3160-10
(October 2003)

UNITED STATES
DEPARTMENT OF INTERIOR
BUREAU OF LAND MANAGEMENT

**INSPECTION RECORD – DRILLING**

| Case Number | State | Field Office | Field Area | □ Detailed<br>□ Non-Detailed |
|---|---|---|---|---|
| Well No./API No. | Location (¼¼ S-T-R) | | Spud Date | Status |
| Operator/Representative | | | Rig/Contractor//Representative | |

| Inspection Type | Activity Code | Inspector | Open Date | Closed Date | Office Time | Travel Time | Inspection Time | Trips |
|---|---|---|---|---|---|---|---|---|
| | | | | | | | | |

| | Inspected | NA | Violation |
|---|---|---|---|
| **GENERAL** | | | |
| 1. Is approved drilling permit and plan on location? | | | |
| 2. Is drill site properly identified? | | | |
| 3. Are operations being conducted in a workmanlike manner? *(Detailed list in handbook)* | | | |
| 4. Did Operator report all spills? | | | |
| 5. Are drill-stem tests conducted as required? | | | |
| 6. Is hole deviation within approved tolerances? | | | |
| **SURFACE USE** | | | |
| 7. Is surface use in accordance with approved plan? | | | |
| a. Well site lay-out; | | | |
| b. Pits, sumps, and other ancillary facilities; | | | |
| c. Containment and disposal of solid, liquid, and gaseous wastes; | | | |
| d. Failure to implement dust control; | | | |
| e. Failure to obtain prior approval for additional surface disturbance. | | | |
| **BLOWOUT PREVENTER AND ASSOCIATED EQUIPMENT** | | | |
| 8. Is BOP pressure rating and arrangement at least that approved? Rating _____ | | | |
| 9. Are choke lines and manifold, kill lines, and fill lines properly installed and operarable? | | | |
| 10. Are Master controls installed and functional? | | | |
| a. Remote control installed and functional? | | | |
| b. Hand wheels or autolock? *(Circle appropriate item)* | | | |
| c. Valve installed in closing line of annular preventer? | | | |
| 11. Is pressure accumulator system adequate to activate BOP? Psi rating _____ Fluid Volume _____ | | | |
| a. Nitrogen precharge pressure? Date last checked _____ | | | |
| b. Will reservoir hold two times the usable fluid volume? | | | |
| c. Is power available and turned on to the accumulator pumps? | | | |
| 12. Are ram-type preventers tested to stack working pressure if isolated by test plug or 70 percent of internal yield pressure or casing if BOP Stack is not isolated from casing? _____ psi test pressure | | | |
| 13. Are annular-type preventers tested to 50 percent of working pressure? _____ psi Date Recorded | | | |
| 14. Are BOPE tests run and recorded in drillers log? _____ psi | | | |
| a. When initially installed? | | | |
| b. Whenever a seal subject to test pressure is broken? | | | |
| c. Following related repairs? | | | |
| d. 30-day intervals? | | | |
| 15. Are BOP drills conducted weekly and recorded in drillers log? Time: _____ | | | |
| 16. Is annular preventer activated weekly and recorded in driller's log? | | | |

| BLOWOUT PREVENTER AND ASSOCIATED EQUIPMENT (CONTINUED) | Date Recorded | Inspected | NA | Violation |
|---|---|---|---|---|
| 17. Are pipe rams activated each trip and recorded in driller's log? | | | | |
| 18. Are blind rams activated each trip? | | | | |
| 19. Is the slow pump speed recorded each tour? | | | | |
| 20. Are drill string safety valves and/or inside BOP valves readily available? | | | | |
| 21. □ Is upper kelly cock installed? □ Is lower kelly cock installed? □ Are appropriate kelly cock wrenches available? | | | | |
| a. BOPE shall be installed, used, maintained and tested in a manner necessary to assure well control and shall be in place prior to drilling the surface casing shoe. | | | | |
| **CASING AND CEMENTING** | | | | |
| 22. Was casing and cement in accordance with approved APD (size weight grade depth □ New? □ Used?) | | | | |
| 23. When setting surface casing, did cement circulate to surface? If not, was remedial action taken? | | | | |
| a. Centralizers as required? | | | | |
| 24. When setting casing was cement job conducted as approved? *(Circle applicable type)* Surface Intermediate Production Liner | | | | |
| 25. Were all casing strings pressure tested prior to drill out? _____ psi. | | | | |
| a. Was remedial action taken if test indicated need? Action: _____ | | | | |
| b. Were all pressure tests recorded in drillers log? Date recorded _____ | | | | |
| 26. Were all waiting on cement (WOC) times adequate to achieve a minimum of 500 psi compressive strength at the shoe? | | | | |
| 27. Are casing shoe pressure integrity tests (mud weight equivalency test) performed and recorded in log book? Date recorded _____ Mud weight _____ Depth _____ Pressure _____ | | | | |
| 28. All indications of usable water reported to the authorized officer? | | | | |
| 29. Are wiper plugs used as required? | | | | |
| **MUD PROGRAM** | | | | |
| 30. Is mud system in accordance with approved APD? | | | | |
| 31. Are appropriate quantities of mud on hand? | | | | |
| 32. Is mud monitoring equipment in accordance with approved APD? | | | | |
| a. Electronic/mechanical mud monitoring equipment alarms set and turned on? | | | | |
| 33. Is gas detection equipment installed and operational as per APD? | | | | |
| 34. Are acceptable well control practices being followed while tripping? | | | | |
| 35. Are tourly mud tests (weight & viscosity) recorded in the drillers log? | | | | |
| 36. Is flare system installed? | | | | |
| **SPECIAL OPERATIONS-AIR/GAS DRILLING** | | | | |
| 37. Is rotating head in operating condition? | | | | |
| 38. Is the blooie line installed and the pilot light and igniter installed and operating as per APD? | | | | |
| 39. Is deduster equipment installed? | | | | |
| 40. Is mud circulation equipment available for rapid use *(including mud, reserve pits, and steel tanks)*? | | | | |
| 41. Are engines equipped with spark arresters or water cooled exhaust? | | | | |
| **HYDROGEN SULFIDE OPERATIONS** (500' above or 3 days prior to expecting H2S) | | | | |
| 42. Are the $H_2S$ Drilling Operations Plan and Public Protection Plan, if required, available at the well site? | | | | |
| 43. Are the locations of safe briefing areas as approved, are they designated, and is safe access provided to them? | | | | |
| 44. Is a secondary means of egress available and passable? | | | | |

| HYDROGEN SULFIDE OPERATIONS (CONTINUED) | Inspected | NA | Violation |
|---|---|---|---|
| 45. Is required safety equipment for essential personnel available and operable? | | | |
| a. Portable $H_2S$ and $SO_2$ detectors? | | | |
| b. Self-contained breathing apparatus? | | | |
| c. Explosion proof ventilation fans? | | | |
| d. Other equipment as approved in drilling operations plan? | | | |
| 46. Are initial and weekly training and $H_2S$/well control drills held and recorded on the driller's log? | | | |
| 47. Is permanent $H_2S$ detection and monitoring equipment installed, tested, and operable? | | | |
| 48. Is the wind direction equipment installed and visible? | | | |
| 49. Are the caution/danger signs legible, visible, and posted a safe distance from the location? | | | |
| 50. Are the warning flags, flare gun and flares available? | | | |
| 51. Is the equipment $H_2S$ trimmed as required? | | | |
| 52. Is the remote kill line installed and tested? | | | |
| 53. Is the flare system designed to safely gather and burn $H_2S$? | | | |
| a. Is the flare system equipped with a safe and suitable means of ignition? | | | |
| b. Is the flareline mouth at least 150' from wellbore? | | | |
| c. If noncombustible gas is to be flared, is supplemental fuel available? | | | |
| 54. Are the mud-gas separator, degassers, and rotating head installed and operational (exploratory wells only)? | | | |
| 55. Is the remote controlled choke installed, tested, and operable? | | | |
| 56. Is the pH of freshwater mud 10.0 or above unless otherwise approved? | | | |
| a. Are sufficient quantities of mud additives to scavenge $H_2S$ available at the well site (exploratory wells only)? | | | |
| **OTHER** | | | |
| 57. Other special requirements per approved APD and lease terms. | | | |

58. Description of operations witnessed.

**HIGH PRIORITY INSPECTION REMARKS**