The APD shall include (please attach two copies if for State or Fee surface):

1. ___ A completed and signed Form 3 (application to drill, deepen or reenter). Make sure all blanks are filled and boxes are checked.

2. ___ Contact information and phone number for surface owner.

3. ___ Location plat.

4. ___ Water Rights approval.

5. ___ Estimated geologic markers.

6. ___ Estimated top and bottom of anticipated water, oil, gas, other mineral zones and plans for their protection.

7. ___ Plan for pressure control (BOPE), including schematic and casing test.

8. ___ Description of mud system, including mud weights.

9. ___ Plans for testing, logging and coring.

10. ___ Expected bottom hole pressure, any anticipated abnormal pressures, temperatures, or hazards and plans for mitigation of them.

11. ___ Casing design (size, type, weight).

12. ___ Cement design (type, weight, yield, estimated top, # sacks).

13. ___ Diagram of horizontal or directional well bore path including directional survey plan.

14. ___ Designation of agent if necessary.

15. ___ Bond.

16. ___ Affidavit of Surface agreement.

17. ___ Exception location application (if needed).

An application for directional drilling shall also include:

18. ___ Plat showing surface location, section and lease lines, target location, points along the well bore where owner consent has been obtained.

19. ___ Reason for deviation.

(2/8/2005)