

3160-10
(July 1989)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

INSPECTION RECORD—DRILLING

Lease No./Unit/CA	State	District	Field Area
	NM	RDO (Hobbs ILE)	
Well No.	Location (1/4, 1/4, S-T-R)	Spud Date	Status
Double X Fed. 16 #01	16-24-S-32E	7-31-90	Cementing
Operator/Representative	Rig/Contractor/Representative	Date	Inspector
ORyx Energy Corp/Bogge Arnes	16/Willbros/KD Harper	8-11-90	JACK JOHNSON

GENERAL

	INSPECTED (✓)	NA (✓)	VIOLATION (✓)
1. Is approved drilling permit and plan on location?	✓		
2. Is drill site properly identified?	✓		
3. Are operations being conducted in a workmanlike manner?	✓		
4. Did Operator report all spills?	✓		
5. Are drill-stem tests conducted as required?	✓		
6. Is hole deviation within approved tolerances?	✓		

1 1/4" @ 4975

COMPLIANCE WITH APPROVED SURFACE USE PLAN

7a. Well site lay-out;	✓		
b. PITS, sumps and other ancillary facilities;	✓		
c. Containment and disposal of solid, liquid and gaseous wastes;	✓		
Failure to implement dust control;	✓		
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	5000#	✓		
9. Are choke lines and manifold, kill lines, and fill line properly installed and operable?		✓		
10. Are controls installed and functional?		✓		
a. Remote control on floor?	None at present, will have one @ 8000'	✓		
b. Master controls?		✓		
c. Hand wheels or autolock? (Circle appropriate item.)		✓		
d. Valve installed in closing line of annular preventer?		✓		
11. Is pressure accumulator system adequate to activate BOP? psi rating	5000#	✓		
a. Nitrogen precharge pressure? Date last checked	8/09/90	✓		
b. Reservoir capacity two times usable fluid volume?	335 gal.	✓		
12. Are ram-type preventers tested to stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing?	3500 psi test pressure	✓		
13. Are annular-type preventers tested to 50 percent of working pressure?	3500 psi	✓		
14. Are BOPE tests run and recorded in driller's log?	3000 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 driller's log?		✓		
16. Is annular preventer activated weekly and recorded in driller's log?		✓		
Are pipe rams activated each trip and recorded in driller's log?		✓		
17. Are blind rams activated each trip and recorded in driller's log?		✓		
18. Is the slow pump speed recorded each tour after well has been mudded up?		✓		
19. Are drill string safety valves and/or inside BOP valves maintained in the open position on the rig floor?		✓		
20a. Is upper kelly cock installed? b. Is lower kelly cock installed?		✓		
c. Are appropriate kelly cock wrenches available?		✓		
21. Do all high pressure hoses have safety hobbles?		✓		

(Continued on reverse)

ASING AND CEMENTING

	INSPECTED (✓)	NA (✓)	VIOLATION (✓)
23. Was casing run in accordance with approved APD (size <u>9 5/8</u> , weight <u>36 #</u> , grade <u>K-55</u> , depth <u>4975</u> ?) Centralizers as required? <u>12 centralizers</u>	✓		
24. When setting surface casing, did cement circulate to surface? If not, was remedial action taken?	✓		
25. When setting <u>9 5/8</u> casing, was cement job conducted as approved? If not, was remedial action taken? <u>(yes)</u>	✓	✓	
26. Were all casing strings pressure tested prior to drill out? <u>1500</u> psi	✓		
a. Was remedial action taken if test indicated need? Action <u>8-12-90 - 1" to get Returns</u>	✓		
b. Were all pressure tests recorded in driller's log? Date recorded <u>8-4-90</u>	✓		
27. Were all waiting on cement (WOC) times adequate to achieve a minimum of 500 psi compressive strength?	✓		
28. When required, was pressure integrity test of the casing shoe performed and recorded in the driller's log. Date recorded <u>8-4-90</u>	✓		
29. All indications of usable water reported to the authorized officer?	✓		
30. Are wiper plugs used as required?	✓	✓	

MUD PROGRAM

31. Is mud system in accordance with approved APD?	✓		
32. Are appropriate quantities of mud on hand?	✓		
33. Is mud monitoring equipment in accordance with approved APD?	✓		
34. Is gas detection equipment installed?	✓		
35. Is annulus filled if mud level drops below 100 feet while tripping? <u>Will be</u>	✓	✓	
36. Are mud tests recorded in the driller's log? Date recorded <u>daily</u>	✓		
37. Is flare system installed? <u>Will be</u>	✓	✓	

SPECIAL OPERATIONS—AIR/GAS DRILLING

38. Is rotating head in operating condition?		✓	
39. Is the bleed line installed and the pilot light and igniter installed and operating?			
40. Is deduster equipment installed?			
41. Is mud circulation equipment available for rapid use (including mud, reserve pits and steel tanks)?			
42. Are engines equipped with spark arresters or water cooled exhaust?			

HYDROGEN SULFIDE OPERATIONS

43. Are H ₂ S safety instructions and drilling plan posted?	✓		
44. Are number of locations and access to safe briefing areas adequate?	✓		
45. Is required personnel safety equipment available?	✓		
a. Portable detector?	✓		
b. Self-contained breathing apparatus?	✓		
c. First aid kit?	✓		
46. Were weekly H ₂ S drills held and recorded in driller's log? <u>8-6-90</u> Date last recorded	✓		
47. Is H ₂ S detection and monitoring equipment properly installed with sensors at critical locations? <u>will be</u>	✓	✓	
48. Is wind direction equipment installed?	✓		
49. Are danger signs posted?	✓		
50. Is remote kill line installed?	✓		
51. Is flare system with water installed and a flare gun available? <u>Will be</u>	✓		
52. Is mud/gas separator installed and operable?	✓	✓	
53. Are explosion-proof ventilation fans available for use?	✓		
54. Is one choke valve in the choke manifold remotely controlled from the rig floor?	✓	✓	
55. Is pH of water base mud maintained at 10.0 or above?	✓		
56. If mud is below pH 10.0, are scavenger material additives on hand to treat H ₂ S?	✓		

OTHER

Other special requirements per approved APD and lease terms.

Description of operations witnessed.

REMARKS There will be another 10,000# BOP installed @ 8000' with all necessary equipment for the high pressure which may be encountered in a deeper zone.

AUG 1