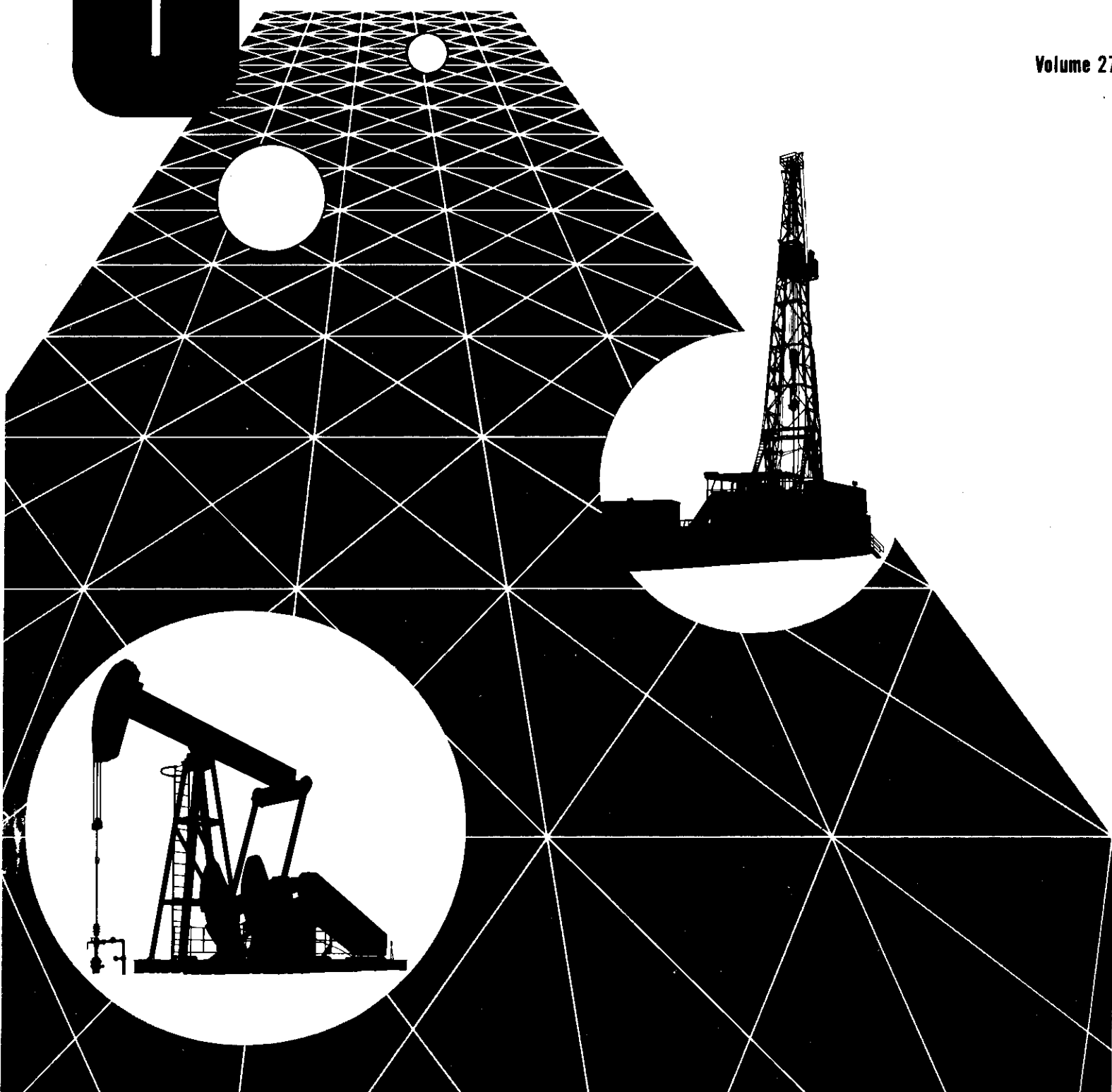


MONTANA

OIL & GAS

Annual
Review
1983

Volume 27



DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
OF THE STATE OF MONTANA

Oil and Gas Conservation Division

Ted Schwinden, Governor



ANNUAL REVIEW FOR THE YEAR 1983

Relating to

OIL AND GAS

Volume 27

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Annual Review for the Year 1983 Volume 27

ACTIVITY REVIEW—MONTANA 1983

Total natural and associated gas withdrawals in Montana were up from 50.9 billion cubic feet in 1982 to 52.4 billion cubic feet in 1983. Although natural gas production was down by 3.1 billion cubic feet, associated gas production was up by a substantial 4.6 billion cubic feet, for an overall net withdrawal increase of 1.5 billion cubic feet.

Oil production for 1983 was down at 29.7 million barrels as compared to 30.9 million barrels for 1982. Due to natural depletion, there was a moderate drop in production from most areas throughout the state, with the Williston Basin of eastern Montana showing the greatest decline.

Drilling activity continues to adjust from the record high of 1981 as both wildcat and development locations are being drilled on a more selective basis. There were 523 wells drilled in Montana in 1983, the lowest number since 1971. However, the total 204 wildcats drilled resulted in 25 oil and 16 gas completions, and 319 development wells included 160 oil and 55 gas producers.

Montana's petroleum reserve potential continues to attract industry interest. A total of 128 Seismograph crews operated in Montana in 1983. This, and the increasing number of industry personnel studying and evaluating the data available at the Board's technical library in the Billings office, strongly indicate that prospects are being defined for future drilling.

Geological well samples from more than 11,000 Montana wells are presently on file in the Billings office. Numbered index cards for each well's set of samples are filed by section, township and range to facilitate retrieval. Core chips from all available cores are also included with the samples. Selected well samples are boxed, indexed and filed on a current basis.

The Board of Oil & Gas Conservation is designated by 82-11-113 MCA as the Montana jurisdictional agency to administer the Federal Natural Gas Policy Act of 1978 for state and fee lands. For each of the five years, 1979 through 1983, the Act has been in effect, the Board's Administrator and Geologist processed and made determinations on totals of 328, 273, 273, 298 and 195 N.G.P.A. applications. A summary of the 1983 Docket determinations is as follows: 167 qualified, 11 withdrawn, 4 pending additional documents, and 13 deferred until additional monthly production was available. Of the 195 N.G.P.A. (FERC) applications submitted in 1983, 61 were for new onshore well (Category 102-2 — 2.5 mile test), 16 new onshore reservoir (Category 102-4), 46 new onshore production well (Category 103), and 72 stripper well (Category 108).

A total of 103 orders were issued by the Board during the year. The greater portion of which included requests for drilling and spacing units, pooling of interests, unitizations, establishing field delineations and field spacing rules, exceptions to spacing rules and the inclusion of shallower and deeper pay zones into field rules; and 6 were administrative orders that regulate the disposal of produced water for the protection of fresh water resources.

**1983
SUMMARY OF YEAR ACTIVITIES**

OIL

	BBLs	BBLs OF OIL PER DAY
Oil Produced	29,665,289	81,275
Oil Imported From:		
Canada	15,584,082	
North Dakota	45,281	
Wyoming	<u>19,182,761</u>	
Total	34,812,124	95,376
Oil Exported	22,300,000	61,100

GAS

	GAS	MCF/DAY
Gas Withdrawals:		
Natural	41,203,122	
* Associated	<u>11,222,777</u>	
Total	52,425,899	143,633
Gas Imported From:		
Canada	3,904,661	
Dakotas	28,552,669	
Wyoming	<u>12,057,971</u>	
Total	44,515,301	121,960
Gas Exported To:		
Canada	135,643	
Dakotas	6,913,283	
Wyoming	4,697,453	
Midwest	<u>8,844,140</u>	
Total	20,590,519	56,412

* Note: This denotes produced; in previous years marketed was used.

FIVE YEAR SUMMARY

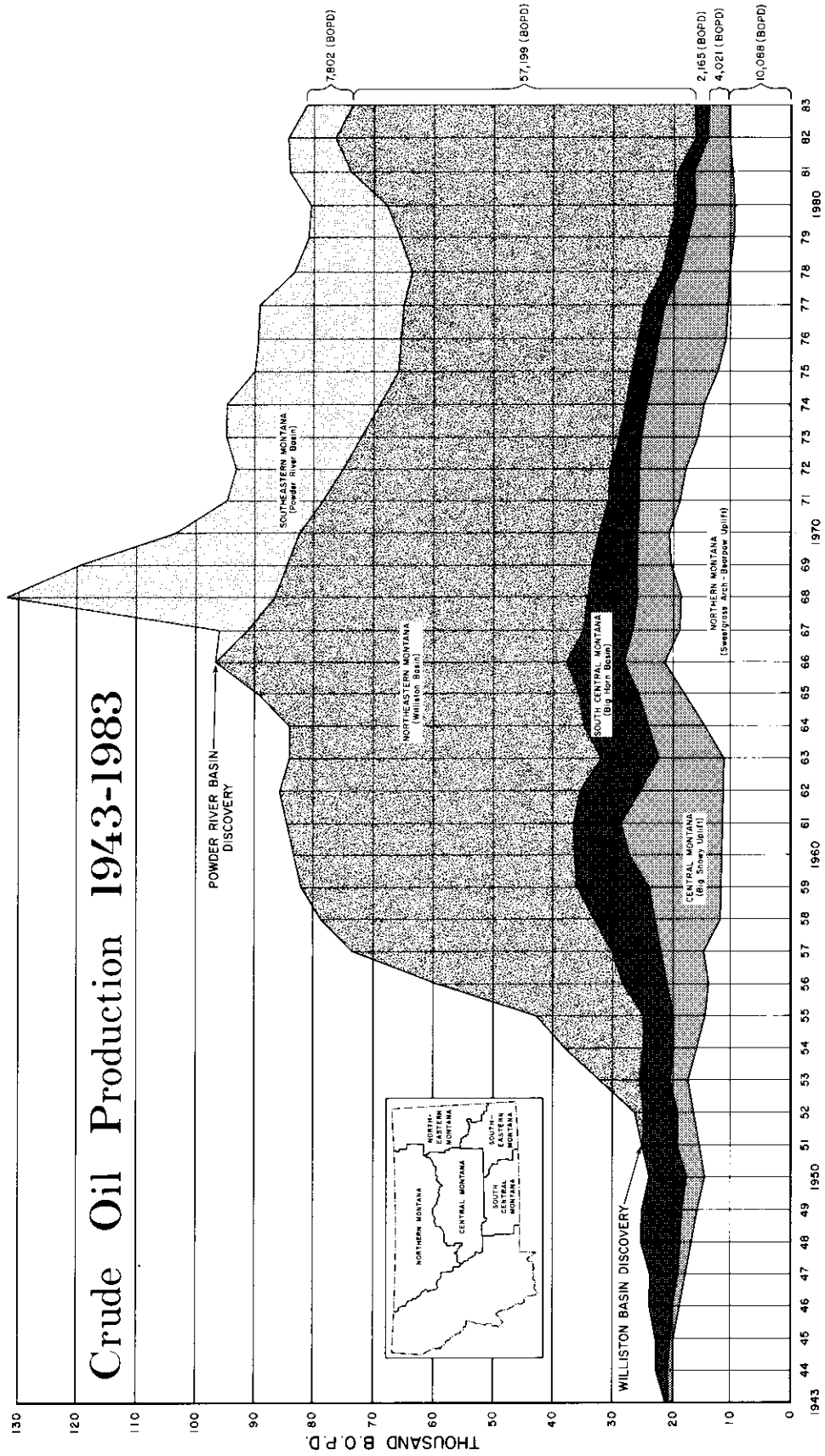
	1979	1980	1981	1982	1983
PRODUCTION IN BARRELS:					
Northern Montana	3,536,296	3,516,807	3,605,207	3,680,043	3,682,130
South Central	1,131,798	1,055,105	910,595	806,366	790,150
Central	3,029,397	2,612,091	2,583,690	1,496,895	1,467,855
Williston Basin	16,546,576	17,739,142	19,954,159	21,934,760	20,877,527
Powder River Basin	5,713,032	4,660,659	3,759,760	2,999,247	2,847,618
TOTAL	<u>29,957,099</u>	<u>29,583,804</u>	<u>30,813,411</u>	<u>30,917,311</u>	<u>29,665,280</u>
NUMBER OF PRODUCING WELLS:					
Northern Montana	2,089	2,212	2,280	2,455	2,693
South Central	112	124	132	138	150
Central	340	358	354	249	287
Williston Basin	886	996	1,080	1,360	1,446
Powder River Basin	165	148	174	212	222
TOTAL	<u>3,592</u>	<u>3,838</u>	<u>4,020</u>	<u>4,414</u>	<u>4,798</u>
AVERAGE DAILY PRODUCTION/WELL:					
Northern Montana	4.6	4.3	4.3	4.1	3.7
South Central	27.7	23.2	18.9	16.0	14.4
Central	24.4	19.9	20.0	16.5	14.0
Williston Basin	51.2	48.7	50.6	44.2	39.6
Powder River Basin	94.9	86.0	59.2	38.8	35.1
STATE AVG.	<u>22.8</u>	<u>21.1</u>	<u>21.0</u>	<u>19.2</u>	<u>16.9</u>
DEVELOPMENT WELLS DRILLED:					
Oil Wells	120	241	276	263	160
Gas Wells	235	203	133	145	55
Dry Holes	182	206	188	120	88
Service Wells				19	10
TOTAL	<u>537</u>	<u>650</u>	<u>597</u>	<u>547</u>	<u>313</u>
EXPLORATORY WELLS DRILLED:					
Oil Wells	35	30	126	64	25
Gas Wells	20	12	85	46	16
Dry Holes	211	260	341	248	156
Temporarily Abandoned					23
TOTAL	<u>266</u>	<u>302</u>	<u>552</u>	<u>358</u>	<u>220</u>
TOTAL WELLS DRILLED	803	952	1,149	905	533
TOTAL FOOTAGE DRILLED	3,147,341	4,032,032	5,797,770	4,342,410	2,529,666
AVERAGE FOOTAGE DRILLED	3,919	4,235	5,046	4,798	4,746

SUMMARY OF DRILLING BY COUNTIES - 1983

STATE OF MONTANA

County	Development			Wildcat			Service	Temp. Aband.	Total Wells	Footage Drilled	Average Depth
	Oil	Gas	Dry	Oil	Gas	Dry					
Beaverhead						2			2	23,960	11,980
Big Horn						4			4	30,220	7,555
Blaine	5		7			7			19	46,117	2,427
Carbon	2		1			5		1	9	15,446	1,716
Carter			1			6			7	18,634	2,662
Cascade							1	2	3	3,705	1,235
Chouteau			12		1	2			15	36,625	2,441
Custer						2			2	5,563	2,781
Daniels						3			3	25,717	8,572
Dawson	2		1		1	3			7	71,278	10,182
Fallon	10	4	1	1		2	1		19	128,991	6,789
Fergus		1	1			6			8	18,278	2,284
Garfield	1		1			3			5	30,357	6,071
Glacier	9		2	3	1	4	2	8	29	109,623	3,780
Golden Valley						2			2	8,239	4,119
Hill		2	2			5		1	10	23,594	2,359
Judith Basin						1			1	5,514	5,514
Lewis and Clark						2			2	19,820	9,910
Liberty	5		3		1		1		10	21,952	2,195
McCone			2						2	13,662	6,831
Meagher						2			2	22,016	11,008
Musselshell	2		5			10	1	2	20	91,302	4,565
Park						1			1	16,360	16,360
Petroleum	2		3			5		2	12	31,048	2,587
Phillips		30				3		1	34	58,440	1,718
Pondera	16	1	4		5	1	1		28	71,337	2,547
Powder River	2		2			4		1	9	47,513	5,279
Prairie	1								1	8,901	8,901
Richland	13		7	6		9	1	1	37	441,160	11,923
Roosevelt	10		2	2		12		2	28	235,380	8,406
Rosebud	8		6			9	1		24	125,719	5,238
Sheridan	14		5	5		11			35	358,456	10,241
Stillwater			1		1	3			5	13,400	2,680
Sweetgrass						2			2	9,292	4,646
Teton	14	2	3	3		7		1	30	71,457	2,381
Toole	37	15	15	5	6	7			85	146,432	1,722
Valley	6		1			8	1	1	17	109,955	6,467
Wibaux						1			1	11,113	11,113
Yellowstone	1					2			3	3,090	1,030
TOTALS	160	55	88	25	16	156	10	23	555	2,585,590	4,658

Crude Oil Production 1943-1983



GAS PRODUCTION DATA — 1983
14.73 PSIA @ 60°F

			1983 Marketed MCF
Field	County	Producing Formation	
Natural Gas			
Alma	Liberty	Bow Island	5,562
Amanda	Toole	Swift, Bow Island, Sunburst	180,627
Antelope Coulee	Toole	Blackleaf	41,727
Arch Apex	Toole	Bow Island, Sunburst	200,387
Badlands	Hill	Eagle	379,753
Battle Creek	Blaine	Eagle	2,401,903
Bears Den	Liberty	Madison, Bow Island	17,620
Bell Creek, Southeast	Powder River	Muddy	97,359
Big Coulee	Golden Valley, Stillwater	Lakota, Morrison, Cat Creek 3	551,143
Big Rock	Glacier	Blackleaf, Bow Island, Madison	894,029
Bills Coulee	Teton	Sunburst, Moulton, Kootenai	125,710
Black Butte	Hill	Eagle	213,123
Black Coulee	Blaine	Eagle	117,576
Blackfoot	Glacier	Dakota, Sunburst	265,295
Blackjack	Liberty	Second White Specks, Sunburst, Blackleaf, Bow Island	105,061
Blackleaf Canyon	Teton	Sun River	1,767,250
Border	Toole	Cut Bank, Sunburst	12,940
Bowdoin and Area	Phillips, Valley	Bowdoin, Phillips, Carlile-Greenhorn	5,772,494
Bowes	Blaine	Eagle	241,175
Browns Coulee	Hill	Eagle	14,577
Browns Coulee, East	Hill	Eagle, Judith River	73,319
Buffalo Flats	Chouteau	Bow Island, Roberts	350,759
Bullwacker and Area	Blaine, Chouteau	Eagle	781,310
Camp Creek	Chouteau	Eagle	7,544
Canadian Coulee and Area	Hill	Sawtooth	1,403
Canadian Coulee, North	Hill, Liberty	Sawtooth	296,603
Cedar Creek	Fallon	Judith River, Eagle	279,358
Chain Lakes	Hill	Eagle	15,484
Charlie Creek, North	Richland	Red River	158,942
Chinook, East	Blaine	Eagle	17,306
Chip Creek	Chouteau	Eagle	10,802
Clarks Fork, South	Carbon	Greybull	30,553
Coal Coulee	Hill	Eagle	35,297
Cut Bank	Glacier, Toole	Cut Bank, Blackleaf, Moulton, Sunburst, Bow Island	3,110,830
Devon, South	Toole	Bow Island	15,503
Dry Creek	Carbon	Virgelle, Frontier	476,310
Dry Creek, Middle	Carbon	Frontier	246,261
Dunkirk	Toole	Dakota, Bow Island	276,552
Dunkirk, North	Toole	Bow Island, Sunburst	129,108
Eagle Springs	Toole	Bow Island, Sunburst, Swift	52,525
Ethridge Area	Toole	Swift	92,602
Ethridge, North	Toole	Swift	12,175
Fitzpatrick Lake	Toole	Bow Island	144,587
Flat Coulee	Liberty	Sawtooth, Bow Island, Dakota, Swift	50,810
Flat Coulee, East	Liberty	Sawtooth	12,640
Fort Conrad	Toole, Pondera	Bow Island	78,401
Fort Conrad Area	Toole, Pondera	Bow Island	389,701
Fred and George Creek	Toole	Sunburst, Swift, Bow Island	22,612
Fresno and Area	Hill	Eagle	57,576
Galata	Toole	Bow Island	14,303
Gold Butte	Toole	Bow Island	1,869
Golden Dome	Carbon	Greybull	131,727
Grandview	Liberty	Bow Island, Sawtooth	55,788
Gypsy Basin	Pondera	Sunburst, Madison, Sawtooth	45,214
Hammond	Carter	Muddy	85,364
Hardin	Big Horn	Frontier	19,109
Hardpan and Area	Pondera, Chouteau	Bow Island	300,409
Havre	Hill, Blaine	Eagle	113,578
Haystack Butte	Liberty	Bow Island, Sunburst	14,818

GAS PRODUCTION DATA — 1983 (CONTINUED)
14.73 PSIA @ 60°F

Field	County	Producing Formation	1983 Marketed MCF
Highview	Pondera, Teton	Madison, Swift	3,437
Keith, East	Liberty	Second White Specks, Sawtooth	548,933
Keith Area	Liberty	Second White Specks, Sawtooth	195,219
Kevin-Sunburst	Toole	Dakota, Eagle, Madison, Swift, Nisku, Bow Island, Sunburst	987,219
Kevin-Sunburst Nisku	Toole	Swift, Nisku	54,704
Kevin, Southwest	Toole	Bow Island, Sunburst, Swift	317,330
Kicking Horse	Toole	Bow Island, Sunburst, Sawtooth	84,779
Kinyon Coulee	Toole	Bow Island	24,362
Kinyon Coulee, South	Toole	Bow Island	2,161
Kippen Area, East	Toole	Swift, Madison	2,253
Lake Basin	Stillwater	Claggett, Eagle-Virgelle, Telegraph Creek, Frontier, Eagle	273,834
Lake Basin, North	Stillwater	Eagle	35,157
Ledger	Pondera	Bow Island	433,674
Leroy	Blaine	Judith River, Eagle	750,425
Liscom Creek	Custer	Shannon	88,911
Little Creek Area	Chouteau	Eagle-Virgelle	31,520
Little Rock	Glacier	Bow Island, Blackleaf	101,040
Lohman	Blaine	Eagle	112,966
Loring, East	Phillips	Phillips, Bowdoin, Carlile-Greenhorn	1,095,650
Marias River	Toole, Pondera	Bow Island	108,630
Middle Butte	Toole, Liberty	Bow Island, Dakota, Second White Specks	62,138
Miners Coulee	Toole	Sunburst, Bow Island, Madison, Sawtooth	252,564
Mount Lily	Liberty	Madison, Swift, Bow Island	40,435
O'Briens Coulee	Liberty	Bow Island, Second White Specks, Blackleaf, Greenhorn	265,130
Phantom	Toole	Sunburst	27,905
Phantom, West	Toole	Sunburst	856,458
Plevna	Fallon	Judith River	1,911
Police Coulee	Toole	Bow Island	9,642
Prairie Dell	Toole	Bow Island, Swift, Dakota, Sunburst	761,316
Prairie Dell, West	Toole	Swift, Sunburst	16,454
Rapelje	Stillwater	Eagle, Eagle-Virgelle, Judith River, Claggett	106,166
Rattlesnake Coulee	Toole	Bow Island, Sunburst	26,483
Red Rock Area	Hill	Eagle, Judith River	98,017
Rocky Boy	Hill	Eagle	38,247
Rudyard	Hill	Sawtooth, Eagle	293,880
Sage Creek	Liberty	Blackleaf, 2nd White Specks	183,062
Sandwich	Liberty	Swift	1,238
Sawtooth Mountain	Blaine	Judith River, Eagle	562,708
Shelby	Toole	Bow Island, Sunburst, Swift	17,733
Shelby, Old	Toole	Bow Island, Dakota, Koot, Sunburst, Swift	237,813
Sherard and Area	Blaine, Chouteau	Judith River, Eagle	630,583
Snoose Coulee	Liberty	Bow Island	25,644
Soberup Coulee	Pondera	Bow Island	2,611
Spring Coulee	Hill	Sawtooth	308,106
Strawberry Creek	Toole	Bow Island	2,901
Swanson Creek	Phillips, Valley	Phillips, Bow Island	1,090,095
Sweetgrass	Toole	Sunburst	142
Three Mile	Blaine	Eagle	200,955
Tiber and Area	Toole	Bow Island	87,322
Tiger Ridge and Area	Blaine, Hill	Eagle	6,967,583
Tiger Ridge, North	Blaine	Eagle	3,586
Trail Creek	Liberty, Toole	Bow Island, Sunburst	143,729
Two Forks	Blaine	Judith River	544
Utopia	Liberty	Sawtooth, Bow Island	46,643
Vandalia	Valley	Carlile-Greenhorn, Bowdoin, Phillips	105,214
West Butte	Toole	Madison, Bow Island, Sawtooth, Sunburst	101,844
West Butte Shallow Gas	Toole	Bow Island	35,675
Whitlash	Liberty	Dakota, Swift, Bow Island, Kootenai, Madison	308,308
Whitlash, West	Toole	Sunburst, Bow Island	8,001
Williams	Pondera	Bow Island	285,073
Willow Ridge	Toole	Bow Island, Swift, Dakota, Duperow	322,676
SUBTOTAL NATURAL GAS			41,203,122

ASSOCIATED PRODUCED GAS PRODUCTION DATA - 1983

In previous years, this table has reflected Associated Marketed Gas Production Data. This year it has been changed to Associated Produced Gas Production Data.

			1983 Produced MCF
Field	County	Producing Formation	
Associated Gas			
Alkali Coulee	Sheridan	Red River	7,498
Andes	Richland	Red River, Ratcliffe	770
Antelope, North	Sheridan	Red River, Winnipegosis	44,472
Anvil	Roosevelt	Nisku, Ratcliffe, Red River	333,641
Bainville	Roosevelt	Red River, Gunton	10,207
Bainville, North	Roosevelt	Ratcliffe, Red River, Winnipegosis	110,361
Bainville, West	Roosevelt	Red River, Madison	20,302
Bainville II	Roosevelt	Red River	4,615
Bell Creek	Carter, Powder River	Muddy	2,219
Benrud	Roosevelt	Nisku	1,669
Benrud, East	Roosevelt	Nisku	12,004
Benrud, Northeast	Roosevelt	Nisku	3,646
Big Muddy Creek	Roosevelt	Madison, Red River	44,022
Bloomfield	Dawson	Silurian-Ordovician	9,820
Blue Hill	Richland	Red River	10,314
Boulder	Richland	Red River	2,810
Box Canyon	Richland	Red River	187
Brorson	Richland	Madison, Red River	68,858
Brorson, South	Richland	Red River, Ratcliffe	53,043
Brush Lake	Sheridan	Red River	64,238
Burget, East	Roosevelt	Madison, Red River	11,175
Burns Creek	Dawson, Richland	Duperow, Red River	8,354
Burns Creek, South	Dawson	Red River	21,825
Cabin Creek	Fallon	Madison, Silurian-Ordovician	497,213
Canal	Richland	Madison, Red River	79,048
Cannonball	Fallon	Red River	4,537
Carlyle	Wibaux	Silurian-Ordovician	12,165
Charlie Creek	Richland	Nisku, Duperow	8,373
Charlie Creek, East	Richland	Red River	26,696
Charlie Creek, North	Richland	Bakken, Nisku, Madison	5,865
Clear Lake	Sheridan	Madison, Nisku, Red River	121,277
Colored Canyon	Sheridan	Red River	74,419
Comegnow	Sheridan	Nisku, Ratcliffe, Red River	107,236
Crane	Richland	Duperow, Silurian-Ordovician	137,780
Culbertson	Roosevelt	Red River	1,388
Cupton	Fallon	Red River	32,959
Cut Bank	Pondera, Glacier, Toole	Madison, Kootenai	57,717
Dagmar	Sheridan	Red River	55,584
Dagmar, North	Sheridan	Red River	6,186
Deer Creek	Dawson	Interlake, Red River	1,267
Delphia	Musselshell	Amsden	250
Diamond Point	Roosevelt	Red River	84,607
Divide	Sheridan	Madison	117,030
Dry Creek	Carbon	Greybull, Virgelle, Frontier	258,537
Dugout Creek	Richland	Red River	9,867
Dwyer	Sheridan	Ratcliffe, Red River	78,855
Eagle	Richland	Madison, Red River	86,877
Elk Basin	Carbon	Frontier, Madison, Tensleep	535,331
Elk Basin, Northwest	Carbon	Kootenai, Tensleep	26,007
Enid, North	Richland	Red River, Bakken	49,960
Epworth	Richland	Red River	3,001
Fairview	Richland	Interlake, Madison, Red River	394,463
Fairview, East	Richland	Red River	80,028
Fairview, West	Richland	Ratcliffe	8,766
Fertile Prairie	Fallon	Red River	9,710
Fishhook	Sheridan	Red River	103,839
Flat Lake	Sheridan	Nisku, Ratcliffe	126,765
Flat Lake, South	Sheridan	Ratcliffe	1,984

ASSOCIATED PRODUCED GAS PRODUCTION DATA - 1983 (CONTINUED)

Field	County	Producing Formation	1983 Produced MCF
Flaxville	Daniels	Madison	6,106
Fort Gilbert	Richland	Madison, Red River	81,736
Four Mile Creek	Richland	Red River	22,083
Four Mile Creek, West	Richland	Red River	17,986
Fox Creek	Richland	Mission Canyon, Red River	11,410
Fox Creek, North	Richland	Red River	7,114
Frannie	Carbon	Tensleep	62
Frog Coulee	Richland	Red River	1,361
Froid, South	Roosevelt	Ratcliffe, Red River	4,389
Gas City	Dawson	Red River	8,651
Girard	Richland	Red River	800
Glendive	Dawson	Stoney Mountain	19,548
Glendive, South	Dawson	Red River	19,968
Golden Dome	Carbon	Greybull	92,533
Goose Lake	Sheridan	Ratcliffe, Red River	70,059
Goose Lake, West	Sheridan	Red River	37,658
Gossett	Richland	Mission Canyon	9,128
Green Coulee	Sheridan	Red River	6,784
Gumbo Ridge	Rosebud	Tyler	2,206
Gunsight	Roosevelt	Madison	2,313
Gypsy Basin	Pondera, Teton	Sawtooth, Sunburst, Swift, Madison	22,883
Hardscrable Creek	Richland	Red River	4,223
Hay Creek	Richland	Interlake, Red River, Mission Canyon	26,931
Hiawatha	Musselshell	Tyler	1,362
High Five	Rosebud	Tyler	5,932
Highview	Teton, Pondera	Madison	9,284
Homestead	Roosevelt	Red River	90
Honker	Sheridan	Red River	14,520
Intake II	Richland	Red River	78,179
Jim Coulee	Musselshell	Tyler	7,951
Jim Coulee, North	Musselshell	Tyler	540
Katy Lake, North	Sheridan	Madison, Red River	270,298
Keg Coulee	Musselshell	Tyler	1,790
Kelley	Musselshell	Tyler	1,305
Kevin-Sunburst	Toole	Sawtooth, Madison, Sunburst	10,832
Kincheloe Ranch, West	Rosebud	Tyler	20,017
Laird Creek	Liberty	Swift	1,089
Lambert	Richland	Red River	72,854
Lambert, North	Richland	Red River	38
Landslide Butte	Glacier	Sun River	26,347
Leary	Powder River	Muddy	11,109
Lisk Creek	Richland	Red River	384
Little Beaver	Fallon	Red River	20,313
Little Beaver, East	Fallon	Red River	12,208
Little Wall Creek	Musselshell	Tyler	38,945
Lone Butte	Richland	Red River	15,551
Lone Rider	Roosevelt	Duperow	2,517
Lonetree Creek	Richland	Red River	162,246
Lookout Butte	Fallon	Mission Canyon, Red River, Lodgepole	132,074
Lowell	Sheridan	Red River	17,159
Lustre	Valley	Madison	51,320
Malcolm Creek	Sheridan	Mission Canyon	23,649
Mason Lake	Musselshell	Dakota	27,566
Mason Lake, North	Musselshell	Amsden	80
McCabe	Roosevelt	Ratcliffe	22,798
Medicine Lake	Sheridan	Red River	222,117
Melstone	Musselshell	Tyler	24,644
Midby	Sheridan	Red River	16,165
Miner's Coulee	Toole	Sunburst	1,859
Missouri Breaks	Richland	Red River	63,765
Mon-Dak West	Richland	Duperow, Madison, Red River	529,201
Mona	Richland	Red River	32,460

ASSOCIATED PRODUCED GAS PRODUCTION DATA - 1983 (CONTINUED)

Field	County	Producing Formation	1983 Produced MCF
Monarch	Fallon	Madison, Silurian-Ordovician	4,836
Mustang	Richland	Red River	45,055
Neisser Creek	Sheridan	Red River	33,524
Nohly	Richland	Red River, Nisku	126,674
North Fork	Richland	Madison, Red River	55,284
Ollie	Fallon	Duperow, Red River	8,495
Otis Creek	Richland	Red River	22,575
Otis Creek, South	Richland	Red River	48,418
Otter Creek	Sheridan	Red River	4,864
Outlook	Sheridan	Duperow, Red River, Winnipegosis	44,769
Outlook, West	Sheridan	Winnipegosis	867
Oxbow	Roosevelt	Red River	45,495
Palomino	Roosevelt	Nisku	9,747
Pelican	Sheridan	Red River	17,867
Pennel	Fallon	Mission Canyon	543,484
Pine	Fallon, Wibaux, Prairie, Dawson	Madison, Red River	368,734
Plentywood	Sheridan	Red River	8,103
Pondera	Pondera, Teton	Sun River	186
Pondera Coulee	Teton	Sun River	90
Poplar, Northwest	Roosevelt	Madison	9,378
Prichard Creek	Toole	Sunburst	3,440
Putnam	Richland	Interlake, Madison, Red River	204,074
Rainbow	Richland	Red River	25,711
Rattler Butte	Rosebud	Tyler	48,861
Raymond	Sheridan	Duperow, Red River, Winnipegosis, Charles, Nisku	213,432
Raymond, Northwest	Sheridan	Nisku	753
Reagan	Glacier	Madison	500,069
Red Bank	Roosevelt	Madison, Red River	103,928
Red Bank, South	Roosevelt	Red River	45,647
Red Creek	Glacier	Cut Bank, Madison	23,749
Red Fox	Roosevelt	Nisku	772
Red Water	Richland	Duperow	29,234
Redstone	Sheridan	Winnipegosis	1,430
Refuge	Sheridan	Red River	14,227
Reserve	Sheridan	Red River	25,671
Richey, East	Dawson	Charles	415
Richey, Southwest	McCone	Silurian-Ordovician	4,107
Ridgelawn	Richland	Madison, Red River	409,312
Rocky Point	Roosevelt	Red River	86,993
Rosebud	Rosebud	Tyler	1,619
Rush Mountain	Sheridan	Red River	6,708
Sand Creek	Dawson	Red River	4,718
Second Creek	Richland	Red River	166,387
Shotgun Creek	Roosevelt	Red River	4,840
Shotgun Creek, North	Roosevelt	Red River	3,492
Sidney	Richland	Madison, Red River	173,589
Sidney, East	Richland	Madison	43,717
Singletree	Roosevelt	Red River	11,662
Sioux Pass	Richland	Madison, Silurian-Ordovician	103,060
Sioux Pass, East	Richland	Red River	2,856
Sioux Pass, Middle	Richland	Red River	80,018
Sioux Pass, North	Richland	Duperow, Madison, Silurian-Ordovician	271,825
Sioux Pass, South	Richland	Red River	22,406
South Fork	Richland	Mission Canyon, Red River	60,501
Spring Lake	Richland	Bakken, Red River	14,394
Spring Lake, South	Richland	Red River	30,571
Stampede	Richland	Red River	37,755
Stensvad	Musselshell, Rosebud	Tyler	5,129
Sumatra	Rosebud	Tyler	6,915
Sunnyhill	Sheridan	Madison, Red River	15,505
Target	Roosevelt	Madison	28,560
Three Buttes	Richland	Guntton, Red River	46,236

ASSOCIATED PRODUCED GAS PRODUCTION DATA-1983 (CONTINUED)

			1983 Produced MCF
Field	County	Producing Formation	
Tippy Buttes	Musselshell	Tyler	7,029
Tule Creek	Roosevelt	Nisku	12,636
Tule Creek, East	Roosevelt	Nisku	11,361
Tule Creek, South	Roosevelt	Nisku	5,467
Two Waters	Richland	Red River	18,205
Vaux	Richland	Interlake, Mission Canyon, Red River	216,993
Wagon Trail	Musselshell	Red River	8,236
Wakea	Sheridan	Red River	12,486
Weed Creek	Yellowstone	Amsden	523
West Butte	Toole	Sunburst	3,283
Whitlash	Liberty	Swift	83,795
Wills Creek, South	Fallon	Red River	4,875
Windmill	Richland	Red River	119
Wolf Springs	Yellowstone	Amsden	21,687
Woodrow	Dawson	Silurian-Ordovician	2,391
Wrangler	Sheridan	Red River	28,372
Wrangler, North	Sheridan	Red River	9,668
Wright Creek	Powder River	Muddy	14,791
SUBTOTAL ASSOCIATED GAS PRODUCED			11,222,777
SUBTOTAL NATURAL GAS MARKETED			41,203,122
TOTAL GAS			52,425,899

NATURAL GAS IMPORTED MMCF

Canada	3,904
Dakotas	28,553
Wyoming	12,058
	44,515 MMCF

NATURAL GAS EXPORTED MMCF

Canada	136
Dakotas	6,913
Wyoming	4,697
Midwest	8,844
	20,590 MMCF

REFINERS' YEARLY TOTAL — 1983

COMPANY	BEGINNING STORAGE	MONTANA OIL	N. DAKOTA OIL	WYOMING OIL	CANADA OIL	REFINED	ENDING STORAGE
CONTINENTAL OIL CO.	148,323	1,877,131	—	4,175,314	9,142,628	15,218,888	124,508
EXXON COMPANY	83,284	964,170	—	11,347,115	354,021	12,526,023	222,567
FARMERS UNION	160,561	1,642,159	—	3,660,332	5,575,288	10,947,747	90,593
FLYING J OIL	25,759	394,697	—	—	—	414,842	5,614
KENCO REFINING	15,393	762,835	45,281	—	—	816,079	8,732
SIMMONS REFINING	7,307	1,478,945	—	—	512,145	1,990,686	7,711
TOTALS	440,627	7,119,937	45,281	19,182,761	15,584,082	41,914,265	459,725

PERCENTAGE OF CRUDE OIL REFINED

	MONTANA	CANADA	NORTH DAKOTA	WYOMING
Year: 1979	17.12%	46.58%	.01%	36.29%
Year: 1980	17.92%	39.42%	.06%	42.60%
Year: 1981	22.40%	30.40%	.04%	47.16%
Year: 1982	21.40%	36.47%	.00%	42.13%
Year: 1983	16.98%	37.16%	.11%	45.75%

AVERAGE BARRELS PER DAY

	MONTANA	CANADA	NORTH DAKOTA	WYOMING	TOTAL
Year: 1979	23,747	64,598	17	50,322	138,684
Year: 1980	21,901	48,162	69	52,050	122,182
Year: 1981	23,812	32,320	40	50,133	106,305
Year: 1982	24,763	42,198	—	48,749	115,710
Year: 1983	19,507	42,696	124	52,555	114,882

REFINING FIVE YEAR COMPARISON

1979	1980	1981	1982	1983
50,619,676	44,718,698	38,801,346	42,234,413	41,932,061

BOARD OF OIL AND GAS CONSERVATION OF THE STATE OF MONTANA

STATEMENT OF CRUDE OIL PRODUCTION AND VALUATION—ALL MONTANA FIELDS YEAR 1983 AND ACCUMULATED TOTALS FROM DISCOVERY DATE

FIELD	COUNTY	PRODUCTION YEAR 1983			CUMULATIVE TO DECEMBER 31, 1983	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Alkali Coulee	Sheridan	3,589	\$ 106,629	29.71	15,919	\$ 535,376
Andes	Richland	704	20,282	28.81	21,175	646,333
Antelope, North	Sheridan	136,734	4,000,836	29.26	139,218	4,086,358
Anvil	Roosevelt	338,690	10,096,348	29.81	1,408,201	40,687,485
Anvil, North	Sheridan	556	16,841	30.29	9,446	330,277
Ash Creek	Big Horn	5,729	172,729	30.15	803,449	2,881,238
Autumn	Valley	5,280	157,027	29.74	31,389	1,012,958
Bainville	Roosevelt	18,455	543,684	29.46	282,973	1,533,457
Bainville, North	Roosevelt	158,360	4,708,042	29.73	633,125	21,389,255
Bainville, West	Roosevelt	21,319	634,453	29.76	139,222	4,312,355
Bainville II	Roosevelt	24,681	735,987	29.82	69,381	2,240,137
Bannatyne	Teton	13,535	384,935	28.44	293,684	2,412,908
Bear's Den	Liberty	6,857	195,973	28.58	478,611	2,786,674
Bell Creek	Powder River	2,792,594	84,001,227	30.08	122,320,531	1,020,908,992
Benrud	Roosevelt	8,515	254,513	29.89	227,205	999,183
Benrud, East	Roosevelt	46,592	1,391,703	29.87	2,550,223	14,319,281
Benrud, Northeast	Roosevelt	8,596	257,364	29.94	937,358	3,741,669
Berthelote	Toole	506	11,871	23.46	55,399	261,441
Big Gully	Musselshell	2,941	80,054	27.22	92,427	1,315,361
Big Gully, North	Musselshell	1,886	56,033	29.71	18,663	391,386
Big Muddy Creek	Roosevelt	47,335	1,433,303	30.28	1,074,429	17,389,475
Big Rock	Glacier	1,770	50,976	28.80	1,770	50,976
Big Wall	Musselshell	68,146	1,959,878	28.76	7,233,500	29,204,271
Black Diamond	Wibaux	21,953	691,739	31.51	70,171	2,301,049
Blackfoot	Glacier	49,431	1,428,061	28.89	1,256,374	8,063,075
Blackleaf Canyon	Teton	9,691	283,558	29.26	9,717	284,442
Bloomfield	Dawson	23,041	679,018	29.47	30,204	697,607
Blue Hill	Richland	6,841	186,759	27.30	148,566	2,791,837
Border	Toole	10,122	291,918	28.84	1,355,243	3,913,789
Boulder	Richland	5,385	160,688	29.84	140,649	2,127,596
Bowes	Blaine	129,561	2,693,573	20.79	8,968,389	31,893,418
Box Canyon	Richland	13,023	385,480	29.60	114,876	4,090,898
Bradley	Glacier	4,426	127,070	28.71	236,979	1,369,573
Brady	Pondera	15,819	459,858	29.07	125,544	2,328,186
Bredette	Roosevelt	1,048	31,796	30.34	232,121	2,062,125
Breed Creek	Rosebud	92,354	2,670,877	28.92	691,598	13,645,534
Brorson-Madison	Richland	41,242	1,218,701	29.55	610,492	6,741,811
Brorson-Red River	Richland	46,762	1,381,817	29.55	2,027,765	11,417,898
Brorson, South	Richland	58,160	1,761,084	30.28	1,395,330	12,931,231
Brush Lake	Sheridan	87,445	2,606,735	29.81	2,143,650	16,522,233
Buffalo Flats	Chouteau	303	8,726	28.80	303	8,726
Buffalo Lake	Glacier	10	288	28.80	10	288
Burget, East	Roosevelt	28,613	842,080	29.43	63,262	1,991,149
Burns Creek	Dawson, Richland	20,994	619,323	29.50	220,651	2,417,721
Burns Creek, South	Richland	7,253	189,593	26.14	28,568	897,635
Cabin Creek	Fallon	1,379,658	38,285,509	27.75	82,270,353	385,061,822
Canal	Richland	94,675	2,793,859	29.51	739,949	9,667,593
Cannonball	Fallon	5,737	171,593	29.91	45,184	1,562,485
Carlyle	Wibaux	27,617	822,710	29.79	208,785	4,874,580
Cat Creek	Petroleum, Garfield	79,418	2,401,600	30.24	23,186,299	62,797,909
Charlie Creek	Richland	28,543	851,723	29.84	535,057	9,300,540
Charlie Creek, East	Richland	36,669	1,083,202	29.54	181,305	6,239,511

FIELD	COUNTY	PRODUCTION YEAR 1983			CUMULATIVE TO DECEMBER 31, 1983	
		BARRELS	VALUE	AVERAGE PRICE *	BARRELS	VALUE
Charlie Creek, North	Richland	14,711	\$ 434,268	29.52	23,354	\$ 717,112
Clark's Fork	Carbon	851	23,930	28.12	85,901	337,457
Clear Lake	Sheridan	171,061	5,034,325	29.43	1,325,200	33,454,713
Coal Ridge	Sheridan	936	22,286	23.81	18,954	721,115
Colored Canyon	Sheridan	61,417	1,836,982	29.91	490,800	13,314,920
Comertown	Sheridan	310,227	9,201,332	29.66	893,245	29,236,940
Conrad, South	Pondera	1,859	53,929	29.01	141,130	814,982
Cow Creek	McCone	3,207	86,556	26.99	120,790	1,145,103
Cow Creek, East	McCone	58,217	1,699,354	29.19	2,117,648	22,363,049
Crane	Richland	157,682	4,752,535	30.14	759,176	25,201,729
Crocker Springs, East	Pondera	376	10,828	28.80	1,100	32,562
Culbertson	Roosevelt	2,781	83,596	30.06	175,465	1,130,345
Cupton	Fallon	89,287	2,682,181	30.04	1,765,303	20,028,127
Cut Bank	Glacier, Toole	1,139,953	32,910,443	28.87	156,172,400	601,928,754
Dagmar	Sheridan	44,434	1,326,354	29.85	370,078	8,203,785
Dagmar, North	Sheridan	11,128	331,948	29.83	35,159	1,175,158
Deadman's Coulee	Roosevelt	50,207	1,500,687	29.89	183,748	6,027,060
Dean Dome	Stillwater	9,407	165,375	17.58	65,618	1,113,062
Deer Creek	Dawson	4,456	126,372	28.36	2,289,345	6,182,865
Delphia	Musselshell	3,784	113,860	30.09	311,915	1,256,444
Devil's Basin	Musselshell	1,251	40,257	32.18	99,781	1,516,538
Diamond Point	Roosevelt	90,658	2,496,721	27.54	412,690	9,593,342
Divide	Sheridan	235,878	6,387,576	27.08	858,420	26,523,285
Dry Creek	Carbon	13,684	413,119	30.19	4,112,582	9,321,275
Dugout Creek	Richland	7,525	219,730	29.20	63,247	2,107,386
Dwyer	Sheridan	242,259	6,700,883	27.66	6,627,297	34,485,123
Eagle	Richland	162,606	4,832,650	29.72	901,279	23,512,780
Elk Basin	Carbon	635,807	16,619,994	26.14	78,565,239	279,198,895
Elk Basin, Northwest	Carbon	8,375	230,480	27.52	1,214,825	5,257,555
Enid, North	Richland	53,373	1,592,650	29.84	166,834	4,847,057
Epworth	Richland	1,640	50,250	30.64	55,142	1,909,226
Fairview	Richland	317,815	9,404,145	29.59	6,965,233	54,220,350
Fairview, East	Richland	75,892	2,248,679	29.63	251,307	8,153,849
Fairview, West	Richland	33,649	986,588	29.32	75,279	2,396,061
Fertile Prairie	Fallon	32,020	957,718	29.91	540,106	4,290,351
Fiddler Creek	Stillwater	471	8,887	18.87	1,560	34,803
Fishhook	Sheridan	162,956	4,841,422	29.71	512,578	16,826,774
Flat Coulee	Liberty	200,954	5,813,599	28.93	3,926,946	34,445,516
Flat Lake	Sheridan	437,906	11,267,321	25.73	13,264,264	89,817,765
Flat Lake, South	Sheridan	55,315	1,400,022	25.31	1,002,859	9,812,037
Flaxville	Daniels	15,141	356,873	23.57	30,888	864,241
Fort Gilbert	Richland	126,802	3,776,163	29.78	1,587,226	19,920,053
Four Mile Creek	Richland	23,755	708,849	29.84	291,280	5,299,132
Four Mile Creek, West	Richland	31,272	921,273	29.46	206,043	4,678,407
Fox Creek	Richland	14,380	431,400	30.00	170,750	3,965,321
Fox Creek, North	Richland	14,047	424,640	30.23	50,614	1,326,546
Frannie	Carbon	7,236	187,122	25.86	739,103	2,332,259
Fred & George Creek	Toole	176,921	5,128,939	28.99	12,418,680	70,027,203
Frog Coulee	Richland	6,414	187,160	29.18	112,088	3,597,817
Froid, South	Roosevelt	5,523	164,806	29.84	191,421	1,662,163
Gage	Musselshell	8,033	236,330	29.42	607,450	2,574,193
Gas City	Dawson	123,766	3,637,482	29.39	9,418,822	42,600,737
Girard	Richland	6,583	213,486	32.43	220,772	1,126,305
Glacier, East	Glacier	2,391	70,486	29.48	17,301	572,839
Glendive	Dawson	161,835	4,688,359	28.97	11,768,069	48,329,672
Glendive, South	Dawson	58,122	1,720,992	29.61	60,170	1,788,447
Golden Dome	Carbon	7,682	230,460	30.00	55,215	607,978
Goose Lake	Sheridan	200,154	5,302,079	26.49	7,899,313	47,637,486

FIELD	COUNTY	PRODUCTION YEAR 1983			CUMULATIVE TO DECEMBER 31, 1983	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Goose Lake, West	Sheridan	89,193	\$ 2,637,437	29.57	188,452	\$ 5,839,235
Gossett	Richland	39,371	1,131,522	28.74	53,861	1,620,364
Graben Coulee	Glacier	79,207	2,262,152	28.56	1,607,949	16,025,526
Grandview	Liberty	5,169	147,988	28.63	9,784	196,936
Grandview, East	Liberty	2,855	82,224	28.80	23,876	644,080
Green Coulee	Sheridan	32,155	960,469	29.87	73,849	2,356,859
Gumbo Ridge	Rosebud	47,684	1,381,405	28.97	496,794	9,153,811
Gunsight	Roosevelt	26,132	757,044	28.97	49,281	1,501,941
Gypsy Basin	Pondera	26,989	782,141	28.98	368,623	5,471,273
Hard Pan	Pondera	404	11,586	28.68	1,007	30,856
Hardscrabble Creek	Richland	30,343	894,511	29.48	41,754	1,243,289
Hawk Haven	Richland	1,827	52,617	28.80	6,732	218,587
Hay Creek	Richland	44,244	1,318,028	29.79	1,116,757	7,555,955
Hiawatha	Musselshell	24,684	729,905	29.57	1,431,051	7,484,716
Hibbard	Rosebud	6,913	198,195	28.67	209,064	1,791,358
High Five	Rosebud	160,034	4,674,593	29.21	1,554,702	32,910,311
Highview	Pondera	9,216	264,407	28.69	28,498	791,371
Homestead	Roosevelt	303	8,726	28.80	303	8,726
Honker	Sheridan	15,047	447,949	29.77	56,072	1,872,067
Horse Creek	Liberty	389	11,179	28.74	7,913	149,941
Howard Coulee	Musselshell	5,784	169,297	29.27	115,062	1,644,909
Injun Creek	Rosebud	24,793	748,996	30.21	93,389	2,304,915
Intake II	Richland	143,822	4,294,524	29.86	342,287	10,915,325
Ivanhoe	Musselshell	18,593	518,744	27.90	4,465,539	13,504,299
Jim Coulee	Musselshell	108,435	3,212,929	29.63	3,809,914	35,287,148
Katy Lake, North	Sheridan	452,751	13,478,397	29.77	1,810,740	61,036,108
Keg Coulee	Musselshell	90,897	2,689,642	29.59	5,071,182	25,028,941
Keg Coulee, North	Musselshell	15,729	457,399	29.08	408,974	4,154,685
Kelley	Musselshell	9,793	292,223	29.84	916,133	4,330,522
Kevin-Sunburst	Toole	711,990	20,505,312	28.80	75,111,428	215,378,683
Kicking Horse	Toole	182	5,521	30.34	1,259	42,675
Kincheloe Ranch, West	Rosebud	67,055	1,953,312	29.13	304,454	9,719,576
Kippen, East	Toole	42	1,209	28.80	150	4,815
Laird Creek	Liberty	10,615	307,198	28.94	542,893	3,975,239
Lambert	Richland	92,435	2,742,546	29.67	240,608	7,716,531
Lambert, North	Richland	3,932	113,242	28.80	33,014	1,122,968
Landslide Butte	Glacier	16,474	474,286	28.79	63,050	900,539
Leary	Powder River	39,432	1,165,609	29.56	484,842	6,090,462
Ledger	Pondera	123	3,546	28.83	152	4,474
Little Beaver	Fallon	362,522	9,885,974	27.27	10,411,146	69,806,033
Little Beaver, East	Fallon	126,306	3,444,364	27.27	4,903,028	25,891,893
Little Phantom	Toole	4,264	121,481	28.49	39,215	835,411
Little Wall Creek	Musselshell	236,237	6,980,803	29.55	2,695,349	48,024,878
Lodge Grass	Big Horn	5,684	155,286	27.32	270,391	1,244,257
Lone Butte	Richland	8,338	246,387	29.55	343,570	5,212,258
Lone Rider	Roosevelt	3,036	97,152	32.00	5,541	183,852
Lonetree Creek	Richland	127,968	3,926,058	30.68	2,843,532	29,739,416
Lonetree Creek, West	Richland	12,569	385,616	30.68	25,726	809,087
Long Creek	Roosevelt	4,354	129,139	29.66	48,387	952,945
Long Creek, West	Roosevelt	61,851	1,817,800	29.39	377,334	8,461,513
Lookout Butte	Fallon	497,066	13,838,317	27.84	21,002,890	116,247,813
Lowell	Sheridan	27,692	825,498	29.81	136,831	4,610,307
Lustre	Valley	402,726	11,332,709	28.14	502,286	14,379,544
Mackay Dome	Stillwater	9,722	165,954	17.07	54,342	1,047,789
Malcolm Creek	Sheridan	6,119	182,835	29.88	11,253	347,385
Mason Lake	Musselshell	77,386	2,313,841	29.90	737,217	17,967,285
Mason Lake, North	Musselshell	1,596	46,475	29.12	15,282	370,032
McCabe	Roosevelt	28,149	839,684	29.83	148,249	4,048,668

FIELD	COUNTY	PRODUCTION YEAR 1983			CUMULATIVE TO DECEMBER 31, 1983	
		BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
McCabe, East	Roosevelt	38	\$ 1,094	28.80	3,320	\$ 116,683
McCabe, South	Roosevelt	2,203	66,332	30.11	6,599	208,261
Meander	Pondera	828	23,929	28.90	2,371	73,186
Medicine Lake	Sheridan	250,669	7,379,695	29.44	1,725,159	57,915,622
Melstone	Musselshell	157,683	4,687,915	29.73	2,821,100	30,763,380
Midby	Sheridan	15,210	483,221	31.77	64,548	2,141,418
Mineral Bench	Roosevelt	2,909	88,433	30.40	164,636	957,774
Miners Coulee	Toole	1,875	55,050	29.36	148,539	1,030,487
Missouri Breaks	Richland	58,670	1,760,100	30.00	144,412	4,500,414
Mon Dak, West	Richland	666,733	19,875,310	29.81	5,531,249	137,706,808
Mona	Richland	12,937	388,239	30.01	52,186	1,637,966
Monarch	Fallon	132,258	3,697,933	27.96	4,744,625	29,551,068
Mosser Dome	Yellowstone	8,167	226,225	27.70	316,300	1,848,754
Musselshell	Musselshell	1,309	37,830	28.90	18,598	152,567
Mustang	Richland	53,329	1,574,272	29.52	301,148	10,109,175
Neiser Creek	Sheridan	40,230	1,186,785	29.50	40,230	1,186,785
Nohly	Richland	65,556	1,941,768	29.62	1,126,777	13,487,746
Nohly, South	Richland	75,206	2,227,601	29.62	75,206	2,227,601
North Fork	Richland	36,154	1,064,012	29.43	300,537	6,391,071
Ollie	Fallon	18,950	560,920	29.60	157,825	5,552,066
Otis Creek	Richland	24,166	724,738	29.99	726,537	9,080,127
Otis Creek, South	Richland	49,660	1,470,432	29.61	72,320	2,200,651
Otter Creek	Sheridan	8,385	255,407	30.46	27,072	918,091
Outlook	Sheridan	103,893	3,103,283	29.87	7,797,202	42,176,059
Outlook, South	Sheridan	5,598	167,212	29.87	675,843	2,490,757
Outlook, West	Sheridan	12,460	372,180	29.87	596,557	3,359,588
Oxbow	Roosevelt	44,579	1,323,996	29.70	202,137	4,491,543
Palomino	Roosevelt	186,539	5,583,112	29.93	585,141	19,210,254
Pasture	Dawson	33	950	28.80	2,869	90,868
Pelican	Sheridan	19,002	567,969	29.89	106,843	3,586,581
Pennel	Fallon	3,065,812	85,168,257	27.78	55,905,864	541,407,180
Pete Creek	Toole	1,690	48,874	28.92	13,002	284,194
Phantom	Toole	1,843	53,281	28.91	41,862	710,183
Pine	Dawson, Prairie,					
	Fallon, Wibaux	1,855,132	51,813,836	27.93	97,502,623	467,588,944
Plentywood	Sheridan	6,449	192,760	29.89	16,703	536,687
Pondera	Pondera, Teton	440,768	12,641,226	28.68	22,936,968	111,658,250
Pondera Coulee	Teton	2,224	58,291	26.21	40,310	518,799
Poplar, East	Roosevelt	243,900	7,273,098	29.82	44,171,922	156,010,987
Poplar, Northwest	Roosevelt	163,492	4,865,521	29.76	1,698,885	25,157,594
Poplar, Southeast	Roosevelt	2,555	75,883	29.70	161,437	1,060,712
Prairie Dell	Toole	121	3,509	29.00	121	3,509
Prairie Elk	McCone	4,019	105,780	26.32	67,781	973,777
Prichard Creek	Toole	15,551	451,601	29.04	131,933	1,744,205
Putnam	Richland	227,212	6,752,740	29.72	2,795,823	64,589,196
Rabbit Hills	Blaine	78,941	1,677,496	21.25	666,111	10,151,083
Ragged Point	Musselshell	72,032	2,083,165	28.92	3,305,946	21,169,046
Rainbow	Richland	27,980	843,037	30.13	61,439	1,915,398
Rattler Butte	Rosebud	158,793	4,690,745	29.54	618,069	17,463,080
Rattlesnake Coulee	Toole	842	24,148	28.68	88,636	640,938
Raymond	Sheridan	207,953	6,159,567	29.62	3,440,987	58,662,498
Raymond, North	Sheridan	34,337	1,012,254	29.48	43,418	1,303,318
Raymond, Northeast	Sheridan	1,287	38,146	29.64	119,958	1,700,581
Reagan	Glacier	245,022	7,093,386	28.95	7,555,691	61,315,120
Red Bank	Roosevelt	229,632	6,797,107	29.60	854,722	28,283,988
Red Bank, South	Roosevelt	40,663	1,214,197	29.86	155,907	5,029,016
Red Creek	Glacier	81,880	2,331,942	28.48	5,536,735	22,597,074

PRODUCTION YEAR 1983 **CUMULATIVE TO
DECEMBER 31, 1983**

FIELD	COUNTY	BARRELS	VALUE	AVERAGE PRICE*	BARRELS	VALUE
Red Fox	Roosevelt	2,606	\$ 77,841	29.87	372,411	\$ 1,518,342
Red Water	Richland	3,659	107,464	29.37	25,654	922,027
Red Water, East	Richland	76,982	2,268,660	29.47	76,982	2,268,660
Redstone	Sheridan	4,486	133,682	29.80	457,919	1,985,656
Refuge	Sheridan	13,784	411,452	29.85	91,081	3,250,383
Repeat	Carter	9,179	228,648	24.91	503,287	2,605,886
Reserve	Sheridan	25,952	770,514	29.69	1,490,183	11,891,770
Richey	Dawson, McCone	9,665	297,585	30.79	1,965,564	6,478,844
Richey, East	Dawson	1,724	50,840	29.49	10,345	332,344
Richey, Southwest	McCone	4,906	146,247	29.81	1,890,163	6,120,809
Ridgelawn	Richland	526,017	15,638,485	29.73	1,986,738	64,488,811
RipRap Coulee	Roosevelt	42,182	1,222,012	28.97	273,164	6,099,220
River Bend	Richland	32,330	931,104	28.80	83,712	2,618,632
Rocky Point	Roosevelt	71,001	2,117,249	29.82	237,217	6,673,873
Roscoe Dome	Carbon	2,247	40,333	17.95	11,368	277,581
Rosebud	Rosebud	12,934	384,915	29.76	395,386	5,886,175
Royals	Dawson	45,270	1,403,822	31.01	134,593	4,502,890
Royals, South	Dawson	416	12,667	30.45	3,082	101,400
Rudyard	Hill	401	11,492	28.66	10,705	230,377
Runaway	Teton	452	12,755	28.22	2,216	74,965
Rush Mountain	Sheridan	11,408	341,099	29.90	417,901	3,007,903
Salt Lake	Sheridan	12,085	359,287	29.73	344,563	3,051,197
Sand Creek	Dawson	20,207	573,474	28.38	2,284,266	10,443,409
Second Creek	Richland	44,366	1,315,008	29.64	975,724	14,964,791
Sheepherder	Musselshell	2,013	57,732	28.68	66,603	1,066,591
Shotgun Creek	Roosevelt	10,833	323,906	29.90	101,780	978,922
Shotgun Creek, North	Roosevelt	3,064	90,388	29.50	89,647	1,564,569
Sidney	Richland	214,194	6,340,142	29.60	2,206,271	42,924,765
Sidney, East	Richland	65,477	2,023,239	30.90	326,720	11,165,683
Singletree	Roosevelt	11,963	344,534	28.80	82,418	1,723,805
Sioux Pass	Richland	144,038	4,272,167	29.66	2,570,198	40,306,163
Sioux Pass, East	Richland	4,050	119,313	29.46	57,249	1,083,875
Sioux Pass, Middle	Richland	105,315	3,095,208	29.39	963,828	22,958,390
Sioux Pass, North	Richland	342,231	10,201,906	29.81	2,330,870	55,923,687
Sioux Pass, South	Richland	48,343	1,447,389	29.94	80,107	2,459,930
Snyder	Big Horn	4,700	109,181	23.23	440,953	1,482,454
Soap Creek	Big Horn	62,528	1,468,157	23.48	2,298,366	12,992,843
Soap Creek, East	Big Horn	7,860	168,125	21.39	74,694	1,492,496
South Fork	Richland	58,534	1,734,362	29.63	702,352	13,961,682
Spring Lake	Richland	21,494	641,380	29.84	772,561	4,807,610
Spring Lake, South	Richland	16,901	507,030	30.00	55,056	1,804,623
Stampede	Richland	35,404	1,036,275	29.27	123,476	3,970,666
Stampede, North	Richland	3,474	101,683	29.27	4,566	136,865
Stensvad	Musselshell, Rosebud	8,697	239,776	27.57	10,060,189	26,939,032
Sumatra	Rosebud	701,356	20,535,703	29.28	40,306,226	253,362,459
Sunnyhill	Sheridan	52,881	1,571,623	29.72	168,468	4,377,277
Target	Roosevelt	108,517	3,041,731	28.03	305,629	9,261,235
Three Buttes	Richland	38,497	1,130,656	29.37	161,647	5,312,222
Tippy Buttes	Musselshell	24,931	729,979	29.28	84,614	2,628,286
Tule Creek	Roosevelt	103,387	3,073,695	29.73	7,676,986	33,619,590
Tule Creek, East	Roosevelt	8,457	252,018	29.80	1,983,455	6,555,556
Tule Creek, South	Roosevelt	4,235	124,297	29.35	686,520	3,107,578
Two Waters	Richland	14,656	426,929	29.13	80,954	2,784,816
Utopia Swift	Liberty	53,664	1,531,033	28.53	328,991	7,497,446
Vaux	Richland	309,882	8,989,676	29.01	1,754,489	43,966,414
Vida	McCone	4,252	127,645	30.02	262,876	1,156,361
Volt	Roosevelt	73,549	2,192,495	29.81	2,574,381	17,446,321

FIELD	COUNTY	PRODUCTION YEAR 1983			CUMULATIVE TO DECEMBER 31, 1983	
		BARRELS	VALUE	AVERAGE PRICE *	BARRELS	VALUE
Wagon Box	Musselshell	3,614	\$ 105,528	29.20	26,450	\$ 413,687
Wagon Trail	Richland	12,394	356,947	28.80	36,249	1,107,545
Wakea	Sheridan	33,664	969,523	28.80	33,664	969,523
Weed Creek	Yellowstone	5,097	149,800	29.39	594,139	2,393,014
Weldon	McCone	10,446	309,306	29.61	7,034,164	20,009,368
West Butte	Toole	9,075	263,447	29.03	262,696	2,401,779
Whitlash	Liberty	104,855	3,043,940	29.03	4,859,333	39,999,022
Whitlash, West	Liberty	6,086	176,676	29.03	82,784	999,525
Willow Creek, North	Musselshell	7,833	226,217	28.88	299,447	2,628,161
Willow Ridge	Toole	3,367	98,013	29.11	30,738	756,827
Wills Creek, South	Fallon	28,363	788,775	27.81	955,358	6,470,613
Windmill	Richland	2,116	63,797	30.15	6,031	190,017
Winnett Junction	Musselshell	44,607	1,291,372	28.95	670,179	11,848,058
Wolf Springs	Yellowstone	12,715	366,065	28.79	4,606,882	13,219,835
Woodrow	Dawson	14,835	415,380	28.00	1,076,905	4,600,436
Wrangler	Sheridan	36,282	1,015,896	28.00	210,090	7,276,868
Wrangler, North	Sheridan	12,781	378,701	29.63	67,554	2,401,911
Wright Creek	Powder River	6,417	190,520	29.69	238,454	2,389,335
Yates	Wibaux	7,570	245,419	32.42	28,836	964,529
Wildcat	Dawson	76	2,189	28.80	353	12,645
Wildcat	Hill	244	7,027	28.80	405	8,831
Misc. Abandoned Fields ..					3,456,115	12,418,835
TOTALS		29,665,289	854,056,075	28.79	1,139,271,686	7,214,750,767

*Average price from the Montana Department of Revenue

MISCELLANEOUS ABANDONED FIELDS AS OF DECEMBER 31, 1983

FIELD	BARRELS	VALUE	FIELD	BARRELS	VALUE
Bascom	27,830	\$ 65,674	Pole Creek	169,726	\$ 277,956
Belfry	97,046	410,399	Rattlesnake Butte	5,920	6,592
Benrud Area	538	17,216	Richey Area, West	11,062	403,670
Big Wall, North	7,218	116,302	Rough Creek	3,599	10,583
Blackfoot, East	810	1,730	Scobey	3,916	145,674
Bredette, North	488,554	1,160,009	Smoke Creek	100,305	221,361
Burget	6,504	228,647	Snoose Coulee	678	21,857
Butchers Creek	579	20,259	Snowden	1,938	70,607
Bynum	5,971	15,320	Two Medicine Creek	10,249	370,951
Cadmus	1,173	3,381	Viking	160	1,957
Chelsea Creek	11,548	43,764	West Fork	6,671	229,773
Clark Fork, North	1,024,608	2,895,208	Wibaux	23,580	42,945
Clark Fork, South	80,553	634,021	Willow Ridge, South	3,054	97,968
Dry Creek West	5,042	148,829	Wolf Creek	1,979	2,275
Flat Coulee, East	1,054	35,497	Woman's Pocket	3,526	7,461
Flat Lake Area	7,632	246,147	Yellowstone	39,405	72,518
Four Buttes	41,067	122,184	Wildcat, Blaine County	9,324	19,667
Gage, Southwest	16,289	37,397	Wildcat, Carbon County	6,368	13,559
Gettysburg	304	11,987	Wildcat, Daniels County	3,508	7,787
Goose Lake, East	4,522	168,087	Wildcat, Fallon County	10,683	29,485
Hawk Creek	8,604	80,119	Wildcat, Glacier County	48,231	124,918
Jack Creek	1,310	3,275	Wildcat, Liberty County	3,254	19,148
Katy Lake	1,056	2,872	Wildcat, McCone County	12,575	41,467
Krug Creek	15,288	538,314	Wildcat, Musselshell County	925	1,841
Lake Basin	473,639	661,111	Wildcat, Powder River County	27,445	65,594
Lakeside	487	18,489	Wildcat, Richland County	339,856	818,099
Lariat	3,599	123,587	Wildcat, Roosevelt County	86,154	236,920
Laurel	1,017	36,458	Wildcat, Sheridan County	51,711	547,362
Line Coulee	57,789	138,495	Wildcat, Stillwater County	11,283	13,365
Lisk Creek	1,939	70,297	Wildcat, Toole County	35,809	118,817
Pasture Creek	1,914	62,789	Wildcat, Wibaux County	8,388	25,416
Pine, East	19,349	233,378	TOTALS	3,456,115	12,418,835

1983-WELL COMPLETIONS

COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
							OIL B/D	Gas MCF/D
BEAVERHEAD								
Amoco Production Co., 31-4S-15W, Jack Hirschy Livestock #2	6	00121010	Wildcat	NA	4-23-83	9,550	0	0
Amoco Production Co., 10-15S-7W, Snowline Grazing Fed. #1	6	00121011	Wildcat	Unknown	11-16-82	14,410	0	0
BIG HORN								
Atlantic Richfield Co., 20-2N-34E, Rough Springs #1	6	00321176	Wildcat	Unknown	12-21-83	7,930	0	0
Champlin Petroleum Co., 15-2N-35E, Kendrick 13-15 #1	6	00321163	Wildcat	Unknown	2-1-83	9,209	0	0
Samuel Gary, 3-6S-39E, Joney Brothers 3-12	6	00321149	Wildcat-Strat	Unknown	10-31-80	7,621	0	0
Samuel Gary, 34-1N-37E, Luther 34-9	6	00321148	Wildcat-Strat	Unknown	10-3-80	5,460	0	0
BLAINE								
Flare Energy Corp., 12-34N-21E, Jordahl 12-1	6	00522192	Wildcat	Unknown	9-19-83	2,000	0	0
Flare Energy Corp., 2-34N-21E, Berger 2-1	6	00522199	Wildcat	Unknown	9-20-83	2,000	0	0
Flare Energy Corp., 36-35N-21E, State 36-1	6	00522200	Wildcat	Unknown	9-19-83	2,130	0	0
Flare Energy Corp., 26-35N-21E, Galt 26-1	6	00522193	Wildcat	Unknown	9-20-83	2,165	0	0
Flare Energy Corp., 11-34N-22E, Galt 11-1	6	00522197	Wildcat	Unknown	9-18-83	2,210	0	0
Flare Energy Corp., 22-35N-21E, Meredith 22-1	6	00522194	Wildcat	Unknown	9-20-83	2,094	0	0
Havre Drilling Co., 28-33N-18E, State #1	3	00522012	Lohman	Unknown	5-14-83	1,070	0	0
J. Burns Brown & 5B Oil & Gas, 14-25N-17E, Odd Fellow 14-25-17	3	00522302	Sherard	Unknown	3-17-83	1,852	0	0
Montana Power Co., 10-26N-20E, Fed. 12	6	00522311	Wildcat	Unknown	9-10-83	1,780	0	0
Texaco, Inc., 12-31N-19E, Bowes Sawtooth Unit C312	1	00522306	Bowes Sawtooth Unit	Sawtooth	9-9-83	3,610	0	0
Texaco, Inc., 11-31N-19E, Bowes Sawtooth Unit G311	1	00522304	Bowes Sawtooth Unit	Sawtooth	9-18-83	3,636	0	0
Texaco, Inc., 11-31N-19E, Bowes Sawtooth Unit C311	1	00522308	Bowes Sawtooth Unit	Sawtooth	10-1-83	3,645	0	0
Texaco, Inc., 12-31N-19E, Bowes Sawtooth Unit A112	1	00522307	Bowes Sawtooth Unit	Sawtooth	10-8-83	3,610	0	0
Texaco, Inc., 12-31N-19E, Bowes Sawtooth Unit E112	1	00522305	Bowes Sawtooth Unit	Sawtooth	10-22-83	3,541	90	0
Tricentral United States, Inc., 24-25N-17E, US 24-2	3	00522285	Huebschwerlen Unit	Unknown	3-7-83	2,575	56	0
Tricentral United States, Inc., 22-25N-18E, US 22-3	3	00522294	Sherard Unit	Unknown	3-2-83	2,609	46	0
Tricentral United States, Inc., 26-25N-18E, US 26-10	3	00522303	Sherard	Unknown	5-26-83	2,050	44	0
Tricentral United States, Inc., 11-26N-19E, US 11-10	3	00522310	Sherard Unit	Unknown	8-27-83	1,790	78	0
Tricentral United States, Inc., 21-25N-18E, Stevens 21-11	3	00522313	Sherard Unit	Unknown	11-22-83	1,750	0	0
CARBON								
Atlantic Richfield Co., 29-9S-23E, Fed. Helen #5	3	00921188	NW Elk Basin	Unknown	12-18-83	3,390	0	0
Eastern American Energy Corp., 5-6S-18E, George #6	1	00921134	Roscoe Dome	Lakota	8-8-80	2,964	5	0
Eastern American Energy Corp., 32-5S-18E, George #2	1	00921130	Roscoe Dome	Morrison	6-21-80	3,160	0	0
J.M. Resources, Inc., 15-7S-24E, Total Fed. #1	6	00921142	Wildcat	Unknown	4-20-81	640	0	0
J.M. Resources, Inc., 15-7S-24E, Fed. 1-15	6	00921171	Wildcat	Unknown	4-17-82	596	0	0
J.M. Resources, Inc., 20-7S-24E, Total Fed. #8	6	00921151	Wildcat	Unknown	4-14-81	373	0	0
J.M. Resources, Inc., 15-7S-24E, Fed. Geoff #1	6	00921185	Wildcat	Unknown	1-31-83	478	0	0
St. Mary Parish Land Co., 18-8S-25E, Chapman #1	6	00921183	Wildcat	NA	1-16-83	1,870	0	0
St. Mary Parish Land Co., 18-8S-25E, Tanner Fed. #1	8	00921182	Wildcat	NA	1-3-83	1,975	0	0
CARTER								
GeoResources, Inc., 15-8S-57E, Fed. 857-15-2	3	01121319	Hammond	Unknown	8-11-83	1,260	0	0
GeoResources, Inc., 20-8S-57E, Fed. 857-20-2	6	01121321	Wildcat	Unknown	8-8-83	1,360	0	0
Jerry A. McCutchin, Jr., 16-4S-60E, State 1-16	6	01121307	Wildcat	Unknown	7-17-81	1,698	0	0
Ridgeway Oil Exploration & Dev., 28-7S-56E, Cook 1-A	6	01121298	Wildcat	Unknown	11-4-80	5,000	0	0
Samuel Gary, 23-1N-57E, Crabtree 23-9	6	01121297	Wildcat-Strat	Unknown	9-14-80	2,300	0	0
Samuel Gary, 27-3N-56E, Crabtree 27-10	6	01121296	Wildcat-Strat	Unknown	9-18-80	2,475	0	0
Stanley Kimm, 26-9S-62E, Morgan 1-26	6	01121318	Wildcat	Unknown	10-27-82	4,541	0	0
CASCADE								
Madison Resources Inc., 25-21N-2E, Wood 25-1	7	01321025	Wildcat	Unknown	4-30-80	755	0	0
Virgil R. Chamberlain, 15-20N-2E, E McKenna - A Paskvan 4-15	8	01321034	Wildcat	Unknown	9-3-83	778	0	0
Virgil R. Chamberlain, 36-20N-4E, State 16A-36	8	01321033	Wildcat	Unknown	6-15-83	2,172	0	0

1983-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
CHOUTEAU								
Montana Power Co., 28-27N-17E, Fed. 6-28	3	01521615	Bullwacker	Unknown	9-6-83	3,312	0	0
Montana Power Co., 24-27N-16E, Henderson 14-24	3	01521599	Bullwacker	Unknown	7-26-83	2,335	0	0
Montana Power Co., 33-27N-15E, IX Ranch All-33	3	01521601	Bullwacker	Unknown	7-23-83	2,643	0	0
Montana Power Co., 31-27N-17E, Henderson 2-31	3	01521605	Bullwacker	Unknown	8-13-83	2,701	0	0
Montana Power Co., 22-27N-16E, Weaver 7-22	3	01521598	Bullwacker	Unknown	8-2-83	2,888	0	0
Montana Power Co., 31-27N-16E, Faber 5-31	3	01521602	Bullwacker	Unknown	8-12-83	2,237	0	0
Montana Power Co., 20-27N-17E, Henderson 16-20	3	01521607	Bullwacker	Unknown	8-2-83	2,581	0	0
Montana Power Co., 27-27N-15E, State 15-27	3	01521604	Bullwacker	Unknown	7-19-83	2,395	0	0
Montana Power Co., 29-27N-17E, Fed. 10-29	3	01521614	Bullwacker	Unknown	9-14-83	3,499	0	0
Montana Power Co., 32-27N-17E, Hokanson #3	3	01521611	Bullwacker	Unknown	8-21-83	3,158	0	0
Montana Power Co., 32-27N-16E, Dumas 12-32	3	01521608	Bullwacker	Unknown	8-24-83	2,928	0	0
Natural Gas Processing Co., 17-26N-3E, McLean & Son 1-17	5	01521592	Wildcat	2nd Bow Island	2-15-83	1,028	0	0
Tricentrol United States, Inc., 5-25N-17E, McLeish 5-5	3	01521595	Sherard	Unknown	5-31-83	2,170	0	0
Tricentrol United States, Inc., 33-25N-17E, US 33-6	6	01521610	Wildcat	Unknown	8-31-83	1,340	0	0
Tricentrol United States, Inc., 30-25N-17E, US 30-10	6	01521619	Wildcat	Unknown	12-2-83	1,410	0	0
CUSTER								
Samuel Gary, 2-6N-51E, Atkinson 2-2	6	01721159	Wildcat-Strat	Unknown	9-23-80	2,687	0	0
Samuel Gary, 13-6N-45E, Lockie Livestock 13-1	6	01721162	Wildcat-Strat	Unknown	9-29-80	2,876	0	0
DANIELS								
Anderson Oil Co., 24-35N-48E, Scobey 32-24	6	01921065	Wildcat	Unknown	9-27-83	8,220	0	0
Gerber Energy Corp., 36-36N-48E, Bitterroot-State #1	6	01921066	Wildcat	Unknown	11-27-83	8,170	0	0
Samedan Oil Corp., 10-37N-48E, Boelter 1-10	6	01921064	Wildcat	Unknown	8-27-83	9,327	0	0
DAWSON								
Conley P. Smith, 1-16N-56E, NPRR #1	6	02105133	Wildcat	Unknown	10-15-81	10,239	0	0
Gulf Oil Corp., 4-19N-53E, Raisl 1-4-3C	1	02121088	Bloomfield	Interlake	3-24-83	10,650	210	0
Gulf Oil Corp., 19-14N-58E, Ceres 1-19-1A	6	02121089	Wildcat	NA	3-7-83	10,940	0	0
Gulf Oil Corp., 16-18N-51E, Mink State 1-16-1C	6	02121092	Wildcat	Unknown	6-13-83	11,010	0	0
Robinson Resource Dev. Co., 14-18N-53E, Carpenter 34-14 ***	5	02121090	Wildcat	Tyler	8-8-83	10,693	0	1,100
Southland Royalty Co., 30-15N-56E, Yellowstone Bend Fed 1-30	3	02121094	S. Glendive	Unknown	9-27-83	9,886	0	0
Transcontinental Oil Corp., 28-23N-50E, Casterline 28-10	1	02121091	Richey Area	Mission Canyon	3-30-83	7,860	20	0
FALLON								
Diamond Shamrock, 18-5N-59E, Lucky Jones 1-18	6	02521271	Wildcat	Unknown	12-3-83	9,795	0	0
Leeds Energy Limited, 26-9N-59E, Fed. 1-26 **	4	02521257	Wildcat	Red River A-C	12-22-83	9,720	115	0
Milestone Petroleum, Inc., 11-9N-58E, BN 31-11	1	02521243	Monarch	Sil Red River	9-27-83	9,235	45	0
Montana-Dakota Utilities, 5-6N-60E, BN 419	2	02521249	Cedar Creek	Eagle	8-4-83	1,900	0	10
Montana-Dakota Utilities, 33-7N-60E, BN 418	2	02521248	Cedar Creek	Eagle	8-3-83	1,800	0	24
Montana-Dakota Utilities, 15-6N-60E, BN 421	2	02521246	Cedar Creek	Eagle	8-9-83	1,900	0	12
Montana-Dakota Utilities, 11-6N-60E, BN 420	2	02521247	Cedar Creek	Eagle	8-10-83	1,900	0	7
Montana-Dakota Utilities, 29-7N-60E, BN 422	7	02521250	Cedar Creek	Judith River	8-8-83	1,100	0	0
Natomas N. America, 31-3N-61E, Huntress-Knutsen 1-31	6	02521217	Wildcat	Unknown	2-7-82	9,410	0	0
Nielco, Inc., 20-8N-60E, Halmans 42-20	1	02521133	Pennel	Red River	2-7-79	9,145	8	0
Shell Oil Co., 17-7N-60E, Unit 11-17B	1	02521240	Pennel	Red River	10-12-83	8,820	327	0
Shell Oil Co., 5-7N-60E, Unit 33-5B	1	02521242	Pennel	Stoney Mountain	9-21-83	8,997	86	0
Shell Oil Co., 18-7N-60E, PENNEL Unit 11-18B	1	02521244	Pennel	Stoney Mountain,				
				Red River	12-1-83	8,708	214	0
Shell Oil Co., 28-10N-58E, Unit 11-28	1	02521245	Cabin Creek	Red River, Stoney				
				Mountain	11-1-83	8,920	213	0
Shell Oil Co., 24-8N-59E, USA 33-24	1	02521254	Pennel	Red River, Stoney				
				Mountain	12-7-83	8,920	242	0
Shell Oil Co., 33-10N-58E, Unit 32-33R	1	02521252	Cabin Creek	Sil & Stoney				
				Mountain	11-29-83	8,970	293	0
Shell Western E & P, Inc., 33-8N-60E, Unit 31-33C	1	02521256	Pennel	Red River	12-21-83	9,100	61	0
Shell Western E & P, Inc., 31-5N-61E, Unit (BN) 13-31	1	02521260	Little Beaver	Red River	12-8-83	8,626	109	0
Woods Petroleum Corp., 1-2N-61E, Tull 1-1	3	02521229	Gaslight	Unknown	9-23-83	2,025	0	0

1983-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	
FERGUS									
Equity Oil Co., 21-14N-17E, Bristol 7-21	6	02721199	Wildcat	Unknown	10-10-83	2,350	0	0	
Equity Oil Co., 23-14N-17E, Machler 3-23	6	02721200	Wildcat	Unknown	10-16-83	1,808	0	0	
Fuel Resources Dev. Co., 27-23N-19E, Fed. N-27-23-19-N	2	02721197	Leroy	Unknown	8-26-83	1,850	0	0	
Fuel Resources Dev. Co., 33-23N-19E, Fed. C-33-23-19-N	3	02721196	Leroy	Unknown	8-18-83	1,850	0	0	
Mitchell Energy Corp., 12-14N-17E, Maxwell 1-12	6	02721195	Wildcat	Unknown	12-7-82	1,750	0	0	
Mitchell Energy Corp., 33-15N-17E, Machler 1-33	6	02721194	Wildcat	Unknown	11-28-82	1,940	0	0	
Mitchell Energy Corp., 7-14N-18E, Maxwell 33-7	6	02721198	Wildcat	Unknown	6-30-83	1,591	0	0	
The Daube Co., 24-18N-14E, Seilstad 1-24	6	02721178	Wildcat	Unknown	9-10-81	5,139	0	0	
GARFIELD									
Atlantic Richfield Co., 33-15N-35E, BNRR-Coastal 1-33	6	03321072	Wildcat	NA	1-22-83	9,724	0	0	
Cenex, 26-15N-30E, USA Madison 5-26	1	03321093	Cat Creek	Piper-Amsden	11-7-83	4,033	11	0	
Jerry L. Branch, 21-15N-30E, Hunt 10-21-2	3	03321089	Mosby Dome	Unknown	9-25-82	1,550	0	0	
R. Allen, 32-15N-33E, Thomas-Federal Land Bank 32-10	6	03321092	Wildcat	Unknown	9-10-83	5,350	0	0	
Sun Exploration, 16-16N-44E, Beaver Coulee State #1	6	03321082	Wildcat	Unknown	4-16-83	9,700	0	0	
GLACIER									
Beren Corp., 19-37N-8W, Blackfeet #2	1	03522292	Landslide Butte	Unknown	2-8-83	5,232	0	0	
Berenergy, 31-37N-8W, Tribal B 31-1	6	03521621	Wildcat	Unknown	3-8-83	5,004	0	0	
Berenergy, 32-37N-8W, Tribal C 32-1	4	03521620	Wildcat	Unknown	3-9-83	5,371	0	0	
Berenergy, 16-36N-8W, Tribal Lahr 16-1	6	03521627	Wildcat	Unknown	6-15-83	4,854	0	0	
Berenergy, 30-37N-8W, Tribal A 30-1	4	03521662	Wildcat	Madison	4-18-83	5,200	22	0	
Cenergy Exploration Co., 32-37N-9W, Warren Swenson 1-32	6	03521643	Wildcat	Unknown	11-18-83	5,775	0	0	
Comanche Drilling Co., 22-34N-6W, Fed. #1	1	03521596	Cut Bank	Cut Bank	6-8-83	3,018	2	0	
Comanche Drilling Co., 23-37N-5W, Dial 5-23	1	03521653	Graben Coulee	Lower Cut Bank	11-10-83	2,670	35	0	
Croft Petroleum Co., 11-37N-6W, USA 1-4	1	03521629	Blackfoot Cut Bank M	Cut Bank	6-21-83	3,533	17	0	
Fulton Producing Co., 36-37N-6W, Hyland State 44-36	3	03521623	Cut Bank	Unknown	2-3-83	5,400	0	0	
General Well Service, Inc., 4-36N-5W, Bilstad #2	3	03521661	Cut Bank	Unknown	12-23-83	2,868	0	0	
Gypsy Highview Gathering System, 23-37N-5W, Kruger 12	1	03521648	Cut Bank	Cut Bank	10-19-83	2,695	5	0	
Gypsy Highview Gathering System, 23-37N-5W, Kruger #4	1	03521637	Cut Bank	Cut Bank	8-13-83	2,608	9	0	
Gypsy Highview Gathering System, 23-37N-5W, Kruger 17	1	03521652	Cut Bank	Cut Bank	10-25-83	2,795	6	0	
Husky Oil Co., 32-33N-11W, Gulf-Mercier #1	6	03521628	Wildcat	Unknown	12-12-83	10,990	0	0	
Kye Trout, Jr., 36-32N-6W, Rieckhoff A 13-W	7	03521640	Cut Bank	Unknown	9-8-83	3,454	0	0	
Mountain States Resources Inc., 16-37N-5W, State 16-5	4	03521584	Wildcat	Sunburst	11-18-81	3,019	0	0	
Mountain States Resources Inc., 16-37N-5W, State 16-4	7	03521585	Wildcat	Madison	11-10-81	3,036	0	0	
Mountain States Resources Inc., 3-37N-5W, Exxon/McAlpine #9	1	03521625	Graben Coulee	Upper Cut Bank Sand	5-25-83	2,830	3	0	
Roundup Resources Inc., 23-37N-6W, Jonas Vasboe 4-23	5	03521624	Wildcat	Dakota	3-4-83	2,545	0	0	
Union Oil Co. of Calif., 32-34N-5W, SCCBSU 18A-3X	8	03521616	Cut Bank	Unknown	10-27-83	2,825	0	0	
Union Oil Co. of Calif., 6-33N-5W, SCCBSU 19b-9	8	03521608	Cut Bank	Unknown	10-28-83	2,905	0	0	
Union Oil Co. of Calif., 31-34N-5W, SCCBSU 15-1X	8	03521610	Cut Bank	Unknown	10-28-83	2,856	0	0	
Union Oil Co. of Calif., 1-33N-6W, SCCBSU 26-1X	8	03521606	Cut Bank	Unknown	10-26-83	2,955	0	0	
Union Oil Co. of Calif., 6-33N-5W, SCCBSU 25a-2X	8	03521609	Cut Bank	Unknown	10-26-83	2,936	0	0	
Union Oil Co. of Calif., 32-34N-5W, SCCBSU 18b-5	8	03521615	Cut Bank	Unknown	10-27-83	2,795	0	0	
Union Oil Co. of Calif., 31-34N-5W, SCCBSU 17A-1X	8	03521613	Cut Bank	Unknown	10-27-83	2,853	0	0	
Union Oil Co. of Calif., 6-33N-5W, SCCBSU 25a-4	8	03521601	Cut Bank	Unknown	10-26-83	2,851	0	0	
Union Oil Co. of Calif., 4-37N-7W, Tribal 355, 53-14	1	03521656	Reagan	Madison	12-22-83	3,750	10	0	
GOLDEN VALLEY									
Concept Resources, 12-4N-17E, Gugler 12-4	6	03721051	Wildcat	Unknown	5-22-81	4,480	0	0	
Concept Resources, 34-4N-18E, 2 Kalberg 34-7	6	03721059	Wildcat	Unknown	8-27-81	3,759	0	0	
HILL									
Crescent Petroleum Corp., 2-33N-9E, Texaco-Bradford #1-2	6	04122231	Wildcat	Unknown	9-27-83	3,494	0	0	
Elenburg Exploration, Inc., 33-31N-17E, Olson 33-17 #2	2	04122263	Tiger Ridge	Eagle	2-3-83	1,645	0	120	
J. Burns Brown & 5B Oil & Gas Co., 26-33N-14E, C&K 26-33-14	3	04122266	Badlands	Unknown	7-2-83	1,100	0	0	
J. Burns Brown & 5B Oil & Gas Co., 13-32N-15E, Sands 13-32-15	2	04122265	Tiger Ridge	Unknown	4-14-83	1,196	0	0	
J. Burns Brown, 33-34N-16E, Randall 33-34-16-7	6	04122269	Wildcat	Unknown	11-5-83	1,591	0	0	
Montana Power Co., 9-37N-8E, Wicks 2-9	6	04122260	Wildcat	Unknown	1-18-83	3,680	0	0	
Petq, Inc., 13-34N-11E, Sprague 21-13	6	04122261	Wildcat	Unknown	1-8-83	3,850	0	0	
Petq, Inc., 35-35N-11E, Knutson 31-35	8	04122238	Wildcat	Unknown	3-26-83	3,976	0	0	
Probe Oil Co., 23-34N-12E, Woeppl 23-6	6	04122262	Wildcat	Unknown	6-4-83	1,220	0	0	
Tricentral United States Inc., 34-32N-17E, O'Neil 34-11	3	04122267	Tiger Ridge	Unknown	8-23-83	1,842	0	0	

1983-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
JUDITH BASIN								
The Daube Co., 32-17N-14E, Todd 1-32	6	04521017	Wildcat	Unknown	10-8-81	5,514	0	0
LEWIS AND CLARK								
Mosbacher Production, 33-20N-5W, State 33-1	6	04921007	Wildcat	Unknown	12-14-82	7,720	0	0
Sun Exploration & Production Co., 9-19N-8W, J.B. Long 1-9	6	04921006	Wildcat	Unknown	12-25-83	12,100	0	0
LIBERTY								
Comanche Drilling Co., 14-33N-4E, Laas 24-14	3	05121640	Utopia	Unknown	3-19-83	2,255	0	0
G.B. Coolidge, 15-34N-4E, Fed. 23-15	1	05121643	Grandview	Swift	6-17-83	2,542	8	0
General Well Service, 18-37N-6E, Robert S. Turner 2-18	5	05121637	Wildcat	Unknown	12-12-82	2,074	0	217
Jerry Branch, 34-36N-4E, Oswood 3-13-36	3	05121648	Snow Coulee	Unknown	9-9-83	1,624	0	0
Macquest Petroleum, Inc., 13-33N-4E, Laas 31-13	1	05121642	Utopia	Swift	5-31-83	2,420	0	0
Macquest Petroleum, Inc., 13-33N-4E, Laas 32-13	1	05121644	Utopia	Swift	7-15-83	2,407	15	0
Nelson G. Bingham, 7-37N-5E, Bingham 4-7	3	05121641	Flat Coulee	Unknown	4-12-83	3,285	0	0
Nelson G. Bingham, 1-36N-5E, Bons 1-2	7	05121237	Wildcat	Unknown	12-9-83	0	0	8
Shell Oil Co., 15-37N-4E, I. Wallace 41-15	1	05121646	Whitlash	Swift	11-8-83	2,915	20	0
True Oil Co., 13-33N-4E, Laas 21-13	1	05121645	Utopia	Swift	8-22-83	2,430	81	0
McCONE								
Home Petroleum Corp., 16-22N-47E, Evergreen-Hintz 1-16	3	05521159	E. Cow Creek	NA	1-23-83	6,812	0	0
Kimbark Oil & Gas Co., 9-22N-47E, Evergreen-Nasby 1-9	3	05521166	E. Cow Creek	Unknown	12-21-83	6,850	0	0
MEAGHER								
American Petrofina Co., 21-11N-4E, Manger-Skyline K #1	6	05921005	Wildcat	Unknown	6-21-82	12,039	0	0
Amoco Production Co., 7-5N-9E, Kiff Ranch BN #1	6	05921006	Wildcat	Unknown	12-20-82	9,977	0	0
MUSSELSHELL								
Alcoil Exploration, 23-11N-25E, Fed. 23-23	6	06521596	Wildcat	Unknown	9-3-81	3,495	0	0
Bison Operating Co., 25-11N-30E, NW Keg Coulee Unit 11	3	06521683	Keg Coulee	Unknown	11-2-82	8,346	0	0
Cenex, 16-8N-30E, State 6-16	6	06521678	Wildcat	Unknown	8-11-83	6,996	0	0
Conquest Exploration Co., 6-8N-25E, Salli Fed. 8-6	6	06521672	Wildcat	Unknown	5-10-83	6,500	0	0
Conquest Exploration Co., 34-8N-23E, Current Creek 2-34	6	06521670	Wildcat	Unknown	3-27-83	6,701	0	0
Dabbler Petroleum Inc., 2-8N-24E, Mariowe Ewy 13-2	3	06521682	Mason Lake Area	Unknown	11-24-83	5,011	0	0
Damson Oil Corp., 1-8N-24E, Van Arsdale Hall 11X-1	8	06521625	Mason Lake	Unknown	8-10-82	4,390	0	0
Damson Oil Corp., 3-8N-24E, Van Arsdale Hall 32X-3	1	06521664	Mason Lake Area	Armsden	6-24-83	4,901	6	0
Depco Inc., 14-11N-27E, SBM Rasmussen 44-14	6	06521684	Wildcat	Unknown	12-2-83	4,400	0	0
Dome Petroleum Corp., 9-10N-27E, Big Wall 8-9	3	06521677	Big Wall	Unknown	7-2-83	3,810	0	0
Exeter Exploration Co., 32-11N-28E, Kluzek 16-32	3	06521669	N. Big Gully	NA	2-18-83	4,020	0	0
Exeter Exploration Co., 2-10N-27E, Hall 14-2R	8	06521671	Little Wall Creek	NA	5-2-83	3,845	0	0
Exeter Exploration Co., 19-10N-31E, Jennaway 3-19	6	06521675	Wildcat	Unknown	5-30-83	5,333	0	0
Exeter Exploration Co., 23-10N-30E, Harvey 15-23	6	06521676	Wildcat	Unknown	6-10-83	5,131	0	0
Golden & Land Oil Co., 24-10N-25E, Beckman 4-24	3	06521674	Wagon Box	NA	4-20-83	2,985	0	0
Marnell Resources Inc., 5-11N-24E, Mensing #1	6	06521679	Wildcat	Unknown	9-1-83	1,426	0	0
McAlester Fuel Co., 29-10N-31E, Drees 29-3R	7	06521665	Hiawatha	NA	2-8-83	5,126	0	0
McAlester Fuel Co., 3-10N-27E, BNI 3-6R	1	06521673	Little Wall Creek	Stensvad	4-14-83	3,815	13	0
Smoky Hill Exploration Co., 8-10N-28E, Bryant #1	6	06521685	Wildcat	Unknown	12-11-83	4,082	0	0
Soape Drilling Co., 24-10N-28E, Doheny-O'Leary #1	6	06521659	Wildcat	Unknown	10-17-82	4,662	0	0
PARK								
Amoco Production, 31-3N-8E, Robinson Ranch #1	6	06721007	Wildcat	Unknown	1-4-83	16,360	0	0
PETROLEUM								
Champlin Petroleum Co., 17-13N-28E, #1 Alvin C. 21A-17	6	06921101	Wildcat	NA	3-24-83	3,900	0	0
Columbia Petroleum Ltd., 12-15N-28E, Gel Oil Fund #3	1	06921092	Cat Creek	Morrison	5-7-82	2,100	33	0
Columbia Petroleum Ltd., 12-15N-28E, Gel Oil Fund #2	8	06921077	Cat Creek	Unknown	12-8-79	1,853	0	0
Columbia Petroleum Ltd., 12-15N-28E, Gel Oil Fund #5	8	06921106	Cat Creek	Unknown	10-21-83	2,125	0	0
Columbia Petroleum Ltd., 12-15N-28E, Gel Oil Fund #6	3	06921107	Cat Creek	Unknown	9-21-83	2,125	0	0
Columbia Petroleum Ltd., 12-15N-28E, Gel Oil Fund #4	1	06921105	Wildcat	NA	4-8-83	4,912	0	0
Exeter Exploration Co., 33-12N-30E, Clauson 9-33	6	06921100	Cat Creek	Unknown	6-1-66	1,500	0	0
Landheim Development Co., 12-15N-28E, Columbia Pet Ltd. #1	3	06905365	Wildcat	Unknown	4-10-83	4,268	0	0
Marmik Oil Co., 33-12N-27E, BN 1-33	6	06921095	Wildcat	Unknown	5-9-83	2,841	0	0
Mountain States Petroleum Corp., 33-16N-28E, Fed. 1-33	6	06921103	Wildcat	Unknown	6-2-83	1,824	0	0
Mountain States Petroleum Corp., 33-16N-28E, Fed. 2-33	6	06921104	Cat Creek	2nd Cat Creek				
				Morrison	10-23-83	2,100	7	0

1983-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
PHILLIPS								
Lawrence J. McCarthy, 35-37N-31E, Tribby 3571-2	2	07121870	E. Loring	Phillips-Bowdoin	12-15-82	1,750	0	188
Lawrence J. McCarthy, 4-37N-30E, Fed. 0470-2	2	07121873	Loring Unit Tract A	Phillips-Bowdoin	12-9-82	2,050	0	266
Lawrence J. McCarthy, 16-36N-30E, State of MT 1660-2	2	07121898	Loring Unit	Bowdoin Greenhorn				
				Phillips	10-31-83	1,620	0	205
Midlands Gas Corp., 32-34N-32E, Fed. 3242-2	2	07121872	Bowdoin	Phillips-Greenhorn	1-25-83	1,300	0	687
Midlands Gas Corp., 24-34N-31E, Fed. 2441-2	2	07121871	Bowdoin	Greenhorn-Phillips	1-6-83	1,350	0	580
Midlands Gas Corp., 11-32N-31E, Unit 1121-2	2	07121875	Bowdoin	Phillips	8-25-83	1,375	0	1,041
Midlands Gas Corp., 21-31N-32E, Unit 2112-2	2	07121887	Bowdoin	Phillips	9-3-83	1,330	0	806
Midlands Gas Corp., 33-37N-30E, Unit 3370-2	2	07121874	Bowdoin	Bowdoin	8-27-83	1,850	0	481
Midlands Gas Corp., 9-36N-30E, Unit 0960-2	2	07121883	Bowdoin	Bowdoin	8-31-83	1,700	0	584
Midlands Gas Corp., 13-32N-31E, Fed. 1321-2	2	07121878	Bowdoin	Phillips	8-25-83	1,325	0	1,463
Midlands Gas Corp., 2-34N-31E, Unit 0241-2	2	07121879	Bowdoin	Phillips	9-3-83	1,400	0	575
Midlands Gas Corp., 15-36N-30E, Unit 1560-2	2	07121884	Bowdoin	Phillips-Bowdoin	8-30-83	1,700	0	379
Midlands Gas Corp., 10-36N-30E, Unit 1060-2	2	07121881	Bowdoin	Bowdoin	8-31-83	1,700	0	548
Midlands Gas Corp., 2-36N-30E, Unit 0260-2	2	07121888	Bowdoin	Bowdoin	9-1-83	1,800	0	612
Midlands Gas Corp., 35-35N-31E, Unit 3551-2	2	07121880	Bowdoin	Bowdoin-Greenhorn-				
				Phillips	8-27-83	1,400	0	552
Midlands Gas Corp., 5-36N-31E, Unit 0561-2	2	07121886	Bowdoin	Bowdoin-Greenhorn-				
				Phillips	8-29-83	1,950	0	904
Midlands Gas Corp., 14-34N-31E, Unit 1441-2	2	07121877	Bowdoin	Bowdoin	9-2-83	1,750	0	261
Midlands Gas Corp., 14-36N-31E, Unit 1461-2	2	07121885	Bowdoin	Phillips	8-26-83	1,450	0	220
Midlands Gas Corp., 8-36N-31E, Fed. 0861-2	2	07121882	Loring Unit	Bowdoin & Phillips	8-29-83	1,850	0	1,451
Midlands Gas Corp., 22-35N-31E, Fed. 2251-2	2	07121876	Whitewater Unit	Greenhorn & Phillips	9-2-83	1,550	0	269
P.O.I. Energy Inc., 34-28N-31E, Bruckner et al #1	6	07121773	Wildcat	Unknown	7-26-81	2,274	0	0
P.O.I. Energy Inc., 25-27N-29E, Fed. 1278-25 #1	8	07121782	Wildcat	Unknown	9-26-81	2,375	0	0
P.O.I. Energy Inc., 12-28N-30E, Ruud #1	6	07121774	Wildcat	Unknown	7-23-81	2,272	0	0
P.O.I. Energy Inc., 33-32N-31E, State Hi. #1	6	07121778	Wildcat	Unknown	10-10-83	2,200	0	0
Petroleum Corp. of America, 29-37N-31E, Fed. 2971-2	2	07121889	E. Loring	Bowdoin-Greenhorn-				
				Phillips	8-13-83	1,900	0	1,522
Petroleum Corp. of America, 32-37N-31E, Fed. 3271-2	2	07121892	E. Loring	Bowdoin-Greenhorn-				
				Phillips	8-15-83	1,900	0	1,072
Petroleum Corp. of America, 31-37N-31E, Fed. 3171-2	2	07121891	E. Loring	Bowdoin-Greenhorn-				
				Phillips	8-16-83	1,900	0	971
Petroleum Corp. of America, 30-37N-31E, Fed. 3071-2	2	07121890	E. Loring	Bowdoin-Greenhorn-				
				Phillips	8-15-83	1,900	0	557
S & J Operating Co., 16-34N-32E, 1642-2	2	07121846	Whitewater Unit	Phillips	10-6-83	1,600	0	138
S & J Operating Co., 36-34N-31E, 3641-2	2	07121845	Whitewater Unit	Phillips	10-6-83	1,299	0	727
S & J Operating Co., 18-35N-32E, Fed. 1852-2	2	07121897	Bowdoin	Phillips	10-6-83	1,700	0	486
Southland Royalty Co., 19-36N-31E, Fed. 1961-2	2	07121894	Loring Unit	Phillips-Bowdoin	9-9-83	1,650	0	263
Southland Royalty Co., 8-35N-32E, Fed. 0852-2	2	07121895	E. Loring	Phillips	9-8-83	1,670	0	642
Southland Royalty Co., 27-36N-31E, Fed. 2761-2	2	07121893	Loring Unit	Phillips-Bowdoin	9-8-83	1,600	0	179
PONDERA								
Balcron Oil Co., 12-29N-1W, McCracken 6B-12	3	07321661	Ledger	Unknown	5-28-83	2,235	0	0
D & H Enterprises, 31-28N-4W, Kellogg #6	1	07321664	Pondera	Madison	7-16-83	2,126	16	0
D & H Enterprises, 31-28N-4W, Kellogg #5	1	07321660	Pondera	Madison	6-10-83	2,175	4	0
D & H Enterprises, 31-28N-4W, Kellogg #7	1	07321666	Pondera	Madison	8-26-83	2,179	14	0
Diamond Shamrock Corp., 14-30N-2W, Fed. 22-14	5	07321667	Wildcat	Bow Island	9-17-83	1,280	0	838
Diamond Shamrock Corp., 24-30N-2W, State 41-24	5	07321665	Wildcat	3rd Bow Island	9-17-83	1,130	0	2,220
Diamond Shamrock Corp., 13-30N-2W, Fed. 21-13	5	07321593	Wildcat	3rd Bow Island	8-29-83	1,161	0	539
George L. Campanella, 5-27N-4W, Aakre #7	7	07321657	Pondera Field	Madison	4-5-83	2,156	0	0
George L. Campanella, 5-27N-4W, Aakre #9	1	07321668	Pondera Field	Madison	11-30-83	2,088	65	0
Grae Exploration Inc., 29-28N-6W, Hoyt 14-29	1	07321404	N. Gypsy	Madison	3-29-80	3,361	65	100
Grae Exploration Inc., 32-28N-6W, Hoyt 48C-32	1	07321428	N. Gypsy	Madison	6-20-80	5,115	3	100
J.H. Agen, 31-28N-4W, Kellogg #4	1	07321658	Pondera Field	Madison	4-29-83	2,112	0	0
Milan R. Ayers, 35-28N-5W, Kellogg 2C-35	6	07321592	Wildcat	Unknown	2-15-82	2,337	0	0
Monterrey Petroleum Corp., 13-26N-2E, McLean 8-13	3	07321656	Hardpan	Unknown	1-19-83	968	0	0
Mountain States Resources, 31-28N-6W, Bills 18B	1	07321649	Gypsy Basin	Madison	11-23-82	3,270	3	40
Mountain States Resources, 31-28N-6W, Bills 16B	1	07321646	Gypsy Basin	Madison	11-4-82	3,370	3	0
Mountain States Resources, 34-28N-6W, State 34-12	1	07321641	Highview	Madison	10-12-82	3,280	9	0
Mountain States Resources, 34-28N-6W, Larson Swanson 34-13	1	07321166	Highview	Madison Sun River	5-27-83	3,270	8	0
Mountain States Resources, 31-28N-6W, Bills 17B	2	07321652	Gypsy Basin	Madison	12-7-82	3,252	0	237

1983-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	
Mountain States Resources, 34-28N-6W, State 34-6	1	07321653	Highview	Unknown	12-16-82	3,225	7	0	
Mountain States Resources, 34-28N-6W, State 34-15	1	07321655	Highview	Madison	1-21-83	3,312	5	0	
Mountain States Resources, 34-28N-6W, Larson Swanson 34-11	1	07321654	Highview	Madison	1-9-83	3,185	4	80	
Mountain States Resources, 34-28N-6W, State 34-14	1	07321639	Highview	Unknown	10-3-82	3,280	9	0	
Robert B. Emrick, 15-27N-2W, L. Johnson & Sons, Ltd. 4C-15	3	07321571	Brady	Unknown	1-29-83	1,681	0	0	
Virgil R. Chamberlain, 29-28N-6W, Stromsvold-McQuest 15B-29	1	07321429	N. Gypsy Basin	Sunburst	6-18-80	3,585	4	0	
Western Reserves Inc., 35-28N-1W, Wood 11-35	5	07321659	Wildcat	Unknown	4-29-83	1,080	0	0	
Western Reserves Inc., 34-29N-6W, Field 9-34	3	07321662	E. Crocker Springs	Unknown	6-17-83	3,510	0	0	
Western Reserves Inc., 6-29N-3W, Marias 4-6	5	07321643	Wildcat	4th Bow Island	11-4-82	1,614	0	106	
POWDER RIVER									
Champlin Petroleum Co., 30-9S-46E, Fed. 14E-30 #1	6	07522095	Wildcat	Unknown	2-4-82	9,800	0	0	
Ensourc Inc., 16-7S-50E, Baldy Peak Unit #1	6	07522104	Wildcat	Unknown	6-30-83	7,681	0	0	
Gary Energy Corp., 13-9S-53E, Unit E 13-27	1	07522075	Bell Creek	Muddy	1-6-81	4,451	7	0	
Gary Energy Corp., 27-8S-54E, Muddy Sand Unit A C-2X	8	07522108	Bell Creek	Muddy	11-19-83	4,540	0	0	
Gary Energy Corp., 28-8S-54E, Muddy Sand Unit B 28-29	1	07522107	Bell Creek	Muddy Sand	11-23-83	4,560	0	0	
Macquest Resources, Inc., 13-1S-49E, BN 1-13	3	07522072	Pumpkin Creek	Unknown	10-18-80	2,937	0	0	
Macquest Resources, Inc., 12-1S-49E, Allen 1-12	3	07522071	Pumpkin Creek	Unknown	10-11-80	2,909	0	0	
Marmik Oil Co., 2-5S-51E, Fed. 16-2	6	07522027	Wildcat	Unknown	2-28-79	2,820	0	0	
Oxy Petroleum, 28-9S-51E, Texas Gas Fed. 1-28	6	07522098	Wildcat	Unknown	12-21-82	7,815	0	0	
PRAIRIE									
Shell Oil, 13-12N-56E, Unit 11X-13B	1	07921030	N. Pine	Stoney Mountain	3-7-83	8,901	105	0	
RICHLAND									
Balco Inc., 17-24N-59E, Linde 1-17R SWD	7	08321466	Second Creek	Lakota	12-13-82	12,945	0	0	
Cenergy Exploration Co., 28-23N-54E, Steward 1-28	6	08321677	Wildcat	NA	4-1-83	11,780	0	0	
Cenergy Exploration Co., 4-23N-55E, Williams 1-4 ***	4	08321676	E. Red Water	Red River	4-1-83	12,100	729	0	
Cenergy Exploration Co., 27-26N-59E, Rasmussen 27-1	1	08321674	Nohly	Red River	8-15-83	13,050	137	0	
Cenergy Exploration Co., 36-24N-55E, State 1-36	3	08321680	N. Lambert	Unknown	7-2-83	12,325	0	0	
Champlin Petroleum Co., 10-27N-56E, Colwell/Culbertson 42-10 #1	6	08321417	Wildcat	Unknown	4-20-83	12,341	0	0	
Champlin Petroleum Co., 21-26N-56E, Baxter 21-21 #1	6	08321549	Wildcat	Unknown	10-4-81	12,250	0	0	
Coastal Oil & Gas Corp., 21-23N-55E, BN #1	6	08321678	Wildcat	Unknown	4-30-83	12,023	0	0	
Coastal Oil & Gas Corp., 35-21N-59E, BN #1	6	08321652	Wildcat	Unknown	11-2-82	12,630	0	0	
Conoco Inc., 32-25N-58E, Lois Roberta Bailly 32-2	1	08321660	Sioux Pass Area	Red River	3-31-83	12,710	101	0	
Consolidated Oil & Gas Co., 20-25N-59E, Vanderhoff et al 1-20	1	08321673	Fairview	Red River	4-6-83	12,850	439	0	
Flare Energy Corp., 6-25N-59E, Borg 4X-6	1	08321646	S. Otis Crk Area	Red River	10-1-82	12,754	86	0	
Gulf Oil Corp., 6-21N-56E, Theissen 1-6-3D	3	08321691	Undesignated	Unknown	12-12-83	9,144	0	0	
HNG Oil Co., 17-26N-54E, Fed. Foss 17 COM #1	1	08321663	Mona	Red River	11-21-82	11,450	8	1,100	
HNG Oil Co., 9-26N-54E, Miller Fed. 9 COM #1	1	08321664	Mona	Red River	1-7-83	11,370	42	0	
Husky Oil Co., 30-27N-54E, Canterra-Foss 4-30	8	08321658	Wildcat	NA	1-26-83	11,483	0	0	
Husky Oil Co., 35-27N-53E, Fee-Schmitz 4-35	6	08321617	Wildcat	Unknown	5-16-83	11,028	0	0	
Ladd Petroleum Corp., 11-25N-59E, Hopperstad 11-44	1	08321670	Fairview Area	Red River	3-7-83	13,090	583	0	
Luff Exploration Co., 7-25N-59E, Doyle H-7 **	4	08321661	Wildcat	Mission Canyon-					
				Ratcliffe	1-29-83	9,400	78	0	
Luff Exploration Co., 28-26N-57E, Sundheim A-28	6	08321601	Middle Sioux Pass	Unknown	10-23-82	12,915	0	0	
Luff Exploration Co., 18-26N-58E, Fed. A-18	6	08321689	N. Sioux Pass	Unknown	11-2-83	12,680	0	0	
Milestone Petroleum, Inc., 7-25N-57E, BN 22-7	3	08321653	Blue Hill	NA	1-6-83	12,790	0	0	
Milestone Petroleum, Inc., 5-21N-59E, BN 44-5 ***	4	08321672	Wildcat	Stoney Mountain	5-20-83	12,375	157	0	
Milestone Petroleum, Inc., 29-22N-58E, BN 33-29	4	08321669	Wildcat	Madison	6-2-83	12,206	156	0	
Milestone Petroleum, Inc., 28-22N-58E, Ahlquist-Stewart 11-28 *	1	08321688	N. Fox Creek	Upper Ratcliffe	10-2-83	9,375	15	0	
Milestone Petroleum, Inc., 4-21N-59E, Degrn 14-4	1	08321683	Gossett Area	Red River	10-20-83	12,407	454	0	
Pennzoil Co., 20-26N-59E, Meldahl #1	6	08321667	Wildcat	NA	1-10-83	13,150	0	0	
Pennzoil Co., 5-23N-57E, Franz #3	3	08321629	S. Fork	Unknown	2-15-83	9,617	0	0	
Pennzoil Co., 4-23N-59E, Leo #2	1	08321682	Canal	Madison	8-11-83	9,750	329	0	
Sun Exploration, 6-23N-58E, Norgaard #1	1	08321675	Brorson	Bakken	8-16-83	12,600	62	0	
Sun Exploration, 2-23N-57E, 4-J Ranch #1	3	08321690	Epworth	Unknown	12-6-83	12,700	0	0	
Superior Oil Co., 20-25N-59E, Vanderhoff D #1	1	08321684	Fairview	Red River	12-31-83	12,697	112	0	
Tenneco Oil Co., 33-23N-57E, Obergfell 1-33	3	08321352	E. Putnam	Unknown	4-11-80	12,661	0	0	
Texaco Inc., 1-22N-59E, C.S. Lien (NCT-1) #2	1	08321656	W. Mondak	Ratcliffe-Mission					
				Canyon	2-5-83	12,405	165	0	
Transcontinental Oil Corp., 13-24N-59E, Harry Deming 13-42	4	08321666	Wildcat	Madison	3-26-83	9,733	69	0	

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COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
							Oil B/D	Gas MCF/D
Union Texas Petroleum Corp., 28-25N-56E, Hardscrable 1-28 ***	4	08321649	Wildcat	Red River	1-10-83	12,600	154	0
Union Texas Petroleum Corp., 24-26N-54E, Stepler 1-24	3	08321515	N. Stampede	Unknown	5-11-82	11,776	0	0
ROOSEVELT								
Buckhorn Petroleum Co., 16-29N-52E, Swanson 8-16	6	08521409	Wildcat	Unknown	5-20-83	10,350	0	0
BWAB, Inc., 24-26N-50E, Tribal 1-24	6	08521417	Wildcat	Unknown	5-24-83	7,476	0	0
Century Oil & Gas Corp., 8-29N-50E, Foote 8-5	1	08521395	N.W. Poplar	Charles	2-10-83	6,435	15	0
Century Oil & Gas Corp., 20-29N-50E, Clark 20-9	1	08521401	N.W. Poplar	Charles	2-24-83	9,052	52	0
Century Oil & Gas Corp., 22-29N-50E, Robbins 22-15	1	08521379	N.W. Poplar	Charles	1-9-83	6,030	95	0
Century Oil & Gas Corp., 22-29N-50E, Graybull 22-11	8	08521412	N.W. Poplar	Unknown	5-3-83	6,060	0	0
Century Oil & Gas Corp., 7-29N-50E, Mason 1-R	1	08521020	N.W. Poplar	Charles	4-18-83	6,310	15	0
Century Oil & Gas Corp., 20-29N-50E, Mason 20-7	1	08521415	N.W. Poplar	Nisku	7-1-83	7,572	44	0
Clayton W. Williams, Jr., 31-31N-51E, Swank 1-31	6	08521427	Wildcat	Unknown	9-17-83	8,726	0	0
Dreiling Ltd., 12-30N-47E, Sethre Farms 12-1	6	08521434	Wildcat	Unknown	10-16-83	7,727	0	0
Enserch Exploration, Inc., 15-29N-48E, Rada 1-15	6	08521424	Wildcat	Unknown	9-26-83	7,950	0	0
Enserch Exploration, Inc., 15-30N-49E, Fed. 2-15	6	08521385	Wildcat	Unknown	9-20-82	125	0	0
Exeter Exploration Co., 3-29N-58E, Picard 16-3	1	08521426	Target	Ratcliffe	11-2-83	9,748	113	0
Hunt Oil Co., 23-32N-47E, Sioux Tribal 23-7	6	08521260	Wildcat	Unknown	2-15-81	8,586	0	0
Hunt Oil Co., 10-32N-47E, Mann 1-10	6	08521420	Wildcat	Unknown	6-3-83	8,000	0	0
John L. Cox, 28-30N-48E, Box Elder #1	6	08521410	Wildcat	NA	2-14-83	7,775	0	0
Mission Ridge Enterprise, 26-31N-54E, Schnitzler Corp #1 ***	4	08521402	Wildcat	Red River	2-10-83	11,375	50	0
Mission Ridge Enterprise, 35-31N-54E, Harvey-Gray 1-35	6	08521411	Wildcat	NA	3-4-83	11,375	0	0
Patrick Petroleum Corp. of Mich., 33-30N-58E, Picard 11-33	6	08521422	Wildcat	Unknown	7-13-83	12,800	0	0
Petroleum Inc., 36-31N-47E, Blacktail #1	3	08521387	E. Benrud	Unknown	8-9-82	7,680	0	0
Phillips Oil Co., 28-30N-50E, Long Creek 1-28	1	08521396	N.W. Poplar	Charles C	3-30-83	9,428	137	0
Phillips Oil Co., 32-30N-50E, Long Creek 1-32	1	08521423	N.W. Poplar	Charles C	10-15-83	6,400	131	0
Probe Oil Co., 16-31N-48E, Tribal #1 **	4	08521397	Wildcat	Nisku	2-18-83	7,864	55	0
Puma Petroleum Co., 31-29N-59E, Timinenko 1-31	1	08521431	Red Bank	Red River	12-9-83	13,022	82	0
Reed Resources, 28-31N-46E, Heinrichs #1	6	08521421	Wildcat	Unknown	6-6-83	7,530	0	0
Sun Oil Co., 17-29N-58E, M. Vannatta A #1	8	08521322	E. Burget	NA	4-9-83	9,535	0	0
Transcontinental Oil Corp., 28-28N-58E, Leo Robinson 28-10	1	08521406	Bainville	Red River	4-23-83	12,849	98	0
Union Oil Co. of Calif., 4-29N-49E, Clark 1-M4	3	08521408	Palomino	NA	3-4-83	7,600	0	0
ROSEBUD								
Conoco, Inc., 10-12N-32E, Kincheloe 10 #1	6	08721521	Wildcat	NA	2-18-83	5,404	0	0
Conoco, Inc., 25-12N-32E, Raymond 25-6	3	08721526	Rattler Butte	Unknown	7-15-83	6,550	0	0
Davis Oil Co., 20-7S-43E, Rosebud #1	6	08721518	Wildcat	NA	2-16-83	7,500	0	0
E. Doyle Huckabay, Ltd., 2-11N-31E, Stensvad 11-2	6	08721533	Wildcat	Unknown	11-18-83	5,464	0	0
Eastern American Energy Corp., 34-10N-33E, Kesterson #5	7	08721488	Hibbard	Unknown	2-22-82	4,922	0	0
Exeter Exploration Co., 30-11N-32E, Kincheloe 1-30	3	08721522	Kincheloe-Sumatra	NA	2-10-83	4,702	0	0
Exeter Exploration Co., 20-11N-32E, State 13-20	3	08721524	Sumatra	Unknown	6-23-83	4,646	0	0
Gear Petroleum Co., 8-9N-32E, Midkiff 14-8	3	08721528	Injun Creek	Unknown	10-13-83	6,045	0	0
Gear Petroleum Co., 7-9N-32E, Hougou 34-7RX	1	08721539	Injun Creek	Stensvad	1-9-83	6,040	22	0
Golden & Land Oil Co., 19-11N-33E, Eich 9-19	6	08721541	Wildcat	Unknown	12-10-83	4,950	0	0
L.L. Tuck, 22-11N-31E, Dejaegher #3	3	08721530	Musselshell	Unknown	7-16-83	4,351	0	0
L.L. Tuck, 22-11N-31E, Dejaegher #1-A	1	08721536	Musselshell	Tyler	10-28-83	4,260	30	0
Mallon Oil Co., 18-12N-33E, Bender 18-9	6	08721504	Wildcat	Unknown	1-21-82	5,150	0	0
Milestone Petroleum, Inc., 33-13N-33E, BN 44-33	1	08721537	Breed Creek	Lower Tyler	11-4-83	5,060	36	0
Petroleum Inc., 2-12N-33E, Galt #1	1	08721520	Breed Creek	Tyler	1-26-83	5,000	52	0
Petroleum Inc., 2-12N-33E, Galt #2	1	08721523	Breed Creek	Tyler	5-6-83	4,987	41	0
Petroleum Inc., 34-13N-33E, Clesson #1	1	08721527	Breed Creek	Tyler	7-3-83	4,969	20	0
Petroleum Inc., 34-13N-33E, Clesson B #2	3	08721535	Breed Creek	Unknown	10-6-83	4,950	0	0
Petroleum Inc., 34-13N-33E, Clesson B #2	1	08721540	Breed Creek	Tyler C	12-22-83	4,970	70	0
Samuel Gary, 1-2N-44E, Swope 1-1	6	08721465	Wildcat-Strat	Unknown	10-4-80	2,865	0	0
Samuel Gary, 12-4N-39E, Nansel Ranch 12-3	6	08721462	Wildcat-Strat	Unknown	9-21-80	5,308	0	0
Samuel Gary, 36-3S-44E, State 36-3	6	08721468	Wildcat-Strat	Unknown	11-19-80	6,542	0	0
True Oil Co., 32-9N-33E, Grierson 41-32	6	08721525	Wildcat	Unknown	6-1-83	5,994	0	0
True Oil Co., 2-12N-33E, Berry Fed. 11-2	1	08721529	Breed Creek	Tyler B Sand	10-12-83	4,990	5	0

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COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
							Oil B/D	Gas MCF/D
SHERIDAN								
Aminoil USA, 26-31N-58E, Morin 1-26	6	09121487	Wildcat	Unknown	11-9-82	12,492	0	0
Atlantic Richfield Co., 24-32N-58E, Willie Bee #1	1	09121502	Dw yer	Red River C	7-31-83	11,700	955	0
Atlantic Richfield Co., 24-32N-58E, Arco-Willie Bee #2	1	09121509	Dwyer	Red River D & E	12-20-83	11,745	478	0
Beren Corp., 3-33N-57E, Arthur #1 ••	4	09121493	Wildcat	Ratcliffe- Mission Canyon	1-27-83	8,000	30	0
Beren Corp., 11-33N-57E, Astrup A #1	3	09121501	N. Dagmar	NA	4-5-83	7,780	0	0
Celeron Oil & Gas Co., 17-32N-55E, Martha Walling 4-17	6	09121513	Wildcat	Unknown	11-9-83	11,134	0	0
Clayton W. Williams, 6-33N-57E, Helga 1-6	6	09121486	Wildcat	Unknown	10-3-82	11,450	0	0
Czar Resources, Inc., 17-37N-57E, Tufton #2	3	09121401	Flat Lake	Unknown	9-3-81	6,770	0	0
Donald C. Slawson, 13-32N-58E, St. Clair 13-1	3	09121489	Dwyer	NA	1-7-83	11,750	0	0
Enserch Exploration, 13-34N-55E, Aasheim-Clark 1-13 •••	4	09121494	Wildcat	Red River C	2-21-83	11,050	401	0
Enserch Exploration, 11-34N-55E, Richardson Hoven 1-11	1	09121511	N. Antelope	Red River C	11-10-83	10,750	70	0
Enserch Exploration, 12-34N-55E, Hoven 1-12	1	09121500	N. Antelope Area	Red River C	5-2-83	11,040	174	0
Enserch Exploration, 13-34N-55E, Aasheim-Clark 2-13	4	09121504	Wildcat	Red River C	7-1-83	10,800	144	0
Enserch Exploration, 12-34N-55E, Aasheim-Nelson 2-12	1	09121516	N. Antelope	Red River	11-24-83	10,780	123	0
Farmers Union Central Exchange, 14-31N-57E, Ostby 5-14	6	09121497	Wildcat	NA	2-22-83	11,975	0	0
Farmers Union Central Exchange, 14-31N-57E, USA 15-14 •••	1	09121492	W. Sunnyhill	Red River	3-8-83	12,346	210	0
Farmers Union Central Exchange, 11-32N-58E, Sorenson 1-11	1	09121499	Dwyer	Red River	5-28-83	11,500	60	0
Grace Petroleum Corp., 27-36N-52E, Loucks 27-8	6	09121320	Wildcat	Unknown	3-19-81	10,021	0	0
Lear Petroleum Exploration, 20-34N-58E, Rufus-Gulf #1	6	09121413	Wildcat	Unknown	8-30-82	7,610	0	0
Luff Exploration, 4-36N-53E, Sisters of Charity J-4	6	09121518	Wildcat	Unknown	11-22-83	10,090	0	0
Monsanto Oil Co., 9-32N-59E, Cynthia K #1	1	09121498	Dwyer	Ratcliffe	7-11-83	12,000	33	0
Oxy Petroleum, Inc., 22-34N-53E, Tipperary Krogstad 1-22	3	09121495	Malcom Creek	Unknown	1-13-83	8,065	0	0
Phillips Petroleum Co., 13-32N-58E, Dwyer Unit 7-3	1	09121491	Dwyer	Charles	9-15-83	11,450	8	0
Southport Exploration, Inc., 1-34N-53E, Roy and Alisa Mann #1	6	09121507	Wildcat	Unknown	9-14-83	10,640	0	0
Sun Exploration, 12-33N-55E, Holje #1 •••	4	09121505	Wakea	Red River	9-4-83	11,175	574	0
Sun Exploration, 1-33N-55E, Brekke #1	1	09121508	Wakea	Red River	10-20-83	10,900	177	0
Sun Exploration, 24-31N-57E, Sand Creek Fed. #1	6	09121515	Wildcat	Unknown	11-26-83	8,950	0	0
Tenneco Oil Co., 8-37N-56E, Johnson 1-8	6	09121317	Wildcat	Unknown	6-30-80	10,355	0	0
The Anschutz Corp., 20-34N-58E, Harshbarger 5-29	1	09121488	Divide Area	Ratcliffe	2-16-83	7,381	40	0
Transcontinental Oil Corp., 14-36N-57E, Lagerquist 14-4	1	09121145	Comertown	Nisku	1-28-83	10,739	258	0
Trans Pecos Resources, Inc., 2-33N-55E, Hansen 1-2	4	09121484	Wildcat	Mission Canyon	7-7-83	7,520	35	0
Voyager Petroleums, Inc., 24-34N-58E, Haaven 24-13	6	09121512	Wildcat	Unknown	9-22-83	7,650	0	0
Wm. H. Hunt Trust Estate, 8-31N-58E, Torgerson #1	3	09121376	Sunnyhill	Unknown	1-23-81	9,195	0	0
Xplor Energy Corp., 14-36N-57E, Torpen 32-14	1	09121496	Comertown	Red River	3-17-83	10,770	117	0
Xplor Energy Corp., 15-36N-57E, Mantz MacDonald 1-15R	1	09121446	Comertown	Red River	8-4-83	10,883	7	0
STILLWATER								
Balcron Oil Co., 24-1S-22E, Lackman 1-24	6	09521187	Wildcat	Unknown	12-17-82	3,316	0	0
Eastern American Energy Corp., 26-5S-17E, Leithead #1	3	09521172	Ingersol Dome	Unknown	5-31-81	3,664	0	0
J. Burns Brown, 30-1S-22E, William Lackman et al #2	6	09521185	Wildcat	Unknown	10-28-81	2,875	0	0
J. Burns Brown, 29-1S-22E, William Lackman et al #1 •••	5	09521184	Wildcat	Telegraph Creek	10-16-81	1,202	0	0
TXO Production Corp., 18-4N-20E, Meins Fed. #1	6	09521186	Wildcat	Unknown	3-14-82	2,343	0	0
SWEETGRASS								
Concept Resources, 31-3N-18E, Sullivan 31-2	6	09721035	Wildcat	Unknown	11-7-81	2,557	0	0
Sun Exploration, 18-2S-16E, Strobel FLB 18-6	6	09721024	Wildcat	Unknown	7-16-83	6,735	0	0
TETON								
Aikins Drilling Co., 22-27N-4W, Bailey-Deschon #2	8	09921212	Pondera	Unknown	6-6-83	2,038	0	0
Aikins Drilling Co., 22-27N-4W, Bailey-Deschon 22-1	1	09921223	Pondera	Madison	11-22-83	2,018	7	0
Balcron Oil Co., 25-26N-4W, Smith 2A	4	09921204	Wildcat	Madison	1-23-83	1,856	3	0
Balcron Oil Co., 25-26N-4W, Smith 1A •••	4	09921203	Wildcat	Madison	1-28-83	1,863	3	0
Balcron Oil Co., 19-27N-4W, Hanson #1	1	09921216	Pondera	Madison	9-25-83	2,245	32	0
Balcron Oil Co., 4-27N-5W, State #1	1	09921217	Pondera Coulee	Madison	11-8-83	2,401	12	0
Balcron Oil Co., 4-27N-5W, Campbell 1-4	1	09921221	Pondera Coulee	Madison	10-10-83	2,503	10	0
C.C. Spencer, 9-26N-4W, L.P. Ranch Co. #1	6	09921214	Wildcat	Unknown	7-8-83	354	0	0
Compass Exploration, Inc., 12-24N-1W, Hemstad 13-12	6	09921213	Wildcat	Unknown	7-25-83	1,616	0	0
Darrel A. Lowrance, 22-27N-4W, Morris 11	1	09921211	Pondera	Madison	5-16-83	2,126	12	0
Fulton Producing Co., 25-27N-5W, Robert Rice 1-25R	1	09921210	Pondera	Madison	3-4-83	2,269	0	0
Fulton Producing Co., 33-27N-5W, Stokes 1-33	4	09921202	Wildcat	Madison	3-20-83	2,375	0	0

1983-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
Fulton Producing Co., 31-27N-4W, Home for Children 1-31	1	09921207	Pondera	Madison	3-30-83	2,221	0	0
Fulton Producing Co., 25-27N-5W, Robert Rice 1-25	3	09921206	Pondera	Unknown	2-7-83	2,267	0	0
Fulton Producing Co., 26-27N-5W, Robert Rice 1-26	1	09921219	Pondera	Madison	11-14-83	2,252	11	0
King-Sherwood Oil, 4-25N-1E, Martin #9	1	09921190	Bannatyne	Swift-Madison	1-15-83	1,575	0	0
King-Sherwood Oil, 4-25N-1E, Martin #8	1	09921186	Bannatyne	Madison	2-26-83	1,591	4	0
King-Sherwood Oil, 5-25N-1E, Skoog #2	1	09921184	Bannatyne	Madison	6-1-83	1,560	26	0
King-Sherwood Oil, 8-25N-1E, Speer C #2	1	09921183	Bannatyne	Madison	4-30-83	1,522	6	0
Mobil Oil Corp., 21-23N-8W, Serial #M-24723 F 13-21	6	09921191	Wildcat	Unknown	10-23-82	7,100	0	0
Mountain States Resources, 6-27N-6W, Bills 6-8	2	09921193	Bills Coulee	Unknown	10-19-82	3,321	0	35
Mountain States Resources, 6-27N-6W, Bills 6-12	2	09921192	Bills Coulee	Dakota-Kootenai	10-27-82	3,362	0	35
Shell Oil Co., 34-27N-6W, Halverson 12-34	6	09921199	Wildcat	Unknown	1-11-83	2,775	0	0
Shell Oil Co., 11-26N-7W, Campbell 42-11	6	09921200	Wildcat	Unknown	3-2-83	3,250	0	0
Virgil R. Chamberlain, 16-27N-5W, State 4D-16	6	09921218	Wildcat	Unknown	10-22-83	2,585	0	0
Western Reserves, Inc., 13-27N-5W, Hanson 1-13	3	09921209	Pondera	Unknown	1-25-83	2,181	0	0
Western Reserves, Inc., 12-27N-5W, Hanson 16-12	1	09921205	Pondera	Madison	1-18-83	2,180	0	0
Western Reserves, Inc., 26-27N-4W, Sanborn 9-26	3	09921201	Pondera	Unknown	1-8-83	2,129	0	0
Western Reserves, Inc., 34-27N-4W, Nelson 2-34	1	09921208	Pondera	Madison	2-18-83	2,115	0	0
Wold Oil & Gas Co., 19-27N-7W, State 42-19	6	09921222	Wildcat	Unknown	11-16-83	3,807	0	0
TOOLE								
Adrian G. Walls, 28-35N-3W, Bailey AG-A1	1	10122452	Kevin Sunburst	Madison	5-15-83	1,732	0	0
Adrian G. Walls, 32-35N-3W, Bailey Emex 1-32	2	10122453	Kevin Sunburst	Sunburst Sand	5-4-83	1,490	0	533
Adrian G. Walls, 32-35N-3W, Bailey Emex 3-32	2	10122480	Kevin Sunburst	Unknown	7-15-83	1,480	0	313
Adrian G. Walls, 31-35N-3W, Bailey Emex 2-31	3	10122474	Kevin Sunburst	Unknown	6-24-83	1,825	0	0
Adrian G. Walls, 18-34N-2W, Coyote #2	1	10122522	Kevin Sunburst	Madison	10-29-83	1,512	5	0
Adrian G. Walls, 18-34N-2W, Coyote #1	1	10122518	Kevin Sunburst	Madison	10-23-83	1,532	5	0
Balcron Oil Co., 35-36N-1W, Kleinert #5 **	4	10122458	Wildcat	Sunburst	5-20-83	1,982	3	0
Balcron Oil Co., 35-36N-1W, Kleinert #4	1	10122460	Kevin Sunburst	Sunburst	5-17-83	1,896	30	0
Balcron Oil Co., 35-36N-1W, Kleinert #3	4	10122428	Wildcat	Dakota	1-25-83	1,600	1	0
Balcron Oil Co., 17-30N-1W, Keil Ranch 2-17	5	10122459	Wildcat	Bow Island	5-30-83	917	0	1
Buffalo Jump Oil & Gas Co., 15-35N-2W, Nutter #8	1	10122444	Kevin Sunburst	Madison	4-27-83	1,601	0	0
Buffalo Jump Oil & Gas Co., 15-35N-2W, Nutter #4	1	10122078	Kevin Sunburst	Madison	9-30-81	1,574	2	0
Buffalo Jump Oil & Gas Co., 18-34N-2W, Nobody #2	1	10122481	Kevin Sunburst	Madison	7-21-83	1,522	12	0
Cavalier Petroleum, 18-34N-1W, McConochie 13-18	2	10122492	Kevin Sunburst	Unknown	9-12-83	1,463	0	76
Celsius Energy Co., 34-33N-1W, Rogers 2-34	2	10122501	Old Shelby Gas Field	Sunburst & Swift	10-6-83	1,402	0	2,756
Celsius Energy Co., 35-33N-1W, Hurley 2-35	2	10122502	Old Shelby Gas Field	Bow Island & Swift	10-7-83	1,327	0	596
Compass Exploration Inc., 36-34N-1W, State 2-36	4	10122477	Wildcat	Swift	8-7-83	1,398	3	0
Compass Exploration Inc., 25-35N-3W, Summer 9-25R	2	10122493	Kevin Sunburst	4th Bow Island	8-15-83	1,566	0	0
Compass Exploration Inc., 25-35N-3W, Summer 9-25	3	10122476	Kevin Sunburst	Unknown	8-4-83	1,542	0	0
Crescent Petroleum Corp., 31-33N-1W, Sherman #1	2	10122516	Old Shelby	Swift	10-24-83	1,399	0	1,856
Croft Petroleum Co., 31-35N-2E, McDermott #1	3	10122450	Willow Ridge	Unknown	4-13-83	2,080	0	0
Croft Petroleum Co., 9-34N-2E, State 15-9	3	10122451	Willow Ridge	Unknown	4-8-83	1,850	0	0
Croft Petroleum Co., 15-34N-2E, Kolstad #5	3	10122503	Willow Ridge	Unknown	10-10-83	3,588	0	0
Earl G. Davis Petroleum, 18-34N-2W, Nobody #1	1	10122473	Kevin Sunburst	Madison	6-22-83	1,522	24	0
Empire Explorations, Inc., 16-35N-2W, State 11	1	10122461	Kevin Sunburst	Madison	5-18-83	1,608	6	0
Frontier Exploration Co., 28-35N-3W, Bailey AG-2A	1	10122443	Kevin Sunburst	Madison	4-11-83	1,739	0	0
Frontier Exploration Co., 23-35N-2W, Fed. 23-13	1	10122475	Kevin Sunburst	Madison	6-30-83	1,550	65	0
G.B. Coolidge, 24-35N-2W, Zimmerman #6	1	10122431	Kevin Sunburst	Madison	12-11-82	1,599	20	0
G.B. Coolidge, 24-35N-2W, Zimmerman #7	1	10122499	Kevin Sunburst	Madison	9-26-83	1,595	6	0
G.B. Coolidge, 14-34N-1W, Montana Power Co. 1-14	2	10122509	Kevin Sunburst	Sunburst Swift	10-9-83	1,427	0	336
J.R. Bacon Drilling Inc., 8-34N-2W, Green 11	1	10122490	Kevin Sunburst	Madison	8-24-83	1,480	10	0
J.R. Bacon Drilling Inc., 25-35N-2W, Nepstad State 12	1	10122508	Kevin Sunburst	Madison	10-7-83	1,600	10	0
J.R. Bacon Drilling Inc., 8-34N-2W, Green 13	3	10122520	Kevin Sunburst	Unknown	11-3-83	1,507	0	0
J.R. Bacon Drilling Inc., 13-34N-2W, Donovan #3	1	10122507	Kevin Sunburst	Madison	10-12-83	1,750	2	0
J.R. Bacon Drilling Inc., 25-35N-2W, Nepstad State 11	1	10122506	Kevin Sunburst	Madison	10-6-83	1,500	10	0
J.R. Bacon Drilling Inc., 7-34N-1W, Harte 2X	2	10122528	Kevin Sunburst	Sunburst	11-17-83	1,450	0	30
J.R. Bacon Drilling Inc., 7-34N-1W, Harte 1X	1	10122527	Kevin Sunburst	Madison	12-9-83	1,504	5	0
Jerry L. Branch, 22-34N-2W, Rogers 3-22	3	10122486	Prairie Bell	Unknown	8-10-83	1,510	0	0
Jerry L. Branch, 33-31N-1E, Grant 6-33 **	5	10122392	Wildcat	Bow Island	8-30-82	997	0	1,105
Jerry L. Branch, 30-33N-2W, Atkins 2-30	2	10122483	Prairie Dell	Dakota-Sunburst	8-6-83	1,452	0	1,506

1983-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
Jerry L. Branch, 9-33N-2W, Gulf 9-9	2	10122487	Prairie Dell	3rd Bow Island	8-8-83	1,550	0	877
Jerry L. Branch, 16-31N-1W, State 11-16	5	10122496	Wildcat	Blackleaf	10-26-83	685	0	13
Jerry L. Branch, 23-34N-3W, Sigler 4-5-23	2	10122510	Kevin Sunburst	2nd Bow Island	10-16-83	1,440	0	66
Jerry L. Branch, 35-31N-1W, Kazmark 4-35	6	10122497	Wildcat	Unknown	10-28-83	1,216	0	0
Jerry L. Branch, 35-31N-1W, Kazmark #1	6	10105022	Wildcat	Unknown	10-27-83	1,045	0	0
John H. Trigg, 34-36N-3W, M-23549 1-34	3	10122434	Kevin Sunburst	Unknown	1-5-83	2,000	0	0
Michael T. Buckley, 9-37N-4W, Wilcox #4	1	10122485	Cut Bank	Cut Bank	8-5-83	2,667	12	0
Michael L. Letson—Charles H. Taylor, 12-35N-3W, Goeddertz #4	1	10106807	Kevin Sunburst	Sunburst	1983	1,730	0	0
Montana Pacific Oil & Gas Ltd., 13-35N-3W, Engstrom #3	4	10122435	Kevin Sunburst	Unknown	1-9-83	1,824	0	0
Montana Pacific Oil & Gas Ltd., 13-35N-3W, Engstrom #2	1	10122433	Kevin Sunburst	Madison	1-5-83	1,759	0	0
Montana Pacific Oil & Gas Ltd., 4-34N-2W, Fed. 4-4	2	10122437	Kevin Sunburst	Madison	2-25-83	1,550	0	0
Montana Pacific Oil & Gas Ltd., 13-34N-2W, N. Morton 24	1	10122442	Kevin Sunburst	Madison	3-6-83	1,600	0	0
Montana Pacific Oil & Gas Ltd., 4-34N-2W, Fed. 4-2-R	2	10122482	Kevin Sunburst	Madison	7-7-83	1,523	0	2,000
Montana Pacific Oil & Gas Ltd., 4-34N-2W, Fed. 4-2	3	10122449	Kevin Sunburst	Unknown	6-29-83	1,525	0	0
Northern Pacific Oil & Gas, 10-35N-3W, N. Goeddertz 1X	1	10122456	Kevin Sunburst	Madison	5-2-83	1,811	7	0
P & M Petroleum Management, 2-37N-4W, Old Border Unit 10	1	10122491	Border	Upper Cut Bank	9-15-83	2,515	12	0
Paul F. Nichols, 21-35N-2W, Halter 5 #6	3	10122498	Kevin Sunburst	Unknown	9-16-83	1,630	0	0
Quintana Petroleum Corp., 24-34N-1W, Miller 1-24	5	10122535	Wildcat	Sun, 1st Bow	12-29-83	1,453	0	182
Quintana Petroleum Corp., 28-35N-1E, Turner #1	6	10122465	Wildcat	Unknown	5-21-83	2,075	0	0
Quintana Petroleum Corp., 26-35N-1W, Anderson #1	3	10122495	Kevin Sunburst Nisku	Unknown	11-11-83	3,025	0	0
Quintana Petroleum Corp., 36-35N-1W, State 1-36 •	4	10122462	Wildcat	Nisku	6-1-83	3,372	16	0
Quintana Petroleum Corp., 18-34N-1E, L.S. Farms #1	6	10122464	Wildcat	Unknown	6-25-83	3,033	0	0
Quintana Petroleum Corp., 25-33N-1E, Wester-Morse #1	6	10122479	Wildcat	Unknown	7-15-83	3,015	0	0
Quintana Petroleum Corp., 7-34N-2E, Kanning Farms #1	6	10122467	Wildcat	Unknown	6-13-83	3,025	0	0
Ranck Oil Co., 8-36N-3W, Goeddertz DB08	5	10122438	Wildcat	Bow Island	2-24-83	1,334	0	0
Ranck Oil Co., 11-35N-2W, Ranck Place Lind 13	1	10122468	Kevin Sunburst	Madison	6-16-83	1,692	2	0
Ranck Oil Co., 11-35N-2W, Ranck Place Lind 14	1	10122469	Kevin Sunburst	Madison	6-9-83	1,727	1	2
Rimrock Drilling Co., 18-34N-2W, Nobody #3	1	10122494	Kevin Sunburst	Madison	10-4-83	1,522	0	0
Rimrock Drilling Co., 18-34N-2W, State #2	1	10122512	Kevin Sunburst	Madison	10-24-83	1,499	16	0
Rimrock Drilling Co., 18-34N-2W, State #1	1	10122488	Kevin Sunburst	Madison	8-29-83	1,544	12	0
S & W Petroleum Consultants, 7-36N-3W, Simmes BD07	2	10122466	Amanda	Bow Island	6-4-83	1,795	0	0
Somont Oil Co., 22-35N-2W, Helmerick E. LL24	1	10122445	Kevin Sunburst	Madison	4-5-83	1,512	0	0
Somont Oil Co., 30-35N-2W, Van Note #6	1	10122441	Kevin Sunburst	Madison	4-4-83	1,597	0	0
Somont Oil Co., 8-35N-2W, 680052136D #7	1	10160066	Kevin Sunburst	Unknown	6-21-83	1,660	10	0
Somont Oil Co., 9-35N-2W, Howling C F-14	3	10160059	Kevin Sunburst	Unknown	12-09-83	900	0	0
Somont Oil Co., 10-35N-2W, Somont Bruins 13X	1	10122517	Kevin Sunburst	Madison	10-22-83	1,680	3	0
Somont Oil Co., 22-35N-2W, Helmerick E. MM23	1	10122514	Kevin Sunburst	Madison	10-14-83	1,459	50	0
Somont Oil Co., 29-35N-1W, Anderson 31	1	10122524	Kevin Sunburst	Madison	11-1-83	1,500	2	0
Somont Oil Co., 22-35N-2W, Helmerick E. LL23	1	10122529	Kevin Sunburst	Madison	11-16-83	1,478	3	0
Sunburst Exploration Inc., 28-35N-4W, Park #1	3	10122440	Cut Bank	Unknown	2-26-83	1,447	0	0
Sunburst Exploration Inc., 9-35N-4W, Von Fischer #1	3	10122484	Cut Bank	Unknown	7-15-83	1,903	0	0
Sunburst Exploration Inc., 31-35N-2W, West #1	3	10122513	Kevin Sunburst	Unknown	10-20-83	1,554	0	0
Union Oil Co. of Calif., 3-37N-4W, Government 466 #5	1	10107644	Cut Bank	Upper Cut Bank	9-15-83	2,684	9	0
Western Reserves, Inc., 2-37N-2E, Fed. 2-1	6	10122430	Wildcat	Unknown	12-19-82	2,759	0	0
Western Natural Gas Co., 12-34N-2E, Peterschick 2 ••	5	10122457	Wildcat	Burwash	5-19-83	2,050	0	250
VALLEY								
Clayton W. Williams, Jr., 19-31N-45E, Raymond Sonsteng 1-19	8	10521247	Wildcat	NA	1-5-83	6,450	0	0
Clayton W. Williams, Jr., 21-31N-44E, Jacob D. Huebert 1-21	6	10521244	Wildcat	Unknown	12-13-82	6,300	0	0
D.A.S. Resource Ventures, 5-32N-37E, Valley 16-5	6	10521246	Wildcat	Unknown	12-17-82	3,731	0	0
Exxon Corp., 29-30N-44E, E.J.Lander #1	6	10521241	Wildcat	Unknown	10-31-82	6,350	0	0
Exxon Corp., 15-30N-44E, Lentzner #1	6	10521238	Wildcat	Unknown	4-29-83	6,350	0	0
Exxon Corp., 32-31N-44E, C. Reddig #1	7	10521223	Lustre	Dakota-Swift	6-7-83	4,350	0	0
Exxon Corp., 33-31N-44E, Olfert B #1	1	10521258	Lustre	Mission Canyon	5-21-83	6,350	166	0
Exxon Corp., 3-30N-44E, Tieszen Towes #2	1	10521257	Lustre	Charles C	7-29-83	6,350	111	0
Exxon Corp., 20-30N-44E, Tieszen #2	3	10521264	Lustre	Unknown	12-21-83	9,000	0	0
Exxon Corp., 34-31N-44E, Henry Beier #2	1	10521261	Lustre	Charles C	8-14-83	6,350	22	0
Sun Exploration & Production Co., 9-35N-42E, H. Lida #1	6	10521251	Wildcat	NA	3-17-83	7,190	0	0
Sun Exploration & Production Co., 27-33N-41E, E & A Fuhrman #1	6	10521253	Wildcat	Unknown	4-11-83	7,014	0	0
Sun Exploration & Production Co., 20-33N-41E, W.P. Fuhrman #1	6	10521252	Wildcat	Unknown	3-25-83	7,000	0	0

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COUNTY, OPERATOR, LOCATION, WELL NAME	STATUS CODE	API NO.	FIELD	PRODUCING FORMATION	DATE COMPLETED	TOTAL DEPTH	INITIAL POTENTIAL	
							Oil B/D	Gas MCF/D
Sun Exploration & Production Co., 31-31N-44E, J. Clark #1	1	10521249	Lustre	Mission Canyon	6-27-83	6,248	93	0
Sun Exploration & Production Co., 32-31N-44E, Sun Tribal #1	1	10521248	Lustre	Mission Canyon	6-14-83	6,245	91	0
Sun Exploration & Production Co., 19-31N-44E, Surprise Trib #1	1	10521250	Lustre Area	Mission Canyon	8-7-83	7,215	143	0
TXO Production Corp., 24-30N-45E, Schultz H #1	6	10505021	Wildcat	Unknown	9-22-83	7,462	0	0
WIBAUX								
Reading & Bates Petroleum, 26-14N-59E, Parker 1-26	6	10921037	Wildcat	Unknown	6-6-81	11,113	0	0
YELLOWSTONE								
R & J Production, 27-3S-24E, Krug #2	6	11121138	Wildcat	Unknown	6-5-81	626	0	0
R & J Production, 26-3S-24E, Mosser 10	1	11121150	Cat Creek	Mosser Sand	7-20-82	986	6	0
Y.V.C. Inc., 2-2S-23E, Markegard 1-2	6	11121154	Wildcat	NA	2-18-83	1,478	0	0

Status Codes:

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

1983-SUMMARY OF SECONDARY RECOVERY PROJECTS

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1983 Cumulative Injections M Bbls. or MMCF	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	Source of Injection Media and Remarks
Ash Creek Crow Tribal	Shannon	Mobil	Waterflood	Peripheral	10/64	256	5	1	WSW & Produced
Ash Creek Su (Mt Portion)	Shannon	Mobil	Waterflood	Peripheral	10/64	1,172	145	3	WSW & Produced
Bell Creek Tertiary Pilot	Muddy	Gary Energy	Polymer Inj	5 Spot	7/76	4,900	1,430	4	Surface
Bell Creek Tertiary Incentive	Muddy	Gary Energy	Polymer Inj	5 Spot	12/80	28,052	27,983	30	Surface
Bell Creek A	Muddy	Gary Energy	Waterflood	Peripheral	4/70	150,190	35,698	37	Madison
Bell Creek B	Muddy	Gary Energy	Waterflood	Peripheral	10/70	44,867	8,958	14	Madison
Bell Creek C	Muddy	Gary Energy	Waterflood	Peripheral	9/71	28,227	6,764	5	Madison
Bell Creek D	Muddy	Gary Energy	Waterflood	Peripheral	1/72	32,569	6,169	11	Madison
Bell Creek E	Muddy	Gary Energy	Waterflood	Peripheral	1/72	26,588	8,501	27	Madison
Bell Creek Ranch Creek	Muddy	Gary Energy	Waterflood	Peripheral	3/71	41,176	4,106	8	Madison
Big Wall BSU	Upper Tyler	Texaco	Waterflood	Random	8/66	29,599	2,586	2	Produced
Blackfoot	Cut Bank	Croft Petroleum	Waterflood	Random	7/76	1,467	726	3	Madison
Border New	Cut Bank	P & M Petroleum	Waterflood	Random	1/82	—	—	—	Madison
Border Old	Cut Bank	P & M Petroleum	Waterflood	Random	6/73	1,119	284	3	Madison
Cabin Creek	Siluro Ord	Shell	Waterflood	Semi Peripheral	6/59	224,404	28,354	29	Produced
Cat Creek East Dome	Ellis Sand	Hoss	Waterflood	Semi Peripheral	7/70	980	208	4	Third Cat Creek
Cat Creek Mosby Dome	Swift	Cenex	Waterflood	Random	7/67	5,730	698	3	Third Cat Creek
Cat Creek Mosby Amsden	Amsden	Cenex	Waterflood	Random	6/71	313	24	1	Third Cat Creek
Cat Creek Unit 1	1st Cat	Cenex	Waterflood	Semi Peripheral	10/62	6,840	331	2	Third Cat Creek
Cat Creek Unit 1	2nd Cat	Cenex	Waterflood	Semi Peripheral	10/62	8,545	1,400	3	Third Cat Creek
Cat Creek Unit 2	1st Cat	Cenex	Waterflood	Semi Peripheral	12/59	9,540	131	2	Third Cat Creek
Cat Creek Unit 2	2nd Cat	Cenex	Waterflood	Semi Peripheral	12/59	11,009	983	3	Third Cat Creek
Cut Bank Dahlquist	Cut Bank	Union Oil	Waterflood	Random	11/79	58	104	1	Madison
Cut Bank Lander A	Lander Sand	Phillips	Waterflood	Random	4/65	1,959	189	2	Madison
Cut Bank Marina	Cut Bank	P & M Petroleum	Waterflood	5 Spot	6/72	2,075	—	—	Madison
Cut Bank McGuiness	Madison	Union Oil	Waterflood	Random	12/62	6,358	1,090	1	Madison
Cut Bank N. Central	Cut Bank	Phillips	Waterflood	5 Spot	5/78	3,761	1,336	17	Madison
Cut Bank N. East	Moulton	Ralph E. Fair	Waterflood	5 Spot	6/63	5,883	131	2	Madison
Cut Bank N. East	Cut Bank	Texaco	Waterflood	Peripheral	1/62	13,409	—	—	Madison
Cut Bank N. West	Cut Bank	Phillips	Waterflood	5 Spot	1/62	18,136	860	6	Madison
Cut Bank S. Central	Cut Bank	Union Oil	Waterflood	5 Spot	5/63	42,838	3,980	30	Madison
Cut Bank S. East	Cut Bank	Texaco	Waterflood	5 Spot	4/62	62,938	3,280	1	Madison
Cut Bank S. West	Cut Bank	Phillips	Waterflood	5 Spot	9/62	112,363	10,846	55	Madison & Recycled
Cut Bank Tesoro	Cut Bank	Damson Oil	Waterflood	5 Spot	9/71	5,932	764	10	Madison & Recycled
Cut Bank Tweedy	Cut Bank	P & M Petroleum	Waterflood	5 Spot	6/72	1,200	123	1	Madison
Cut Bank Two Medicine	Cut Bank	Conoco	Waterflood	Random	12/67	54,794	4,339	38	Madison & Recycled
Darling	Cut Bank	P & M Petroleum	Waterflood	Random	2/67	—	—	—	Madison
Darling North	Moulton	Buttes Resources	Waterflood	Random	2/68	2,472	—	—	Produced
Darling South	Moulton	Buttes Resources	Waterflood	Random	2/67	7,548	—	—	Madison
Dean Dome	Greybull	Eastern Am Energy	Steam Inj	Cyclic	8/81	15	—	—	Surface
Dwyer	Charles	Phillips	Waterflood	Peripheral	10/68	4,725	32	5	Dwyer Charles
Elk Basin	Frontier	Amoco	Waterflood	Crestal	12/72	5,856	5,519	2	Produced
Elk Basin N. West	Tensleep	Arco	Waterflood	Semi Peripheral	5/76	4,961	—	—	Produced
Flat Coulee	Swift	Phillips	Waterflood	Peripheral	2/72	8,701	2,317	14	Eagle
Frannie	Tensleep	Conoco	Waterflood	Random	11/70	134,922	20,473	38	Produced
Frannie	Tensleep	Conoco	LPG Inj	Random	11/70	89,870	56,323	19	Produced
Fred & George Creek	Sunburst	Fulton	Waterflood	Random	7/76	37,085	8,293	2	Madison & Eagle
Gas City	Red River	Shell	Waterflood	Semi Peripheral	10/69	13,450	1,244	2	Mission Canyon
Goose Lake	Ratcliffe	Cotton Petroleum	Waterflood	Semi Peripheral	1/73	15,814	5,931	5	Produced
Gumbo Ridge	Tyler B	Milestone Petroleum	Waterflood	Semi Peripheral	6/80	1,326	1,254	2	Fresh & Produced
Jim Coulee	Tyler	Enstar Petroleum	Waterflood	Semi Peripheral	7/72	8,371	2,252	3	Produced Cat Creek
Keg Coulee	Tyler	Buttes Resources	Waterflood	Semi Peripheral	8/66	4,403	430	3	Madison
Keg Coulee Tyler	Tyler	Damson Oil Corp.	Waterflood	Semi Peripheral	12/69	3,609	—	—	Produced
Keg Coulee Unit	Tyler	Bison Operating	Waterflood	Semi Peripheral	1/70	7,530	—	—	Madison
Kelley	Tyler B	Enstar Petroleum	Waterflood	Random	7/69	3,472	450	1	Third Cat Creek
Kevin Sunburst	Sunburst	Texaco	Waterflood	Random	8/64	11,486	500	8	Madison
Kevin Sunburst Homestake	Sunburst	Petro Lewis	Waterflood	Random	8/64	7,345	1,098	8	Produced & WSW
Laird Creek	Swift	Milestone Petroleum	Waterflood	Semi Peripheral	2/77	805	8	1	WSW
Little Beaver	Red River	Shell Oil	Waterflood	Semi Peripheral	8/66	16,949	5,683	12	Produced
Little Beaver East	Red River	Shell Oil	Waterflood	Semi Peripheral	4/65	39,298	4,123	4	Produced
Lookout Butte Coral Creek	Red River	Shell Oil	Waterflood	Semi Peripheral	4/67	35,282	5,174	12	Minnelusa
Monarch	Siluro Ord	Shell Oil	Waterflood	UK	7/73	5,689	1,168	2	UK
Pennel	Stoney Mtn & RR	Shell Oil	Waterflood	Random	8/69	116,602	27,874	53	Dakota & Produced
Pine S. A	Siluro Ord	Shell Oil	Waterflood	Semi Peripheral	3/59	28,820	25,087	24	Fox Hills & Produced
Pine N. C & D	Red River	Shell Oil	Waterflood	Semi Peripheral	3/68	20,626	2,638	4	Lodgepole
Prichard Creek	Sunburst	Fulton Producing	Waterflood	Random	4/73	737	575	1	Eagle
Ragged Point Tyler A	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/66	8,986	1,093	5	Cat Creek
Ragged Point S. West	Tyler	Petro Lewis	Waterflood	Random	10/82	219	457	1	WSW
Raymond	Nisku	Santa Fe Energy	CO ₂ Inj	UK	8/83	96	630	1	Duperow

1983-SUMMARY (CONTINUED)

Field	Formation	Operator	Type of Project	Injection Pattern	Date Inj. Com.	1983	Avg. Daily Inj. Rate Bbls. or MCF	No. of Inj. Wells	Source of Injection Media and Remarks
						Cumulative Injections M Bbls. or MMCF			
Reagan Dome	Madison	Union Oil	Waterflood	Random	7/73	3,308	1,282	5	Produced
Red Creek	Cut Bank	Exxon	Waterflood	5 Spot	6/65	19,927	9,964	9	Madison
Richey S. West	Dawson Bay & Interlake	Arco	Waterflood	Random	12/65	2,675	98	1	WSW
Roscoe Dome	Lakota	Eastern American Energy	Steam Inj	UK	5/82	5	—	—	Surface
Stensvad	Tyler	Tomahawk Oil	Waterflood	Semi Peripheral	12/63	28,428	241	2	Produced
Sumatra Central	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	110,430	27,432	16	Madison & Produced
Sumatra Grebe	Tyler	Genex	Waterflood	Random	6/75	552	—	—	Madison & Produced
Sumatra N. East	Tyler	Texaco	Waterflood	Semi Peripheral	9/69	8,246	1,405	5	Madison & Produced
Sumatra Sawyer	Tyler	Buttes Resources	Waterflood	Semi Peripheral	6/80	902	435	1	Madison
Sumatra S. East	Tyler	Buttes Resources	Waterflood	Semi Peripheral	12/69	18,577	3,660	4	Madison
Sumatra West	Tyler	Conoco	Waterflood	Semi Peripheral	10/68	42,940	10,041	8	Produced
Sumatra W. Kincheloe	Krider	Exeter	Waterflood	Semi Peripheral	6/80	2,653	3,227	6	Krider
Tippy Buttes	Tyler	True Oil	Waterflood	Random	5/82	50	90	1	Dakota
Winnett Junction	Tyler	Petro Lewis	Waterflood	Random	10/77	4,079	8,704	2	Produced & WSW

OIL AND GAS FIELDS

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
ALKALI COULEE Red River (Ord.)	1	320-acre spacing units; well location no closer than 660' from unit boundary and no closer than 1650' from well producing from the same pool. (Order 77-81).	None
ALMA Bow Island (L. Cret.) Gas	3	640-acre spacing units. Location to be no closer than 990' from spacing unit boundary. (Order 19-77).	None
ALMA, NORTH Blackleaf (L.Cret.)		Single spacing unit; (Order 95-82).	None
AMANDA Swift (U. Jur.) Gas Bow Island (Cret.)	3 4	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. (Order 25-83).	None
ANDES Red River (Ord.) Mission Canyon (Miss.)	1	Statewide.	None
ANTELOPE COULEE Blackleaf (L. Cret.) Gas	3	Statewide.	None
ANTELOPE, NORTH Red River (Ord.) Winnipegosis (Dev.)	3 1	Statewide.	None
ANVIL Red River (Ord.) Nisku (Dev.) Ratcliffe (Miss.)	8 1 1	Statewide.	Produced water disposed into the Dakota formation (Order 12-A-82)
ANVIL, NORTH Ratcliffe (Miss.) Red River	1	Statewide.	None
ARCH APEX Bow Island (L. Cret.) Gas Swift (U. Jur.) (Shut-in) Sunburst (L. Cret.) Oil	41 2 7	330' from legal subdivision; 2400' 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.	None
ASH CREEK Shannon (U. Cret.) (Shut-in)	3 5	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 (Miss.)	1	Statewide.	Produced water disposed into Dakota formation (Order 112-A-82)
BADLANDS Eagle (U. Cret.) Gas (Shut-in)	9 2	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).	None
BAINVILLE Gunton (Ord.)	1	Statewide.	None
BAINVILLE II Red River	1	320-acre spacing units; no well closer than 660 feet to the unit boundaries. (Order 36-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BAINVILLE, NORTH			
Winnipegosis (Dev.)	3	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 1650' 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).	None
Red River (Ord.)	6		
BAINVILLE, WEST			
Madison (Miss.)	1	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 1650' 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).	None
Red River (Ord.)	3		
(Shut-in)	1		
BANNATYNE			
Swift (U. Jur.)	9	Center of 10-acre tracts, 50' topographic tolerance. Commingling permitted. (Order 20-58).	Pilot waterflood of Swift suspended in 1963.
(Shut-in)	3		
BATTLE CREEK			
Eagle (U. Cret.) Gas	27	Statewide.	None
BEARS DEN			
Swift (U. Jur.) Oil	7	Statewide.	None
Gas	2		
(Shut-in)	2		
BELFRY			
Tensleep (Penn.)	(Shut-in) 1	Statewide.	None
BELL CREEK			
Muddy (L. Cret.)	Oil & Gas 210	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.)
Gas	(Shut-in) 1		
Oil	(Shut-in) 86		
BELL CREEK, SOUTHEAST			
Muddy (L. Cret.) Gas	1	160-acre spacing units, wells 660' from spacing unit boundary. (Order 31-71).	None
(Shut-in)	1		
BENRUD & AREA			
Nisku (Dev.)	2	160-acre spacing units with permitted location within a 1320' square in center of quarter section. (Order 6-65).	Water disposal into Judith River formation. (Order 64-62.)
BENRUD, EAST			
Nisku (Dev.)	3	Same as Benrud Field. (Order 6-65).	Water disposal into Judith River formation. (Orders 64-62, 32-66, 4-A-73.)
BENRUD, NORTHEAST			
Nisku (Dev.)	1	Same as Benrud Field. (Order 6-65).	Water disposal into Judith River formation. (Order 32-66.)
(Shut-in)	2		
BERTHELOTE			
Sunburst (L. Cret.)	1	Wells located 330' from lease lines; 660' between wells with no more than one well per governmental quarter-quarter section. (Order 18-66).	None
BIG COULEE			
3rd Cat Creek (L. Cret.) Gas	6	Statewide.	None
Morrison (U. Jur.) Gas	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BIG GULLY L. Tyler (Penn.)	3	Statewide.	None
BIG GULLY, NORTH L. Tyler (Penn.)	1	Statewide.	None
BIG MUDDY CREEK Interlake (Sil.) (Shut-in) Red River (Ord.) Madison	1 3 2	One well per 320-acre spacing unit with well no closer than 660 feet from boundary of four east-west units. (Order 4-75).	None
BIG ROCK Blackleaf (L. Cret.) Gas (Shut-in) Oil	23 10 10	640-acre spacing units for Blackleaf "A" formation. Location to be no closer than 990' to any governmental section line. (Order 31-78).	None
BIG WALL Amsden (Penn.) Tyler (Penn.) (Shut-in)	1 10 9	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).
BILLS COULEE Madison (Miss.) Gas (Shut-in)	4	Field without restrictions except that no well may be drilled closer than 330' from the exterior boundary of the field. (Order 22-80).	None
BLACK BUTTE Eagle (U. Cret.) Gas	2	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).	None
BLACK COULEE Eagle (U. Cret.) Gas	5	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).	None
BLACK DIAMOND Red River (Ord.) Duperow (Dev.)	1 1	320-acre spacing units; well location no closer than 660' from unit boundary. (Order 147-81).	None
BLACKFOOT Cut Bank & Madison (Shut-in) Devonian	8 1 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.)
BLACKFOOT GAS FIELD Bow Island (Cret.)	7	Single spacing unit. (Order 51-82).	None
BLACKFOOT-SHALLOW GAS Dakota (L. Cret.)	9	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).	None
BLACKLEAF CANYON Sun River (Miss.) Gas (Shut-in)	2 2	Single spacing unit with Blackleaf Federal 1-A as designated well. (Order 84-81).	None
BLACKLEAF UNIT Sun River (Miss.)	2	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).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BLACKJACK			
Sunburst (L. Cret.) Gas	11	One gas well per 160 acres, no closer than 660' from boundary of each unit. (Order 3-69). Statewide spacing. Order 3-69 amended to include Blackleaf in spacing and field rules for gas. (Order 4-74). Blackleaf gas pooled. (Order 3-75).	None
(Shut-in)	1		
Blackleaf (U. Cret.) Gas	3		
BLOOMFIELD			
Interlake and Red River (Ord.)	2	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' to spacing unit boundaries. (Order 38-83).	None
BLUE HILL			
Red River (Ord.)	1	Statewide.	None
BORDER			
Cut Bank Oil	9	Oil: Unitized into New and Old Border fields. Unitized 6-1-73. (Orders 8-73, 9-73). Gas: 330' from boundary of legal subdivision. 2,400' between wells in same formation on same lease. 75' topographic tolerance. (Order 7-54).	Waterflood approved. Orders 8-73, 9-73, 28-73.)
(Shut-in)	2		
Sunburst Gas	1		
Moulton	1		
BOULDER			
Red River (Ord.)	1	Statewide spacing. (Order 16-71).	None
BOWDOIN & AREA			
Bowdoin & Phillips sands in	547	One well per quarter section not less than 1000' from lease boundary or less than 2000' 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.)
Colorado Shale (U. Cret.) Gas	146		
(Shut-in)			
BOWES			
Eagle (U. Cret.) Gas	31	660' from boundary of legal subdivision, 1320' from other wells in same formation. 75' topographic tolerance. (Order 23-54). Order 23-54 amended by establishing 160-acre Eagle spacing units in Sec. 5, 6, 7, 8, 17, 18 31N-19E. (Order 44-75). 330' from lease or property line, 990' between wells in the same formation. (Order 13-54). Vacuum pumps authorized for Sawtooth formation wells. (Order 74-83).	Pilot waterflood initiated in 1961 and expanded to fieldwide waterflood in 1965. (Order 6-61.) Water from Madison.
(Shut-in)	9		
Sawtooth (M. Jur.) Oil	56		
(Shut-in)	35		
BOX CANYON			
Red River (Ord.)	2	Statewide.	None
BOX ELDER			
Nisku (Dev.)	1	Statewide.	None
BRADLEY			
Madison (Miss.) Oil	1	Statewide.	None
Sunburst (L. Cret.)	1		
(Shut-in)	1		
BRADY			
Sunburst (L. Cret.)	10	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).	None
BRADY, NORTH			
Morrison	9	Statewide.	None
(Shut-in)			
BREDETTE			
Charles	1	Statewide.	None
BREED CREEK			
Tyler (Penn.)	9	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
BRORSON			
Madison Canyon (Miss.)		One well per 160-acre unit, no closer than 660' from unit boundary	Produced water injected into Dakota formation. (Order 129-A-81.)
Oil & Gas	8	(Mission Canyon and Red River). (Order 5-69). Field enlargement.	
Red River (Ord.)	3	(Order 25-82). Gas to Brorson Field Plant.	
Oil & Gas	1		
(Shut-in)	1		
Bakken (Miss.)	1		
BRORSON, SOUTH			
Red River (Ord.)	3	One well per 160-acre unit, no closer than 660' from unit boundary.	None
Oil & Gas	1	(Order. 26-68). Gas to Brorson Field Plant. Reduced Field Area.	
Madison		(Order 26-77).	
BROWN'S COULEE			
Eagle (U. Cret.)	2	One well per 160-acre unit with well location no closer than 660'	None
Gas	1	from unit boundary. Commingling permitted with administrative ap-	
(Shut-in)		proval. (Order 7-74).	
BROWN'S COULEE, EAST			
Eagle (U. Cret.)	1	Statewide.	None
Gas			
BRUSH LAKE			
Red River (Ord.)	5	320-acre spacing with initial nine spacing units described in (Order	None
Oil & Gas		15-71 corrected.)	
BUFFALO FLAT			
Bow Island (L. Cret.)	6	Statewide.	None
Gas	1		
Duperow Oil	1		
(Shut-in)	1		
BUFFALO LAKE			
Sawtooth	1	Statewide.	None
BULLWACKER			
Judith River, Eagle-Virgelle		One well per 320-acre spacing unit with well location no closer than	None
(U. Cret.)	41	660' from unit boundary and 990' from field boundary. (Order	
Gas	3	26-74).	
(Shut-in)			
BURGET			
P & A'd		320-acre spacing units; well location to be no closer than 660' to	None
		unit boundary and 1650' from existing well. 150' tolerance for	
		topographic reasons. (Order 25-81).	
BURGET, EAST			
Madison (Miss.)	5	Statewide.	None
Red River (Ord.)	2		
(Shut-in)	1		
BURNS CREEK			
Red River (Ord.)	1	Statewide.	None
Duperow (Dev.)	1		
BURNS CREEK, SOUTH			
Red River	1	320-acre spacing units; well location to be no closer than 660' from	None
		unit boundary. (Order 2-82).	
BUTCHER CREEK			
Greybull (L. Cret.)		Statewide.	None
CABIN CREEK			
Unit #1 Interlake & Red River	70	Spacing waived and General Rules for (Deviation), (Commingling),	Waterflood of Siluro-Ordovician
(Siluro-Ord.)		and (Dual Completion) are suspended until present Unit Agreement	(Orders 5-59,15-60 &30-63). Produc-
(Shut-in)	17	becomes inoperative. (Order 36-62). Many wells produce from both	ed water injected into the Mission
Unit #2 Madison (Miss.)	9	Interlake and Red River by dual completions. Gas through extrac-	Canyon (Order60-62).
		tion plant.	
CAMP CREEK			
Claggett (U. Cret.)	1	Statewide.	None
Gas	2		
(Shut-in)			

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
CANADIAN COULEE			
Sawtooth (M. Jur.) Gas	1	320-acre spacing units with well location no closer than 660' from unit boundary, and 990' from field exterior boundaries. (Order 18-76).	None
(Shut-in)	4		
CANADIAN COULEE, NORTH			
Sawtooth (M. Jur.) Gas	2	640-acre spacing units. Location to be no closer than 1650' to section line. (Order 15-74).	None
CANAL			
Red River (Ord.)	1	320-acre spacing units consisting of east half and west half of governmental section. (Order 34-70).	None
Madison (Miss.)	5		
CANNON BALL			
Red River (Ord.)	1	Statewide.	None
CARLYLE			
Red River (Ord.)	2	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 1650' 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			
Amsden	2	220' from lease or property line, 440' from every other well in same formation. (Order 17-55). Three separate producing areas, East, Mosby and West Domes. Field enlargement upper and lower Brindley wells in S1 T15N R28E are to be no closer than 350' from other Morrison wells in said section. (Order 101-82).	Three Kootenai, two Ellis, and one Amsden waterflood in progress. Orders 17-56, 18-59, 13-62, 8-68, 38-70, 11-71.) Water from Third Cat Creek sand. Waterflood modified. (Order 29-74.)
Cret/Jur	16		
East Dome Swift	11		
Mosby Dome Swift	8		
West Dome 1 & 2 Cat	35		
(Shut-in)	43		
CEDAR CREEK			
Judith River (U. Cret.)	5	1200' from legal subdivision line, 2400' from every other well in same formation. (Order 33-54). 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). Field extension. (Order 23-76).	None
Eagle (U. Cret.) Gas	80		
(Shut-in)	4		
CHAIN LAKES			
Eagle (U. Cret.)	2	Statewide.	None
(Shut-in)	3		
CHARLIE CREEK			
Nisku (Dev.)	1	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 1650' from another producing well. Spacing units may not cross section lines. (Order 66-76).	None
Duperow (Dev.)	1		
Red River (Ord.)	1		
CHARLIE CREEK, EAST			
Red River (Ord.)	3	Statewide.	None
CHARLIE CREEK, NORTH			
Red River (Ord.) Gas	1	Single spacing unit. (Order 37-82).	None
Bakken	1	Statewide.	
Madison (Miss.)	1		
CHERRY PATCH			
Eagle (U. Cret.)	2	Statewide.	None
(Shut-in)			
CHESTER AREA			
Bow Island (L. Cret.)	1	Statewide.	None
CHINOOK, EAST			
Eagle (U. Cret.)	3	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
CHIP CREEK Eagle-Virgelle (U. Cret.)	3	160-acre spacing units. Location no closer than 660' from spacing unit boundary. (Order 89-76).	None
CLARK'S FORK Frontier (U. Cret.)	1	330' from quarter-quarter section line. 1320' between wells with 75' topographic tolerance. (Order 17-54).	None
CLARK'S FORK, NORTH Lakota (L. Cret.) Gas & Oil (Shut-in)	2	160-acre quarter section spacing with location no closer than 660' from spacing unit boundary. (Order 23-75).	None
CLARK'S FORK, SOUTH Greybull (L. Cret.) (Shut-in)	1 2	160-acre spacing; location no closer than 330' from quarter section line or 1320' from any other well.	None
CLEAR LAKE Red River (Ord.) Madison Nisku	7 2 2	Statewide.	Produced water disposed into Dakota, Muddy, Lakota, & Swift formation. (Orders: 41-A-80, 60-A-80, 91-A-80, 116-A-81, 123-A-81).
COAL COULEE Eagle (U. Cret.) Gas (Shut-in)	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).	None
COAL CREEK Eagle (U. Cret.) Gas	2	Statewide.	None
COAL RIDGE Mission Canyon (Miss.)		Statewide.	Produced water injected into the Dakota formation (Order 81-A-79.)
COLORED CANYON Red River (Ord.)	6	Statewide.	None
COMERTOWN Red River (Ord.) Ratcliffe (Miss.) Nisku (Dev.) Duperow (Dev.)	5 1 3 1	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).	Produced water injected into the Dakota formation (Order 107-A-82)
CONRAD BUTTE (Renamed Ledger)		(See Ledger Field)	
CONRAD SOUTH Dakota (L. Cret.)	3	10-acre spacing units. Wells in center of each unit with 75' topographic tolerance. (Orders 34-62, 31-63).	None
COW CREEK Charles (Miss.)	1	80-acre spacing units, direction at option of operator but wells to be in SW 1/4 and NE 1/4 of each quarter section. (Order 11-69).	None
COW CREEK, EAST Kibbey (Miss.)	10	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 Red River (Ord.) Duperow (Dev.)	1 4	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 1650' to any well drilling or producing from the same pool. (Order 40-79).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
CROCKER SPRINGS, EAST Madison (Miss.)	1	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).	None
CULBERTSON Red River (Ord.)	1	Statewide in part. Unitized as to SE 1/4 of Section 32, SW 1/4 of Section 33, N 1/2 NW 1/4 of Section 4, and N 1/2 NE 1/4 of Section 5. (Order 29-70).	Produced water disposed into Red River formation (Order 13-A-72.)
CUPTON Red River (Ord.) (Shut-in)	8 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.)
CUPTON, NORTH Red River (Ord.) (Shut-in)	2 1	Statewide.	None
CUPTON, SOUTH Red River (Ord.)	1	Statewide.	None
CUPTON AREA Red River (Ord.)	1	Statewide.	None
CUT BANK Kootenai (L. Cret.) Oil & Gas (Shut-in) Madison (Miss.) Oil (Shut-in) (Gas only) (Shut-in) Cut Bank (L. Cret.) Gas (Shut-in) Sunburst (L. Cret.) Gas Moulton (L. Cret.) Gas Bow Island (L. Cret.) Gas	629 223 45 11 48 186 54 2 1 1	(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, 2400' between wells in same formation. 75' topographic tolerance. (Order 10-54). Sections 20, 29, and 32 of Township 36 North, Range 4 West spaced 320-acres (N 1/2 and S 1/2). (order 26-70). 320-acre spacing units for gas; (Cut Bank) units; (E 1/2 & W 1/2) wells to be located no closer than 330' from legal subdivision line nor less than 2400' 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. (Order 68-83).	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).
DAGMAR Red River (Ord.)	5	Statewide.	None
DAGMAR, NORTH Red River (Ord.)	1	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.)
DARLING (included as part of Cut Bank Field)			
DEADMAN'S COULEE Nisku (Dev.)	4	Statewide.	Produced water injected into Judith River formation. (Order 132-A-81.)
DEAN DOME Greybull (L. Cret.) Gas (Shut-in) Oil	 1 5	Statewide. Oil ring below gas cap.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
DEER CREEK Interlake (Sil.)	1	80-acre spacing units consisting of any two adjacent quarter-quarter sections. Well location in NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance. (Orders 23-55 & 14-59). 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 & 53-A-83).
DELPHIA Amsden (Penn.)	2	Statewide.	None
DEVIL'S BASIN Heath (U. Miss.)	6	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).	None
(Shut-in)	9		
DEVON Blackleaf (U. Cret.) Gas (Shut-in)	21	160-acre spacing units with wells no closer than 330' to any quarter section line and no closer than 660' to exterior boundaries of the field. (Order 32-83).	None
Kootenai (L. Cret.) Oil Depleted			
DEVON, SOUTH Bow Island (L. Cret.) Gas	4	Drilled on statewide spacing. Unitized for primary production. (Order 28-71, corrected).	None
DIAMOND POINT Red River (Ord.)	2	320-acre spacing unit; allowing two wells to produce from the Red River or from commercial production at any depth shallower. (Order 20-80).	None
DIVIDE Madison (Miss.)	11	Statewide.	Produced water disposed into Dakota formation (Order 42-A-80, 130-A-81.)
DRY CREEK Eagle, Judith River and Frontier (U. Cret.) Gas	17	Statewide. Field redelineated. (Order 8-70).	None
(Shut-in)	9		
Oil	1	Six additional gas storage wells, west end of structure.	
Greybull (L. Cret.) Gas	2		
Greybull (L. Cret.) Oil	1		
(Shut-in)	1		
Virgelle	1		
DRY CREEK MIDDLE Frontier (U. Cret.) Gas	1	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).	None
DRY CREEK, WEST Greybull (L. Cret.) Oil & Gas (Gas)	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	None
(Shut-in)	1	amended to include Frontier formation. (Order 65-82). Field	
Virgelle (U. Cret.)	1	enlargement. (Order 86-82).	
DUGOUT CREEK Red River (Ord.)	1	320-acre spacing units. Well to be no closer than 660' from unit boundary. (Order 22-82).	None
DUNKIRK Sunburst (L. Cret.)	17	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).	None
DUNKIRK, NORTH Bow Island (L. Cret.) Gas	18	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).	None
(Shut-in)	2		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
DWYER			
Madison (Miss.)	13	160-acre spacing units; well location in center of SE 1/4 of spacing units with 175' topographic tolerance. (Orders 25-60, 29-61).	Produced water disposed into Dakota formation. (Order 26-63.)
(Shut-in)	1		Waterflood. (Order 20-68.)
Red River (Ord.)	2		
DWYER - RED RIVER			
Red River "C"	1	Single spacing unit with 2 wells. (Order 97-83).	None
Red River "D" & "E"	1		
EAGLE			
Madison (Miss.)	21	Statewide.	None
Red River	1		
(Shut-in)	2		
EAGLE SPRINGS			
Bow Island (L. Cret.) Gas	6	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).	None
(Shut-in)	4		
EAST GLACIER			
Greenhorn (U. Cret.)	1	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).	None
ELK BASIN (Mont. Portion)			
Frontier (U. Cret.)	12	Statewide spacing is waived within unit area. (Order 10-61). Gas to Elk Basin gasoline plant.	Frontier: Water injection (Order 1-72.) Embar - Tensleep pressure maintenance by crestal gas injection. Waterflood approved in 1966. (Order 5-66.) Madison: Water Injection (Order 17-61.)
(Shut-in)	8		
Embar-Tensleep (Perm. Penn.)	15		
(Shut-in)	14		
Madison (Miss.)	27		
(Shut-in)	1		
Kootenai Gas	1		
ELK BASIN, NORTHWEST			
Frontier (U. Cret.)		Spacing waived within unitized portion except that bottom of hole be no closer than 330' from unit boundary and there be at least 1320' surface distance between wells in same formation; 75' topographic tolerance. (Orders 43-63, 28-64). Gas to Elk Basin gasoline plant.	Frontier: Waterflood in progress. Embar- Tensleep: Waterflood. (Order 3-67, 6-74.) Madison, produced water.
(Shut-in)	8		
Embar-Tensleep (Perm. Penn.)	4		
(Oil & Gas)			
Madison (Miss.)	1		
ENID, NORTH			
Madison (Miss.)	2	Spaced for one well field, NE 1/4 of Section 10 and NW 1/4 of Section 11, T23N, R54E. (Order 45-79).	None
Red River (Ord.)	3		
EPWORTH			
Red River (Ord.)	1	Statewide.	None
ETHRIDGE			
Swift (U. Jur.) Gas	6	Statewide, except two wells. (Order 28-65).	None
ETHRIDGE, NORTH			
Swift (U. Jur.)	2	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).	None
FAIRVIEW			
Winnipegosis (Dev.)	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). Gas to Fairview plant.	Northwest part of field unitized for gas injection. Gas from Fairview and Brorson fields. (Order 11-70.) Salt water disposal into Dakota. (Orders 9-A-71, 24-A-71.)
Duperow (Dev.) (Shut-in)	1		
Red River (Ord.) Oil & Gas	8		
Madison	6		
Interlake (Sil.)	1		
FAIRVIEW, EAST			
Red River (Ord.)	2	320-acre spacing units; designated well in the north half of Section 28 may be located no closer than 660' from the unit boundary or 1650' from any well producing from the same pool. (Order 76-81).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
FAIRVIEW, WEST & AREA Ratcliffe (Miss.)	2	Statewide.	None
FERTILE PRAIRIE Red River (Ord.)	5	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).	None
FIDDLER CREEK Greybull (L. Cret.)	2	Statewide.	None
FISHHOOK Red River (Ord.) Madison (Miss.)	4 1	Statewide.	None
FITZPATRICK LAKE Bow Island (U. Cret.) Gas (Shut-in) Sunburst (L. Cret.) Gas	7 2 1	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).	None
FLAT COULEE Bow Island (L. Cret.) Gas Dakota (L. Cret.) Gas Swift (Jur.) Gas (Shut-in) Swift (Jur.) Oil (Shut-in) Sawtooth (Jur.) Gas	1 1 3 2 20 2 1	330' from boundary of legal subdivision and 1320' from other wells in same reservoir. (Order 16-55). Statewide, exception. (Order 11-66). Statewide gas spacing. 40-acre spacing units. Well in center of spacing unit with 150' topographic tolerance. (Orders 16-62, 19-63). Statewide.	Waterflood unit and redelineation approved for Swift sandstone. (Orders 13-71, 17-A-71, 22-71.)
FLAT COULEE, EAST Sawtooth (M. Jur.) (Shut-in)	1	Statewide.	None
FLAT LAKE Madison (Miss.) (Shut-in) Nisku (Dev.)	51 10 1	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 1600' 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, SOUTH Ratcliffe (Miss.) (Shut-in)	6 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 Madison (Miss.)	3	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).	None
FORT CONRAD Bow Island (U. Cret.) Gas	3	640-acre spacing units; well location to be no closer than 990' from the section line. (Order 19-81). Field enlargement. (Order 118-82).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
FORT CONRAD AREA			
Bow Island (U. Cret.) Gas	12	Statewide.	None
FORT GILBERT			
Red River (Ord.)	3	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.)
Red River (Ord.) & Mission Canyon (Miss.)	14		
(Shut-in)	1		
FOUR MILE CREEK			
Red River (Ord.)	1	320-acre spacing units. (Order 43-75); Field boundary reduction. (Order 10-83).	None
FOUR MILE CREEK, WEST			
Red River (Ord.)	2	Statewide.	None
(Shut-in)	1		
FOX CREEK			
Siluro (Ord.)	2	Statewide.	None
(Shut-in)	1		
FOX CREEK, NORTH			
Madison (Miss.)	1	Statewide.	None
Red River (Ord.)	1		
FRANNIE (Mont. Portion)			
Tensleep (Penn.)	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.)
(Shut-in)	1		
FRED & GEORGE CREEK			
Sunburst (L. Cret.) Oil & Gas	40	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 waterflood initiated July, 1970, using water from Madison, (Order 13-70) and Eagle.(Order 27-71.) (Order 40-80.)
(Shut-in)	10		
Swift (U. Jur.) Oil & Gas	5		
Madison (Miss.) (Shut-in)	1	Sunburst Gas: same as Arch Apex (Order 4-60).	
Bow Island (U. Cret.)	2	Statewide.	
		Statewide.	
FROG COULEE			
Red River (Ord.)	1	320-acre spacing units; wells to be located no closer than 660' from the unit boundary. (Order 55-79).	None
FRESNO & AREA			
Eagle-Virgelle (U. Cret.) Gas	6	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).	None
(Shut-in)	2		
FROID, SOUTH			
Red River (Ord.)	1	Statewide.	None
Ratcliffe (Miss.)	1		
GAGE			
Amsden (Penn.)	3	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).	None
GALATA			
Bow Island (U. Cret.) Gas	2	Statewide.	None
GASLIGHT			
Eagle (U. Cret.) (Shut-in)	2	Statewide.	None
GAS CITY			
Siluro (Ord.)	10	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.)
(Shut-in)	3		
Madison	2		
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
GILFORD, NORTH			
Sawtooth (Jur.) Gas	1	320-acre specified spacing units. One well per unit 660' from boundary, 2640' between wells. (Order 9-58). Boundary reduction. (Order 38-76). Field enlargement. (Order 9-79).	None
GIRARD			
Red River (Ord.)	1	Statewide.	None
Bakken (Miss.)	1		
GLENDIVE			
Siluro (Ord.) Oil & Gas	7	80-acre spacing units consisting of any two adjacent quarter-quarter sections; wells located in center of NE 1/4 and SW 1/4 of each quarter section with 75' topographic tolerance. (Orders 27-55, 19-62, 58-62, 20-66).	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
GLENDIVE, SOUTH			
Red River (Ord.)	1	Statewide.	None
GOLD BUTTE			
Bow Island (L. Cret.) Gas	1	640-acre spacing, well location any quarter-quarter section cornering on center of section. (Order 26-59). Amended field boundary. (Order 43-77).	None
GOLDEN DOME			
Eagle (U. Cret.) Gas	4	160-acre spacing; 660' from spacing unit boundary. (Order 15-72).	None
Frontier (U. Cret.) Oil (Shut-in)	1	Single spacing unit for Greybull formation. (Order 17-82). Field enlargement and inclusion of Frontier and Greybull formations. (Order 135-82).	
Greybull (L. Cret.) Oil	2		
GOOSE LAKE			
Ratcliffe (Miss.) Oil & Gas (Shut-in)	33	Unitized. (Order 17-72). Reduced field area; (Order 29-77). 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.)
Red River (Ord.)	2		
	1		
GOOSE LAKE, EAST			
Red River (Ord.)	0	320-acre spacing units. Well location no closer than 660' from unit boundary. (Order 20-81).	None
GOOSE LAKE, SOUTH			
Red River (Ord.)	1	Statewide.	None
GOOSE LAKE, WEST			
Red River (Ord.)	3	Statewide.	None
GOSSETT			
Madison (Miss.)	1	Statewide.	None
Red River (Ord.)	2		
GRABEN COULEE			
Swift, Cut Bank, Madison (Shut-in)	75	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.)
	12		Waterflood of Cut Bank sands. (Order 61-83).
GRANDVIEW			
Bow Island - Sunburst (L. Cret.) Gas	7	320-acre spacing units aligned in a north-south direction; well location no closer than 660' to a spacing unit boundary. (Order 49-67).	None
(2 zones) (Shut-in)	2	Dual completion with Bow Island.	
Madison (Miss.) Gas	3		
Swift	4		
(Shut-in)	1		
GRANDVIEW, EAST			
Swift (Jur.)	2	Statewide.	None
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
GREEN COULEE			
Red River (Ord.)	2	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 1650' from any well producing from the Red River. (Order 56-81).	None
Mission Canyon (Miss.)	1		
GREEN COULEE, EAST			
Red River (Ord.)	0	Single spacing unit. (Order 99-82).	None
GUMBO RIDGE			
Tyler (L.Penn.)	4	Statewide.	3rd Cat Creek water for waterflood (Order 54-79.)
GUNSIGHT			
Madison (Miss.)	3	Statewide.	None
(Shut-in)	1		
GYPSY BASIN			
Sawtooth, Sunburst, Swift, Madison	16	330' from lease lines and 660' between wells in same formation. Only two wells per quarter-quarter section. (Order 7-66). Same as Sunburst. (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, 2340' between gas wells. 150' topographic tolerance. (Order 13-59).	Injection of excessive gas produced with oil into Sunburst gas cap. (Order 6-64.)
(Shut-in)	26		
HAMMOND (Gas)			
Muddy (L. Cret.)	9	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).	None
HARDIN			
Frontier (U. Cret.) Gas	15	Statewide.	None
(Shut-in)	32		
HARDPAN			
Bow Island (L. Cret.) Gas	14	Spacing one well per section. Well location no closer than 990' from the section boundary. (Order 145-81). Field enlargement. (Order 131-82).	None
(Shut-in)	1		
Swift (Jur.)	1		
HARDPAN AREA			
Bow Island (L. Cret.)	7	Statewide.	None
HARDSCRABBLE CREEK			
Red River (Ord.)	2	Statewide.	None
HAWK CREEK			
Amsden (Penn.) (Shut-in)	1	Statewide.	None
Mission Canyon (Miss.)	1		
HAWK HAVEN			
Mission Canyon (Miss.)	1	Single 320-acre spacing unit. (Order 91-81).	None
HAVRE			
Eagle (U. Cret.)	3	Single spacing unit for production of gas. (Order 48-82).	None
(Shut-in)	2		
HAY CREEK			
Mission Canyon (Miss.)	2	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).
Interlake (Sil.)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
HAYSTACK BUTTE			
Bow Island (L. Cret.)	3	640-acre spacing units; one well per each producing horizon above	None
(Shut-in)	4	Kootenai. Location no closer than 990' from spacing unit boundary.	
Sunburst	1	(Order 85-76). Amended field boundary. (Order 37-77).	
HIAWATHA			
Tyler (L. Penn.)	4	Statewide.	None
(Shut-in)	1		
HIBBARD			
Amsden (Penn.)	2	Statewide.	Produced water disposed into the
(Shut-in)	1		Amsden formation (Order 9-A-82.)
HIGH FIVE			
Tyler (Penn.)	16	Statewide.	Water disposed into Dakota and
(Shut-in)	1		Stensvad formations (Orders
			33-A-77, 70-A-78.) Unitized &
			Polymer-Waterflood authorized.
			(Order 110-80.)
HIGHVIEW			
Madison (Miss.)	7	160-acre spacing units, located no closer than 660' from spacing	None
(Shut-in)	8	unit boundary. 150' topographic tolerance. (Order 84-76). Orders	
		32-76, 84-76 and 63-82 are amended to provide as follows: 1. Per-	
		mitted wells to the Moulton, Sunburst, Morrison and Swift forma-	
		tions 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).	
HIGHVIEW, NORTHEAST			
Mississippian	2	Statewide.	None
HONKER			
Red River (Ord.)	1	320-acre specified spacing units; permitted well not to be closer	None
		than 660' from the unit boundary. (Order 105-80).	
HORSE CREEK			
Swift	1	Statewide.	None
HOWARD COULEE			
(Tyler (L. Penn.))	1	Statewide.	Produced water injected into the
			Piper formation. (Order 69-A-78.)
INJUN CREEK			
Tyler	2	Statewide.	None
INTAKE II			
Red River (Ord.)	2	320-acre spacing units; permitted well to be located no closer than	None
Ratcliffe (Miss.)	1	660' from the unit boundary. (Order 99-81).	
IVANHOE			
Amsden (L. Penn.)	1	40-acre spacing unit for production from any one common forma-	Waterflood of Tyler B & C sands
(Shut-in)	5	tion; well location in center of unit with 200' topographic tolerance.	discontinued. Water disposal into
Morrison (U. Jur.)	1	(Order 7-60 and 13-56).	Tyler "A". (Order 8-A-78.)
Tyler (L. Penn.)	1		
JIM COULEE			
Tyler (L. Penn.)	14	Unitized. (Order 18-72). No well closer than 330' from unit bound-	Waterflood project approved in Tyler
		ary.	Sands (Order 18-72.)
JIM COULEE, NORTH			
Tyler (L. Penn.)	1	Statewide.	None
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
KATY LAKE Mission Canyon (Miss.)	1	Statewide.	None
KATY LAKE, NORTH Red River (Ord.) Mission Canyon	5 3	Statewide.	Produced water disposed into the Dakota formation (Order 15-A-82.)
KEG COULEE Tyler (Penn.) Oil & Gas (Shut-in)	15 8	40-acre spacing in southwest portion of field except that spacing is waived in unitized portion. (Orders 3-64, 4-64, 23-64). 80-acre spacing in remainder of field with variable pattern. (Orders 11-60, 28-62). 40-acre spacing; W 1/2 E 1/2 and W 1/2 Sec. 35-11N-30E; NW 1/4 Sec. 35-11N-30E; NW 1/4 Sec. 2-10N-30E. (Order 23-72). Topographic tolerance varies from 100' to 250'. (Orders 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 (Penn.)	3	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).	None
KEITH AREA White Specks (U. Cret.) (Shut-in)	2 1	Statewide.	None
KEITH, EAST 2nd White Specks (U. Cret.) Gas Blackleaf (L. Cret.) Gas Sawtooth (Jur.) Gas	10 12 5	Statewide, except unitized portions spaced by Order 22-62. Pooling. (Order 19-66).	None
KELLEY Tyler (Penn.)	3	Statewide. 250' topographic tolerance. (Order 15-67).	Waterflood using Third Cat Creek water. (Orders 8-69, 51-76.)
KEVIN-SOUTHWEST Bow Island (L. Cret.) Gas (Shut-in)	38 7	320-acre one-half section spacing units lying north-south or east-west at operator's option. Location to be no closer than 660' from unit boundary for Sunburst-Swift formations and all formations above the top of the Kootenai. (Orders 26-78, 47-78, 48-78). Field enlargement. (Orders 96-79, 47-80, 163-81).	None
KEVIN-SUNBURST Madison Swift Sunburst Ellis Cut Bank (Shut-in) Gas (Shut-in)	Oil 795 25 46 62 2 404 60 17	Oil: 9 wells per 40-acre tract; only 3 wells on any side of tract with set back at least 220' from line. Gas: Well to be no closer than 330' from the boundaries of any legal subdivision line, nor less than 2,400' from every other drilling or producible well on the same lease or unit. (Orders 8-54, 28-55).	There are four water floods in operation using Madison water. (Orders 9-64, 17-64, 30-64, 36-65, 29-71.) Sunburst water disposed into Madison (Order 50-76). H ₂ S, CO ₂ and produced water disposed into Madison. (Order 156-81).
KEVIN-SUNBURST, NISKU & AREA Nisku (Dev.)	1	640-acre spacing units; location no closer than 990' from spacing unit boundary. (Order 83-76).	None
KICKING HORSE Bow Island (L. Cret.) Gas Sawtooth (Jur.) Gas (Shut-in) Sunburst (L. Cret.) Oil & Gas	11 1 5	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).	None
KINCHELOE RANCH, WEST Tyler (Penn.)	4	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
LEROY Judith River - Eagle (Shut-in)	21 15	320-acre spacing with unit consisting of one-half section lying north-south or east-west at operator's option after administrative approval. Well no closer than 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).	None
LISCOM CREEK Shannon (U. Cret.) Gas (Shut-in)	7 1	Spacing, one well per 640 acres, with location no closer than 990' from section boundary. (Order 20-72).	None
LISK CREEK Red River (Ord.) (Shut-in)	1	Statewide.	None
LITTLE BEAVER (Mont. Portion) Siluro (Ord.) (Shut-in)	23 3	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 (Mont. Portion) Red River (Ord.) (Shut-in)	9 1	Same as for Little Beaver. (Order 42-62).	Waterflood of the Red River was commenced in April, 1965. (Order 33-64.)
LITTLE BEAVER, NORTH Siluro (Ord.) (Shut-in)	2	Statewide.	None
LITTLE CREEK Eagle-Virgelle (U. Cret.) Gas (Shut-in)	1 1	Statewide.	None
LITTLE PHANTOM Sunburst	1	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).	None
LITTLE ROCK Blackleaf (L. Cret.) Gas	10	320-acre north half and south half 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).	None
LITTLE WALL CREEK Tyler, Stensvad	30	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).
LODGE GRASS Tensleep (Penn.)	1	Statewide.	None
LOHMAN Eagle (U. Cret.) (Shut-in)	5 2	640-acre spacing; one well per section to be located no closer than 990' from section line. (Order 23-78).	None
LONE BUTTE Red River (Ord.)	2	320-acre spacing units with well location at least 660' from unit boundary. Not delineated.	None
LONE RIDER Ratcliffe (Miss.) Red River (Ord.)	1	Single spacing unit. (Order 120-82)	None
LONETREE CREEK Red River (Ord.) Mission Canyon	9 1	320-acre spacing, wells 660' from spacing boundary, 2000' between wells. (Order 29-72). Field reduction. (Order 162-81).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
LONETREE CREEK, WEST Red River (Ord.)	2	Spacing units shall be south half and north half of Section 12, T24N, R56E. No well closer than 660' from boundary or 1320' from existing well. (Order 73-82).	None
LONG CREEK Madison (Miss.) Charles	1	Statewide.	None
LONG CREEK, WEST Nisku (Dev.)	2	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).	None
LOOKOUT BUTTE (Includes Coral Creek Unit) Madison (Miss.)	2	Statewide spacing.	Water disposal into Madison. (Order 68-62.) Waterflood of Silurian-Ordovician approved in 1966. (Order 35-66.) Water from Minnelusa.
(Shut-in)	6		
Interlake, Red River (Sil-Ord) (Shut-in)	27 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 per Order 7-63.	
LORING UNIT, EAST Bowdoin, Greenhorn, Phillips (L. Colo.)	75	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).	None
(Shut-in)	1		
LOWELL Red River (Ord.)	3	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 1650' to well producing from the same horizon. (Order 104-79).	None
(Shut-in)	1		
LUSTRE Madison (Miss.)	16	80-acre spacing units consisting of 1/2 of a regular governmental quarter section. Either E 1/2 and W 1/2 or N 1/2 and S 1/2. Well to be located in either NE 1/4 or SW 1/4 with 200' tolerance. (Order 19-83).	Produced water disposed into Dakota-Swift formation. (Order 39-A-83).
MACKAY DOME Greybull (L. Cret.) Oil	4	Statewide.	None
MALCOM CREEK Mission Canyon (Miss.)	1	Statewide.	None
MARIAS RIVER Bow Island (L. Cret.)	15	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).	None
(Shut-in)	5		
MASON LAKE & AREA Lakota (L. Cret.)	12	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.)
(Shut-in)	2		
Amsden (Penn.)	2		
MASON LAKE, NORTH Amsden (Penn.)	1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
McCABE Ratcliffe (Miss.)	3	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 1650' between wells producing from the Madison Group. (Order 37-81.)	None
McCABE, SOUTH Red River (Ord.), Nisku (Dev.)	1	Single spacing unit for the Nisku and Red River formations. (Order 81-82).	None
MEANDER Sunburst (L. Cret.) Oil (Shut-in)	2	40-acre spacing units; well location to be no closer than 330' to the unit boundaries. (Order 30-82).	None
MEDICINE LAKE Siluro (Ord.) Winnipegosis (Dev.) Mission Canyon (Miss.) (Shut-in)	7 1 1 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 1650' to any well producing from the same formation. (Order 50-79).	Produced water disposed into Muddy, Kibby & Dakota formations (Orders 133-A-81., 111-A-82.)
MELSTONE Tyler (Penn.) (Shut-in)	13 1	Statewide.	None
MELSTONE NORTH Tyler (Penn.)	0	Statewide. Well location no closer than 330' from exterior boundaries of unit. (Order 7-83).	Unitized and waterflood pressure maintenance program for Tyler formation. (Order 125-82.)
MIDBY Red River (Ord.)	1	160-acre spacing units; well location to be no closer than 660' from unit boundary and spacing units designated by Order 24-81.	None
MIDDLE BUTTE Bow Island (Cret.) Gas (Shut-in)	2 4	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).	None
MINERAL BENCH Charles (Miss.) (Shut-in)	1	Statewide.	Water disposal into Dakota-Lakota per (Order 18-65.) Produced water injected into Judith River (Order 110-A-82.)
MINERS COULEE Sunburst (L. Cret.) Oil (Shut-in) Sunburst-Swift Gas Sawtooth (M. Jur.) Gas Bow Island (L. Cret.) Gas Madison (Miss.)	5 3 2 1 15 1	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 unit boundary. (Order 5-74). Sawtooth gas spacing unit. (Order 43-76). Field redelineation. (Order 44-77. Field enlargement. (Order 4-80).	None
MISSOURI BREAKS Red River (Ord.)	1	320-acre spacing units as specified by Order 97-82.	None
MONA Red River (Ord.) (Shut-in)	2 1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
OLLIE Red River (Ord.) Duperow (Dev.)	1 1	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 (Ord.)	1	Statewide.	None
OTIS CREEK, SOUTH Red River (Ord.)	3	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 1650' from producing well with 150' tolerance. Operator may designate contiguous quarter sections as spacing units. (Order 73-81).	None
OTTER CREEK Red River (Ord.)	1	Single spacing unit. (Order 51-83).	None
OUTLOOK Duperow (Dev.) Winnipegosis (Dev.) (Shut-in)	1 4 2	Statewide. Statewide.	Produced water is disposed into Dakota and Siluro-Devonian formations. (Orders 16-59, 17-65, 36-66, 9-A-77.) Produced water disposed into Madison formation. (Order 59-A-78.)
Silurian-Devonian Nisku (Dev.)	2 1	160-acre spacing units; well location in center of either SW 1/4 or NE 1/4 of each quarter section; 175' topographic tolerance. (Order 19-59A).	
OUTLOOK, SOUTH Winnipegosis (Dev.)	1	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 (Dev.)	2	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.)
OWBOW Red River (Ord.)	1	320-acre spacing 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 1650' to a well producing from same pool. (Order 7-78). Field enlargement. (Order 137-80).	None
PALOMINO Nisku (Dev.)	3	Statewide.	Produced water disposed into the Dakota formation (Order 6-A-82, 58-A-82.)
PASTURE Interlake (Sil.)	1	Statewide.	None
PASTURE CREEK Red River (Ord.)	0	Statewide.	None
PELICAN Red River (Ord.)	1	320-acre spacing units; wells to be located no closer than 660' to any governmental section or quarter section line boundary. (Order 21-79).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
MONARCH			
Madison (Miss.)	2	80-acre spacing units consisting of east and west half 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).	Produced water is disposed into the salt water disposal system for the Pennel Field. Waterflood initiated 12-1-73. (Order 23-73.)
Interlake, Red River (Sil.-Ord.)	14	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 disposed into the Silurian and Charles formations. (Orders 52-A-83 & 55-A-83).
(Shut-in)	3		
MONDAK WEST			
Madison (Miss.)	27	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 1650' to any well drilling or producing from same pool. (Order 42-77).	Produced water injected into Dakota-Lakota. (Order 49-A-78.), and (111-A-80.)
Devonian	2		
Stoney Mtn. (Ord.)	5		
Red River (Ord.)	2	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).	
MOSBY			
(See Cat Creek)			
MOSSER DOME			
Greybull (L. Cret.)	15	Spacing waived. Future development requires administrative approval of the Board. (Order 27-62).	None
Kootenai (Shut-in)	1		
MT. LILLY			
Madison (Miss.) Gas	2	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)	None
Swift	1		
Bow Island	1		
MUD CREEK			
Amsden (L. Penn.) (Shut-in)	2	640-acre spacing unit. Well location anywhere in 160-acre tract in center of each 640-acre well spacing unit. (Order 9-63).	None
MUSSELSHELL			
Tyler (L. Penn.)	1	Statewide.	None
(Shut-in)	1		
MUSTANG			
Red River (Ord.)	3	Statewide.	None
NEISSER CREEK			
Red River	1	Single spacing unit. (Order 78-82)	None
NOHLY			
Nisku (Dev.)	1	Statewide. Single spacing unit. (Order 77-83).	None
Red River (Ord.)	2		
NOHLY, SOUTH			
Red River (Ord.)	1	Single spacing unit. (Order 35-83).	None
NORTH FORK			
Red River (Ord.)	1	Statewide.	None
(Shut-in)	1		
Mission Canyon (Miss.)	1		
(Shut-in)	1		
O'BRIENS COULEE			
Bow Island (L. Cret.)	14	Statewide.	None
(Shut-in)	1		

Field, Formation, Age		No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
PENNEL				
Siluro-Ordovician	Oil & Gas	140	80-acre spacing units consisting of east and west half 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 Nov. 1968. (Order 24-68.)
Madison	(Shut-in)	16		
PETE CREEK				
Sunburst (L. Cret.)	Oil	1	Statewide.	None
PHANTOM				
Sunburst (Cret.)	Gas	3	Gas: wells permitted anywhere within the unit but no closer than 990' to the unit boundary.	None
Sunburst (L. Cret.)	Oil	2	Oil: projected depths greater than 6000' to be located no closer than 660' to the unit boundary. Project depths less than 6000' to be located no closer than 330' to the unit boundary. (Order 48-77).	
	(Shut-in)	1		
PHANTOM, WEST				
Sunburst (L. Cret.)	Gas	2	One well per spacing unit to be located no closer than 660' to the exterior boundaries of three certain spacing units. (Order 65-78).	None
PINE				
Mission Canyon (Miss.)			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).
	Oil & Gas	2		
	(Shut-in)	2		
Siluro-Ordovician	Oil & Gas	95		
	(Shut-in)	25		
PLENTYWOOD				
Red River (Ord.)			Statewide.	None
PLEVNA				
Judith River (U. Cret.)	Gas	16	1200' from quarter section line; 2400' from other wells in same lease or unit; 75' topographic tolerance. (Orders 34-54, 4-57 and Order 34-54 Corrected).	None
	(Shut-in)	7		
POLICE COULEE				
Bow Island (L. Cret.)		8	320-acre spacing units; location no closer than 990' from section line and 660' from half section lines. Spacing units to consist of north half or south half, east half or west half at discretion of operator. (Order 53-76). Extended Field boundaries. (Order 24-77). Field enlargements. (Orders 20-79 and 46-79).	None
	(Shut-in)	1		
PONDERA				
Madison (Miss.)		366	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).
	(Shut-in)	16		
Sun River (Miss.)		9		
	(Shut-in)	3		
PONDERA COULEE				
Sun River (Miss.)		2	330' from legal subdivision lines or upon a 10-acre spacing pattern; 75' topographic tolerance. (Order 5-62).	None
	(Shut-in)	3		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
POPLAR, EAST			
Madison (Miss.)	47	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 No. 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.)
(Charles & Mission Canyon)	5		
Heath (Tyler) (Penn.)	1		
(Shut-in)	1		
POPLAR NORTHWEST			
Madison (Miss.)	25	80-acre spacing units consisting of east half and west half 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 north half and south half or east half and west half 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. (Order 124-80). 80-acre spacing units for test wells to the Charles formation; spacing units to be north half and south half or east half and west half 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).
(Shut-in)	1		
POPLAR SOUTHEAST			
Charles (Miss.)	1	Statewide.	None
PRAIRIE DELL			
Bow Island (L. Cret.)	55	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 and 56-83.	None
Sunburst (L. Cret.)			
Swift (U. Jur.)	3		
(Shut-in)			
PRAIRIE DELL, WEST			
Swift (U. Cret.) Gas	1	640-acre spacing unit; well to be no closer than 990' to the spacing unit boundary. (Order 16-78). Amending Order 16-78 to include all horizons above the Rierdon formation. (Order 54-78). Field enlargement. (Order 55-78).	None
PRAIRIE ELK			
Charles "C" (Miss.)	1	Statewide.	None
PRICHARD CREEK			
Sunburst (L. Cret.) Oil & Gas	4	Well locations subject to administrative approval.	Unitized as to Sunburst for water injection. (Order 7-73.)
(Shut-in)	2		
Swift (U. Jur.) Oil	1		
PUMPKIN CREEK			
Shannon (U. Cret.) Gas		Statewide. Delineated. (Order 10-71).	None
(Shut-in)	2		
PUTNAM			
Red River (Ord.)	10	Statewide.	Order 22-A-72 amended to allow fluid from additional wells to be disposed into the Dakota formation. (Order 82-83).
Madison (Miss.)	5		
Bakken	1		
RABBIT HILLS			
Sawtooth (Jur.)	5	160-acre spacing unit. Well location 660' from spacing unit boundary. (Orders 17-73, 34-74, 33-76). Redelineation. (Order 47-76). Field reduction. (Order 98-83).	Produced water disposed into Eagle formation. (Order 49-A-75.)
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
RAGGED POINT Tyler (Penn.) (Shut-in)	9 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 (Penn.)	11	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 (Ord.)	1	Single spacing unit. (Order 69-82).	None
RAPELJE Clagett, Eagle, Judith River Virgelle (U. Cret.)	11 1	160-acre spacing. Wells no closer than 990' to unit boundary. Commingling after administrative approval. (Order 29-73).	None
RATTLER BUTTE Tyler (Penn.)	6	Statewide.	None
RATTLESNAKE COULEE Sunburst (L. Cret.) Oil & Gas (Shut-in)	2 2	Statewide.	None
RAYMOND Nisku (Dev.) Red River (Ord.) Winnipegosis (Dev.) Mississippian	1 2 2 10	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).	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 Raymond formation. (Order 131-A-81.) Authorization to inject gas into the Nisku formation. (Order 135-81.)
RAYMOND, NORTH Red River (Ord.)	1	Single spacing unit. (Order 94-82).	None
RAYMOND, NORTHEAST Nisku (Dev.)	1	160-acre spacing units. Wells 660' from spacing unit boundary. (Order 12-74).	None
REAGAN Madison (Miss.) Oil (Shut-in) Gas	57 17 1	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 (Miss.) Red River (Ord.)	15 3	Statewide.	Produced water disposed into the Dakota formation (Order 10-A-82)
RED BANK, SOUTH Red River (Ord.)	1	Statewide.	None
RED CREEK Cut Bank and Madison (Shut-in)	16 5	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). A waterflood project in the Cut Bank sand was initiated in June 1965, using Madison water.
RED FOX Nisku (Dev.)	1	Field consists of one 160-acre spacing unit which straddles the section line. (Order. 20-67).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
RED ROCK & AREA			
Eagle (U. Cret.) Gas	3	Spacing units shall consist of the north half and south half 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).	None
(Shut-in)	1		
RED WATER			
Duperow (Dev.) (Shut-in)	1	Statewide.	None
RED WATER, EAST			
Red River (Ord.)	1	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).	None
REDSTONE			
Winnipegosis (Dev.)	1	One well per 160-acre unit, but no closer than 660' from unit boundary. (Order 30-67).	None
REFUGE			
Red River (Ord.)	1	Statewide.	None
REPEAT			
Red River (Ord.)	1	Statewide.	None
RESERVE			
Red River (Ord.)	4	160-acre spacing units; permitted well within 1320' square in center of quarter section. Commingling of Red River and Interlake production permitted on individual well bac's. (Orders 34-66, 27-67).	Excess water injected into Dakota sand. (Order 23-A-67.)
Winnipegosis (Dev.)	1		
RICHEY & AREA			
Charles (Miss.)	2	Statewide. Original 80-acre spacing revoked. (Order 11-73).	None
(Shut-in)	1		
RICHEY, EAST			
Charles (Miss.)	1	Statewide.	None
RICHEY, SOUTHWEST			
Interlake	2	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.)
(Shut-in)	4		
RICHEY, WEST			
Charles (Miss.)	1	Statewide.	None
RIDGELAWN			
Madison (Miss.)	27	Statewide.	None
(Shut-in)	1		
Red River (Ord.)	6		
RIPRAP COULEE			
Ratcliffe (Miss.)	5	Statewide.	None
RIVERBEND			
Red River (Ord.)	1	Statewide.	None
ROCKY BOY AREA			
Eagle-Virgelle (U. Cret.)	6	Statewide.	None
(Shut-in)	2		
ROCKY POINT			
Red River (Ord.)	2	320-acre spacing unit; well to be located no closer than 660' from exterior boundary. (Order 22-79).	None
ROSCOE DOME			
Lakota (L. Cret.)	1	Statewide.	Steam injection into Greybull and Lakota formations (Order 40-82.)
ROSEBUD			
Tyler (L. Penn.)	4	Statewide.	None
(Shut-in)	1		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
ROYALS			
Dawson Bay (Dev.)	1	Statewide.	None
ROYALS, SOUTH			
Dawson Bay (Shut-in)	1	Statewide.	None
RUDYARD			
Sawtooth (M. Jur.) Gas	7	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).	None
Oil	4		
RUNAWAY			
Madison (Miss.) (Shut-in)	1	Statewide.	None
RUSH MOUNTAIN			
Red River (Ord.)	1	Statewide. Dual zone completion in discovery well.	Excess water injected into Dakota sand. (Order 5-A-71.)
SAGE CREEK			
2nd White Specks Gas	9	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 and 65-83).	None
(Shut-in)	1		
Blackleaf (L. Cret.) Gas	9		
SALT LAKE			
Bakken-Nisku (Miss.-Dev.)	3	Statewide.	Produced water disposed into Nesson (Madison) formation. (Order 61-A-80.)
SAND CREEK			
Interlake, Red River (Sil.) (Ord.)	4	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 per (Order 49-62).	Excess produced water is injected into the Swift formation. (Order 9-61.)
(Shut-in)	1		
SANDWICH			
Swift (U. Jur.) Gas	1	320-acre spacing unit. Well located no closer than 990' to spacing unit boundaries. (Order 17-77).	None
SAWTOOTH MOUNTAIN & AREA			
Judith River (U. Cret.)	8	640-acre spacing units, one well per section per formation, location to be not less than 990' from governmental section line. (Order 45-76).	None
Eagle (U. Cret.)	27		
(Shut-in)	3		
SCOBEY			
Madison (Miss.) (Shut-in)	1	Statewide.	None
SECOND CREEK			
Red River (Ord.)	4	303.1-acre spacing unit; one well field. (Order 34-78).	Produced water injected into Dakota/Lakota formations (Order 127-A-82.)
(Shut-in)	1		
SECOND CREEK-DUPEROW			
Duperow (Dev.) (Shut-in)	1	160-acre spacing units; well locations for each unit to be as specified by Order 119-80.	None
SHEEPHERDER			
Tyler (L. Penn.)	3	Statewide.	None
SHELBY AREA			
Sunburst (L. Cret.) Gas	2	Statewide. Field outline not delineated. A few small Swift sand wells commingled with Sunburst.	None
SHELBY, OLD			
Sunburst (L. Cret.) Gas	12	320-acre spacing units to be comprised of either east half, west half, north half or south half of a section for Swift, Kootenai, Dakota, and Sunburst gas. Well location to be no closer than 660' to the unit boundary. Original spacing Order 85-81 plus field enlargement and amendment orders were superseded by Order 90-83.	None
(Shut-in)	3		
SHERARD AREA			
Eagle (U. Cret.)	4	Statewide.	None
(Shut-in)	7		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
SHERARD FIELD			
Eagle (U. Cret.) Gas	11	640-acre spacing units; 990' from section line. (Order 1-74).	None
(Shut-in)	7	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).	
SHERARD UNIT			
Eagle (U. Cret.) Gas	17	Statewide.	None
(Shut-in)	15		
Judith River (U. Cret.) Dual	1		
SHERARD WEST			
Eagle, Virgelle (U. Cret.)		160-acre spacing units; location no closer than 660' to unit boundary. (Order 90-76).	None
(Shut-in)	1		
SHOTGUN CREEK			
Red River	1	Statewide.	None
SHOTGUN CREEK, NORTH			
Gunton (Ord.) and Red River (Ord.)	1	320-acre spacing units consisting of two contiguous governmental quarter sections which may be in one or two sections with permitted well to be no closer than 660' to the unit exterior boundary and no closer than 1500' to any well producing from the same formation. If not feasible to produce two zones separately, commingling permissible with prior administrative approval. (Order 49-77).	None
SIDNEY			
Mission Canyon (Miss.)	26	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 1650' to well producing from the same formation. (Order 5-79.	Excess water injected into Dakota formation. (Order 41-A-78.)
Red River (Ord.)	2		
(Shut-in)	1	Field enlargement. (Order 99-80).	
SIDNEY, EAST			
Madison	8	Statewide.	None
SINGLETREE			
Red River (Ord.)	1	Statewide.	Produced water disposed into Dakota formation. (Order 59-A-80.)
SIOUX PASS			
Red River (Ord.)	7	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.)
Mission Canyon	1		
SIOUX PASS, EAST			
Red River (Ord.)	1	Statewide.	None
SIOUX PASS, MIDDLE			
Red River (Ord.)	6	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 1650' from well producing from same formation. Commingling permissible with Administrative approval. (Order 55-76). An exception to Order 55-76 by (Order 39-81).	None
SIOUX PASS, NORTH			
Nisku (Dev.) Red River (Ord.)		320-acre spacing units with well locations at least 660' from unit boundary (Order 12-75). Commingling approved. (Order 17-76).	Produced water injected in Dakota-Lakota formations. (Order 34-A-75.)
Dual	1		
Red River (Ord.)	14	Field amendments (Order 8-79 and 10-81). Field extensions.	
(Shut-in)	1	(Orders 12-77, 13-79 and 48-81).	
Madison (Miss.)	4		

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
SIoux PASS, NORTH-DUPEROW Duperow (Shut-in)	2	Two 320-acre spacing units. (Orders 107-80,74-82).	None
SIoux PASS, SOUTH Red River (Ord.)	2	Statewide.	None
SNOOSE COULEE Bow Island (L. Cret.) Gas	8	640-acre spacing units; location no closer than 990' from spacing unit boundary. Bow Island and shallower formations. (Order 18-77).	None
SNOW COULEE Sunburst (L. Cret.) Gas (Shut-in)	1	Spacing units. E 1/2 Section 33 and W 1/2 Section 34, T36N, R4E designated as spacing units. (Order 78-76).	None
SNYDER Tensleep (Penn.) (Shut-in)	3 1	10-acre spacing units with center 5-spot permitted; 150' topographic tolerance. (Order 45-62).	None
SOAP CREEK Tensleep, Amsden, Madison (Penn.) (Penn.) (Miss.)	38	One well per 10-acre spacing unit per producing formation; well location in center of spacing unit with 100' topographic tolerance. (Order 26-60).	None
SOAP CREEK, EAST Tensleep (Penn.)	3	Statewide.	None
SOBERUP COULEE Bow Island (L. Cret.) Gas	1	Statewide.	None
SOUTH FORK Red River (Ord.) Mission Canyon (Miss.)	3 1	Statewide.	None
SPRING COULEE Sawtooth (Jur.)	3	Statewide.	None
SPRING LAKE Nisku (Dev.) (Shut-in) Red River (Ord.) Bakken	2 2 1	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).	None
SPRING LAKE, SOUTH Red River (Ord.)	1	Single spacing unit. (Order 81-81).	None
SPRING LAKE, WEST Duperow (Dev.) (Shut-in)	1	Single spacing unit. (Order 42-82).	None
STAMPEDE Red River (Ord.)	2	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).	None
STAMPEDE, NORTH Nisku (Dev.) Oil	1	160-acre single spacing unit for Nisku formation. (Order 29-82).	None

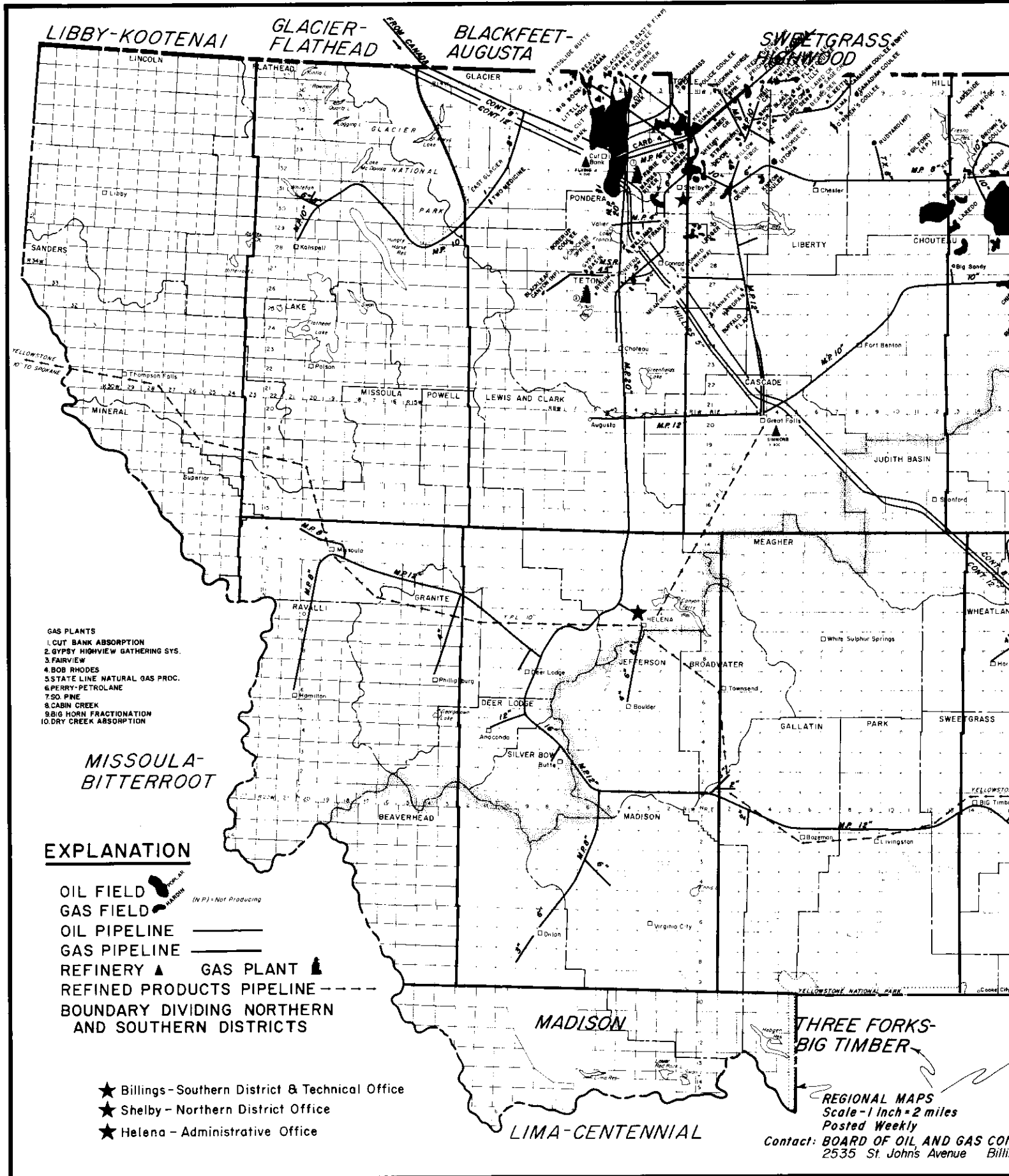
Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
STENSVAD			
Tyler (Penn.)	4	40-acre spacing units; well location in center of spacing unit with	None
(Shut-in)	11	200' tolerance. (Orders 2-59, 7-60). Wells may be drilled anywhere within waterflood unit boundary, no closer than 660' from unit boundary. (Order 5-65, amended.)	
STRATER			
Phillips (U. Cret.) Gas	0	160-acre spacing units; well location to be no closer than 660' from quarter section line. (Order 103-81).	None
STRAWBERRY CREEK AREA			
Sawtooth Oil	1	Statewide.	None
Gas (Shut-in)	1		
SUMATRA			
Tyler (Penn.) Oil & Gas		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.)
Amsden (Shut-in)	63 30		
SUMATRA, EAST			
Tyler (Penn.)	1	Statewide.	None
SUMATRA, SOUTHEAST			
Tyler (Penn.)	1	Statewide.	None
SUNNYHILL			
Red River (Ord.) Oil	2	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 1650' to any well producing from same formation. (Order 39-78).	Produced water disposed into Dakota formation. (Order 27-A-80.)
Madison (Miss.)	1		
SUNNYHILL, WEST			
Red River (Ord.)	1	Statewide.	None
SWANSON CREEK			
Phillips (U. Cret.) Gas	58	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).	None
(Shut-in)	24		
SWEETGRASS			
Sunburst (L. Cret.)	1	Single spacing unit. (Order 121-82).	None
(Shut-in)	1		
TARGET			
Charles/Ratcliffe		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).	None
Madison (Miss.)	11		
THIRTY MILE			
Eagle (U. Cret.) (Shut-in)	2	Statewide.	None
THREE BUTTES			
Gunton & Red River	3	160-acre spacing units, well location no closer than 660' from governmental quarter section line or unit boundary. (Order 11-81).	None
THREE MILE			
Eagle (U. Cret.)	5	Statewide.	None
(Shut-in)	1		

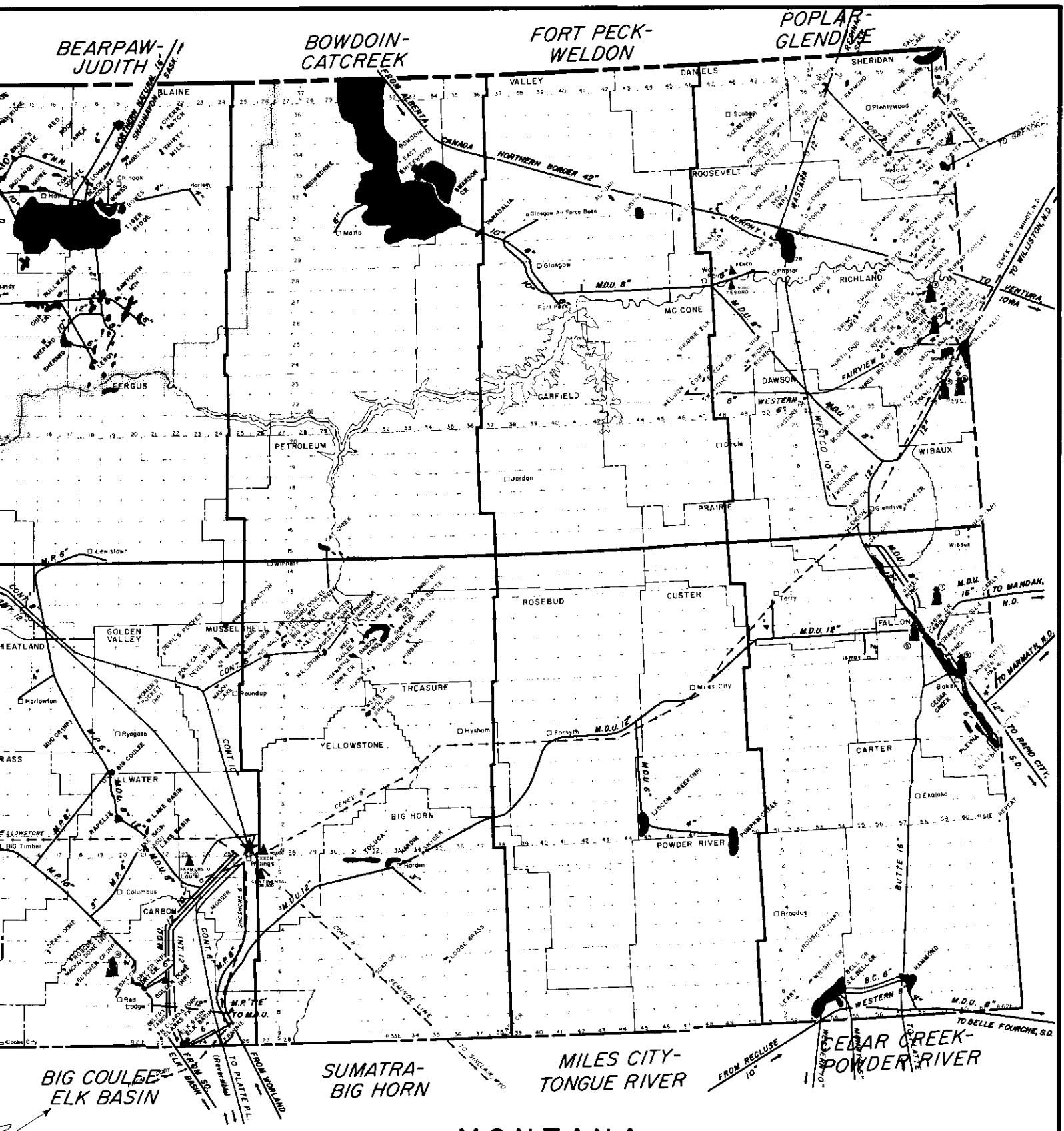
Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
TIBER & AREA			
Bow Island (L. Cret.) Gas	11	Spacing allows one well for each gas producing horizon to be located anywhere within the section but no closer than 990' to the section line. (Order 143-81).	None
TIGER RIDGE			
Eagle (U. Cret.) Gas	190	Field delineated; (Orders 17-67, 23-68). Redelineated and established Statewide spacing. (Order 10-70).	Excess produced water injected into Eagle formation. (Orders 19-A-73, 46-A-75.) (Order 19-A-73) Amended by (Order 60-A-78.)
(Shut-in)	48	Statewide for field area not unitized. Two units: wells to be located no closer than 990' from unit boundary. (Orders 11-72, 41-72). 160-acre spacing units; Sections 20, 21, 22, 27, 28, 33, 34, T32N, R16E, (Judith River) locations to be no closer than 660' from unit boundary. (Order 32-73). Enlarge and redelineate field. (Order 13-75). 160-acre spacing units in Sections 22, 23, 24, T32N, R14E (Eagle & Virgelle) wells to be located no closer than 990' from section line and 660' from quarter section line. (Order 37-75). 160-acre spacing units; NW 1/4 & NE 1/4 Section 30, T31N, R17E, well to be located at least 990' from quarter section line. 75' tolerance allowed for topographic reasons. (Order 51-77). 160-acre spacing units; Sections 32, 33, T31N, R17E and Section 4, T30N, R17E (Eagle) to be located no closer than 990' to a section line and 660' to quarter section line. (Order 52-77). Field enlargement. (Order 46-78). Field enlargement. (Order 48-79). Amendment to Orders 17-67, 23-68 and 10-70 to establish 320-acre spacing units in certain areas. (Order 79-79). Field enlargement and amending field rules to certain portions thereof. (Order 26-80). Amendment to Orders 17-67, 23-68 and 10-70 to allow an additional well in certain sections. (Orders 50-80 and 51-80). Amendment to Order 13-75 that allows one well per 160-acre spacing unit for Eagle formation with location to be no closer than 990' to boundaries of quarter section underlying Section 35, T32N, R18E. (Order 54-80). Amendment to Orders 17-67, 23-68 and 10-70 to allow an additional well to the Eagle formation within certain specified sections. (Order 26-82).	
TIGER RIDGE, NORTH			
Eagle (U. Cret.)	1	160-acre spacing units; one well per horizon per spacing unit from the Virgelle formation to the surface. Well to be no closer than 990' to the section line nor closer than 660' to the interior quarter section line. (Order 80-79).	None
TIMBER CREEK			
Sunburst (L. Cret.) (Shut-in)	1	Statewide.	None
TIPPY BUTTES			
Tyler (Penn.)	1	Statewide.	Water injection into lower Tyler formation (Order 57-82.)
TOLUCA	0	160-acre spacing units all formations from surface down to and including Frontier with permitted wells no closer than 660' to spacing unit boundaries. (Order 28-83).	None
TRAIL CREEK			
Sunburst (L. Cret.) Gas	3	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).	None
Bow Island (L. Cret.)	5		
TULE CREEK			
Nisku (Dev.)	5	160-acre spacing units with permitted well anywhere within 1320' square in center of each unit. (Orders 26-62, 6-65, 11-67, 5-77).	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.)
(Shut-in)	2		
TULE CREEK, EAST			
Nisku (Dev.)	1	160-acre spacing units with permitted well anywhere within 1320' square in center of each unit. (Orders 40-64, 6-65).	Water injected into Judith River formation. (Order 13-68.) Water injected into Nisku formation. (Order 28-A-79.)

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
TULE CREEK, SOUTH Dakota	1	160-acre spacing units with permitted well anywhere within a 1320' 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 Judith River (U. Cret.) Gas (Shut-in)	1 1	Statewide.	None
TWO MEDICINE CREEK Sun River (Miss.)	1	Statewide.	Produced water disposed into Cut Bank formation (Order 89-A-80.)
TWO WATERS Red River (Ord.) Bakken	1 1	Statewide.	None
UTOPIA, GAS Sawtooth (Jur.) Gas	6	640-acre spacing units; well location may be anywhere within the unit but no closer than 990' to any governmental section line. (Order 13-80).	None
UTOPIA SWIFT Swift (U. Jur.) Oil	25	40-acre spacing units; 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).	None
VANDALIA Bowdoin, Greenhorn, Phillips (L. Colo.)	9	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).	None
VAUX Red River (Ord.) Mission Canyon (Miss.) Interlake (Sil.)	7 11 1	Statewide. Single spacing unit with commingling approved for Madison Group. (Order 63-83).	Produced water injected into the Dakota formation. (Order 44-A-79.)
VAUX, SOUTH Red River Stonewall Silurian (Ord.) (Shut-in)	1 1 1 3	Statewide.	Produced water injected into Dakota formation. (Order 109-A-82.)
VAUX, WEST Madison (Miss.)	1	Statewide.	None
VIDA Interlake (Sil.)	1	160-acre spacing units with permitted well anywhere within an 840' square in center of each unit. (Order 39-63). Field area reduction. (Order 79-76).	Water injected into Lakota formation. (Order 14-68.)
VIKING Dawson Bay (Dev.) (Shut-in) Winnipegosis	1	320-acre spacing units, designated to be located no closer than 660' to the unit exterior boundary and no closer than 1500' to any well producing from the same formation. If not feasible to produce two zones separately, commingling permissible with prior administrative approval. (Order 50-77).	None
VOLT Nisku (Dev.) Charles "C" (Miss.) (Shut-in)	5 1 1	160-acre spacing units with permitted well anywhere within a 1320' 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.)
WAGON BOX Tyler (Penn.) (Shut-in)	1 1	Statewide.	None
WAGON TRAIL Red River	1	Statewide. Single 320-acre spacing unit. (Order 2-83).	None
WAKEA Red River (Ord.)	2	Two 320-acre spacing units. (Order 84-83).	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
WEED CREEK Amsden (Penn.)	1	Statewide.	None
WELDON Kibby (Miss.) (Shut-in)	1 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 Sunburst (L. Cret.) Oil Bow Island (L. Cret.) Gas Sawtooth (Jur.) Gas (Shut-in) Madison (Miss.) Gas	5 2 1 4	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.	None
WEST BUTTE SHALLOW GAS Bow Island (L. Cret.)	1	160-acre spacing units; with one well to be permitted to produce from each individual gas producing formation above the top of the Kootenai to the surface within each 160-acre spacing unit. Well locations to be anywhere within the spacing unit but not closer than 990' from the spacing unit boundaries. (Order 39-77).	None
WEST FORK Charles (Miss.)	1	Statewide.	None
WHITEWATER, EAST Lower Colorado Group	13	640-acre spacing units with 2 wells allowed per formation to be located anywhere within the spacing unit but not closer than 990' to spacing unit boundary. (Order 100-83).	None
WHITLASH Bow Island, Kootenai, Swift Oil (Cret.) (Jur.) (Shut-in) Gas (Shut-in) Madison (Miss.) Gas	79 11 34 3 1	Gas: 300' from legal subdivision line and 2400' 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).	None
WHITLASH, WEST Sunburst, Swift (Cret.) (Jur.) Gas (Shut-in) Oil (Shut-in)	6 4 3 1	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). Order 61-62 amended by Order 48-77. Field extension. (Order 18-79).	None
WILLIAMS Bow Island (L. Cret.) Gas	17	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).	None
WILLOW CREEK, NORTH Tyler (Penn.) Oil	3	Statewide.	Pilotflood. (Order 19-72.)
WILLOW RIDGE Bow Island (L. Cret.) Gas (Shut-in) Burwash (Cret.) Oil Duperow (Shut-in)	15 3 4 1	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, quarter section and one in the center of each 40-acre subdivision with a 75' topographic tolerance allowed. (Order 30-78).	None
WILLOW RIDGE, SOUTH Bow Island (L. Cret.) Gas Sunburst (L. Cret.) Oil (Shut-in)	2 1	Statewide.	None

Field, Formation, Age	No. Prod. Wells	Spacing Regulations, Field Rules, and Remarks	Secondary or Water Disposal
WILLS CREEK, SOUTH Siluro (Ord.)	3	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 (Dev.)	1	Statewide.	None
WINNETT JUNCTION Tyler (Penn.)	4	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.)
WISHBONE Swift (U. Jur.)	1	Single spacing unit. (Order 87-81).	None
WOLF SPRINGS Amsden (Penn.) (Shut-in)	5 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).	None
WOODROW Siluro (Ord.) Red River (Ord.)	2	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 (Ord.)	2	Statewide	None
WRANGLER, NORTH Red River (Ord.)	1	Statewide.	None
WRIGHT CREEK Muddy (L. Cret.) (Shut-in)	4 1	80-acre spacing 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 (Ord.)	2	320-acre spacing units; well locations as specified for the Duperow and Red River formations that may be dually completed. (Order 92-81).	None





MONTANA **OIL AND GAS FIELDS, PIPELINES AND REFINERIES** **1983**

CONSERVATION
 Billings, Mont. 59102

BOARD OF OIL AND GAS CONSERVATION

PJK '83

STATE OF MONTANA SUMMARY OF PRODUCTION

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	
1.	Alkali Coulee	Red River	Sheridan	1981	10,900	43	2.20	3	11	40	13	—	320
2.	Anvil	Nisku	Roosevelt	1981	10,900	40	1.50	14	17	34	32	—	160
3.	Anvil	Red River	Roosevelt	1978	12,600	47	1.63	26	14	32	7	—	2,560
4.	Ash Creek	Shannon	Big Horn	1952	4,500	34	1.05	14	22	42	24	5	200
5.	Bainville, North	Ratcliffe	Roosevelt	1980	8,800	30	—	13	—	—	—	—	160
6.	Bainville, North	Red River	Roosevelt	1979	12,400	43	1.55	40	9	32	4	—	2,240
7.	Bainville, North	Winnipegosis	Roosevelt	1979	11,000	44	1.60	35	7	20	5	—	640
8.	Bainville, West	Red River	Roosevelt	1978	8,500	34	1.50	12	6	45	10	—	960
9.	Bainville II	Red River	Roosevelt	1981	12,700	42	1.20	40	10	35	6	—	320
10.	Bannatyne	Swift	Teton	1927	1,500	27	1.05	39	15	43	2	—	760
11.	Bears Den	Swift	Liberty	1924	2,300	39	1.08	20	9	35	22	—	280
12.	Bell Creek	Muddy	Powder River	1967	4,400	36	1.11	10	26	23	59	28	8,600
13.	Benrud, East	Nisku	Roosevelt	1962	7,500	46	1.37	22	15	30	45	—	480
14.	Benrud, Northeast	Nisku	Roosevelt	1964	7,400	46	1.40	23	16	30	42	—	160
15.	Big Muddy Creek	Mission Canyon	Roosevelt	1981	8,500	44	—	14	—	—	—	—	320
16.	Big Muddy Creek	Red River	Roosevelt	1975	11,900	48	1.72	11	14	36	20	—	1,280
17.	Big Wall	Amnsden	Musselshell	1953	2,500	19	1.01	17	16	35	23	—	280
18.	Big Wall	Tyler	Musselshell	1948	3,000	31	1.02	22	17	40	30	1	1,220
19.	Black Diamond	Red River	Wibaux	1981	11,310	27	1.31	4	40	10	2	—	640
20.	Blackfoot	Cut Bank, Greenhorn, Madison	Glacier	1957	3,500	30	1.11	15	15	35	9	22	360
21.	Border	Sunburst	Toole	1929	2,400	31	1.08	22	15	30	17	2	440
22.	Boulder	Red River	Richland	1976	10,400	46	2.30	11	22	16	14	—	160
23.	Bowes	Sawtooth	Blaine	1949	3,300	19	1.02	32	12	31	15	—	3,760
24.	Box Canyon	Red River	Richland	1980	11,800	46	—	11	—	—	—	—	640
25.	Bradley	Madison	Glacier	1959	3,500	26	1.25	6	11	49	50	—	240
26.	Brady	Sunburst	Pondera	1942	1,500	34	1.01	10	12	30	5	—	640
27.	Breed Creek	Tyler	Rosebud	1976	4,900	32	1.15	20	15	37	51	—	160
28.	Brorson	Madison	Richland	1954	9,600	32	1.40	40	5	40	11	—	1,280
29.	Brorson	Red River	Richland	1968	12,600	48	1.70	20	10	35	38	—	960
30.	Brorson, South	Madison	Richland	1978	9,000	42	—	52	—	—	—	—	160
31.	Brorson, South	Red River	Richland	1968	12,600	48	1.70	20	12	30	6	—	960
32.	Brush Lake	Red River	Sheridan	1969	11,400	40	1.50	30	14	35	12	—	2,240
33.	Burget, East	Madison	Roosevelt	1981	9,000	—	—	36	—	—	—	—	800
34.	Cabin Creek Unit 1	Siluro-Ord	Fallon	1953	9,000	33	1.20	50	13	30	19	11	11,200
35.	Cabin Creek Unit 2	Madison	Fallon	1956	7,300	33	1.13	25	11	30	52	—	2,260
36.	Canal	Madison	Richland	1977	9,200	33	1.30	47	2	41	37	—	640
37.	Canal	Red River	Richland	1970	12,700	47	2.07	58	8	40	19	—	320
38.	Cannonball	Red River	Fallon	1980	10,300	34	2.00	14	11	34	8	—	160
39.	Cartyle	Red River	Wibaux	1978	10,700	37	1.30	12	12	27	6	—	640
40.	Cat Creek, East	Swift	Garfield	1920	1,200	52	1.10	6	22	40	70	8	880
41.	Cat Creek, Mosby	Swift	Garfield, Petroleum	1945	1,700	52	1.10	25	18	40	11	1	880
42.	Cat Creek West Nonunit	Cret. Jur.	Petroleum	1945	1,600	52	1.10	6	22	40	44	—	640
43.	Cat Creek West Units 1 & 2 Cat	Petroleum	Petroleum	1920	1,100	52	1.10	51	21	19	14	5	1,400
44.	Charlie Creek	Nisku	Richland	1976	9,900	42	1.60	12	6	35	83	—	320
45.	Charlie Creek, East	Red River	Richland	1980	11,900	45	—	27	—	—	—	—	960
46.	Clear Lake	Madison	Sheridan	1978	7,600	33	1.15	10	5	30	46	—	320
47.	Clear Lake	Nisku	Sheridan	1979	9,000	43	1.53	31	11	27	2	—	320
48.	Clear Lake	Red River	Sheridan	1977	11,200	42	1.65	32	18	35	4	—	2,240
49.	Colored Canyon	Red River	Sheridan	1978	11,300	40	1.40	18	13	28	4	—	1,920
50.	Comertown	Nisku	Sheridan	—	—	—	—	—	—	—	—	—	320
51.	Comertown	Ratcliffe	Sheridan	—	—	—	—	—	—	—	—	—	160
52.	Comertown	Red River	Sheridan	1980	10,500	30	1.30	19	10	38	14	—	800
53.	Cow Creek	Charles	McCone	1969	6,900	41	—	—	—	35	—	—	160
54.	Cow Creek, East	Kibby	McCone	1971	6,300	35	1.05	15	15	—	9	—	1,600
55.	Crane	Devonian	Richland	1979	11,900	47	1.65	20	12	35	15	—	1,280
56.	Cupton	Red River	Fallon	1955	9,600	38	1.25	40	12	16	4	—	2,240
57.	Cut Bank	Cut Bank	Toole, Glacier, Pondera	1932	2,900	31	1.09	18	15	35	33	6	30,800
58.	Dagmar	Red River	Sheridan	1976	11,300	37	1.65	22	16	35	5	—	1,280
59.	Deadmans Coulee	Nisku	Roosevelt	1981	7,500	45	1.10	10	11	40	9	—	640
60.	Dean Dome	Greybull	Stillwater	1966	2,500	10	—	2	—	—	—	—	240
61.	Deer Creek	Interlake	Dawson	1956	9,400	43	1.20	38	7	30	40	—	480
62.	Diamond Point	Red River	Roosevelt	1976	11,900	47	—	26	—	—	—	—	640
63.	Divide	Madison	Sheridan	1979	7,900	33	1.35	25	7	42	14	—	2,240
64.	Dry Creek	Greybull	Carbon	—	—	—	—	—	—	—	—	—	80
65.	Dugout Creek	Red River	Richland	1981	12,000	—	—	32	—	—	—	—	320
66.	Dwyer	Ratcliffe	Sheridan	1960	8,000	37	1.32	38	11	56	8	7	4,480
67.	Eagle	Madison	Richland	1977	8,900	32	1.22	15	9	35	3	—	4,320
68.	Eagle	Red River	Richland	—	—	—	—	—	—	—	—	—	320
69.	Elk Basin	Frontier	Carbon	—	—	—	—	—	—	—	—	—	520
70.	Elk Basin	Madison	Carbon	1942	5,300	28	1.12	224	12	9	33	—	1,080
71.	Elk Basin	Tensleep	Carbon	1942	5,000	29	1.16	124	11	10	21	—	1,400
72.	Enid, North	Madison	Richland	1982	—	—	—	—	—	—	—	—	320
73.	Enid, North	Red River	Richland	1979	11,800	47	1.75	8	7	34	11	—	960
74.	Fairview	Madison	Richland	1981	9,500	—	—	—	—	—	—	—	800
75.	Fairview	Red River	Richland	1965	12,700	47	1.70	35	11	28	19	—	3,200
76.	Fairview, East	Red River	Richland	1981	12,800	48	1.50	24	13	32	7	—	640
77.	Fairview, West	Ratcliffe	Richland	1980	9,200	37	—	60	3	—	—	—	160
78.	Fertile Prairie	Red River	Fallon	1952	9,300	29	1.20	6	14	27	19	—	800
79.	Fishhook	Red River	Sheridan	1980	11,200	41	1.28	10	10	31	21	—	1,280
80.	Fiat Coulee	Swift	Liberty	1933	2,900	37	1.10	18	21	35	30	4	1,320

SUMMARY OF PRODUCING OIL FIELDS—1983

NET PAY FT.	PORO- SITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1983 PRODUCTION		CUMMULATIVE PRODUCTION 1-1-84 (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			
3	11	40	13	—	320	223	696	30	—	30	94	31	3,589	10	16	14	1.
14	17	34	32	—	160	1,300	8,125	420	—	420	2,625	188	54,440	149	109	311	2.
26	14	32	7	—	2,560	30,159	11,780	2,110	—	2,110	824	32	278,101	762	1,287	823	3.
14	22	42	24	5	200	2,640	13,200	630	180	810	4,050	289	5,729	16	803	7	4.
13	—	—	—	—	160	—	—	—	—	—	—	—	9,723	27	25	88	5.
40	9	32	4	—	2,240	27,446	12,252	980	—	980	438	11	111,113	304	483	497	6.
35	7	20	5	—	640	6,082	9,503	310	—	310	484	14	37,524	103	125	185	7.
12	6	45	10	—	960	1,966	2,047	200	—	200	208	17	21,319	58	139	61	8.
40	10	35	6	—	320	5,379	16,809	320	—	320	1,000	25	24,681	68	69	251	9.
39	15	43	2	—	760	18,724	24,636	320	—	320	421	11	13,535	37	294	26	10.
20	9	35	22	—	280	2,353	8,403	520	—	520	1,857	93	6,857	19	479	41	11.
10	26	23	59	28	8,600	120,334	13,992	71,530	67,650	139,180	16,184	1,618	2,792,590	7,651	122,320	16,860	12.
22	15	30	45	—	480	6,279	13,081	2,850	—	2,850	5,938	270	46,592	128	2,550	300	13.
23	16	30	42	—	160	2,284	14,275	960	—	960	6,000	261	8,596	24	937	23	14.
14	—	—	—	—	320	—	—	—	—	—	—	—	9,075	25	25	36	15.
11	14	36	20	—	1,280	5,690	4,445	1,150	—	1,150	898	82	38,260	105	1,049	101	16.
17	16	35	23	—	280	3,802	13,578	880	—	880	3,143	185	5,478	15	871	9	17.
22	17	40	30	1	1,220	20,822	17,067	6,350	230	6,580	5,393	245	62,668	172	6,344	236	18.
4	40	10	2	—	640	5,458	8,528	100	—	100	156	39	21,953	60	70	30	19.
15	15	35	9	22	360	3,680	10,222	320	1,100	1,420	3,944	263	49,431	135	1,256	164	20.
22	15	30	17	2	440	7,301	16,593	1,270	120	1,390	3,159	144	10,122	28	1,355	35	21.
11	22	16	14	—	160	1,097	6,856	150	—	150	938	85	5,385	15	141	9	22.
32	12	31	15	—	3,760	75,774	20,152	11,080	—	11,080	2,947	92	129,561	355	8,968	2,112	23.
11	—	—	—	—	640	—	—	—	—	—	—	—	13,023	36	115	18	24.
6	11	49	50	—	240	501	2,087	250	—	250	1,042	174	4,426	12	237	13	25.
10	12	30	5	—	640	4,129	6,451	200	—	200	313	31	15,819	43	126	74	26.
20	15	37	51	—	160	2,040	12,750	1,050	—	1,050	6,563	328	92,354	253	692	358	27.
40	5	40	11	—	1,280	8,512	6,650	950	—	950	742	19	41,242	113	610	340	28.
20	10	35	38	—	960	5,695	5,932	2,170	—	2,170	2,260	113	46,762	128	2,028	142	29.
52	—	—	—	—	160	—	—	—	—	—	—	—	5,901	16	16	13	30.
20	12	30	6	—	960	7,360	7,666	460	—	460	479	24	52,259	143	162	298	31.
30	14	35	12	—	2,240	31,628	14,119	3,950	—	3,950	1,763	59	87,445	240	2,144	1,806	32.
36	—	—	—	—	800	—	—	—	—	—	—	—	25,635	70	43	49	33.
50	13	30	19	11	11,200	329,456	29,415	61,560	25,600	87,160	7,782	156	1,285,437	3,522	67,825	19,335	34.
25	11	30	52	—	2,260	29,868	13,215	15,600	—	15,600	6,903	276	94,230	258	14,445	1,155	35.
47	2	41	37	—	640	2,118	3,309	780	—	780	1,219	26	78,924	216	134	596	36.
58	8	40	19	—	320	3,339	10,434	620	—	620	1,938	33	15,751	43	556	64	37.
14	11	34	8	—	160	646	4,037	50	—	50	313	22	5,737	16	45	5	38.
12	12	27	6	—	640	4,015	6,273	250	—	250	391	33	27,617	76	209	41	39.
6	22	40	70	8	880	4,915	5,585	3,450	200	3,650	4,148	691	12,470	34	3,575	75	40.
25	18	40	11	1	880	16,757	19,042	1,880	100	1,980	2,250	90	8,812	24	1,921	59	41.
6	22	40	44	—	640	3,575	5,585	1,560	—	1,560	2,438	406	12,945	35	1,532	28	42.
51	21	19	14	5	1,400	85,656	61,182	11,860	3,760	15,620	11,157	219	43,992	121	15,321	299	43.
12	6	35	83	—	320	726	2,268	600	—	600	1,875	156	28,543	78	535	65	44.
27	—	—	—	—	960	—	—	—	—	—	—	—	36,669	100	181	114	45.
10	5	30	46	—	320	756	2,362	350	—	350	1,094	109	24,810	68	149	201	46.
31	11	27	2	—	320	4,039	12,621	80	—	80	250	8	8,263	23	55	25	47.
32	18	35	4	—	2,240	39,432	17,603	1,700	—	1,700	759	24	137,988	378	1,121	579	48.
18	13	28	4	—	1,920	17,926	9,336	660	—	660	344	19	61,417	168	491	169	49.
—	—	—	—	—	320	—	—	—	—	—	—	—	93,434	256	112	105	50.
—	—	—	—	—	160	—	—	—	—	—	—	—	10,905	30	24	51	51.
19	10	38	14	—	800	5,624	7,030	770	—	770	963	51	205,888	564	757	13	52.
—	—	35	—	—	160	—	—	—	—	—	—	—	3,207	9	121	15	53.
15	15	—	9	—	1,600	26,599	16,624	2,330	—	2,330	1,456	97	58,217	159	2,118	212	54.
20	12	35	15	—	1,280	9,389	7,335	1,410	—	1,410	1,102	55	152,722	418	677	733	55.
40	12	16	4	—	2,240	56,054	25,024	2,180	—	2,180	973	24	89,287	245	1,765	415	56.
18	15	35	33	6	30,800	384,726	12,491	127,880	34,440	162,320	5,270	293	1,139,953	3,123	156,172	6,148	57.
22	16	35	5	—	1,280	13,770	10,757	630	—	630	492	22	44,434	122	370	260	58.
10	11	40	9	—	640	2,979	4,654	260	—	260	406	41	50,207	138	184	76	59.
2	—	—	—	—	240	—	—	—	48	—	—	—	9,407	26	66	6	60.
38	7	30	40	—	480	5,778	12,037	2,310	—	2,310	4,813	127	4,456	12	2,289	21	61.
26	—	—	—	—	640	—	—	—	—	—	—	—	90,658	248	413	123	62.
25	7	42	14	—	2,240	13,066	5,833	1,850	—	1,850	826	33	235,878	646	858	992	63.
—	—	—	—	—	80	—	—	—	—	—	—	—	8,753	24	18	10	64.
32	—	—	—	—	320	—	—	—	—	—	—	—	7,525	21	63	6	65.
38	11	56	8	7	4,480	48,426	10,809	3,740	3,400	7,140	1,594	42	112,362	308	6,573	567	66.
15	9	35	3	—	4,320	24,106	5,580	780	—	780	181	12	148,434	407	677	103	67.
—	—	—	—	—	320	—	—	—	—	—	—	—	14,172	39	224	10	68.
—	—	—	—	—	520	—	—	—	—	—	—	—	8,329	23	1,692	19	69.
224	12	9	33	—	1,080	182,989	169,434	60,960	—	60,960	56,444	252	351,166	962	55,985	4,975	70.
124	11	10	21	—	1,400	114,941	82,100	23,690	—	23,690	16,921	136	276,312	757	20,888	2,802	71.
—	—	—	—	—	320	—	—	—	—	—	—	—	13,440	37	42	9	72.
8	7	34	11	—	960	1,573	1,638	170	—	170	177	22	39,933	109	125	45	73.
—	—	—	—	—	800	—	—	—	—	—	—	—	59,721	164	120	243	74.
35	11	28	19	—	3,200	40,480	12,650	7,710	—	7,710	2,409	69	251,834	690	6,839	871	75.
24	13	32	7	—	640	7,023	10,973	470	—	470	734	31	75,892	208	251	219	76.
60	3	—	—	—	160	—	—	—	—	—	—	—	33,649	92	75	112	77.
6	14	27	19	—	800	3,171	3,963	600	—	600	750	125	32,020	88	540	60	78.
10	10	31	21	—	1,280	5,353	4,182	1,110	—	1,110	867	87	162,956	446	513	597	79.
18	21	35	30	4	1,320	22,874	17,328	6,840	770	7,610	5,765	320	200,954	551	3,927	3,683	80.

STATE OF MONTANA SUMMARY OF PRODUCTION

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR %		PRODUCED ACRE ACR
											PRIMARY	SECONDARY	
81.	Flat Lake	Ratcliffe	Sheridan	1964	6,500	33	1.26	14	15	45	5	21	9,600
82.	Flat Lake, South	Ratcliffe	Sheridan	1966	6,500	32	1.26	9	12	45	29	—	1,120
83.	Flaxville	Madison	Daniels	1982	—	—	—	—	—	—	—	—	480
84.	Fort Gilbert	Madison	Richland	1981	9,200	34	—	358	—	—	—	—	2,240
85.	Fort Gilbert	Red River	Richland	1970	12,500	48	1.89	42	12	20	6	—	1,280
86.	Four Mile Creek	Red River	Richland	1975	12,500	47	1.50	35	15	35	7	—	320
87.	Four Mile Creek, West	Red River	Richland	1976	12,500	45	1.30	15	13	40	8	—	640
88.	Fox Creek	Mission Canyon	Richland	1978	8,900	29	1.20	71	3	30	5	—	160
89.	Frannie	Tensleep	Carbon	1929	2,700	27	1.02	29	19	16	30	—	80
90.	Fred and George	Sunburst	Toole	1963	2,600	39	1.20	31	27	30	14	14	1,680
91.	Frog Coulee	Red River	Richland	1979	11,000	49	1.42	15	18	35	4	—	320
92.	Froid, South	Red River	Roosevelt	1970	12,100	48	1.55	12	17	25	8	—	320
93.	Gage	Amsden	Musselshell	1944	6,000	—	—	—	—	—	—	—	160
94.	Gas City	Red River	Dawson	1955	8,900	38	1.28	25	12	35	25	5	2,800
95.	Glendive	Stoney Mountain	Dawson	1952	8,900	38	1.24	147	8	35	13	—	2,240
96.	Goose Lake	Ratcliffe, Red River	Sheridan	1962	7,000	34	1.20	40	16	55	4	3	6,880
97.	Goose Lake, West	Red River	Sheridan	1981	11,500	39	—	29	—	—	—	—	960
98.	Gossett	Mission Canyon, Red River	Richland	—	—	—	—	—	—	—	—	—	320
99.	Grabben Coulee	Madison	Glacier	1961	2,900	34	1.10	15	12	30	6	—	3,120
100.	Grandview, East	Swift	Liberty	1978	2,500	—	—	—	—	—	—	80	80
101.	Green Coulee	Red River	Sheridan	1981	11,100	—	—	14	—	—	—	—	640
102.	Gumbo Ridge	Tyler	Rosebud	1975	4,900	32	1.10	16	13	35	5	33	240
103.	Gunsight	Madison	Roosevelt	—	—	—	—	—	—	—	—	—	480
104.	Gypsy Basin	Sawtooth	Teton, Pondera	1979	—	36	—	10	—	—	—	—	640
105.	Hardscrabble Creek	Red River	Richland	—	—	—	—	—	—	—	—	—	640
106.	Hawk Haven	Mission Canyon	Richland	—	—	—	—	—	—	—	—	—	160
107.	Hay Creek	Mission Canyon	Richland	1969	9,600	39	1.15	40	5	—	5	—	320
108.	Hay Creek	Red River	Richland	1969	12,600	46	1.90	53	12	30	5	—	960
109.	Hiawatha	Tyler	Musselshell	1967	5,000	33	1.15	34	12	25	19	—	400
110.	Highfive	Tyler	Rosebud	1976	5,600	33	1.15	20	20	—	11	—	960
111.	Honker	Red River	Sheridan	1980	11,110	39	1.40	30	14	58	6	—	320
112.	Howard Coulee	Tyler	Musselshell	—	—	—	—	—	—	—	—	—	160
113.	Injun Creek	Tyler	Rosebud	1981	6,000	37	—	—	—	—	—	—	80
114.	Intake II	Red River	Richland	1981	12,400	43	1.20	20	13	30	8	—	640
115.	Ivanhoe	Tyler, Amsden, Heath	Musselshell	1956	4,100	33	1.08	29	15	20	30	—	600
116.	Jim Coulee, North	Tyler	Musselshell	1972	—	29	1.60	30	18	54	89	—	40
117.	Katy Lake, North	Mission Canyon	Sheridan	1981	—	32	—	—	—	—	—	—	120
118.	Katy Lake, North	Red River	Sheridan	1979	11,300	46	1.42	19	15	30	20	—	1,920
119.	Keg Coulee	Tyler	Musselshell	1960	4,600	33	1.15	19	14	32	26	3	1,520
120.	Keg Coulee, North	Tyler	Musselshell	1964	4,600	33	1.15	14	12	32	25	—	240
121.	Kelley	Tyler	Musselshell	1966	4,400	33	1.15	50	13	30	13	—	240
122.	Kevin Sunburst	Sunburst	Toole	1922	1,500	32	1.08	7	20	35	27	3	40,480
123.	Kincheloe Ranch, West	Tyler	Rosebud	1979	5,500	35	—	—	—	—	—	—	160
124.	Laird Creek, West	Swift	Liberty	1968	2,800	39	1.13	14	16	50	12	2	480
125.	Lambert	Red River	Richland	1980	12,200	44	—	7	13	40	—	—	1,280
126.	Landslide Butte	Sun River	Glacier	1967	4,700	41	—	24	—	—	—	—	200
127.	Leary	Muddy	Powder River	1969	5,800	41	1.15	7	17	33	34	—	400
128.	Little Beaver	Red River	Fallon	1952	8,300	29	1.40	37	12	35	8	23	3,840
129.	Little Beaver, East	Red River	Fallon	1954	8,300	30	1.50	24	13	35	41	—	1,600
130.	Little Phantom	Sunburst	Toole	1977	—	—	—	—	—	—	—	—	40
131.	Little Wall Creek	Tyler	Musselshell	1970	3,700	33	1.10	40	15	33	12	—	1,200
132.	Lodge Grass	Tensleep	Big Horn	1964	6,520	22	1.16	15	15	34	5	—	640
133.	Lone Tree Creek	Red River	Richland	1970	12,500	47	1.86	19	11	30	19	—	3,200
134.	Lone Tree Creek, West	Red River	Richland	1981	12,500	44	1.25	25	11	55	3	—	640
135.	Long Creek	Charles	Roosevelt	1976	6,500	38	—	30	—	20	—	—	160
136.	Long Creek, West	Nisku	Roosevelt	1977	7,700	39	—	24	18	20	—	—	320
137.	Lookout Butte	Siluro-Ord	Fallon	1961	8,900	33	1.15	15	15	25	36	19	5,280
138.	Lowell	Red River	Sheridan	1979	11,300	35	—	7	8	45	—	—	1,280
139.	Mackay Dome	Greybull	Stillwater	1960	3,700	12	1.00	56	10	20	1	—	160
140.	Mason Lake	Dakota	Musselshell	1964	4,200	47	1.10	12	15	43	15	—	1,040
141.	Mason Lake, North	Amsden	Musselshell	1975	—	—	—	—	—	—	—	—	40
142.	McCabe	Ratcliffe	Roosevelt	1973	8,700	37	1.50	20	13	40	8	—	480
143.	Medicine Lake	Red River	Sheridan	1979	11,700	44	1.78	31	17	11	6	—	3,520
144.	Melstone	Tyler	Musselshell	1948	4,400	34	1.09	25	15	40	30	—	800
145.	Midby	Red River	Sheridan	1981	10,500	41	1.49	29	11	8	—	—	7,160
146.	Missouri Breaks	Red River	Roosevelt	1982	12,000	45	1.74	15	15	30	8	—	320
147.	Mondak, West	Duperow	Richland	1979	10,600	—	—	—	—	—	—	—	320
148.	Mondak, West	Madison	Richland	1976	9,200	30	1.30	100	4	60	4	—	10,880
149.	Mondak, West	Red River	Richland	1976	12,200	48	1.64	45	10	43	14	—	2,240
150.	Monarch	Siluro-Ord	Fallon	1958	8,400	32	1.10	31	7	35	20	4	2,720
151.	Mosser Dome	Kootenai	Yellowstone	1936	1,000	22	1.01	15	24	30	4	—	480
152.	Mustang	Red River	Richland	1979	12,500	47	1.41	17	12	—	7	—	960
153.	Nohly	Red River	Richland	1972	12,900	46	1.43	27	10	40	24	—	960
154.	North Fork	Madison	Richland	1977	9,500	38	—	—	—	—	—	—	640
155.	North Fork	Red River	Richland	1976	12,700	46	1.50	12	14	57	8	—	640
156.	Ollie	Red River	Fallon	1980	10,200	36	—	56	—	—	—	—	160
157.	Otis Creek & South	Red River	Richland	1970	12,700	48	1.76	23	12	35	15	—	1,280
158.	Otter Creek	Red River	Sheridan	1981	11,000	44	—	—	—	—	—	—	160
159.	Outlook	Duperow	Sheridan	1964	8,200	39	1.50	15	10	25	41	—	640
160.	Outlook	Red River	Sheridan	1956	9,000	38	1.12	20	8	30	81	—	960

MMARY OF PRODUCING OIL FIELDS—1983

PORO- SITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1983 PRODUCTION		CUMMULATIVE PRODUCTION 1-1-84 (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			
15	45	5	21	9,600	68,270	7,111	3,090	13,180	16,270	1,695	121	432,133	1,184	13,259	3,011	81.
12	45	29	—	1,120	4,096	3,657	1,170	—	1,170	1,045	116	55,315	152	1,003	167	82.
—	—	—	—	480	—	—	—	—	—	—	—	15,141	41	31	14	83.
—	—	—	—	2,240	—	—	—	—	—	—	—	100,668	276	351	135	84.
12	20	6	—	1,280	21,185	16,550	1,330	—	1,330	1,039	25	26,134	72	1,236	94	85.
15	35	7	—	320	5,648	17,649	370	—	370	1,156	33	23,755	65	291	79	86.
13	40	8	—	640	4,469	6,982	360	—	360	563	38	31,272	86	206	154	87.
3	30	5	—	160	1,542	9,637	70	—	70	438	6	10,778	30	23	47	88.
19	16	30	—	80	2,816	35,199	850	—	850	10,625	366	7,236	20	739	111	89.
27	30	14	14	1,680	63,636	37,878	9,140	4,800	13,940	8,298	268	176,921	485	12,419	1,521	90.
18	35	4	—	320	3,068	9,587	120	—	120	375	25	6,414	18	112	8	91.
17	25	8	—	320	2,451	7,659	190	—	190	594	50	5,321	15	187	3	92.
—	—	—	—	160	—	—	—	—	—	—	—	8,033	22	607	10	93.
12	35	25	5	2,800	33,093	11,818	8,230	1,760	9,990	3,568	143	123,766	339	9,419	571	94.
8	35	13	—	2,240	107,126	47,824	13,640	—	13,640	6,089	41	161,835	443	11,768	1,872	95.
16	55	4	3	6,880	128,100	18,619	5,320	3,580	8,900	1,294	32	200,154	548	7,899	1,001	96.
—	—	—	—	960	—	—	—	—	—	—	—	89,193	244	188	177	97.
—	—	—	—	320	—	—	—	—	—	—	—	39,371	108	54	15	98.
12	30	6	—	3,120	27,726	8,886	1,700	—	1,700	545	36	79,207	217	1,608	92	99.
—	—	—	80	80	—	—	—	—	—	—	—	2,855	8	24	8	100.
—	—	—	—	640	—	—	—	—	—	—	—	32,155	88	74	124	101.
13	35	5	33	240	2,288	9,533	120	760	880	3,667	229	47,684	131	497	383	102.
—	—	—	—	480	—	—	—	—	—	—	—	26,132	72	49	45	103.
—	—	—	—	640	—	—	—	—	—	—	—	26,989	74	369	214	104.
—	—	—	—	640	—	—	—	—	—	—	—	30,343	83	42	12	105.
—	—	—	—	160	—	—	—	—	—	—	—	1,827	5	7	10	106.
5	—	5	—	320	4,317	13,490	220	—	220	688	17	10,060	28	197	23	107.
12	30	5	—	960	17,451	18,178	950	—	950	990	19	34,184	94	920	30	108.
12	25	19	—	400	8,257	20,642	1,530	—	1,530	3,825	113	24,684	68	1,431	99	109.
20	—	11	—	960	25,905	26,984	2,880	—	2,880	3,000	150	160,034	438	1,555	1,325	110.
14	58	6	—	320	3,128	9,775	200	—	200	625	21	15,047	41	56	144	111.
—	—	—	—	160	—	—	—	—	—	—	—	5,784	16	115	5	112.
—	—	—	—	80	—	—	—	—	—	—	—	24,793	68	93	7	113.
13	30	8	—	640	7,530	11,765	620	—	620	969	48	141,523	388	339	281	114.
15	20	30	—	600	14,999	24,998	4,500	—	4,500	7,500	259	16,816	46	4,464	36	115.
18	54	89	—	40	482	12,050	430	—	430	10,750	358	9,022	25	269	161	116.
—	—	—	—	120	—	—	—	—	—	—	—	155,461	426	298	331	117.
15	30	20	—	1,920	20,927	10,899	4,150	—	4,150	2,161	114	297,290	814	1,513	2,637	118.
14	32	26	3	1,520	18,548	12,202	4,850	550	5,400	3,553	187	90,897	249	5,071	329	119.
12	32	25	—	240	1,850	7,708	470	—	470	1,958	140	15,729	43	409	61	120.
13	30	13	—	240	7,367	30,695	960	—	960	4,000	80	9,793	27	916	44	121.
20	35	27	3	40,480	264,611	6,536	70,570	7,970	78,540	1,940	277	711,990	1,951	75,110	3,430	122.
—	—	—	—	160	—	—	—	—	—	—	—	67,055	184	304	573	123.
16	50	12	2	480	3,691	7,689	430	130	560	1,167	83	10,615	29	543	17	124.
13	40	—	—	1,280	—	—	—	—	—	—	—	92,435	253	241	64	125.
—	—	—	—	200	—	—	—	—	—	—	—	16,474	45	63	7	126.
17	33	34	—	400	2,151	5,377	740	—	740	1,850	264	39,432	108	485	255	127.
12	35	8	23	3,840	61,411	15,992	5,000	8,850	13,850	3,607	97	362,522	993	10,411	3,439	128.
13	35	41	—	1,600	16,782	10,488	6,820	—	6,820	4,263	178	126,306	346	4,903	1,917	129.
—	—	—	—	40	—	—	—	—	—	—	—	4,264	12	39	10	130.
15	33	12	—	1,200	34,022	28,351	4,140	—	4,140	3,450	86	236,237	647	2,695	1,445	131.
15	34	5	—	640	6,356	9,931	310	—	310	484	32	5,684	16	270	40	132.
11	30	19	—	3,200	19,527	6,102	3,720	—	3,720	1,163	61	127,968	351	2,841	879	133.
11	55	3	—	640	4,915	7,679	130	—	130	203	8	12,569	34	26	104	134.
—	20	—	—	160	—	—	—	—	—	—	—	4,354	12	48	23	135.
18	20	—	—	320	—	—	—	—	—	—	—	61,851	169	377	553	136.
15	25	36	19	5,280	60,108	11,384	21,800	1,300	23,100	4,375	292	497,066	1,362	21,003	2,097	137.
8	45	—	—	1,280	—	—	—	—	—	—	—	27,692	76	137	21	138.
10	20	1	—	160	5,561	34,756	80	—	80	500	9	9,722	27	54	26	139.
15	43	15	—	1,040	7,526	7,236	1,130	—	1,130	1,087	91	77,386	212	737	393	140.
—	—	—	—	40	—	—	—	—	—	—	—	1,596	4	15	14	141.
13	40	8	—	480	3,873	8,068	300	—	300	625	31	28,149	77	148	152	142.
17	31	6	—	3,520	55,787	15,848	3,070	—	3,070	872	28	250,669	687	1,725	1,345	143.
15	30	30	—	800	14,947	18,683	4,420	—	4,420	5,525	221	157,683	432	2,821	1,599	144.
11	38	—	—	7,160	61,840	8,636	70	—	70	10	—	15,210	42	65	5	145.
15	30	8	—	320	2,247	7,021	170	—	170	531	35	58,670	161	144	26	146.
—	—	—	—	320	—	—	—	—	—	—	—	9,603	26	90	14	147.
4	60	4	—	10,880	103,886	9,548	4,270	—	4,270	392	4	344,170	943	3,314	956	148.
10	43	14	—	2,240	27,179	12,133	3,880	—	3,880	1,732	38	312,960	857	2,127	1,753	149.
7	35	20	4	2,720	27,058	9,947	5,460	960	6,420	2,360	76	128,593	352	4,741	1,679	150.
24	30	4	—	480	9,291	19,356	360	—	360	750	50	8,167	22	316	44	151.
12	—	7	—	960	10,775	11,223	800	—	800	833	49	53,329	146	301	499	152.
10	40	24	—	960	8,437	8,788	2,040	—	2,040	2,125	79	63,634	174	1,125	915	153.
—	—	—	—	640	—	—	—	—	—	—	—	27,419	75	149	89	154.
14	57	8	—	640	2,391	3,735	190	—	190	297	25	8,735	24	151	39	155.
—	—	—	—	160	—	—	—	—	—	—	—	15,451	42	66	61	156.
12	35	15	—	1,280	10,122	7,907	1,530	—	1,530	1,195	52	73,826	202	799	731	157.
—	—	—	—	160	—	—	—	—	—	—	—	8,385	23	27	15	158.
10	25	41	—	640	3,724	5,818	1,510	—	1,510	2,359	157	33,710	92	1,470	40	159.
8	30	81	—	960	7,448	7,758	6,070	—	6,070	6,323	316	54,707	150	5,696	374	160.

STATE OF MONTANA SUMMARY OF PRODUCTION

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	
161.	Outlook	Winnipegosis	Sheridan	1971	9,000	39	1.12	18	8	30	23	—	480
162.	Outlook, South	Winnipegosis	Sheridan	1957	9,100	39	1.12	18	8	30	21	—	480
163.	Outlook, West	Winnipegosis	Sheridan	1958	9,100	39	1.12	16	8	30	21	—	480
164.	Oxbow	Red River	Roosevelt	1978	12,600	47	1.50	18	12	45	16	—	320
165.	Palamino	Nisku	Roosevelt	1980	7,500	48	1.15	39	16	20	7	—	480
166.	Pelican	Red River	Sheridan	1979	11,400	47	1.30	19	6	26	10	—	320
167.	Pennel	Mission Canyon	Fallon	1955	7,000	31	1.10	38	3	30	58	9	23,420
168.	Pine	Red River, Madison	Prairie	1952	8,400	34	1.17	32	12	30	22	23	15,520
169.	Plentywood	Red River	Sheridan	1981	10,900	39	1.50	22	15	37	1	—	320
170.	Pondera	Sun River	Pondera	1927	2,100	34	1.20	15	16	31	17	—	13,880
171.	Poplar, East	Charles	Roosevelt	1952	5,500	40	1.10	25	11	30	19	—	18,070
172.	Poplar, East	Heath	Roosevelt	1969	4,900	38	1.10	8	11	50	26	—	480
173.	Poplar, East	Nisku	Roosevelt	1969	7,300	42	1.40	12	8	50	28	—	320
174.	Poplar, Northwest	Madison	Roosevelt	1952	6,300	40	1.10	16	10	45	11	—	3,520
175.	Poplar, Southeast	Charles	Roosevelt	1952	5,500	40	1.10	25	11	30	8	—	160
176.	Prairie Elk	Charles	McCone	1965	6,100	32	1.00	5	12	35	7	—	320
177.	Prichard Creek	Sunburst	Toole	1970	2,700	—	—	—	—	—	—	—	200
178.	Putnam	Madison	Richland	1978	9,500	34	1.42	92	6	35	2	—	800
179.	Putnam	Red River	Richland	1969	11,900	41	1.75	16	9	30	15	—	4,160
180.	Rabbit Hills	Sawtooth	Blaine	1972	4,000	21	1.15	12	18	16	13	—	800
181.	Rainbow	Red River	Richland	1982	12,500	46	2.20	28	14	45	3	—	320
182.	Rattler Butte	Tyler	Rosebud	1975	5,300	35	1.10	25	12	60	40	—	240
183.	Raymond	Mississippian	Sheridan	1972	6,800	32	1.09	10	10	—	10	—	1,760
184.	Raymond	Nisku	Sheridan	1972	7,900	50	1.40	22	9	—	9	—	640
185.	Raymond	Red River	Sheridan	1972	10,000	39	1.42	33	12	10	4	—	960
186.	Raymond	Winnipegosis	Sheridan	1972	9,300	42	1.17	40	5	27	37	—	960
187.	Raymond, North	Red River	Sheridan	—	—	—	—	—	—	—	—	—	320
188.	Reagan	Madison	Glacier	1947	3,700	38	1.10	11	12	30	44	14	2,600
189.	Red Bank	Madison	Roosevelt	1980	13,000	45	—	—	—	—	—	—	5,120
190.	Red Bank	Red River	Roosevelt	1980	13,000	—	—	—	—	—	—	—	960
191.	Red Bank, South	Red River	Roosevelt	1981	13,000	47	—	20	17	29	—	—	320
192.	Red Creek	Cut Bank	Glacier	1958	2,600	31	1.08	20	19	30	24	2	1,410
193.	Red Fox	Nisku	Roosevelt	1967	7,700	45	1.40	10	18	15	28	—	160
194.	Refuge	Red River	Sheridan	1979	11,300	44	1.69	3	5	—	86	—	320
195.	Repeat	Red River	Carter	1956	8,600	23	1.02	25	10	30	26	—	160
196.	Reserve	Red River	Sheridan	1966	11,100	39	1.30	18	6	30	21	—	1,600
197.	Richey	Charles	Dawson, McCone	1951	7,000	39	1.20	25	8	30	15	—	1,440
198.	Ridgellawn	Madison	Richland	1977	8,900	35	1.18	54	3	50	8	—	4,640
199.	Ridgellawn	Red River	Richland	1980	12,500	50	—	15	—	—	—	—	1,920
200.	Rip Rap Coulee	Ratcliffe	Roosevelt	1975	8,800	34	1.30	14	14	45	8	—	800
201.	Riverbend	Red River	Richland	1981	12,000	44	1.42	12	12	30	7	—	320
202.	Rocky Point	Red River	Roosevelt	1978	11,800	49	1.80	19	14	47	10	—	640
203.	Rosebud	Tyler	Rosebud	1974	5,000	34	1.24	32	14	48	15	—	200
204.	Royals	Dawson Bay	Dawson	1980	11,700	43	1.93	46	5	32	12	—	320
205.	Rush Mountain	Red River	Sheridan	1968	12,000	39	1.62	14	10	33	29	—	320
206.	Salt Lake	Nisku	Sheridan	1970	7,900	43	1.50	23	11	35	10	—	480
207.	Sand Creek	Red River	Dawson	—	—	—	—	—	—	—	—	—	1,040
208.	Second Creek	Red River	Richland	1972	12,700	46	1.50	30	7	40	11	—	1,600
209.	Shotgun Creek	Red River	Roosevelt	—	—	—	—	—	—	—	—	—	320
210.	Sidney	Madison	Richland	1976	9,000	34	1.30	60	4	50	5	—	7,040
211.	Sidney	Red River	Richland	1981	12,500	41	1.70	30	11	45	7	—	640
212.	Sidney, East	Madison	Richland	1980	9,300	37	1.40	274	5	75	2	—	1,440
213.	Singletree	Red River	Roosevelt	1978	12,000	46	2.00	28	10	40	4	—	320
214.	Sioux Pass	Madison	Richland	1982	—	—	—	—	—	—	—	—	160
215.	Sioux Pass	Siluro-Ord	Richland	1973	12,700	47	1.70	40	9	35	12	—	2,560
216.	Sioux Pass Middle	Red River	Richland	1976	12,600	45	1.40	17	16	25	6	—	1,920
217.	Sioux Pass, North	Madison	Richland	1974	12,000	45	1.60	44	12	40	1	—	1,280
218.	Sioux Pass, North	Red River	Richland	1974	12,000	45	1.60	44	12	40	6	—	4,480
219.	Sioux Pass, South	Red River	Richland	1982	12,700	46	—	30	—	—	—	—	640
220.	Snyder	Tensleep	Big Horn	1952	4,600	21	1.00	25	17	35	18	—	120
221.	Soap Creek	Tensleep	Big Horn	1952	1,900	20	1.05	20	15	35	13	—	1,480
222.	Soap Creek, East	Tensleep	Big Horn	1977	3,400	17	1.02	15	15	35	7	—	120
223.	South Fork	Red River	Richland	1976	12,400	46	1.40	41	11	—	4	—	960
224.	Spring Lake	Bakken	Richland	1982	10,800	42	1.50	17	8	20	6	—	160
225.	Spring Lake	Red River	Richland	1963	11,700	51	2.00	9	12	30	42	—	640
226.	Spring Lake, South	Red River	Richland	1981	11,900	50	1.62	38	10	40	3	—	320
227.	Stampede	Red River	Richland	1980	11,800	45	1.31	40	8	40	3	—	640
228.	Stensvad	Tyler	Musselshell	1958	5,500	33	1.17	25	14	20	31	14	1,200
229.	Sumatra	Tyler	Rosebud	1949	4,500	32	1.16	30	19	35	26	7	5,520
230.	Sunnyhill	Red River	Sheridan	1978	12,000	45	1.38	25	17	50	1	—	640
231.	Target	Madison	Roosevelt	1981	10,500	32	—	50	11	55	—	—	1,760
232.	Three Buttes	Gunton, Red River	Richland	1978	12,400	43	—	12	—	—	—	—	960
233.	Tippy Butte	Tyler	Musselshell	1980	5,000	32	—	38	—	—	—	—	40
234.	Tule Creek	Nisku	Roosevelt	1960	7,500	46	1.41	25	15	30	43	—	1,280
235.	Tule Creek, East	Nisku	Roosevelt	1964	7,500	43	1.91	30	18	30	41	—	320
236.	Tule Creek, South	Nisku	Roosevelt	1964	7,600	43	1.40	8	12	30	39	—	480
237.	Two Waters	Red River	Richland	1980	11,500	43	1.40	16	8	30	3	—	640
238.	Utopia	Swift	Liberty	1977	2,300	33	1.15	17	16	40	7	—	1,000
239.	Vaux	Interlake	Richland	1981	12,100	45	—	—	—	25	—	—	640
240.	Vaux	Mission Canyon	Richland	1977	8,800	34	1.20	40	4	43	6	—	1,920

SUMMARY OF PRODUCING OIL FIELDS—1983

LINE NO.	POROSITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1983 PRODUCTION		CUMMULATIVE PRODUCTION 1-1-84 (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			
3	8	30	23	—	480	3,351	6,981	780	—	780	1,625	90	15,476	42	631	149	161.
3	8	30	21	—	480	3,351	6,981	700	—	700	1,458	81	5,598	15	676	24	162.
3	8	30	21	—	480	2,979	6,206	630	—	630	1,313	82	12,460	34	597	33	163.
3	12	45	16	—	320	1,966	6,143	310	—	310	969	54	44,579	122	202	108	164.
3	16	20	7	—	480	16,165	33,677	1,060	—	1,060	2,208	57	186,539	511	585	475	165.
3	6	26	10	—	320	1,611	5,034	160	—	160	500	26	19,002	52	107	53	166.
3	3	30	58	9	23,420	131,810	5,628	76,600	25,600	102,200	4,364	115	3,065,812	8,399	55,906	46,294	167.
2	12	30	22	23	15,520	276,621	17,823	61,690	54,000	115,690	7,454	233	1,855,132	5,083	97,503	18,187	168.
2	15	37	1	—	320	3,441	10,753	30	—	30	94	4	6,449	18	17	13	169.
5	16	31	17	—	13,880	148,600	10,706	25,620	—	25,620	1,846	123	440,768	1,208	22,937	2,683	170.
5	11	30	19	—	18,070	245,327	13,576	46,300	—	46,300	2,562	102	235,192	644	43,689	2,611	171.
8	11	50	26	—	480	1,490	3,104	380	—	380	792	99	5,534	15	257	123	172.
2	8	50	28	—	320	851	2,659	240	—	240	750	63	3,174	9	226	14	173.
6	10	45	11	—	3,520	21,847	6,206	2,350	—	2,350	668	42	163,492	448	1,699	651	174.
5	11	30	8	—	160	2,172	13,575	170	—	170	1,063	43	2,555	7	161	9	175.
5	12	35	7	—	320	968	3,024	70	—	70	219	44	4,019	11	68	2	176.
—	—	—	—	—	200	—	—	—	—	—	—	—	15,551	43	132	194	177.
2	6	35	2	—	800	15,682	19,602	340	—	340	425	5	46,988	129	159	181	178.
6	9	30	15	—	4,160	18,589	4,468	2,880	—	2,880	692	43	173,869	476	2,385	495	179.
2	18	16	13	—	800	9,792	12,240	1,240	—	1,240	1,550	129	78,941	216	666	574	180.
8	14	45	3	—	320	2,433	7,603	70	—	70	219	8	27,980	77	61	9	181.
5	12	60	40	—	240	2,031	8,462	810	—	810	3,375	135	158,793	435	618	192	182.
0	10	—	10	—	1,760	12,527	7,117	1,280	—	1,280	727	73	45,301	124	1,190	90	183.
2	9	—	9	—	640	7,022	10,971	620	—	620	969	44	17,372	48	591	29	184.
3	12	10	4	—	960	18,693	19,471	830	—	830	865	26	35,550	97	710	120	185.
0	5	27	37	—	960	9,294	9,681	3,400	—	3,400	3,542	89	86,196	236	927	2,473	186.
—	—	—	—	—	320	—	—	—	—	—	—	—	34,337	94	43	140	187.
1	12	30	44	14	2,600	16,943	6,516	7,490	2,300	9,790	3,765	342	245,022	671	7,555	2,235	188.
—	—	—	—	—	5,120	—	—	—	—	—	—	—	177,760	487	608	624	189.
—	—	—	—	—	960	—	—	—	—	—	—	—	51,872	142	246	297	190.
20	17	29	—	—	320	—	—	—	—	—	—	—	40,663	111	156	48	191.
20	19	30	24	2	1,410	26,942	19,107	6,410	300	6,710	4,759	238	81,880	224	5,537	1,173	192.
0	18	15	28	—	160	1,357	8,481	380	—	380	2,375	238	2,606	7	372	8	193.
3	5	—	86	—	320	220	687	190	—	190	594	198	13,784	38	91	99	194.
25	10	30	26	—	160	2,130	13,312	560	—	560	3,500	140	9,179	25	503	57	195.
8	6	30	21	—	1,600	7,219	4,511	1,540	—	1,540	963	54	25,952	71	1,490	50	196.
25	8	30	15	—	1,440	13,033	9,050	1,970	—	1,970	1,368	55	6,819	19	1,960	10	197.
54	3	50	8	—	4,640	24,710	5,325	2,080	—	2,080	448	8	285,830	783	976	1,104	198.
15	—	—	—	—	1,920	—	—	—	—	—	—	—	240,187	658	1,010	1,048	199.
14	14	45	8	—	800	5,147	6,433	410	—	410	513	37	42,182	116	273	137	200.
12	12	30	7	—	320	1,762	5,506	130	—	130	406	34	32,330	89	84	46	201.
19	14	47	10	—	640	3,889	6,076	380	—	380	594	31	71,001	195	237	143	202.
32	14	48	15	—	200	2,915	14,575	450	—	450	2,250	70	12,934	35	395	55	203.
46	5	32	12	—	320	2,012	6,287	240	—	240	750	16	45,270	124	135	105	204.
14	10	33	29	—	320	1,437	4,490	420	—	420	1,313	94	11,408	31	418	2	205.
23	11	35	10	—	480	4,083	8,506	390	—	390	813	35	12,085	33	345	45	206.
—	—	—	—	—	1,040	—	—	—	—	—	—	—	20,207	55	2,284	20	207.
30	7	40	11	—	1,600	10,427	6,516	1,180	—	1,180	738	25	44,366	122	976	204	208.
—	—	—	—	—	320	—	—	—	—	—	—	—	10,833	30	102	26	209.
60	4	50	5	—	7,040	50,415	7,161	2,460	—	2,460	349	6	164,738	451	2,106	354	210.
30	11	45	7	—	640	5,301	8,282	350	—	350	547	18	49,456	135	100	250	211.
74	5	75	2	—	1,440	27,330	18,979	470	—	470	326	1	65,477	179	327	143	212.
28	10	40	4	—	320	2,085	6,515	90	—	90	281	10	11,963	33	82	8	213.
—	—	—	—	—	160	—	—	—	—	—	—	—	8,533	23	23	14	214.
40	9	35	12	—	2,560	27,337	10,678	3,380	—	3,380	1,320	33	135,505	371	2,547	833	215.
17	16	25	6	—	1,920	21,705	11,304	1,350	—	1,350	703	41	105,315	289	964	386	216.
44	12	40	1	—	1,280	19,662	15,360	270	—	270	211	5	42,793	117	204	66	217.
30	12	40	6	—	4,480	68,817	15,360	4,080	—	4,080	911	21	295,788	810	2,121	1,959	218.
—	—	—	—	—	640	—	—	—	—	—	—	—	48,343	132	80	461	219.
25	17	35	18	—	120	2,572	21,433	460	—	460	3,833	153	4,700	13	441	19	220.
20	15	35	13	—	1,480	21,323	14,407	2,840	—	2,840	1,919	96	62,528	171	2,298	542	221.
15	15	35	7	—	120	1,335	11,125	90	—	90	750	50	7,860	22	75	15	222.
41	11	—	4	—	960	23,992	24,991	900	—	900	938	23	58,216	159	700	200	223.
17	8	20	6	—	160	900	5,625	50	—	50	313	18	10,610	29	24	26	224.
9	12	30	42	—	640	1,877	2,932	790	—	790	1,234	137	10,884	30	749	41	225.
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STATE OF MONTANA SUMMARY OF

LINE NO.	FIELD	PRODUCING FORMATION	COUNTY	YEAR OF DISCOVERY	DEPTH	GRAVITY °API	F.V.F.	NET PAY FT.	POROSITY (%)	% WATER	RECOVERY FACTOR %		
											PRIMARY	SECONDARY	
241.	Vaux	Red River	Richland	1976	12,400	48	1.60	24	14	45	9	—	2
242.	Vida	Interlake	McCone	—	—	—	—	—	—	—	—	—	
243.	Volt	Charles	Roosevelt	1965	6,000	—	—	—	—	67	—	—	
244.	Volt	Nisku	Roosevelt	1964	7,300	47	1.40	14	20	30	36	—	
245.	Wagon Box	Tyler	Musselshell	1974	2,941	28	—	—	—	1	—	—	
246.	Wagon Trail	Red River	Richland	—	—	—	—	—	—	—	—	—	
247.	Weed Creek	Amsden	Yellowstone	1966	6,200	35	1.07	12	8	23	14	—	
248.	Weidon	Kibby	McCone	1964	5,900	39	1.01	14	16	35	41	—	1
249.	West Butte	Sunburst	Toole	1968	2,300	40	1.10	10	24	23	9	—	
250.	Whitlash	Sunburst	Liberty	1927	2,600	38	1.13	15	16	20	12	—	3
251.	Whitlash, West	Sunburst	Toole	1980	2,906	—	—	—	—	—	—	—	
252.	Willow Ridge	Burwash	Toole	1975	1,400	45	—	—	—	—	—	—	
253.	Wills Creek, South	Red River	Fallon	1964	8,700	33	1.20	12	18	35	20	—	
254.	Winnett Junction	Tyler	Musselshell	1973	2,500	28	1.10	12	18	30	9	26	
255.	Wolf Springs	Amsden	Yellowstone	1955	6,200	30	1.07	11	6	23	61	—	2
256.	Woodrow	Siluro-Ord	Dawson	1952	9,600	42	1.30	25	14	35	15	—	
257.	Wrangler	Red River	Sheridan	1979	11,200	30	1.00	6	10	—	12	—	
258.	Wrangler, North	Red River	Sheridan	1979	10,000	41	1.40	18	16	45	5	—	
259.	Wright Creek	Muddy	Powder River	1969	4,800	35	1.10	5	26	48	13	—	
260.	Yates	Duperow	Wibaux	1981	10,100	—	—	—	—	—	—	—	

Miscellaneous Small Fields

Total

SUMMARY OF PRODUCING OIL FIELDS—1983

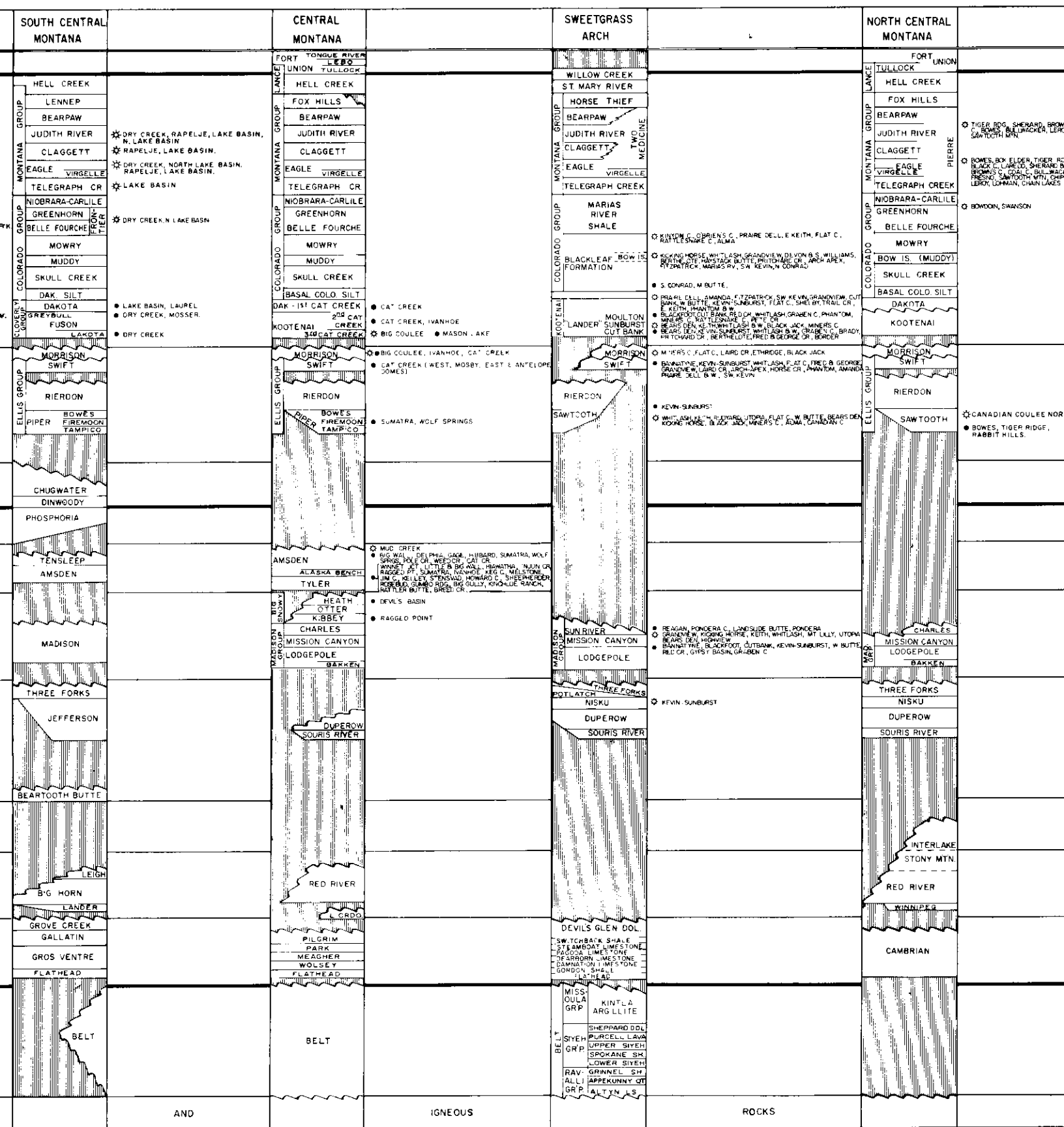
PORO- SITY (%)	% WATER	RECOVERY FACTOR %		PRODUCTIVE AREA ACRES	OOIP		ULTIMATE RECOVERY					1983 PRODUCTION		CUMMULATIVE PRODUCTION 1-1-84 (M BBLS)	RESERVES (M BBLS)	LINE NO.
		PRIMARY	SECONDARY		(M BBLS)	BBLS/ACRE	PRIMARY (M BBLS)	SECONDARY (M BBLS)	TOTAL (M BBLS)	BBLS./ ACRE	BBLS./ ACRE FT.	BBLS	BOPD			
14	45	9	—	2,240	20,071	8,960	1,890	—	1,890	844	35	143,680	394	1,116	774	241.
—	—	—	—	320	—	—	—	—	—	—	—	4,252	12	263	9	242.
—	67	—	—	40	—	—	—	—	—	—	—	3,092	8	6	17	243.
20	30	36	—	800	8,689	10,861	3,090	—	3,090	3,863	276	70,457	193	2,568	522	244.
—	1	—	—	80	—	—	—	—	—	—	—	3,614	10	26	20	245.
—	—	—	—	320	—	—	—	—	—	—	—	12,394	34	36	30	246.
8	23	14	—	800	4,288	5,360	600	—	600	750	63	5,097	14	594	6	247.
16	35	41	—	1,560	17,447	11,183	7,070	—	7,070	4,532	324	10,446	29	7,034	36	248.
24	23	9	—	240	3,128	13,033	270	—	270	1,125	113	9,075	25	263	7	249.
16	20	12	—	3,280	43,236	13,181	5,110	—	5,110	1,558	104	104,855	287	4,859	251	250.
—	—	—	—	200	—	—	—	—	—	—	—	6,086	17	83	8	251.
—	—	—	—	160	—	—	—	—	—	—	—	3,213	9	31	8	252.
18	35	20	—	640	5,809	9,076	1,180	—	1,180	1,844	154	28,363	78	955	225	253.
18	30	9	26	240	2,559	10,662	240	670	910	3,792	316	44,607	122	670	240	254.
6	23	61	—	2,080	7,664	3,684	4,640	—	4,640	2,231	203	12,715	35	4,607	33	255.
14	35	15	—	560	7,603	13,576	1,110	—	1,110	1,982	79	14,835	41	1,077	33	256.
10	—	12	—	640	2,979	4,654	370	—	370	578	96	36,282	99	210	160	257.
16	45	5	—	320	2,809	8,778	150	—	150	469	26	12,781	35	68	82	258.
26	48	13	—	400	1,907	4,767	250	—	250	625	125	6,417	18	238	12	259.
—	—	—	—	160	—	—	—	—	—	—	—	5,676	16	25	14	260.

1,558	4	68
29,665,289	81,274	209,807

ERA	PERIOD	SOUTHWESTERN MONTANA	CRAZY MOUNTAIN BASIN	BIG HORN BASIN		SOUTH CENTRAL MONTANA		CENTRAL MONTANA	
CENOZOIC	TERTIARY	BEAVERHEAD	TONGUE RIVER	FORT UNION				FORT UNION	
MESOZOIC	CRETACEOUS	UPPER	TULLOCK	LANCE				TULLOCK	
			HELL CR					HELL CREEK	
			LENNEP	MEETEETSE				FOX HILLS	
			BEARPAW					BEARPAW	
			JUDITH RIVER	MESA VERDE			* DRY CREEK, RAPELJE, LAKE BASIN, N. LAKE BASIN	JUDITH RIVER	
			CLAGGETT				* RAPELJE, LAKE BASIN.	CLAGGETT	
			EAGLE VIRGELLE	CODY SHALE			* DRY CREEK, NORTH LAKE BASIN, RAPELJE, LAKE BASIN.	EAGLE	
			TELEGRAPH CR				* LAKE BASIN	TELEGRAPH	
			NIOBRARA-CARLILE	FRONTIER			* DRY CREEK, N. LAKE BASIN	NIOBRARA-CARLILE	
			FRONTIER					FRONTIER	
MESOZOIC	CRETACEOUS	LOWER	MONTANA						
			COLORADO						
			GROUPS						
			KOOTENAI						
			MOWRY						MOWRY
			MUDDY						MUDDY
			SKULL CR	SKULL CREEK					SKULL CREEK
			DAK. SILT	DAK. SILT					BASAL COLO S
			DAKOTA	DAKOTA	• NORTH CLARKS FORK, ELK BASIN	DAKOTA	• LAKE BASIN, LAUREL	DAKOTA	
			GREYBULL	GREYBULL	• BELFRY, MACKAY, DEAN, CLARKS FORK W.	GREYBULL	• DRY CREEK, MOSSER	GREYBULL	
MESOZOIC	JURASSIC	UPPER	MORRISON	MORRISON				MORRISON	
			SWIFT	SWIFT				SWIFT	
			RIERDON	RIERDON				RIERDON	
			SAWTOOTH	PIPER				PIPER	
				UPPER SUNDANCE					
				LOWER SUNDANCE					
				GYPSUM SPRING					
MESOZOIC	JURASSIC	MIDDLE							
MESOZOIC	JURASSIC	LOWER ?	THAYNES	CHUGWATER				CHUGWATER	
			WOODSIDE	DINWOODY				DINWOODY	
			DINWOODY	PHOSPHORIA				PHOSPHORIA	
			PHOSPHORIA						
PALEOZOIC	PERMIAN		QUADRANT	TENSLEEP	• ELK BASIN, NW ELK BASIN.	TENSLEEP		TENSLEEP	
			AMSDEN	AMSDEN	• ELK BASIN, FRANNIE, NW ELK BASIN, SNYDER.	AMSDEN		AMSDEN	
					• ELK BASIN				
PALEOZOIC	PENNSYLVANIAN								
PALEOZOIC	MISSISSIPPIAN								
PALEOZOIC	DEVONIAN	UPPER							
PALEOZOIC	DEVONIAN	MIDDLE							
PALEOZOIC	DEVONIAN	LOWER							
PALEOZOIC	SILURIAN								
PALEOZOIC	ORDOVICIAN								
PALEOZOIC	CAMBRIAN	UPPER							
PALEOZOIC	CAMBRIAN	MIDDLE							
PALEOZOIC	CAMBRIAN	LOWER							
PROTEROZOIC	PRE-CAMBRIAN								
PROTEROZOIC	PRE-CAMBRIAN								
PROTEROZOIC	PRE-CAMBRIAN								
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PROTEROZOIC	PRE-CAMBRIAN								
PROTEROZOIC	PRE-CAMBRIAN								

SHOWING PRODUCTIVE FORMATIONS IN MONTANA OIL AND GAS FIELDS *

● Oil ● GAS



FIELDS *

*SOME FIELDS SHOWN ARE DEPLETED OR NO LONGER PRODUCTIVE