

Scope of Operations

Normal and routine patrol operations require close examination of the production field or the pipeline right-of-way. This can generally be accomplished at an altitude of 500 feet AGL and is often performed at between 500 feet and 700 feet AGL. In the event that a condition or anomaly is observed in the field or along the right-of-way it may be necessary for the pilot to descend below 500 ft AGL to make a closer observation. Descents below 200 ft AGL are prohibited. Operations below 500 ft AGL are governed by the "Low Altitude Waiver" which is covered in this Manual. Patrol flights conducted below 1,000 feet will not exceed 45 degrees of bank and/or 20 degrees of pitch up or down. All maneuvers will be performed without abrupt control inputs or excessive back pressure to minimize the risk of a stall.

Except as provided for in the Low Altitude Waiver no operation may take place at an altitude below that specified in Federal Aviation Regulation 91.119.

In performing aerial patrol the following conditions are generally of interest:

- Digging or boring
- River, Stream or Gully Washout
- Fire or Smoke
- Earthen Landslides/Sinkholes
- Construction or Construction Equipment
- Water or Oil Leaks from Flow Lines
- Tank Battery Overflows
- Oil Leaks at Wellheads and Water Leaks at Injectors
- Leaks at Water Stations and Headers
- Pond/ Pools of Petroleum or Suspicious Liquids
- Deposits of Debris
- Building of Terraces, Ponds or Slush Pits
- Clearing of Utility Right-Of-Way
- Erection of Well Derricks
- Construction of Drainage or Irrigation Channels
- Improvement or Grading of Existing Roads
- Grading for New Roads
- Trees or Debris Collected in Cross Creeks
- Changing Conditions of River Stream Banks
- Oil Slick on Surface of Water
- Unusual Bubbling or Turbulence on Water Surface
- Exposed Pipeline
- Livestock Down
- Unusual Vehicle Activity and Suspicious Personnel
- Cross Traffic not on Established Routes
- Active Survey Crews or Markers
- Mileage Markers Down or Obstructed
- Dead or Dying Vegetation
- Seismic Survey Activity