WYOMING STATE GEOLOGICAL SURVEY
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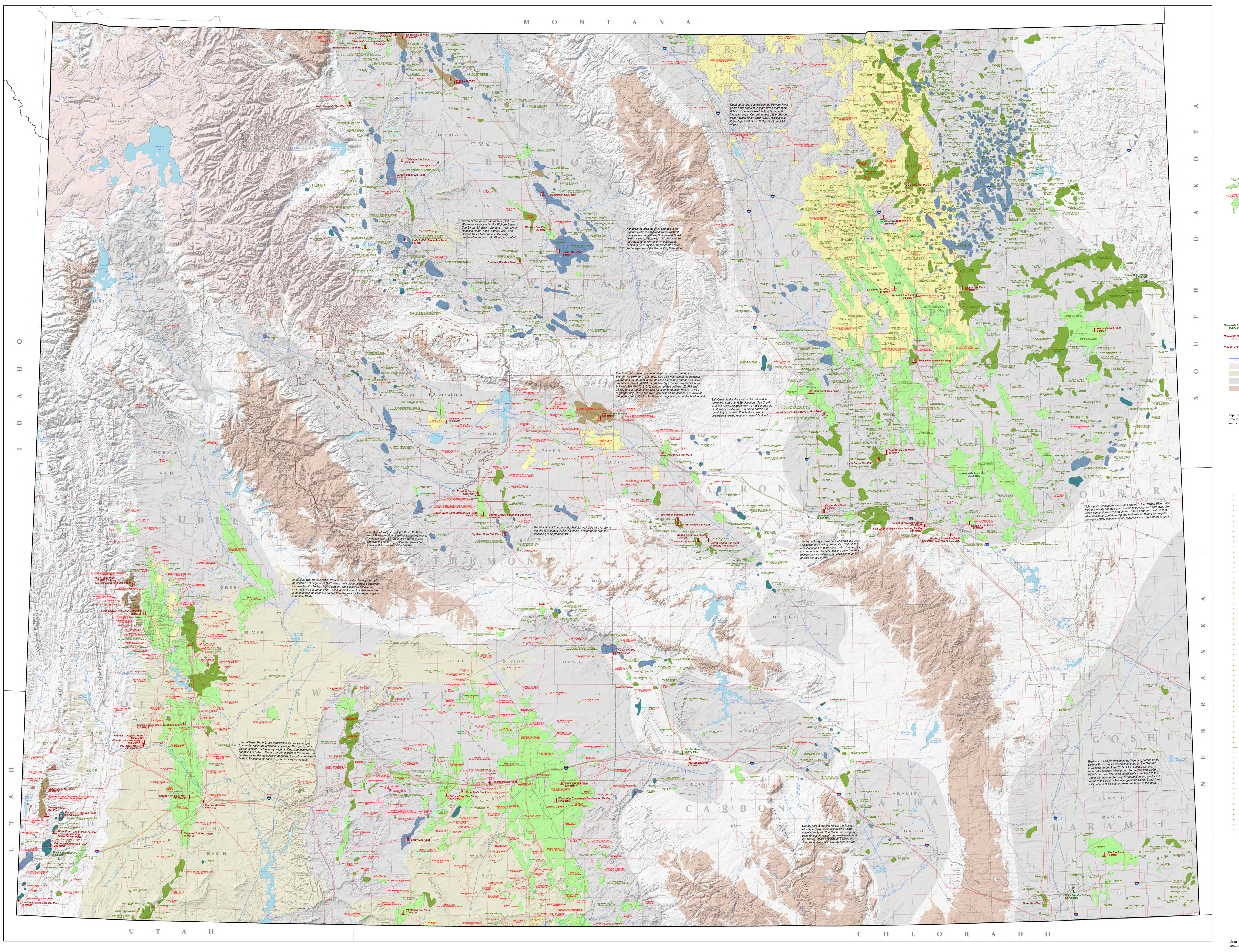
Geology - Interpreting the past - providing for the future

MAP SERIES 103
Oil and Gas Map of Wyoming



Map Projection: Wyoming Lambert Conformal Conic
False Easting: 500000, False Northing: 200000
Central Meridian: -107.5 degrees West
Standard Parallel 1: 41 degrees North
Standard Parallel 2: 45 degrees North
Latitude of Origin: 41 degrees North
Linear Unit: Meter
Horizontal Datum: North American Datum of 1983 (NAD 83)
Ellipsoid: Geodetic Reference System 80

Base hillshade derived from USDA/NRCS–National Cartography & Geospatial Center 30-meter Digital Elevation Model (DEM), 2011: azimuth 315°, sun angle 45°, vertical exaggeration 1.2

Magnetic Declination 10° 0' 36" E at center of map (July 14, 2016)

Scale 1:500,000
1 inch equals approximately 8 miles (13 kilometers)
1 centimeter equals approximately 5 kilometers (3 miles)

Digital cartography by Phyllis A. Ranz
Map edited by Suzanne C. Luhr

OIL AND GAS MAP OF WYOMING

by

Rachel N. Toner, Ranie M. Lynds, and James E. Stafford

2016

An online version of this map is available at the Wyoming State Geological Survey, http://www.wsgs.wyo.gov

EXPLANATION

PREDOMINANT AGE OF RESERVOIR ROCKS

- Paleogene (Tertiary)
- Upper Cretaceous
- Lower Cretaceous
- Jurassic–Triassic
- Permian–Pennsylvanian
- Mississippian
- Ordovician

FIELDS

New fields are spotted through March 30, 2016. Field boundaries are approximate.

TODD (EOR) Kcltr — Names in green denote fields that primarily produce oil. These fields may produce significant associated natural gas along with oil in the primary reservoir or nonassociated natural gas from secondary reservoirs.

JONAH (WD) Tfu Kl Kmv Krs Kbl Kh Kf — Names in red denote fields that primarily produce natural gas. These fields may produce significant condensate along with natural gas in the primary reservoir or oil from secondary reservoirs.

FIELD DESIGNATIONS

(A)	Abandoned field *(no production for last 10 years)*
(CM)	Coalbed natural gas
(CO2)	Carbon dioxide
(EOR)	Enhanced oil recovery
(GD)	Gas disposal
(GS)	Gas storage
(HE)	Helium
(HO)	Heavy oil *(less than 20°API gravity)*
(HS)	Hydrogen sulfide
(OD)	Other disposal *(Class I and V disposal)*
(SI)	Shut-in field *(last production within 3–9 years)*
(WD)	Produced water disposal

Note: These designations appear after the oil or gas field name

SYMBOLOGY AND GEOLOGY

- Newcastle Refinery 14,500 BBL — Oil refinery. Notation includes capacity in barrels of oil per stream day (BBL)
- Newcastle Gas Plant 3 MMCF — Active natural gas processing plant. Notation includes capacity in millions of cubic feet (MMCF) or millions of British thermal units (MMBTU) per day
- Kitty Gas Plant — Inactive natural gas processing plant
- Approximate location of major basin axis
- Volcanic rocks in Yellowstone National Park area and Absaroka Range
- Oil shale occurrence
- Major sedimentary basin; approximate extent of Paleocene and younger rocks
- Undifferentiated Precambrian rocks exposed at the surface

PIPELINES

Pipeline routes are plotted as accurately as possible and are only accurate within the scale of this map or maps of smaller scale. Most infield gathering systems are not shown. Pipeline operator and diameters available on the WSGS online map.

- Carbon dioxide
- Condensate
- Natural gas liquid
- Product
- Crude
- Natural gas

For more information go to Wyoming Pipeline Authority, https://www.wyopipeline.com

KEY TO NUMBERED OIL AND GAS FIELDS IN THE POWDER RIVER BASIN

1	ADON ROAD (EOR)	PPml	68	ENYARD DRAW (A)	PPml	136	MAPES (WD)	PPml	203	RULE (EOR)	PPml
2	ADON ROAD NORTH	Kmd PPml	69	FALCON RIDGE (EOR)	PPml	137	MARNIE (WD)	PPml	204	SAND ROCK (A)	PPml
3	AG FARM	PPml	70	FD	PPml	138	MARNIE SOUTH (OD)	PPml	205	SCHOONER CANYON (A)	Kf
4	ALLISON	PPml	71	FENTON	Kcltr Kmd	139	MARY'S RESERVOIR (A)	PPml	206	SCRIBNER	PPml
5	ALLISON SOUTH (A)	PPml	72	FISH	PPml	140	MAY (A)	PPml	207	SE DOUD (SI)	PPml
6	ALPHA (EOR)	PPml	73	FISHING LAKE	PPml	141	MAYSDORF	Tfu Tfu coal Kmr Kmd PPml	208	SEMLEK (EOR)(WD)	PPml
7	AMERICAN (EOR)	PPml	74	GAP (SI)	PPml	142	MAYSDORF SOUTH (A)	Tfu Tfu coal PPml	209	SEMLEK SOUTHWEST	Kmd PPml
8	AM-KIRK (EOR)	Kmr Kmd Kd PPml	75	GARNER LAKE	PPml	143	MCCREERY	PPml	210	SEMLEK WEST (EOR)(WD)	Kmd Kla PPml
9	AMMO (WD)	Kmd PPml	76	GARNER LAKE NORTH	PPml	144	M-D (WD)	PPml	211	SHARP (EOR)	PPml
10	AMMO SOUTH (A)	PPml	77	GAS DRAW EAST (WD)	Kmd	145	M-D NORTH (A)	PPml	212	SHEARING PEN DRAW (A)	Kmd
11	ARROW (A)	PPml	78	GIBBS (WD)	PPml	146	MELLOTT RANCH (WD)	Kmd PPml	213	SHORT PRONG WEST	PPml
12	ASH (EOR)	PPml	79	GIBBS NORTH (A)	PPml	147	MILLER CREEK (WD)	Kcltr Kd PPml	214	SIMPSON NORTH	PPml
13	BAR U DRAW (A)	PPml	80	GIBBS SOUTH (WD)	PPml	148	MILLER CREEK EAST (A)	Kd	215	SIMPSON RANCH (EOR)	PPml
14	BARBER CREEK EAST (A)	Kmd	81	GLASSER DRAW	Kcltr Kmd	149	MILLER CREEK ROAD	PPml	216	SLATTERY (WD)	Kmd Knc PPml
15	BASIN NORTHWEST	Kd PPml	82	GLO (EOR)	PPml	150	MILL-GILLETTE (WD)	Kmd Ksc PPml	217	SODA WELL (WD)	PPml
16	BAUMFALK (A)	PPml	83	GLO NORTH (EOR)	PPml	151	MINTURN (A)	PPml	218	SPAAR CREEK	PPml
17	BIG MAC (EOR)	PPml	84	GOLD MINE DRAW	Kmd PPml	152	MISSOURI	PPml	219	SPIRIT (EOR)	PPml
18	BIGFOOT	PPml	85	GRASSHOPPER BUTTE	Kmd PPml	153	MITCHELL BREAKS	PPml	220	SPRING HOLE	PPml
19	BISHOP RANCH (EOR)	PPml	86	GRASSLAND (A)	PPml	154	MITCHELL CREEK (SI)	PPml	221	SPRINGEN RANCH (OD)	Kmd PPml
20	BISHOP RANCH EAST (A)	PPml	87	GRASSLAND WEST	PPml	155	MONGOOSE (SI)	Kf	222	SQUAW CREEK (A)	Kmd Ksc
21	BISHOP RANCH SOUTH (EOR)(WD)	PPml	88	GRAY (A)	PPml	156	MOORCROFT EAST	Kmd	223	STEWART (EOR)	Kmd PPml
22	BLACK ROCK DRAW	Kmvp	89	GRAY SOUTH (WD)	PPml	157	MOORCROFT WEST (EOR)	Kmd Knc Kd PPml	224	STEWART EAST (EOR)	PPml
23	BLUEBIRD (A)	Tfu coal Kmvp Kmd	90	GUTHREY	PPml	158	MOORE RANCH (A)	Pt	225	STRAAG DRAW (EOR)	PPml
24	BOOTON	PPml	91	HAIGHT	Kcltr PPml	159	MOSEBAR (A)	Kmd Ksc	226	SUMMERFIELD (EOR)	PPml
25	BRACKEN (EOR)	Kmd PPml	92	HAL	PPml	160	MOSEBAR DRAW	PPml	227	SUPERHORNET (EOR)(SI)(WD)	PPml
26	BREAKS (WD)	PPml	93	HALVERSON	Kd PPml	161	MULE HERDER	PPml	228	SURPRISE (A)	Pm
27	BRENNAN	PPml	94	HALVERSON NORTH	PPml	162	NAPIER ROAD	Kmvp	229	T.A. BUTTES (EOR)	PPml
28	BRONCO	PPml	95	HAMM (EOR)	PPml	163	NETA	PPml	230	TANNER (EOR)	PPml
29	BUCK DRAW (A)(EOR)	Kmvp Kf	96	HANAWAY DRAW	PPml	164	NINEMILE	Kf	231	TERRACE (WD)	PPml
30	BUCK DRAW EAST	Kcltr	97, 98	HARTZOG DRAW (EOR)(WD)	Tfu Kcsh Kmd	165	O'CONNOR	Kmd	232	TEXAS TRAIL (WD)	PPml
31	BUCK DRAW NORTH (EOR)(WD)	Kmvp Kd	99	HARTZOG DRAW EAST (A)	Kmd	166	OK (EOR)	Kmd PPml	233	THOLSON (EOR)(WD)	PPml
32	BULL GULCH (A)	Kd	100	HEATH (EOR)(WD)	Kmd PPml	167	OLSEN (WD)	PPml	234	TIMBER CREEK (EOR)(WD)	Kmd Knc PPml
33	BULLMARCH (A)	PPml	101	HELDT DRAW	Kcsh	168	OSHOTO (WD)	PPml	235	TIMBER CREEK NORTH (EOR)	PPml
34	BUTLER RANCH (A)	Knc	102	HELLS DRAW (A)	Kmd PPml	169	OTTIE DRAW (EOR)	PPml	236	TIMBER CREEK NORTH SHALLOW	Kmd
35	BUTTE (WD)	Kmvp Kcltr	103	HIGH ROAD (WD)	PPml	170	OXBOW	PPml	237	TIMBER CREEK NORTHWEST	PPml
36	BUTTE CREEK (A)(WD)	PPml	104	HOE CREEK (A)	Kmvp	171	PAUL	Kmd	238	TOLAND (A)	PPml
37	CABIN CANYON (A)	PPml	105	HOOVER GULCH (WD)	PPml	172	PEBBLE BEACH (SI)	PPml	239	TRIANGLE U (EOR)(OD)	Kcsx
38	CABIN CREEK (A)	Knc	106	INDIAN TREE	Kmd PPml	173	PICKREL RANCH (A)	PPml	240	T-T ROAD (A)	PPml
39	CAMBRIDGE (EOR)(WD)	PPml	107	INFINITY (A)	PPml	174	PIERCE (WD)	PPml	241	TUIT DRAW	Tfu coal Kmvp Kn Kcltr Kmd
40	CANCUN (WD)	Kmd	108	JACKELOPE (A)	PPml	175	PINEY	PPml	242	TWENTY-ONE MILE BUTTE	Kmvp
41	CANDY DRAW (EOR)	PPml	109	JB	Kmd PPml	176	PLEASANT VALLEY	PPml	243	TWIN CREEK (A)	PPml
42	CARDINAL (WD)	PPml	110	K-BAR (WD)	Kmvp Kcsx Kn Kcltr Kmr Kmd Kd	177	POWNALL RANCH (EOR)	PPml	244	VI BAR RANCH	Kmd
43	C-H (A)(EOR)(OD)	PPml	111	KICKEN DRAW	PPml	178	PRAIRIE CREEK (WD)	Kmd Knc	245	WAGON SPOKE (EOR)	PPml
44	CLABAUGH	Kmd PPml	112	KIEHL WEST (EOR)(WD)	PPml	179	PRAIRIE CREEK SOUTH	PPml	246	WAKEMAN FLATS	Kcltr Kfwc
45	CLEARWATER	PPml	113, 114	KINGSBURY CREEK	Tfu Kmd Ksc	180, 181	PRB COAL BED (CM)(OD)(WD)	Tw coal Tfu coal	247	WALLACE SOUTH	Kmd PPml
46	CLUBHOUSE (A)	Kmd	115	KINGSBURY ROAD (A)	Kmvp	182	PRONG CREEK WEST (EOR)	PPml	248	WARBONNET (A)	Kla
47	COAL CREEK (WD)	PPml	116	KUEHNE RANCH (EOR)	PPml	183	R.T. (A)	PPml	249	WARD CREEK (A)	Knc PPml
48	CORONA	Kcsh PPml	117	KUEHNE RANCH EAST	PPml	184	RAILROAD BEND	PPml	250	WARD CREEK SOUTHEAST (A)	Knc
49	COUNTY LINE	PPml	118	KUEHNE RANCH NORTHEAST (A)	PPml	185	RAINBOW RANCH	Pm PPml	251	WARDEN (A)	Kmd
50, 51	CRAWFORD DRAW	Kf Kmd	119	KUEHNE RANCH SOUTHEAST (EOR)	PPml	186	RAINBOW RANCH NORTH (EOR)	Kmd Knc PPml	252	WD (EOR)(WD)	PPml
52	DEAD HORSE CREEK SOUTH (WD)	Kmvp	120	KUMMERFELD (EOR)(WD)	Knc Kd PPml	187	RAWHIDE BUTTE (A)	Tfu	253	WELL CREEK (A)	PPml
53	DEADMAN CREEK (EOR)(GD)(WD)	PPml	121	LANEY (A)(WD)	PPml	188	RIDGEVIEW	PPml	254	WHEAT DRAW	PPml
54	DEEP DRAW	PPml	122	LEE DRAW (A)	PPml	189	RIGHT A WAY (EOR)	PPml	255	WHISLER	PPml
55	DEER FLY (EOR)(WD)	PPml	123	LEWIS (A)	PPml	190	ROBINSON RANCH	PPml	256	WILDFIRE (HO)(WD)	(PPml)
56	DEER FLY SOUTH	PPml	124	LILY (EOR)(WD)	PPml	191	ROBINSON RANCH SOUTH (WD)	Kla PPml	257	WINDMILL (HO)(WD)	Kmd (PPml)
57	DEMOTT DRAW	PPml	125	LITTLE MITCHELL CREEK	PPml	192	ROCKHOPPER (EOR)(WD)	PPml	258	WINTER DRAW (EOR)	PPml
58	DEMOTT DRAW WEST (A)	PPml	126	LITTLE MO	PPml	193	ROCKY BUTTE (A)	PPml	259	WOLF DRAW (EOR)	PPml
59	DILLINGER RANCH (EOR)	Kcltr PPml	127	LITTLE PINE (WD)	PPml	194	ROCKY HILL (SI)	Kn Kmd	260	WOLFF (WD)	PPml
60	DILLINGER RANCH NORTH	PPml	128	LITTLE POWDER (A)	Kmr Kmd PPml	195	ROEHRS SOUTH	PPml	261	WOOD WEST (A)	Kd
61	DITTO LAKE (SI)	PPml	129	LOBLOLLY (A)	Kmd	196	ROSS (009)(A)	Kd	262	WORTH (A)	PPml
62	DOE (SI)	PPml	130	LOGAN DRAW (SI)	Kcltr Kmd	197	ROURKE GAP	PPml	263	YELLOW HAMMER (A)	PPml
63	DOUBLE SHIELD (EOR)(WD)	PPml	131	LONE CEDAR (EOR)	PPml	198	ROYAL DRAW (A)	PPml	264	YELLOW HAMMER NW (A)	Kmd PPml
64	DUCK NEST CREEK (A)	Kmd	132	LONG TREE (EOR)	PPml	199	ROZET (EOR)(OD)(WD)	Kmd Knc Ksc PPml	265	YORK	PPml
65	DUTCH (WD)	Tfu coal PPml	133	LONG TREE NORTH (A)	PPml	200	ROZET EAST (EOR)	Kmd PPml	266	ZOE DRAW (SI)(WD)	PPml
66	DUTCH RESERVOIR (A)	PPml	134	MAC (A)(WD)	PPml	201	ROZET SOUTH (EOR)	PPml			
67	DUVALL RANCH	Knc PPml	135	MALMQUIST	PPml	202	ROZET WEST (EOR)	Kmd PPml			

BASE MAP EXPLANATION

Cities
- State capital
- City or town

Roads
- Interstate highway
- U.S. highway
- State highway
- County or other road
- Railroad

Boundaries
- State boundary
- County boundary
- Wind River Reservation boundary
- Township boundary
- National Park boundary
- Continental Divide

Water
- Perennial river
- Lake or reservoir

DISCLAIMERS

Users of this map are cautioned against using the data at scales different from those at which the map was compiled. Using these data at a larger scale will not provide greater accuracy and is a misuse of the data.

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RESERVOIR ABBREVIATIONS

Both previously and currently producing formations are shown for each field. On the map, formations from which heavy oil is produced are enclosed in parentheses, e.g., (Kf); formations from which significant hydrogen sulfide is produced are enclosed in brackets, e.g., [Mm].

Paleogene (Tertiary)
- Twr White River Formation
- Tw Wasatch Formation
  - Ta Almy Formation[1]
  - Tw coal Wasatch coals
- Tgr Green River Formation
- Twdr Wind River Formation
- Tfu Fort Union Formation
  - Tfu coal Fort Union coals

Upper Cretaceous
- Kl Lance Formation
- Kfh Fox Hills Sandstone
- Kle Lewis Shale
- Kbp Bearpaw Shale
- Kme Meeteetse Formation
- Kmv Mesaverde Formation (or Group)
  - Kmvt Teapot Sandstone Member
  - Kmvp Parkman Sandstone Member
  - Kal Almond Formation
  - Ke Ericson Sandstone
  - Kpr Pine Ridge Sandstone
  - Krs Rock Springs Formation
  - Khm Haystack Mountains Formation
  - Kbl Blair Formation
- Kc Cody Shale
  - Kcsx Sussex Sandstone Member
  - Kcsh Shannon Sandstone Member
- Ks Steele Shale
- Kad Adaville Formation
- Kba Baxter Shale
- Kh Hilliard Shale
- Kn Niobrara Formation
- Kcl Carlile Formation
  - Kclcd Codell Sandstone Member
  - Kcltr Turner Sandstone Member
- Kg Greenhorn Formation
- Kbf Belle Fourche Shale
- Kf Frontier Formation
  - Kfwc Wall Creek Sandstone Member
  - Kft Torchlight Sandstone Member
  - Kfp Peay Sandstone Member
- Ka Aspen Shale
- Kmr Mowry Shale
- Kq Quealy Formation

Lower Cretaceous
- Kmd Muddy Sandstone
- Knc Newcastle Sandstone
- Kbr Bear River Formation
- Ksc Skull Creek Shale
- Kcv Cloverly Formation
- Kd Dakota Sandstone[1]
  - Kj J Sandstone
  - Kfr Fall River Formation
  - Kla Lakota Formation

Cretaceous–Jurassic
- KJg Gannett Group

Jurassic
- Jm Morrison Formation
  - Jstc Curtis Member[1] (of Stump Formation)
- Js Sundance Formation
- Js Entrada Sandstone[1]
- Jtc Twin Creek Limestone

Jurassic–Triassic
- JTRn Nugget Sandstone

Triassic
- TRa Ankareh Formation
- TRc Chugwater Formation (or Group)
  - TRcm Crow Mountain Sandstone (or Member)
  - TRca Alcova Limestone (or Member)
  - TRcr Red Peak Formation (or Member)
- TRt Thaynes Limestone
- TRw Woodside Shale
- TRd Dinwoody Formation

Triassic–Permian
- TRPs Spearfish Formation

Permian
- Pp Phosphoria Formation
- Pm Minnekahta Limestone

Permian–Pennsylvanian
- PPh Hartville Formation
- PPml Minnelusa Formation

Pennsylvanian
- Pt Tensleep Sandstone
- Pw Weber Sandstone
- Pm Morgan Formation

Pennsylvanian–Mississippian
- PMa Amsden Formation

Mississippian
- Md Darwin Sandstone
- Mm Madison Limestone

Devonian
- Dj Jefferson Formation

Ordovician
- Obh Bighorn Dolomite

Cambrian
- Cgv Gros Ventre Formation
- Cf Flathead Sandstone

Precambrian
- pC Archean and Proterozoic rocks, undivided

[1] Formation name extended from neighboring states; not formally recognized in Wyoming, or not commonly used in Wyoming

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