

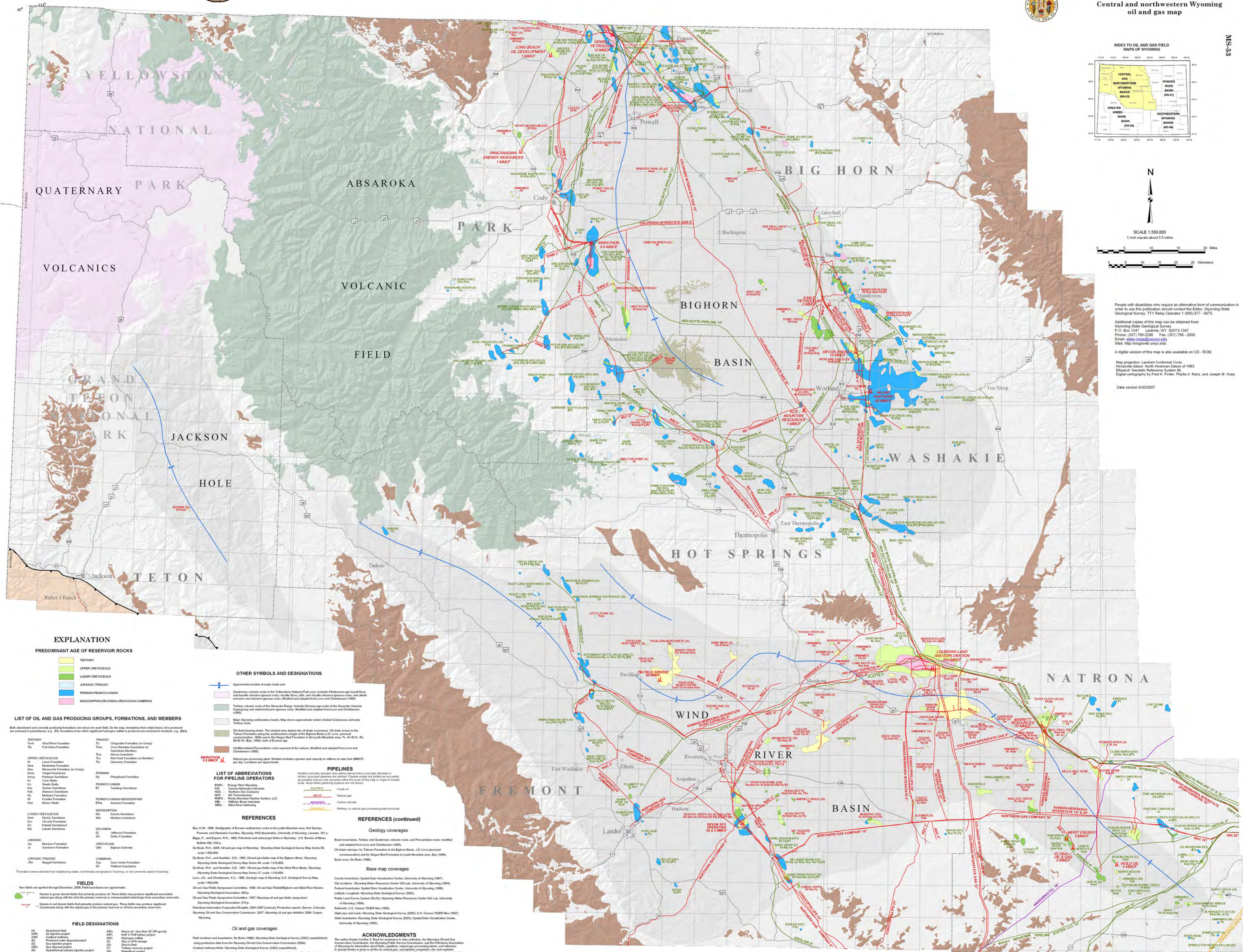
People with disabilities who require an alternative form of communication in order to use this publication should contact the Editor, Wyoming State Geological Survey, TTY Relay Operator 1 (800) 877-5975.

Additional copies of this map can be obtained from:
Wyoming State Geological Survey
P.O. Box 1347 Laramie, WY 82073-1347
Phone: (307) 766-2286 Fax: (307) 766-2005
Email: web@wsgs.wyo.gov
Web: <http://wsgs.wyo.gov>

A digital version of this map is also available on CD-ROM.

Map projection: Lambert Conformal Conic
Horizontal datum: North American Datum of 1983
Ellipsoid: Geoidetic Reference System 80
Digital cartography by Fred H. Potter, Phyllis A. Ranz, and Joseph M. Hux.

Data version 9/30/2007



EXPLANATION

PREDOMINANT AGE OF RESERVOIR ROCKS

- Tertiary
- Upper Cretaceous
- Lower Cretaceous
- Jurassic-TRASSIC
- Permian-Pennsylvanian
- Mississippian-Devonian-Orographic-Cambrian

OTHER SYMBOLS AND DESIGNATIONS

- Approximate location of major basin axis
- Quaternary volcanic rocks in the Yellowstone National Park area, including Pleistocene-age basalt flows and basaltic igneous rocks, andesite flows, tuffs, and rhyolite igneous rocks and ashfall tuffs and extensive igneous rocks. Modified and adapted from Love and Chubbuck (1985)
- Tertiary volcanic rocks of the Absaroka Range, including Eocene age rocks of the Absaroka Volcanic Supergroup and related extensive igneous rocks. Modified and adapted from Love and Chubbuck (1985)
- Major Wyoming sedimentary basins. Map shows approximate extent of latest Cretaceous and early Tertiary basins
- Oil shale-bearing strata. The shaded areas depicts the oil shale occurrence. Oil shale occurs in the Teton Formation along the southwestern margin of the Big Horn Basin (J.D. Love, personal communication, 1984) and in the Ogilvie Bed Formation in the Lytle Mountain area, T1, 41-42 N., R1, 89-92 W. (By, 1969), both of Eocene age
- Unlithified Pennsylvanian rocks exposed at the surface. Modified and adapted from Love and Chubbuck (1985)
- Natural gas processing plant. Notation includes operating and capacity in millions of cubic feet (MMCF) per day. Locations are approximate

LIST OF OIL AND GAS PRODUCING GROUPS, FORMATIONS, AND MEMBERS

Both abandoned 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., (P2). Formations from which significant hydrogen sulfide is produced are enclosed in brackets, e.g., [M4].

TERTIARY	UPPER CRETACEOUS	LOWER CRETACEOUS	JURASSIC-TRASSIC	PERMIAN-PENNSYLVANIAN	MISSISSIPPIAN-DEVONIAN-OROGRAPHIC-CAMBRIAN
Turk T1 T2 T3 T4 T5 T6 T7 T8 T9 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T26 T27 T28 T29 T30 T31 T32 T33 T34 T35 T36 T37 T38 T39 T40 T41 T42 T43 T44 T45 T46 T47 T48 T49 T50 T51 T52 T53 T54 T55 T56 T57 T58 T59 T60 T61 T62 T63 T64 T65 T66 T67 T68 T69 T70 T71 T72 T73 T74 T75 T76 T77 T78 T79 T80 T81 T82 T83 T84 T85 T86 T87 T88 T89 T90 T91 T92 T93 T94 T95 T96 T97 T98 T99 T100	Laramie K1 K2 K3 K4 K5 K6 K7 K8 K9 K10 K11 K12 K13 K14 K15 K16 K17 K18 K19 K20 K21 K22 K23 K24 K25 K26 K27 K28 K29 K30 K31 K32 K33 K34 K35 K36 K37 K38 K39 K40 K41 K42 K43 K44 K45 K46 K47 K48 K49 K50 K51 K52 K53 K54 K55 K56 K57 K58 K59 K60 K61 K62 K63 K64 K65 K66 K67 K68 K69 K70 K71 K72 K73 K74 K75 K76 K77 K78 K79 K80 K81 K82 K83 K84 K85 K86 K87 K88 K89 K90 K91 K92 K93 K94 K95 K96 K97 K98 K99 K100	Washakie W1 W2 W3 W4 W5 W6 W7 W8 W9 W10 W11 W12 W13 W14 W15 W16 W17 W18 W19 W20 W21 W22 W23 W24 W25 W26 W27 W28 W29 W30 W31 W32 W33 W34 W35 W36 W37 W38 W39 W40 W41 W42 W43 W44 W45 W46 W47 W48 W49 W50 W51 W52 W53 W54 W55 W56 W57 W58 W59 W60 W61 W62 W63 W64 W65 W66 W67 W68 W69 W70 W71 W72 W73 W74 W75 W76 W77 W78 W79 W80 W81 W82 W83 W84 W85 W86 W87 W88 W89 W90 W91 W92 W93 W94 W95 W96 W97 W98 W99 W100	Albion A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24 A25 A26 A27 A28 A29 A30 A31 A32 A33 A34 A35 A36 A37 A38 A39 A40 A41 A42 A43 A44 A45 A46 A47 A48 A49 A50 A51 A52 A53 A54 A55 A56 A57 A58 A59 A60 A61 A62 A63 A64 A65 A66 A67 A68 A69 A70 A71 A72 A73 A74 A75 A76 A77 A78 A79 A80 A81 A82 A83 A84 A85 A86 A87 A88 A89 A90 A91 A92 A93 A94 A95 A96 A97 A98 A99 A100	Shinarump S1 S2 S3 S4 S5 S6 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23 S24 S25 S26 S27 S28 S29 S30 S31 S32 S33 S34 S35 S36 S37 S38 S39 S40 S41 S42 S43 S44 S45 S46 S47 S48 S49 S50 S51 S52 S53 S54 S55 S56 S57 S58 S59 S60 S61 S62 S63 S64 S65 S66 S67 S68 S69 S70 S71 S72 S73 S74 S75 S76 S77 S78 S79 S80 S81 S82 S83 S84 S85 S86 S87 S88 S89 S90 S91 S92 S93 S94 S95 S96 S97 S98 S99 S100	Carboniferous C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C41 C42 C43 C44 C45 C46 C47 C48 C49 C50 C51 C52 C53 C54 C55 C56 C57 C58 C59 C60 C61 C62 C63 C64 C65 C66 C67 C68 C69 C70 C71 C72 C73 C74 C75 C76 C77 C78 C79 C80 C81 C82 C83 C84 C85 C86 C87 C88 C89 C90 C91 C92 C93 C94 C95 C96 C97 C98 C99 C100

LIST OF ABBREVIATIONS FOR PIPELINE OPERATORS

- EWV - Energy West Wyoming
- KSC - Kansas Nebraska Interstate
- NCC - Northern Gas Company
- NCC - NCC Transmission
- NCC - Rocky Mountain Pipeline System, LLC
- WBS - Wyoming Basin Interstate
- WBS - Wind River Gathering

PIPELINES

- Includes operating and proposed pipelines and pipe diameter in inches, provided operating or proposed status is indicated as possible and as only accurate within the scale of this map or maps of similar scale. Most critical operating systems are not shown.
- PLATEAU - Crude oil
- OD 36" - Natural gas
- AMARILLO - Carbon dioxide
- COGNAC - Refinery or natural gas processing plant products

REFERENCES

By, K.W., 1960. Stratigraphy of Eocene sedimentary rocks in the Lytle Mountain area, Hot Springs, Fremont, and Washakie Counties, Wyoming. PhD dissertation, University of Wyoming, Laramie, 181 p.

Butler, P., and Engh, R.H., 1965. Petroleum and natural gas fields in Wyoming. U.S. Bureau of Mines Bulletin 542, 539 p.

De Bruin, R.H., 2005. Oil and gas maps of Wyoming. Wyoming State Geological Survey Map Series 55, scale 1:500,000.

De Bruin, R.H., and Hostetler, S.D., 1993. Oil and gas fields map of the Big Horn Basin, Wyoming. Wyoming State Geological Survey Map Series 45, scale 1:130,000.

De Bruin, R.H., and Hostetler, S.D., 1991. Oil and gas fields map of the Wind River Basin, Wyoming. Wyoming State Geological Survey Map Series 37, scale 1:130,000.

Love, J.D., and Chubbuck, A.C., 1985. Geology map of Wyoming. U.S. Geological Survey Map, scale 1:500,000.

Oil and Gas Fields Symposium Committee, 1989. Oil and Gas Fields of Big Horn and Wind River Basins. Wyoming Geological Association, 59 p.

Wyoming State Geological Survey, 1993. Wyoming State Geological Survey (2002) (unpublished).

Wyoming State Geological Survey, 1997. Wyoming oil and gas fields symposium. Wyoming Geological Association, 579 p.

Publications International Corporation/Copyright, 2003. 2003 [unpub]. Production reports, Denver, Colorado.

Wyoming Oil and Gas Conservation Commission, 2007. Wyoming oil and gas statistics 2006. Casper, Wyoming.

REFERENCES (continued)

Geology coverages

Basin boundaries, Tertiary and Quaternary volcanic rocks, and Pennsylvanian rocks; modified and adapted from Love and Chubbuck (1985).

Oil shale outcrops for Teton Formation in the Big Horn Basin, J.D. Love (personal communication) and for Ogilvie Bed Formation in Lytle Mountain area, By (1969), Basin area; De Bruin (1995).

Base map coverages

County boundaries. Spatial Data Visualization Center, University of Wyoming (1997).

City locations. Wyoming Water Resources Center GIS Lab, University of Wyoming (1994).

Federal boundaries. Spatial Data Visualization Center, University of Wyoming (1994).

Public Land Survey System (PLSS). Wyoming Water Resources Center GIS Lab, University of Wyoming (1994).

Railroads. U.S. Census TIGER files (1995).

Highways and roads. Wyoming State Geological Survey (2002); U.S. Census TIGER files (1997).

State boundaries. Wyoming State Geological Survey (2002); Spatial Data Visualization Center, University of Wyoming (1995).

ACKNOWLEDGMENTS

The author thanks Cynthia S. Boyd for assistance in data collection, the Wyoming Oil and Gas Conservation Commission, Wyoming Public Service Commission, and the Petroleum Association of Wyoming for information about fields, pipelines, natural gas processing plants, and refineries. A special thanks is given to all the oil, natural gas, and pipeline companies who sent updated information on the pipelines they operate and to the Wyoming Pipeline Authority for updated pipeline locations.

OIL AND GAS FIELDS MAP OF CENTRAL AND NORTHWESTERN WYOMING BASINS
by
Rodney H. De Bruin
2007