C

SYSTEM OR SERIES

C 14
SHELL 1 GOVT. WAMSLEY
SW SW SEC. 13, T. 57 N., R. 83 W.,
SHERIDAN COUNTY, WYOMING
KB 3917'

C 15
AMERADA 1 GOVT. CRANSTON
NE SE SEC. 17, T. 57 N., R. 79 W.,
SHERIDAN COUNTY, WYOMING
KB 3948'

C 16
SHELL 1 CLEAR CREEK
NW SE SEC. 11, T. 57 N., R. 78 W.
SHERIDAN COUNTY, WYOMING
KB 4165'

C 17
DAVIS 1 WALLICK-DOBRENZ
SW SW SEC. 3, T. 57 N., R. 75 W.,
CAMPBELL COUNTY, WYOMING
KB 3842'

C 18
JENKINS 1 JENKINS
NE SE SEC. 35, T. 58 N., R. 74 W.,
CAMPBELL COUNTY, WYOMING
KB 4210'

C 19
MESA 1 USA MC BRIDE
SW SW SEC. 23, T. 9 S., R. 50 E.,
POWDER RIVER COUNTY, MONTANA
KB 3833'

C 20
DAVIS 1 FED. ROGERS
SE SW SEC. 23, T. 58 N., R. 71 W.,
CAMPBELL COUNTY, WYOMING
KB 3698'

C 21
TRIGG 1 GOVT. HUMBLE
C LOT 14, SEC. 31, T. 9 S., R. 53 E.,
POWDER RIVER COUNTY, MONTANA
KB 3711'

C 22
GARY 23-1 BRUNER
SW NE SEC. 23, T. 9 S., R. 54 E.,
POWDER RIVER COUNTY, MONTANA
KB 4212'

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UPPER CRETACEOUS

LANCE FORMATION AND FOX HILLS SANDSTONE, UNDIVIDED

LEWIS SHALE

MESAVERDE FORMATION

TEAPOT SANDSTONE MEMBER

PARKMAN SANDSTONE MEMBER

BASE OF ARDMORE BENTONITE

SHANNON SANDSTONE MEMBER

STEELE SHALE

NIOBRARA FORMATION

SAGE BREAKS SHALE

FRONTIER FORMATION

LOWER CRETACEOUS

MOWRY SHALE

MUDDY SANDSTONE

SKULL CREEK SHALE

*"DAKOTA SILT"

INYAN KARA GROUP

JURASSIC

MORRISON FORMATION

*"UPPER SUNDANCE FORMATION"

*"LOWER SUNDANCE FORMATION"

TRIASSIC

CHUGWATER FORMATION

PERMIAN

GOOSE EGG FORMATION

TENSLEEP FORMATION

PENNSYLVANIAN

MISSISSIPPIAN

MADISON LIMESTONE

ORDOVICIAN

BIGHORN DOLOMITE

CAMBRIAN

DEADWOOD FORMATION

PRECAMBRIAN

PE

BASE OF ARDMORE BENTONITE

BASE OF CLAY SPUR BENTONITE

LANCE FORMATION AND FOX HILLS SANDSTONE, UNDIVIDED

PIERRE SHALE

RED BIRD SILTY MEMBER

MITTEN MEMBER

SHANNON SANDSTONE MEMBER EQUIVALENT

GAMMON FERRUGINOUS MEMBER

NIOBRARA FORMATION

SAGE BREAKS MEMBER

CARLILE SHALE

TURNER SANDY MEMBER

POOL CREEK SHALE MEMBER

GREENHORN FORMATION

BELLE FOURCHE SHALE

BASE OF CLAY SPUR BENTONITE

MOWRY SHALE

MUDDY SANDSTONE

SKULL CREEK SHALE

*"DAKOTA SILT"

INYAN KARA GROUP

MORRISON FORMATION

*"UPPER SUNDANCE FORMATION"

*"LOWER SUNDANCE FORMATION"

CHUGWATER FORMATION

GOOSE EGG FORMATION

MINNEKAHTA LIMESTONE MEMBER

OPECHE SHALE MEMBER

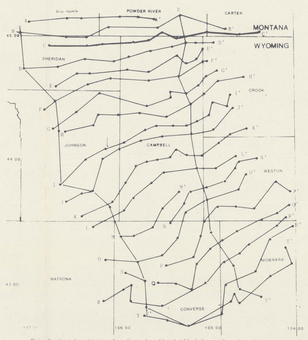
MINNELUSA FORMATION

C'

C 24
UNION 1 GOVT.-NEWTON
NW SW SEC. 23, T. 9 S., R. 59 E.
CARTER COUNTY, MONTANA
KB 3444'

C 23
GREAT WESTERN 1 GOVT. ANTHONY
SW NE SEC. 35, T. 9 S., R. 57 E.
CARTER COUNTY, MONTANA
KB 3569'

? BASE OF CLAY SPUR BENTONITE
MOWRY SHALE
MUDDY SANDSTONE
SKULL CREEK SHALE
*"DAKOTA SILT"
INYAN KARA GROUP
MORRISON FORMATION
*"UPPER SUNDANCE FORMATION"
*"LOWER SUNDANCE FORMATION"
CHUGWATER FORMATION
GOOSE EGG FORMATION
MINNELUSA FORMATION
MADISON LIMESTONE
RED RIVER FORMATION
DEADWOOD FORMATION



Map showing locations of selected wells drilled for oil and gas in the Powder River basin.

EXPLANATION

Correlation line at Group, Formation, Member, or bentonite boundaries --- Queried where correlation is uncertain.

Correlation along an unconformity --- Queried where correlation is uncertain.

* Widely used subsurface terminology.

Datum is top of Lower Cretaceous Mowry Shale.

Spontaneous potential curve

Resistivity curves

Depth of well, in feet, below Kelly Bushing (KB)

Meters Feet

This illustration is preliminary and has not been edited or reviewed for conformity with Geological Survey standards.

CROSS SECTION C – C' SHOWING ELECTRIC LOGS OF UPPER CRETACEOUS AND OLDER ROCKS, POWDER RIVER BASIN, POWDER RIVER AND CARTER COUNTIES, MONTANA AND SHERIDAN AND CAMPBELL COUNTIES, WYOMING

BY JAMES E. FOX 1986

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