

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well ☐ gas ☐ well ☐ other ☐ Injection
2. NAME OF OPERATOR ARCO Oil and Gas Co., a
Div. of Atlantic Richfield Company
3. ADDRESS OF OPERATOR 707 - 17th Street,
P.O. Box 5540, Denver, Colo. 80217
4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17
below.)
AT SURFACE: Unit N,660'FSL & 1980'FWL, Sec. 27
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) X - Set Cement Plug

SUBSEQUENT REPORT OF:

- ☐
☐
☐
☐
☐
☐
☐
☐
☐
☐

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.)*

ARCO hereby asks permission to set a cement plug above the injection interval(1380-1412')in the subject well. This is in compliance with the requirements as set forth in a memorandum dated September 30, 1981, and a subsequent letter of April 26, 1982, both from the State of New Mexico, Energy and Minerals Department, Oil Conservation Division(copies attached.)

Attached is the procedure for setting the cement plug.

Form Approved.
Budget Bureau No. 42-R1424

5. LEASE 14-20-604-1951
14-08-0001-8200
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo - Ute Mtn.
7. UNIT AGREEMENT NAME
Horseshoe Gallup Unit
8. FARM OR LEASE NAME
Horseshoe Gallup Unit "p"
9. WELL NO.
171
10. FIELD OR WILDCAT NAME
Horseshoe Gallup
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 27-31N-16W
12. COUNTY OR PARISH San Juan 13. STATE New Mexico
14. API NO.
None
15. ELEVATIONS (SHOW OF KBB AND WD)
5494' GR U.S. GEOLOGICAL SURVEY
OIL AND GAS OPERATIONS
RECEIVED

SEP 23 1982

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

GRAND JUNCTION, COLORADO

Subsurface Safety Valve: Manu. and Type

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

SIGNED

Stephen Rose
S. C. Rose

TITLE

Dist. Prod. Supt.

DATE

August 31, 1982

(This space for Federal or State office use)

Original Signed - Scott L. Ellis

APPROVED BY

TITLE

JOHN L. PRICE
District Supervisor

DATE

SEP 24 1982

CONDITIONS OF APPROVAL IF ANY:

ATTACHED

HORSESHOE GALLUP UNIT INJECTION WELLS
PLUGGING PROCEDURE

1. MIRU.
2. Release packer and pull tubing and packer out of hole.
3. RIH with tubing open-ended to 40' above the top perforation and pump sufficient cement to set a 100' plug inside the casing (Using light-weight cement).
4. POH, RD, and move off.





STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

MARY KEHOE
SECRETARY

April 26, 1982

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-2434

Arco Oil & Gas Company
P.O. Box 5540
Denver, Colorado 80217

ATTENTION: J. G. Bradshaw

RECEIVED
APR 30 1982
ENGINEERING

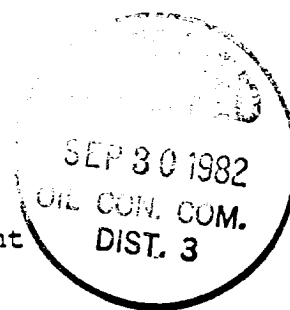
RE: Exception to Rule 705-A for
Injection Wells in the Horseshoe
Gallup Unit, Federal Lease No.
14-08-0001-8200, San Juan County,
New Mexico.

Dear Sir:

Pursuant to your letter of February 18, 1982, requesting exception to Rule 705-A for fifty-seven (57) wells as listed on Table I, the Oil Conservation Division hereby denies both of your requests. You are hereby requested to take prompt action as outlined in the September 30, 1981, Memorandum. (Copy enclosed).

The Oil Conservation Division will not grant an exception to Rule 705-A if a well will not be placed in service within 6 months of the request. For future reference, supportive data for exception to Rule 705-A should include:

1. Proof of mechanical integrity, such as bradenhead tests, tracer logs, or other supportive tests or data.
2. All related OCD Division Order Numbers or Case Hearing Numbers.
3. A schematic of the present injection well including cement tops and quantities thereof.
4. Date each well was shut-in.



If you have any questions regarding this matter, please do not hesitate to contact me at (505) 827-2533.

Sincerely,

JOE D. RAMEY
Division Director

JDR/OS/āp

TABLE I

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

List of Wells

| | | |
|--------------------------|--------------------------|--------------------------|
| 1. No. 26 B | 21. No. 215 D | 41. No. 223 D |
| 2. No. 29 B | 22. No. 162 D | 42. No. 225 D |
| 3. No. 103 A | 23. No. 164 D | 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 | 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 | |



ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

BRUCE KING
GOVERNOR

LARRY KEHOE
SECRETARY

POST OFFICE BOX 20
STATE LAND OFFICE BLDG.
SANTA FE, NEW MEXICO
(505) 827-2434

M E M O R A N D U M

TO: ALL NEW MEXICO INJECTION WELL OPERATORS
FROM: JOE D. RAMEY, DIRECTOR *JDR*
SUBJECT: TEMPORARY ABANDONMENT OF INJECTION WELLS

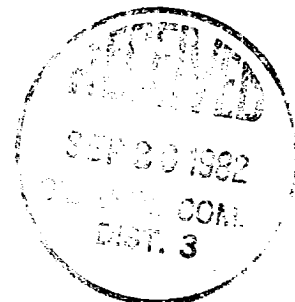
Division Rule 705A provides in part that "no injection well may be temporarily abandoned for more than six months unless the injection interval has been isolated by use of cement or a bridge plug." The Division Director may delay the cement or bridge plug requirement upon a request by the operator and a showing that such well is mechanically sound, that there is a continuing need for the well, and that the well constitutes no threat to underground sources of drinking water.

Division survey programs have found several hundred injection wells which have not been used for at least six months and which do not have the requisite plugs. Based upon these surveys the Division will be moving to enforce Rule 705A in the near future.

Operators should review the status of their injection wells and within the next six months take one of the following actions relative to injection wells which have been shut in for six months or longer:

- (1) Return the well to active operation.
- (2) Plug and abandon the well or place a cement or bridge plug above the injection interval.
- (3) File a workover or plugging plan and schedule with the appropriate Division district office.
- (4) File a request for exception to Rule 705A with the Division Director in Santa Fe.

September 30, 1981
fd/



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
JAN 12 1983

RECEIVED

GRAND JUNCTION, CO

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or plug back to a different layer. Use Form 9-3301 for such proposals.

1. NAME OF WELL: GRAND JUNCTION, CO
2. NAME OF OPERATOR: ARCO Oil and Gas Co., a
Division of Atlantic Richfield Company
3. ADDRESS OF OPERATOR: 707 - 17th Street,
P.O. Box 5540, Denver, Colo. 80017
4. LOCATION OF WELL: REPORT LOCATION CLEARLY. See space 17
below. Unit N,
AT SURFACE: 660' FSL & 1980' FWL, Sec. 27
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:
15. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE.
REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF ☐ ☐
FRACTURE TREAT ☐ ☐
SHOOT OR ACIDIZE ☐ ☐
REPAIR WELL ☐ ☐
PULL OR ALTER CASING ☐ ☐
MULTIPLE COMPLETE ☐ ☐
CHANGE ZONES ☐ ☐
ABANDON* ☒ ☐
(other) ☐

5. LEASE 14-20-604-1951
6. INDIAN, ALLOTTEE OR TRIBE NAME Ute Mtn.
7. UNIT AGREEMENT NAME Horseshoe Gallup Unit
8. FARM OR LEASE NAME Horseshoe Gallup Unit
9. WELL NO. 171
10. FIELD OR WLOCAT NAME Horseshoe Gallup
11. SEC. T. R. M. OR B. AND SURVEY OR AREA Sec. 27-31N-16W
12. COUNTY OR PARISH San Juan 13. STATE New Mexico
14. API NO. None Assigned
15. ELEVATIONS (SHOW OF, KOB, AND WD) 5494' GR

NOTE: Report results of multiple completion or zone change on Form 9-3301.

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.)*

11-1-82

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 memorandum dated September 30, 1981, and a subsequent letter of April 26, 1982, both from the State of New Mexico, Energy and Minerals Department, 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

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL IF ANY: _____

District Supervisor

DATE JAN 12 1983

RECEIVED

JAN 17 1983

OIL CON. DIV.

*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.

OIL & GAS DIV.
DIST. 3

LIST OF WELLS TO BE PLUGGED AND ABANDONED

TABLE I

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

List of Wells

| | | |
|--------------------------|--------------------------|--------------------------|
| 1. No. 101 B | 21. No. 215 D | 41. No. 223 D |
| 2. No. 102 B | 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 G | 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 C | 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 | |