

**F. S. Duncan B - 13**  
1037' FSL, 496' FWL, SEC 21 T12N R100W  
Moffat County, CO

GL @ 6933'  
KB @ 6947'

UPDATED 11/11/03  
API #05-081-07076

COMPLETION DATE: 10/27/2003

**SURFACE CASING**

8-5/8" 24# J-55  
SET @ 852' GL  
CMT w/ 600 sx  
Circ. 34 bbl cmt to surface

**PROD. CASING**

5 1/2", 17#, L-80  
SET @ 5191'  
CMT w/ 800 sx  
Circ. 40 bbl lead cmt  
Tops of marker jts:  
4923', 4342', 3671', and 2960'

**PRODUCTION TBG**

Shear sub  
1 2-3/8" 4' PJ, 1.875" ID XN-Nipple,  
1 jnt 2-3/8", 1.875" ID XN-Nipple,  
146 jts 2-3/8" 4.7# 8RD EUE L-80 tbg  
EOT @ 4571'

Hole size: 12-1/4"

Hole size: 7-7/8"

Wasatch A-13 perfs: 3600'-3620' w/ 4 SPF, 60 deg phasing  
frac'd w/ 230 bbl fluid (Guar gel), 60-Q N2, & 55,404# 20/40 sand

Wasatch A-15 perfs: 3860'-3880' w/ 4 SPF, 60 deg phasing  
frac'd w/ 174 bbl fluid (Guar gel), 60-Q N2, & 22,994# 20/40 sand

Ft. Union B1 perfs: 4370'-4375' & 4400'-4420' w/ 6 SPF, 60 deg

Ft. Union B2 perfs: 4450'-4470', 4555'-4570' & 4630'-4640' w/ 6 SPF, 60 deg  
frac'd w/ 831 bbl liquid (Guar gel), 60-Q N2, & 242,021# 20/40 sand

PBTD @ 5043' MD

TD @ 5195' MD  
5173' TVD