

**AMOCO STATE #41-16**  
(API #001-09558)

Loc. #320541

FIELD NAME WATTENBERG - #90750

Spud Date 6/5/2006

Basin DENVER - JULESBURG

Location NENE 16 1S65W 6

Elevation 5191' GL

TD 8295'

PBTD 8283'

**Formation Tops**

DENVER - 88'

UPPER ARAPAHOE - 249'

LOWER ARAPAHOE - 510'

FOX HILLS TOP - 1178'

FOX HILLS BASE - 1414'

Base of Upper Pierre - 2480'

NIOBRARA - 7194'

FORT HAYS - 7538'  
CODELL - 7562

D SAND - 7946'  
J SAND - 8006'  
DAKOTA - 8187'

Perf at 305' and pump  
110 sx through perfs to  
surface.

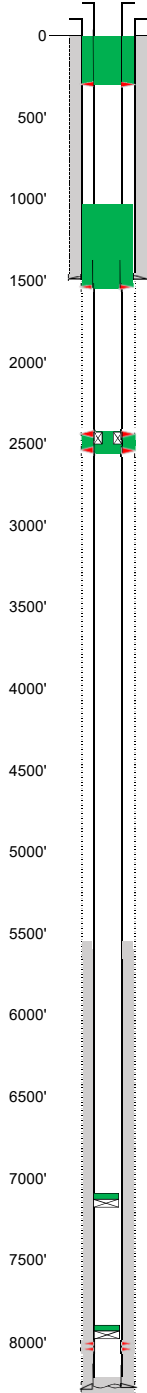
Perf at 1557' and pump  
110 sx through perfs.  
Left 45 sx inside.  
Tagged @ 1033'.

Perf at 2536' & 2430'  
CICR @ 2466', pump 40  
sx through perfs. Leave  
10 sx on top.

CIBP w/ 2 sx @ 7119'  
(75' above NBRR).

CIBP w/ 2 sx @ 7931'  
(75' above top perf).

**AS PLUGGED**



**Existing Casing and Cement Coverage**

SURF: Size: 8.625", Hole Size: 12.25 in.  
Depth: 1507 ft., Weight: 24  
Cement: 570 sx, Top: 0 ft., Method: Vis

UPPER ARAPAHOE - 249'

LOWER ARAPAHOE - 510'

FOX HILLS TOP - 1178'  
Deepest DWR w/in 1 mi. = 1280'

FOX HILLS BASE - 1414'

1ST, Size: 4.5", Hole Size: 7.875"  
Depth: 8295', Weight: 11.6  
Cement: 420 sx, TOC: 5550', Method: CALC

Base of Upper Pierre - 2480'

TOC=5540' (CBL)

NIOBRARA - 7194'

TOC=5550' (CALC)  
2-3/8" tubing set at 7968'  
J Sand Perfs 8006'-8042'  
PBTD=8283'  
TD=8295'

**PROPOSED**

**Depth**

**Plug Placement**

0

500'

1000'

1500'

2000'

2500'

3000'

3500'

4000'

4500'

5000'

5500'

6000'

6500'

7000'

7500'

8000'

Perf at 299'. Pump 80 sx  
through perfs to surface.  
Leave 25 sx inside to  
surface.

Perf at 1557', pump 110 sx  
through perfs. Leave at least  
33 sx inside. Tag above  
1130' required

Perf at 2530' & 2430'  
CICR @2440, pump 40  
sx through perfs. Leave  
10 sx on top.

CIBP w/ 2 sx @ 7119'  
(75' above Nio top).

Pressure test casing  
after setting CIBP.

CIBP w/ 2 sx @ 7931'  
(75' above top perf).