| Form 31@0 (October 1990) |
|-----------------------------|
| WELL |

SUBMIT IN DUPLICATE

| (October 1990) | | | UNITED | OMB NO. 1004-0137 | | | | | |
|------------------------|----------------|--|-----------------------|----------------------------|---------------------|---|--|-------------------------------|--|
| | | DEF | PARTMENT O | F THE INTERI | OR | structions on reverse side) | | ecember 31, 1991 | |
| | | E | BUREAU OF LAN | ID MANAGEMENT | DEAL | | 5. LEASE DESIGNATION | | |
| | | | | | | <u> </u> | NMSH-U/841 | | |
| | | LETION OR | | ETION REP | ORI AND | LOG" | o. II IIIDDAI, ALLOTTI | L ON INIDE IVANIE | |
| 1a. TYPE OF | WELL: | OIL WELL | GAS X | DRYOther | 67 05 6 1 | ∟_₽N 1: 52 L | | | |
| b. TYPE OF | COMPLE | TION: | | | | | 7. UNIT AGREEMENT | NAME | |
| - TIPE OF | NEW [7 | WORK DEEP- | PLUG [| DIFF. | Title (Tarabal) | notoo NAA | 8. FARM OR LEASE N | AME, WELL NO. | |
| | WELL | OVER EN | BACK L | RESVROther | 170 FBILL | <u>ngt</u> on, NM - [| | _ | |
| 2. NAME O | E ODERAT | TOP. | | · | | | Hardie A #11 9. API WELL NO. | <u> </u> | |
| | | ON RESOURCES C | IL & GAS COMP | PANY | | 1975 July | 30-045-311 | 39 | |
| | | LEPHONE NO. | | | 40.0° | 100000 | 10. FIELD AND POOL | | |
| PC | Box 428 | 9, Farmington, NM | 87499 (505) | 326-9700 | | A TOA | Blanco Mesa | | |
| 4. LOCATIO | ON OF WE | LL (Report location cle | arly and in accorda | ance with any State re | equirements)*Di | C 2000 | | R BLOCK AND SURVEY | |
| At surface | e | 930'FNL, 2160'I | -WL | | | · 4003 = | OR AREA | | |
| At top pro | od. interval | reported below | * * | | Marian (m. 1944) | N C | | | |
| •,• | | | | | 1 | ON C | 1 | | |
| At total de | epth | | | | Λ | 14.8 A | Sec. 26, T-2 | 9-N, R-8-W | |
| • | | | 177 | 4. PERMIT NO. | DATE ISSUE | 0 0.7 | 12. COUNTY OR | 13. STATE | |
| | | | | | | منتظما ويرور | PARISH | | |
| 15. DATE SPU | | | 147 DATE CO | OMPL. (Ready to prod.) | | منهلا والأراال | San Juan | New Mexico | |
| 15. DATE SPU | | DATE T.D. REACHED 10/30/03 | 12-5 | | ٠ | 18. ELEVATIONS (DF, RK 6361' GR, 637 | | 19. ELEV. CASINGHEAD | |
| 20. TOTAL DE | | | ACK T.D., MD STVD | 22. IF MULTIPLE CO | MPL., | 23. INTERVALS | ROTARY TOOLS | CABLE TOOLS | |
| | | | • | HOW M | ANY" | DRILLED BY | | | |
| 5628' | | 5623' | TOU TOO DOTTOU | 11415 (145 4115 F) (145 | | | 0-5628' | | |
| 24. PRODUCT | ION MIER | VAL (S) OF THIS COMPLE | HON-TOP, BOTTOM, | NAME (MD AND TVD) | | | 25. WAS DIRE SURVEY I | | |
| | 523' Mesa | | | | | | | | |
| 26. TYPE ELE CBL-CC | | OTHER LOGS RUN | | | | | 27. WAS WELL CORED No | | |
| 28. | | | | CASING RECORD | Report all strings | set in well\ | 1 110 | | |
| CASING SIZ | E/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD | | | MENT, CEMENTING RECO | RD | AMOUNT PULLED | |
| 9 5/8" | H-40 | 32.3# | 147 | 12 1/4" | 141 cu.ft. | | | | |
| 7" | J-55 | 20# | 3338' | 8 3/4" | 995 cu.ft. | | | | |
| | | <u> </u> | | | | | ···· | | |
| 29. | | LINER R | ECORD | | 30. | | TUBING RECOF | | |
| SIZE | TOP (MI | | SACKS CEMENT | SCREEN (MD) | SIZE | DEPTH SET | | PACKER SET (MD) | |
| 4 1/2" | 3188' | 5627 | 337 cu.ft. | | 2 3/8" | 5490' | | | |
| 555555 | TOW BEGG | | | | L | | | | |
| | | RD (<i>Interval, size and nun</i> , 4098, 4102, 4105, 41 | • | 32. 124 DEPTH INTE | | D, SHOT, FRACTURE, | CEMENT SQUEEZE OUNT AND KIND OF MAT | <u> </u> | |
| | | , 4182, 4474, 4477, 44 | | | INVAL (MD) | | | el, 200,000# 20/40 Arizona sd | |
| | | 4643, 4651, 4679, 46 | | | | 1149 bbl sik wtr, 10 | | | |
| | • | , 4782, 4834, 4837, 49 | | | | 1250 bbi sik wtr, 10 | 0,000# 20/40 Arizo | na sd | |
| 5061, 5064, 50 33. | 068, 5071 | 5108, 5113, 5245, 52 | 48, 5254, 5258, 52 | | nt'd on back | l | | | |
| DATE FIRST PR | ODUCTION | PRODUC | CTION METHOD (Flow | ving, gas lift, pumping—si | |)) | WELL STATUS | (Producing or shut-in) | |
| | | | Flow | ring | | | SI | | |
| DATE OF TEST | | HOURS TESTED | | ROD'N FOR OIL-E | BL | GAS-MCF | WATER-BBL | GAS-OIL RATIO | |
| 12-5-03 | | 1 1 | 2" " | EST PERIOD | | 726 MCF/D Pitot G | auge | | |
| FLOW, TUBING | PRESS. | CASING PRESSURE | CALCULATED | OILBBL | GAS-MCF | WATER-BE | | OIL GRAVITY-API (CORR.) | |
| · SI 420 | | CP 390 | 24-HOUR RATE | • | 726 MCF/D | . [| | | |
| | ON OF GAS | (Sold, used for fuel, vente | ed, etc.) | | 1 | | TEST WITNES | SED BY | |
| , | | To be sold | | | | | | | |
| 35. LIST OF A | TTACHMEN | | | | | | ACCEPTE | D FOR RECORL | |
| 36 I hereby on | rtify that the | None foregoing and attached in | formation is complete | and correct se determine | ed from all mediate | records | VAOPLIE | n i au ucant | |
| | any unature | ionogoning and attached it | | and correct as determin | er uom an svansbie | : IOCOIUS | 4 | 4 | |

*(See Instructions and Spaces for Additional Data on Reverse Side) **Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department of agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Senior Staff Specialist

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

GEOLOGIC MARKERS

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | | ТОР | |
|----------------------------|-------|-------------|--|--|---------------|---------------------|
| iw | | | | NAME | MEAS, DEPTH | TRUE VERT. DEPTH |
| Ojo Alamo | 2040′ | 2136' | White, cr-gr ss. | and the second s | | |
| Kirtland | 2136' | 2713' | Gry sh interbedded w/tight, gry, fine-gr ss. | | | |
| | | | | Ojo Alamo | 2040' | |
| Fruitland | 2713' | 3003' | Dk gry-gry carb sh, coal, grn silts, light- | Kirtland | 2136′ | 4 |
| | | | med gry, tight, fine gr ss. | Fruitland | 27131 | |
| Pictured Cliffs 3003' | | 3616' | Bn-Gry, fine grn, tight ss. | Pic.Cliffs | 3003' | |
| | | | | Huerfanito Bent | 3616' | |
| | | | | Chacra | 3960' | |
| Huerfanito Bentonite*3616' | | 3960' | White, waxy chalky bentonite | Cliff House | 4637' | |
| | | | | Menefee | 4739' | |
| Chacra | 3960' | 4637' | Gry fn grn silty, glauconitic sd stone | Pt.Lookout | 5243' | |
| | | | w/drk gry shale | | | |
| Cliff House | 4637' | 4739' | ss. Gry, fine-grn, dense sil ss. | | | |
| | | | | Perforations co | ontinued: | |
| Menefee 4739 | | 5243' | Med-dark gry, fine gr ss, carb sh & coal | 5278, 5284, 528 | 88, 5295, 530 | 01, |
| | • | | | 5304, 5307, 532 | 24, 5327, 53 | 30, |
| Point Lookout | 5243' | 5628' | sh breaks in lower part of formation | 5344, 5367, 538 | | |
| Juliu Bookoud Gara | | - - | | 5503, 5506,5 51 | | |

| *Huerfanito Benton | nite is th | e legal top | of Mesa Verde in New Mexico (North of the Chacra line) | |
|--------------------|------------|-------------|--|---|
| 1 | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | * |
| | | | | |
| | | : | | |
| | | | | |