DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE U.S. DEPARTMENT OF ENERGY

OPEN-FILE REPORT
83-418
SHEET 2 OF 2

C′

EAST

BASTARD BUTTE FIELD

BUSH LAKE FIELD

9	10	11	12	13	14	15	16
2.1 mi (3.4 km)	5.1 mi (8.2 mi)	12.3 mi (19.8 km)	9.2 mi (14.8 km)	10.3 mi (16.7 km)	7.3 mi (11.7 km)	21.6 mi (34.8 km)	

Energy Reserves Group
1 Forbes Federal
ONE\SEC.14,T.25N.,R.97W.
GR 6753

Texas Oil and Gas
1 Federal—Q
CNE\SEC.28,T.25N.,R.96W.
GR 6741

Apache Corp.
1—20 Federal
SW\SE\SEC.20,T.25N.,R.95W.
KB 6724

Texas Oil and Gas
1 Eagle Springs Unit
SW\NE\SEC.27,T.25N.,R.94W.
KB 6741

Apexco Inc. Intermountail Pet., Discovery Oil
32—22 Unit Wall—Federal
SW\NE\SEC.22,T.25N.,R.93W.
KB 7095

Davis Oil
1 Root Unit
NW\SE\SEC. 4,T.24N.,R.92W.
KB 6829

Southland Royalty
1 Eagles Nest—Federal
CNW\SEC.29,T.25N.,R.91W.
GR 7008

SYSTEM
SERIES
STRATIGRAPHIC UNIT

TERTIARY
PALEOCENE

FORT UNION FORMATION

(UNNAMED LOWER TERTIARY UNIT)

CRETACEOUS
UPPER CRETACEOUS

LANCE FORMATION

FOX HILLS SANDSTONE

LEWIS SHALE

LUDLOW FORMATION

FOX HILLS SANDSTONE

MEDICINE BOW FORMATION

ALMOND FORMATION

ROCK SPRINGS FORMATION

WATERFLOW SANDSTONE

STEELE SHALE

FOX HILLS SANDSTONE

LEWIS SHALE

ALMOND FORMATION

CANYON CREEK ZONE

RUSTY ZONE

TRAIL ZONE

ROCK SPRINGS FORMATION

Producing Interval
IPF 363 MCFD

Producing Interval
IPF 2218 MCFD

TD 14295

TD 13825

TD 13579

TD 14857

TD 14210

TD 15076

TD 15234

Measured Section
Sec. 34 & 35, T.25N., R.95W.

EXPLANATION

REFERENCES

Hettinger, R. D., Honeyman, R. J., and Ochsner, W. P., 1980, Correlation of some Upper Cretaceous and lower Tertiary rocks in south-central Wyoming: U.S. Geological Survey Professional Paper 1087, 15p.

Law, B. E., 1979, Section A-A′: Subsurface and surface correlations of some Upper Cretaceous and Tertiary rocks in northwestern Sweetwater County, Wyoming: U.S. Geological Survey Open-File Report 79-1010.

Correlation line — Datum relationship and bed thickness may vary. Datum is a regional stratigraphic marker

Unconformity—queried where uncertain

Coal

Abandoned oil and gas test well

Producing gas well

METRIC EQUIVALENTS

1 ft = 0.3048 m
1 psi = 7.43 X 10^{-2} kg per cm^2
1 BWPD = 28.32 m^3 per day
1 BWPD = 139 liters of water per day

TYPE OF LOG USED

Resistivity curve

Conductivity curve

Spontaneous Potential curve

Depth in Feet, below KB

Cored interval and core number

Drill stem test interval and test number

Perforation test interval

LITHOLOGY

Conglomerate and sandstone/ conglomerate

Sandstone

Channel sandstone with overbank sandstone, siltstone, and/or shale

Siltstone

Shale

Coal

Cemented interval; lithology unknown

ABBREVIATIONS

DF	Derrick floor, elevation in feet
GL	Ground, elevation in feet
KB	Kelly bushing, elevation in feet
DST	Drill stem test(s)
TSTM	Too small to measure
TOOH	Tool open hole
CSG	Cased
SIGOCM	Slightly gas cut mud
GCM	Gas cut mud
SIGOCW	Slightly gas cut wtr
GCW	Gas cut water
OCM	Oil cut mud
OCW	Oil cut water
SIOCM	Slightly oil cut mud
SIOCW	Slightly oil cut water
SIGOCMW	Slightly gas cut muddy water
SIGOCW	Slightly gas cut water
MCFPD	Thousand cubic feet per day
BWPD	Barrels of water per day
BOPD	Barrels of oil per day
FP	Flow pressure
ISIP	Initial flow pressure
FSIP	Final flow pressure
ISIP	Initial shut in pressure
FSIP	Final shut in pressure
BHT	Bottom hole temperature
WCM	Water cushion mud, flowing
SDFO	Sand-oil frac
SDFW	Sand-water frac
SDFG	Sand-gel frac
SDFS	Sand-water frac
SI	Shut in, waiting on pipeline
SIGOC	Slightly gas cut
SIOC	Slightly oil cut
ALCM	Aluminum
CSG	Casing
QTZ	Quartz
CONGL	Cobble conglomerate
SS	Sandstone
FRAC	Fracture

VERTICAL SCALE

FEET	METERS
0	0
200	100
400	200
600	200
800	200
1000	300

INDEX MAP SHOWING LOCATION OF CROSS SECTION

SWEETWATER COUNTY
SWEETWATER COUNTY
LOCATION

Scale
0 5 10 15 mi
0 5 10 15 km

e—calculation and reference number of well.

o—calculation and reference number of measured section.—Sec. 34 & 35, T.25N., R.95W. Located at intersection with line of cross section.

SECTION C–C′ SURFACE AND SUBSURFACE CORRELATIONS OF SOME UPPER CRETACEOUS AND TERTIARY ROCKS FROM THE NORTHEAST FLANK ROCK SPRINGS UPLIFT TO THE RAWLINS UPLIFT, GREAT DIVIDE BASIN, WYOMING

By

HILDIE BUCUREL—WHITE

1983