1a. TYPE OF WORK

b. TYPE OF WELL

SUBMIT IN TRIPLICATE*

| UNITE | D STA | TES | |
|--------------|-------|-------|--------------|
| DEPARTMENT (| OF TH | E INT | ERIOR |

| rm 9-331 C May 1963) | | | (Other instruc | tions on | Form approv Budget Burea | u No. 42-7 1425. | |
|---|---|---|--|------------------|---|-------------------|--|
| | | TED STATES | reverse si | | 3.745 | 2151 | |
| DEPARTMENT OF THE INTERIOR | | | | | 5. LEASE DESIGNATION AND SERIAL NO. | | |
| | GEOLO | GICAL SURVEY | | | 14-20-603- | | |
| APPLICATION | FOR PERMIT | TO DRILL, DEEPE | N, OR PLUG B | ACK | 6. IF INDIAN, ALLOTTE | E OR TRIBE NAME | |
| TYPE OF WORK | | | D1 11 2 2 1 1 | | Navajo 7. Unit agreement i | VALET | |
| DRII | LL 🕱 | DEEPEN | PLUG BAC | .K ∐ | | | |
| OIL GA | | SIN ZON | GLE MULTIPE | LIE | 8. FARM OR LEASE NA | Gallup Unit | |
| NAME OF OPERATOR | CLLOTHER | ZUN | E ZONE | | Horseshoe i | Gallup Unit | |
| Atlantic Rich | nfield Company | | | <u> </u> - | 9. WELL NO. | -urrep onre | |
| ADDRESS OF OPERATOR | | | | | 285 | | |
| | | 60 Lincoln St., | | 80203 | 10. FIELD AND POOL, | OR WILDCAT | |
| At surface | | in accordance with any St | _ | - | Horseshoe Gallup | | |
| Unit ''G'' - 26 | 605' f/North & | 2580' f/East lin | es Sec. 32 | | 11. SEC., T., R., M., OR AND SURVEY OR A | BLK. REA | |
| At proposed prod. zone | • | | | | Sec. 32-311 | v-16₩ | |
| DISTANCE IN MILES A | ND DIRECTION FROM NEA | REST TOWN OR POST OFFICE | • | | 12. COUNTY OR PARISE | | |
| Approx. 3 mil | es East and 7 | miles NE f/Shipr | ock. Hew Hexid | a | San Juan | N. Mexico | |
| DISTANCE FROM PROPOSE | SED* 2580' f/Sec | 32 ne 16. No. | OF ACRES IN LEASE | 17. No. OF | ACRES ASSIGNED | 1 | |
| PROPERTY OR LEASE LI (Also to nearest drig. | INE, FT. 2675' 1/7 . unit line, if any) | r.5 line | 2644.14 | 10 11 | 40 Acres | | |
| DISTANCE FROM PROPO TO NEAREST WELL, DE | OSED LOCATION* | 10x /4/ | POSED DEPTH | 20. ROTAR | Y OR CABLE TOOLS | | |
| OR APPLIED FOR, ON THE | S LEASE, PT. 58 7/8 | le11 #43 | 1300' | | Rotary | | |
| ELEVATIONS (Show whe | ther DF, RT, GR, etc.) | Level, Ungraded | İ | | 22. APPROX. DATE W 6-28-74 | ORK WILL START* | |
| | | | | | 6-20-74 | | |
| | | PROPOSED CASING AND | CEMENTING PROGRA | . <u></u> | | | |
| SIZE OF HOLE | 81ZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | 750 00 | QUANTITY OF CEME | | |
| 6-3/4" | 4-1/2" | 10.5/ 6 11.6/ | T.D. | 250 \$2 | (cement to | surrace) | |
| | | - | | | • | | |
| to surface; will be perfo | will drill 6-3/ and cement w/su prated, treated | l set 7-5/8" surf '4" hole to T.D. ifficient cement i If necessary, a vation Commission | and log; If pr to protect all and well comple | roductive zones. | re, set 4-1/2 | produc- | |
| | Certified Loc and 7 Point C | cation Plat, Deve Filling Plan | lopses MILIV | From | ace Use w/4 : | at tach . , | |
| ABOVE SPACE DESCRIBE e. If proposal is to oventer program, if any | and 7 Point in a proposed Program: If drill or deepen direction | proposal is to deepen or plally, give pertinent data or | MAY 3 1 OIL CON. ug back, bye da 16 T | 1974 COM. | ctive sone and propos and true vertical dept | ed new productive | |
| ABOVE SPACE DESCRIBE e. If proposal is to oventer program, if any signed | PROPOSED PROGRAM: If drill or deepen direction | proposal is to deepen or plally, give pertinent data or | MAY 3 OIL CON ug back, bye da 316 T | 1974 COM. | ctive sone and propose and true vertical dept | ed new productive | |
| ABOVE SPACE DESCRIBE e. If proposal is to eventer program, if any SIGNED SIGNED (This space for Feder | PROPOSED PROGRAM: If drill or deepen direction | proposal is to deepen or plally, give pertinent data or | MAY 3 OIL CON ug back, tye da 16 1 a subsurface reations ar | 1974 COM. | ctive sone and propose and true vertical dept | ed new productive | |

| OIL GAS WELL WELL | | | SINGLE ZONE | MULTIPLE ZONE | | OR LEASE NAM | ariup onit |
|--|---------------------------------------|--|----------------------|------------------|------------------------------|---------------------|---------------------------------------|
| 2. NAME OF OPERATOR | LL COLINE | | 20112 | DON B | Ho | rsashoe G | allup Unit |
| Atlantic Rich | field Company | 1 | | | 9. WELI | | arrep ont |
| 3. ADDRESS OF OPERATOR | | | | | | 285 | |
| 501 Lincoln T | ower Bldg., 1 | lδ60 Lincoln : | St., Denver. | . Colo. 89 | 0203 10. FIET | LD AND POOL, O | R WILDCAT |
| 4. LOCATION OF WELL (Rep | | | | | | rseshoe G | allun |
| At surface Unit ''G'' - 26 | 051 f/North | 25801 f/Fast | t lines Sec. | 32 | 11. sEC | ., T., R., M., OR F | BLK. |
| At proposed prod. zone | · · · · · · · · · · · · · · · · · · · | 2,000 1,000 | | .) | AND | SURVEY OR AR | ·EA |
| Same | | | | | Se | c. 32-31N | -16W |
| 14. DISTANCE IN MILES AS | ND DIRECTION FROM N | EAREST TOWN OR POST | OFFICE* | | 12. cou | NTY OR PARISH | 13. STATE |
| Approx. 3 mil | es East and ? | miles NE f/S | Shiprock, He | w Hexico | Sar | n Juan | N. Hexico |
| 15. DISTANCE FROM PROPOS LOCATION TO NEAREST PROPERTY OR LEASE LII (Also to nearest drig. | ED' 2580' f/S | c 32 line | 16. NO. OF ACRES 1 | N LEASE 1 | 7. NO. OF ACRES TO THIS WELL | | |
| 18. DISTANCE FROM PROPO- TO NEAREST WELL, DRI OR APPLIED FOR, ON THIS | | Approx 747' Well #43 | 19. PROPOSED DEPTI | H 2 | O. ROTABY OR CAL | | |
| 21. ELEVATIONS (Show whet | _ | | | | 22. Al | PROX. DATE WO | RK WILL START* |
| | 5356' Grou | nd Level, Ungi | raded | | | 6-28-74 | |
| 23. | | PROPOSED CASING | AND CEMENTIN | G PROGRAM | | | |
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOO | OT SETTING | рертн | OUA | NTITY OF CEMEN | |
| 11-1/2" | 7-5/8' | 26.4/ | 150 | | 150 sx (cei | | |
| 6-3/4" | 4-1/2" | 10.5/ 6 11. | | | 250 sx | | |
| will be perfo Re: New Mexi Attachments: | co OII Conse | rvation Commis ocation Plat, Urilling Plan | Developmen | NO. R-22 | 10-A Porface 1 | 0se w/4 a | ttach., |
| IN ABOVE SPACE DESCRIBE zone. If proposal is to d | PROPOSED PROGRAM: | If proposal is to deepe | en or plug back, bly | IL CON. | nt Toductive so | | ed new productive as. Give blowout |
| preventer program, if any | | | | | | | |
| 24. SIGNED <i>WWW</i> | allio > | | Dist. Proc | i. & Drlg | | 5-2 | 9-74 |
| (This space for Federa | al or State omce use) | | | | | | |
| PERMIT NO. | | | APPROVAL DA | TE | | | |
| 6 | | | - · - · · | 4 | | 30 Jan 1920 1 | |
| APPROVED BY | | TITL | Æ | l c | | DATE | |
| CONDITIONS OF APPROVA | L, IF ANY: | | | | | Š | |
| | | | | • | MAA 09 1 | | |
| | | | | | | į | |
| | | *See Instruc | tions On Revers | e Side 🚻 🖺 | . eterreeru | STREY | |

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

-MOO

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section

| THE AT | LANTIC RIC | HFIELD COMPANY | HORSESH | OE GALLUP UNIT | 285 |
|--|------------------------------|--|----------------------|----------------------------|--|
| from Letter G | 32 | 31 NORTH | 16 WEST | SAN JUAN | |
| tenual in otalie to 2605 In una Lyvel Eller | feet from the | NORTH LEE TO | | EAST | 16. |
| 5356 | ì | hep - 011 | Horsesh | es Gallup | 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1. Outline | the acreage dedi | cated to the subject wel | ll by colored pencil | or hachure marks on the p | lat below. |
| | than one lease and royalty). | is dedicated to the well, | outline each and id | entify the ownership there | of (both as to working |
| | | different ownership is do unitization, force-poolin | | have the interests of al | l owners been consoli- |
| Yes | No If | answer is "yes;" type of | consolidation | Unitiestics | |
| If answer | r is "no." list th | e owners and tract descr | iptions which have a | ctually been consolidated | I. (Use reverse side of |
| | if necessary.) | gned to the well until all | interacto have been | | atata anta |
| | | se) or until a non-standard | | | |
| sion. | | | | | |
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| | | | t i | | fy that the information con- |
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7 POINT DRILLING PLAN

Horseshoe Gallup Unit - Well # 285

1. Surface Casing: 7-5/8'' OD, $26.4\frac{4}{5}$, K-55, LT&C, SH, 150'

2. Casing Head: 7-5/8" x 10", Ser. 600 (2000# MF, 4000# T) Oct C-22, or equivalent. (2-2" !0 outland 10-0000 to value

3. Intermediate Casing: None

4. Blowout Preventers: Type - Ram Type

Series - Ser. GOO (2000# WP, 4000# T) or greater
No. of Rams - Two; one blind ram and one pipe ram for
4-1/2" OD drill pipe. No other size drill
pipe is anticipated to be used.

Manufacturer - Cameron or Shaffer, hydraulic operated Fill, kill and choke line will be 2000# WP, or greater,

connected below rams on BOP

Blowout Equipment will be pressure tested to 800 psi before drilling out of casing and operational check will be made daily

5. Auxilliary Equipment: Kelly cock

Drilling Head - Shaffer Type 50, or equivalent Sub with full opening valve on floor for use when Kelly not in hole

6. Anticipated Bottom Hole or Maximum Expected Pressure: 800#

7. Drilling Fluid: Surface - Water & gel w/lime to maintain clean hole for running casing

Below Surface - Water w/necessary gel and chemicals to maintain drillable hole. 9.0^{\pm} ppg, viscosity as required, 10^{\pm} water loss, LCM if required



12 POINT - DEVELOPMENT PLAN FOR SURFACE USE

Horseshoe Gallup Unit - Well # 285

- 1. Existing Roads: Attached are the Chimney Rock (1934), Heifer Point (1963) and Waterflow (1963) topographic maps, and a Unit Area "Road Detail" map.
- 2. Planned Access Roads: The main access road extends northeastward from a "turn-off" from Highway 550, approximately 3 miles east from Shiprock, New Mexico. This road is marked in "red" on the attached Chimney Rock topographic map to the south line of Section 31-31N-16W. From this point, please refer to the attached "hoad becalin". Nobe construction will be hope to a minimum and will consist of only roads from existing lease roads to the proposed location. Roads to be constructed are highlighted in "yellow" on the "Road Batail" map.
- 3. Existing Wells: All known wells are shown on both the "Road Detail" and "Line Detail" maps.
- 4. Lateral Roads to Well Locations: Lateral roads from existing lease roads to proposed locations are shown on the "Road Detail" map, highlighted in "yellow".
- 5. Location of Tank Batteries and Flow Lines: The attached "Line Detail" map shows the location of existing tank batteries, flow lines and injection lines. Proposed location and flow lines are marked in "yellow".
- 6. Location and Type of Water Supply: Water supply for drilling will be from Water Supply Well #2-W (Green on "Line Detail" map). Water for cementing operations will be from ditch at turnoff of access road from Highway 550 (Green on topography map).
- 7. Methods for Handling Waste Disposal: Cuttings to be disposed of in reserve pit, a burn pit to be used for disposal of trash, garbage, etc., and covered on cleanup of location.
- 8. Location of Camps: None.
- 9. Location of Airstrips: None.
- 10. Rig Layout: Per the attached drawing. Also see No. 12. OIL CON. COM.
- 11. Restoration of Surface: Upon completion of drilling operations, the disturbed surface area will be restored as near as practical to its original contours. If sufficient top soil is encountered, it will be stockpiled for restoration of surface. Restoration will be to the satisfaction of the United States Geological Survey.
- 12. The location is relatively flat with only a very slight slope from NW to SE. Very little dirt work will be required on this location. Though the surface is not rocky, native grasses are very sparse, no trees. The surrounding area is comparable and any disturbance to wildlife will be only temporary. With the restoration of surface, surface damage will be minimal.

