing units to be N 1/2 and S 1/2 or E 1/2 and W 1/2 of each quarter section; permitted well to be located in center of each NE 1/4 or SW 1/4 of each quarter section with 150' tolerance for topographic or geologic reasons. (Orders 124-80, 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 with location to be in center of each NE 1/4 of SW 1/4 of each quarter section with 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 with wells to be located in center of the NE or SW quarter of each quarter section with 150' topographic or geologic tolerance. (Order 42-83) Produced water disposed into Dakota. (Order 61-A-78, 128-A-82, 62-A-83) Produced water disposed into the Judith River formation. (Orders 13-A-82 and 14-A-82) SWD approved EPA-85, 86.
PRAIRIE DELL				
Bow Island-Dakota-Sunburst-Swift	0	55	0	320-acre spacing units with well location no closer than 660' to spacing unit boundary. (Order 10-76) Redelineation and amendment to Order 10-76. Field enlargement by Orders 28-78, 24-79, 132-80, 40-81, 54-81, 142-81, 56-83, 9-85, 60-86 and 12-87).
PRAIRIE DELL, WEST				
Swift	0	1	0	Statewide
PRAIRIE ELK				
Charles C	2	0	0	Statewide.
PRICHARD CREEK				
Bow Island	0	0	2	Well locations subject to administrative approval. Unitized as to Sunburst for water injection. (Order 7-73)
Sunburst	1	0	5	
Swift	1	0	0	
PRONGHORN				
Red River-Interlake	5	0	0	160-acre spacing units; wells located no closer than 660' from unit boundary with 150' topographic or geologic tolerance. (Orders 75-84 and 110-84)
PUMPKIN CREEK				
Shannon	0	0	2	Statewide. Delineated. (Order 10-71)
PUTNAM				
Interlake	5	0	0	Statewide, except for single spacing unit consisting of portions of Sections 15 and 16, T23N, R57E for production from all formations between 6,000 to 11,000 feet. (Order 2-84 amended by Order 11-85)
Madison	5	0	0	
Red River	7	0	0	
RABBIT HILLS				
Sawtooth	2	0	0	Statewide
RABBIT HILLS, NORTHEAST				
Sawtooth	5	0	0	Statewide.
RABBIT HILLS, SOUTHWEST				
Sawtooth	1	0	0	Statewide.
RAGGED POINT				
Tyler	5	0	6	40-acre spacing units; 75' topographic tolerance. (Order 8-59) Spacing waived for Tyler "A" sand reservoir within Tyler "A" Sand Unit except no well can be closer than 660' to unit boundary. (Order 35-65) A waterflood project on the Tyler "A" sand was commenced in February 1966, using Third Cat Creek water. (Order 35-65)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
RAGGED POINT, SOUTHWEST Tyler	12	0	0	Applicants may drill and produce wells to the Tyler "A" formation anywhere within the unit but not closer than 330' to the unit boundaries. (Order 83-82) Tyler "A" waterflood unit agreement approval effective August 1, 1982. (Order 83-82)
RAINBOW Red River	1	0	0	Single spacing unit. (Order 69-82)
RAPELJE Eagle-Virgelle-Clagget	0	14	1	160-acre spacing. Wells no closer than 990' to unit boundary. Commingling after administrative approval. (Order 29-73)
RATTLER BUTTE Tyler	5	0	1	Statewide.
RATTLESNAKE BUTTE Amsden Cat Creek	4 2	0 0	3 0	Statewide. SWD approved EPA 86, 87.
RATTLESNAKE COULEE Bow Island Sunburst	0 1	0 1	2 0	Statewide.
RAYMOND Duperow Mississippian Nisku Red River Winnipegosis	0 6 1 2 2	1 0 0 0 0	0 3 0 0 0	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) Produced water injected into Dakota formation. (Order 38-A-74) Produced water injected into Mission Canyon. (Order 105-A-79 and 113-A-80) Produced water injected into Ratcliffe formation. (Order 131-A-81) Authorization to inject gas into the Nisku formation. (Order 135-81)
RAYMOND, NORTH Red River	1	0	0	Single spacing unit. (Order 94-82)
REAGAN Madison	53	4	14	Statewide. (Order 17-54) A pressure maintenance project utilizing gas injection was started in 1961. (Order 21-60) Waterflood. (Order 27-72)
RED BANK Madison Red River	11 3	0 0	1 0	Statewide. Produced water disposed into the Dakota formation. (Order 10-A-82)
RED BANK, SOUTH Red River	1	0	0	Statewide.
RED CREEK Cut Bank-Madison	18	0	3	40-acre spacing units; wells in center of spacing unit with 75' topographic or obstruction tolerance; spacing and field rules waived for unitized portion. (Orders 16-58, 73-62, 31-64, 5-70) Excess produced water injected into Bow Island and Madison. (Orders 22-63, 37-64, 40-A-83, and 19-A-84) A waterflood project in the Cut Bank sand was initiated in June 1965, using Madison water. Enhanced recovery approved EPA 86, 87.
RED FOX Nisku	1	0	0	Field consists of one 160-acre spacing unit which straddles the section line. (Order 20-67)
RED ROCK Eagle Judith River	0 0	2 1	1 1	Spacing units shall consist of the N 1/2 and S 1/2 of section with permitted well to be no closer than 990' from exterior section line nor closer than 660' to half section line. (Order 89-79)
RED WATER Duperow	0	0	1	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
RED WATER, EAST Red River	1	0	0	320-acre spacing units consisting of 2 contiguous quarter sections with permitted well to be no closer than 660' to exterior boundaries of spacing unit. (Order 31-83)
REDSTONE Winnepigosis	1	0	0	One well per 160-acre unit, but no closer than 660' from unit boundary. (Order 30-67)
REFUGE Red River	1	0	0	Statewide.
REPEAT Red River	1	0	0	Statewide.
RESERVE Red River Winnepigosis	3 1	0 0	0 0	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) Excess water injected into Dakota sand. (Order 23-A-67) SWD approved EPA-85.
RESERVE II Red River	1	0	0	Single 160-acre spacing unit. (Order 44-87)
RESERVE, SOUTH Red River	1	0	0	Single spacing unit. (Order 33-86)
RICHEY AND AREA Charles	4	0	1	Statewide. Original 80-acre spacing revoked. (Order 11-73)
RICHEY, EAST Charles	0	0	1	Statewide.
RICHEY, SOUTHWEST Interlake	1	0	0	160-acre spacing units; wells no closer than 900' from boundary of spacing unit. (Order 25-62) A waterflood project in the Interlake and Dawson Bay was started in 1965. (Order 34-65)
RIDGELAWN Duperow Madison Red River	5 24 4	0 0 0	1 2 0	Statewide. SWD approved EPA 86.
RIPRAP COULEE Ratcliffe	5	0	0	160-acre spacing units; wells located no closer than 660' from spacing unit boundary with 150' topographic and geologic tolerance. (Order 93-84)
RIVER BEND Red River	1	0	0	Statewide.
ROCKY BOY AREA Eagle	0	7	0	Statewide.
ROCKY POINT Red River	1	0	1	320-acre spacing unit; well to be located no closer than 660' from exterior boundary. (Order 22-79)
ROSCOE DOME Lakota	0	0	3	Statewide. Steam injection into Greybull and Lakota formations. (Order 40-82)
ROSEBUD Tyler	5	0	0	Statewide.
ROYALS Dawson Bay	1	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
RUDYARD				
Eagle	0	2	0	640-acre spacing units consisting of one section; well location in center of NW 1/4 of section with 75' topographic tolerance. (Order 2-58) Field boundaries reduced. (Order 39-76)
Sawtooth	0	5	0	
RUNAWAY				
Madison	1	0	0	Statewide.
RUSH MOUNTAIN				
Winnipegosis	1	0	0	Statewide. Dual zone completion in discovery well. Commingling approved. (Order 17-85) Excess water injected into Dakota Sand. (Order 5-A-71) SWD approved EPA-87.
Red River	0	0	1	
SAGE CREEK				
Blackleaf	0	1	0	640-acre spacing, one producing well per section per formation above the Kootenai to be located no closer than 990' from section line. (Order 38-77) Amended field boundary. (Order 86-79) Field enlargement. (Order 33-81, 65-83 and 36-84)
Bow Island	0	1	0	
Second White Specks	0	15	2	
SALT LAKE				
Nisku	3	0	0	Statewide. Produced water disposed into Nesson (Madison) formation. (Order 61-A-80)
Ratcliffe	1	0	0	
Red River	2	0	0	
SAND CREEK				
Interlake	3	0	1	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Wells located in center of NW 1/4 and SE 1/4 of each quarter section. (Order 16-59) Commingling of production from Interlake and Red River authorized. (Order 49-62) Excess produced water is injected into the Swift formation. (Order 9-61) SWD approved EPA 86.
SANDWICH				
Swift	0	1	0	320-acre spacing unit. Well located no closer than 990' to spacing unit boundaries. (Order 17-77)
SATURN				
Ratcliffe	0	0	1	Statewide.
SAWTOOTH MOUNTAIN & AREA				
Eagle	0	31	3	640-acre spacing units, one well per section per formation, location to be not less than 990' from governmental section line. (Order 45-76) Amended to allow one well per formation per quarter section in six sections. Wells no closer than 660' to quarter section lines and 990' to section lines. (Order 65-85)
Judith River	0	3	3	
SECOND CREEK				
Duperow	0	0	1	303.1-acre Red River spacing unit. (Order 34-78) (Order 127-A-82) 160-acre Duperow spacing units; well locations for each unit to be as specified by Order 119-80. Produced water injected into Dakota/Lakota formations.
Red River	4	0	0	
SHEEPHERDER				
Tyler	2	0	0	Statewide. Waterflood of Tyler "A" authorized May 1984. (Order 33-84) Amended. (Order 107-84)
SHELBY AREA				
Sunburst	0	2	0	Statewide
SHERARD				
Eagle	0	32	31	640-acre spacing units; 990' from section line. (Order 1-74) 160-acre spacing units; (Eagle) 990' from section line, 660' from quarter section line. (Order 7-77) Enlarged field boundary with well locations no closer than 660' from quarter section line in enlarged area. (Order 4-83) 320-acre Eagle gas spacing units for Sections 19 and 30, T26N, R17E; wells located no closer than 990' to unit boundaries. (Order 24-87)
Judith River	0	2	3	
SHOTGUN CREEK				
Ratcliffe	3	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
SIDNEY				
Madison	17	0	8	160-acre spacing units for Madison Group. One well per spacing unit to be located no closer than 660' from unit boundary and no closer than 1,650' to well producing from the same formation. (Order 5-79) Field enlargement. (Order 99-80) Excess water injected into Dakota formation. (Order 41-A-78) SWD approved EPA 86.
Red River	2	0	0	
SIDNEY, EAST				
Madison	9	0	0	Statewide.
SINGLETREE				
Winnepegosis	1	0	0	Single spacing unit. (Order 78-84) Produced water disposed into Dakota formation. (Order 59-A-80)
SIOUX PASS				
Mission Canyon	1	0	0	320-acre spacing units consisting of two adjacent governmental quarter sections lying north-south or east-west at operator's option. Permitted well no closer than 660' from unit boundary. (Interlake and Red River) 160-acre spacing unit (Mission Canyon) with well no closer than 660' from unit boundary. Commingling of Interlake and Red River production authorized. (Order 10-75) Amended field boundary. (Order 15-77) Field reduction. (Order 89-81) Excess water injected into Dakota formation (Order 15-A-75) SWD approved EPA 86.
Red River	7	0	0	
Interlake	1	0	0	
SIOUX PASS, EAST				
Red River	2	0	0	Statewide.
SIOUX PASS, MIDDLE				
Red River	6	0	0	320-acre spacing units to consist of two contiguous governmental quarter sections at operator's option. Location to be no closer than 660' from exterior boundary of unit and no closer than 1,650' from well producing from same formation. Commingling permissible with Administrative approval. (Order 55-76) An exception to Order 55-76 by (Order 39-81).
SIOUX PASS, NORTH				
Duperow	0	0	1	320-acre spacing units with well locations at least 660' from unit boundary. (Order 12-75) Commingling approved. (Order 17-76) Field amendments. (Order 8-79, 10-81, and 13-86) Field extensions. (Orders 12-77, 13-79 and 48-81) Produced water injected in Dakota-Lakota formations. (Order 34-A-75) Two 320-acre spacing units. (Orders 107-80, 74-82)
Madison	4	0	0	
Red River	15	0	2	
Red River/Nisku	1	0	0	
SIOUX PASS, SOUTH				
Red River	2	0	0	Statewide.
SNOOSE COULEE				
Bow Island	0	6	2	640-acre spacing units; location no closer than 990' from spacing unit boundary. Bow Island and shallower formations. (Order 18-77)
Swift	1	0	0	
SNYDER				
Tensleep	2	0	2	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance. (Order 45-62)
SOAP CREEK				
Madison-Amsden	22	0	2	One well per 10-acre spacing unit per producing formation; well location in center of spacing unit with 100' topographic tolerance. (Order 26-60)
Tensleep	9	0	2	
SOAP CREEK, EAST				
Tensleep	3	0	0	Statewide.
SOBERUP COULEE				
Bow Island	0	1	0	Statewide.
SOUTH FORK				
Mission Canyon	0	0	1	Statewide. SWD approved EPA-87.
Red River	3	0	0	
SPRING COULEE				
Sawtooth	0	3	0	Statewide.

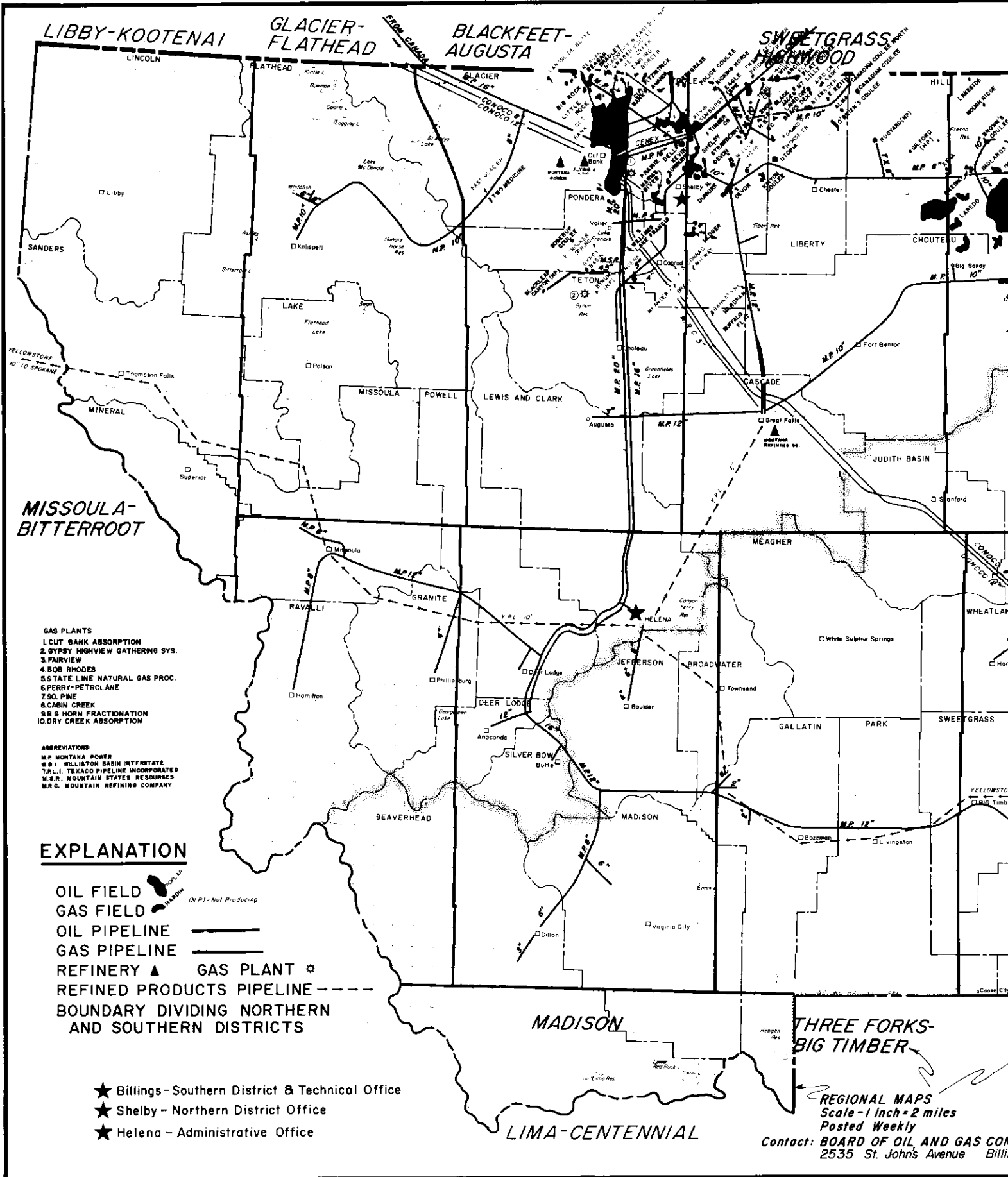
Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
SPRING LAKE				
Bakken	1	0	0	One well per 160-acre spacing unit. Well location anywhere within 840' square in center of spacing unit. (Order 6-63) Field redelineation. (Orders 30-76, 49-76)
Red River	2	0	0	
SPRING LAKE, SOUTH				
Red River	1	0	0	Single spacing unit. (Order 81-81)
SPRING LAKE, WEST				
Bakken	1	0	0	Single spacing unit. (Order 42-82)
STAMPEDE				
Duperow	1	0	0	320-acre specified spacing units for the Red River formation. 160-acre spacing units for the Duperow formation with well location to be no closer than 660' from a spacing unit boundary line. (Order 19-82)
Red River	1	0	0	
STENSVAD				
Tyler	9	0	7	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' from unit boundary. (Order 5-65, amended) SWD approved EPA 86.
STRAWBERRY CREEK AREA				
Bow Island	0	0	1	Statewide.
Burwash	0	1	0	
STUDHORSE				
Stensvad	2	0	3	Statewide.
Tyler	0	0	1	
SUMATRA				
Amsden-Tyler	72	1	80	40-acre spacing units; well located in center of unit with 75' tolerance. (Order 14-58) Field redelineated. (Order 14-75) Vacuum pumps permitted on certain wells. (Orders 99-79 and 32-80) Seven waterflood units using Madison water. (Orders 48-67, 6-69, 19-69, 23-69, 5-75, 21-78, and 43-80) Produced water disposed into Madison formation. (Order 7-A-76) Convert CTSU, SESTSU and Kincheloe Sumatra Unit to tertiary recovery projects. (Orders 99-84, 100-84 and 29-85)
Heath	1	0	0	
Madison	0	0	1	
SUNNYHILL				
Madison	2	0	0	320-acre spacing units; location to be no closer than 660' to the section or quarter section line which is the exterior boundary of the unit nor closer than 1,650' to any well producing from same formation. (Order 39-78) Field boundaries reduced. (Order 79-84) Produced water disposed into Dakota formation (Order 27-A-80)
Red River	1	0	0	
SUNNYHILL, WEST				
Red River	1	0	0	Statewide. SWD approved EPA-85.
SWANSON CREEK				
Bowdoin-Greenhorn-Phillips	0	59	1	320-acre spacing units; (Order 36-75) amended to enlarge field and provide that spacing units may run north-south or east-west with permitted wells to be no closer than 990' to section or quarter section lines. (Order 11-78) Field boundaries extended by Orders 32-78, 92-79, 66-80 and 55-81. All previous Swanson Creek orders are amended to allow one additional well in each existing 320-acre spacing unit that shall be drilled in a manner that there be no more than one well per quarter section and located no closer than 660' to the quarter section boundaries. (Order 28-82)
SWEETGRASS				
Sunburst	0	2	0	Single spacing unit. (Order 121-82)
TARGET				
Madison	7	0	5	Single spacing unit for Mission Canyon/Ratcliffe formations. (Order 18-82) Amendment to Order 18-82 for field enlargement and establishing 160-acre spacing units with permitted well locations to be no closer than 660' from the unit boundaries. 150' tolerance for topographic reasons. (Order 35-82) Field enlargement. (Order 23-84) SWD approved EPA 86.
THIRTY MILE				
Sawtooth	1	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
THREE BUTTES				
Red River-Gunton	2	0	0	160-acre spacing units, well location no closer than 660' from governmental quarter section line or unit boundary. (Order 11-81).
Mission Canyon	1	0	0	
THREE MILE				
Eagle	0	4	2	Statewide.
TIBER				
Bow Island	0	1	0	Spacing allows one well for each gas producing horizon to be located anywhere within the section but no closer than 990' to the section line. (Order 143-81) Enlarged. (Order 21-84) Two wells for each formation per section no closer than 1,320' to each other in each section. (Order 28-85).
TIBER, EAST				
Bow Island	0	7	0	One well per governmental section located no closer than 990' to section lines. (Order 21-84) Two wells for each formation per section no closer than 1,320' to each other in each section. (Order 28-85).
TIGER RIDGE & AREA				
Eagle	0	264	47	Field delineation and redelineations. (Orders 17-67, 23-68, 10-70, 13-75, 46-78, 48-79, and 26-80) Statewide spacing for field area not unitized. Spacing rule amendments. (Orders 11-72, 41-72, 32-73, 37-75, 51-77, 52-77, 79-79, 26-80, 50-80, 51-80, 54-80, 26-82, 14-84, 26-85, 48-85, 49-85, and 56-85) Excess produced water injected into Eagle formation. (Orders 19-A-73, 46-A-75) (Order 19-A-73) Amended by Order 60-A-78. SWD approved EPA-87.
Judith River	0	1	0	
TIGER RIDGE, NORTH				
Eagle	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				
Sunburst	0	0	1	Statewide.
TIPPY BUTTES				
Tyler	1	0	0	Statewide. Water injection into lower Tyler formation. (Order 57-82)
TRAIL CREEK				
Bow Island	0	5	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)
Swift-Sunburst	0	3	0	
TULE CREEK				
Nisku	3	0	1	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) Produced water injected into Dakota and Judith River formations. (Orders 12-66, 24-67, 8-A-76, 134-A-81) Produced water disposed into Dakota formation. (Order 38-A-82) SWD approved EPA 86.
Devonian	1	0	0	
TULE CREEK, EAST				
Nisku	1	0	0	160-acre spacing units with permitted well anywhere within 1,320' square in center of each unit. (Orders 40-64, 6-65, 4-86) Water injected into Judith River formation. (Order 13-68) Water injected into Nisku formation. (Order 28-A-79)
TULE CREEK, SOUTH				
Nisku	1	0	1	160-acre spacing units with permitted well anywhere within a 1,320' square in center of each unit. (Orders 34-64, 6-65) Authority given to dispose of produced water into Dakota. (Order 44-64) Into Judith River formation. (Order 29-67)
TWO FORKS				
Eagle	0	0	1	Statewide.
Judith River	0	0	1	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
TWO WATERS				
Bakken	2	0	0	Statewide.
Red River	1	0	0	
UTOPIA				
Bow Island	0	4	0	640-acre spacing units for Bow Island and Sawtooth; well location may be anywhere within the unit but no closer than 990' to any governmental section line. (Order 13-80)
Sawtooth	0	2	0	
Swift	26	0	1	
VANDALIA				
Bowdoin	0	7	0	160-acre spacing units; where discrete gas formations (Bowdoin, Greenhorn, and Phillips) exist a well may be drilled to each discrete formation and to be located no closer than 660' to the unit boundaries. (Order 61-82)
Green Horn	0	0	1	
Phillips	0	1	0	
VAUX				
Interlake	2	0	0	Statewide. Single spacing unit with commingling approved for Madison group. (Order 63-83)
Madison	18	0	0	
Red River	5	0	0	
Stonewall	1	0	0	
VIDA				
Interlake	1	0	0	160-acre spacing units with permitted well anywhere within an 840' square in center of each unit. (Order 39-63) Field area reduction. (Order 79-76)
VOLT				
Madison	1	0	0	160-acre spacing units with permitted well anywhere within a 1,320' square in center of each unit. (Orders 27-64, 6-65, 32-65) Statewide.
Nisku	4	0	1	
Excess produced water is disposed into Judith River. (Orders 3-65, 37-A-74) SWD approved EPA-87.				
WAGON BOX				
Tyler	0	0	2	Statewide.
WAGON TRAIL				
Red River	0	0	1	Statewide. Single 320-acre spacing unit. (Order 2-83)
WAKEA				
Red River-Interlake	5	0	0	Two 320-acre spacing units. (Order 84-83) Field enlarged. (Order 34-84) Wells located no closer than 660' to spacing unit boundaries.
Winnipegosis	2	0	0	
Nisku	1	0	0	
WEED CREEK				
Amsden	2	0	0	Statewide.
WELDON				
Kibbey	0	0	2	80-acre spacing unit; each quarter section divided into two separate units running in either a north-south or east-west direction; well location in center of NE 1/4 and SW 1/4 of quarter section with 200' topographic tolerance. (Order 9-65)
Excess produced water is disposed into the Dakota, Lakota, Morrison, Charles, and Kibby formations. (Orders 31-65, 47-65, 37-66, 16-67, 51-A-81, 118-A-81, 128-A-81)				
WEST BUTTE				
Bow Island	0	1	0	Statewide, except W 1/2 Section 16 is considered a single spacing unit. Sawtooth-Madison gas commingled, unitized. (Order 5-72) No well closer than 330' from unit boundary.
Sunburst	3	1	2	
WEST BUTTE SHALLOW GAS				
Bow Island-Dakota	0	2	0	160-acre spacing units; with one well to be permitted to produce from each individual gas producing formation above the top of the Kootenai to the surface within each 160-acre spacing unit. Well locations to be anywhere within the spacing unit but not closer than 990' from the spacing unit boundaries. (Order 39-77)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
WHITEWATER, EAST				
Bowdoin-Greenhorn-Phillips	0	13	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)
WHITLASH				
Bow Island-Dakota-Spike	3	27	8	Gas: 300' from legal subdivision line and 2,400' between wells, 75' topographic tolerance. Oil: 330' from legal subdivision line and 650' between wells; 5-spot location at center of 40-acre tract permitted; 75' topographic tolerance. (Orders 16-54, 27-70) Order 16-54 amended to include S 1/2 of Section 30, T37N, R4E. SW 1/4 of 30 is 1 spacing unit, SE 1/4 is the other. Well location no closer than 990' from spacing unit boundary. (Order 45-81)
Madison	0	1	0	
Swift-Sunburst	66	5	14	
WHITLASH, WEST				
Bow Island	0	1	0	Gas: 160-acre spacing units consisting of quarter sections; well location anywhere within a 660' square in center of spacing unit. Oil: 330' from legal subdivision line, 650' between wells in same reservoir on same lease; 5-spot location permitted. (Orders 61-62, 22-65 as amended) Orders 61-62 amended by Order 48-77. Field extension. (Order 18-79)
Swift-Sunburst	4	6	5	
WILLIAMS				
Bow Island	0	17	2	640-acre spacing unit; well to be located no closer than 990' to exterior boundary for all formations above the Kootenai. (Order 49-79) Amendment enlarging field boundary. (Order 102-79, 11-83)
WILLOW CREEK, NORTH				
Tyler	3	0	1	Statewide. Pilotflood. (Order 19-72)
WILLOW RIDGE				
Bow Island	0	12	4	640-acre spacing units; location to be no closer than 990' to unit boundary for gas production from all formations to the top of the Kootenai. (Order 29-78) 40-acre spacing units with permitted 5 wells; well may be located in the center of each 10 acre quarter-quarter section and one in the center of each 40-acre subdivision with a 75' topographic tolerance allowed. (Order 30-78)
Burwash	4	0	0	
Dakota	0	1	0	
Sunburst	0	1	0	
Swift	0	1	0	
WILLOW RIDGE, SOUTH				
Sunburst	1	3	0	Statewide.
WILLS CREEK, SOUTH				
Silurian-Ordovician	3	0	0	160-acre spacing units. Well location in center of SE 1/4 of each unit with 175' topographic tolerance. (Orders 5-64, 30-66) Waterflood initiated 12-1-73. (Order 23-73)
WINDMILL				
Duperow	0	0	1	Statewide.
Red River	1	0	0	
WINNETT JUNCTION				
Tyler	3	0	1	20-acre spacing units. Units to be designated as W 1/2 and E 1/2 of quarter-quarter section, no closer than 120' to the boundary of a spacing unit. (Order 57-76) Certain lands bound by Order 57-76 vacated by Order 41-77. A waterflood operation commenced October 1, 1977 into Tyler formation. (Order 41-77)
WOLF SPRINGS				
Amsden	6	0	1	80-acre spacing units consisting of N 1/2 and S 1/2 of each quarter section. Well location in center of NW 1/4 and SE 1/4 of each quarter section with 75' topographic tolerance. (Orders 4-56, 9-59) Field area reduction. (Order 92-76)
WOLF SPRINGS, SOUTH				
Amsden	6	0	1	80-acre spacing units 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)
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) Produced water injected into Dakota. (Order 48-62)
Siluro-Ordovician	1	0	3	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
WRANGLER Red River	2	0	0	320-acre spacing units consisting of W 1/2 and E 1/2 of S25 T34N R56E. (Order 44-85)
WRANGLER, NORTH Red River	1	0	0	Statewide.
WRIGHT CREEK Muddy	6	0	1	80-acre spacing units consisting of N 1/2 and S 1/2 of quarter section with locations in NW 1/4 and SE 1/4 of each quarter section with 200' tolerance. Field area reduction. (Order 69-76) Excess produced water is disposed of into the Muddy formation. (Order 8-A-77) SWD approved EPA-87.
YATES Red River	1	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 spacing unit for Ratcliffe/Mission Canyon formations. (Order 22-86)
Ratcliffe	1	0	0	



LIBBY-KOOTENAI GLACIER-FLATHEAD BLACKFEET-AUGUSTA SWEETGRASS-HIGHWOOD

MISSOULA-BITTERROOT

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

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

EXPLANATION

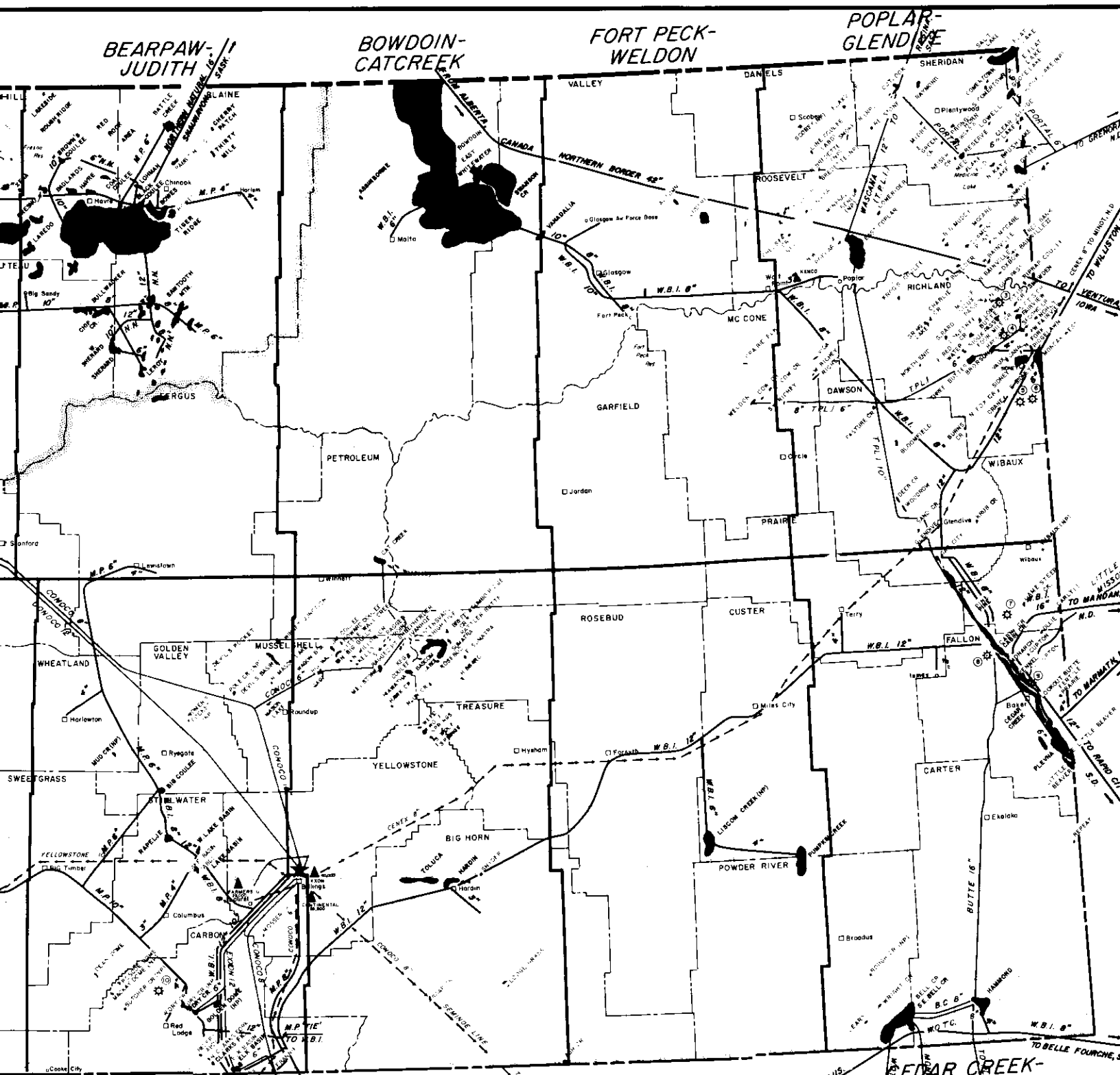
- OIL FIELD
- GAS FIELD
- OIL PIPELINE
- GAS PIPELINE
- REFINERY
- GAS PLANT
- REFINED PRODUCTS PIPELINE
- BOUNDARY DIVIDING NORTHERN AND SOUTHERN DISTRICTS

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

THREE FORKS-BIG TIMBER

REGIONAL MAPS
Scale - 1 inch = 2 miles
Posted Weekly

Contact: BOARD OF OIL AND GAS COM.
2535 St. Johns Avenue Billings



MONTANA
OIL AND GAS FIELDS, PIPELINES AND REFINERIES
 1987

U.S. DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT
 1415 N. BRIDGES BLVD.
 BILLINGS, MONT. 59102 (406) 656-0040

BOARD OF OIL AND GAS CONSERVATION

SUMMARY OF PRODUCING OIL FIELDS

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	(M BBLs)
											PRIMARY	SECONDARY		
1.	Anvil	Nisku	Roosevelt	1981	10,900	40	1.50	14	17	34	88	—	160	1,300
2.	Anvil	Ratcliffe	Roosevelt	1982	8,990	36	1.35	22	11	50	8	—	320	2,225
3.	Anvil	Red River	Roosevelt	1978	12,600	47	1.63	26	14	32	13	—	2,560	33,159
4.	Ash Creek	Shannon	Big Horn	1952	4,500	34	1.00	14	22	42	26	5	200	2,772
5.	Bainville	Siluro—Ord	Roosevelt	1969	12,402	44	—	—	—	—	—	—	1,600	—
6.	Bainville II	Red River	Roosevelt	1981	12,700	42	1.20	40	10	35	4	—	640	10,758
7.	Bainville, North	Ratcliffe	Roosevelt	1980	8,800	30	—	13	14	52	—	—	160	—
8.	Bainville, North	Red River, Interlake	Roosevelt	1979	12,400	43	1.55	40	9	32	4	—	2,240	27,446
9.	Bainville, North	Winneposis	Roosevelt	1979	11,400	44	1.60	35	7	20	9	—	960	9,123
10.	Bainville, West	Madison	Roosevelt	1978	9,500	45	1.40	18	6	65	6	—	160	335
11.	Bainville, West	Red River	Roosevelt	1978	8,500	34	1.50	12	6	45	11	—	960	1,966
12.	Bannatyne	Swift	Teton	1927	1,500	27	1.05	39	15	43	2	—	1,040	25,623
13.	Bears Den	Swift	Liberty	1924	2,300	39	1.08	20	9	35	24	—	280	2,353
14.	Bell Creek	Muddy	Powder River	1967	4,400	36	1.11	10	26	23	55	28	8,240	115,297
15.	Beanblossom	Lower Tyler	Garfield	1985	4,562	—	—	—	—	—	—	—	480	—
16.	Benrud	Madison	Roosevelt	1983	7,864	40	—	—	—	—	—	—	160	—
17.	Benrud, East	Nisku	Roosevelt	1962	7,500	46	1.37	22	15	30	36	—	640	3,372
18.	Benrud, Northeast	Nisku	Roosevelt	1964	7,400	46	1.40	23	16	30	49	—	160	2,284
19.	Big Muddy Creek	Madison	Roosevelt	1981	8,500	44	—	14	—	—	—	—	320	—
20.	Big Muddy Creek	Red River	Roosevelt	1975	11,900	48	1.72	11	14	36	21	—	1,280	5,690
21.	Big Wall	Amsden	Musselshell	1953	2,500	19	1.01	17	16	35	26	—	280	3,802
22.	Big Wall	Lower Tyler Unit	Musselshell	1948	3,000	31	1.02	22	17	40	33	1	1,220	20,822
23.	Big Wall	Upper Tyler Unit	Musselshell	1948	3,000	—	—	—	—	—	—	—	480	—
24.	Black Diamond	Nisku	Wibaux	1981	11,310	27	1.31	4	40	10	15	—	640	5,458
25.	Blackfoot	Devonian, Madison	Glacier	1957	3,500	30	1.10	15	15	35	17	22	360	3,713
26.	Bloomfield	Dawson Bay	Dawson	1984	10,500	41	1.38	15	2	25	37	—	320	405
27.	Bloomfield	Interlake, Red River	Dawson	1983	10,650	43	1.32	13	4	—	18	—	800	2,445
28.	Blue Hill	Red River	Richland	1977	12,600	48	1.35	32	10	60	4	—	640	4,708
29.	Blue Mountain	Red River	Wibaux	1984	11,949	31	1.25	20	18	15	1	—	320	6,077
30.	Border Non Unit	Sunburst	Toole	1929	2,400	31	1.08	22	15	30	18	—	120	1,991
31.	Border Old Unit	Sunburst	Toole	1929	2,400	31	1.08	22	15	30	12	2	480	7,965
32.	Bowes Sawtooth Unit	Sawtooth	Blaine	1949	3,300	19	1.02	32	12	31	14	—	3,760	75,774
33.	Box Canyon	Red River	Richland	1980	11,800	46	—	11	—	—	—	—	640	—
34.	Bradley	Madison, Sunburst	Glacier	1959	3,500	26	1.25	6	11	49	50	—	240	501
35.	Brady	Sunburst	Pondera	1942	1,500	34	1.01	10	12	30	7	—	400	2,581
36.	Breed Creek	Tyler	Roosevelt	1976	4,900	32	1.15	20	15	37	28	—	400	5,100
37.	Brorson	Madison	Richland	1954	9,600	32	1.40	40	5	40	14	—	1,760	11,703
38.	Brorson	Red River	Richland	1968	12,600	48	1.70	20	10	35	44	—	960	5,695
39.	South Brorson	Madison	Richland	1978	9,000	42	—	52	—	—	—	—	320	—
40.	South Brorson	Red River	Richland	1968	12,600	48	1.70	20	12	30	6	—	960	7,360
41.	Brush Lake	Red River	Sheridan	1969	11,400	40	1.50	30	14	35	10	—	2,240	31,628
42.	Burget, East	Madison	Roosevelt	1981	9,000	—	—	36	—	—	—	—	640	—
43.	Burget, East	Red River	Roosevelt	1980	12,800	45	—	55	—	—	—	—	320	—
44.	Cabin Creek Unit 2	Madison	Fallon	1956	7,300	33	1.13	25	11	30	50	—	2,260	23,868
45.	Cabin Creek Unit 1	Siluro—Ord	Fallon	1953	9,000	33	1.20	50	13	30	14	11	13,760	404,761
46.	Canal	Madison	Richland	1977	9,200	33	1.30	47	2	41	20	—	640	2,118
47.	Canal	Red River	Richland	1970	12,700	47	2.07	58	8	40	20	—	320	3,339
48.	Carlyle	Red River	Wibaux	1978	10,700	37	1.30	12	12	27	7	—	640	4,015
49.	Cat Creek West Dome	1st and 2nd Cat	Petroleum	1920	1,100	52	1.10	51	21	19	16	5	1,480	93,551
50.	Cat Creek East Dome	Ellis	Petroleum	1920	1,200	52	1.10	6	22	40	64	8	880	4,915
51.	Charlie Creek	Red River, Nisku	Richland	1976	9,900	42	1.60	12	6	35	56	—	640	1,452
52.	Charlie Creek, East	Red River	Richland	1980	11,900	45	—	27	—	—	—	—	640	—
53.	Charlie Creek, North	Madison	Richland	1983	10,207	—	1.80	—	—	—	—	—	160	—
54.	Chelsea Creek	Nisku	Roosevelt	1961	7,626	—	—	—	—	—	—	—	160	—
55.	Clear Lake	Madison	Sheridan	1978	7,600	33	1.15	10	5	30	38	—	960	2,267
56.	Clear Lake	Nisku	Sheridan	1979	9,000	43	1.53	31	11	27	2	—	320	4,039
57.	Clear Lake	Red River	Sheridan	1977	11,200	42	1.65	32	18	35	6	—	2,240	39,432
58.	Clear Lake, South	Red River	Sheridan	1984	11,500	38	1.39	10	23	21	2	—	640	6,490
59.	Coal Ridge	Mission Canyon	Sheridan	1979	7,550	—	—	—	—	—	—	—	160	—
60.	Colored Canyon	Red River, Nisku	Sheridan	1978	11,300	40	1.40	18	13	28	5	—	1,920	7,926
61.	Comertown	Nisku	Sheridan	1983	10,672	36	1.30	13	17	39	10	—	640	5,149
62.	Comertown	Ratcliffe	Sheridan	1981	6,807	30	1.20	16	26	—	2	—	480	12,909
63.	Comertown	Red River	Sheridan	1980	10,500	30	1.30	19	10	38	29	—	800	5,624
64.	Comertown, South	Red River, Nisku	Sheridan	1984	11,000	—	—	—	—	—	—	—	960	—
65.	Corner Pocket	Red River	Richland	1984	12,300	36	—	26	—	—	—	—	320	—
66.	Cottonwood	Red River	Richland	1984	12,870	—	—	5	—	—	—	—	320	—
67.	Cow Creek	Charles	McCone	1969	6,900	41	—	—	—	35	—	—	160	—
68.	Cow Creek, East	Kibby	McCone	1971	6,300	35	1.05	15	15	—	10	—	1,600	25,599
69.	Crane	Devonian	Richland	1979	11,900	47	1.65	20	12	35	16	—	1,280	9,389
70.	Crane	Siluro—Ord	Richland	1979	12,700	—	—	—	—	8	—	—	640	—
71.	Cupton	Red River	Fallon	1955	9,600	38	1.25	40	12	16	5	—	2,240	56,054
72.	Cut Bank	Cut Bank	Glacier, Toole	1932	2,900	31	1.09	18	15	35	40	6	27,360	341,756

SUMMARY OF PRODUCING OIL F

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCT AREA ACRES
											PRIMARY	SECONDARY	
73.	Dagmar	Red River	Sheridan	1976	11,300	37	1.65	22	16	35	4	—	1,280
74.	Dagmar, North	Madison	Sheridan	1983	7,952	—	—	24	—	—	—	—	160
75.	Deadmans Coulee	Nisku	Roosevelt	1981	7,500	45	1.10	10	11	40	12	—	640
76.	Dean Dome	Greybull	Stillwater	1966	2,500	10	—	2	—	—	—	—	240
77.	Deer Creek	Siluro—Ord	Dawson	1956	9,400	43	1.20	38	7	30	40	—	480
78.	Delphia	Amsden	Musselshell	1957	6,300	35	1.15	12	7	30	27	—	320
79.	Devils Basin	Amsden, Heath, Tyler	Musselshell	1919	1,200	24	1.02	11	17	22	2	—	560
80.	Devils Pocket	Heath	Musselshell	1920	2,030	—	—	—	—	—	—	—	320
81.	Diamond Point	Red River	Roosevelt	1976	11,900	47	—	26	—	—	—	—	640
82.	Divide	Madison, Ratcliffe	Sheridan	1979	7,900	33	1.35	25	7	42	14	—	2,240
83.	Dry Creek	Greybull	Carbon	1981	5,579	—	—	—	—	—	—	—	80
84.	Dry Creek	Eagle, Virgelle	Carbon	1929	2,600	65	1.01	60	15	65	47	—	360
85.	Dwyer Unit	Charles	Sheridan	1960	8,000	37	1.32	38	11	56	74	21	4,960
86.	Dwyer Non Unit	Ratcliffe	Sheridan	1960	8,000	—	—	—	—	—	—	—	1,440
87.	Dwyer	Red River	Sheridan	1982	11,552	35	—	—	—	—	—	—	1,600
88.	Eagle	Bakken, Duperow	Richland	1980	10,696	40	—	24	—	—	—	—	320
89.	Eagle	Madison	Richland	1977	8,900	32	1.22	15	9	35	8	—	3,040
90.	Eagle	Red River	Richland	1982	12,448	38	—	—	—	—	—	—	320
91.	Elk Basin	Frontier	Carbon	1915	1,400	—	—	—	—	—	—	—	400
92.	Elk Basin	Madison	Carbon	1942	5,300	28	1.12	224	12	9	2	—	1,080
93.	Elk Basin	Tensleep	Carbon	1942	5,000	29	1.16	124	11	10	23	—	1,400
94.	Elk Basin, Northwest	Madison, Tensleep	Carbon	1964	6,000	37	1.15	27	12	22	11	3	580
95.	Enid, North	Red River	Richland	1979	11,800	47	1.75	8	7	34	18	—	960
96.	Dutch John Coulee	Sunburst	Toole	1985	2,040	—	—	—	—	—	—	—	200
97.	Divide	Red River	Sheridan	1987	11,398	—	—	—	—	—	—	—	320
98.	Dwyer	Nisku	Sheridan	1987	9,120	—	—	—	—	—	—	—	160
99.	Fairview	Interlake	Richland	1983	12,120	44	1.40	10	6	49	6	—	320
100.	Fairview	Madison	Richland	1981	9,520	34	1.60	45	4	51	13	—	1,120
101.	Fairview Non Unit	Red River	Richland	1965	12,700	47	1.70	35	11	28	22	—	2,880
102.	Fairview NW Unit	Red River	Richland	1965	12,700	—	—	—	—	—	—	—	1,600
103.	Fairview, East	Red River	Richland	1981	12,800	48	1.50	24	13	32	3	—	960
104.	Fairview, West	Madison	Richland	1980	9,200	37	—	60	3	—	—	—	320
105.	Fertile Prairie	Red River	Fallon	1952	9,300	29	1.20	6	14	27	25	—	800
106.	Fishhook	Red River	Sheridan	1980	11,200	41	1.28	10	10	31	18	—	1,280
107.	Flat Coulee Non Unit	Swift	Liberty	1933	2,900	37	1.10	18	21	35	15	4	1,320
108.	Flat Coulee Unit	Swift	Liberty	1933	2,900	37	1.10	18	21	35	10	—	640
109.	Flat Lake	Madison, Nisku	Sheridan	1964	6,500	33	1.26	14	15	45	24	—	9,600
110.	Flat Lake, East	Madison	Sheridan	1984	6,523	28	—	—	—	—	—	—	160
111.	Flat Lake, South	Ratcliffe	Sheridan	1966	6,500	32	1.26	9	12	45	31	—	1,120
112.	Flaxville	Madison	Daniels	1982	7,200	—	—	—	—	—	—	—	480
113.	Fort Gilbert	Madison	Richland	1981	9,200	35	1.30	30	6	55	9	—	2,240
114.	Fort Gilbert	Red River	Richland	1970	12,500	48	1.89	42	12	20	7	—	1,280
115.	Four Mile Creek	Red River	Richland	1975	12,500	47	1.50	35	15	35	7	—	320
116.	Four Mile Creek West	Red River	Richland	1976	12,500	45	1.30	15	13	40	6	—	640
117.	Fox Creek	Stonewall	Richland	1978	8,900	29	1.20	71	3	30	3	—	160
118.	Frannie	Tensleep	Carbon	1929	2,700	27	1.02	29	19	16	28	—	80
119.	Fred & George Creek	Total Production	Toole	1963	2,600	39	1.20	31	27	30	15	14	1,480
120.	Frog Coulee	Red River	Richland	1979	11,000	49	1.42	15	18	35	8	—	320
121.	South Froid	Red River	Roosevelt	1970	12,100	48	1.55	12	17	25	10	—	320
122.	Gage	Amsden	Musselshell	1944	6,000	38	1.32	16	18	36	50	—	120
123.	Gas City	Red River, Madison	Dawson	1955	8,900	38	1.28	25	12	35	25	5	2,800
124.	Girard	Bakken, Red River	Richland	1966	11,839	40	1.15	18	10	8	6	—	640
125.	Glendive	Siluro—Ord	Dawson	1952	8,900	38	1.24	147	8	35	13	—	2,240
126.	Golden Dome	Greybull, Frontier	Carbon	1953	6,000	—	—	—	—	—	—	—	160
127.	Goose Lake	Ratcliffe	Sheridan	1962	7,000	34	1.20	40	16	55	4	3	6,880
128.	Goose Lake, West	Red River	Sheridan	1981	11,500	39	—	29	—	—	—	—	960
129.	Gossett	Madison	Richland	1979	9,550	31	—	—	—	—	—	—	320
130.	Gossett	Stoney Mountain	Richland	1983	12,331	—	—	11	—	—	—	—	640
131.	Graben Coulee	Cut Bank, Sunburst	Glacier	1961	2,900	34	1.10	15	12	30	7	—	3,640
132.	Grandview, East	Swift	Liberty	1978	2,500	30	—	8	17	55	—	—	160
133.	Green Coulee	Red River	Sheridan	1981	11,100	32	1.40	18	15	56	5	—	640
134.	Gunsight	Madison	Roosevelt	1980	9,550	36	—	—	—	—	—	—	480
135.	Gypsy Basin	Madison, Ellis	Pondera, Teton	1979	3,250	36	—	10	—	—	—	—	840
136.	Hardscrabble Creek	Red River	Richland	1981	12,550	46	1.36	7	15	30	4	—	640
137.	Hay Creek	Mission Canyon	Richland	1969	9,600	39	1.15	40	5	—	7	—	320
138.	Hay Creek	Siluro—Ord	Richland	1969	12,600	46	1.90	53	12	30	6	—	960
139.	Hiawatha	Tyler	Musselshell	1967	5,000	33	1.15	34	12	25	20	—	400
140.	High Five	Tyler, Stensvad	Rosebud	1976	5,600	33	1.15	20	20	—	11	—	960
141.	Highview	Madison	Pondera	1967	3,200	31	1.10	8	17	32	3	—	480
142.	Honker	Red River	Sheridan	1980	11,110	39	1.40	30	14	58	3	—	320
143.	Howard Coulee	Tyler	Musselshell	1974	3,498	31	—	—	—	—	—	—	160
144.	Intake II	Red River	Richland	1981	12,400	43	1.20	20	13	30	6	—	960

SUMMARY OF PRODUCING OIL FIELDS

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	(M)
											PRIMARY	SECONDARY		
145.	Jim Coulee Unit	Tyler	Musselshell	1971	3,700	33	1.10	37	15	33	3	13	1,920	50.3
146.	Jim Coulee, North	Tyler	Musselshell	1972	3,748	32	1.60	37	15	33	21	—	80	1.4
147.	Katy Lake	Red River	Sheridan	1984	11,523	—	—	11	—	—	—	—	640	—
148.	Katy Lake, North	Mission Canyon	Sheridan	1981	8,056	29	—	30	18	54	—	—	800	—
149.	Katy Lake, North	Nesson	Sheridan	1981	7,798	34	1.50	20	12	31	4	—	160	1.3
150.	Katy Lake, North	Red River	Sheridan	1979	11,300	46	1.42	19	15	30	18	—	1,920	20.9
151.	Keg Coulee Non Unit	Tyler, Stensvad	Musselshell	1960	4,650	—	—	—	—	—	—	—	160	—
152.	Keg Coulee Tyler SU	Tyler	Musselshell	1960	4,600	33	1.00	19	14	32	27	3	1,520	21.3
153.	Kelley	Tyler	Musselshell	1966	4,400	33	1.15	50	13	30	14	—	240	7.3
154.	Kevin East Nisku Oil	Nisku	Toole	1984	3,000	39	1.10	7	9	30	36	—	480	1.4
155.	Kevin Sunburst	Total Production	Toole	1922	1,500	32	1.08	7	20	35	23	3	48,760	318.7
156.	Kincheloe Ranch, W	Tyler	Rosebud	1979	5,500	35	—	—	—	—	—	—	200	—
157.	Laird Creek Unit	Swift	Liberty	1968	2,800	39	1.13	14	16	50	13	2	480	3.6
158.	Lambert	Red River	Richland	1980	12,200	44	—	7	13	40	—	—	1,280	—
159.	Lamesteer Creek	Red River	Wibaux	1984	10,228	39	1.30	8	11	33	3	—	320	1.1
160.	Landslide Butte	Madison, Sun River	Glacier	1967	4,700	41	—	24	—	—	—	—	520	—
161.	Leary	Muddy	Powder River	1969	5,800	41	1.15	7	17	33	29	—	400	2.1
162.	Little Beaver	Red River Non Unit	Fallon	1957	8,300	—	—	—	—	—	—	—	1,120	—
163.	Little Beaver Unit	Red River	Fallon	1952	8,300	29	1.29	37	12	35	9	23	4,160	72.2
164.	Little Beaver, East	Red River	Fallon	1954	8,300	30	1.50	24	13	35	37	—	1,600	16.7
165.	Little Phantom	Sunburst	Toole	1977	2,716	—	—	—	—	—	—	—	40	—
166.	Little Wall Creek	Tyler, Stensvad	Musselshell	1970	3,700	33	1.10	40	15	33	13	—	1,120	31.7
167.	Lodge Grass	Minnelusa	Big Horn	1964	6,520	—	—	—	—	—	—	—	640	—
168.	Lone Butte	Red River, Madison	Richland	1974	12,400	45	1.70	14	11	30	13	—	960	4.7
169.	Lonetree Creek	Red River	Richland	1970	12,500	47	1.86	19	11	30	20	—	3,200	19.5
170.	Long Creek	Charles	Roosevelt	1976	6,500	38	—	30	—	20	—	—	160	—
171.	Long Creek, West	Nisku	Roosevelt	1977	7,700	39	—	24	18	20	—	—	320	—
172.	Lookout Butte	Red River, Madison	Fallon	1961	8,900	33	1.15	15	15	25	30	19	7,840	89.2
173.	Lowell	Red River	Sheridan	1979	11,300	35	—	7	8	45	—	—	960	—
174.	Lustre	Madison	Valley	1982	7,200	33	1.19	27	16	45	4	—	7,840	121.4
175.	Lustre, North	Ratcliffe	Valley	1983	6,150	—	—	—	—	—	—	—	960	—
176.	McKay Dome	Greybull	Stillwater	1960	3,700	12	1.00	56	10	20	2	—	160	5.5
177.	Mason Lake, North	Arnsden	Musselshell	1975	5,900	—	—	—	—	—	—	—	40	—
178.	Lobo	Interlake, Red River	Roosevelt	1986	11,410	—	—	—	—	—	—	—	640	—
179.	McCabe	Ratcliffe	Roosevelt	1973	8,700	37	1.50	20	13	40	6	—	480	3.8
180.	McCabe, West	Red River	Roosevelt	1984	12,260	—	—	—	—	—	—	—	320	—
181.	McCoy Creek	Red River	Sheridan	1985	10,370	—	—	—	—	—	—	—	160	—
182.	Medicine Lake	Siluro—Ord	Sheridan	1984	11,319	44	1.55	38	9	35	6	—	2,880	32.0
183.	Medicine Lake	Mission Canyon	Sheridan	1979	8,500	—	—	—	—	—	—	—	320	—
184.	Melstone	Tyler	Musselshell	1948	4,400	34	1.09	25	15	30	26	—	800	14.9
185.	Mineral Bench	Charles	Roosevelt	1965	9,269	36	—	20	—	96	—	—	160	—
186.	Missouri Breaks	Red River	Roosevelt	1982	12,000	45	1.74	15	15	30	16	—	320	2.2
187.	Mondak West	Duperow	Richland	1979	10,600	—	—	—	—	—	—	—	480	—
188.	Mondak West	Madison	Richland	1976	9,200	30	1.30	100	4	60	6	—	10,880	103.8
189.	Mondak West	Siluro—Ord	Richland	1976	12,200	48	1.64	45	10	43	13	—	2,880	34.9
190.	Monarch Non Unit	Siluro—Ord	Fallon	1958	8,400	—	—	—	—	—	—	—	1,920	—
191.	Monarch Unit	Siluro—Ord	Fallon	1958	8,400	32	1.00	31	7	35	2	4	2,720	29.7
192.	Musselshell	Tyler	Rosebud	1981	4,248	31	1.10	20	13	10	1	—	160	2.6
193.	Mustang	Red River	Richland	1979	12,500	47	1.41	17	12	—	6	—	960	10.7
194.	Midfork	Charles, Nisku	Valley	1985	7,174	—	—	—	—	—	—	—	480	—
195.	Neisser Creek	Red River	Sheridan	1982	10,900	46	2.00	15	17	21	18	—	320	2.5
196.	Ninemile	Nisku	Toole	1985	3,450	—	—	—	—	—	—	—	120	—
197.	Nohly	Red River	Richland	1972	12,900	46	1.43	27	10	40	23	—	960	8.4
198.	Nohly	Nisku	Richland	1983	10,700	38	1.30	15	11	39	92	—	800	4.8
199.	Nohly Area	Ratcliffe	Richland	1984	9,444	32	1.23	17	10	57	8	—	640	2.9
200.	North Fork	Madison	Richland	1977	9,500	35	1.37	18	3	70	47	—	960	8
201.	North Fork	Red River	Richland	1976	12,700	46	1.50	12	14	57	14	—	320	1.1
202.	Olje	Red River	Sheridan	1985	11,429	38	1.20	15	15	35	5	—	320	3.0
203.	Ollie	Red River	Fallon	1980	10,200	36	—	56	—	—	—	—	160	—
204.	Otis, So. Otis Creek	Red River	Richland	1970	12,700	48	1.76	23	12	35	13	—	1,280	10.1
205.	Outlook	Duperow	Sheridan	1964	8,200	39	1.50	15	10	25	45	—	640	3.7
206.	Outlook	Interlake	Sheridan	1956	9,000	38	1.12	20	8	30	80	—	960	7.4
207.	Outlook	Winnipegosis	Sheridan	1971	9,000	39	1.12	18	8	30	18	—	800	5.5
208.	Outlook, West	Winnipegosis	Sheridan	1958	9,100	39	1.12	16	8	30	26	—	480	2.9
209.	Oxbow	Red River	Roosevelt	1978	12,600	47	1.50	18	12	45	26	—	320	1.9
210.	Palomino	Nisku	Roosevelt	1980	7,500	48	1.15	39	16	20	10	—	800	26.9
211.	Pelican	Red River	Sheidan	1979	11,400	47	1.30	19	6	26	15	—	320	1.6
212.	Pennel	Siluro—Ord	Fallon	1955	7,000	31	1.10	38	3	30	44	9	28,800	162.0
213.	Pete Creek	Sunburst	Toole	1977	2,700	—	—	—	—	—	—	—	40	—
214.	Pine	Red River	Fallon, Wibaux	1952	8,400	34	1.17	32	12	30	25	23	16,480	293.7
215.	Pondera	Madison, Sun River	Pondera	1927	2,100	34	1.20	15	16	31	17	—	15,440	165.3
216.	Pondera Coulee	Madison, Sun River	Pondera	1978	2,500	30	1.20	10	15	50	6	—	320	1.5

SUMMARY OF PRODUCING OIL FIELDS

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES
											PRIMARY	SECONDARY	
217.	Poplar, East	Madison	Roosevelt	1952	5,500	40	1.10	25	11	30	20	—	18,070
218.	Poplar, East	Heath	Roosevelt	1969	4,900	38	1.10	8	11	50	23	—	480
219.	Poplar, Northwest	Madison	Roosevelt	1952	6,300	40	1.10	16	10	45	12	—	5,120
220.	Prichard Creek Unit	Sunburst	Toole	1970	2,700	—	—	—	—	—	—	—	200
221.	Pronghorn	Red River	Sheridan	1983	10,580	40	1.30	17	13	54	3	—	1,280
222.	Putnam	Interlake	Richland	1969	11,900	41	1.75	16	9	30	12	—	640
223.	Putnam	Madison	Richland	1978	9,500	34	1.42	92	6	35	4	—	800
224.	Putnam	Red River	Richland	1969	11,900	41	1.75	16	9	30	25	—	4,160
225.	Rabbit Hills	Sawtooth	Blaine	1972	4,000	21	1.15	12	18	16	16	—	800
226.	Rabbit Hills, SW	Sawtooth	Blaine	1972	5,540	21	—	16	—	—	—	—	320
227.	Ragged Point	Tyler	Musselshell	1956	3,600	32	1.11	13	14	32	22	10	1,440
228.	Rainbow	Red River	Richland	1982	12,500	46	2.20	28	14	45	7	—	320
229.	Rattler Butte	Tyler	Rosebud	1975	5,300	35	1.10	25	12	60	45	—	240
230.	Rattlesnake Butte	Cat Creek, Amsden	Petroleum	1984	2,732	28	1.10	26	21	70	16	—	240
231.	Raymond	Duperow	Sheridan	1979	8,360	46	—	—	—	—	—	—	160
232.	Raymond	Mississippian	Sheridan	1972	6,800	32	1.09	10	10	—	11	—	1,760
233.	Raymond	Red River	Sheridan	1972	10,000	39	1.42	33	12	10	7	—	960
234.	Raymond	Winnipegosis	Sheridan	1972	9,300	42	1.17	40	5	27	25	—	960
235.	Raymond	Nisku	Sheridan	1972	7,900	50	1.40	22	9	—	12	—	640
236.	Reagan	Madison	Glacier	1947	3,700	38	1.10	11	12	30	45	14	2,600
237.	Red Bank	Madison	Roosevelt	1980	13,000	31	2.00	16	14	11	3	—	5,120
238.	Red Bank	Red River	Roosevelt	1980	13,000	45	2.00	20	18	8	3	—	960
239.	Red Bank, South	Red River	Roosevelt	1981	13,000	47	—	20	17	29	—	—	320
240.	Red Creek Unit	Cut Bank, Madison	Glacier	1958	2,600	31	1.08	20	19	30	11	2	1,410
241.	Red Water, East	Red River	Richland	1983	12,025	47	1.40	20	11	40	8	—	320
242.	Redstone	Winnipegosis	Sheridan	1958	9,400	42	1.10	34	8	30	11	—	320
243.	Refuge	Red River	Sheridan	1979	11,300	44	1.69	13	5	30	36	—	320
244.	Repeat	Red River	Carter	1956	8,600	23	1.02	25	10	30	27	—	160
245.	Reserve	Red River	Sheridan	1966	11,100	39	1.30	18	6	30	24	—	1,600
246.	Reserve	Winnipegosis	Sheridan	1967	10,193	—	—	—	—	—	—	—	160
247.	Richey	Charles	McCone	1951	7,000	39	1.20	25	8	30	15	—	1,440
248.	Ridgelawn	Madison	Richland	1977	8,900	35	1.18	54	3	50	38	—	4,480
249.	Ridgelawn	Red River	Richland	1980	12,500	49	1.90	15	12	35	43	—	1,600
250.	RipRap Coulee	Ratcliffe	Roosevelt	1975	8,800	34	1.30	14	14	45	15	—	800
251.	Riverbend	Red River	Richland	1981	12,000	44	1.42	12	12	30	23	—	320
252.	Rocky Point	Red River	Roosevelt	1978	11,800	49	1.80	19	14	47	11	—	640
253.	Roscoe Dome	Lakota	Carbon	1980	3,100	11	1.50	28	14	31	2	—	80
254.	Rosebud	Tyler	Musselshell	1974	5,000	34	1.24	32	14	48	17	—	200
255.	Royals	Dawson Bay	Dawson	1980	11,700	43	1.93	46	5	32	16	—	320
256.	Salt Lake	Nisku, Ratcliffe	Sheridan	1970	7,900	43	1.50	23	11	35	8	—	640
257.	Sand Creek	Red River	Dawson	1959	9,000	39	—	25	10	—	—	—	1,040
258.	Saturn	Ratcliffe	Daniels	1985	6,470	—	—	—	—	—	—	—	160
259.	Second Creek	Red River	Richland	1972	12,700	46	1.50	30	7	40	13	—	1,600
260.	Shepherd	Tyler	Musselshell	1974	5,000	32	—	—	—	2	—	—	120
261.	Shotgun Creek	Ratcliffe	Roosevelt	1984	9,234	—	—	20	—	—	—	—	480
262.	Rush Mountain	Red River	Sheridan	1968	12,000	39	1.62	14	10	33	38	—	320
263.	Sidney	Madison	Richland	1976	9,000	34	1.30	60	4	50	6	—	7,040
264.	Sidney	Red River	Richland	1981	12,500	41	1.70	30	11	45	7	—	640
265.	Sidney, East	Madison	Richland	1980	9,300	37	1.40	274	5	75	2	—	1,440
266.	Sioux Pass	Madison	Richland	1982	9,182	36	—	—	—	—	—	—	320
267.	Sioux Pass	Siluro—Ord	Richland	1973	12,700	47	1.70	40	9	35	13	—	2,560
268.	Sioux Pass, East	Red River	Richland	1975	12,600	47	1.80	10	16	30	3	—	640
269.	Sioux Pass, Middle	Red River	Richland	1976	12,600	45	1.40	17	16	25	7	—	1,920
270.	Sioux Pass, North	Madison	Richland	1974	12,000	45	1.60	44	12	40	2	—	1,600
271.	Sioux Pass, North	Red River	Richland	1974	12,000	45	1.60	44	12	40	4	—	4,800
272.	Sioux Pass, South	Red River	Richland	1982	12,700	46	—	30	—	—	—	—	640
273.	Soap Creek	Tensleep, Madison	Big Horn	1952	1,900	20	1.05	20	15	35	15	—	1,240
274.	Soap Creek, East	Tensleep	Big Horn	1977	3,400	17	1.02	15	15	35	20	—	120
275.	South Fork	Red River	Richland	1976	12,400	46	1.00	41	11	—	1	—	960
276.	Spring Lake	Bakken	Richland	1982	10,800	42	1.50	17	8	20	11	—	320
277.	Spring Lake	Red River	Richland	1963	11,700	51	2.00	9	12	30	43	—	640
278.	Spring Lake, South	Red River	Richland	1981	11,900	50	1.62	38	10	40	4	—	320
279.	Spring Lake, West	Bakken	Richland	1980	11,660	—	—	—	—	—	—	—	320
280.	Stampede	Red River	Richland	1980	11,800	45	1.31	40	8	40	4	—	640
281.	Stensvad	Tyler	Musselshell	1958	5,500	33	1.17	25	14	20	40	14	960
282.	Studhorse	Stensvad	Garfield	1984	4,805	32	1.05	15	16	50	5	—	640
283.	Sumatra	Tyler	Rosebud	1949	4,500	32	1.16	30	19	35	27	7	5,520
284.	Sunny Hill, West	Red River	Sheridan	1983	12,330	50	1.55	14	13	28	6	—	320
285.	Target	Madison	Roosevelt	1981	10,500	32	—	50	11	55	—	—	1,760
286.	Three Buttes	Red River, Gunton	Richland	1978	12,400	43	—	12	—	—	—	—	960
287.	Tule Creek	Nisku	Roosevelt	1960	7,500	46	1.41	25	15	30	45	—	1,280
288.	Tule Creek, East	Nisku	Roosevelt	1964	7,500	43	1.91	30	18	30	44	—	320

SUMMARY OF PRODUCING OIL FIELDS

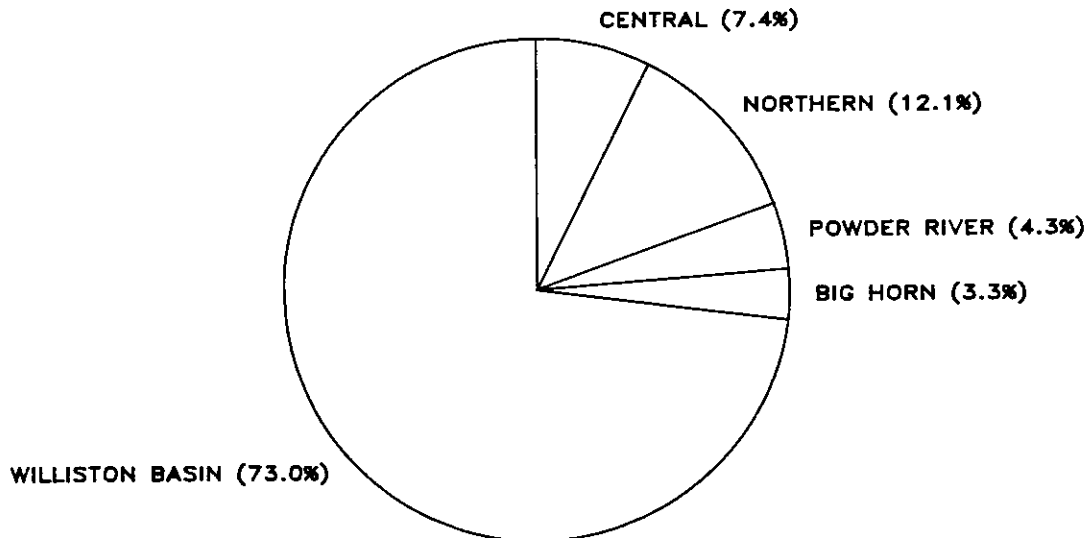
LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	(M BBL)
											PRIMARY	SECONDARY		
289.	Tule Creek, South	Dakota	Roosevelt	1964	7,600	43	1.40	8	12	30	45	—	480	1,787
290.	Two Waters	Bakken	Richland	1982	9,950	—	—	42	—	—	—	—	320	—
291.	Two Waters	Red River	Richland	1980	11,500	43	1.40	16	8	30	10	—	320	1,589
292.	Utopia	Swift	Liberty	1977	2,300	33	1.15	17	16	40	7	—	1,040	11,450
293.	Vaux	Interlake, S. C. & V.	Richland	1981	12,100	45	—	—	—	25	—	—	640	—
294.	Vaux	Madison	Richland	1977	8,800	34	1.20	40	4	43	16	—	3,200	18,867
295.	Vaux	Red River	Richland	1976	12,400	48	1.60	24	14	45	8	—	2,240	20,071
296.	Volt	Nisku	Roosevelt	1964	7,300	47	1.40	14	20	30	49	—	800	8,689
297.	Wakea	Red River	Sheridan	1983	11,133	42	1.57	6	14	31	30	—	1,280	3,666
298.	Wakea	Winnipegosis	Sheridan	1985	10,179	44	1.42	12	14	30	169	—	320	2,056
299.	Weldon	Kibbey	McCone	1964	5,900	39	1.01	14	16	35	41	—	1,560	17,447
300.	West Butte	Sunburst	Toole	1968	2,300	40	1.10	10	24	23	15	—	160	2,085
301.	Whitlash	Swift, Sunburst	Liberty	1927	2,600	38	1.13	15	16	20	13	—	3,120	41,127
302.	Whitlash, West	Sunburst	Liberty	1980	2,906	—	—	—	—	—	—	—	200	—
303.	Willow Creek, North	Tyler	Musselshell	1970	4,000	32	1.20	12	13	54	46	—	160	742
304.	Willow Ridge	Burwash	Toole	1975	1,400	40	1.20	8	16	40	5	—	200	993
305.	Wills Creek, South	Red River	Fallon	1964	8,700	33	1.20	12	18	35	35	—	480	4,357
306.	Wolf Springs	Amsden	Yellowstone	1955	6,200	30	1.07	11	6	23	63	—	2,080	7,664
307.	Wolf Springs, South	Amsden	Yellowstone	1984	6,100	31	—	12	—	—	—	—	960	—
308.	Woodrow	Red River, Charles	Dawson	1952	9,600	42	1.30	25	14	35	16	—	560	7,603
309.	Wrangler	Red River	Sheridan	1979	11,200	30	1.00	6	10	—	36	—	640	2,979
310.	Wrangler, North	Red River	Sheridan	1979	10,000	41	1.40	18	16	45	4	—	320	2,809
311.	Wright Creek	Muddy	Powder River	1969	4,800	35	1.10	5	26	48	16	—	400	1,907
312.	Yates	Duperow	Wibaux	1981	10,100	—	—	—	—	—	—	—	160	—
313.	Yates	Red River	Wibaux	1982	11,245	33	1.30	21	10	45	1	—	640	4,411

Miscellaneous Small Fields

STATE TOTALS

1987 PRODUCTION BY REGION

(25,104,049 Barrels)



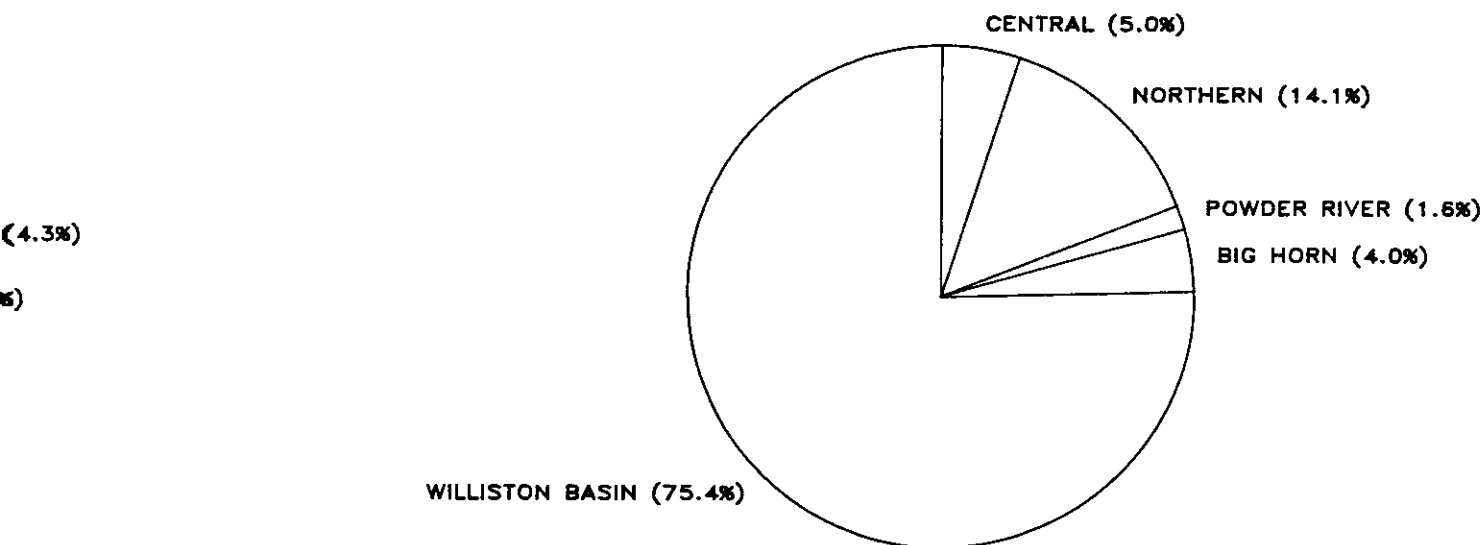
WILLISTON

RY OF PRODUCING OIL FIELDS—1987

POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1987 PRODUCTION		CUMULATIVE PRODUCTION 1-88 (M BBLs)	RESERVES (M BBLs)	LINE NO.
		PRIMARY	SECONDARY		(M BBLs)	BBLs/ACRE	PRIMARY (M BBLs)	SECONDARY (M BBLs)	TOTAL (M BBLs)	BBLs/ACRE	BBLs/ACRE FT.	BBLs	BOPD			
12	30	45	—	480	1,787	3,722	810	—	810	1,688	211	24,432	67	773	37	289.
—	—	—	—	320	—	—	—	—	—	—	—	9,077	25	28	35	290.
8	30	10	—	320	1,589	4,965	160	—	160	500	31	7,215	20	114	46	291.
16	40	7	—	1,040	11,450	11,009	850	—	850	817	48	40,839	112	513	337	292.
—	25	—	—	640	—	—	—	—	—	—	—	38,043	104	408	96	293.
4	43	16	—	3,200	18,867	5,895	3,010	—	3,010	941	24	275,909	756	1,093	1,917	294.
14	45	8	—	2,240	20,071	8,960	1,580	—	1,580	705	29	54,738	150	1,462	118	295.
20	30	49	—	800	8,689	10,861	4,250	—	4,250	5,313	380	76,037	208	2,872	1,378	296.
14	31	30	—	1,280	3,666	2,864	1,100	—	1,100	859	143	122,840	337	790	310	297.
14	30	169	—	320	2,056	6,425	3,470	—	3,470	10,844	904	195,618	536	692	2,778	298.
16	35	41	—	1,560	17,447	11,183	7,120	—	7,120	4,564	326	—	—	7,049	71	299.
24	23	15	—	160	2,085	13,031	310	—	310	1,938	194	5,506	15	285	25	300.
16	20	13	—	3,120	41,127	13,181	5,520	—	5,520	1,769	118	63,953	175	5,154	366	301.
—	—	—	—	200	—	—	—	—	—	—	—	5,747	16	108	11	302.
13	54	46	—	160	742	4,637	340	—	340	2,125	177	11,819	32	323	17	303.
16	40	5	—	200	993	4,965	50	—	50	250	31	2,509	7	41	9	304.
18	35	35	—	480	4,357	9,077	1,540	—	1,540	3,208	267	22,031	60	1,052	488	305.
6	23	63	—	2,080	7,664	3,684	4,800	—	4,800	2,308	210	19,591	54	4,656	144	306.
—	—	—	—	960	—	—	—	—	—	—	—	96,169	263	713	83	307.
14	35	16	—	560	7,603	13,576	1,230	—	1,230	2,196	88	13,714	38	1,132	98	308.
10	—	36	—	640	2,979	4,654	1,070	—	1,070	1,672	279	43,937	120	404	666	309.
16	45	4	—	320	2,809	8,778	120	—	120	375	21	5,417	15	100	20	310.
26	48	16	—	400	1,907	4,767	310	—	310	775	155	7,961	22	275	35	311.
—	—	—	—	160	—	—	—	—	—	—	—	—	—	26	16	312.
10	45	1	—	640	4,411	6,892	40	—	40	63	3	9,020	25	28	12	313.
												363,000	994	105		
												25,104,049	68,778	188,557		

1987 RESERVES BY REGION

(188,557,000 Barrels)

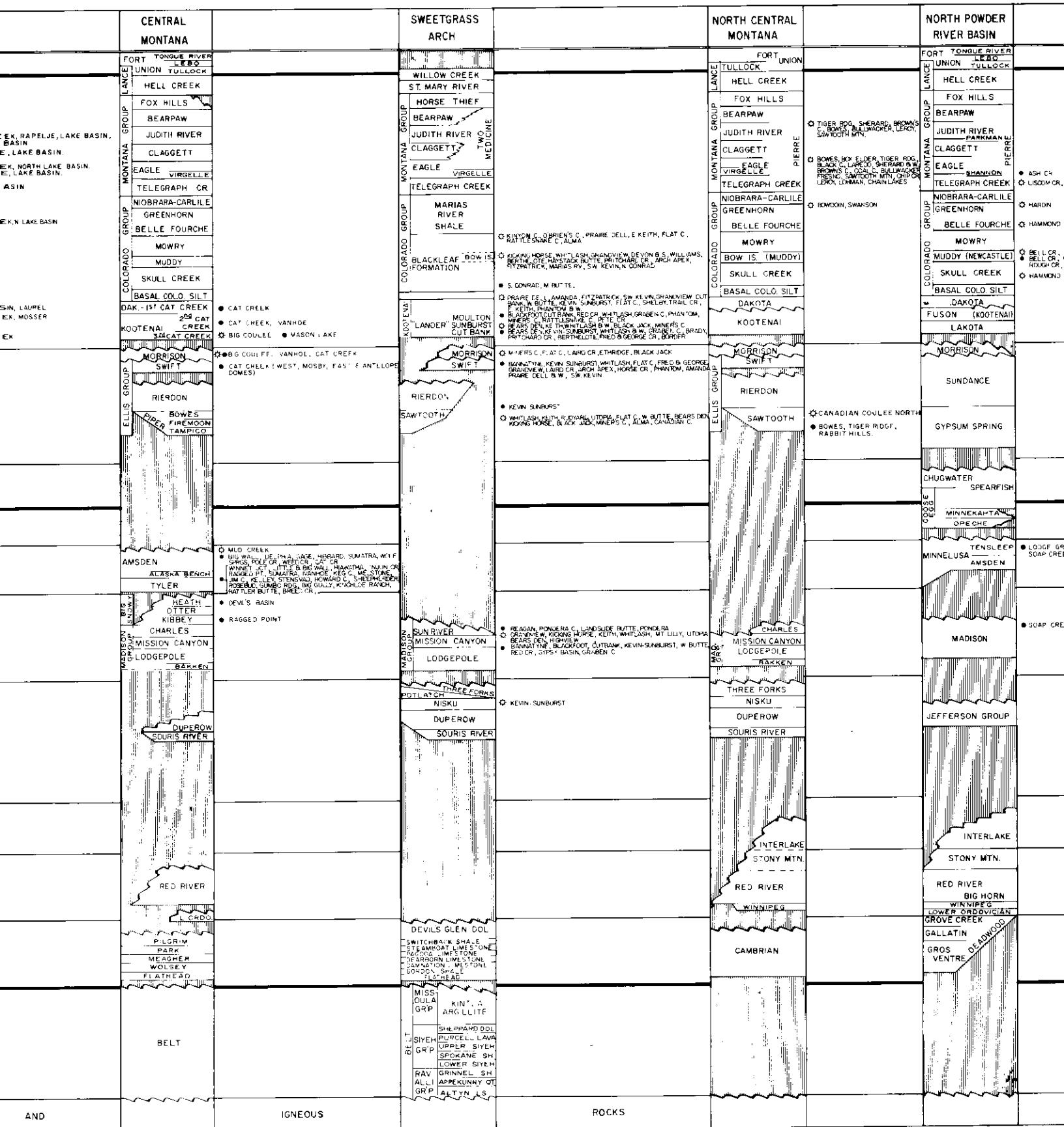


GENERALIZED SHOW

ERA	PERIOD	SOUTHWESTERN MONTANA	CRAZY MOUNTAIN BASIN	BIG HORN BASIN		SOUTH CENTRAL MONTANA		CENTRAL MONTANA	
CENOZOIC	TERTIARY	BEAVERHEAD	TONQUE RIVER LEBO	FORT UNION				FORT UNION	
			TULLOCK	LANCE				LANCE	
MESOZOIC	CRETACEOUS	UPPER	MONTANA GROUP	HELL CR.	MEETEETSE		HELL CREEK		
			LIVINGSTON	LENNEP		LENNEP		LENNEP	
				BEARPAW	MESA VERDE	BEARPAW		BEARPAW	* DRY CREEK, RAPELJE, LAKE BASIN, N. LAKE BASIN.
				JUDITH RIVER		JUDITH RIVER		JUDITH RIVER	* RAPELJE, LAKE BASIN.
				CLAGGETT		CLAGGETT		CLAGGETT	* DRY CREEK, NORTH LAKE BASIN, RAPELJE, LAKE BASIN.
		LOWER	MONTANA GROUP	EAGLE	CODY SHALE		EAGLE		* DRY CREEK, NORTH LAKE BASIN, RAPELJE, LAKE BASIN.
			VIRGELLE	FRONTIER	FRONTIER		VIRGELLE		* LAKE BASIN
			TELEGRAPH CR.	FRONTIER		TELEGRAPH CR.		TELEGRAPH CR.	* LAKE BASIN
			NIORRARA-CARLILE	FRONTIER		NIORRARA-CARLILE		NIORRARA-CARLILE	* DRY CREEK, N. LAKE BASIN
			GREENHORN	FRONTIER		GREENHORN		GREENHORN	
JURASSIC	UPPER	MORRISON	MORRISON	MORRISON		MORRISON		MORRISON	
		SWIFT	SWIFT	UPPER SUNDANCE		SWIFT		UPPER SUNDANCE	
		RIERDON	RIERDON	LOWER SUNDANCE		RIERDON		LOWER SUNDANCE	
		SAWTOOTH	PIPER	GYPSUM SPRING		PIPER		GYPSUM SPRING	
	MIDDLE	THAYNES	CHUGWATER	CHUGWATER		CHUGWATER		CHUGWATER	
		WOODSIDE	DINWOODY	DINWOODY		DINWOODY		DINWOODY	
		DINWOODY	PHOSPHORIA	PHOSPHORIA		PHOSPHORIA		PHOSPHORIA	
		PHOSPHORIA	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
TRIASSIC	LOWER ?	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	PERMIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	PENNSYLVANIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	MISSISSIPPIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	DEVONIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	SILURIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	ORDOVICIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PALEOZOIC	CAMBRIAN	QUADRANT	TENSLEEP	TENSLEEP		TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN		AMSDEN		AMSDEN	
PROTEROZOIC	PRE-CAMBRIAN	BELT	BELT	BELT		BELT		BELT	
ARCHEOZOIC									

GENERALIZED STRATIGRAPHIC CORRELATION CHART

SHOWING PRODUCTIVE FORMATIONS IN MONTANA OIL AND GAS FIELDS *
● OIL ✱ GAS



AND

IGNEOUS

ROCKS

RELATION CHART

S FIELDS *

NORTH CENTRAL MONTANA		NORTH POWDER RIVER BASIN		WILLISTON BASIN		PERIOD	ERA
<p>FORT UNION</p> <p>TULLOCK</p> <p>HELL CREEK</p> <p>FOX HILLS</p> <p>BEARPAW</p> <p>JUDITH RIVER</p> <p>CLAGGETT</p> <p>EAGLE</p> <p>VIRGELLE</p> <p>TELEGRAPH CREEK</p> <p>NIORRARA-CARLILE</p> <p>GREENHORN</p> <p>BELLE FOURCHE</p> <p>MOWRY</p> <p>BOW IS (MUDDY)</p> <p>SKULL CREEK</p> <p>BASAL COLO. SILT</p> <p>DAKOTA</p> <p>KOOTENAI</p> <p>MORRISON</p> <p>SWIFT</p> <p>RIERDON</p> <p>SAWTOOTH</p> <p>CHARLES</p> <p>MISSION CANYON</p> <p>LODGEPOLE</p> <p>BAKKEN</p> <p>THREE FORKS</p> <p>NISKU</p> <p>DUPEROW</p> <p>SOURIS RIVER</p> <p>INTERLAKE</p> <p>STONY MTN.</p> <p>RED RIVER</p> <p>WINNIPEG</p> <p>CAMBRIAN</p>		<p>FORT TONGUE RIVER</p> <p>LEBO</p> <p>TULLOCK</p> <p>HELL CREEK</p> <p>FOX HILLS</p> <p>BEARPAW</p> <p>JUDITH RIVER</p> <p>CLAGGETT</p> <p>EAGLE</p> <p>TELEGRAPH CREEK</p> <p>NIORRARA-CARLILE</p> <p>GREENHORN</p> <p>BELLE FOURCHE</p> <p>MOWRY</p> <p>MUDDY (NEWCASTLE)</p> <p>SKULL CREEK</p> <p>BASAL COLO. SILT</p> <p>DAKOTA</p> <p>FUSON (KOOTENAI)</p> <p>LAKOTA</p> <p>MORRISON</p> <p>SWIFT</p> <p>SUNDANCE</p> <p>GYPHUM SPRING</p> <p>CHUGWATER</p> <p>SPEARFISH</p> <p>MINNEKAHTA</p> <p>OPECHE</p> <p>TENSLEEP</p> <p>AMSDEN</p> <p>MINNELUSA</p> <p>MADISON</p> <p>JEFFERSON GROUP</p> <p>INTERLAKE</p> <p>STONY MTN.</p> <p>RED RIVER</p> <p>BIG HORN</p> <p>WINNIPEG</p> <p>LOWER ORDOVICIAN</p> <p>GROVE CREEK</p> <p>GALLATIN</p> <p>GROS VENTRE</p> <p>DEADWOOD</p>		<p>FORT TONGUE RIVER</p> <p>UNION LUDLOW</p> <p>HELL CREEK</p> <p>FOX HILLS</p> <p>BEARPAW</p> <p>JUDITH RIVER</p> <p>CLAGGETT</p> <p>EAGLE</p> <p>TELEGRAPH CREEK</p> <p>NIORRARA-CARLILE</p> <p>GREENHORN</p> <p>BELLE FOURCHE</p> <p>MOWRY</p> <p>MUDDY (NEWCASTLE)</p> <p>SKULL CREEK</p> <p>BASAL COLO. SILT</p> <p>DAKOTA</p> <p>FUSON (KOOTENAI)</p> <p>LAKOTA</p> <p>MORRISON</p> <p>SWIFT</p> <p>RIERDON</p> <p>BOWES</p> <p>FIREMOON</p> <p>TAMPIGO</p> <p>KILDE</p> <p>NESSON</p> <p>SAUDE</p> <p>SPEARFISH</p> <p>WINE SALT</p> <p>MINNEKAHTA</p> <p>OPECHE</p> <p>AMSDEN</p> <p>TYLER</p> <p>HEATH</p> <p>OTTER</p> <p>KIBBEY</p> <p>CHARLES</p> <p>MISSION CANYON</p> <p>LODGEPOLE</p> <p>BAKKEN</p> <p>THREE FORKS</p> <p>BIRDBEAR (NISKU)</p> <p>DUPEROW</p> <p>SOURIS RIVER</p> <p>DAWSON BAY</p> <p>PRAIRIE EVAP</p> <p>WINNIPEGOSIS</p> <p>ASHERN</p> <p>INTERLAKE</p> <p>STONY MTN.</p> <p>RED RIVER</p> <p>WINNIPEG</p> <p>LOWER ORDOVICIAN</p> <p>DEADWOOD</p>		<p>UPPER</p> <p>CRETACEOUS</p> <p>LOWER</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>LOWER ?</p> <p>PERMIAN</p> <p>PENNSYLVANIAN</p> <p>MISSISSIPPIAN</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p> <p>UPPER</p> <p>MIDDLE</p> <p>LOWER</p>	<p>MESOZOIC</p> <p>JURASSIC</p> <p>TRIASSIC</p> <p>PERMIAN</p> <p>PENNSYLVANIAN</p> <p>MISSISSIPPIAN</p> <p>DEVONIAN</p> <p>SILURIAN</p> <p>ORDOVICIAN</p> <p>CAMBRIAN</p> <p>PRE-CAMBRIAN</p> <p>PROTEROZOIC</p> <p>ARCHEOZOIC</p>
<p>● TIGER RDG, SHERARD, BROWN'S, BOWES, BULLWACKER, LEROY, SAWTOOTH MTN.</p> <p>● BOWES, BOX ELDER, TIGER RDG, BLACK C, LAREDO, SHERARD, BROWN'S, GOUL, CHAIN WALKER, FRENCH, SAWTOOTH MTN, CHAIN WALKER, LEROY, DIMAN, CHAIN LAKES</p> <p>● BOWDON, SWANSON</p> <p>● CANADIAN COULEE NORTH</p> <p>● BOWES, TIGER RIDGE, RABBIT HILLS.</p>		<p>● ASH CR.</p> <p>● LISCOM CR., PIMMINGER</p> <p>● HARDIN</p> <p>● HAMMOND</p> <p>● HELL CR., HAMMOND, HELL CR., WRIGHT CR., TOLSON CR., LEARY</p> <p>● HAMMOND</p> <p>● SOAP CREEK.</p>		<p>● CEDAR CREEK, PLEVNA</p> <p>● CEDAR CREEK</p> <p>● WELDON, E COW CR., FIAT L, SHOTGUN CR., SMOKE CR., KATY L, DWYER, POPLAR, COW CR., RICHEY, PRAIRIE ELK, VOLT, MINERAL BCH, GAS CITY, GOOSE LAKE, MEDICINE L., CLEAR L., RIPRAP C., RIDGELAWN, DIVIDE</p> <p>● RED BANK, LUSTRE, AUTUMN</p> <p>● SIDNEY, BRORSON, CABIN CR., MONARCH, PENNEL, POP. LAR, RED BANK, OUTLOOK, S, FIAT L., HARDCRABBLE CR., SHOTGUN CR., SIOUX PASS, MONDOK W.</p> <p>● PINE, PENNEL, LOOKOUT BUTTE, SALT L.</p> <p>● TILE CR., S. B. E., BENDON, N. B. E., LONE TREE, SPRING, YOLT, RED FOX, SALT L., GHELSEA CR., RICHMOND, CHARLE CR., S. CLEAR L.</p> <p>● OUTLOOK, MINERAL BCH, WOODROW, BOULDER</p> <p>● SW RICHEY, MONDOK W.</p> <p>● RED STONE, OUTLOOK & W., FAIRVIEW, RESERVE, N. SIOUX PASS, RUSH MTN, RAYMOND & N.E., MONDOK W., MEDICINE L., N. BARKVILLE</p> <p>● BIG MUDDY CR., SIOUX PASS & N., DEER CR., MONARCH, PENNEL, PINE, OUTLOOK, SAND CR., SW RICHEY, LOOKOUT BUTTE, VIDA, WILLS CR., WOODROW, RESERVE, CABIN CR., PUTNAM, MONDOK W., MEDICINE L.</p> <p>● LOOKOUT BUTTE, GLENVIEW, PENNEL, WOODROW, MONDOK W.</p> <p>● BURNS CR., MOHLY, RAYMOND & N.E., SECOND CR., CUPTON, DEER CR., CANNON, LITTLE BEAVER & E., MONARCH, OUTLOOK, PENNEL, PINE, REPEAY, SAND CR., WILLS CR., FERTILE PRAIRIE, BOORS, SOUTH WOODROW, RESERVE, GAS CITY, FAIRVIEW, PUTNAM, RICH BAY, SPRING, SPRING, BARKVILLE & N., OTIS CR., OULBERTSON, FROD, MAY CR., GRARE, CANAL, FT. GILBERT, LONE TREE, SIOUXPASS, MIDDLE & N., LONE BUTTE, PUTNAM, BIG MUDDY CR., MONDOK W., GOOSE, MEDICINE L., W. FOUR MILE, N. KATY L., CLEAR L. & S., CARLYLE, OLLIE, COMERTOWN, RED BANK, KRUS CR., MOBY</p>			

*SOME FIELDS SHOWN ARE DEPLETED OR NO LONGER PRODUCTIVE