

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 attached modified 12" 3000 psi blowout preventer will be used. Amoco will complete the Dakota with fracture stimulations.

SURFACE CASING

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cement Program</u>
400'	9-5/8"	36#	K-55 LT&C	316 cf Class B, 2% CaCl ₂ 15.6 ppg, 1.18 cf/sx

Hole size: 12-1/4", 125% excess.
Circulate cement to surface.

INTERMEDIATE CASING

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cement Program</u>
3168'	7"	23#	K-55 LT&C	* 2 stage
* 1st Stg Lead:		338 cf Class B, 65:35:6, 10% Salt, 1/4 pps Cellophane, 0.25% Disp.	13.1 ppg, 1.70 cf/sx	
1st Stg Tail:		177 cf Class B, 0.4 CFR-3, 0.4 HALAD 344,	15.6 ppg, 1.18 cf/sx	
* 2nd Stg Lead:		207 cf Class B, 65:35:6, 10% Salt, 1/4 pps Cellophane, 0.25% Disp.	13.1 ppg, 1.70 cf/sx	
2nd Stg Tail:		118 cf Class B, 0.4 CFR-3, 0.4 HALAD 344,	15.6 ppg, 1.18 cf/sx	

Hole size: 8-3/4", washed out to 9-1/4" hole, 40% excess on openhole
Stage Tool @ 1324' (100' below Ojo Alamo).
Circulate cement to surface.

Production Liner

<u>Quantity</u>	<u>Size</u>	<u>Weight</u>	<u>Description</u>	<u>Cement Program</u>
4559'	4-1/2"	11.6#	N-80 LT&C	* single stage
* Lead:		633 cf Class G, 50/50 poz, 2% Gel, 0.6% Halad-9, 0.2% SCR-100,	13.7 ppg, 1.19 cf/sx.	
Tail:		152 cf Class G, 35% SSA-1, 1.0% CFR-3, 0.5% Halad-24, 0.2% SCR-100,	15.8 ppg, 1.52 cf/sx.	

Hole size: 6-1/4", washed out to 6-3/4", Estimated TD 7627', Liner Top 3068', 25% excess on openhole.