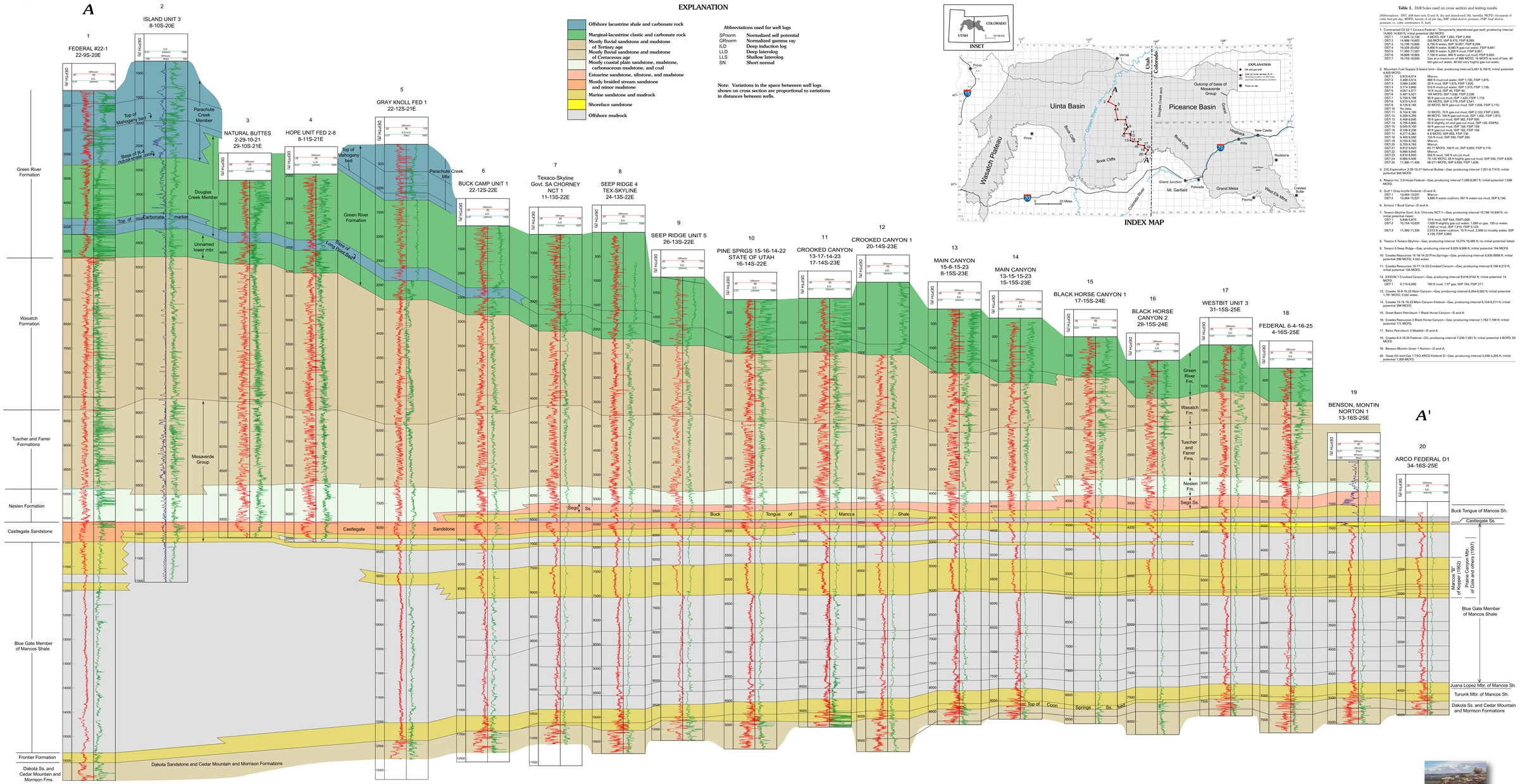
U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY



EXPLANATION

- Offshore lacustrine shale and carbonate rock
- Marginal-lacustrine clastic and carbonate rock
- Mostly fluvial sandstone and mudstone of Tertiary age
- Mostly fluvial sandstone and mudstone of Cretaceous age
- Mostly coastal plain sandstone, mudstone, carbonaceous mudstone, and coal
- Estuarine sandstone, siltstone, and mudstone
- Mostly braided stream sandstone and minor mudstone
- Marine sandstone and mudrock
- Shoreface sandstone
- Offshore mudrock

Abbreviations used for well logs

SPnorm	Normalized self potential
GRnorm	Normalized gamma ray
ILD	Deep induction log
LLD	Deep laterolog
LLS	Shallow laterolog
SN	Short normal

Note: Variations in the space betweeen well logs shown on cross section are proportional to variations in distances between wells.

Table 1. Drill holes used on cross section and testing results

[Abbreviations. DRT, drill-stem test; D and A, dry and abandoned; bbl, barrels; MCFD, thousands of cubic feet per day; BOPD, barrels of oil per day; ISIP, initial shut-in pressure; FSIP, final shut-in pressure; cc, cubic centimeters; ft, feet]

1. Continental Oil 22-1 Conoco-Federal—Temporarily abandoned gas well; producing interval 14,803-14,920 ft; initial potential 250 MCFD.
   DST-1 11,925-12,130 4 MCFD, ISIP 1,582, FSIP 2,459.
   DST-2 14,666-14,803 250 MCFD, ISIP 8,475, FSIP 8,055.
   DST-3 15,709-15,800 8,700 ft water, ISIP 10,057, FSIP 8,256.
   DST-4 16,205-16,300 3,800 ft water, 8,060 ft gas-cut water, ISIP 9,857.
   DST-5 17,355-17,561 7,600 ft water, 5,200 ft mud, FSIP 9,873.
   DST-6 16,669-16,905 7,400 ft water-cut mud, 60 ft mud, FSIP 8,833.
   DST-7 15,703-16,500 Gas at a maximum of 969 MCFD, 15 MCFD at end of test, 40 bbl gas-cut water, 48 bbl very highly gas-cut water.

2. Mountain Fuel Supply 3 Island Unit—Gas; producing interval 5,487-6,158 ft; initial potential 1,820 MCFD.
   DST-1 5,978-6,014 Marun.
   DST-2 3,488-3,514 860 ft mud-cut water, ISIP 1,730, FSIP 1,876.
   DST-3 3,568-3,630 20 ft mud, ISIP 1,875, FSIP 1,550.
   DST-4 3,774-3,950 510 ft mud-cut water, ISIP 1,310, FSIP 1,735.
   DST-5 5,487-5,521 Marun. ISIP 2,238.
   DST-6 5,487-5,521 164 MCFD, ISIP 1,538, FSIP 2,238.
   DST-7 5,758-5,788 90 ft gas-cut mud, ISIP 1,422, FSIP 1,110.
   DST-8 5,819-5,910 164 MCFD, ISIP 2,779, FSIP 2,541.
   DST-9 6,125-6,165 25 MCFD, 60 ft gas-cut mud, ISIP 1,635, FSIP 2,110.
   DST-10 8,154-8,190 12 MCFD, 70 ft gas-cut mud, ISIP 2,103, FSIP 2,930.
   DST-11 8,154-8,190 98 MCFD, 100 ft gas-cut mud, ISIP 1,402, FSIP 1,872.
   DST-12 8,209-8,259 10 ft gas-cut mud, ISIP 362, FSIP 500.
   DST-13 8,458-8,500 50 ft slightly oil and gas-cut mud, ISIP 128, FSIP52.
   DST-14 9,785-9,900 40 ft gas-cut mud, ISIP 1,756, FSIP 156.
   DST-15 9,136-9,226 40 ft gas-cut mud, ISIP 182, FSIP 195.
   DST-16 9,136-9,226 6.9 MCFD, ISIP 655, FSIP 730.
   DST-17 9,277-9,362 125 ft mud, ISIP 250, FSIP 205.
   DST-18 9,403-9,550 Marun.
   DST-19 9,703-9,763 Marun.
   DST-20 9,910-9,933 Marun.
   DST-21 9,910-9,933 63.17 MCFD, 100 ft oil, ISIP 5,950, FSIP 5,110.
   DST-22 9,890-9,940 Marun.
   DST-23 9,915-9,920 500 ft mud, 100 ft oil-cut mud.
   DST-24 9,888-9,935 70-125 MCFD, 58 ft highly gas-cut mud, ISIP 545, FSIP 4,625.
   DST-25 11,360-11,380 59-211 MCFD, ISIP 4,205, FSIP 1,926.

3. CIG Exploration 2-29-10-21 Natural Buttes—Gas; producing interval 7,251-8,774 ft; initial potential 500 MCFD.

4. Mapco Inc. 2-8 Hope Federal—Gas; producing interval 7,288-8,867 ft; initial potential 1,586 MCFD.

5. Gulf 1 Gray knolls Federal—D and A.
   DST-1 13,484-13,537 Marun.
   DST-2 13,484-13,537 4,995 ft water cushion, 557 ft water-cut mud, ISIP 5,746.

6. Amoco 1 Buck Camp—D and A.

7. Texaco-Skyline Govt. S.A. Chorney NCT-1—Gas; producing interval 10,780-10,940 ft; no initial potential listed.
   DST-1 5,848-5,870 10 ft mud, ISIP 544, FSIP1,006.
   DST-2 10,754-10,830 1,500 ft slightly gas-cut water, 1,550 cc gas, 150 cc water, 1,460 cc mud, ISIP 1,915, FSIP 2,123.
   DST-3 11,300-11,330 2,013 ft water cushion, 15 ft mud, 2,000 cc muddy water, ISIP 4,135, FSIP 3,863.

8. Texaco 4 Texaco-Skyline—Gas; producing interval 10,275-10,485 ft; no initial potential listed.

9. Texaco 5 Seep Ridge—Gas; producing interval 9,825-9,906 ft; initial potential 194 MCFD.

10. Coseka Resources 15-16-14-22 Pine Springs—Gas; producing interval 8,935-9009 ft; initial potential 250 MCFD, 4 bbl water.

11. Coseka Resources 13-17-14-23 Crooked Canyon—Gas; producing interval 9,108-9,272 ft; initial potential 134 MCFD.

12. EXXON 1 Crooked Canyon—Gas; producing interval 9,016-9142 ft; initial potential 14 MCFD.
   DST-1 5,715-6,000 150 ft mud, 1 ft^3 gas, ISIP 194, FSIP 211.

13. Coseka 15-8-15-23 Main Canyon—Gas; producing interval 8,454-8,582 ft; initial potential 1,781 MCFD, 5 bbl water.

14. Coseka 13-15-15-23 Main Canyon Federal—Gas; producing interval 8,124-8,211 ft; initial potential 398 MCFD.

15. Great Basin Petroleum 1 Black Horse Canyon—D and A.

16. Coseka Resources 2 Black Horse Canyon—Gas; producing interval 7,762-7,780 ft; initial potential 171 MCFD.

17. Belco Petroleum 3 Westbit—D and A.

18. Coseka 6-4-16-25 Federal—Oil; producing interval 7,240-7,281 ft; initial potential 4 BOPD, 93 MCFD.

19. Benson-Montin Greer 1 Norton—D and A.

20. Texas Oil and Gas 1 TXO ARCO Federal D—Gas; producing interval 4,209-4,255 ft; initial potential 1,300 MCFD.

NORTHWEST TO SOUTHEAST CROSS SECTION OF CRETACEOUS AND LOWER TERTIARY ROCKS ACROSS THE EASTERN PART OF THE UINTA BASIN, UTAH

[Constructed using geophysical logs and American Stratigraphic Company (AMSTRAT) lithologic descriptions]

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2002

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Chapter 11