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
T.2 N. R.97 W.	T.2 N. R.96 W.	T.2 N. R.95 W.	T.2 N. R.94 W.	T.2 N. R.93 W.	T.2 N. R.92 W.	T.2 N. R.91 W.	T.2 N. R.90 W.

Energy Reserves Group
1 Forbes Federal
CNE¼SEC.14,T.25N.,R.97W.
GR 6753

Texas Oil and Gas
1 Federal—Q
CNE¼SEC.28,T.25N.,R.96W.
GR 6741

Apache Corp.
1—20 Federal
SW¼SE¼SEC.20,T.25N.,R.95W.
KB 6724

Texas Oil and Gas
1 Eagle Springs Unit
SW¼NE¼SEC.27,T.25N.,R.94W.
KB 6741

Apexco Inc. Intermountail Pet., Discovery Oil
32—22 Unit Wall—Federal
SW¼NE¼SEC.22,T.25N.,R.93W.
KB 7095

Davis Oil
1 Root Unit
NW¼SE¼SEC. 4,T.24N.,R.92W.
KB 6829

Southland Royalty
1 Eagles Nest—Federal
CNW¼SEC.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

PINE RIDGE SANDSTONE

MEDICINE BOW FORMATION

WATERTOWN FORMATION

STEELE SHALE

FOX HILLS SANDSTONE

LEWIS SHALE

ALMOND FORMATION

CANYON CREEK ZONE

RUSTY ZONE

TRAIL ZONE

ROCK SPRINGS FORMATION

TD 14295

TD 13625

TD 13429

TD 14857

TD 14010

TD 16076

TD 15204

TD 15004

Producing Interval
IPF 363 MCFD

Producing Interval
IPF 2218 MCFD

Reservoir Section
Dev. to K.B. T.,15k.; S.15k

EXPLANATION

REFERENCES

Correlation line — Datum relationship not implied

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 = 159 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/ siltstone

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
MCFD	Thousand cubic feet per day
BO	Barrels of oil per day
BOPD	Barrels of oil per day
BW	Barrels of water per day
BWPD	Barrels of water per day
GCM	Gas cut mud
OCM	Oil cut mud
SOCM	Slightly oil cut mud
WCM	Water cut mud
GCW	Gas cut water
OCW	Oil cut water
SOCW	Slightly oil cut water
GCSW	Gas cut salt water
OCSW	Slightly oil cut salty water
WCSW	Water cut salty water
NO FLUID	No fluid to surface
GSTM	Gas to surface in minutes
OCM	Oil cut mud

MCFPD	Thousand cubic feet per day
BOPD	Barrels of oil per day
BWPD	Barrels of water per day
FP	Flow pressure
IFP	Initial flow pressure
FFP	Final flow pressure
ISIP	Initial shut in pressure
FSIP	Final shut in pressure
BHT	Bottom hole temperature
BHP	Bottom hole pressure, flowing
SSTVD	Sand-oil feet
SSTW	Sand-water feet
SSTG	Sand-gas feet
SSTG	Sand-water feet
Ss	Sandstone, fine-grained
Sltst	Siltstone
Sh	Shale
Qtz	Quartz
Lith	Lithic constituents
Arg	Argillaceous
Pyrite	Pyrite

VERTICAL SCALE

FEET 0 200 400 600 800 1000

METERS 0 100 200 300

INDEX MAP SHOWING LOCATION OF CROSS SECTION

SWEETWATER COUNTY
CARBON COUNTY
SWITCHOVER COUNTY
LOST SOLDIER
BUSH
BASTARD BUTTE
ROCK SPRINGS UPLIFT
ROCK SPRINGS

T.27 N.
T.25 N.
T.23 N.
T.21 N.
R.97 W.
R.93 W.
R.91 W.
R.89 W.

Scale
0 10 20
10 30 km

c—calculation and reference number of well.

c—calculation and reference number of measured section.—Line of section connected 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

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1983