5. LEASE

9. WELL NO.

AREA

14. API NO.

New Mexico

UNITED STATES

DEPARTMENT OF THE INTERIOR 1 & 1983

GEOLOGICAL SURVEY

GRAND HINCTION

| | | 4310 | DEBORTO | ON | WELLE |
|--------|---------|------|---------|-----|---------|
| SUNDRY | NOTICES | AND | REPORTS | Old | AA E TO |

To not use this form for proposals to dtill or to beepen or plug back to a different resenoir, use Form 3–331–2 for such proposals.)

| 1. | D:i | _ | <u> 5</u> 23 | | | |
|----|----------|---|--------------|---|-------|-----------|
| | . بچر پہ | _ | ~e∷ | _ | other | Injection |

- 2. NAME OF OPERATOR ARCO Oil and Gas Co., a Simision of Atlantic Richfield Company
- 707 17th Street, 3. ADDRESS OF OPERATOR F.S. Box 5540, Denver, Colo. 80217
- 4. LICATION OF WELL (REPORT LOCATION CLEARLY, See space 17 below: Unit B.
 - AT SURFACE: 660' FNL & 1980' FEL, Sec. 28 AT TOP PROD. INTERVAL:
 - AT TOTAL DEPTH:

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



None Assigned

14-20-604-1951 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Ute Mtn.

Horseshoe Gallup Unit

148

Horseshoe Gallub

11. SEC., T., R., M., OR BLK. AND SURVEY OR

Horseshoe Gallup Unit

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

10. FIELD OR WILDCAT NAME

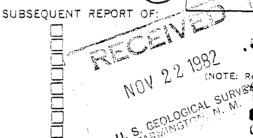
Sec. 28-31N-16W

San Juan

12. COUNTY OR PARISH: 13. STATE

15. ELEVATIONS (SHOW DF, KDB, AND WD) 5742' GR

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)





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 _ 18. I hereby certify that the foregoing is true and correct 1982 TITLE Dist.Prod.Supt.DATE SIGNED (This space for Federal or State office use) APPROVED a Priginal Signed - Scott L. Ellis JOHN L. PRICE LITLE -District Supervisor CONDITIONS OF APPROVAL IF ANY: JAN 1 71983

OIL CON. DIV.

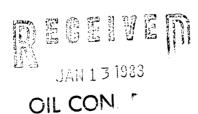
DIST. 3

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. PIH 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. POR, cat 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.



DIST