

Formerly Reference Well #24

Amoco proposes to drill the well to further develop the Dakota reservoir.

The well will be drilled to the surface casing point using native mud.

The well will then be drilled to the intermediate casing point with a non-dispersed mud system. The protective hole will be drilled with air to the top of the Greenhorn where protective casing will be set.

The production hole will be drilled with a non-dispersed mud system to TD.

Surface Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
400	13.375	61	J-55, ST&C	625 cf Class B, 2% CaCl ₂ + 0.25 #/sx Flocele. 1.18 cf/sx, 15.6 ppg

Hole size 17.5", 125% excess, circulate cement to surface.

Intermediate Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
3268	9.625	36	J-55, LT&C	* 2 stage

* 1st Stg Tail: 586 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite,
+ 0.25 #/sx Flocele.
1.29 cf/sx, 15.11 ppg.

Top of Fruitland Coal 2518 ft
Stage tool depth 2418 ft, 100' above top of Fruitland Coal.

* 2nd Stg Lead: 1537 cf Class B, 65:35:6, 7#/sx salt, 0.375 #/sx Flocele, 5% Calseal,
2% Microbond.
1.8 cf/sx, 13.0 ppg.

* 2nd Stg Tail: 129 cf Class B, 0.4% CFR-3, 0.4% Halad 344, 5 #/sx Gilsonite,
+ 0.25 #/sx Flocele.
1.29 cf/sx, 15.6 ppg.

Hole size 12.25", 120% excess, circulate cement to surface.

Protective Casing:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
7171	7	23	J-55, LT&C	* 2 stage

* 1st Stg Tail: 717 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413, 0.1% SCR 100,
5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele.
1.35 cf/sx, 13.4 ppg.

Top Picture Cliffs 2918 ft Est TCMT 2818
Top of Mesa Verde 4688 ft
Stage tool depth 4188 ft, 500' above top of Mesa Verde.

* 2nd Stg Tail: 296 cf Class B, 50/50 poz, 2% gel, 0.4% Halad 413,
5 #/sx Gilsonite, 5% Microbond HT, 0.4% VersaSet, 0.25 #/sx Flocele.
1.35 cf/sx, 13.4 ppg.

Hole size 8.75", 60% excess, circulate cement to surface.

Production Liner:

Quantity (ft)	Size (in)	Wt. (ppf)	Description	Cement program
712	4.5	11.6	N-80, LT&C	* single stage

* 1st Stg Tail: 124 cf Class G, 35% SSA 1, 1.0% CFR 3, 0.5% Halad 24,
0.25 #/sx Flocele.
1.56 cf/sx, 15.6 ppg.

Estimated Total Depth 7683 ft
Estimated Top of Liner 6971 ft 200' overlap into intermediate casing.

Hole size 6.25", 60% excess, tie cement back.

BY: FRANK SEIDEL/BARRY PEISER 10/11/93
= input depths from form 46 in shaded areas to calculate cement volumes.
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