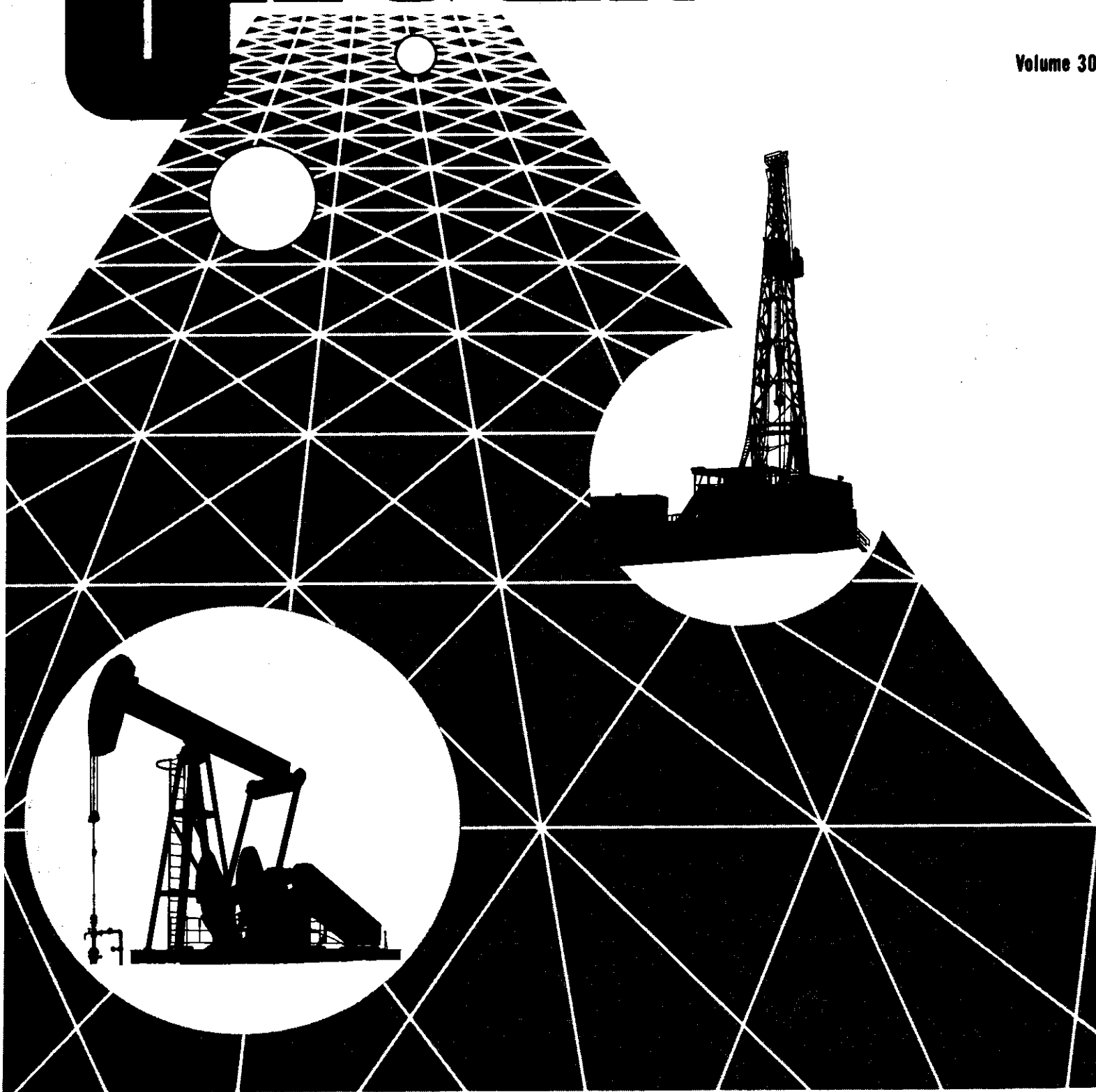


MONTANA

OIL & GAS

Annual
Review
1986

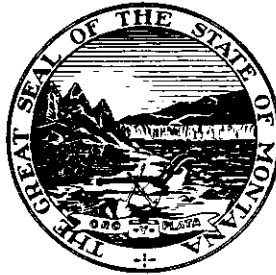
Volume 30



DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Ted Schwinden, Governor



ANNUAL REVIEW FOR THE YEAR 1986
Relating to
OIL AND GAS
Volume 30

BOARD OF OIL AND GAS CONSERVATION

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

JAMES C. NELSON, Vice-Chairman
P.O. Box 428
Cut Bank, Montana 59427

JOHN M. SHEEHY
P.O. Box 296
Big Sandy, Montana 59520

ROBERT I. PENNER
128 Crescent Drive,
Wolf Point, Montana 59201

DONALD D. CECIL
P.O. Box 1077
Billings, Montana 59103

GEORGE R. CROTTY
18 Sixth Street N., Suite 200
Great Falls, Montana 59401

ARNOLD G. HANSEN
820 Ninth Avenue, S.W.
Sidney, Montana 59270

ACKNOWLEDGEMENTS

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.

TABLE OF CONTENTS

Administrator's Report	1
1986 Summary of Year Activities	2
Five Year Summary	3
Summary of Drilling by Counties	4
Crude Oil Production Graph	5
Natural Gas Production	6
Associated Gas Production	9
Refiner's Report	13
Crude Oil Production and Valuation	14
Miscellaneous Inactive Fields	20
1986 Well Completions	21
Summary of Secondary Recovery Projects	29
Oil and Gas Field Summary	31
Map of Pipelines and Refineries . . . . .	.In Back of Book
Summary of Producing Oil Fields . . . . .	.In Back of Book
Generalized Stratigraphic Correlation Chart . . . . .	.In Back of Book

Administrators for the Board of Oil and Gas Conservation of the State of Montana

CHARLES G. MAIO,
ADMINISTRATOR/PETR. GEOLOGIST
2535 ST. JOHN'S AVENUE
BILLINGS, MONTANA 59102

THOMAS P. RICHMOND,
PETROLEUM ENGINEER
2535 ST. JOHN'S AVENUE
BILLINGS, MONTANA 59102

FLOYD W. PODOLL,
FIELD SUPERVISOR
2535 ST. JOHN'S AVENUE
BILLINGS, MONTANA 59102

DEE RICKMAN,
EXECUTIVE SECRETARY
1520 EAST SIXTH AVENUE
HELENA, MONTANA 59620

DONALD A. GARRITY,
ATTORNEY
1313 ELEVENTH AVENUE
HELENA, MONTANA 59601

Administrative Office 1520 East Sixth Avenue, Helena, Montana 59620
Technical Office and Southern District Field Office 2535 St. John's Avenue, Billings, Montana 59102
Northern District Field Office 218 Main Street, Shelby, Montana 59474

Annual Review for the Year 1986 Volume 30 ACTIVITY REVIEW—MONTANA 1986

The drop in oil prices has affected industry activity in Montana as it has throughout the United States. This year drilling totaled 405 wells, including four service wells, the lowest number since 1964, when 391 wells were drilled. Development completions included 90 oil and 81 gas producers; eleven oil and 10 gas producing wells were completed as a result of wildcat drilling.

Total natural and associated gas withdrawals were down from 1985's 54.15 billion cubic feet to 1986's ten-year low of 48.25 billion cubic feet.

The depressed condition of the industry as a whole is also reflected in 1986 oil production, which at 27.2 million barrels, is down from 1985 production by 2.6 million barrels.

There still are good drilling prospects and areas that merit exploration in Montana's oil and gas producing provinces. A stable crude price that would economically support industry is needed to encourage the development of this potential.

There were 125 oil companies active in Montana during the year; 18 geophysical companies, 10 less than last year, had seismic crews operating in the state.

Well samples, including core chips, from more than 11,500 wells are presently on file in the Billings office. A catalogue was published this year listing all samples available as of July 1, 1986. Newer samples are filed on a current basis. Full cores from Montana wells are stored at the USGS Core Library in Arvada, Colorado.

A total of 70 orders were issued by the Board during the year. The Board received and processed 66 applications to qualify for the maximum lawful gas price allowed under the Natural Gas Policy Act of 1978.

**1986
SUMMARY OF YEAR ACTIVITIES**

OIL

	BBLs	BBLs OF OIL PER DAY
Oil Produced	27,164,630	74,424
Oil Imported From:		
Canada	22,777,955	
Wyoming	<u>13,795,173</u>	
Total	36,573,128	100,200
Oil Exported	21,000,000	57,534

GAS

	MCF	MCF/DAY
Gas Withdrawals:		
Natural	36,295,550	
Associated	<u>11,950,356</u>	
Total	48,245,906	132,181
Gas Imported From:		
Canada	7,626,465	
North Dakota	32,028,215	
Wyoming	<u>6,962,525</u>	
Total	46,617,205	127,718
Gas Exported To:		
Canada	89,553	
North Dakota	3,356,026	
South Dakota	4,972,953	
Wyoming	16,757,981	
Midwest	<u>9,367,543</u>	
Total	34,544,056	94,641

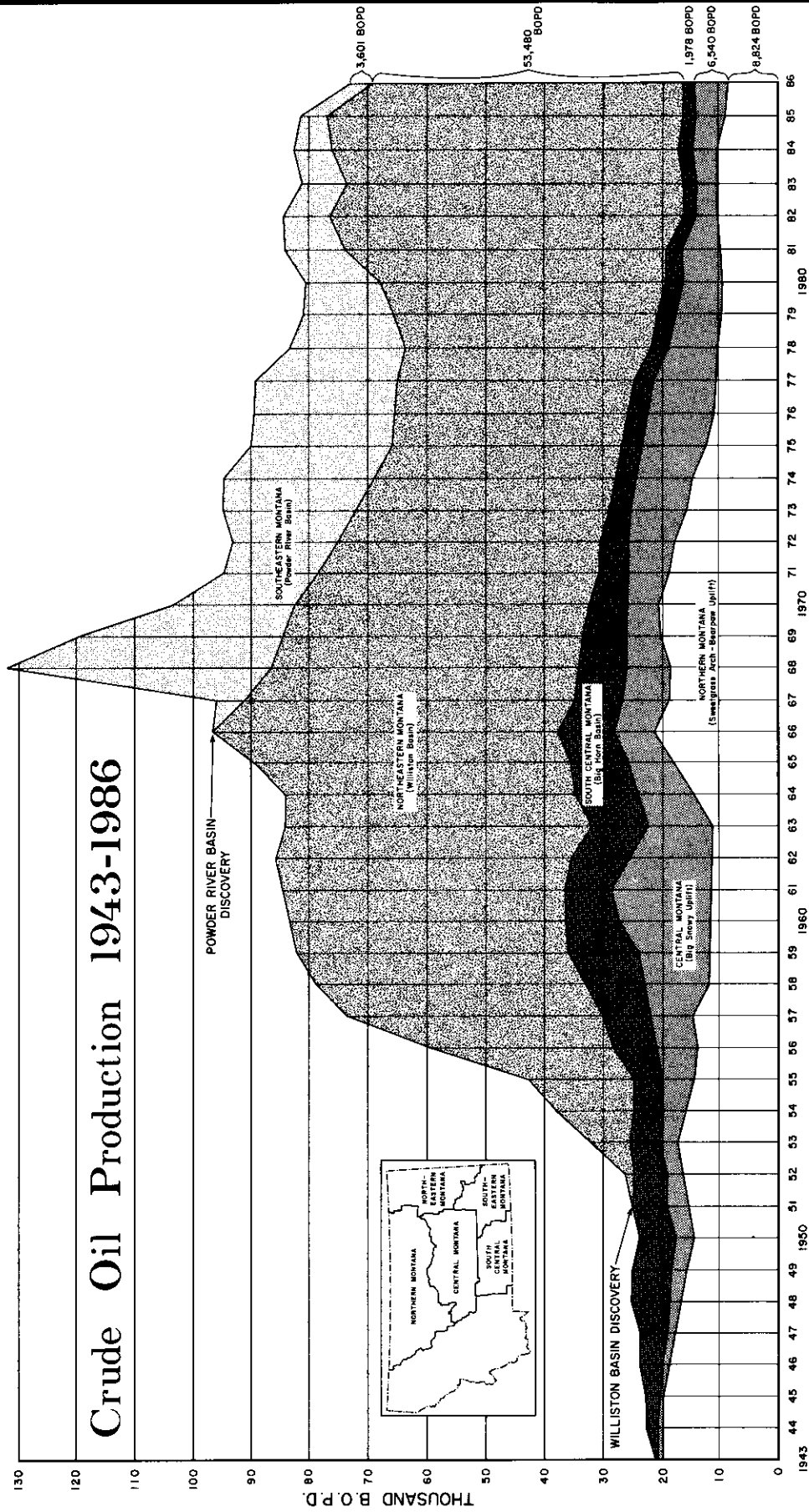
FIVE YEAR SUMMARY

	1982	1983	1984	1985	1986
PRODUCTION IN BARRELS					
Northern Montana	3,680,043	3,682,130	3,708,185	3,419,300	3,220,769
South Central	806,366	790,150	829,090	838,817	722,118
Central	1,496,895	1,467,855	1,709,653	1,868,780	2,387,266
Williston Basin	21,934,760	20,877,527	21,449,415	21,979,087	19,520,103
Powder River Basin	2,999,247	2,847,618	2,383,476	1,744,433	1,314,374
TOTAL	<u>30,917,311</u>	<u>29,665,280</u>	<u>30,079,819</u>	<u>29,850,417</u>	<u>27,164,630</u>
NUMBER OF PRODUCING WELLS					
Northern Montana	2,455	2,693	2,610	2,803	3,017
South Central	138	150	144	141	80
Central	249	287	294	417	453
Williston Basin	1,360	1,446	1,577	1,540	1,509
Powder River Basin	212	222	214	216	184
TOTAL	<u>4,414</u>	<u>4,798</u>	<u>4,839</u>	<u>5,117</u>	<u>5,243</u>
AVERAGE DAILY PRODUCTION/WELL					
Northern Montana	4.1	3.7	3.9	3.3	2.9
South Central	16.0	14.4	15.8	16.3	24.7
Central	16.5	14.0	15.9	12.3	14.4
Williston Basin	44.2	39.6	37.9	39.1	35.4
Powder River Basin	38.8	35.1	30.4	22.1	19.5
STATE AVERAGE	<u>19.2</u>	<u>16.9</u>	<u>17.0</u>	<u>16.0</u>	<u>14.2</u>
DEVELOPMENT WELLS DRILLED					
Oil Wells	263	160	327	227	90
Gas Wells	145	55	99	84	81
Dry Holes	120	88	87	90	69
Service Wells	19	10	20	18	4
TOTAL	<u>547</u>	<u>313</u>	<u>533</u>	<u>419</u>	<u>244</u>
EXPLORATORY WELLS DRILLED					
Oil Wells	64	25	33	16	11
Gas Wells	46	16	21	2	10
Dry Holes	248	156	189	192	130
Temporary Abandoned		23	25	11	10
TOTAL	<u>358</u>	<u>220</u>	<u>268</u>	<u>221</u>	<u>161</u>
TOTAL WELLS DRILLED	905	533	801	640	405
TOTAL FOOTAGE DRILLED	4,342,410	2,529,666	3,831,730	3,076,290	1,648,519
AVERAGE FOOTAGE DRILLED	4,798	4,746	4,783	4,806	4,070

SUMMARY OF DRILLING BY COUNTIES—1986

County	Development		Wildcat		Service	Temp. Aband.	Total Wells	Footage Drilled	Average Depth
	Oil	Gas	Oil	Gas					
Big Horn		6		1		7	14,274	2,039	
Blaine		21	1	2		38	70,650	1,859	
Carbon	1	4		8		13	55,224	4,248	
Carter				2		2	7,953	3,976	
Chouteau		2	1	2	1	14	35,501	2,535	
Daniels	1			3		3	22,586	7,528	
Dawson	6	3		1		10	42,215	10,553	
Fallon				3	3	4	63,100	6,310	
Fergus		1		1	1	4	4,680	1,170	
Garfield		6		5		2	9,103	4,551	
Glacier	22	7		6		35	120,510	3,443	
Hill				2		23	37,563	1,633	
Liberty				1		1	1,417	1,417	
Musselshell		3	1	5	2	11	40,398	3,672	
Petroleum	1			1		2	9,483	4,741	
Pondera	2	7		3		16	22,147	1,384	
Powder River	1	1		25		27	210,634	7,801	
Richland	5	2	1	3		11	133,359	12,123	
Roosevelt	5	4	1	6	1	17	145,387	8,552	
Rosebud	1	2	1	8		12	66,219	5,518	
Sheridan	8	1	2	7		19	185,416	9,758	
Stillwater	1	1		3		5	11,679	2,335	
Sweet Grass				1		1	5,250	5,250	
Teton	3	1		2		6	18,468	3,078	
Toole	27	33	2	16		96	186,675	1,944	
Valley	3	4	1	5		14	88,282	6,305	
Wibaux				1	1	1	9,152	9,152	
Yellowstone	3	1		7		11	31,194	2,835	
TOTALS	90	81	69	130	4	405	1,648,519	4,070	

Crude Oil Production 1943-1986



GAS PRODUCTION DATA—1986
NATURAL GAS

Field	County	Producing Formation	Produced MCF
Alma	Liberty	Bow Island	8,562
Amanda	Toole	Swift, Bow Island, Sunburst	297,706
Antelope Coulee	Toole	Blackleaf	466
Arch Apex	Toole	Bow Island, Sunburst, Swift	159,341
Badlands	Hill	Eagle	383,635
Battle Creek	Blaine	Eagle	2,447,316
Bears Den	Liberty	Madison, Bow Island, Swift	40,866
Bell Creek, Southeast	Powder River	Muddy	28,451
Big Coulee	Golden Valley, Stillwater	Lakota, Morrison, Cat Creek 3	335,077
Big Rock	Glacier	Blackleaf, Bow Island, Madison, Colorado	731,463
Bills Coulee	Teton	Sunburst, Moulton, Kootenai, Dakota	227,046
Black Butte	Hill	Eagle	166,330
Black Coulee	Blaine	Eagle	211,638
Blackfoot	Glacier	Dakota	130,653
Blackjack	Liberty	Second White Specks, Sunburst, Blackleaf Bow Island	71,894
Blackleaf Canyon	Teton	Sun River	742,793
Border	Toole	Sunburst	2,408
Bowdoin and Area	Phillips, Valley	Bowdoin, Phillips, Carlile-Greenhorn	3,134,647
Bowes	Blaine	Eagle	441,011
Bradley	Glacier	Dakota	4,159
Broadview	Golden Valley	Frontier	60,652
Browns Coulee, East	Hill	Eagle, Judith River	68,031
Buffalo Flats	Chouteau	Bow Island, Roberts	19,745
Bullwacker and Area	Blaine, Chouteau	Eagle, Judith River	866,800
Camp Creek	Chouteau	Eagle	12,414
Canadian Coulee and Area	Hill	Sawtooth	561
Canadian Coulee, North	Hill, Liberty	Sawtooth	26,609
Cedar Creek	Fallon	Judith River, Eagle	159,062
Chain Lakes	Hill	Eagle	8,845
Charlie Creek, North	Richland	Red River	44,798
Chip Creek	Chouteau	Eagle	6,032
Clarks Fork	Carbon	Greybull	30,443
Coal Coulee	Hill	Eagle	19,437
Cut Bank	Glacier, Toole	Cut Bank, Blackleaf, Moulton, Sunburst Bow Island, Swift, Madison	3,188,897
Dean Dome	Stillwater	Greybull	1,244
Devon	Toole	Bow Island	129,952
Devon, South	Toole	Bow Island	40,234
Dry Creek	Carbon	Virgelle, Frontier, Judith River, Greybull, Eagle	762,892
Dry Creek, Middle	Carbon	Frontier	23,490
Dry Fork	Pondera	Bow Island	16,753
Dunkirk	Toole	Dakota, Bow Island	189,391
Dunkirk, North	Toole	Bow Island, Dakota, Kootenai, Swift	266,338
Eagle Springs	Toole	Bow Island, Sunburst, Swift	30,508
Ethridge Area	Toole	Swift	56,994
Ethridge, North	Toole	Swift	4,580
Fitzpatrick Lake	Toole	Bow Island	152,293
Flat Coulee	Liberty	Sawtooth, Bow Island, Dakota, Swift, Blackleaf	34,791
Fort Conrad	Toole, Pondera	Bow Island	135,138
Fred and George Creek	Toole	Sunburst, Bow Island	20,367
Fresno and Area	Hill	Eagle	42,930
Galata	Toole	Bow Island	111,721

GAS PRODUCTION DATA—1986
NATURAL GAS (CONTINUED)

Field	County	Producing Formation	Produced MCF
Gold Butte	Toole	Bow Island	814
Golden Dome	Carbon	Greybull, Frontier	208,819
Grandview	Liberty	Bow Island, Sawtooth	34,281
Gypsy Basin	Pondera	Sunburst, Madison, Sawtooth, Swift, Moulton	24,584
Hammond	Carter	Muddy	40,834
Hardin	Big Horn	Frontier	15,963
Hardpan and Area	Pondera, Chouteau	Bow Island	160,750
Havre	Hill, Blaine	Eagle	303,313
Haystack Butte	Liberty	Bow Island	19,076
Highview	Teton, Pondera	Madison	1,227
Keith Area	Liberty	Second White Specks, Sawtooth, Bow Island ..	21,982
Keith, East	Liberty	Second White Specks, Sawtooth, Bow Island, Basal Colorado Silt, Niobrara	755,164
Kevin Area	Toole	Swift, Sunburst	5,801
Kevin, Southwest	Toole	Bow Island, Sunburst, Swift, Dakota, Sunburst ..	257,613
Kevin-Sunburst	Toole	Dakota, Eagle, Madison, Swift, Nisku, Bow Island, Sunburst, Kootenai	982,087
Kevin-Sunburst Nisku	Toole	Swift	49,723
Kicking Horse	Toole	Bow Island, Sunburst, Sawtooth	49,053
Kinyon Coulee Area	Toole	Bow Island	26,186
Kinyon Coulee, South	Toole	Bow Island	606
Lake Basin	Stillwater	Claggett, Eagle, Virgelle, Telegraph Creek, Frontier, Eagle	220,852
Lake Basin, North	Stillwater	Eagle	17,214
Laredo	Hill	Eagle	11
Ledger	Pondera	Bow Island, Sawtooth	299,441
Leroy	Blaine	Eagle	701,613
Liscom Creek	Custer	Shannon	85,321
Little Basin	Stillwater	Frontier	181,903
Little Creek Area	Chouteau	Eagle, Virgelle	22,990
Little Rock	Glacier	Bow Island, Blackleaf	89,598
Lohman and Area	Blaine	Eagle	166,415
Loring, East	Phillips	Phillips, Bowdoin, Carlile-Greenhorn	1,708,744
Marias River	Toole, Pondera	Bow Island	76,082
Middle Butte	Toole, Liberty	Bow Island, Dakota, Second White Specks	17,918
Miners Coulee	Toole	Sunburst, Bow Island, Sawtooth	149,049
Mount Lily	Liberty	Madison, Swift, Bow Island	15,488
O'Briens Coulee	Liberty	Bow Island, Second White Specks, Blackleaf ..	233,581
Old Shelby	Toole	Bow Island, Sunburst, Swift	287,036
Park City	Stillwater	Virgelle	40,409
Phantom	Toole	Sunburst	43,059
Phantom, West	Toole	Sunburst	23,626
Police Coulee	Toole	Bow Island	16,636
Prairie Dell	Toole	Bow Island, Swift, Dakota, Sunburst	730,819
Prairie Dell, West	Toole	Sunburst, Swift	23,208
Prichard Creek	Toole	Bow Island	7
Rapelje	Stillwater	Eagle, Virgelle, Claggett	60,651
Rattlesnake Coulee	Toole	Bow Island, Sunburst	3,260
Red Rock Area	Hill	Eagle, Judith River	104,285
Rocky Boy	Hill	Eagle	65,701
Rudyard	Hill	Sawtooth, Eagle	189,078
Sage Creek	Liberty	Blackleaf, Second White Specks, Bow Island ..	179,610
Sandwich	Liberty	Swift	1,517
Sawtooth Mountain	Blaine	Judith River, Eagle	725,025

**GAS PRODUCTION DATA—1986
NATURAL GAS (CONTINUED)**

Field	County	Producing Formation	Produced MCF
Shelby Area	Toole	Sunburst	12,248
Sherard and Area	Blaine, Chouteau	Eagle, Judith River	473,317
Snoose Coulee	Liberty	Bow Island	16,867
Soberup Coulee	Pondera	Bow Island	1,983
Spring Coulee	Hill	Sawtooth	203,417
Strawberry Creek	Toole	Bow Island	9,509
Swanson Creek	Phillips, Valley	Phillips, Bow Island, Greenhorn	615,480
Sweetgrass	Toole	Sunburst	3,879
Three Mile	Blaine	Eagle	200,490
Tiber and Area	Toole	Bow Island	133,278
Tiger Ridge and Area	Blaine, Hill	Eagle	7,677,102
Tiger Ridge, North	Blaine	Eagle	3,081
Trail Creek	Liberty, Toole	Bow Island, Sunburst, Swift	119,410
Two Forks	Blaine	Judith River, Eagle	141
Utopia	Liberty	Sawtooth, Bow Island, Swift	83,079
Vandalia	Valley	Carlile-Greenhorn, Bowdoin, Phillips	46,938
West Butte	Toole	Bow Island, Sunburst, Swift	19,170
West Butte Shallow Gas	Toole	Bow Island, Dakota	29,245
Whitewater, East	Phillips	Bowdoin, Phillips, Greenhorn	166,325
Whitlash	Liberty	Dakota, Swift, Bow Island, Madison	286,726
Whitlash, West	Toole	Sunburst, Bow Island, Swift	14,499
Williams	Pondera	Bow Island	189,675
Willow Ridge	Toole	Bow Island, Swift, Dakota, Duperow, Sunburst, Burwash	277,041
Willow Ridge, South	Toole	Sunburst, Bow Island	177,223
SUBTOTAL NATURAL GAS			36,295,550

NATURAL GAS IMPORTED MMCF

Canada	7,626
North Dakota	32,028
Wyoming	<u>6,963</u>
	46,617

NATURAL GAS EXPORTED MMCF

Canada	89
South Dakota	4,973
North Dakota	3,356
Wyoming	16,758
Midwest	<u>9,368</u>
	34,544

GAS PRODUCTION DATA—1986 ASSOCIATED GAS

Field	County	Producing Formation	Produced MCF
Anvil	Roosevelt	Nisku, Ratcliffe, Red River	353,398
Bainville	Roosevelt	Red River, Gunton, Interlake, Madison, Winnipegosis	33,818
Bainville, North	Roosevelt	Ratcliffe, Red River, Winnipegosis	111,892
Bainville, West	Roosevelt	Red River, Madison	13,662
Bainville II	Roosevelt	Red River	57,399
Bell Creek	Carter, Powder River	Muddy	1,698
Benrud Area	Roosevelt	Madison	2,370
Benrud, East	Roosevelt	Nisku	9,562
Benrud, Northeast	Roosevelt	Nisku	3,748
Big Muddy Creek	Roosevelt	Mission Canyon, Red River	23,847
Black Diamond	Wibaux	Nisku	64,495
Bloomfield	Dawson	Interlake, Dawson Bay, Red River	32,423
Blue Hill	Richland	Red River	2,005
Blue Mountain	Wibaux	Red River	6,893
Box Canyon	Richland	Red River	19,390
Breed Creek	Rosebud	Tyler	1,181
Brorson	Richland	Mission Canyon, Madison, Red River, Bakken, Ratcliffe	83,782
Brorson, South	Richland	Red River, Ratcliffe, Mission Canyon	49,980
Brush Lake	Sheridan	Red River	59,249
Burns Creek	Dawson, Richland	Duperow	333
Cabin Creek	Fallon	Madison, Siluro-Ord, Red River	608,029
Canal	Richland	Madison, Red River, Mission Canyon	51,593
Cannon Ball	Fallon	Red River	1,326
Carlyle	Wibaux	Siluro-Ord	11,268
Charlie Creek	Richland	Nisku	55,997
Charlie Creek, East	Richland	Red River, Duperow	29,200
Charlie Creek, North	Richland	Bakken, Madison	1,174
Clear Lake	Sheridan	Madison, Nisku, Red River, Ratcliffe, Mission Canyon	160,686
Clear Lake, South	Sheridan	Red River	11,296
Colored Canyon	Sheridan	Red River, Nisku	67,136
Comertown	Sheridan	Nisku, Ratcliffe, Red River	65,749
Comertown, South	Sheridan	Nisku, Red River	13,649
Corner Pocket	Richland	Red River	2,499
Cottonwood	Richland	Red River	22,283
Crane	Richland	Devonian, Siluro-Ord, Red River	189,830
Cupton	Fallon	Red River	36,866
Cut Bank	Pondera, Glacier, Toole	Madison, Moulton, Sunburst	40,960
Dagmar	Sheridan	Red River	50,820
Dagmar, North	Sheridan	Red River	4,240
Deer Creek	Dawson	Interlake, Red River	1,956
Diamond Point	Roosevelt	Red River	15,560
Divide	Sheridan	Madison, Ratcliffe	31,804
Dry Creek	Carbon	Greybull, Eagle	130,963
Dutch John Coulee	Toole	Sunburst	135,954
Dwyer	Sheridan	Charles, Ratcliffe, Red River, Interlake	87,911
Eagle	Richland	Mission Canyon, Madison, Red River, Bakken, Duperow, Ratcliffe, Devonian	87,705
Elk Basin	Carbon	Madison, Tensleep	464,206
Enid, North	Richland	Red River, Bakken	20,359
Fairview	Richland	Mission Canyon, Interlake, Madison, Red River, Ratcliffe	397,166
Fairview, East	Richland	Red River	17,290
Fairview, West	Richland	Ratcliffe	7,149
Fertile Prairie	Fallon	Red River	10,335
Fishhook	Sheridan	Red River	50,800
Flat Coulee (Swift SU)	Liberty	Swift	10,581

**GAS PRODUCTION DATA—1986
ASSOCIATED GAS (CONTINUED)**

Field	County	Producing Formation	Produced MCF
Flat Lake	Sheridan	Nisku, Ratcliffe	84,517
Flat Lake, South	Sheridan	Ratcliffe	3,806
Flaxville	Daniels	Mission Canyon	5,439
Fort Gilbert	Richland	Madison, Red River, Mission Canyon, Duperow	98,740
Four Mile Creek	Richland	Red River	11,421
Fox Creek	Richland	Stonewall	4,026
Fox Creek, North	Richland	Madison	23
Frannie	Carbon	Tensleep	45
Frog Coulee	Richland	Red River	2,635
Froid, South	Roosevelt	Red River	4,961
Gas City	Dawson	Red River, Madison, Siluro-Ord	5,273
Girard	Richland	Red River	32,403
Glendive	Dawson	Siluro-Ord, Red River, Stoney Mtn.	15,784
Golden Dome	Carbon	Greybull	59,514
Goose Lake	Sheridan	Ratcliffe, Red River	41,270
Goose Lake, West	Sheridan	Red River	22,153
Gossett	Richland	Stoney Mountain, Red River, Madison	17,339
Gumbo Ridge	Rosebud	Tyler	727
Gunsight	Roosevelt	Mission Canyon	36
Gypsy Basin	Pondera, Teton	Madison	349
Hardscrable Creek	Richland	Red River	5,994
Hay Creek	Richland	Interlake, Mission Canyon, Red River	36,074
Hiawatha	Musselshell	Tyler, Stensvad	1,808
High Five	Rosebud	Stensvad	6,437
Highview	Teton, Pondera	Madison	14,793
Honker	Sheridan	Red River	9,595
Intake II	Richland	Red River	89,486
Intake II, Area	Richland	Mission Canyon	508
Jim Coulee	Musselshell	Tyler	5,087
Jim Coulee, North	Musselshell	Tyler, Stensvad	300
Katy Lake	Sheridan	Red River	49,843
Katy Lake, North	Sheridan	Red River, Mission Canyon, Nesson, Madison	231,206
Keg Coulee	Musselshell	Tyler	91
Kelley Unit	Musselshell	Tyler	1,570
Kevin-Sunburst	Toole	Madison, Nisku, Sunburst	326,420
Kevin, East Nisku Oil	Toole	Nisku	54,633
Kincheloe Ranch, West	Rosebud	Tyler	12,590
Laird Creek	Liberty	Swift	721
Lambert	Richland	Red River	33,691
Landslide Butte	Glacier	Madison	186,414
Leary	Powder River	Muddy	105
Little Beaver	Fallon	Red River, Siluro-Ord	28,119
Little Beaver, East	Fallon	Red River, Siluro-Ord	29,407
Little Wall Creek	Musselshell	Tyler, Lower Tyler, Stensvad	16,851
Little Wall Creek, South	Musselshell	Tyler	134,785
Lobo	Sheridan, Roosevelt	Interlake, Red River	54,564
Lone Butte	Richland	Red River	30,221
Lonetree Creek	Richland	Red River	103,757
Lookout Butte	Fallon	Siluro-Ord, Madison	91,104
Lookout Butte, East	Fallon	Red River	3,375
Lowell	Sheridan	Red River	5,306
Lustre	Valley	Madison, Charles, Mission Canyon, Ratcliffe, Charles C	128,404
Lustre Area	Valley	Charles, Mission Canyon	1,746
McCabe	Roosevelt	Ratcliffe	15,499
McCabe, East	Roosevelt	Winnipegosis	157
McCabe, West	Roosevelt	Red River	19,428
McCoy Creek	Sheridan	Red River	5,863
Medicine Lake	Sheridan	Winnipegosis, Red River, Gunton, Interlake	302,452
Melstone	Musselshell	Tyler	11,356
Midfork	Valley	Charles C, Nisku	1,393

**GAS PRODUCTION DATA—1986
ASSOCIATED GAS (CONTINUED)**

Field	County	Producing Formation	Produced MCF
Miner's Coulee	Toole	Sunburst	43
Missouri Breaks	Richland	Red River	20,527
Mona	Richland	Red River	33,756
Monarch	Fallon	Siluro-Ord, Red River	9,851
Mondak, West	Richland	Devonian, Madison, Red River, Ratcliffe, Siluro-Ord, Stoney Mountain, Ordovician	369,846
Mustang	Richland	Red River	36,640
Neisser Creek	Sheridan	Red River	22,627
Ninemile	Toole	Nisku, Sunburst	7,567
Nohly	Richland	Red River, Nisku, Ratcliffe	379,796
Nohly, South	Richland	Red River	35,689
North Fork	Richland	Madison, Mission Canyon	32,850
Olje	Sheridan	Red River, Mission Canyon	15,295
Ollie	Fallon	Duperow, Red River	1,360
Otis Creek	Richland	Red River	15,180
Otis Creek, South	Richland	Red River	22,848
Outlook	Sheridan	Duperow, Winnipegosis, Nisku, Interlake	26,450
Outlook, South	Sheridan	Winnipegosis	1,591
Outlook, West	Sheridan	Winnipegosis	755
Oxbow	Roosevelt	Red River	19,000
Oxbow II	Roosevelt	Red River	10,624
Palomino	Roosevelt	Nisku	619
Pelican	Sheridan	Red River	13,753
Pennel	Fallon	Stoney Mountain, Siluro-Ord, Red River	690,657
Pine	Fallon, Wibaux, Prairie, Dawson	Interlake, Red River, Siluro-Ord, Stoney Mountain	325,885
Pipeline	Sheridan	Red River	2,852
Poplar, East	Roosevelt	Charles, Nisku, Charles B, Charles C	44,272
Poplar Area, Northwest	Roosevelt	Charles C	79,456
Poplar, Northwest	Roosevelt	Charles C, Madison, Charles B, Charles	192,847
Prichard Creek	Toole	Sunburst	338
Pronghorn	Sheridan	Red River, Interlake	49,371
Putnam	Richland	Bakken, Madison, Red River, Interlake	227,560
Rainbow	Richland	Red River	16,224
Rattler Butte	Rosebud	Tyler	2,106
Rattlesnake Butte	Petroleum	Amsden, Cat Creek 1	11,685
Rattlesnake Coulee	Toole	Sunburst	124
Raymond	Sheridan	Mississippian, Red River, Winnipegosis, Nisku, Duperow	262,646
Raymond, North	Sheridan	Red River	4,996
Reagan	Glacier	Madison	370,871
Red Bank	Roosevelt	Ratcliffe, Red River, Mission Canyon	34,742
Red Bank, South	Roosevelt	Red River	20,293
Red Creek Unit	Glacier	Cut Bank, Madison	11,774
Red Fox	Roosevelt	Nisku	85
Red Water	Richland	Duperow	11,122
Red Water, East	Richland	Red River	14,968
Redstone	Sheridan	Winnipegosis	950
Refuge	Sheridan	Red River	19,110
Repeat	Carter	Red River	300
Reserve	Sheridan	Red River, Winnipegosis	23,928
Reserve, South	Sheridan	Red River	12,039
Richey, Southwest	McCone	Interlake	1,488
Ridgelawn	Richland	Madison, Red River, Ratcliffe, Duperow Mission Canyon	586,967
RipRap Coulee	Roosevelt	Ratcliffe	6,442
River Bend	Richland	Red River	24,194
Rocky Point	Roosevelt	Red River	93,730
Rosebud	Rosebud	Tyler	1,246
Royals	Dawson	Dawson Bay	45,827

**GAS PRODUCTION DATA—1986
ASSOCIATED GAS (CONTINUED)**

Field	County	Producing Formation	Produced MCF
Rush Mountain	Sheridan	Red River, Gunton, Winnipegosis	23,378
Sand Creek	Dawson	Interlake	6,090
Saturn	Daniels	Ratcliffe	1,894
Second Creek	Richland	Red River	45,090
Shotgun Creek	Roosevelt	Ratcliffe	15,514
Sidney	Richland	Madison, Red River, Mission Canyon, Ratcliffe	103,371
Sidney, East	Richland	Madison, Ratcliffe	32,369
Singletree	Roosevelt	Winnipegosis	18,783
Sioux Pass	Richland	Red River, Mission Canyon	56,357
Sioux Pass, East	Richland	Red River	1,547
Sioux Pass, Middle	Richland	Red River	68,533
Sioux Pass, North	Richland	Nisku, Madison, Ratcliffe, Red River	163,109
Sioux Pass, South	Richland	Red River	21,318
South Fork	Richland	Red River	26,377
Spring Lake	Richland	Bakken, Red River	39,331
Spring Lake, South	Richland	Red River	28,092
Spring Lake, West	Richland	Bakken	5,385
Stampede	Richland	Red River, Duperow	38,786
Studhorse	Garfield	Stensvad	1,419
Sumatra	Rosebud	Tyler	107,435
Sunny Hill	Sheridan	Madison, Red River	1,842
Sunny Hill, West	Sheridan	Red River	23,153
Three Buttes	Richland	Gunton, Red River, Mission Canyon	33,233
Tippy Buttes	Musselshell	Tyler	1,219
Tule Creek	Roosevelt	Nisku, Devonian	39,292
Tule Creek, East	Roosevelt	Nisku	8,485
Tule Creek, South	Roosevelt	Dakota, Nisku	4,328
Two Waters	Richland	Bakken	3,128
Vaux	Richland	Ratcliffe, Madison, Interlake, Mission Canyon, Red River, Stonewall, Bakken	207,951
Wakea	Sheridan	Red River, Interlake, Winnipegosis	118,824
Weed Creek	Yellowstone	Amsden	629
Whitlash	Liberty	Swift, Sunburst	69,436
Wills Creek, South	Fallon	Siluro-Ord	4,832
Wolf Springs	Yellowstone	Amsden	17,486
Woodrow	Dawson	Charles	2,184
Wrangler	Sheridan	Red River	45,969
Wrangler, North	Sheridan	Red River	5,100
Wright Creek	Powder River	Muddy	3,100
Wildcat	Toole		1,146
SUBTOTAL ASSOCIATED GAS PRODUCED			11,950,356
SUBTOTAL NATURAL GAS PRODUCED			36,295,550
TOTAL GAS			48,245,906

REFINERS' YEARLY TOTAL—1986

COMPANY	BEGINNING STORAGE	MONTANA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
CONTINENTAL OIL CO.	144,383	2,021,610	4,077,544	10,265,769	16,415,080	94,226
EXXON COMPANY	174,358	241,252	7,685,221	4,949,769	12,901,701	148,639
FARMERS UNION	208,978	1,887,106	2,032,408	7,383,784	11,295,019	217,257
FLYING J OIL	5,614	—	—	—	—	5,614
MONTANA REFINING CO.	7,617	1,869,452	—	178,633	2,040,857	14,845
TOTALS	540,950	6,019,420	13,795,173	22,777,955	42,652,657	480,581

PERCENTAGE OF CRUDE OIL RECEIVED

YEAR	MONTANA	CANADA	N. DAKOTA	WYOMING
1982	21.40	36.47	.00	42.13
1983	16.98	37.16	.11	45.75
1984	18.21	33.80	.13	47.86
1985	18.97	39.06	.03	41.94
1986	14.13	53.48	.00	32.39

AVERAGE BARRELS PER DAY

YEAR	MONTANA	CANADA	N. DAKOTA	WYOMING	TOTAL
1982	24,763	42,198	—	48,749	115,710
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

REFINING FIVE YEAR COMPARISON

1982	1983	1984	1985	1986
42,234,413	41,932,061	42,944,663	41,296,085	42,652,657

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

YEAR 1986 AND ACCUMULATED TOTAL FROM DISCOVERY DATE

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Ace High	Rosebud	3,686	45,448	12.33	3,686	45,448
Anvil	Roosevelt	411,356	5,647,917	13.73	2,590,877	67,166,614
Ash Creek	Big Horn	4,692	60,245	12.84	816,336	3,166,159
Bainville	Roosevelt	53,674	708,496	13.20	455,117	5,353,016
Bainville, North	Roosevelt	128,672	1,782,107	13.85	1,054,686	31,049,708
Bainville, West	Roosevelt	10,732	154,862	14.43	183,260	5,353,102
Bainville II	Roosevelt	103,111	1,408,496	13.66	349,669	8,186,618
Bannatyne	Teton	12,037	135,777	11.28	330,615	3,208,523
Beanblossom	Garfield	118,969	1,504,957	12.65	204,631	3,673,672
Bear's Den	Liberty	6,662	78,278	11.75	498,366	3,217,780
Bell Creek	Powder River	1,275,036	15,109,176	11.85	127,603,753	1,145,593,957
Benrud	Roosevelt	3,250	58,077	17.87	270,357	2,128,686
Benrud, East	Roosevelt	39,816	529,552	13.30	2,667,430	16,924,455
Benrud, Northeast	Roosevelt	8,757	119,883	13.69	959,339	4,201,229
Berthelote	Toole	552	6,033	10.93	57,383	298,859
Big Gully	Musselshell	834	9,165	10.99	98,204	1,455,753
Big Gully, North	Musselshell	59	649	11.00	23,952	535,803
Big Muddy Creek	Roosevelt	33,184	446,324	13.45	1,184,047	19,911,206
Big Rock	Glacier	2,541	37,784	14.87	10,424	257,226
Big Wall	Musselshell	83,484	1,028,522	12.32	7,448,321	33,822,415
Black Diamond	Wibaux	110,085	1,477,340	13.42	218,264	4,770,285
Blackfoot	Glacier	49,257	639,355	12.98	1,394,375	11,086,153
Blackleaf Canyon	Teton	2,935	18,872	6.43	31,825	790,983
Bloomfield	Dawson	71,322	884,392	12.40	266,566	6,000,810
Blue Hill	Richland	2,455	35,671	14.53	162,251	3,110,843
Blue Mountain	Wibaux	8,601	118,951	13.83	39,628	963,328
Border	Toole	12,995	166,465	12.81	1,392,873	4,762,139
Bowes	Blaine	121,013	1,058,863	8.75	9,372,088	38,649,578
Box Canyon	Richland	16,065	244,509	15.22	185,727	5,832,422
Bradley	Glacier	2,746	32,210	11.73	246,295	1,572,787
Brady	Pondera	8,788	95,877	10.91	153,908	2,948,982
Breed Creek	Rosebud	89,404	1,102,351	12.33	1,015,553	21,120,581
Brorson-Madison	Richland	109,652	1,453,985	13.26	851,787	11,661,925
Brorson-Red River	Richland	33,177	443,244	13.36	2,131,426	13,728,468
Brorson, South	Richland	35,653	460,280	12.91	1,536,909	16,186,438
Brush Lake	Sheridan	80,916	1,131,205	13.98	2,390,051	21,955,469
Buffalo Flats	Chouteau	95	1,282	13.50	564	14,384
Burget, East	Roosevelt	23,196	279,511	12.05	135,451	3,532,812
Burns Creek	Dawson, Richland	2,616	27,206	10.40	237,313	2,826,525
Burns Creek, South	Richland	1,427	18,493	12.96	79,958	2,279,384
Cabin Creek	Fallon	1,719,600	24,418,320	14.20	87,210,062	494,671,518
Canal	Richland	50,364	653,221	12.97	946,083	14,479,861
Cannonball	Fallon	1,292	19,302	14.94	54,475	1,793,665
Carlyle	Wibaux	14,538	184,487	12.69	262,614	6,116,769
Cat Creek	Petroleum, Garfield	57,713	797,593	13.82	23,375,175	67,207,773
Charlie Creek	Richland	57,919	769,743	13.29	633,378	11,155,814
Charlie Creek, East	Richland	35,562	484,710	13.63	283,920	8,555,641
Charlie Creek, North	Richland	2,478	33,130	13.37	39,231	1,112,263
Chelsea Creek	Roosevelt	24,136	326,318	13.52	62,503	1,053,140
Clark's Fork	Carbon	877	11,041	12.59	88,286	389,417
Clear Lake	Sheridan	220,425	3,079,337	13.97	1,913,294	46,295,767
Clear Lake, South	Sheridan	29,673	418,389	14.10	98,747	2,233,058
Coal Ridge	Sheridan	852	11,502	13.50	21,871	783,785

PRODUCTION YEAR 1986

**CUMULATIVE TO
DECEMBER 31, 1986**

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Colored Canyon	Sheridan	60,848	875,602	14.39	711,052	18,570,704
Comertown	Sheridan	173,709	2,478,827	14.27	1,605,688	46,521,055
Comertown, South	Sheridan	44,752	621,157	13.88	144,812	3,204,783
Conrad, South	Pondera	1,172	12,786	10.91	145,517	916,856
Corner Pocket	Richland	1,219	21,442	17.59	14,483	353,729
Cottonwood	Richland	26,720	363,124	13.59	115,005	2,631,194
Cow Creek	McCone	1,111	15,776	14.20	127,813	1,304,283
Cow Creek, East	McCone	47,611	562,762	11.82	2,278,749	25,930,356
Crane	Richland	114,508	1,680,977	14.68	1,134,931	33,930,561
Crocker Springs, East	Pondera	12	162	13.50	1,420	40,990
Crooked Creek	Yellowstone	11,320	163,460	14.44	19,814	385,068
Cupton	Fallon	73,320	1,030,146	14.05	2,014,189	25,931,093
Cut Bank	Glacier, Toole	1,008,210	13,419,275	13.31	159,336,974	673,035,908
Dagmar	Sheridan	33,008	509,973	15.45	496,676	11,262,828
Dagmar, North	Sheridan	3,629	50,987	14.05	52,632	1,606,926
Deadman's Coulee	Roosevelt	12,413	172,168	13.87	264,528	8,048,112
Dean Dome	Stillwater	2,030	19,975	9.84	92,445	1,534,865
Deer Creek	Dawson	4,583	64,528	14.08	2,303,139	6,502,192
Delphia	Musselshell	2,782	33,439	12.02	320,570	1,449,565
Devil's Basin	Musselshell	1,451	23,303	16.06	103,303	1,595,089
Devil's Pocket	Golden Valley	7,770	84,226	10.84	29,411	618,524
Diamond Point	Roosevelt	19,281	236,385	12.26	576,844	13,424,685
Divide	Sheridan	122,574	1,545,658	12.61	1,309,386	36,547,729
Dry Creek	Carbon	6,775	88,278	13.03	4,133,630	9,800,676
Dry Creek, Middle	Carbon	140	1,505	10.75	587	13,526
Dry Creek, West	Carbon	208	2,704	13.00	5,250	151,533
Dutch John Coulee	Toole	50,705	769,701	15.18	87,182	1,733,058
Dwyer	Sheridan	201,840	2,771,263	13.73	7,549,651	56,753,653
Eagle	Richland	142,438	1,898,698	13.33	1,344,102	33,587,290
East Glacier	Glacier	836	10,466	12.52	20,238	640,718
Elk Basin	Carbon	693,451	9,243,701	13.33	80,624,341	323,506,649
Enid, North	Richland	17,007	237,587	13.97	238,133	6,594,071
Fairview	Richland	237,907	3,261,704	13.71	7,793,939	73,525,030
Fairview, East	Richland	13,929	189,991	13.64	325,318	9,980,301
Fairview, West	Richland	20,367	274,954	13.50	150,274	4,122,715
Fertile Prairie	Fallon	23,683	338,193	14.28	624,085	6,288,915
Fiddler Creek	Stillwater	132	1,782	13.50	2,554	49,889
Fishhook	Sheridan	79,510	1,074,180	13.51	858,964	25,134,711
Flat Coulee	Liberty	119,275	1,625,718	13.63	4,380,830	45,277,348
Flat Lake	Sheridan	335,543	4,170,799	12.43	14,417,814	114,816,453
Flat Lake, East	Sheridan	8,570	110,724	12.92	17,907	356,265
Flat Lake, South	Sheridan	33,786	413,878	12.25	1,121,243	12,360,733
Flaxville	Daniels	6,706	100,992	15.06	52,709	1,336,623
Fort Gilbert	Richland	98,787	1,402,775	14.20	1,887,270	26,784,733
Four Mile Creek	Richland	13,640	176,365	12.93	337,525	6,349,731
Four Mile Creek, West	Richland	8,466	109,465	12.93	237,622	5,416,639
Fox Creek	Richland	5,432	72,082	13.27	195,314	4,554,429
Fox Creek, North	Richland	3,273	43,432	13.27	67,200	1,743,526
Frannie	Carbon	4,512	57,708	12.79	756,812	2,721,217
Fred & George Creek	Toole	100,716	1,443,260	14.33	12,790,965	78,954,448
Frog Coulee	Richland	13,563	174,962	12.90	145,590	4,313,701
Froid, South	Roosevelt	6,208	85,732	13.81	208,416	2,033,741
Gage	Musselshell	5,227	73,178	14.00	626,787	3,032,662

**CUMULATIVE TO
DECEMBER 31, 1986**

PRODUCTION YEAR 1986

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Gas City	Dawson	111,177	1,539,801	13.85	9,762,104	50,674,598
Girard	Richland	38,901	533,721	13.72	313,600	3,030,700
Glendive	Dawson	141,021	1,979,934	14.04	12,211,876	58,648,738
Golden Dome	Carbon	3,676	43,964	11.96	68,979	921,129
Goose Lake	Sheridan	130,038	1,723,003	13.25	8,417,714	59,397,963
Goose Lake, West	Sheridan	49,799	944,687	18.97	368,764	10,274,057
Gossett	Richland	34,698	497,222	14.33	195,033	4,907,598
Graben Coulee	Glacier	92,856	1,238,699	13.34	1,868,499	21,682,732
Grandview, East	Liberty	3,243	40,569	12.51	35,786	913,005
Green Coulee	Sheridan	17,661	253,965	14.38	128,759	3,642,436
Green Coulee, East	Sheridan	4,434	73,161	16.50	62,942	1,741,899
Gumbo Ridge	Rosebud	15,086	190,083	12.60	574,333	11,058,756
Gunsight	Roosevelt	20,294	287,971	14.19	143,641	3,720,310
Gypsy Basin	Pondera	16,810	213,318	12.69	425,769	6,755,880
Hardpan	Pondera	207	3,102	14.99	1,637	44,046
Hardscrabble Creek	Richland	10,934	116,119	10.62	90,944	2,363,575
Hawk Creek	Musselshell	104	1,404	13.50	9,842	113,187
Hay Creek	Richland	37,914	533,070	14.06	1,217,127	9,772,238
Hiawatha	Musselshell	19,798	258,165	13.04	1,492,642	8,909,348
Hibbard	Rosebud	44	594	13.50	215,904	1,978,565
High Five	Rosebud	133,706	1,776,952	13.29	1,997,651	43,264,077
Highview	Pondera	10,968	130,190	11.87	55,105	1,329,869
Honker	Sheridan	7,842	107,278	13.68	87,821	2,628,812
Horse Creek	Liberty	366	4,948	13.52	9,759	194,602
Howard Coulee	Musselshell	1,603	20,839	13.00	123,318	1,843,718
Injun Creek	Rosebud	2,863	33,039	11.54	113,555	2,822,312
Intake II	Richland	48,609	666,429	13.71	595,832	17,357,205
Ivanhoe	Musselshell	6,395	90,297	14.12	4,494,390	14,223,431
Jim Coulee	Musselshell	67,142	876,203	13.05	4,042,752	40,730,500
Katy Lake	Sheridan	52,549	678,407	12.91	84,891	1,515,135
Katy Lake, North	Sheridan	354,915	4,723,918	13.31	2,899,476	85,602,678
Keg Coulee	Musselshell	103,255	1,443,504	13.98	5,394,349	32,542,960
Keg Coulee, North	Musselshell	7,684	101,198	13.17	435,446	4,779,784
Kelley	Musselshell	12,406	166,984	13.46	968,793	5,630,370
Kevin-Sunburst	Toole	519,535	6,935,792	13.35	77,107,837	261,272,038
Kevin Nisku Oil, East	Toole	74,226	999,824	13.47	149,426	2,973,643
Kicking Horse	Toole	83	1,120	13.50	1,526	48,566
Kincheloe Ranch, West	Rosebud	45,289	605,061	13.36	478,237	13,884,172
Laird Creek	Liberty	6,201	80,240	12.94	565,166	4,497,360
Lambert	Richland	23,760	349,509	14.71	339,384	10,124,192
Lamesteer Creek	Wibaux	4,845	75,872	15.66	17,318	405,629
Landslide Butte	Glacier	55,025	735,134	13.36	191,399	3,597,005
Leary	Powder River	21,388	263,714	12.33	592,276	8,728,211
Little Beaver	Fallon	381,253	5,116,415	13.42	11,572,853	94,941,026
Little Beaver, East	Fallon	111,372	1,494,612	13.42	5,265,038	33,883,172
Little Phantom	Toole	2,611	36,580	14.01	47,476	1,020,370
Little Wall Creek	Musselshell	288,049	3,620,775	12.57	3,311,721	60,731,333
Lobo	Sheridan, Roosevelt	84,148	1,127,583	13.40	84,148	1,127,583
Lodge Grass	Big Horn	3,503	44,978	12.84	284,307	1,538,589
Lone Butte	Richland	51,224	679,230	13.26	481,496	8,079,727
Lonetree Creek	Richland	91,632	1,232,450	13.45	3,169,323	37,223,651
Lonetree Creek, West	Richland	82	1,089	13.29	32,986	1,019,876
Long Creek	Roosevelt	3,790	47,791	12.61	58,355	1,169,455
Long Creek, West	Roosevelt	43,426	547,601	12.61	500,353	11,248,439

PRODUCTION YEAR 1986

**CUMULATIVE TO
DECEMBER 31, 1986**

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Lookout Butte	Fallon	508,500	7,134,255	14.03	22,492,270	149,257,728
Lookout Butte, East	Fallon	38,289	537,194	14.03	38,289	537,194
Lowell	Sheridan	14,951	201,389	13.47	191,003	5,866,417
Lustre	Valley	653,342	8,428,111	12.90	2,750,279	64,759,882
Lustre, North	Valley	30,321	385,986	12.73	100,713	2,184,062
Mackay Dome	Stillwater	1,685	18,973	11.26	77,334	1,538,558
Mason Lake	Musselshell	24,206	347,840	14.37	924,453	22,953,001
McCabe	Roosevelt	13,298	192,156	14.45	203,448	5,363,007
McCabe, East	Roosevelt	45	607	13.50	6,805	205,642
McCabe, West	Roosevelt	15,123	211,570	13.99	53,975	1,248,001
McCoy Creek	Sheridan	8,870	121,962	13.75	25,234	536,134
Meander	Pondera	691	7,531	10.90	3,761	99,571
Medicine Lake	Sheridan	197,581	2,805,650	14.20	2,426,758	74,424,755
Melstone	Musselshell	95,934	1,082,135	11.28	3,243,997	41,000,481
Midfork	Valley	51,482	664,117	12.90	55,717	768,975
Mineral Bench	Roosevelt	3,828	74,454	19.45	176,442	1,242,119
Miners Coulee	Toole	69	874	12.68	152,152	1,129,578
Missouri Breaks	Richland	21,303	284,821	13.37	245,502	6,967,784
Mon Dak, West	Richland	447,879	6,104,590	13.63	7,052,481	172,776,432
Mona	Richland	3,478	46,083	13.25	65,146	1,933,064
Monarch	Fallon	157,502	2,096,351	13.31	5,182,534	38,978,346
Mosser Dome	Yellowstone	11,262	123,206	10.94	348,297	2,505,902
Musselshell	Musselshell	2,129	26,867	12.62	27,555	369,679
Mustang	Richland	32,442	422,719	13.03	409,105	12,582,172
Neiser Creek	Sheridan	28,378	374,305	13.19	141,304	3,541,872
Ninemile	Toole	18,514	227,166	12.27	27,797	460,447
Nohly	Richland	562,060	7,638,395	13.59	2,556,225	43,661,901
Nohly, South	Richland	8,558	121,951	14.25	124,425	3,492,900
North Fork	Richland	27,127	367,028	13.53	393,759	8,491,961
Olje	Sheridan	40,873	495,380	12.12	79,536	1,462,728
Ollie	Fallon	8,432	107,508	12.75	193,559	6,393,478
Otis Creek	Richland	16,973	233,209	13.74	786,108	10,446,734
Otis Creek, South	Richland	25,297	329,619	13.03	166,117	4,373,720
Outlook	Sheridan	114,443	1,749,833	15.29	8,380,693	56,867,394
Outlook, South	Sheridan	3,654	55,869	15.29	689,607	2,821,174
Outlook, West	Sheridan	32,735	554,203	16.93	693,412	5,636,601
Oxbow	Roosevelt	28,913	420,973	14.56	299,691	6,754,122
Oxbow II	Roosevelt	8,221	119,697	14.56	27,343	632,792
Palomino	Roosevelt	155,318	2,211,728	14.24	1,052,673	29,931,353
Pelican	Sheridan	11,836	169,254	14.30	152,155	4,653,964
Pennel	Fallon	3,224,291	46,171,847	14.32	66,196,963	774,410,106
Pete Creek	Toole	1,274	14,880	11.68	17,114	374,529
Pine	Dawson, Prairie, Fallon, Wibaux	1,545,920	21,936,604	14.19	102,484,504	581,223,647
Pipeline	Sheridan	9,441	116,218	12.31	9,441	116,218
Police Coulee	Toole	14	189	13.50	14	189
Pondera	Pondera, Teton	402,567	5,213,242	12.95	24,115,454	137,743,581
Pondera Coulee	Teton	4,821	53,368	11.07	51,150	716,372
Poplar, East	Roosevelt	178,954	2,380,088	13.30	44,772,663	169,751,776
Poplar, Northwest	Roosevelt	282,907	3,686,278	13.03	2,658,356	46,624,237
Prairie Dell	Toole	137	1,013	7.40	452	9,868
Prairie Elk	McCone	4,870	63,797	13.10	82,876	1,294,916
Prichard Creek	Toole	4,131	59,486	14.40	156,316	2,369,325

**CUMULATIVE TO
DECEMBER 31, 1986**

PRODUCTION YEAR 1986

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Pronghorn	Sheridan	36,950	615,956	16.67	326,817	8,771,443
Putnam	Richland	466,361	6,100,001	13.08	3,606,831	79,855,388
Rabbit Hills	Blaine	77,457	727,321	9.39	887,956	13,905,510
Ragged Point	Musselshell	101,574	1,412,894	13.91	3,687,327	30,237,242
Rainbow	Richland	11,441	162,004	14.16	102,819	2,886,007
Rattler Butte	Rosebud	43,553	607,564	13.95	812,593	22,338,190
Rattlesnake Butte	Petroleum	89,107	1,075,521	12.07	258,285	5,115,845
Rattlesnake Coulee	Toole	700	8,351	11.93	90,831	689,920
Raymond	Sheridan	179,882	2,498,560	13.89	4,013,402	71,843,119
Raymond, North	Sheridan	13,108	178,793	13.64	111,249	2,965,213
Reagan	Glacier	185,602	2,544,603	13.71	8,156,637	75,146,921
Red Bank	Roosevelt	130,438	1,592,647	12.21	1,362,453	39,751,899
Red Bank, South	Roosevelt	22,037	299,482	13.59	270,438	7,702,844
Red Creek	Glacier	114,120	1,412,805	12.38	5,885,113	30,297,723
Red Fox	Roosevelt	286	3,589	12.55	375,111	1,587,181
Red Water	Richland	5,351	75,502	14.11	52,023	1,521,507
Red Water, East	Richland	18,358	259,031	14.11	163,005	4,165,679
Redstone	Sheridan	3,134	42,089	13.43	467,649	2,204,301
Refuge	Sheridan	17,132	247,214	14.43	139,778	4,358,550
Repeat	Carter	8,203	100,896	12.30	523,152	2,981,692
Reserve	Sheridan	24,837	338,031	13.61	1,567,407	13,653,914
Reserve, South	Sheridan	16,186	255,576	15.79	16,186	255,576
Richey	Dawson, McCone	6,203	89,695	14.46	1,986,252	6,949,138
Richey, Southwest	McCone	1,730	29,652	17.14	1,898,332	6,324,335
Ridgelawn	Richland	562,784	7,440,004	13.22	3,640,525	100,915,219
RipRap Coulee	Roosevelt	46,482	600,082	12.91	417,650	9,229,162
River Bend	Richland	19,645	245,758	12.51	148,578	4,058,342
Rocky Point	Roosevelt	36,661	519,119	14.16	398,593	10,545,433
Roscoe Dome	Carbon	470	8,441	17.96	15,556	348,482
Rosebud	Rosebud	10,097	132,775	13.15	429,410	6,687,694
Royals	Dawson	23,003	314,911	13.69	217,737	6,463,149
Rudyard	Hill	1,290	10,152	7.87	13,585	282,649
Runaway	Teton	252	2,623	10.41	3,651	108,150
Rush Mountain	Sheridan	43,191	618,063	14.31	525,632	5,323,091
Salt Lake	Sheridan	15,688	226,691	14.45	388,255	4,034,852
Sand Creek	Dawson	15,667	223,881	14.29	2,329,344	11,484,352
Saturn	Daniels	9,044	121,551	13.44	23,282	465,113
Second Creek	Richland	40,097	565,367	14.10	1,086,244	17,444,999
Sheepherder	Musselshell	2,465	31,157	12.64	74,227	1,236,250
Shotgun Creek	Roosevelt	47,478	653,297	13.76	258,406	4,609,654
Sidney	Richland	137,157	1,844,761	13.45	2,706,453	54,517,749
Sidney, East	Richland	35,968	483,050	13.43	461,291	14,295,119
Singletree	Roosevelt	32,553	484,388	14.88	259,291	5,805,318
Sioux Pass	Richland	101,630	1,313,059	12.92	2,910,651	47,896,763
Sioux Pass, East	Richland	10,153	122,749	12.09	73,692	1,373,322
Sioux Pass, Middle	Richland	66,245	878,408	13.26	1,198,704	28,366,165
Sioux Pass, North	Richland	202,116	2,736,650	13.54	3,064,711	72,986,878
Sioux Pass, South	Richland	20,902	288,238	13.79	164,822	4,492,542
Snyder	Big Horn	2,503	24,729	9.88	453,303	1,725,029
Soap Creek	Big Horn	46,437	458,797	9.88	2,462,082	15,985,652
Soap Creek, East	Big Horn	11,852	117,097	9.88	107,263	2,047,812
South Fork	Richland	39,926	491,888	12.32	820,045	16,530,993
Spring Lake	Richland	31,566	410,989	13.02	846,566	6,335,750

FIELD	COUNTY	PRODUCTION YEAR 1986			CUMULATIVE TO DECEMBER 31, 1986	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Spring Lake, South	Richland	9,708	123,582	12.73	89,959	2,600,244
Spring Lake, West	Richland	10,668	146,258	13.71	15,882	273,844
Stampede	Richland	24,985	331,800	13.28	207,983	5,865,502
Stensvad	Musselshell, Rosebud	10,526	130,732	12.42	10,088,875	27,565,249
Studhorse	Garfield	30,202	382,357	12.66	134,655	3,211,653
Sumatra	Rosebud	505,154	7,183,289	14.22	42,025,130	293,859,048
Sunnyhill	Sheridan	5,229	72,212	13.81	199,034	5,131,263
Sunnyhill, West	Sheridan	21,810	301,196	13.81	89,058	2,114,818
Target	Roosevelt	47,219	602,514	12.76	497,929	13,641,872
Thirty Mile	Blaine	839	8,054	9.60	4,082	88,658
Three Buttes	Richland	40,205	556,035	13.83	271,338	7,785,129
Tippy Buttes	Musselshell	4,324	55,779	12.90	117,377	3,474,052
Tule Creek	Roosevelt	64,797	876,055	13.52	7,921,974	39,262,903
Tule Creek, East	Roosevelt	6,316	82,865	13.12	2,002,729	6,987,728
Tule Creek, South	Roosevelt	55,725	739,470	13.27	836,229	6,168,881
Two Waters	Richland	19,599	286,929	14.64	129,371	3,846,797
Utopia Swift	Liberty	43,894	559,648	12.75	473,337	10,702,678
Vaux	Richland	270,526	3,454,617	12.77	2,593,126	62,378,241
Volt	Roosevelt	79,695	1,058,349	13.28	2,810,535	22,692,266
Wagon Box	Musselshell	126	1,591	12.63	32,379	575,263
Wakea	Sheridan	438,826	6,104,069	13.91	1,171,773	25,312,912
Weed Creek	Yellowstone	1,659	21,218	12.79	599,757	2,521,779
West Butte	Toole	5,346	83,557	15.63	280,093	2,811,414
Whitlash	Liberty, Toole	66,826	899,477	13.46	5,095,909	45,548,665
Whitlash, West	Toole	4,166	59,073	14.18	103,036	1,497,300
Willow Creek, North	Musselshell	2,514	35,447	14.10	311,156	2,921,125
Willow Ridge	Toole	2,551	36,275	14.22	39,760	970,402
Willow Ridge, South	Toole	52	702	13.50	3,188	100,721
Wills Creek, South	Fallon	24,219	344,151	14.21	1,030,367	8,123,381
Winnett Junction	Musselshell	39,250	520,062	13.25	808,970	15,086,589
Wolf Springs	Yellowstone	10,901	123,726	11.35	4,638,781	13,917,325
Wolf Springs, South	Yellowstone	268,524	3,544,516	13.20	616,408	12,815,360
Woodrow	Dawson	11,175	154,215	13.80	1,115,157	5,494,699
Wrangler	Sheridan	48,362	632,091	13.07	359,834	10,580,119
Wrangler, North	Sheridan	5,621	76,726	13.65	94,222	3,056,507
Wright Creek	Powder River	8,945	137,574	15.38	266,379	3,044,046
Yates	Wibaux	4,968	70,048	14.10	44,882	1,319,854
Wildcat	Dawson	184	2,484	13.50	1,489	42,127
Wildcat	Toole	570	9,866	17.31	36,379	128,683
Wildcat	Valley	447	6,034	13.50	447	6,034
Misc. Inactive Fields . . . . .	. . . . .	0	0	0.00	13,465,243	67,644,911
TOTALS . . . . .	. . . . .	27,164,630	367,322,590	13.52	1,226,452,559	9,180,766,576

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

MISCELLANEOUS INACTIVE FIELDS AS OF DECEMBER 31, 1986

FIELD	BARRELS	VALUE	FIELD	BARRELS	VALUE
Agawan	79	2,259	McCabe, South	6,599	208,261
Alkali Coulee	19,546	635,465	Midby	70,172	2,300,577
Andes	21,175	646,333	Otter Creek	28,492	959,881
Antelope, North	2,484	85,522	Pasture	2,869	90,868
Anvil, North	9,446	330,277	Pasture Creek	1,914	62,789
Autumn	35,546	1,125,986	Phantom	43,585	757,070
Bascom	27,830	65,674	Pine, East	19,349	233,378
Belfry	100,096	484,721	Plentywood	22,830	711,421
Big Wall, North	7,218	116,302	Pole Creek	169,726	277,956
Blackfoot, East	810	1,730	Poplar, Southeast	162,546	1,093,017
Boulder	156,754	2,530,800	Raymond, Northeast	120,687	1,721,719
Bredette	232,121	2,062,125	Richey, East	10,386	333,467
Bredette, North	488,554	1,160,009	Richey Area, West	11,062	403,670
Buffalo Lake	936	26,493	Rough Creek	3,599	10,583
Burget	6,504	228,647	Royals, South	3,082	101,400
Butchers Creek	579	20,259	Scobey	3,916	145,674
Bynum	5,971	15,320	Shotgun Creek, North	89,647	1,564,569
Cadmus	1,173	3,381	Smoke Creek	100,305	221,361
Canadian Coulee	1,150	27,573	Snoose Coulee	678	21,857
Clark Fork, North	1,024,608	2,895,208	Snowden	1,938	70,607
Clark Fork, South	80,553	634,021	Stampepe, North	4,566	136,865
Culbertson	175,652	1,134,101	Two Medicine Creek	10,249	370,951
Dugout Coulee	66,740	2,205,099	Vida	262,876	1,156,361
Dunkirk, North	19	498	Viking	160	1,957
Elk Basin, Northwest	1,217,696	5,337,118	Wagon Trail	43,321	1,297,560
Epworth	55,142	1,909,226	Weldon	7,050,531	20,454,760
Four Buttes	41,067	122,184	West Fork	6,671	229,773
Gage, Southwest	16,289	37,397	Wibaux	23,580	42,945
Gettysburg	304	11,987	Windmill	6,031	190,017
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
Hawk Haven	7,392	236,689	Wildcat, Daniels County	3,508	7,787
Homestead	303	8,726	Wildcat, Fallon County	10,683	29,485
Jack Creek	1,310	3,275	Wildcat, Garfield County	468	13,166
Kippen, East	150	4,815	Wildcat, Glacier County	48,231	124,918
Krug Creek	15,288	538,314	Wildcat, Hill County	405	8,831
Lake Basin	473,639	661,111	Wildcat, Liberty County	3,254	19,148
Lakeside	487	18,489	Wildcat, McCone County	12,575	41,467
Lambert, North	36,552	1,221,300	Wildcat, Musselshell County	925	1,841
Lariat	3,599	123,587	Wildcat, Powder River County	27,445	65,594
Laurel	1,017	36,458	Wildcat, Richland County	339,856	818,099
Ledger	275	7,948	Wildcat, Roosevelt County	86,968	259,956
Line Coulee	57,789	138,495	Wildcat, Sheridan County	52,561	571,834
Lisk Creek	1,939	70,297	Wildcat, Stillwater County	11,283	13,365
Lone Rider	5,903	194,397	Wildcat, Teton County	9,324	19,667
Lost Creek	1,534	42,905	Wildcat, Wibaux County	8,388	25,416
Malcolm Creek	11,450	353,129			
Mason Lake, North	17,923	442,087	TOTALS	13,465,243	67,644,911

1986 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
Big Horn-003								
Atlantic Richfield Co. 11-6S-36E 1-11 Little Bighorn	6	21186	Wildcat		11/29/85	7,450	0	0
Penwell, Lewis F. 23-1S-31E 1st Cont. 23-1	3	21187	Toluca		10/28/86	800	0	0
Penwell, Lewis F. 11-1S-31E 1st Cont. 11-2	3	21188	Toluca		10/28/86	1,020	0	0
Penwell, Lewis F. 11-1S-31E Ottun 11-1	3	21189	Toluca		10/29/86	1,394	0	0
Penwell, Lewis F. 12-1S-31E Ottun 12-2	3	21194	Toluca		10/29/86	1,020	0	0
Penwell, Lewis F. 17-1S-31E Dringman 17-1	3	21195	Toluca		10/28/86	1,570	0	0
Penwell, Lewis F. 7-1S-32E Kincaid 7-1	3	21196	Toluca		10/29/86	1,020	0	0
Blaine-005								
Brown, J. Burns Oper. Co. 14-32N-19E Holman 14-6	4	22382	Wildcat		11/29/86	3,934	0	0
Brown, J. Burns Oper. Co. 22-25N-19E Fed 22-25-19	3	22386	Sherard Unit		03/23/86	1,450	0	0
Brown, J. Burns Oper. Co. 14-26N-19E Fed 14-26-19	2	22387	Sherard Unit		04/02/86	1,860	0	0
Brown, J. Burns Oper. Co. 10-26N-17E Fed 10-26-17	5	22388	Chip Creek**		07/14/86	2,025	0	0
Brown, J. Burns Oper. Co. 34-26N-17E Hagan 34-26-17	3	22406	Sherard		08/27/86	1,825	0	0
Brown, J. Burns Oper. Co. 31-26N-18E Green 31-26-18	3	22409	Sherard Unit		08/29/86	2,083	0	0
Fuel Resources Dev. Co. 15-24N-18E Fed P-15-24-18N	2	22404	Leroy	Eagle	09/07/86	1,579	0	200
Fuel Resources Dev. Co. 23-24N-18E Fee D-23-24-18N	2	22405	Leroy	Eagle	09/08/86	1,641	0	140
LYTM Co., Inc. 31-33N-18E State 31-9	3	22389	Lohman		04/25/86	1,258	0	0
LYTM Co., Inc. 23-32N-19E Powell 23-7	3	22390	Bowes		04/23/86	1,004	0	0
LYTM Co., Inc. 21-34N-20E Baylis 13-21	6	22419	Wildcat		11/21/86	4,260	0	0
Montana Power Co. 34-27N-17E Hendersen 4-34	3	22376	Bullwacker		10/23/85	2,665	0	0
Montana Power Co. 8-31N-19E Fee 13-8	2	22378	Bowes		01/23/86	1,361	0	0
Montana Power Co. 17-27N-19E McLeish 10-17	2	22398	Sawtooth Mtn & Area	Eagle	07/28/86	1,794	0	900
Montana Power Co. 4-27N-19E Campbell 9-4	2	22399	Sawtooth Mtn & Area	Eagle	07/23/86	1,812	0	1,400
Montana Power Co. 8-27N-19E Campbell 15-8	3	22400	Sawtooth Mtn & Area		06/25/86	2,041	0	0
Montana Power Co. 6-27N-19E Dunbar 1-6	2	22401	Sawtooth Mtn & Area	Eagle	07/24/86	2,038	0	140
Montana Power Co. 9-27N-19E Campbell 2-9	2	22402	Sawtooth Mtn & Area	Eagle	10/14/86	1,842	0	200
Montana Power Co. 18-27N-19E McLeish 14-18	2	22403	Sawtooth Mtn & Area	Judith River	06/28/86	2,012	0	200
Tricentrol U.S., Inc. 28-31N-18E Ramberg 28-10	3	22379	Tiger Ridge		01/26/86	4,070	0	0
Tricentrol U.S., Inc. 23-32N-18E Miewald 23-4	5	22383	Tiger Ridge **		02/03/86	1,400	0	2,200
Tricentrol U.S., Inc. 8-31N-19E Sorensen 8-1	3	22384	Bowes		02/01/86	1,305	0	0
Tricentrol U.S., Inc. 4-31N-18E Williamson 4-3	2	22391	Tiger Ridge	Eagle	06/25/86	1,608	0	1,800
Tricentrol U.S., Inc. 20-31N-18E Vercruyssen 20-4	3	22392	Tiger Ridge		06/22/86	1,575	0	0
Tricentrol U.S., Inc. 20-31N-18E Monson 20-9	2	22393	Tiger Ridge	Eagle	06/20/86	1,425	0	955
Tricentrol U.S., Inc. 23-31N-18E Roberts 23-3	2	22394	Tiger Ridge	Eagle	06/18/86	1,600	0	1,150
Tricentrol U.S., Inc. 5-30N-18E Blackwood 5-15	2	22395	Tiger Ridge	Eagle	07/02/86	1,450	0	1,300
Tricentrol U.S., Inc. 3-30N-17E Blackwood 3-16	2	22396	Tiger Ridge	Eagle	07/05/86	1,683	0	380
Tricentrol U.S., Inc. 8-30N-18E Blackwood 8-13	2	22397	Tiger Ridge	Eagle	06/30/86	1,600	0	215
Tricentrol U.S., Inc. 19-31N-19E Roberts 19-1	3	22406	Tiger Ridge		10/18/86	1,400	0	0
Tricentrol U.S., Inc. 8-30N-19E S-B 8-9	3	22407	Tiger Ridge		10/15/86	1,100	0	0
Tricentrol U.S., Inc. 13-31N-18E Benson 12-13	3	22410	Tiger Ridge		10/20/86	1,350	0	0
Xeno, Inc. 22-36N-19E Fed 13-22	2	22412	Battle Creek	Eagle	12/03/86	1,790	0	242
Xeno, Inc. 3-35N-19E Fed 3-3	2	22413	Battle Creek	Eagle	10/24/86	1,764	0	276
Xeno, Inc. 33-36N-19E Fed 3-33	2	22415	Battle Creek	Eagle	11/01/86	1,740	0	412
Xeno, Inc. 29-36N-19E Unruh 15-29	2	22416	Battle Creek	Eagle	11/07/86	1,756	0	492
Xeno, Inc. 2-35N-19E Fed 13-2	2	22417	Battle Creek	Eagle	12/10/86	1,790	0	530
Xeno, Inc. 28-36N-19E Fed 7-28	2	22418	Battle Creek	Eagle	12/03/86	1,760	0	431
Carbon—009								
Amoco Production Co. 35-9S-23E Elk Basin Madison 346	1	21204	Elk Basin	Madison	02/27/86	5,500	745	0
Balcon Oil Co. 10-8S-24E Fed 1-10	6	21206	Wildcat		03/12/86	2,358	0	0
Basso, Lindberg, Westwood, Wol 18-6S-59E Sam McDowell 1-18	6	21209	Wildcat		07/21/86	551	0	0
Conoco Inc. 32-8S-24E Fed 32-1	6	21212	Wildcat		12/23/86	5,440	0	0
Luff Expl. Co. 10-7S-21E Souders 8-10	2	21208	Dry Creek	Eagle, Virgelle	06/26/86	2,680	0	491
Montana Power Co., 3-7S-21E BN 8-3	2	21186	Dry Creek	Frontier	09/15/83	11,235	0	6,000
Montana Power Co., 15-6S-22E Rapp 1-15	6	21190	Wildcat		12/19/83	5,345	0	0
Montana Power Co., 21-6S-21E Robinson 16-21	6	21192	Wildcat		07/09/84	8,330	0	0
Montana Power Co., 11-7S-22E Merrill 8-11	2	21207	Golden Dome	Greybull	04/09/86	5,615	0	100
Murphy, Nelvel E. 14-7S-23E Schwend 1	6	21118	Wildcat		04/02/82	1,010	0	0
Murphy, Nelvel E. 24-6S-23E Grabowski 3	6	21166	Wildcat		04/10/86	250	0	0
Murphy, Nelvel E. 24-6S-23E Grabowski 4	6	21181	Wildcat		04/10/86	205	0	0
Quadra Oil & Gas, Inc. 5-7S-21E BN 5-1	2	21205	Dry Creek	Frontier	06/12/86	6,705	0	4,380

1986 WELL COMPLETIONS (CONTINUED)

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL Oil B/D	POTENTIAL Gas MCF/D
Carter—011								
Cenex 12-6S-55E Draine 12-12	6	21335	Wildcat		08/04/86	4,353	0	0
Davis Oil Co., 22-9S-55E Ridge Fed 1	6	21334	Wildcat		02/19/86	3,600	0	0
Chouteau—015								
Brown, J. Burns Oper. Co. 30-26N-17E Olson 30-26-17	5	21631	Sherard**		01/04/86	1,578	0	0
Brown, J. Burns Oper. Co. 4-26N-17E Norden 4-26-17	6	21632	Wildcat		04/12/86	2,000	0	0
Exxon Corp. 17-25N-3E Pugh Rossmiller 17-1	8	21641	Wildcat		08/17/86	1,839	0	0
Exxon Corp. 5-25N-3E Herman Maurer 1	4	21720	Wildcat		08/24/86	4,922	0	0
Louisiana Land and Expl. 2-29N-12E Fed 14-2	6	21630	Wildcat		12/21/85	5,168	0	0
Montana Power Co., 32-27N-16E Weaver 1-32	2	21600	Bullwacker	Eagle	01/15/86	2,440	0	200
Montana Power Co., 25-27N-16E Weaver 4-25	2	21633	Bullwacker	Eagle	06/10/86	4,670	0	6,000
Montana Power Co., 22-27N-14E State 4-22	5	21634	Little Creek	Eagle	08/27/86	2,330	0	75
Montana Power Co., 21-27N-14E State 1-21	6	21635	Wildcat		06/16/86	2,575	0	0
Thompson, Inc., Richard W. 16-26N-7E State 1	6	21636	Wildcat		07/16/86	4,046	0	0
Walls, Adrian G. 19-27N-3E Walls-Killion 1-19	6	21627	Wildcat		12/07/85	1,113	0	0
Walls, Adrian G. 21-27N-3E Woods 2-21	3	21628	Hardpan		12/09/85	855	0	0
Walls, Adrian G. 22-27N-3E Hollandsworth 2-22	6	21643	Wildcat		11/22/86	851	0	0
Walls, Adrian G. 18-27N-3E Mauer 1-18	6	21645	Wildcat		12/20/86	1,114	0	0
Daniels—019								
Exxon Corp. 8-36N-43E Galway State 1	6	21083	Wildcat		06/11/86	6,985	0	0
Hughes Texas Petroleum, Ltd. 17-35N-48E Ruth Matson 1-A	6	21081	Wildcat		05/05/86	7,926	0	0
Williams, Clayton W., Jr. 16-33N-44E Good Brothers 4-16 1	6	21082	Wildcat		04/19/86	7,675	0	0
Dawson—021								
BWAB Inc. and Tom Brown 25-15N-54E BN 25-12	3	21109	Glendive		04/08/86	9,410	0	0
Hunt, Lamar 23-20N-56E Robin Scully 1	3	21107	Burns Creek		01/28/86	10,335	0	0
Robinson Resource Dev. 2-19N-53E Walker 44-2	1	21108	Bloomfield	Red River	07/01/86	11,270	105	22
Robinson Resource Dev. 1-19N-53E Whitmer 22-1	3	21110	Bloomfield		05/25/86	11,200	0	0
Fallon—025								
BOG, Inc. 6-4N-61E Johnson 1-6	5	21410	Cedar Creek**	Eagle	10/22/86	1,827	0	39
Cenergy Expl. Co., 3-8N-59E USA 42-3	1	21398	Pennel	Red River	02/24/86	9,192	28	24
Cenergy Expl. Co., 31-11N-58E BN SWD 1	8	21402	Cabin Creek (Unit 1)	Dakota	01/05/86	5,000	0	0
Meridian Oil, Inc. 35-9S-58E BN 43-35	1	21403	Monarch	Red River	01/17/86	8,860	75	10
Meridian Oil, Inc. 35-7N-60E BN 43-35	1	21404	Lookout Butte Area	Red River	02/28/86	9,034	61	14
Meridian Oil, Inc. 35-7N-60E BN 11-35	1	21405	Lookout Butte Area	Red River	02/12/86	9,000	61	10
Meridian Oil, Inc. 34-7N-60E Hamilton 42-34	1	21406	Lookout Butte East	Red River	03/25/86	8,968	58	0
Shell Western E&P Inc. 31-8N-60E Unit 33-31CR	1	21409	Pennel	Red River Stoney Mtn	06/24/86	8,954	117	36
Williston Basin Interstate 5-6N-60E BN 430	8	21301	Cedar Creek		01/09/86	1,175	0	0
Williston Basin Interstate 23-6N-60E BN 437	8	21308	Cedar Creek		01/14/86	1,090	0	0
Fergus—027								
Bass Expl. and Prod. 7-13N-24E Ahlgren 1-7A	6	21215	Wildcat		11/01/85	801	0	0
Bass Expl. and Prod. 7-13N-24E Ahlgren 1-7	6	21216	Wildcat		10/12/85	744	0	0
Elenburg Expl., Inc. 36-18N-22E State 44-36	6	21204	Wildcat		01/01/84	2,235	0	0
Sutlime Oil Co., 23-14N-24E Gjerde 1	7	21217	Wildcat		01/02/86	900	0	0
Garfield—033								
Phillips Petroleum Co., 17-13N-34E Felix A 1-17	6	21131	Wildcat		01/10/86	4,515	0	0
Phillips Petroleum Co., 19-13N-34E Beanblossom "A" 4-19	3	21132	Beanblossom		10/25/86	4,588	0	0
Glacier—035								
Atlantic Richfield Co., 14-33N-9W ARCO E. Kipps Lake 1-4	6	21757	Wildcat		05/01/86	5,746	0	0
Atlantic Richfield Co., 34-30N-8W ARCO Blacktail Crk 1-34	6	21758	Wildcat		08/22/86	4,854	0	0
Atlantic Richfield Co., 6-33N-7W Fee 1-6	6	21759	Wildcat		08/20/86	2,355	0	0
Atlantic Richfield Co., 6-33N-7W S. Cut Bank Creek 1X-6	6	21760	Wildcat		09/12/86	5,901	0	0
Beren Corp. 19-37N-8W Blackfeet 3	1	21700	Landslide Butte	Madison	07/19/86	4,848	18	0
Beren Corp. 29-37N-8W Blackfeet A 7	1	21705	Landslide Butte	Madison	10/15/84	4,911	36	0
Berenergy Corp. 30-37N-8W Tribal A 30-2	1	21632	Landslide Butte	Madison	11/30/83	4,900	43	0
Berenergy Corp. 30-37N-8W Tribal A 30-5	1	21702	Landslide Butte	Madison	08/24/84	4,882	20	0

1986 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
Chevron U.S.A. Inc. 7-35N-14W Blackfeet 1-7	6	21750	Wildcat		03/30/86	10,542	0	0
Bluejay Resources, Inc. 12-34N-5W Dahlquist Unit 11	1	21762	Cut Bank	Cut Bank	10/23/86	2,423	3	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 7	1	21638	Cut Bank	Cut Bank	08/20/83	2,555	12	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 5	1	21639	Cut Bank	Cut Bank	08/28/83	2,645	12	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 6	1	21641	Cut Bank	Cut Bank	09/04/83	2,645	13	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 8	1	21642	Cut Bank	Cut Bank	09/11/83	2,578	11	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 9	1	21644	Cut Bank	Cut Bank	09/17/83	2,560	13	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 10	1	21645	Cut Bank	Cut Bank	09/24/83	2,540	14	0
Gypsy Highview Gathering Sys 23-37N-5W Marie Kruger 11	1	21646	Cut Bank	Cut Bank	10/01/83	2,580	15	0
Gypsy Highview Gathering Sys 3-37N-5W Ralph Swensen 3-4	1	21672	Graben Coulee	Cut Bank	02/25/84	2,830	13	0
Gypsy Highview Gathering Sys 7-37N-5W Weiss 1	1	21717	Blackfoot, East	Cut Bank	06/20/85	3,395	28	0
Gypsy Highview Gathering Sys 7-37N-5W Weiss 7-2	1	21720	Blackfoot, East	Cut Bank	01/14/85	3,405	5	0
Gypsy Highview Gathering Sys 26-37N-5W Lundgren 26-1	2	21727	Cut Bank	Madison	03/23/85	2,791	0	1,694
Gypsy Highview Gathering Sys 26-37N-5W Lundgren 26-4	2	21728	Cut Bank	Cut Bank	03/31/86	2,740	0	594
Gypsy Highview Gathering Sys 26-37N-5W Lundgren 26-8	1	21729	Cut Bank	Cut Bank	04/07/85	2,765	15	0
Gypsy Highview Gathering Sys 11-37N-5W Thompson 9	1	21747	Graben Coulee	Cut Bank	10/20/85	2,660	12	0
Gypsy Highview Gathering Sys 11-37N-5W Thompson 10	1	21748	Graben Coulee	Cut Bank	10/30/85	2,725	15	0
Gypsy Highview Gathering Sys 11-37N-5W Thompson 11	1	21749	Graben Coulee	Cut Bank	11/06/85	2,710	11	0
Montana Power Co., 21-35N-5W Peterson 11-21	2	21754	Cut Bank	Cut Bank	06/24/86	2,705	0	315
Montana Power Co., 32-35N-5W Schuette 9-32	2	21755	Cut Bank	Cut Bank	06/30/86	2,753	0	130
Montana Power Co., 24-34N-5W Delaney 2-24	2	21756	Cut Bank	Cut Bank	06/26/86	2,580	0	340
Montana Power Co., 33-34N-5W Coburn Unit 11-33	2	21763	Cut Bank	Cut Bank	10/22/86	2,730	0	168
Monte Grande Expl., Inc. 10-37N-5W Ralph Swensen 27	1	21666	Graben Coulee	Cut Bank	06/19/85	2,750	11	0
Monte Grande Expl., Inc. 10-37N-5W Ralph Swensen 28	1	21667	Graben Coulee	Cut Bank	07/23/85	2,730	8	0
Monte Grande Expl., Inc. 10-37N-5W Ralph Swensen 26	1	21668	Graben Coulee	Cut Bank	07/16/85	2,735	12	0
Mountain States Resources, Inc 3-37N-5W Exxon/McAlpine 18	3	21725	Graben Coulee		11/16/85	2,820	0	0
Rimrock Drilling Co., 1-36N-6W Anderson 1	3	21761	Cut Bank		10/18/86	3,221	0	0
Hill—041								
Brown, J. Burns Oper. Co. 11-33N-16E State 11-33-16B	6	22343	Wildcat		05/03/86	1,520	0	0
Elenburg Expl., Inc. 29-32N-17E Davey 3-29	3	22333	Tiger Ridge		07/29/85	1,500	0	0
Elenburg Expl., Inc. 31-32N-17E Davey 16-31	3	22334	Tiger Ridge		07/28/85	1,420	0	0
Lorne Resources, Inc. 2-31N-13E Dees 11-2	3	22347	Laredo		01/15/86	1,278	0	0
Lorne Resources, Inc. 7-31N-13E Vosen 16-1	3	22350	Laredo		05/29/86	1,005	0	0
Louisiana Land and Expl. 2-30N-9E Anderson 12-2	6	22339	Wildcat		11/10/85	5,303	0	0
LYTM Co., Inc. 35-33N-15E Edwards 35-33-15	6	22340	Wildcat		11/02/85	1,208	0	0
LYTM Co., Inc. 36-33N-14E Klaus 36-33-14B	5	22344	Badlands **	Eagle	07/30/86	1,133	0	76
LYTM Co., Inc. 33-34N-13E Donovan 33-8	6	22351	Wildcat		06/04/86	1,294	0	0
LYTM Co., Inc. 19-33N-15E 1st Trust 19-33-15	6	22352	Wildcat		04/29/86	1,452	0	0
LYTM Co., Inc. 31-34N-17E Paulsen 31-34-17	5	22353	Red Rock **	Eagle	05/21/86	1,355	0	20
Montana Power Co., 17-32N-15E Sands 6-17	2	22335	Tiger Ridge	Eagle	01/22/86	1,299	0	0
Montana Power Co., 16-32N-15E State 6-16	2	22336	Tiger Ridge	Eagle	01/22/86	1,298	0	0
Montana Power Co., 21-32N-15E Marra 11-21	2	22337	Tiger Ridge	Eagle	01/22/86	1,270	0	0
Montana Power Co., 15-32N-15E City of Havre 2-15	2	22338	Tiger Ridge	Eagle	01/21/86	1,270	0	0
Montana Power Co., 14-33N-11E Murr-LaCasse 9-14	6	22345	Wildcat		01/22/86	3,830	0	0
Montana Power Co., 22-32N-15E Brown 11-22	2	22355	Tiger Ridge	Eagle	08/21/86	1,318	0	250
Montana Power Co., 18-32N-15E Sands 16-18	2	22356	Tiger Ridge	Eagle	08/19/86	1,224	0	75
Montana Power Co., 16-32N-15E State 2-16	3	22357	Tiger Ridge		07/09/86	1,323	0	0
Tricentrol U.S., Inc. 22-32N-17E Hanson 22-3	3	22348	Tiger Ridge		02/05/86	1,450	0	0
Tricentrol U.S., Inc. 27-31N-16E Taulges 27-6	3	22349	Tiger Ridge		02/12/86	1,549	0	0
Tricentrol U.S., Inc. 34-31N-17E Olson 34-1	2	22354	Tiger Ridge	Eagle	07/07/86	1,550	0	360
Western Natural Gas Co., 4-30N-17E Olson 4-30	3	22359	Tiger Ridge		11/01/86	1,714	0	0
Liberty—051								
McCarthy, Lawrence J. 24-36N-5E Cicon Ranches 1-24	6	21661	Wildcat		10/15/86	1,417	0	0
Musselshell—065								
Beartooth Oil & Gas Co., 7-11N-25E Harbour 1	6	21732	Wildcat		07/10/85	2,440	0	0
CSX Oil & Gas Corp. 26-10N-28E Goffena 34-26	6	21753	Wildcat		11/23/86	4,700	0	0
Cenex 29-11N-26E Fed 1-29	6	21741	Wildcat		01/18/86	3,936	0	0
Dabros Properties, Inc. 24-10N-26E Lemmon 1	3	21754	Big Wall		11/23/86	3,090	0	0
BHP Petroleum (Americas) Inc. 7-11N-25E Harbour 16-7	6	21744	Wildcat		04/14/86	2,561	0	0

1986 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
BHP Petroleum (Americas) Inc. 5-11N-30E Manion 14-5	3	21745	Ragged Point		06/06/86	3,488	0	0
Petro-Lewis Corp. 18-11N-30E Howell 8-18	3	21717	Ragged Point, SW		02/25/85	4,051	0	0
Union Texas Expl. Corp. 3-10N-27E BN 3-9I	7	21693	Little Wall S U Area		09/01/84	3,887	0	0
Union Texas Expl. Corp. 3-10N-27E BN 3-8R	7	21694	Little Wall S U		07/09/84	2,925	0	0
Valero Producing Co., 20-10N-30E Valero Brewer 44-20 1	6	21718	Wildcat		01/25/86	5,120	0	0
Valero Producing Co., 9-10N-28E Goffena 31-9 1	4	21750	Willow Creek, N**	Tyler	09/26/86	4,200	18	0
Petroleum—069								
Champlin Petroleum Co., 21-13N-28E Cat Creek 1	1	21138	Rattlesnake Butte	Cat Creek 1	01/14/86	2,525	6	86
Douglas Petroleum, Inc. 15-16N-28E Wm. E. Bridger 1	6	21139	Wildcat		02/16/86	6,958	0	0
Pondera—073								
Balcon Oil Co., 28-30N-1W Vandepopelier 3-28	2	21710	Ledger	Bow Island	08/27/86	839	0	355
Balcon Oil Co., 17-29N-1W McCracken A 14A-17	2	21711	Ledger	Bow Island	08/14/86	802	0	320
Balcon Oil Co., 16-29N-1W State E 2E-16	3	21712	Ledger		08/18/86	627	0	0
Balcon Oil Co., 9-29N-2W D. Keil 2-9	2	21713	Ledger	Bow Island	09/03/86	937	0	108
Balcon Oil Co., 10-29N-1W Iverson Ranch 8-10	2	21714	Ledger	Bow Island	10/13/86	1,297	0	90
Balcon Oil Co., 15-29N-1W D. Iverson 2-15	3	21715	Ledger		08/19/86	712	0	0
Balcon Oil Co., 15-29N-2W Young 1-15	2	21716	Ledger	Bow Island	08/28/86	868	0	40
Balcon Oil Co., 8-29N-1W McCracken A 15A-8	3	21717	Ledger	Bow Island	08/22/86	977	0	108
Balcon Oil Co., 5-29N-1W Tweet 4-5	2	21718	Ledger	Bow Island	08/26/86	850	0	195
Balcon Oil Co., 18-29N-1W McCracken A 13A-18	2	21719	Ledger	Bow Island	08/15/86	719	0	93
Campanella, George L. 6-27N-4W Mancoronel 85-4	1	21708	Pondera	Madison	02/03/86	2,136	10	0
Campanella, George L. 15-27N-3W State 1	6	21720	Wildcat		12/08/86	2,050	0	0
Hawley Hydrocarbons 11-27N-4W Joe Erickson 1	1	21704	Pondera	Madison	04/21/86	1,894	8	0
TXO Production Corp. 29-28N-6W Den Boer 1	6	21707	Wildcat		04/16/86	3,400	0	0
TXO Production Corp. 13-27N-4W Erickson 1	3	21721	Pondera		12/16/86	1,932	0	0
Walls, Adrian G. 33-28N-2W Anderson-Lahr 15B	6	21699	Wildcat		10/22/86	2,107	0	0
Powder River—075								
Anschutz Corp., The 19-8S-49E Three Bear Fed 13-19	6	22140	Wildcat		05/16/85	8,540	0	0
Genex 33-9S-51E Mader 1-33	6	22195	Clark's Fork, South		08/31/86	7,941	0	0
Conoco Inc. 36-6S-51E Fed 36 1	6	22200	Wildcat		12/28/86	7,270	0	0
Davis Oil Co., 35-6S-47E Custer Fed 1	6	22176	Wildcat		02/12/86	7,250	0	0
Davis Oil Co., 8-9S-45E Fee Greybeard 1	6	22178	Wildcat		01/15/86	7,320	0	0
Hamon Oper. Co., 9-8S-53E Anderson Fed A 21-9	1	22117	Wright Creek	Muddy	11/16/85	6,725	21	0
Roundup Resources, Inc. 35-8S-51E Fed L35-12	3	22150	Leary		06/14/85	5,731	0	0
Smokey Oil Co., 8-9S-47E Sprinkle Fed 21-8	6	22185	Wildcat		01/12/86	9,575	0	0
Smokey Oil Co., 9-7S-52E Hildre Fed 44-9	6	22186	Wildcat		01/18/86	7,040	0	0
Smokey Oil Co., 24-8S-52E Gilmore Fed 13-24	6	22187	Wildcat		01/07/86	6,880	0	0
Smokey Oil Co., 29-8S-50E Rea Fed 22-29	6	22188	Wildcat		01/11/86	8,300	0	0
Smokey Oil Co., 26-9S-49E Richey Fed 24-26	6	22189	Wildcat		03/01/86	8,568	0	0
Smokey Oil Co., 15-9S-49E Alker Fed 23-15	6	22190	Wildcat		02/11/86	8,420	0	0
Smokey Oil Co., 24-8S-48E Lovely Fed 14-24	6	22191	Wildcat		03/01/86	8,415	0	0
Smokey Oil Co., 27-8S-48E Lovely Fed 44-27	6	22192	Wildcat		02/14/86	8,540	0	0
Smokey Oil Co., 31-9S-51E Cone Fed 43-31	6	22194	Wildcat		04/05/86	8,130	0	0
True Oil Co., 30-5S-50E Spear Fed 13-30	6	22159	Wildcat		10/12/85	7,567	0	0
True Oil Co., 11-9S-50E Magruder 12-11	6	22160	Wildcat		11/20/85	8,382	0	0
True Oil Co., 19-7S-48E Shields Fed 21-19	6	22172	Wildcat		10/10/85	8,940	0	0
True Oil Co., 21-9S-50E Darr Fed 44-21	6	22173	Wildcat		11/06/85	8,415	0	0
True Oil Co., 16-8S-52E Oxy-State 42-16	6	22174	Wildcat		10/29/85	7,125	0	0
True Oil Co., 7-9S-48E Sams Ranch 44-7	6	22175	Wildcat		10/31/85	8,550	0	0
True Oil Co., 24-7S-51E Andrews 23-24	6	22177	Wildcat		11/17/85	7,652	0	0
True Oil Co., 29-6S-52F Nash 31-29	6	22181	Wildcat		12/03/85	6,975	0	0
True Oil Co., 24-6S-50E Fredrickson 22-24	6	22182	Wildcat		12/27/85	7,510	0	0
True Oil Co., 26-7S-50E Considine 13-26	6	22183	Wildcat		12/10/85	7,798	0	0
True Oil Co., 33-7S-52E Lauer Fed 12-33	6	22184	Wildcat		12/20/85	7,075	0	0
Richland—083								
ANR Production Co., 36-23N-59E State 2-36	1	21747	Mondak, West	Stoney Mtn	08/30/86	12,480	93	54
ANR Production Co., 2-21N-58E Bakken-Larson 23-2	1	21751	Crane	Red River	12/10/86	12,100	1,440	936
Anadarko Petroleum Corp. 29-23N-57E Thomas A 1	1	21343	Putnam	Interlake	10/09/86	12,121	302	189

1986 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
Brown, Tom, Inc. 32-25N-57E Labonte 32-23	3	21748	Lonetree Creek		01/29/86	12,605	0	0
Cenex 8-23N-58E Sunwall 3-8	1	21705	Brorson	Bakken	04/25/86	12,540	25	0
Cenex 17-23N-58E Sorensen 8-17	4	21746	Vaux *	Bakken	04/03/86	12,720	88	60
Diversified Resources Ltd. 30-22N-58E Buxbaum 1-30	1	21264	Fox Creek, North	Madison	03/21/86	9,188	19	0
Ladd Petroleum Corp. 9-21N-59E Albert 9-11	3	21737	Gossett		03/17/85	12,320	0	0
Ladd Petroleum Corp. 22-25N-58E Anvik 1	6	21738	Wildcat		04/01/85	12,785	0	0
Ladd Petroleum Corp. 15-22N-58E O'Brien 1	6	21740	Wildcat		06/03/85	12,450	0	0
Slawson, Donald C., Oil Prod. 2-24N-55E Boles 1-2	6	21749	Wildcat		02/19/86	12,050	0	0
Roosevelt—085								
Amerada Hess Corp. 1-31N-54E Wessner 1-41	1	21503	Lobo ***	Red River	01/10/86	11,410	620	549
Fina Oil and Chemical Co., 23-29N-50E McGowan 23-1	3	21504	Poplar, Northwest		07/01/85	7,784	0	0
Diamond Shamrock Corp. 18-30N-59E Crusch Two Fee 14-18	1	21518	Anvil	Red River	03/18/86	12,630	312	500
BHP Petroleum (Americas) 14-30N-48E Brown 5-14	3	21527	Tule Creek, East		04/10/86	7,900	0	0
BHP Petroleum (Americas) 9-30N-48E Anderson 1st Trust 8-9	6	21529	Wildcat		05/02/86	7,911	0	0
Ladd Petroleum Corp. 21-28N-46E Standing Heirs 1	6	21499	Wildcat		04/22/85	7,330	0	0
Ladd Petroleum Corp. 21-30N-59E Ronning 23-21	1	21510	Anvil	Ratcliffe	02/18/86	10,778	62	52
Meridian Oil, Inc. 2-30N-47E Hauge 11-2	6	21523	Wildcat		01/12/86	7,750	0	0
Murphy Oil USA, Inc. 11-29N-50E War Club 1-R	1	21482	Poplar, Northwest	Madison	11/16/84	6,055	20	0
Murphy Oil USA, Inc. 27-31N-48E Hawbaker 1	4	21524	Wildcat	Nisku	02/04/86	7,865	13	0
Nance Petroleum Corp. 19-30N-59E Picard 12-19	3	21506	Anvil		10/31/85	12,640	0	0
Panther Oil Properties, Inc. 20-29N-50E Panther 20-2-9	3	21522	Poplar, NW Area		04/09/86	1,146	0	0
Pintail Petroleum Inc. 1-30N-47E Bach 1	6	21505	Wildcat		07/12/85	7,672	0	0
Sinclair Oil Corp. 6-29N-48E Red Eagle 3-6	6	21501	Wildcat		06/06/85	7,720	0	0
Slawson, Donald C. 17-27N-58E Harmon Farms 2-17	6	21517	Wildcat		04/29/86	10,996	0	0
Sun Expl. and Prod. 27-28N-58E Bainville Unit B 2	1	21516	Bainville	Red River	02/18/86	12,540	58	35
True Oil Co., 20-28N-56E Consolidated State SWDW 1	7	21515	Diamond Point	Dakota	02/14/86	5,260	0	0
Rosebud—087								
Barrett Energy Co., 16-9N-32E State 1-16	6	21585	Wildcat		03/03/86	6,564	0	0
Champlin Petroleum Co., 11-11N-32E BN 41-11 1	3	21584	Ace High		02/08/86	5,900	0	0
Conoco Inc. 25-12N-32E Raymond 25-9	3	21586	Rattler Butte		05/10/86	5,530	0	0
Huckabay, E. Doyle Ltd. 29-12N-32E Kincheloe 2-29	6	21592	Wildcat		08/01/86	5,425	0	0
Huckabay, E. Doyle Ltd. 35-12N-31E Ross 1-35	6	21593	Wildcat		09/13/86	5,330	0	0
Huckabay, E. Doyle Ltd. 25-12N-31E Kincheloe 1-25	6	21594	Wildcat		11/01/86	5,401	0	0
North American Resources Comp. 34-12N-32E Grebe 10-34	6	21553	Wildcat		06/21/84	5,440	0	0
Phillips Petroleum Co. 3-11N-32E Malacca A 1-3	6	21590	Wildcat		06/09/86	5,753	0	0
Texaco Inc., a Delaware Corp. 13-11N-32E Nestsu B413X	1	21589	Sumatra	Tyler	05/28/86	4,878	41	0
Texas Gas Expl. Corp. 1-11N-32E Coffee 27-1	4	21577	Ace High ***	Tyler	01/29/86	6,000	30	0
Tuck, L. L. 23-11N-31E Stensvad 2	6	21591	Wildcat		11/21/86	4,548	0	0
Valero Producing Co., 14-9N-33E Valero Hendrix 14-14 1	6	21580	Wildcat		01/02/86	5,450	0	0
Sheridan—091								
Amerada Hess Corp. 15-37N-53E Hass 15-34	6	21554	Wildcat		09/09/85	10,240	0	0
Amerada Hess Corp. 36-32N-54E Fed 36-44	1	21597	Lobo	Siluro-Ord	06/01/86	11,970	245	25
Brown, Tom, Inc. 23-33N-58E Jensen 23-41	6	21559	Wildcat		10/19/84	11,532	0	0
Conoco Inc. 22-35N-56E Wang 22 1	6	21595	Wildcat		12/14/85	11,000	0	0
HGO Petroleum Co., 4-35N-57E SI Monson et al 1-4	6	21593	Wildcat		10/14/85	7,290	0	0
Hunt, Wm. Herbert Trust 14-32N-57E Addie Grandlund 1	1	21604	Katy Lake, North	Madison	11/30/86	8,004	195	178
Meridian Oil, Inc. 19-36N-54E Wagnild 44-19	4	21601	Pipeline ***	Red River	05/05/86	10,300	63	19
Mosbacher Production Co. 5-33N-56E Robt. Eidsness 1	6	21260	Wildcat		07/22/79	11,230	0	0
Nance Petroleum Corp. 2-32N-57E Olsen 16-2	1	21579	Katy Lake, North	Mission Canyon	03/28/86	11,520	69	0
Pitman Production Co. 19-35N-58E Dahlgard 1-19	1	21592	Goose Lake	Ratcliffe	01/22/86	7,390	10	6
Slawson, Donald C., Oil Prod. 29-32N-58E Brethren 1-29	1	21598	KatyLake	Red River	02/26/86	11,650	570	103
Sun Expl. and Prod. 6-33N-57E E. Sunsted 2	1	21591	Olje	Madison	02/10/86	7,867	18	6
Sun Expl. and Prod. 31-33N-56E Harty 1-31	4	21602	Reserve, South ***	Red River	04/21/86	11,280	120	86
Westar Drilling Ventures, Inc. 13-32N-57E Fed 1-13	1	21599	Katy Lake, North	Madison	03/29/86	7,920	251	158
Westar Drilling Ventures, Inc. 14-32N-57E Fed 1-14	1	21600	Katy Lake, North	Madison	04/11/86	11,465	161	159
Xplor Energy Corp. 14-36N-57E Rice 43-14	3	21533	Comertown		02/12/84	6,900	0	0
Xplor Energy Corp. 25-36N-57E Reed 41-25	8	21541	Comertown		03/17/84	6,948	0	0
Xplor Energy Corp. 26-36N-52E Loucks McKee 31-26	6	21572	Wildcat		03/09/85	9,360	0	0
Xplor Energy Corp. 12-32N-56E NW National Life 31-12	6	21573	Wildcat		04/10/85	11,550	0	0

1986 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
Stillwater—095								
Energy Rock Inc. 24-3N-21E State 13-24	6	21205	Wildcat		09/30/85	1,280	0	0
Energy Rock Inc. 25-3N-21E Bradbrook 4-25	6	21206	Wildcat		08/15/85	1,509	0	0
Energy Rock Inc. 34-1N-21E Lutgen 1-34	2	21211	Lake Basin	Eagle, Clagett Virgelle	06/23/86	1,510	0	80
Gary-Williams Oil Prod. Inc. 20-5S-17E O'Brien Fed 20-1	1	21191	Dean Dome	Greybull	09/01/84	3,180	25	0
Mountain States Resources, Inc 7-1S-18E Stevens 7-1	6	21159	Wildcat		10/01/80	4,200	0	0
Sweet Grass—097								
Mountain States Resources, Inc 9-2S-17E Herbert Bue 9-12	6	21031	Wildcat		09/15/80	5,250	0	0
Teton—099								
Aikins Drilling Co., 23-27N-4W Gustofson 1	3	21256	Pondera		03/07/86	2,038	0	0
Aikins Drilling Co., 21-27N-4W Jones 1	1	21265	Pondera	Madison	06/11/86	2,134	5	0
General Well Service, Inc. 2-21N-5W Austod 10D-2	6	21250	Wildcat		11/30/84	3,690	0	0
Gypsy Highview Gathering Sys 3-27N-6W State 3-2	1	21243	Highview	Madison	11/19/84	3,400	5	0
Gypsy Highview Gathering Sys 22-27N-4W Ed Jones 2	1	21258	Pondera	Madison	01/13/86	2,110	6	0
Mobil Expl. and Prod. 5-25N-8W Blackleaf Canyon Fed 5-1	6	21220	Wildcat		08/24/85	5,096	0	0
Toole—101								
Adobe Resources Corp. 7-31N-3E Highway 41-7	3	23041	Galata		02/25/86	843	0	0
Adobe Resources Corp. 18-31N-3E Flage-Smith 44-18	2	23042	Galata		04/16/86	850	0	275
Adobe Resources Corp. 15-30N-2E I & F Peterson 31-15	5	23043	Tiber, East **	Bow Island	03/24/86	790	0	33
Bacon, J. R. Drilling, Inc. 27-35N-3W M-50748 8-27	1	22674	Kevin Sunburst	Madison	08/01/86	1,752	12	0
Bacon, J. R. Drilling, Inc. 27-35N-2W Lashbough 4X	1	23040	Kevin Sunburst	Madison	09/04/86	1,460	20	0
Bacon, J. R. Drilling, Inc. 30-35N-1W Nepstad State 7X	1	23049	Kevin Sunburst	Madison	03/13/86	1,522	7	0
Bacon, J. R. Drilling, Inc. 10-35N-3W Fed 1-14X	1	23056	Kevin Sunburst	Madison	04/18/86	1,799	7	0
Bacon, J. R. Drilling, Inc. 12-34N-3W Loftus 2	1	23077	Kevin Sunburst	Madison	07/19/86	1,539	25	0
Berenergy Corp. 6-35N-2W Great Northern 1	1	22936	Kevin Sunburst	Nisku	01/03/86	3,758	6	0
Berenergy Corp. 36-36N-3W Dix Mont State 1	1	22937	Kevin Sunburst	Sunburst	05/22/86	3,288	10	0
Berenergy Corp. 13-36N-3W Sun 1	8	23018	Wildcat		01/24/86	3,568	0	0
Berenergy Corp. 2-36N-3W Thorpe 1	4	23024	Wildcat		01/28/86	4,102	0	0
Branch, Jerry L. 14-33N-3W Byrne 2-14	2	23064	Kevin Southwest	Sunburst	07/19/86	1,474	0	1,125
Branch, Jerry L. 3-34N-3W Hart-Adams 4-3	2	23065	Kevin Sunburst	Kootenai	07/17/86	1,467	0	69
Brown, J. Burns Oper. Co. 28-34N-3W Potter 28-34-3	2	23033	Kevin Southwest	Bow Island				
				Sunburst	06/11/86	1,393	0	556
Brown, J. Burns Oper. Co. 7-34N-3W Golden 7-34-3	3	23034	Kevin Sunburst		04/29/86	1,625	0	0
Brown, J. Burns Oper. Co. 34-34N-3W Potter 34-34-3	2	23059	Kevin Southwest	Bow Island				
				Sunburst	06/11/86	1,369	0	494
Coastal Oil & Gas Corp. 16-34N-1E State 1-16-34-1	2	23020	Kevin, E Nisku Oil	Nisku	01/25/86	3,320	0	300
Coastal Oil & Gas Corp. 34-33N-1E Reding 1-34-33-1	6	23021	Wildcat		01/14/86	3,220	0	0
Coastal Oil & Gas Corp. 3-33N-1E FLB Wiegand 1-3-33-1	6	23022	Wildcat		01/04/86	3,307	0	0
Coastal Oil & Gas Corp. 34-35N-1E Overby 1	1	23086	Kevin, E Nisku Oil	Nisku	10/02/86	3,214	8	0
Comanche Drilling Co., 7-34N-2E Casady 1	6	23035	Wildcat		01/07/86	1,850	0	0
Coolidge, G. B., Inc. 1-34N-1W Ashland 1	2	23073	Kevin, East	Bow Island	06/24/86	513	0	57
Crescent Oil & Gas Corp. 3-32N-2W Schanil 1-3	3	23029	Old Shelby		02/18/86	1,653	0	0
Crescent Oil & Gas Corp. 4-32N-2W Clarkson 1-4	2	23030	Old Shelby	Sunburst	01/13/86	1,670	0	10
Crescent Oil & Gas Corp. 9-36N-2W 1st Nat'l Bank 2-9	2	23031	Old Shelby	Sunburst	01/14/86	1,626	0	126
Crescent Oil & Gas Corp. 2-32N-2W Funk 1-2	2	23032	Old Shelby	Sunburst	01/14/86	1,580	0	319
Crescent Oil & Gas Corp. 11-32N-2W Hasquet 3-11	3	23036	Old Shelby		01/03/86	1,608	0	0
Crescent Oil & Gas Corp. 4-32N-2W McCabe 1-4	2	23046	Old Shelby	Sunburst	03/27/86	1,475	0	385
Crescent Oil & Gas Corp. 3-32N-2W Schanil 2-3	2	23048	Kevin Sunburst	Sunburst	04/21/86	1,570	0	315
Crescent Oil & Gas Corp. 33-33N-2W McSweeney 1-33	2	23079	Old Shelby	Sunburst	07/26/86	1,484	0	697
Croft Petroleum Co., 21-35N-2E Triple G. Farms 4-21	1	23027	Dutch John Coulee	Sunburst	01/17/86	2,050	24	0
Croft Petroleum Co., 21-35N-2E Triple G. Farms 5-21	6	23051	Wildcat		03/28/86	2,051	0	0
Croft Petroleum Co., 2-34N-2E Byrne 16-2	6	23081	Wildcat		08/05/86	2,235	0	0
Croft Petroleum Co., 2-34N-1W Devlin 1-2	3	23095	Kevin Sunburst Nisku		12/12/86	2,920	0	0
Croft Petroleum Co., 7-33N-3E Buechler 1-7	6	23099	Wildcat		12/20/86	1,970	0	0
Eastern American Energy Corp. 4-35N-3W Skelly 15	1	22920	Kevin Sunburst	Madison	01/30/86	2,098	4	0
Hellgate Ventures Inc. 5-34N-3W Sorrell 1-5	3	23082	Kevin Sunburst		08/26/86	1,722	0	0
Hellgate Ventures Inc. 5-34N-3W Sorrell 2-5	2	23084	Kevin Sunburst	Sunburst	10/05/86	1,474	0	418
Falcon Petroleum Corp. 12-33N-2E State 4-12	6	23066	Wildcat		06/04/86	1,826	0	0

1986 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
Bluejay Resources, Inc. 19-34N-2W Gordon 1	2	23094	Kevin Sunburst	Sunburst	11/17/86	1,603	43	0
Flying J Expl. and Prod. 6-35N-3W Flat Iron Fed 10-6	3	23092	Kevin Sunburst		11/26/86	2,750	0	0
Lyon, John J. 15-34N-4W Earl Davis 1	3	23074	Kevin Sunburst		07/10/86	2,006	0	0
McCarthy, Lawrence J. 11-33N-1E Smith 1-11	5	23038	Devon **	Bow Island	01/14/86	900	0	81
McCarthy, Lawrence J. 32-34N-3E Leck 1-32	6	23062	Wildcat		06/01/86	2,026	0	0
McCarthy, Lawrence J. 21-35N-3E Morris 1-21	6	23101	Wildcat		12/22/86	2,465	0	0
Meridian Oil, Inc. 22-35N-1E B&B Ranch Co. 11-22	8	22862	Wildcat		08/29/85	3,433	0	0
Meridian Oil, Inc. 22-35N-1E Turner 13-22	4	22965	Kevin, E Nisku **	Nisku	12/30/86	3,454	26	0
Meridian Oil, Inc. 21-35N-1E Tordale 31-21	6	22987	Wildcat		11/14/85	3,465	0	0
Meridian Oil, Inc. 14-35N-1E B&B Ranch 21-14	6	23010	Wildcat		12/24/85	3,448	0	0
Meridian Oil, Inc. 17-35N-1E Grinde 41-17	3	23011	Ninemile		01/08/86	3,450	0	0
Meridian Oil, Inc. 16-35N-2E State 24-16	2	23012	Eagle Springs	Sunburst	02/21/86	3,503	0	2,300
Meridian Oil, Inc. 16-35N-2E State 34-16	1	23013	Ninemile	Sunburst	03/14/86	2,085	77	0
Meridian Oil, Inc. 22-35N-1E Turner 24-22	6	23016	Wildcat		01/10/86	3,442	0	0
Meridian Oil, Inc. 16-35N-2E State 23-16	6	23045	Wildcat		04/03/86	2,084	0	0
Montana Power Co., 14-33N-1W MPC Fee 4-14	2	22872	Dunkirk, North	Swift	05/02/86	1,410	0	35
Montana Power Co., 4-33N-1W MPC Fee 11-4	2	22922	Meistone	Sunburst	05/02/86	1,332	0	63
Montana Power Co., 20-33N-1W MPC Fee 11-20	2	22923	Old Shelby	Swift, Sunburst	05/05/86	1,400	0	143
Montana Power Co., 15-33N-1W MPC Fee 12-15	2	23052	Old Shelby	Sunburst	05/24/86	1,350	0	188
Montana Power Co., 10-33N-1W MPC Fee 15-10	2	23053	Old Shelby	Bow Island	05/01/86	1,371	0	102
Natural Gas Proc. Co. 30-33N-2E Morse-Wester 1-30	2	23068	Devon	Bow Island	06/10/86	825	0	97
Natural Gas Proc. Co. 29-33N-2E Dyrdal 3-29	2	23070	Devon	Bow Island	06/13/86	810	0	85
Natural Gas Proc. Co. 33-33N-2E Harwood 5-33	2	23071	Devon	Bow Island	06/17/86	844	0	36
Natural Gas Proc. Co. 23-32N-2E Hellingner 16-23	5	23072	Devon, East**	Bow Island	06/25/86	697	0	116
Natural Gas Proc. Co. 32-33N-2E Atkinson 4-32	2	23097	Devon	Bow Island	12/13/86	773	0	141
Northern Montana Oil Services 14-33N-1W Seymour 2	2	23088	Old Shelby	Swift	10/07/86	1,400	0	129
P & M Petroleum Management 2-37N-4W Old Border Unit 15	1	22762	Border, Old	Cut Bank	12/07/84	2,522	1	0
P & M Petroleum Management 1-37N-4W Old Border Unit 17	1	22763	Border, Old	Cut Bank	01/03/85	2,593	2	0
Quintana Petroleum Corp. 33-35N-1E Grinde 1-33	6	22927	Wildcat		11/11/85	3,070	0	0
Quintana Petroleum Corp. 13-34N-1W Steiger 1-13	6	22982	Wildcat		10/26/85	1,668	0	0
Quintana Petroleum Corp. 4-34N-1E Celsius 2-4	1	23044	Kevin, East Nisku	Nisku	05/03/86	3,033	51	0
Rimrock Drilling Co., 7-34N-2W State 6A	1	23019	Kevin Sunburst	Madison	04/25/86	1,545	8	0
Rimrock Drilling Co., 7-34N-2W State 9	1	23060	Kevin Sunburst	Madison	06/28/86	1,550	1	0
Rimrock Drilling Co., 7-34N-2W State 7	1	23061	Kevin Sunburst	Madison	07/11/86	1,520	2	0
Rimrock Drilling Co., 7-34N-2W State 8	1	23063	Kevin Sunburst	Madison	06/16/86	1,515	9	0
Rossmiller, Duard 12-34N-4W Negu 2	3	21306	Kevin Sunburst		07/14/86	1,894	0	0
Rossmiller, Duard 11-34N-2W Shaver 1X	1	22059	Kevin Sunburst	Madison	09/12/81	1,463	1	0
Rossmiller, Duard 2-34N-3W Ahlstedt 10-2	1	22090	Kevin Sunburst	Madison	11/14/81	1,535	2	0
Rossmiller, Duard 2-34N-3W Ahlstedt 11-2	3	22412	Kevin Sunburst		10/07/82	1,520	0	0
Rossmiller, Duard 12-34N-2W Adams 13	1	22525	Kevin Sunburst	Madison	11/16/83	1,518	10	0
Rossmiller, Duard 12-34N-2W Adams 14	1	22563	Kevin Sunburst		07/24/84	1,517	0	0
S & W Petroleum Consultants 7-36N-3W Fed C207	2	23083	Amanda	Bow Island	10/04/86	1,773	0	301
Silver Fox Oil 27-35N-2W Lashbough 5X	8	23028	Kevin Sunburst		05/01/86	1,525	0	0
SoMont Oil Co., Inc. 28-35N-4W Flying J 1	2	23023	Cut Bank	Madison	12/18/85	2,274	10	1,500
SoMont Oil Co., Inc. 28-35N-2W Moe M-1	1	23026	Kevin Sunburst	Madison	12/12/85	1,614	14	0
SoMont Oil Co., Inc. 33-35N-4W Sabine 1	2	23054	Cut Bank	Madison	05/20/86	2,215	0	250
SoMont Oil Co., Inc. 25-35N-3W Inc-Summer II	2	23055	Kevin Sunburst	Madison	04/30/86	1,586	0	0
Transitions, Inc. 12-34N-4W Negu 11-12	1	22511	Kevin Sunburst	Madison	06/12/85	1,864	1	0
Walls, Adrian G. 7-35N-1W Cynthia 2	1	23057	Kevin Sunburst	Madison	04/24/86	1,743	1	0
Walls, Adrian G. 7-35N-1W Cynthia 1	1	23058	Kevin Sunburst	Madison	04/23/86	1,743	3	0
Walls, Adrian G. 35-33N-2W Steiger 1-35	2	23078	Old Shelby	Sunburst	08/01/86	1,466	0	404
Walls, Adrian G. 13-33N-2W Chevron 1-13	2	23080	Prarie Dell	Sunburst	08/01/86	1,466	0	404
Walls, Adrian G. 27-33N-2W Chevron 1-27	2	23090	Prarie Dell	Sunburst	10/17/86	1,533	0	455
West Gas, Inc. 2-35N-3W Haugen 14-2	1	22526	Kevin Sunburst	Madison	05/16/84	1,872	4	0
Western Natural Gas Co., 11-34N-2E Christiaens 1	6	23075	Wildcat		07/09/86	2,164	0	0
Western Natural Gas Co., 11-34N-2E State 2	3	23089	Strawberry Creek		10/09/86	2,013	0	0
Valley—105								
Atlantic Richfield Co., 27-29N-41E Spring Creek 1-27	6	21396	Wildcat		03/15/86	7,750	0	0
Coastal Oil & Gas Corp. 10-30N-44E Martin 1-10	3	21397	Lustre		03/21/86	6,120	0	0
Exxon Corp. 29-31N-44E Olfert C 3	1	21304	Lustre	Charles C	06/25/86	5,900	106	0

1986 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
Exxon Corp. 16-30N-45E Katherine Hawkins 1	1	21378	Midfork	Charles	04/10/86	7,350	215	0
Exxon Corp. 8-30N-45E Kenneth Dahl 1	6	21393	Wildcat		12/18/85	6,213	0	0
Exxon Corp. 4-31N-39E Cherry Creek State 1	8	21394	Wildcat		07/11/86	5,131	0	0
Ladd Petroleum Corp. 18-30N-45E Dahl 1	6	21325	Wildcat		03/15/85	7,140	0	0
Ladd Petroleum Corp. 2-30N-44E Hawley 2-32	3	21364	Lustre		05/15/85	7,160	0	0
Meridian Oil, Inc. 6-30N-44E Telep 21-6	3	21403	Lustre		10/17/86	5,900	0	0
Phillips Petroleum Co., 24-36N-36E Thoeny Fed A 1-24	6	21355	Wildcat		03/14/85	4,774	0	0
Roseland Oil and Gas, Inc. 19-32N-45E Mary Saubak 1	4	21400	Wildcat	Ratcliffe	07/23/86	7,200	20	0
Santa Fe Energy Co., 32-29N-43E Nashua Tribal 1-32	6	21335	Wildcat		11/13/84	5,920	0	0
Santa Fe Energy Co., 10-31N-44E Sandvick 2-10	3	21395	Lustre, North		01/30/86	6,200	0	0
Sun Expl. and Prod. 31-31N-44E Wilder-Clark 1	1	21383	Lustre	Ratcliffe	05/05/86	5,524	100	0
Wibaux—109								
Shell Western E&P Inc. 29-12N-57E N. Pine Unit 12A-29	8	21065	Pine		10/22/85	9,152	0	0
Yellowstone—111								
Balcon Oil Co., 2-4N-25E Jorgenson Land 2-2	3	21186	Crooked Creek		09/02/85	5,073	0	0
Basso, Lindberg, Westwood, Wol 10-3S-24E Rawhouser-Krug 1	6	21172	Wildcat		11/23/84	1,202	0	0
Basso, Lindberg, Westwood, Wol 10-3S-24E Rawhouser-Krug 2	6	21175	Wildcat		01/15/85	1,128	0	0
Basso, Lindberg, Westwood, Wol 23-3S-24E Fed 1	6	21205	Wildcat		10/24/86	1,048	0	0
Basso, Lindberg, Westwood, Wol 6-4S-25E Lindberg 1-6R	6	21207	Wildcat		12/10/86	1,022	0	0
Gary Drilling Co. 3-6N-32E Botts 2-3	1	21194	Wolf Springs, South	Amsden	01/25/86	6,115	279	0
Hewitt Producing Co., 31-4N-26E Fox 1	6	21191	Wildcat		12/10/85	4,607	0	0
Hewitt Producing Co., 31-4N-26E Fox 1-X	6	21193	Wildcat		01/09/86	5,744	0	0
Montana Power Co., 35-2N-28E Barkmeyer 16-35	6	21196	Wildcat		03/01/86	3,270	0	0
R & J Production, Inc. 26-3S-24E Kelly 4	1	21165	Mosser Dome	Mosser Sand	05/01/85	1,000	5	0
R & J Production, Inc. 26-3S-24E Spaeth 10	1	21183	Mosser Dome	Mosser Sand	05/17/85	985	6	0

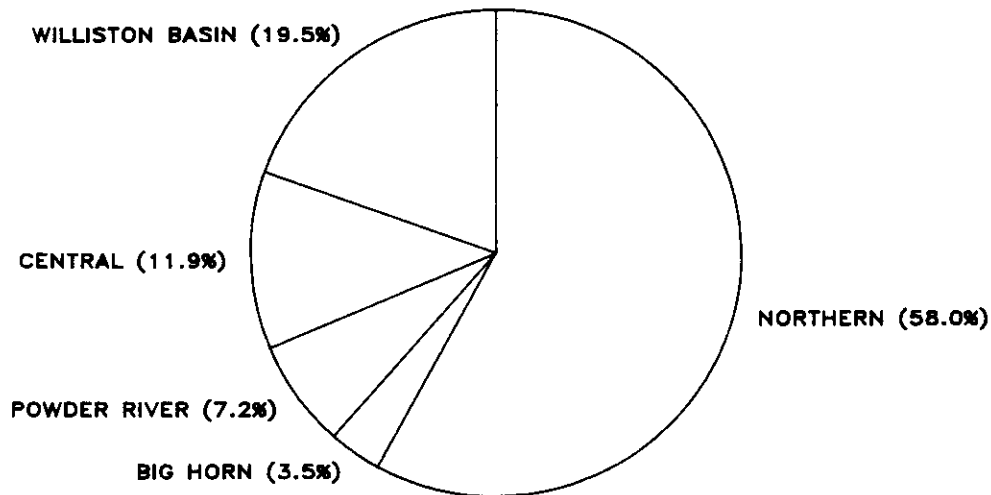
Status Codes:

- 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

1986 WELLS COMPLETED

(405 WELLS - BY REGION)



1986 SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1986		No. of Inj. Wells	Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF		
Ash Creek Crow Tribe	Shannon	Mobil	Waterflood	Peripheral	10/64	256	—	30	Surface
Ash Creek SU (MT)	Shannon	L & A Energy	Waterflood	Peripheral	10/64	1,275	71	2	WSW & Produced
Bell Creek A	Muddy	Gary Energy	Waterflood	Peripheral	4/70	186,122	23,394	33	Madison
Bell Creek B	Muddy	Gary Energy	Waterflood	Peripheral	10/70	52,991	5,381	9	Madison
Bell Creek C	Muddy	Gary Energy	Waterflood	Peripheral	9/71	35,809	6,008	4	Madison
Bell Creek D	Muddy	Gary Energy	Waterflood	Peripheral	1/72	37,325	2,662	9	Madison
Bell Creek E	Muddy	Gary Energy	Waterflood	Peripheral	1/72	34,687	2,965	11	Madison
Bell Creek Ranch Creek	Muddy	Gary Energy	Waterflood	Peripheral	3/71	44,790	2,486	7	Produced
Big Wall BSU	Upper Tyler	Texaco	Waterflood	Random	8/66	35,176	3,563	2	Produced
Big Wall LTSU	Lower Tyler	Texaco	Waterflood	Random	10/84	9,639	6,325	3	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	2,537	1,564	2	Madison
Border New	Cut Bank	P & M Petroleum	Waterflood	Random	1/82	—	—	—	Idle
Border Old	Cut Bank	P & M Petroleum	Waterflood	Random	6/73	1,735	380	1	Madison
Cabin Creek	Siluro-Ord	Shell	Waterflood	Semi Peripheral	6/59	302,819	22,256	26	Produced
Cat Creek East Dome	Ellis Sand	Hoss	Waterflood	Semi Peripheral	7/70	1,187	230	4	3rd Cat Creek
Cat Creek Mosby Dome	Swift	Cenex	Waterflood	Random	7/67	16,389	677	3	3rd Cat Creek
Cat Creek Mosby Dome									
Amsden	Amsden	Cenex	Waterflood	Random	6/71	313	—	—	Idle
Cat Creek Unit 1	1st Cat	Cenex	Waterflood	Semi Peripheral	10/62	7,259	548	2	3rd Cat Creek
Cat Creek Unit 1	2nd Cat	Cenex	Waterflood	Semi Peripheral	10/62	9,736	896	2	3rd Cat Creek
Cat Creek Unit 2	1st Cat	Cenex	Waterflood	Semi Peripheral	12/59	9,639	63	1	3rd Cat Creek
Cat Creek Unit 2	2nd Cat	Cenex	Waterflood	Semi Peripheral	12/59	11,841	512	3	3rd 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	2,042	25	1	Madison
Cut Bank Marina	Cut Bank	P & M Petroleum	Waterflood	5 Spot	6/72	2,075	—	—	Idle
Cut Bank McGuinness	Madison	Union Oil	Waterflood	Random	12/62	6,989	—	—	Idle
Cut Bank N. Central	Cut Bank	Phillips	Waterflood	5 Spot	5/78	5,125	1,178	8	Madison
Cut Bank NE	Moulton	Fair	Waterflood	5 Spot	6/63	5,990	88	2	Madison
Cut Bank NE	Cut Bank	J & G	Waterflood	5 Spot	0/00	13,409	—	—	Idle
Cut Bank NW	Cut Bank	Gary Wolf	Waterflood	5 Spot	1/62	18,794	205	5	Madison
Cut Bank S. Central	Cut Bank	Union Oil	Waterflood	5 Spot	5/63	50,495	7,852	48	Madison
Cut Bank SW	Cut Bank	J.R. Bacon	Waterflood	5 Spot	9/62	120,995	6,959	48	Madison & Recycled
Cut Bank Tesoro	Cut Bank	City Oil Co.	Waterflood	5 Spot	9/71	6,422	—	—	Madison & Recycled
Cut Bank Tweedy	Cut Bank	P & M Petroleum	Waterflood	5 Spot	6/72	1,368	135	1	Madison
Cut Bank Two Medicine	Cut Bank	S & J Operating	Waterflood	Random	12/67	58,443	1,775	28	Madison & Recycled
Darling	Cut Bank	P & M Petroleum	Waterflood	Random	2/67	—	—	—	Idle
Darling North	Moulton	Buttes Resources	Waterflood	Random	2/68	2,472	—	—	Idle
Darling South	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	5,651	174	1	Dwyer Charles
Elk Basin	Frontier	Amoco	Waterflood	Crestal	12/72	6,039	—	—	Produced
Elk Basin Unit	Tensleep	Arco	Waterflood	Semi Peripheral	4/67	5,478	—	—	Produced
Elk Basin NW	Tensleep	Arco	Waterflood	Semi Peripheral	5/76	4,961	—	—	Idle
Fairview	Red River	Mepna	Pressure Maint	Random	5/70	4,186	—	—	Idle
Flat Coulee	Swift	Breck Oper. Corp	Waterflood	Peripheral	2/72	11,077	2,074	13	Eagle
Flat Lake	Ratcliffe	Chevron USA	Pressure Maint	Random	6/71	34,745	3,808	15	Produced
Flat Lake West	Ratcliffe	Chevron USA	Pressure Maint	Random	0/00	6,975	542	4	Produced
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	224,891	98,712	50	Produced
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	118,052	19,592	8	Produced
Fred & George Creek	Sunburst	Fulton	Waterflood	Random	7/76	45,626	6,222	2	Madison & Eagle
Gas City	Red River	Shell	Waterflood	Semi Peripheral	10/69	15,302	35,992	2	Mission Canyon
Goose Lake	Ratcliffe	Cotton Petroleum	Waterflood	Semi Peripheral	1/73	21,902	6,482	1	Produced
Graben Coulee	Cut Bank	Monte Grande	Waterflood	Random	7/83	71	163	2	Madison
Gumbo Ridge	Tyler B	Meridian Oil	Waterflood	Semi Peripheral	6/80	2,645	950	2	Produced Cat Creek
Highview	Madison	Mountain States	Co2 Inj	Random	7/82	581	11,125	1	Produced
Ivanhoe	Tyler	Tomahawk Oil Co.	Pressure Maint	Random	5/64	78	71	1	Madison
Jim Coulee	Tyler	Texas Petroleum	Waterflood	Semi Peripheral	7/72	12,204	3,578	6	Produced Cat Creek
Keg Coulee Unit	Tyler	Buttes Resources	Waterflood	Semi Peripheral	8/66	5,307	619	1	Madison
Keg Coulee Tyler SU	Tyler	Damson Oil Corp.	Waterflood	Semi Peripheral	12/69	3,609	—	—	Idle
Keg Coulee NW Unit	Tyler	Bison Operating	Waterflood	Semi Peripheral	1/70	7,530	—	—	Idle
Kelley	Tyler B	Union Texas	Waterflood	Random	7/69	3,019	422	1	3rd Cat Creek
Kevin Sunburst	Sunburst	Texaco	Waterflood	Random	8/64	12,775	645	4	Madison
Kevin Homestake SU	Sunburst	Petro Production	Waterflood	Random	8/64	8,362	645	4	Madison
Laird Creek	Swift	Meridian Oil	Waterflood	Semi Peripheral	2/77	807	—	—	Idle
Little Beaver	Red River	Shell Oil	Waterflood	Semi Peripheral	8/66	47,744	5,301	9	Produced
Little Beaver East	Red River	Shell Oil	Waterflood	Semi Peripheral	4/65	21,602	3,995	6	Produced

1986 SUMMARY (CONTINUED)

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	986		No. of Inj. Wells	Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or M MCF	Avg. Daily Inj. Rate Bbls. or MCF		
Little Wall South	Tyler	Union Texas	Waterflood	Random	0/00	2,910	5,377	5	Unit Wells
Lookout Butte Coral Creek	Red River	Shell Oil	Waterflood	Semi Peripheral	4/67	44,696	4,539	8	Minnelusa
Melstone North	Tyler	True Oil	Polymer Water	UK	1/83	1,991	1,830	5	3rd Cat Creek
Monarch	Siluro-Ord	Shell Oil	Waterflood	UK	12/73	6,425	103	1	UK
Pennel	Stoney Mtn, Red River	Shell Oil	Waterflood	Random	8/69	186,416	42,115	52	Dakota & Produced
Pine A	Siluro Ord	Shell Oil	Waterflood	Semi Peripheral	3/59	150,450	22,342	22	Fox Hills & Produced
Pine C & D	Red River	Shell Oil	Waterflood	Semi Peripheral	3/68	22,706	1,138	4	Lodgepole
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	1,184	93	1	Eagle
Ragged Point Tyler A	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/66	10,144	879	1	Cat Creek
Ragged Point SW	Tyler	Petro Lewis	Waterflood	UK	10/82	2,708	2,022	1	WSW
Raymond	Nisku	Santa Fe Energy	CO ₂ Inj	UK	8/83	6,933	520	1	Duperow
Regan Dome	Madison	Union Oil	Waterflood	Random	7/73	4,825	1,381	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	75	119	1	Tyler
Stensvad	Tyler	Tomahawk Oil	Waterflood	Semi Peripheral	12/63	29,792	565	1	Produced
Sumatra Central	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	147,412	41,115	17	Madison & Produced
Sumatra Grebe	Tyler	Cenex	Waterflood	Random	6/75	716	—	—	Madison & Produced
Sumatra NE	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	10,330	1,752	5	Madison & Produced
Sumatra Sawyer	Tyler	Buttes Resources	Waterflood	Semi Peripheral	6/80	1,015	—	—	Idle
Sumatra SE	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/69	22,535	3,351	3	Madison
Sumatra West	Tyler	Conoco	Waterflood	Semi Peripheral	10/68	21,655	697	10	Produced
Sumatra W. Kincheloe	Tyler	Apache Corp.	Waterflood	Semi Peripheral	5/82	7,441	4,281	6	Madison
Tippy Buttes	Tyler	True Oil	Waterflood	Random	5/82	117	71	1	Dakota
Winnett Junction	Tyler	Templeton Energy	Waterflood	Random	10/77	6,101	1,363	2	Produced & WSW

OIL AND GAS FIELDS

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
ACE HIGH Tyler	1	0	0	Statewide.
ALKALI COULEE Red River	0	0	1	320-acre spacing units; well location no closer than 660' from unit boundary and no closer than 1,650' from well producing from the same pool. (Order 77-81)
ALMA Bow Island	0	3	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)
ANTELOPE COULEE Blackleaf	0	3	0	Statewide.
ANVIL Nisku Ratcliffe Red River	1 3 9	0 0 0	0 0 1	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 4	38 1	5 1	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	6	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)
AUTUMN Mission Canyon	0	0	1	Statewide. Produced water disposed into Dakota formation. (Order 112-A-82)
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 Interlake Red River-Gunton Winnipegosis Madison	1 2 1 1	0 0 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	1 4 3	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 2	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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	32	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)
BEAN BLOSSOM Tyler B	3	0	0	Three spacing units with one well per lot. (Order 23-86)
BEARS DEN Bow Island	0	1	0	Statewide.
Madison	0	0	1	
Swift	7	2	0	
BELFRY Kootenai	0	0	1	Statewide.
BELL CREEK Muddy	174	0	122	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	0	0	1	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)
Madison	1	0	0	
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)
BENRUD, NORTHEAST Nisku	1	0	0	Same as Benrud Field. (Order 6-65) Water disposal into Judith River formation. (Order 32-66)
BERTHELOTE Sunburst	2	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	0	7	1	Statewide. Single spacing unit: Sec. 29, T4N R20E for production of gas from Morrison formation. (Order 25-86)
Lakota	0	1	0	
Morrison	0	2	0	
BIG GULLY Tyler	2	0	0	Statewide.
BIG GULLY, NORTH Tyler	1	0	0	Statewide.
BIG MUDDY CREEK Mission Canyon	2	0	1	One well per 320-acre spacing unit with well no closer than 660' from boundary of four east-west units. (Order 4-75)
Ratcliffe	1	0	0	
Red River	2	0	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BIG ROCK GAS FIELD				
Blackleaf	0	26	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)
Bow Island	0	12	2	
Madison	2	0	0	
Colorado	0	5	0	
BIG WALL				
Amsden	2	0	0	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	11	0	14	
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	
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)
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)
Devonian	1	0	0	
BLACKFOOT SHALLOW GAS				
Sunburst-Dakota	0	9	1	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	1	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	4	0	0	
Stonewall	0	0	1	
BLUE HILL				
Red River	1	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BLUE MOUNTAIN				
Red River	1	0	0	Statewide.
BORDER				
Cut Bank	12	0	4	Oil: Unitized into New and Old Border fields. Unitized 6-1-73. (Orders 8-73, 9-73)
Moulton	0	1	0	Gas: 330' from boundary of legal subdivision. 2,400' between wells in same formation on same lease. 75' topographic tolerance. (Order 7-54)
Sunburst	0	1	0	Waterflood approved. (Orders 8-73, 9-73, 28-73)
BOWDOIN & AREA				
Montana & Colorado Shale	0	575	47	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	0	38	4	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)
Sawtooth	54	0	42	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61) Water from Madison.
BOX CANYON				
Red River	3	0	0	Statewide.
BRADLEY				
Dakota	0	1	0	One well per formation per section for production of gas from all horizons above the top of the Kootenai formation. (Order 91-84)
Madison	1	0	0	
Sunburst	1	0	1	
BRADY				
Morrison	9	0	0	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)
Sunburst	9	0	1	Produced water disposed into Sunburst formation. (Order 62-A-84)
BREED CREEK				
Tyler	12	0	2	Statewide.
BROADVIEW				
Frontier	0	1	0	Single 640-acre spacing unit comprised of Sec. 35, T5N R22E. (Order 8-86)
BRORSON				
Madison	11	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.
Red River	3	0	0	Produced water injected into Dakota formation. (Order 129-A-81) SWD approved EPA 86.
BRORSON, SOUTH				
Madison	2	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)
Red River	3	0	0	
BROWN'S COULEE, EAST				
Eagle	0	2	1	Statewide.
Judith River	0	1	0	
BRUSH LAKE				
Red River	5	0	0	320-acre spacing unit with initial nine spacing units described in Order 15-71 corrected.
BUFFALO FLAT				
Bow Island	0	6	1	Statewide.
Duperow	1	0	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
BUFFALO LAKE				
Madison	0	0	1	Statewide.
Sawtooth	0	0	1	
BULLWACKER				
Eagle	0	40	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	
BURGET, EAST				
Madison	3	0	0	Statewide.
Red River	1	0	0	
BURNS CREEK				
Duperow	1	0	0	Statewide.
Red River	1	0	0	
BURNS CREEK, SOUTH				
Red River	1	0	0	320-acre spacing units; well location to be no closer than 660' from unit boundary. (Order 2-82)
CABIN CREEK				
Madison	7	0	8	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.
Silurian-Ordovician	88	0	1	
CAMP CREEK				
Eagle	0	1	2	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	2	0	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				
Silurian-Ordovician	2	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) Produced water disposed into Dakota formation. (Order 126-A-81)
CAT CREEK, EAST DOME				
Ellis	11	0	2	Which Cat Creek gets the paragraph? 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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
CAT CREEK, MOSBY DOME				
Amsden	0	0	3	Statewide
Cat Creek 2 & 3	8	0	0	
Ellis	8	0	0	
Rierdon	1	0	0	
CAT CREEK, WEST DOME				
Cat Creek 1 & 2	31	0	3	Statewide
Ellis	1	0	0	
Morrison	3	0	0	
Mowry	2	0	0	
CEDAR CREEK				
Eagle	0	88	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)
Judith River	0	5	0	Delineation amendments. (Order 23-76 and 32-86)
CHAIN LAKES				
Eagle	0	3	2	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.
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	3	0	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.
CLEAR LAKE				
Madison	4	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)
Nisku	1	0	0	
Red River	7	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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
COAL RIDGE Missouri 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	3	0	2	
CORNER POCKET Red River	1	0	0	Statewide.
COTTONWOOD Red River	1	0	0	Single spacing unit. (Order 85-84)
COW CREEK Charles	1	0	0	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)
Silurian-Ordovician	2	0	0	
CROCKER SPRINGS, EAST Mississippian	1	0	0	80-acre spacing units to be either the N/2 or S/2 of a regular quarter section. Well to be located in the center of either the NE quarter quarter or the SW quarter quarter section with a 150' topographic tolerance. (Order 68-82)
CROOKED CREEK Dakota	3	0	0	Statewide.
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, SOUTH Red River	1	0	1	Single spacing unit. (Order 14-85)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
CUT BANK				
Blackleaf	0	2	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) Sect. 20, 29, and 32 of T36N, R4W spaced 320-acres (N 1/2 and S 1/2). (Order 26-70)
Bow Island	0	15	0	
Cut Bank	603	185	360	
Cut Bank-Madison	2	0	0	
Kootenai	3	0	1	
Madison	50	1	18	
Moulton	31	23	34	
Sunburst	3	6	1	
Swift	0	1	0	
Tyler	0	0	1	
Dakota	0	1	0	
				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 and Order 88-85 SWD approved EPA-86.
DAGMAR				
Red River	4	0	0	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	4	0	0	Statewide. Produced water injected into Judith River formation. (Order 132-A-81) SWD approved EPA 86.
DEAN DOME				
Greybull	5	1	1	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	1	0	1	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)
Heath	6	0	0	
Tyler	1	0	0	
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	20	0	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)
DEVON, EAST				
Bow Island				320-acre spacing units consisting of any two contiguous quarter sections; wells located no closer than 660' to spacing unit boundaries. (Order 42-86)
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)
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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
DIVIDE				
Madison	8	0	0	Statewide. Produced water disposed into Dakota formation. (Order 42-A-80, 130-A-81)
DRY CREEK				
Eagle	0	1	0	Statewide. Field redelineated. (Order 8-70) Six additional gas storage wells, west end of structure.
Frontier	1	12	2	
Greybull	0	2	0	
Judith River	0	2	1	
Virgelle/Eagle	0	3	0	
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
DUGOUT CREEK				
Red River	0	0	1	320-acre spacing units. Well to be no closer than 660' from unit boundary. (Order 22-82)
DUNKIRK				
Bow Island	0	5	2	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)
Dakota	0	16	0	
DUNKIRK, NORTH				
Bow Island	0	13	2	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)
Dakota-Kootenai	0	1	0	
Swift	0	1	0	
DUTCH JOHN COULEE				
Sunburst	4	0	1	Statewide.
DWYER				
Madison	11	0	3	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.
Interlake	0	1	0	
DWYER RED RIVER & AREA				
Red River	6	0	0	Single spacing unit with 2 wells. (Order 97-83)
EAGLE				
Duperow	2	0	0	Statewide.
Madison	20	0	1	
Red River	1	0	0	
EAGLE SPRINGS				
Bow Island-Sunburst-Swift	0	6	4	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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	0	0	1	Statewide spacing is waived within unit areas. (Order 10-61) Gas to Elk Basin gasoline plant.
Frontier	10	0	10	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.
Madison	26	0	3	
Embar-Tensleep	16	0	13	
ELK BASIN, NORTHWEST				
Frontier	0	0	12	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.
Kootenai	0	0	1	
Tensleep	0	0	6	Frontier: Waterflood in progress. Embar-Tensleep: Waterflood. (Order 3-67, 6-74) Madison, produced water.
ENID, NORTH				
Bakken	2	0	0	Spaced for one well field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T23N, R54E.
Red River	3	0	0	(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	0	0	1	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)
Interlake	1	0	0	
Madison	7	0	0	
Red River	12	0	1	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	2	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)
FIDDLER CREEK				
Greybull	2	0	0	Statewide.
FISHHOOK				
Madison	1	0	0	Statewide.
Red River	4	0	0	
FITZPATRICK LAKE				
Bow Island	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	0	1	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.
Bow Island	0	2	0	
Dakota	0	1	0	
Sawtooth	0	0	1	Waterflood unit and redelineation approved for Swift sandstone. (Orders 13-71, 17-A-71, 22-71)
Swift	22	3	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
FLAT COULEE, EAST Sawtooth	0	0	1	Statewide
FLAT LAKE Madison Nisku	50 1	0 0	12 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	5	0	1	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	1	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	1	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 11 2	0 0 0	0 2 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 Red River Stonewall	0 1	0 0	1 0	Statewide.
FOX CREEK, NORTH Madison Stoney Mountain	2 0	0 0	0 1	160-acre spacing units for Madison formation; wells located no closer than 660' to the unit boundary with 150' topographic tolerance. (Order 13-84)
FRANNIE 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 30 3	2 0 1 2	0 0 20 0	Sunburst Oil: 40-acre spacing units; well location in center of unit with 250' topographic tolerance. (Orders 29-63, 1-65, amended by Order 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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	6	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)
GILFORD, NORTH Sawtooth	0	0	1	320-acre specified spacing units. One well per unit 660' from boundary, 2,640' between wells. (Order 9-58) Boundary reduction. (Order 38-76) Field enlargement. (Order 9-79)
GIRARD Bakken Red River	1 1	0 0	0 0	Statewide.
GLENDIVE Silurian-Ordovician	14	0	6	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)
GOOSE LAKE Ratcliffe Red River	33 1	0 0	5 0	160-acre spacing units for Ratcliffe formation. (Order 42-63) Field enlarged. (Orders 40-66, 47-67, 16-68) Refer to said orders for authorized well locations. Field size reduced. (Order 29-77) Single spacing unit for Red River. (Order 1-82) North Goose Lake Unit waterflood. (Order 17-72) Unit production curtailment. (Order 45-77) 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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
GOOSE LAKE, WEST				
Red River	3	0	0	Statewide.
GOSSETT				
Madison	1	0	3	Statewide.
Red River	1	0	0	
Stoney Mountain	1	0	0	
GRABEN COULEE				
Cut Bank	75	0	1	40-acre spacing units; well location no closer than 330' from legal subdivision. (Cut Bank and Madison) Oil: 330' from boundary of legal subdivision and 650' from any other well in same reservoir and on same lease. 75' topographic tolerance. (Order 73-62) Excess produced water disposed into Cut Bank formation. (Order 45-A-75 and 63-A-84) Waterflood of Cut Bank sands. (Order 61-83) SWD approved EPA 86.
Madison	5	0	0	
Sunburst	12	0	2	
GRANDVIEW				
Bow Island	0	5	1	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	5	0	0	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	1	0	0	Single spacing unit. (Order 99-82)
GUMBO RIDGE				
Tyler	4	0	0	Statewide. Third Cat Creek water for waterflood. (Order 54-79)
GUNSIGHT				
Madison	3	0	1	Statewide.
GYPSY BASIN				
Sawtooth, Sunburst, Swift, Madison, Nisku	22	6	24	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	9	0	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	34	12	Statewide.
HARDPAN				
Bow Island	0	13	2	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	1	Statewide.
HAVRE				
Eagle	0	4	1	Single spacing unit for production of gas.
HAWK CREEK				
Amsden	1	0	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	1	0	0	Statewide. Produced water disposed into the Amsden formation. (Order 9-A-82)
HIGH FIVE				
Stensvad	9	0	1	Statewide. Water disposed into Dakota and Stensvad formations. (Orders 33-A-77, 70-A-78) Unitized & Polymer-Waterflood authorized. (Order 110-80)
Tyler	6	0	0	
HIGHVIEW				
Madison	10	3	8	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)
Nisku	1	0	0	
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				
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	
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	0	0	1	
Morrison	1	0	0	
Tyler	3	0	5	
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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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
Nesson	1	0	0	Mission Canyon spacing unit. (Order 89-84)
Red River	5	0	0	Produced water disposed into the Dakota formation. (Order 15-A-82)
KEG COULEE Stensvad	2	0	1	40-acre spacing in southwest portion of field except that spacing is waived in unitized portion.
Tyler	10	0	9	(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.
KEG COULEE, NORTH Tyler	2	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	1	0	
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	2	0	1	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. (Order 29-86)
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	9	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
Sunburst	0	9	0	formations above the top of the Kootenai. (Orders 26-78, 47-78, 48-78) Field enlargement. (Orders 96-79, 47-80, 163-81)
Swift	0	2	0	
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)
Colorado, Sunburst, Ellis Stray Sand, Cut Bank & Madison	1147	76	446	
Dakota, Sunburst, Swift, Bow Island & Kootenai	54	25	3	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) SWD approved EPA-84, 85, 86.
Eagle	0	1	0	
Ellis	58	0	7	
Nisku	2	0	1	
Sawtooth	1	0	0	
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)
Devonian-Nisku				Oil: 80-acre spacing units; location no closer than 330' from spacing unit boundary. (Order 7-86)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	1	4	0	
KINCHELOE RANCH, WEST				
Tyler	5	0	0	Statewide.
KINYON COULEE AREA				
Bow Island	0	3	0	Statewide.
KINYON COULEE SOUTH				
Bow Island	0	1	0	Only one well permitted. Well location no closer than 990' from section line. (Order 31-81)
KIPPEN AREA, EAST				
Madison-Swift	0	0	1	Statewide.
Sawtooth	0	0	1	
LAIRD CREEK (LAIRD CREEK U)				
Swift	8	0	1	Statewide. Unitized and waterflood authorized in Swift for oil production. (Order 25-74) Commenced 2-25-77.
LAKE BASIN				
Clagget	0	2	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	1	
Frontier	0	1	0	
Telegraph Creek	0	5	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	11	0	8	Statewide. Reinject gas into Madison formation. (Order 84-84) SWD approved EPA 86.
Sun River	3	0	0	
LAREDO				
Eagle	0	1	11	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)
LEARY				
Muddy	3	0	0	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	0	43	6	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)
Sawtooth	0	0	1	
LEROY				
Eagle	0	30	11	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 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, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	34	0	1	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	1	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	1	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 Tyler	19	0	5	Statewide.
LOBO Interlake Red River	1 1	0 0	0 0	Statewide
LODGE GRASS Minnelusa	2	0	0	Statewide.
LOHMAN Eagle	0	4	4	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78)
LONE BUTTE Red River	3	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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
LONG CREEK, WEST Nisku	2	0	0	80-acre spacing units comprised of two contiguous quarter quarter sections 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 37	0 0	4 3	160-acre spacing; well location in center of SE 1/4 of each quarter section with 150 topographic tolerance. (Order 21-62) Coral Creek Unit not subject to spacing rules. Redelineated. (Order 7-63) Field size reduced. (Order 57-85) Water disposal into Madison. (Order 68-62) Waterflood of Silurian-Ordovician approved in 1966. (Order 35-66) Water from Minnelusa.
LOOKOUT BUTTE, EAST Red River	4	0	0	22 delineated spacing units with wells located no closer than 660' to the unit boundary with 175' topographic tolerance. (Order 87-85)
LORING UNIT Bowdoin-Greenhorn-Phillips- Carlile	0	112	1	Federal Unit.
LORING, EAST Bowdoin-Greenhorn-Phillips- Carlile	0	80	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)
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	69	0	9	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.
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)
MACKAY DOME Greybull	3	0	1	Statewide.
MARIAS RIVER Bow Island	0	14	5	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	4 11	0 0	1 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.
MASON LAKE NORTH Amsden	0	0	1	Statewide.
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)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
McCABE, EAST Winnipegosis	1	0	0	Statewide.
McCABE, WEST Red River	1	0	0	Single spacing unit. (Order 49-84)
McCOY CREEK Red River	1	0	0	Statewide.
MEANDER Sunburst	2	0	0	40-acre spacing units; well location to be no closer than 330' to the unit boundaries. (Order 30-82)
MEDICINE LAKE Silurian-Ordovician Winnipegosis Mission Canyon	7 1 0	0 0 0	1 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	2	Statewide. Enhanced recovery approved EPA 86.
MIDDLE BUTTE Bow Island Dakota Second White Specks	0 0 0	2 1 1	0 1 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	3	0	0	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 Swift-Sunburst Sawtooth Sunburst	0 0 0 2	13 1 0 1	0 0 1 7	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	2	1	0	Statewide.
MONARCH Madison Silurian-Ordovician	0 17	0 0	2 5	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)
MONDAK, WEST Devonian Madison Silurian-Ordovician	1 28 9	0 0 0	0 1 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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
MOSSER DOME Mosser Sand	22	0	1	Spacing waived. Future development requires administrative approval of the Board. (Order 27-62)
MT. LILLY Bow Island Madison Swift	0 0 0	1 1 1	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)
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 Sunburst	2 1	0 0	0 0	Statewide.
NOHLY Nisku Ratcliffe Red River	4 3 3	0 0 0	0 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)
NOHLY, SOUTH Red River	1	0	0	Single spacing unit. (Order 35-83)
NORTH FORK Madison	6	0	0	Statewide.
O'BRIENS COULEE Blackleaf Bow Island Bow Island-Spike Second White Specks	0 0 0 0	1 12 1 1	1 3 0 0	Statewide.
OLD SHELBY AND AREA Bow Island Swift-Sunburst	0 0	3 24	0 3	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 superceded by Order 90-83. Field extensions. (Orders 15-84, 83-84, 98-84, 116-84, 33-85, 60-86)
OLJE Mission Canyon Red River	1 1	0 0	0 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	3	0	0	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)
OTTER CREEK Red River	0	0	1	Single spacing unit. (Order 51-83)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
OUTLOOK				
Duperow	1	0	0	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)
Interlake	2	0	1	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.
Nisku	1	0	0	
Winnipegosis	5	0	1	
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	2	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)
PENNEL				
Silurian-Ordovician	185	0	14	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.
PETE CREEK				
Sunburst	1	0	0	Statewide.
PHANTOM				
Sunburst	0	3	3	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	1	One well per spacing unit to be located no closer than 660' to the exterior boundaries of three certain spacing units. (Order 65-78)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
PINE				
Madison	1	0	2	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.
Silurian-Ordovician	104	0	23	
PIPELINE				
Red River	1	0	0	Statewide
PLENTYWOOD				
Winnipeg	0	0	1	Statewide.
PLEVNA				
Judith River	0	0	23	1,200' from quarter section line; 2,400' from other wells in same lease or unit; 75' topographic tolerance. (Orders 34-54, 4-57, and Order 34-54 corrected)
POLICE COULEE				
Bow Island	0	7	1	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	377	0	33	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.
Sun River	13	0	2	
PONDERA COULEE				
Madison	3	0	0	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance. (Order 5-62)
Sun River	5	0	0	
POPLAR, EAST				
Heath	1	0	1	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.)
Madison	43	1	7	
Nisku	0	1	0	
POPLAR, NORTHWEST AND AREA				
Charles	33	0	6	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 or 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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
PRAIRIE DELL Bow Island-Dakota-Sunburst-Swift	0	51	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, and 60-86.
PRAIRIE DELL, WEST Swift	0	1	0	Statewide
PRAIRIE ELK Charles C	2	0	0	Statewide.
PRICHARD CREEK Bow Island Sunburst Swift	0 3 1	1 0 0	1 3 0	Well locations subject to administrative approval. Unitized as to Sunburst for water injection. (Order 7-73)
PRONGHORN Red River	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 Madison Red River	4 5 8	0 0 0	0 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)
RABBIT HILLS Sawtooth	1	0	0	Statewide
RABBIT HILLS, NORTHEAST Sawtooth	5	0	0	Statewide.
RABBIT HILLS, SOUTHWEST Sawtooth	1	0	1	Statewide.
RAGGED POINT Tyler	4	0	6	40-acre spacing units; 75' topographic tolerance. (Order 8-59) Spacing waived for Tyler "A" sand reservoir within Tyler "A" Sand Unit except no well can be closer than 660' to unit boundary. (Order 35-65) A waterflood project on the Tyler "A" sand was commenced in February 1966, using Third Cat Creek water. (Order 35-65)
RAGGED POINT, SOUTHWEST Tyler	10	0	2	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	15	0	160-acre spacing. Wells no closer than 990' to unit boundary. Commingling after administrative approval. (Order 29-73)
RATTLER BUTTE Tyler	6	0	1	Statewide.
RATTLESNAKE BUTTE Amsden Cat Creek	6 2	0 0	2 0	Statewide. SWD approved EPA 86.
RATTLESNAKE COULEE Bow Island Sunburst	0 1	0 1	2 0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
RAYMOND				
Duperow	0	1	0	320-acre spacing units. Wells 660' from spacing unit boundary. (Order 38-72) Gas Storage. (Order 50-78) Field extension-new pool designation. (Order 35-79) Order 50-78 amended by Order 60-79. Field enlargement. (Orders 31-80 and 128-80) Field reduction. (Order 135-81)
Mississippian	8	0	1	
Nisku	1	0	0	
Red River	2	0	0	
Winnipegosis	2	0	0	
				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	2	0	0	Single spacing unit. (Order 94-82)
RAYMOND, NORTHEAST				
Nisku	0	0	1	160-acre spacing units. Wells 660' from spacing unit boundary. (Order 12-74)
REAGAN				
Madison	52	5	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	14	0	0	Statewide. Produced water disposed into the Dakota formation. (Order 10-A-82)
Red River	2	0	0	
RED BANK, SOUTH				
Red River	1	0	0	Statewide.
RED CREEK				
Cut Bank-Madison	17	0	4	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.
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	0	2	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)
Judith River	0	1	2	
RED WATER				
Duperow	1	0	0	Statewide.
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				
Winnipegosis	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	3	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)
Winnipegosis	1	0	0	
				Excess water injected into Dakota sand. (Order 23-A-67) SWD approved EPA-85.
RESERVE, SOUTH				
Red River	1	0	0	Single spacing unit. (Order 33-86)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
RICHEY AND AREA Charles	2	0	1	Statewide. Original 80-acre spacing revoked. (Order 11-73)
RICHEY, EAST Charles	0	0	1	Statewide.
RICHEY, SOUTHWEST Interlake	1	0	5	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	3 27 5	0 0 0	0 0 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	2	0	0	320-acre spacing unit; well to be located no closer than 660' from exterior boundary. (Order 22-79)
ROSCOE DOME Lakota	3	0	0	Statewide. Steam injection into Greybull and Lakota formations. (Order 40-82)
ROSEBUD Tyler	5	0	1	Statewide.
ROYALS Dawson Bay	1	0	0	Statewide.
RUDYARD Eagle Sawtooth	0 0	2 5	0 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)
RUNAWAY Madison	1	0	0	Statewide.
RUSH MOUNTAIN Gunton Red River	1 1	0 0	0 0	Statewide. Dual zone completion in discovery well. Commingling approved. (Order 17-85) Excess water injected into Dakota Sand. (Order 5-A-71)
SAGE CREEK Blackleaf Bow Island Second White Specks	0 0 0	2 1 15	0 0 2	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)
SALT LAKE Nisku Ratcliffe	3 1	0 0	0 0	Statewide. Produced water disposed into Nesson (Madison) formation. (Order 61-A-80)
SAND CREEK Interlake-Red River	4	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.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
SANDWICH Swift	0	1	0	320-acre spacing unit. Well located no closer than 990' to spacing unit boundaries. (Order 17-77)
SATURN Ratcliffe	1	0	0	Statewide.
SAWTOOTH MOUNTAIN & AREA Eagle Judith River	0 0	29 4	3 1	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)
SECOND CREEK Duperow Red River	0 4	0 0	1 0	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.
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 Judith River	0 0	24 2	41 3	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)
SHOTGUN CREEK Ratcliffe	3	0	0	Statewide.
SIDNEY Madison Red River	23 2	0 0	2 0	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.
SIDNEY, EAST Madison	9	0	0	Statewide.
SINGLETREE Winnepegosis	2	0	0	Single spacing unit. (Order 78-84) Produced water disposed into Dakota formation. (Order 59-A-80)
SIOUX PASS Mission Canyon Red River	1 7	0 0	1 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.
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).

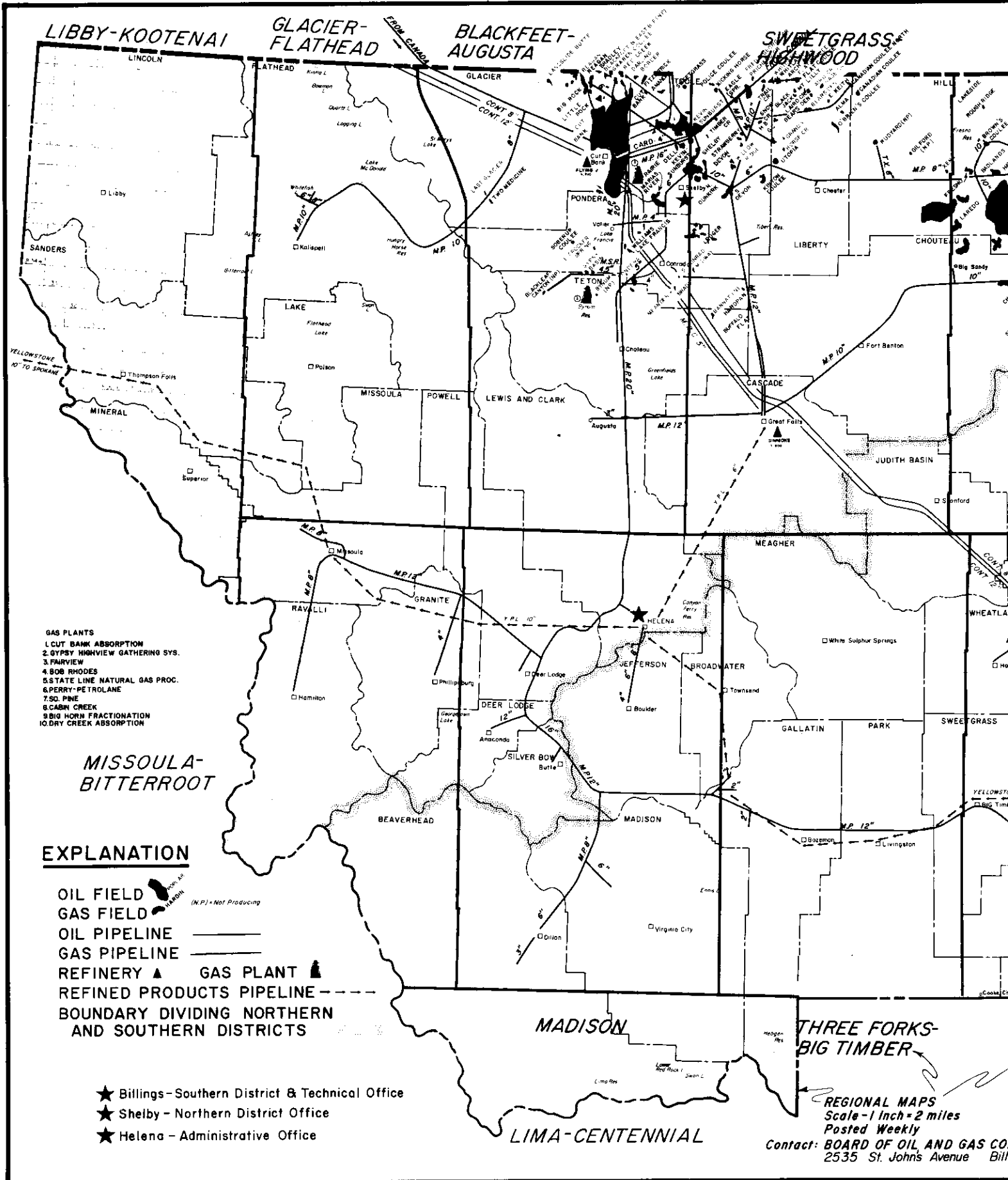
Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
SIOUX PASS, NORTH				
Duperow	0	0	2	320-acre spacing units with well locations at least 660' from unit boundary. (Order 12-75)
Madison	4	0	0	Commingling approved. (Order 17-76) Field amendments. (Order 8-79, 10-81, and 13-86)
Red River	15	0	2	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)
SIOUX PASS, SOUTH				
Red River	2	0	0	Statewide.
SNOOSE COULEE				
Bow Island	0	8	0	640-acre spacing units; location no closer than 990' from spacing unit boundary. Bow Island and shallower formations. (Order 18-77)
SNYDER				
Tensleep	3	0	1	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	10	0	1	
SOAP CREEK, EAST				
Tensleep	3	0	0	Statewide.
SOBERUP COULEE				
Bow Island	0	1	0	Statewide.
SOUTH FORK				
Mission Canyon	0	0	1	Statewide.
Red River	3	0	0	
SPRING COULEE				
Sawtooth	0	3	0	Statewide.
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	8	0	8	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	1	0	Statewide.
Burwash	0	1	0	
STUDHORSE				
Stensvad	4	0	1	Statewide.
Tyler	1	0	0	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
SUMATRA				
Amsden-Tyler	78	0	73	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 CSTSU, 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	60	0	320-acre spacing units; (Order 36-75) amended to enlarge field and provide that spacing units may run north-south or east-west with permitted wells to be no closer than 990' to section or quarter section lines. (Order 11-78) Field boundaries extended by Orders 32-78, 92-79, 66-80 and 55-81. All previous Swanson Creek orders are amended to allow one additional well in each existing 320-acre spacing unit that shall be drilled in a manner that there be no more than one well per quarter section and located no closer than 660' to the quarter section boundaries. (Order 28-82)
SWEETGRASS				
Sunburst	0	2	0	Single spacing unit. (Order 121-82)
TARGET				
Madison	10	0	2	Single spacing unit for Mission Canyon/Ratcliffe formations. (Order 18-82) Amendment to Order 18-82 for field enlargement and establishing 160-acre spacing units with permitted well locations to be no closer than 660' 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.
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	5	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	5	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	243	57	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.
Judith River	0	1	1	

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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	2	0	0	Statewide. Water injection into lower Tyler formation. (Order 57-82)
TRAIL CREEK Bow Island Swift-Sunburst	0 0	5 3	0 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)
TULE CREEK Nisku Devonian	4 1	0 0	0 0	160-acre spacing units with permitted well anywhere within 1,320' square in center of each unit. (Orders 26-62, 6-65, 11-67, 5-77, 52-86) 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.
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 Duperow	1 1	0 0	0 0	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 Judith River	0 0	0 1	1 0	Statewide.
TWO WATERS Bakken Red River	2 1	0 0	0 0	Statewide.
UTOPIA Bow Island Sawtooth Swift	0 0 26	4 2 0	0 0 1	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) 40-acre spacing units for Swift formation; location to be in center of quarter-quarter section with no more than 100' topographic tolerance. (Order 9-78) Order 9-78 amended. Spacing units shall consist of 1 well per quarter-quarter section no closer than 330' from the section boundary. (Order 96-81)
VANDALIA Bowdoin Green Horn Phillips	0 0 0	7 1 1	0 0 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)
VAUX Interlake Madison Red River Stonewall	2 16 5 1	0 0 0 0	0 1 0 0	Statewide. Single spacing unit with commingling approved for Madison group. (Order 63-83) Single spacing unit for Mississippian Bakken formation. (Order 20-86) Produced water injected into the Dakota formation. (Order 44-A-79 and 109-A-82)
VOLT Madison Nisku	1 5	0 0	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. Excess produced water is disposed into Judith River. (Orders 3-65, 37-A-74)

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
WAGON BOX Tyler	1	0	1	Statewide.
WAGON TRAIL Red River	0	0	1	Statewide. Single 320-acre spacing unit. (Order 2-83)
WAKEA Red River-Interlake Winnepogosis	5 2	0 0	0 0	Two 320-acre spacing units. (Order 84-83) Field enlarged. (Order 34-84)
WEED CREEK Amsden	2	0	0	Statewide.
WELDON Kibbey	0	0	3	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 Sunburst	0 4	1 1	0 1	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.
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)
WHITWATER, EAST Bowdoin-Greenhorn-Phillips	0	8	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 Madison Swift-Sunburst	5 0 73	26 1 9	7 0 7	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)
WHITLASH, WEST Bow Island Swift-Sunburst	0 6	1 4	0 5	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)
WILLIAMS Bow Island	0	18	1	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 Burwash Dakota Duperow Sunburst Swift	0 4 0 0 0 0	12 0 1 1 1 1	2 0 0 1 0 0	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)
WILLOW RIDGE, SOUTH Sunburst	1	3	0	Statewide.

Field, Formation	Oil	Gas	Shut-in	Spacing Regulations, Field Rules, and Remarks
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.
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	5	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	7	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 Red River	1 0	0 0	0 3	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)
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)
YATES Red River Mission Canyon	1 1	0 0	0 0	320-acre spacing units; well locations as specified for the Duperow and Red River formations that may be dually completed. (Order 92-81) Single spacing unit for Ratcliffe/Mission Canyon formations. (Order 22-86)



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

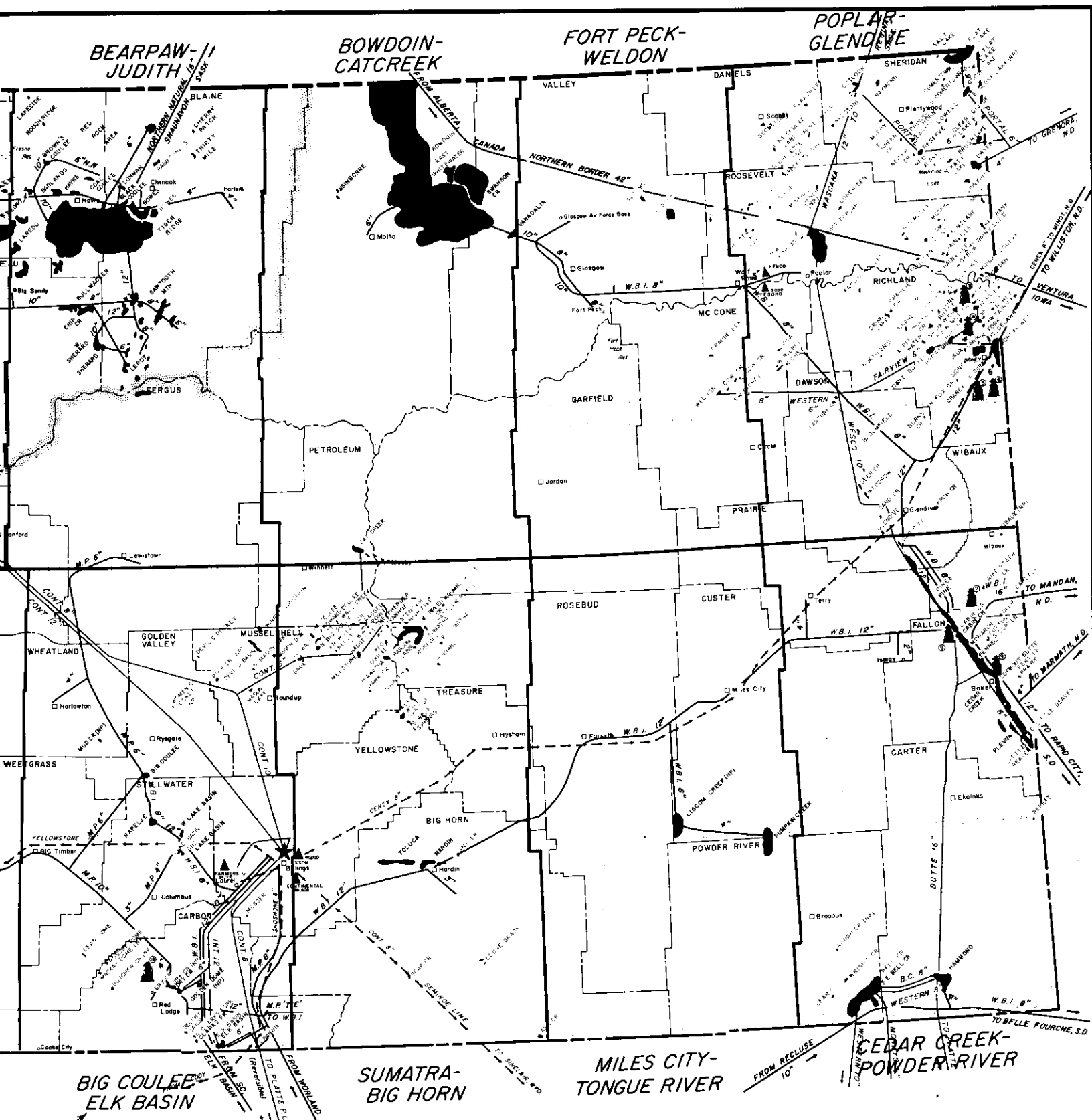
MISSOULA-BITTERROOT

EXPLANATION

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

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

REGIONAL MAPS
 Scale - 1 Inch = 2 miles
 Posted Weekly
 Contact: BOARD OF OIL AND GAS COMMISSIONERS
 2535 St. Johns Avenue Billings, MT



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

Oil and Gas Conservation
 1000 North Broadway
 Billings, Mont. 59102

1986
 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 BB)
											PRIMARY	SECONDARY		
1.	Anvil	Nisku	Roosevelt	1981	10,900	40	1.50	14	17	34	94	—	160	1,30
2.	Anvil	Ratcliffe	Roosevelt	1982	8,990	36	1.35	22	11	50	6	—	320	2,22
3.	Anvil	Red River	Roosevelt	1978	12,600	47	1.63	26	14	32	13	—	2,560	30,15
4.	Ash Creek	Shannon	Big Horn	1952	4,500	34	1.00	14	22	42	25	5	200	2,77
5.	Bainville	Siluro-Ord	Roosevelt	1969	12,402	44	—	—	—	—	—	—	960	—
6.	Bainville II	Red River	Roosevelt	1981	12,700	42	1.20	40	10	35	4	—	640	10,75
7.	Bainville North	Ratcliffe	Roosevelt	1980	8,800	30	—	13	14	52	—	—	160	—
8.	Bainville North	Red River	Roosevelt	1979	12,400	43	1.55	40	9	32	3	—	2,240	27,44
9.	Bainville North	Winnipegosis	Roosevelt	1979	11,400	44	1.60	35	7	20	7	—	960	9,12
10.	Bainville West	Red River	Roosevelt	1978	8,500	34	1.50	12	6	45	11	—	960	1,96
11.	Bannatyne	Swift	Teton	1927	1,500	27	1.05	39	15	43	2	—	800	19,71
12.	Bears Den	Swift	Liberty	1924	2,300	39	1.08	20	9	35	24	—	280	2,35
13.	Bell Creek	Muddy	Powder River	1967	4,400	36	1.11	10	26	23	55	28	8,240	115,29
14.	Beanblossom	Lower Tyler	Garfield	1985	4,562	—	—	—	—	—	—	—	480	—
15.	Benrud East	Nisku	Roosevelt	1962	7,500	46	1.37	22	15	30	35	—	640	8,37
16.	Benrud Northeast	Nisku	Roosevelt	1964	7,400	46	1.40	23	16	30	45	—	160	2,28
17.	Big Muddy Creek	Madison	Roosevelt	1981	8,500	44	—	14	—	—	—	—	320	—
18.	Big Muddy Creek	Red River	Roosevelt	1975	11,900	48	1.72	11	14	36	22	—	1,280	5,65
19.	Big Wall	Amsden	Musselshell	1953	2,500	19	1.01	17	16	35	26	—	280	3,80
20.	Big Wall	Lower Tyler	Musselshell	1948	3,000	31	1.02	22	17	40	32	1	1,220	20,82
21.	Big Wall	Upper Tyler	Musselshell	1948	3,000	—	—	—	—	—	—	—	480	—
22.	Black Diamond	Red River	Wibaux	1981	11,310	27	1.31	4	40	10	28	—	640	5,45
23.	Blackfoot	Devonian, Madison	Glacier	1957	3,500	30	1.10	15	15	35	14	22	360	3,71
24.	Blackleaf Canyon	Sun River	Teton	1958	6,323	—	—	—	—	—	—	—	320	—
25.	Bloomfield	Dawson Bay	Dawson	1984	10,500	41	1.38	15	2	25	74	—	160	20
26.	Bloomfield	Interlake, Red River	Dawson	1983	10,650	43	1.32	13	4	—	18	—	640	1,95
27.	Blue Mountain	Red River	Wibaux	1984	11,949	31	1.25	20	18	15	1	—	320	6,07
28.	Border Old	Sunburst	Toole	1929	2,400	31	1.08	22	15	30	16	2	360	5,92
29.	Bowes Sawtooth	Sawtooth	Blaine	1949	3,300	19	1.02	32	12	31	14	—	3,760	75,77
30.	Box Canyon	Red River	Richland	1980	11,800	46	—	11	—	—	—	—	640	—
31.	Bradley	Madison, Sunburst	Glacier	1959	3,500	26	1.25	6	11	49	52	—	240	5,60
32.	Brady	Sunburst	Pondera	1942	1,500	34	1.01	10	12	30	7	—	400	2,51
33.	Breed Creek	Tyler	Roosevelt	1976	4,900	32	1.15	20	15	37	29	—	400	5,11
34.	Brorson	Madison	Richland	1954	9,600	32	1.40	40	5	40	20	—	1,760	11,77
35.	Brorson	Red River	Richland	1968	12,600	48	1.70	20	10	35	42	—	960	5,65
36.	Brorson South	Madison	Richland	1978	9,000	42	—	52	—	—	—	—	160	—
37.	Brorson South	Red River	Richland	1968	12,600	48	1.70	20	12	30	5	—	960	7,31
38.	Brush Lake	Red River	Sheridan	1969	11,400	40	1.50	30	14	35	12	—	2,240	31,67
39.	Burget East	Madison	Roosevelt	1981	9,000	—	—	36	—	—	—	—	640	—
40.	Burget East	Red River	Roosevelt	1980	12,800	45	—	55	—	—	—	—	320	—
41.	Burns Creek	Red River	Dawson	1972	11,400	39	1.25	14	14	40	6	—	640	4,61
42.	Cabin Creek U 2	Madison	Fallon	1956	7,300	33	1.13	25	11	30	50	—	2,260	29,87
43.	Cabin Creek U 1	Siluro-Ord	Fallon	1953	9,000	33	1.20	50	13	30	15	11	13,600	400,00
44.	Canal	Madison	Richland	1977	9,200	33	1.30	47	2	41	28	—	480	1,57
45.	Canal	Red River	Richland	1970	12,700	47	2.07	58	8	40	18	—	320	3,31
46.	Carlyle	Red River	Wibaux	1978	10,700	37	1.30	12	12	27	9	—	640	4,00
47.	Cat Creek West	1 & 2 Cat	Petroleum	1920	1,100	52	1.10	51	21	19	8	5	1,400	85,67
48.	Cat Creek Mosby	Swift	Petroleum	1945	1,700	52	1.10	25	18	40	19	1	880	16,77
49.	Cat Creek East	Ellis	Petroleum	1920	1,200	52	1.10	6	22	40	66	8	880	4,97
50.	Charlie Creek	Duperow, Nisku	Richland	1976	9,900	42	1.60	12	6	35	91	—	320	7
51.	Charlie Creek East	Red River	Richland	1980	11,900	45	—	27	—	—	—	—	640	—
52.	Clear Lake	Madison	Sheridan	1978	7,600	33	1.15	10	5	30	46	—	320	7
53.	Clear Lake	Nisku	Sheridan	1979	9,000	43	1.53	31	11	27	2	—	320	4,00
54.	Clear Lake	Red River	Sheridan	1977	11,200	42	1.65	32	18	35	6	—	2,560	45,00
55.	Clear Lake South	Red River	Sheridan	1984	11,500	38	1.39	10	23	21	2	—	640	6,40
56.	Colored Canyon	Red River	Sheridan	1978	11,300	40	1.40	18	13	28	5	—	1,920	17,92
57.	Comertown	Nisku	Sheridan	1983	10,672	36	1.30	13	17	39	9	—	640	5,11
58.	Comertown	Ratcliffe	Sheridan	1981	6,807	30	1.20	16	26	—	2	—	480	12,90
59.	Comertown	Red River	Sheridan	1980	10,500	30	1.30	19	10	38	28	—	800	5,67
60.	Comertown South	Red River	Sheridan	1984	11,000	—	—	—	—	—	—	—	960	—
61.	Cottonwood	Red River	Richland	1984	12,870	—	—	5	—	—	—	—	320	—
62.	Cow Creek East	Kibby	McCone	1971	6,300	35	1.05	15	15	—	10	—	1,600	26,50
63.	Crane	Devonian	Richland	1979	11,900	47	1.65	20	12	35	18	—	1,280	9,37
64.	Crooked Creek	Dakota	Yellowstone	1985	6,098	—	—	—	—	—	—	—	320	—
65.	Cupton	Red River	Fallon	1955	9,600	38	1.25	40	12	16	5	—	2,240	56,00
66.	Cut Bank	Total Production	Glacier, Toole	1932	2,900	31	1.09	18	15	35	40	6	27,360	341,70
67.	Dagmar	Red River	Sheridan	1976	11,300	37	1.65	22	16	35	5	—	1,280	13,37
68.	Dagmar North	Madison	Sheridan	1983	7,952	—	—	24	—	—	—	—	160	—
69.	Deadmans Coulee	Nisku	Roosevelt	1981	7,500	45	1.10	10	11	40	10	—	640	2,90
70.	Deer Creek	Interlake	Dawson	1956	9,400	43	1.20	38	7	30	40	—	480	5,90
71.	Devils Pocket	Heath	Musselshell	1920	2,030	—	—	—	—	—	—	—	320	—
72.	Diamond Point	Red River	Roosevelt	1976	11,900	47	—	26	—	—	—	—	640	—

SUMMARY OF PRODUCING O

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTORY%	
											PRIMARY	SECONDARY
73.	Divide	Mission Canyon, Ratcliffe	Sheridan	1979	7,900	33	1.35	25	7	42	13	—
74.	Dry Creek	Greybull	Carbon	1981	5,579	—	—	—	—	—	—	—
75.	Dry Creek	Eagle, Virgelle	Carbon	1929	2,600	65	1.01	60	15	65	47	—
76.	Dwyer Unit	Charles	Sheridan	1960	8,000	37	1.32	38	11	56	73	21
77.	Dwyer Non Unit	Ratcliffe	Sheridan	1960	8,000	—	—	—	—	—	—	—
78.	Dwyer	Red River	Sheridan	1982	11,552	35	—	—	—	—	—	—
79.	Eagle	Duperow	Richland	1980	10,696	40	—	24	—	—	—	—
80.	Eagle	Madison	Richland	1977	8,900	32	1.22	15	9	35	7	—
81.	Eagle	Red River	Richland	1982	12,448	38	—	—	—	—	—	—
82.	Elk Basin	Frontier	Carbon	1915	1,400	—	—	—	—	—	—	—
83.	Elk Basin	Madison	Carbon	1942	5,300	28	1.12	224	12	9	3	—
84.	Elk Basin	Tensleep	Carbon	1942	5,000	29	1.16	124	11	10	22	—
85.	Enid North	Red River	Richland	1979	11,800	47	1.75	8	7	34	16	—
86.	Dutch John Coulee	Sunburst	Toole	1985	2,040	—	—	—	—	—	—	—
87.	Fairview	Madison	Richland	1981	9,520	34	1.60	45	4	51	15	—
88.	Fairview Non Unit	Red River	Richland	1965	12,700	47	1.70	35	11	28	22	—
89.	Fairview NW Unit	Red River	Richland	1965	12,700	—	—	—	—	—	—	—
90.	Fairview East	Red River	Richland	1981	12,800	48	1.50	24	13	32	5	—
91.	Fairview West	Madison	Richland	1980	9,200	37	—	60	3	—	—	—
92.	Fertile Prairie	Red River	Fallon	1952	9,300	29	1.20	6	14	27	28	—
93.	Fishhook	Red River	Sheridan	1980	11,200	41	1.28	10	10	31	17	—
94.	Flat Coulee Non U	Swift	Liberty	1933	2,900	37	1.10	18	21	35	15	4
95.	Flat Coulee Unit	Swift	Liberty	1933	2,900	37	1.10	18	21	35	5	—
96.	Flat Lake	Madison, Nisku	Sheridan	1982	8,042	—	—	—	—	—	—	—
97.	Flat Lake	Ratcliffe	Sheridan	1964	6,500	33	1.26	14	15	45	25	—
98.	Flat Lake South	Ratcliffe	Sheridan	1966	6,500	32	1.26	9	12	45	31	—
99.	Flaxville	Madison	Daniels	1982	7,200	—	—	—	—	—	—	—
100.	Fort Gilbert	Madison	Richland	1981	9,200	35	1.30	30	6	55	9	—
101.	Fort Gilbert	Red River	Richland	1970	12,500	48	1.89	42	12	20	7	—
102.	Four Mile Creek	Red River	Richland	1975	12,500	47	1.50	35	15	35	7	—
103.	Four Mile Creek W	Red River	Richland	1976	12,500	45	1.30	15	13	40	5	—
104.	Fox Creek	Stonewall	Richland	1978	8,900	29	1.20	71	3	30	4	—
105.	Frannie	Tensleep	Carbon	1929	2,700	27	1.02	29	19	16	27	—
106.	Fred & George Creek	Sunburst	Toole	1963	2,600	39	1.20	31	27	30	15	14
107.	Frog Coulee	Red River	Richland	1979	11,000	49	1.42	15	18	35	7	—
108.	Froid South	Red River	Roosevelt	1970	12,100	48	1.55	12	17	25	9	—
109.	Gage	Amsden	Musselshell	1944	6,000	38	1.32	16	18	36	49	—
110.	Gas City	Red River, Madison	Dawson	1955	8,900	38	1.28	25	12	35	25	5
111.	Girard	Bakken	Richland	1966	11,839	40	1.15	18	10	8	5	—
112.	Glendive	Siluro-Ord	Dawson	1952	8,900	38	1.24	147	8	35	13	—
113.	Golden Dome	Greybull, Frontier	Carbon	1953	6,000	—	—	—	—	—	—	—
114.	Goose Lake	Ratcliffe	Sheridan	1962	7,000	34	1.20	40	16	55	4	3
115.	Goose Lake West	Red River	Sheridan	1981	11,500	39	—	29	—	—	—	—
116.	Gossett	Stoney Mountain	Richland	1983	12,331	—	—	11	—	—	—	—
117.	Graben Coulee	Swift, Cut Bank, Madison	Glacier	1961	2,900	34	1.10	15	12	30	8	—
118.	Grandview East	Swift	Liberty	1978	2,500	30	—	8	17	55	—	—
119.	Green Coulee	Red River	Sheridan	1981	11,100	32	1.40	18	15	56	7	—
120.	Gumbo Ridge	Tyler	Roosevelt	1975	4,900	32	1.10	16	13	35	18	7
121.	Gunsight	Madison	Roosevelt	1980	9,550	36	—	—	—	—	—	—
122.	Gypsy Basin	Madison	Pondera, Teton	1979	3,250	36	—	10	—	—	—	—
123.	Hardscrabble Creek	Red River	Richland	1981	12,550	46	1.36	7	15	30	4	—
124.	Hay Creek	Mission Canyon	Richland	1969	9,600	39	1.15	40	5	—	6	—
125.	Hay Creek	Interlake	Richland	1969	12,600	46	1.90	53	12	30	6	—
126.	Hiawatha	Tyler	Musselshell	1967	5,000	33	1.15	34	12	25	21	—
127.	High Five	Tyler	Rosebud	1976	5,600	33	1.15	20	20	—	12	—
128.	Highview	Madison	Pondera	1967	3,200	31	1.10	8	17	32	6	—
129.	Honker	Red River	Sheridan	1980	11,110	39	1.40	30	14	58	3	—
130.	Intake II	Red River	Richland	1981	12,400	43	1.20	20	13	30	5	—
131.	Ivanhoe	Tyler	Musselshell	1956	4,100	33	1.08	29	15	20	30	—
132.	Jim Coulee Unit	Tyler	Musselshell	1971	3,700	33	1.10	37	15	33	3	13
133.	North Jim Coulee	Tyler	Musselshell	1972	3,748	32	1.60	37	15	33	20	—
134.	Katy Lake	Red River	Sheridan	1984	11,523	—	—	11	—	—	—	—
135.	Katy Lake North	Mission Canyon	Sheridan	1981	8,056	29	—	30	18	54	—	—
136.	Katy Lake North	Red River	Sheridan	1979	11,300	46	1.42	19	15	30	18	—
137.	Keg Coulee Tyler SU	Tyler	Musselshell	1960	4,600	33	1.00	19	14	32	29	3
138.	North Keg Coulee	Tyler	Musselshell	1964	4,600	33	1.15	14	12	32	24	—
139.	Kelley	Tyler	Musselshell	1966	4,400	33	1.15	50	13	30	14	—
140.	Kevin Sunburst	Total Production	Toole	1922	1,500	32	1.08	7	20	35	25	3
141.	Kincheloe Ranch W	Tyler	Rosebud	1979	5,500	35	—	—	—	—	—	—
142.	Laird Creek Unit	Swift	Liberty	1968	2,800	39	1.13	14	16	50	12	2
143.	Lambert	Red River	Richland	1980	12,200	44	—	7	13	40	—	—
144.	Lamesteer Creek	Red River	Wibaux	1984	10,228	39	1.30	8	11	33	3	—

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	
145.	Landslide Butte	Madison, Sun River	Glacier	1967	4,700	41	—	24	—	—	—	—	480
146.	Leary	Muddy	Powder River	1969	5,800	41	1.15	7	17	33	30	—	400
147.	Kevin Sunburst	Nisku	Toole	1984	2,950	—	—	—	—	—	—	—	160
148.	Little Beaver	Red River Non Unit	Fallon	1957	8,300	—	—	—	—	—	—	—	1,120
149.	Little Beaver Unit	Red River	Fallon	1952	8,300	29	1.29	37	12	35	5	23	3,840
150.	Little Beaver East	Red River	Fallon	1954	8,300	30	1.50	24	13	35	37	—	1,600
151.	Little Phantom	Sunburst	Toole	1977	2,716	—	—	—	—	—	—	—	40
152.	Little Wall Creek	Tyler, Stensvad	Musselshell	1970	3,700	33	1.10	40	15	33	13	—	1,120
153.	Lodge Grass	Tensleep	Big Horn	1964	6,520	—	—	—	—	—	—	—	640
154.	Lone Butte	Richland	Richland	1974	12,400	45	1.70	14	11	30	20	—	640
155.	Lonetree Creek	Red River	Richland	1970	12,500	47	1.86	19	11	30	20	—	3,200
156.	Long Creek	Charles	Roosevelt	1976	6,500	38	—	30	—	20	—	—	160
157.	Long Creek West	Nisku	Roosevelt	1977	7,700	39	—	24	18	20	—	—	320
158.	Lookout Butte	Madison	Fallon	1961	8,900	—	—	—	—	—	—	—	1,280
159.	Lookout Butte	Total Production	Fallon	1961	8,900	33	1.15	15	15	25	33	19	7,360
160.	Lowell	Red River	Sheridan	1979	11,300	35	—	7	8	45	—	—	960
161.	Lustre	Madison	Valley	1982	7,200	33	1.19	27	16	45	5	—	7,680
162.	Lustre North	Ratcliffe	Valley	1983	6,150	—	—	—	—	—	—	—	960
163.	McKay Dome	Greybull	Stillwater	1960	3,700	12	1.00	56	10	20	2	—	160
164.	Mason Lake	Amsden, Cat Creek	Musselshell	1964	4,200	47	1.10	12	15	43	12	—	1,040
165.	Lobo	Red River	Roosevelt	1986	11,410	—	—	—	—	—	—	—	640
166.	McCabe	Ratcliffe	Roosevelt	1973	8,700	37	1.50	20	13	40	6	—	480
167.	McCabe West	Red River	Roosevelt	1984	12,260	—	—	—	—	—	—	—	320
168.	McCoy Creek	Red River	Sheridan	1985	10,370	—	—	—	—	—	—	—	160
169.	Medicine Lake	Siluro-Ord	Sheridan	1984	11,319	44	1.55	38	9	35	3	—	1,920
170.	Medicine Lake	Mission Canyon	Sheridan	1979	8,500	—	—	—	—	—	—	—	320
171.	Melstone	Tyler	Musselshell	1948	4,400	34	1.09	25	15	30	26	—	800
172.	Mineral Bench	Charles	Roosevelt	1965	9,269	36	—	20	—	96	—	—	160
173.	Missouri Breaks	Red River	Roosevelt	1982	12,000	45	1.74	15	15	30	15	—	320
174.	Mondak West	Duperow	Richland	1979	10,600	—	—	—	—	—	—	—	320
175.	Mondak West	Madison	Richland	1976	9,200	30	1.30	100	4	60	5	—	10,880
176.	Mondak West	Siluro-Ord	Richland	1976	12,200	48	1.64	45	10	43	12	—	2,560
177.	Monarch Non Unit	Siluro-Ord	Fallon	1958	8,400	—	—	—	—	—	—	—	1,920
178.	Monarch Unit	Siluro-Ord	Fallon	1958	8,400	32	1.00	31	7	35	3	4	2,720
179.	Mustang	Red River	Richland	1979	12,500	47	1.41	17	12	—	6	—	960
180.	Midfork	Charles	Valley	1985	7,174	—	—	—	—	—	—	—	480
181.	Neisser Creek	Red River	Sheridan	1982	10,900	46	2.00	15	17	21	12	—	320
182.	Ninemile	Nisku	Toole	1985	3,450	—	—	—	—	—	—	—	120
183.	Nohly	Red River	Richland	1972	12,900	46	1.43	27	10	40	21	—	960
184.	Nohly	Nisku	Richland	1983	10,700	38	1.30	15	11	39	95	—	640
185.	Nohly Area	Ratcliffe	Richland	1984	9,444	32	1.23	17	10	57	13	—	320
186.	Nohly South	Red River	Richland	1983	12,981	43	1.65	19	21	34	2	—	320
187.	North Fork	Madison	Richland	1977	9,500	35	1.37	18	3	70	35	—	960
188.	Olie	Red River	Sheridan	1985	11,429	38	1.20	15	15	35	4	—	320
189.	Ollie	Red River	Fallon	1980	10,200	36	—	56	—	—	—	—	160
190.	Otis Creek & South	Red River	Richland	1970	12,700	48	1.76	23	12	35	12	—	1,280
191.	Outlook	Duperow	Sheridan	1964	8,200	39	1.50	15	10	25	45	—	640
192.	Outlook	Nisku	Sheridan	1958	9,170	40	—	20	—	—	—	—	160
193.	Outlook	Interlake	Sheridan	1956	9,000	38	1.12	20	8	30	79	—	960
194.	Outlook	Winnipegosis	Sheridan	1971	9,000	39	1.12	18	8	30	18	—	800
195.	Outlook West	Winnipegosis	Sheridan	1958	9,100	39	1.12	16	8	30	28	—	480
196.	Oxbow	Red River	Roosevelt	1978	12,600	47	1.50	18	12	45	24	—	320
197.	Palomino	Nisku	Roosevelt	1980	7,500	48	1.15	39	16	20	18	—	640
198.	Pelican	Red River	Sheridan	1979	11,400	47	1.30	19	6	26	12	—	320
199.	Pennei	Siluro-Ord	Fallon	1955	7,000	31	1.10	38	3	30	43	9	26,400
200.	Pete Creek	Sunburst	Toole	1977	2,700	—	—	—	—	—	—	—	40
201.	Pine	Red River	Fallon, Wibaux	1952	8,400	34	1.17	32	12	30	23	23	16,480
202.	Pondera	Madison, Sun River	Pondera	1927	2,100	34	1.20	15	16	31	19	—	13,720
203.	Pondera Coulee	Madison, Sun River	Pondera	1978	2,500	30	1.20	10	15	50	8	—	160
204.	Poplar East	Madison	Roosevelt	1952	5,500	40	1.10	25	11	30	19	—	18,070
205.	Poplar East	Heath	Roosevelt	1969	4,900	38	1.10	8	11	50	23	—	480
206.	Pipeline	Red River	Sheridan	1986	10,300	—	—	—	—	—	—	—	160
207.	Poplar Northwest	Madison	Roosevelt	1952	6,300	40	1.10	16	10	45	12	—	4,800
208.	Prairie Elk	Charles	McCone	1965	6,100	32	1.00	5	12	35	9	—	320
209.	Prichard Creek	Sunburst	Toole	1970	2,700	—	—	—	—	—	—	—	200
210.	Pronghorn	Red River	Sheridan	1983	10,580	40	1.30	17	13	54	3	—	1,280
211.	Putnam	Interlake	Richland	1969	11,900	41	1.75	16	9	30	14	—	960
212.	Putnam	Madison	Richland	1978	9,500	34	1.42	92	6	35	3	—	800
213.	Putnam	Red River	Richland	1969	11,900	41	1.75	16	9	30	24	—	4,160
214.	Rabbit Hills	Sawtooth	Blaine	1972	4,000	21	1.15	12	18	16	10	—	800
215.	Ragged Point	Tyler	Musselshell	1956	3,600	32	1.11	13	14	32	22	10	1,440
216.	Rainbow	Red River	Richland	1982	12,500	46	2.20	28	14	45	5	—	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
											PRIMARY	SECONDARY	
217.	Rattler Butte	Tyler	Rosebud	1975	5,300	35	1.10	25	12	60	44	—	240
218.	Rattlesnake Butte	2nd Cat Creek	Petroleum	1984	2,732	28	1.10	26	21	70	16	—	200
219.	Raymond	Duperow	Sheridan	1979	8,360	46	—	—	—	—	—	—	160
220.	Raymond	Charles	Sheridan	1972	6,800	32	1.09	10	10	—	11	—	1,760
221.	Raymond	Red River	Sheridan	1972	10,000	39	1.42	33	12	10	5	—	960
222.	Raymond	Winnipegosis	Sheridan	1972	9,300	42	1.17	40	5	27	28	—	960
223.	Raymond	Nisku	Sheridan	1972	7,900	50	1.40	22	9	—	11	—	640
224.	Raymond North	Red River	Sheridan	1982	10,151	37	1.34	4	14	20	13	—	320
225.	Reagan	Madison	Glacier	1947	3,700	38	1.10	11	12	30	83	14	2,600
226.	Red Bank	Madison	Roosevelt	1980	13,000	31	2.00	16	14	11	3	—	5,120
227.	Red Bank	Red River	Roosevelt	1980	13,000	45	2.00	20	18	8	3	—	960
228.	Red Bank South	Red River	Roosevelt	1981	13,000	47	—	20	17	29	—	—	320
229.	Red Creek Unit	Cut Bank, Madison	Glacier	1958	2,600	31	1.08	20	19	30	10	2	1,410
230.	Red Water East	Red River	Richland	1983	12,025	47	1.40	20	11	40	8	—	320
231.	Redstone	Winnipegosis	Sheridan	1958	9,400	42	1.10	34	8	30	11	—	320
232.	Refuge	Red River	Sheridan	1979	11,300	44	1.69	13	5	30	36	—	320
233.	Repeat	Red River	Carter	1956	8,600	23	1.02	25	10	30	26	—	160
234.	Reserve	Red River	Sheridan	1966	11,100	39	1.30	18	6	30	25	—	1,600
235.	Reserve	Winnipegosis	Sheridan	1967	10,193	—	—	—	—	—	—	—	160
236.	Richey	Charles	McCone	1951	7,000	39	1.20	25	8	30	15	—	1,440
237.	Ridgelawn	Madison	Richland	1977	8,900	35	1.18	54	3	50	24	—	4,000
238.	Ridgelawn	Red River	Richland	1980	12,500	49	1.90	15	12	35	29	—	1,600
239.	RipRap Coulee	Ratcliffe	Roosevelt	1975	8,800	34	1.30	14	14	45	17	—	800
240.	Riverbend	Red River	Richland	1981	12,000	44	1.42	12	12	30	20	—	320
241.	Rocky Point	Red River	Roosevelt	1978	11,800	49	1.80	19	14	47	12	—	640
242.	Rosebud	Tyler	Musselshell	1974	5,000	34	1.24	32	14	48	17	—	200
243.	Royals	Dawson Bay	Dawson	1980	11,700	43	1.93	46	5	32	16	—	320
244.	Salt Lake	Nisku, Ratcliffe	Sheridan	1970	7,900	43	1.50	23	11	35	8	—	640
245.	Sand Creek	Red River	Dawson	1959	9,000	39	—	25	10	—	—	—	1,040
246.	Saturn	Ratcliffe	Daniels	1985	6,470	—	—	—	—	—	—	—	160
247.	Second Creek	Red River	Richland	1972	12,700	46	1.50	30	7	40	14	—	1,600
248.	Sheepherder	Tyler	Musselshell	1974	5,000	32	—	—	—	2	—	—	120
249.	Shotgun Creek	Ratcliffe	Roosevelt	1984	9,234	—	—	20	—	—	—	—	480
250.	Rush Mountain	Red River	Sheridan	1968	12,000	39	1.62	14	10	33	40	—	320
251.	Sidney	Madison	Richland	1976	9,000	34	1.30	60	4	50	6	—	7,040
252.	Sidney	Red River	Richland	1981	12,500	41	1.70	30	11	45	6	—	640
253.	Sidney East	Madison	Richland	1980	9,300	37	1.40	274	5	75	2	—	1,280
254.	Singletree	Winnipegosis	Roosevelt	1978	12,000	46	—	28	10	40	—	—	320
255.	Sioux Pass	Siluro-Ord	Richland	1973	12,700	47	1.70	40	9	35	14	—	2,560
256.	Sioux Pass East	Red River	Richland	1975	12,600	47	1.80	10	16	30	3	—	640
257.	Sioux Pass Middle	Red River	Richland	1976	12,600	45	1.40	17	16	25	7	—	1,920
258.	Sioux Pass North	Madison	Richland	1974	12,000	45	1.60	44	12	40	3	—	960
259.	Sioux Pass North	Red River	Richland	1974	12,000	45	1.60	44	12	40	5	—	4,480
260.	Sioux Pass South	Madison	Richland	1982	12,700	46	—	30	—	—	—	—	640
261.	Soap Creek	Tensleep	Big Horn	1952	1,900	20	1.05	20	15	35	15	—	1,200
262.	Soap Creek East	Tensleep	Big Horn	1977	3,400	17	1.02	15	15	35	17	—	120
263.	South Fork	Red River	Richland	1976	12,400	46	1.00	41	11	—	1	—	960
264.	Spring Lake	Bakken	Richland	1982	10,800	42	1.50	17	8	20	9	—	320
265.	Spring Lake	Red River	Richland	1963	11,700	51	2.00	9	12	30	43	—	640
266.	Spring Lake South	Red River	Richland	1981	11,900	50	1.62	38	10	40	3	—	320
267.	Spring Lake West	Bakken	Richland	1980	11,660	—	—	—	—	—	—	—	320
268.	Stampede	Red River	Richland	1980	11,800	45	1.31	40	8	40	4	—	640
269.	Stensvad	Tyler	Musselshell	1958	5,500	33	1.17	25	14	20	40	14	960
270.	Studhorse	Stensvad	Garfield	1984	4,805	32	1.05	15	16	50	5	—	640
271.	Sumatra	Tyler	Rosebud	1949	4,500	32	1.16	30	19	35	26	7	5,520
272.	Sunny Hill	Red River	Sheidan	1978	12,000	45	1.38	25	17	50	2	—	640
273.	Sunny Hill West	Red River	Sheridan	1983	12,330	50	1.55	14	13	28	6	—	320
274.	Target	Madison	Rosevelt	1981	10,500	32	—	50	11	55	—	—	1,760
275.	Three Buttes	Red River, Gunton	Richland	1978	12,400	43	—	12	—	—	—	—	960
276.	Tippy Buttes	Tyler	Musselshell	1980	5,000	32	—	38	—	—	—	—	40
277.	Tule Creek	Nisku	Roosevelt	1960	7,500	46	1.41	25	15	30	47	—	1,280
278.	Tule Creek East	Nisku	Roosevelt	1964	7,500	43	1.91	30	18	30	42	—	320
279.	Tule Creek South	Dakota	Roosevelt	1964	7,600	43	1.40	8	12	30	46	—	480
280.	Two Waters	Bakken	Richland	1982	9,950	—	—	42	—	—	—	—	320
281.	Two Waters	Red River	Richland	1980	11,500	43	1.40	16	8	30	9	—	320
282.	Utopia	Swift	Liberty	1977	2,300	33	1.15	17	16	40	8	—	920
283.	Vaux	Interlake, Stonewall	Richland	1981	12,100	45	—	—	—	25	—	—	640
284.	Vaux	Madison	Richland	1977	8,800	34	1.20	40	4	43	24	—	2,560
285.	Vaux	Red River	Richland	1976	12,400	48	1.60	24	14	45	8	—	2,240
286.	Volt	Charles	Roosevelt	1965	6,000	—	—	—	—	67	—	—	40
287.	Volt	Nisku	Roosevelt	1964	7,300	47	1.40	14	20	30	42	—	800
288.	Wakea	Red River	Sheridan	1983	11,133	42	1.57	6	14	31	23	—	1,600

SUMMARY OF PRODUCING OIL FIELD

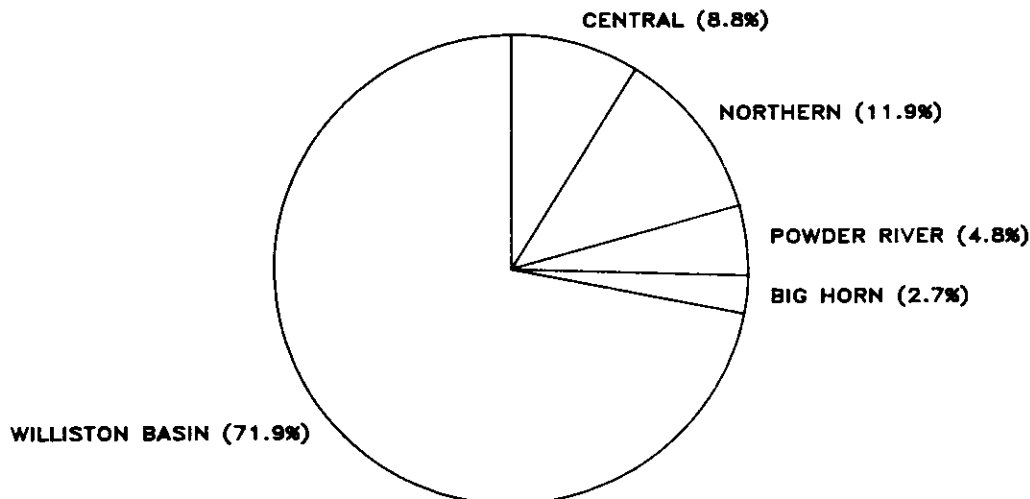
LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY %API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	OIL
											PRIMARY	SECONDARY		
289.	Wakea	Winnipegosis	Sheridan	1985	10,179	44	1.42	12	14	30	58	—	320	2,05
290.	West Butte	Sunburst	Toole	1968	2,300	40	1.10	10	24	23	14	—	160	2,08
291.	Whitlash	Swift	Liberty	1927	2,600	38	1.13	15	16	20	13	—	3,120	41,12
292.	Willow Creek North	Tyler	Musselshell	1970	4,000	32	1.20	12	13	54	43	—	160	74
293.	Willow Ridge	Burwash	Toole	1975	1,400	40	1.20	8	16	40	8	—	160	79
294.	Wills Creek South	Red River	Fallon	1964	8,700	33	1.20	12	18	35	29	—	480	4,35
295.	Winnett Junction	Tyler	Musselshell	1973	2,500	28	1.10	12	18	30	10	26	240	2,55
296.	Wolf Springs	Amsden	Yellowstone	1955	6,200	30	1.07	11	6	23	62	—	2,080	7,66
297.	Wolf Springs South	Amsden	Yellowstone	1984	6,100	31	—	12	—	—	—	—	960	—
298.	Woodrow	Red River	Dawson	1952	9,600	42	1.30	25	14	35	16	—	560	7,60
299.	Wrangler	Red River	Sheridan	1979	11,200	30	1.00	6	10	—	43	—	640	2,97
300.	Wrangler North	Red River	Sheridan	1979	10,000	41	1.40	18	16	45	4	—	320	2,80
301.	Wright Creek	Muddy	Powder River	1969	4,800	35	1.10	5	26	48	16	—	400	1,90
302.	Yates	Red River	Wibaux	1982	11,245	33	1.30	21	10	45	1	—	640	4,41

Miscellaneous Small Fields
STATE TOTALS

1986 OIL PRODUCTION

BY REGION

(27,164,630 Bbls Produced)



WILLISTON

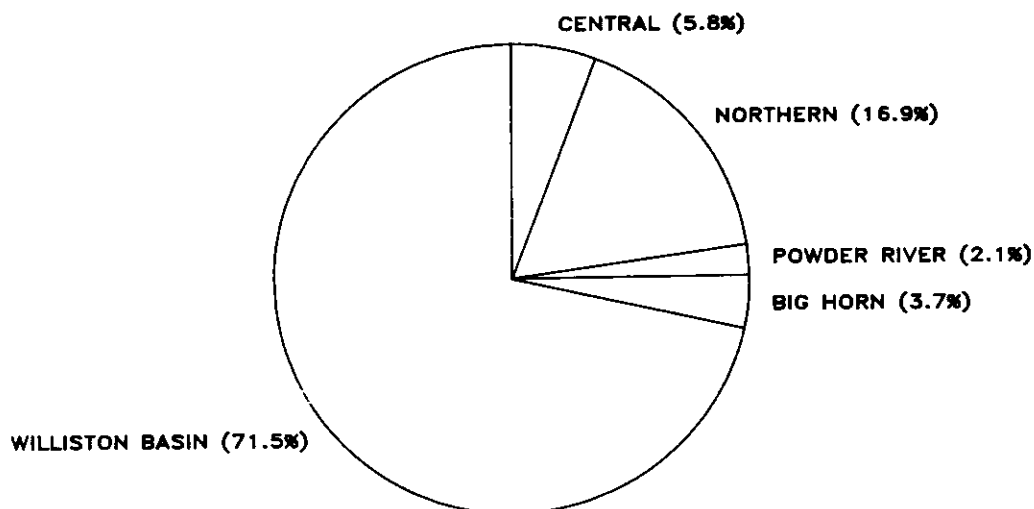
Y OF PRODUCING OIL FIELDS—1986

POROSITY (%)	% WATER	RECOVERY FACTOR%		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1986 PRODUCTION		CUMULATIVE PRODUCTION 1-86 (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			
14	30	58	—	320	2,056	6,425	1,200	—	1,200	3,750	313	251,936	690	496	704	289.
24	23	14	—	160	2,085	13,031	290	—	290	1,813	181	5,346	15	279	11	290.
16	20	13	—	3,120	41,127	13,181	5,300	—	5,300	1,699	113	66,826	183	5,090	210	291.
13	54	43	—	160	742	4,637	320	—	320	2,000	167	2,514	7	311	9	292.
16	40	8	—	160	794	4,962	60	—	60	375	47	2,603	7	39	21	293.
18	35	29	—	480	4,357	9,077	1,250	—	1,250	2,604	217	24,219	66	1,030	220	294.
18	30	10	26	240	2,559	10,662	250	670	920	3,833	319	39,250	108	761	159	295.
6	23	62	—	2,080	7,664	3,684	4,740	—	4,740	2,279	207	8,049	22	4,636	104	296.
—	—	—	—	960	—	—	—	—	—	—	—	268,524	736	616	789	297.
14	35	16	—	560	7,603	13,576	1,220	—	1,220	2,179	87	11,175	31	1,118	102	298.
10	—	43	—	640	2,979	4,654	1,270	—	1,270	1,984	331	48,362	132	360	910	299.
16	45	4	—	320	2,809	8,778	100	—	100	313	17	5,621	15	94	6	300.
26	48	16	—	400	1,907	4,767	300	—	300	750	150	8,945	25	267	33	301.
10	45	1	—	640	4,411	6,892	50	—	50	78	4	4,968	14	19	31	302.
												287,000	787	42		
												27,164,630	74,423	180,643		

OIL RESERVES

BY REGION

(187,008,000 Barrels)



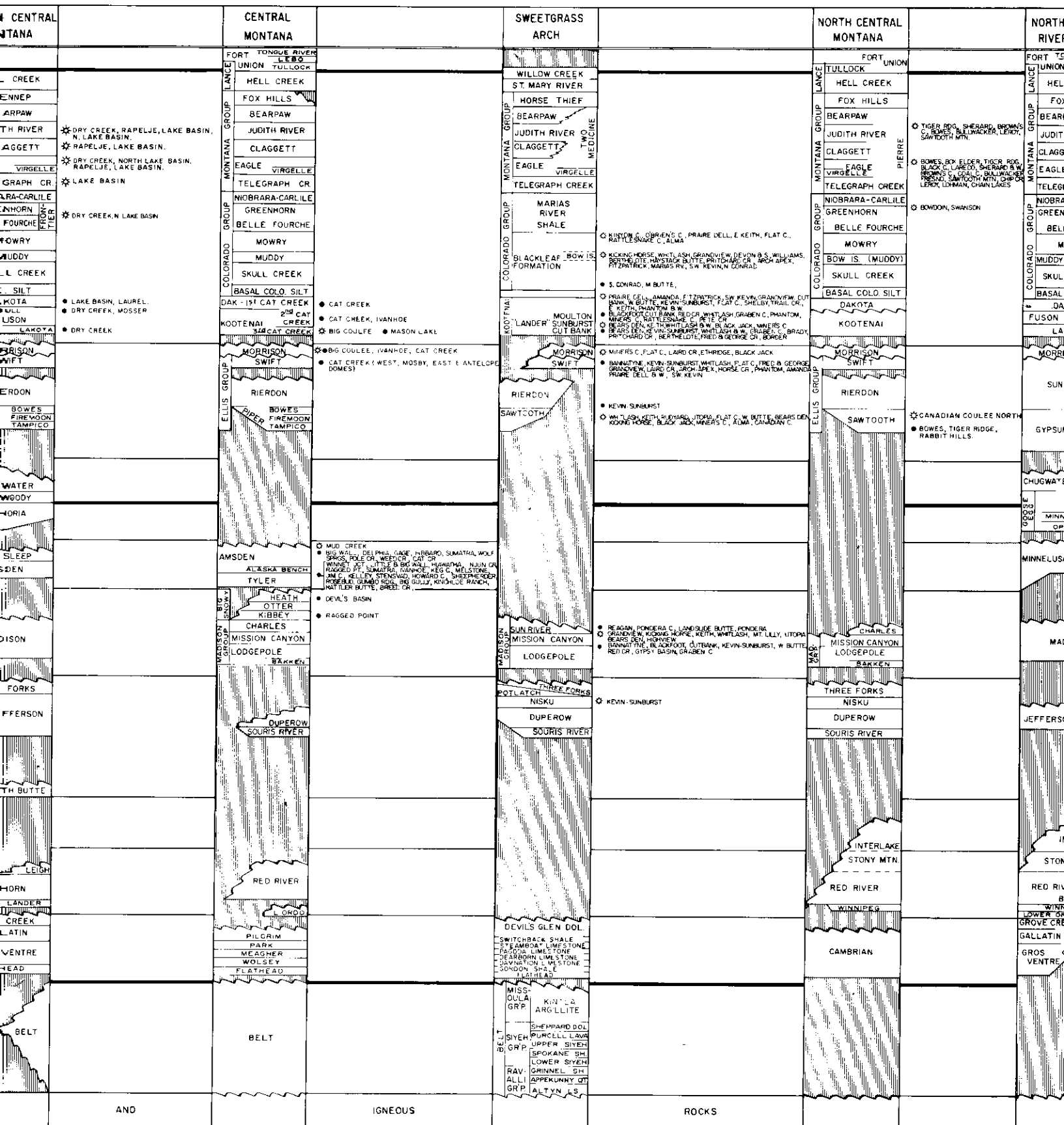
GENERALIZED

ERA	PERIOD		SOUTHWESTERN MONTANA	CRAZY MOUNTAIN BASIN	BIG HORN BASIN		SOUTH CENTRAL MONTANA	
CENOZOIC	TERTIARY		BEAVERHEAD	TONGUE RIVER	FORT UNION			
		MESOZOIC	CRETACEOUS	UPPER	TULLOCK	HELL CR.	LENNEP		HELL CREEK
LENNEP	BEARPAW				MEETEETSE		LENNEP	
JUDITH RIVER	JUDITH RIVER				MESA VERDE		JUDITH RIVER	★ DRY CREEK, RAPELJE, LAKE BASIN, N. LAKE BASIN.
CLAGGETT	CLAGGETT				CODY SHALE		CLAGGETT	★ RAPELJE, LAKE BASIN.
EAGLE VIRGELLE	EAGLE VIRGELLE				FRONTIER		EAGLE VIRGELLE	★ DRY CREEK, NORTH LAKE BASIN, RAPELJE, LAKE BASIN.
TELEGRAPH CR.	TELEGRAPH CR.			FRONTIER		TELEGRAPH CR.	★ LAKE BASIN	
NIORRARA-CARLILE	NIORRARA-CARLILE			FRONTIER		NIORRARA-CARLILE		
MOWRY	MOWRY			FRONTIER		MOWRY		
MUDDY	MUDDY			FRONTIER		MUDDY		
SKULL CR.	SKULL CR.			FRONTIER		SKULL CREEK	★ DRY CREEK, N. LAKE BASIN	
LOWER	KOOTENAI	DAK. SILT	DAK. SILT	DAK. SILT		DAK. SILT		
		DAKOTA	DAKOTA	DAKOTA		DAKOTA	● LAKE BASIN, LAUREL	
JURASSIC	UPPER	MORRISON	MORRISON	MORRISON		MORRISON	● DRY CREEK, MOSSER.	
		SWIFT	SWIFT	SWIFT		SWIFT	● DRY CREEK	
		RIERDON	RIERDON	RIERDON		RIERDON		
		SAWTOOTH	PIPER	GYPSON SPRING		PIPER		
	MIDDLE	SAWTOOTH	CHUGWATER	CHUGWATER	CHUGWATER		CHUGWATER	
			DINWOODY	DINWOODY	DINWOODY		DINWOODY	
	LOWER ?	PHOSPHORIA	PHOSPHORIA	PHOSPHORIA	PHOSPHORIA		PHOSPHORIA	
PALEOZOIC	PERMIAN	PHOSPHORIA	PHOSPHORIA	PHOSPHORIA	PHOSPHORIA		PHOSPHORIA	
	PENNSYLVANIAN	AMSDEN	AMSDEN	AMSDEN	AMSDEN		AMSDEN	
	MISSISSIPPIAN	MADISON	MADISON	MADISON	MADISON		MADISON	
	DEVONIAN	JEFFERSON	JEFFERSON	JEFFERSON	JEFFERSON		JEFFERSON	
SILURIAN	BEARTOOTH BUTTE	BEARTOOTH BUTTE	BEARTOOTH BUTTE	BEARTOOTH BUTTE		BEARTOOTH BUTTE		
ORDOVICIAN	BIG HORN	BIG HORN	BIG HORN	BIG HORN		BIG HORN		
CAMBRIAN	GROS VENTRE	GROS VENTRE	GROS VENTRE	GROS VENTRE		GROS VENTRE		
PROTEROZOIC	PRE-CAMBRIAN	BELT	BELT	BELT		BELT		
ARCHEOZOIC					METAMORPHIC		AND	

GENERALIZED STRATIGRAPHIC CORRELATION CHART

SHOWING PRODUCTIVE FORMATIONS IN MONTANA OIL AND GAS FIELDS *

* O. L. * GAS



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>FUSON (KOOTENAI)</p> <p>LAKOTA</p> <p>MORRISON</p> <p>SWIFT</p> <p>RIERDON</p> <p>SAWTOOTH</p> <p>CHUGWATER</p> <p>SPEARFISH</p> <p>MINNEKAHTA</p> <p>OPECHE</p> <p>TENSLEEP</p> <p>MINNELUSA</p> <p>AMSDEN</p> <p>MADISON</p> <p>JEFFERSON GROUP</p> <p>THREE FORKS</p> <p>NISKU</p> <p>DUPEROW</p> <p>SOURIS RIVER</p> <p>DAWSON BAY</p> <p>PRAIRIE EVAP</p> <p>WINNIPEG</p> <p>ASHERN</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> <ul style="list-style-type: none"> TIGER RIDGE, SHERARD, BROWN'S C, BOWES, BALDWIN, LEROY, SAWTOOTH MTN. BOWES, BOY ELDER, TIGER RIDGE, BLACK C, LAREDO, SHERARD, BROWN'S C, COAL C, SULLY, BROWN'S, SAWTOOTH MTN, CHIP, LEROY, LOMMAN, CHAIN LAKES BOWDON, SWANSON <ul style="list-style-type: none"> ASH CR. LISCOM CR., PANKIN CR. HARDON HAMMOND BELL CR., HAMMOND BELL CR., WRIGHT CR., ROUGH CR., LEARY HAMMOND LODGE GRASS, SOAP CREEK, SNYDER SOAP CREEK. </p>		<p> <ul style="list-style-type: none"> <ul style="list-style-type: none"> ASH CR. LISCOM CR., PANKIN CR. HARDON HAMMOND BELL CR., HAMMOND BELL CR., WRIGHT CR., ROUGH CR., LEARY HAMMOND LODGE GRASS, SOAP CREEK, SNYDER SOAP CREEK. </p>		<p>CEGAR CREEK, PLEVNA</p> <p>CEGAR CREEK</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>SILURIAN</p> <p>ORDOVICIAN</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>PALEOZOIC</p> <p>SILURIAN</p> <p>ORDOVICIAN</p> <p>CAMBRIAN</p> <p>PRE-CAMBRIAN</p> <p>PROTEROZOIC</p> <p>ARCHEOZOIC</p>

*SOME FIELDS SHOWN ARE DEPLETED OR NO LONGER PRODUCTIVE