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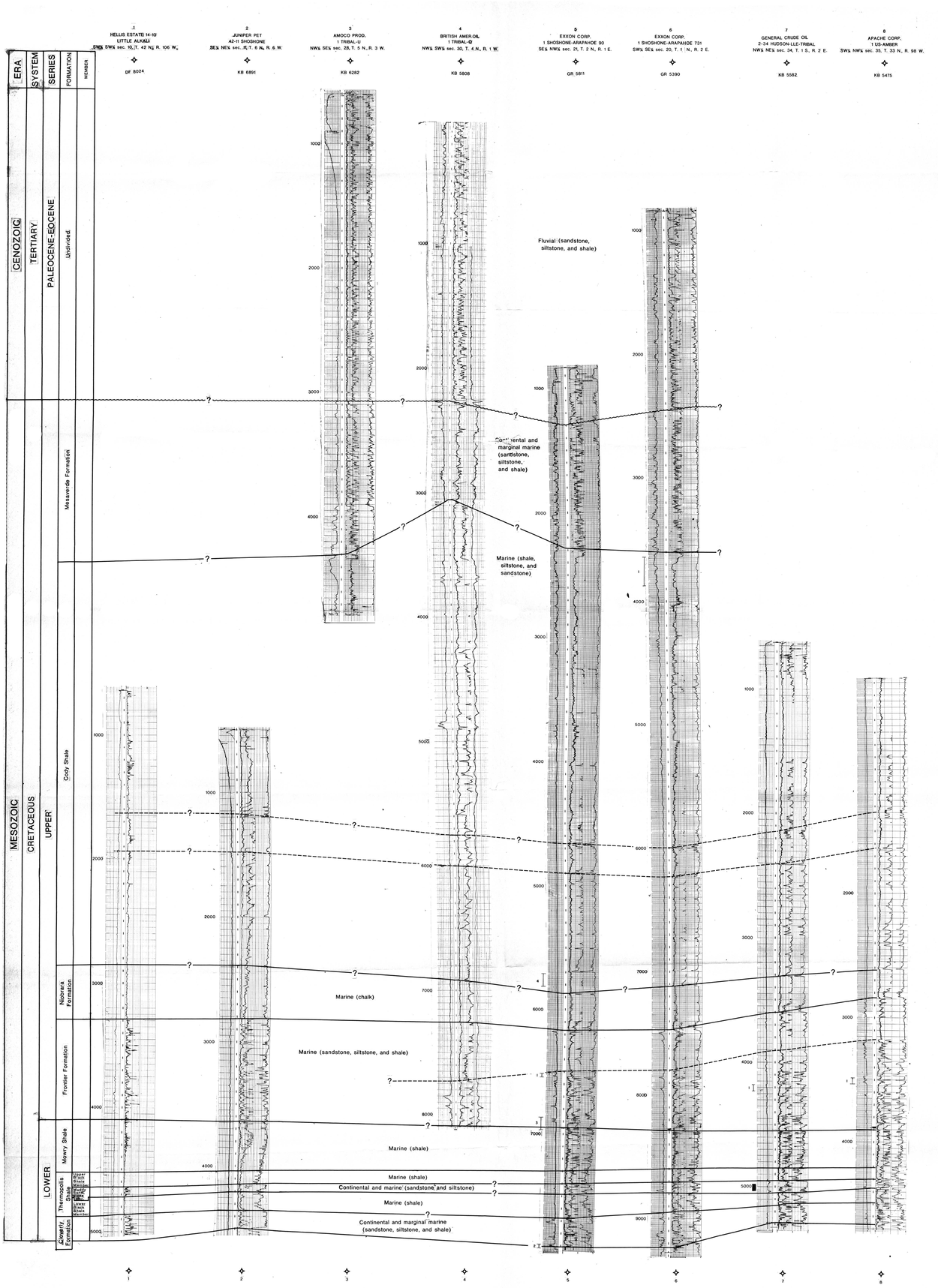

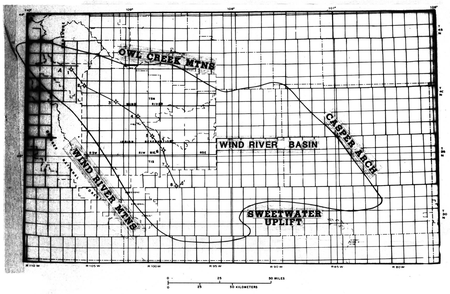

INDEX MAP

EXPLANATION

Spontaneous Potential Curve — Resistivity Curve; Conductivity Curve

Depth in well, in feet below Kelly Bushing (KB) — 7000

Correlation line at formation or member boundaries - Queried where correlation is uncertain.

Correlation line within a formation or member - Queried where correlation is uncertain.

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

Interval and identification number of drill stem test (DST)

Cored interval

KB 7400 — Elevation of Kelly Bushing in feet

GR 7400 — Elevation of ground surface in feet

DF 7400 — Elevation of derrick floor in feet

Cross section datum is the top of the Mowry Shale.

Dry and abandoned well

Meters — Feet

ABBREVIATIONS

Kmv	Mesaverde Formation
Kcs	Cody Shale Member
Kcl	Clareyville Formation
Kn	Niobrara Formation
DST	Drill stem test
REC	Recovered
BHP	Bottom hole
OP	Open
H	Hour
M	Minute
IFP	Initial flow pressure
FFP	Final flow pressure
ISIP	Initial shut in pressure
FSIP	Final shut in pressure
IHP	Initial hydrostatic pressure
FHP	Final hydrostatic pressure
WCM	Water cut mud
SWCM	Salt water cut mud
GCM	Slightly gas cut mud
OCM	Oil cut mud
OGCM	Oil and gas cut water
SWCM	Oil and water cut mud
OWGCM	Oil and slightly gas cut muddy water
GWCM	Gas and water cut mud, slightly gas cut water
GMCW	Gas and Mud Cut Water
cfs	Cubic feet
cc	Cubic centimeters
psi	Pounds per square inch

Metric Equivalents:
1 ft = 0.3048 m
1 in = 2.54 cm
1 psi = 7.03 x 10^{-2} kg/cm^2
1 bopd = 159 liters of oil per day
1 mcfd = 28.32 m^3 of gas per day
1 bwpd = 159 liters of water per day

DRILL STEM TEST DATA
Compiled from PetroLeum Information Corporation Well History Control System (WHCS) Data

WELL #1
DST 1 5314-6539 ft Kf
REC 410 ft SGCM; 1 cft GAS; 2000 cc MUD; 580 ft SOWGCM
IFP 35 psi FFP 44 psi
FINAL OP 1 H
ISIP 75 psi FFP 105 psi
FSIP 2012 psi 1 H
IHP 2664 psi FHP 2664 psi

DST 2 7896-7925 ft Kcl
REC 375 ft GWCM; 600 ft GCW
IFP 35 psi FFP 35 psi
ISIP 125 psi FFP 183 psi
FINAL OP 1 H
IFP 210 psi FFP 303 psi
FSIP 1212 psi 1 H
IHP 3948 psi FHP 3948 psi

DST 3 6865 - 6965 ft Kn
REC 472 ft WCM; 1590 ft GWCM; 630 ft WCM

DST 4 5715 - 5815 ft Kn
REC 75 ft SGCM; 1615 ft SOWGCM; 160 ft GWCOCM
REC 580 ft SGWCM
IHP OP 20 M
FINAL OP 1 H 5 M

WELL #2
DST 7 8440-8571 ft Kmv
REC 90 ft GWCM; 3199 ft WTR
IFP 35 psi
IFP 566 psi FFP 805 psi
FINAL OP 0 H 1 M
ISIP 1620 psi FFP 1580 psi
FSIP 1620 psi 1 H
FSIP 1621 psi 4 H
IHP 1899 psi FHP 1898 psi

WELL #3
DST 8 8195-8232 ft Kf
REC 90 ft SGCM; 2000 cc SGCM; 1 cft GAS
IHP OP 30 M
IFP 35 psi FFP 35 psi
FINAL OP 1 H
IFP 35 psi FFP 35 psi
ISIP 650 psi 1 H
FSIP 270 psi 2 H
IHP 1905 psi FHP 1966 psi

WELL #4
DST 9 7496-7540 ft Kf
REC 1 ft WCM
IHP OP 1 H
FINAL OP 1 H
IFP 37 psi FFP 160 psi
ISIP 1476 psi 30 M
FSIP 1608 psi 1 H 30 M
IHP 1790 psi FHP 1790 psi

WELL #5
DST 10 4195-4232 ft Kmv
REC 90 ft SGCM; 2000 cc SGCM; 1 cft GAS
IHP OP 30 M
IFP 35 psi FFP 35 psi
FINAL OP 1 H
IFP 35 psi FFP 35 psi
ISIP 650 psi 1 H
FSIP 270 psi 2 H
IHP 1905 psi FHP 1966 psi

WELL #6
DST 11 7496-7540 ft Kf
REC 1 ft WCM
IHP OP 1 H
FINAL OP 1 H
IFP 37 psi FFP 160 psi
ISIP 1476 psi 30 M
FSIP 1608 psi 1 H 30 M
IHP 1790 psi FHP 1790 psi

REFERENCES

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Keefer, W. R., 1972, Frontier, Cody, and Mesaverde formations in the Wind River and southern Bighorn Basins, Wyoming: U.S. Geological Survey Professional Paper 495-E, 23 p.

Shapiro, S. S., 1978, Depositional environments and correlation of the Mesaverde Formation, Wind River Basin, Wyoming: Wyoming Geological Association 30th Annual Field Conference Guidebook, Resources of the Wind River Basin, p. 167-180.

This chart is preliminary and has not been reviewed for conformity with U.S. Geological Survey editorial standards and stratigraphic nomenclature.

PRELIMINARY CHART A-A' SHOWING ELECTRIC LOG CORRELATION, FACIES, AND TEST DATA OF SOME CRETACEOUS AND TERTIARY ROCKS, WIND RIVER BASIN, WYOMING

BY
JAMES E. FOX AND ROBERT L. PRIESTLEY

1983