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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

GRAND JUNCTION, CO

SUNDRY NOTICES AND REPORTS ON WELLS

This form is to be used for proposals to or for completion of work on wells owned by a person other than the U.S. Geological Survey. For such proposals, see Form 9-330-1.

1. NAME OF OPERATOR ARCO Oil and Gas Co., a
Division of Atlantic Richfield Company

2. ADDRESS OF OPERATOR 707 - 17th Street,
P.O. Box 5540, Denver, Colo. 80217

3. LOCATION OF WELL REPORT LOCATION CLEARLY. See space 17
below Unit N,
AT SURFACE: 560' FSL & 1980' FWL, Sec. 34
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE,
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other)

SUBSEQUENT REPORT OF:

NOTE: Report results of multiple completion or zone
change on Form 9-330-1.

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates,
including estimated date of starting any proposed work; if well is directionally drilled, give subsurface locations and
measured and true vertical depths for all markers and zones pertinent to this work.)*

This notice supercedes our Sundry Notices dated August 31, 1982, on the
subject well.

ARCO now proposes to plug and abandon this well, as per the attached
revised P & A Procedure.

(This is in compliance with the requirements as set forth in a memo-
randum dated September 30, 1981, and a subsequent letter of April 26,
1982, both from the State of New Mexico, Energy and Minerals Depart-
ment, Oil Conservation Division (copies attached to our August 31, 1982
Sundry Notice).

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Stephen Rose TITLE Dist. Prod. Supt. DATE December 30
S. C. ROSE November 1, 1982

Original Signed - Scott L. Ellis

APPROVED BY _____
CONDITIONS OF APPROVAL IF ANY: _____JOHN L. PRICE
District Supervisor

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OIL CON. DIV.
DIST. 3

*See Instructions on Reverse Side

HORSESHOE GALLUP UNIT INJECTION WELLS
PLUGGING AND ABANDONMENT PROCEDURE
(REVISED)

1. MIRU.
2. Release packer and pull tubing and packer out of hole.
3. RIH with tbg open-ended to below the bottom perforation and pump sufficient cement to cover top perforation by 50' inside the casing.
4. POH w/tbg. GIH w/wireline and shoot enough holes in production string opposite 150' above top perforation to allow cement squeezing of zone. (This may be necessary since the original cement job may not have covered the Gallup formation by 50'). Squeeze sufficient cement to place a 100' plug outside the casing. Also, leave a 100' plug inside the casing. If unable to squeeze plug outside the casing, leave a 100' plug inside the casing.
5. POH w/tbg. GIH w/wireline and shoot enough holes in production casing opposite a point 50' below the surface casing shoe to allow squeezing cement.
6. RIH w/tbg open-ended and perform a braden-head squeeze of the perforations. Use sufficient cement for a 100' column behind the casing and a 100' plug inside the casing.
7. POH, cut casing one foot below ground level, place a 30' cement plug inside casing, weld on a blind flange, weld a dry hole marker on the blind flange, fill hole and move off.
8. Rehabilitate location and access road using stipulations supplied by the surface management agency.

NOTE: BOP's will not be needed in most cases because expected reservoir pressure of the Gallup in the area of abandonment is very low. (Estimated at less than 250 - 300 psi bottom-hole.) If pressure does exist on any of the subject wells, bleed it off, install BOP's if needed, and commence with above procedure.

LIST OF WELLS TO BE PLUGGED AND ABANDONED

TABLE I

Horseshoe Gallup Unit
Federal Lease No. 14-08-001-8200
San Juan County, New Mexico.

List of Wells

1. No. 96 C	21. No. 215 D	41. No. 223 D
2. No. 99 C	22. No. 162 D	42. No. 225 D
3. No. 103 A	23. No. 164 D	(State) 43. No. 227 D
4. No. 105 A	24. No. 169 D	44. No. 229 D
5. No. 113 A	25. No. 171 D	45. No. 238 D
6. No. 126 C	26. No. 173 D	(State) 46. No. 240 D
7. No. 130 C	27. No. 175 D	47. No. 248 D
8. No. 132 C	28. No. 180 D	48. No. 250 D
9. No. 135 C	29. No. 182 D	49. No. 259 D
10. No. 137 C	30. No. 184 D	50. No. 261 C
11. No. 139 C	31. No. 186 D	51. No. 263 C
12. No. 141 C	32. No. 192 D	52. No. 269 C
13. No. 143 D	33. No. 194 D	53. No. 274 C
14. No. 145 D	34. No. 196 D	54. No. 275 C
15. No. 148 D	35. No. 201 D	55. No. 73 A
16. No. 150 D	36. No. 203 D	56. No. 199 D
17. No. 152 D	37. No. 205 D	57. No. 211 D
18. No. 154 D	38. No. 207 D	
19. No. 156 D	39. No. 213 D	
20. No. 160 D	40. No. 217 D	

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