| Form 3160-3 (July 1992) P.O PROPERTY NO. 19680 TE* FORM APPROVED OMB NO. 1004-0136 DEPARTMENT OF POOL CODE 17644 5. LEASE DESIGNATION AND BEBIAL NO. BUREAU OF LAN EFF. DATE 10/29/96 5. LEASE DESIGNATION AND BEBIAL NO. APPLICATION FOR PERMAPI NO. 30-025-33653 6. IF INDIAN, ALLOTTEE OR TRIBE NAME I.a. TYPE OF WORK DEEPEN L 7. UNIT AGREEMENT NAME DRILL & OTHER SINGLE MULTIPLE 8. FARM OR LEASE NAME, WELL NO | • | ~ N | N OPER. OGR | DNO. 11.7. | 201 | | |
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| A. decimation matricester (915) 683-5534 #################################### | | rau Tha | | | | Diamond Tail "23" Fee | |
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| The status of control on the status of control | (Also to nearest dr. | lg. unit line, if any) | | | | - • | |
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| 17. 1/2" K=55, 13.3/8" 48# 550' 500 sx. circ'd to surface. 12. 1/4" K=55, 8.5/8 24.8.32 4850' 1250 sx. Circ'd. to surface. 7. 7/8" K=55, 8.5/8 24.8.32 10350' 650 sx. Est. TOC 7500' Drill 17. 1/2" hole to 550'. Run & set 550' of 13.3/8" 48# , K=55, 8rd ST&C csg. Cmt. w/300 sx. Cl. "C" Light w/½# flocele/sx + 5# Gilsonite/sx + 2% cac1, tail in with 200 sx Cl. "C" + 3% Cac1. Circ. to surface. Drill 124" hole to 4850'. Run and set 2550' of 8.5/8" 32#, K=55, 8rd, ST&C 2300' of 8.5/8", 24#, K=55, 8rd ST&C csg. Cmt. w/100 sx Cl. "C" Light + ½ flocele/sx + 5# Gilsonite/sx + 8% salt + 2% Cac1, tail in with 250 sx Cl. "C 2% cac1. Circ. cmt. to surface. Drill 7. 7/8" hole to 10,350'. Run & set 3200' of 5.1/2, N=80, 17#, 8rd, LT&C csg Cmt. w/400 sx. Cl. "H" Light + ½# flocele/sx + 1# Gilsonite/sx + 5% salt, ta in with 250 sx. Cl. "H" + 5% salt + .6% Halad 9 + .6% Halad 322. Est. TOC 7500'. NABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to despen give data on present productive zone. If proposal is to drill or despen give data on present productive zone. If proposal is to drill or despen give data on present productive zone. If proposal is to drill or despen give data on present productive zone. If proposal is to drill or despen give data on spresent productive zone. If proposal is to drill or despen give data on | 23. | PR | POSED CASING AN | D CEMENTING PROG | RAM | <u></u> | |
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| CONDITIONS OF APPROVAL IF ANY: APPROVED (ORIG. SGD.) RICHARD L. MANUS IIILE <u>Area Manager</u> Date UCT 2 2 1996 | | 1 | a Stipusations | ADDDOVAL DATE | | | |
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DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410 State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised February 10, 1994 Instruction on back Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| AFI | Number | | Pool Code | | Pool Code Pool Name | | | | | | |
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| 30-025. | - 331 | 53 | 17 | 644 | | Diamondtail Bone | | | Springs | | |
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PENWELL ENERGY INC. Diamondtail "23" Federal #2 1980' FNL & 660' FEL Sec. 23, T-23-S, R-32-E, Lea County, New Mexico.



| | | 2000' | 0 | 2000. | 4000 |) Feet |
|-----------------------|--------------------------|------------------|-------|---------|------|--------|
| BASIN SURVEYS P.O. BO | X 1786-HOBBS, NEW MEXICO | | | | | |
| W.O. Number: 6289 | Drawn By: S.C. Nichols | Survey Date: 7-2 | 24-96 | Sheet 1 | of 1 | Sheets |

APPLICATION TO DRILL

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PENWELL ENERGY, INC. DIAMOND TAIL "23" FEDERAL 2 1980' FNL & 660' FEL SECTION 23, T23S, R32E LEA COUNTY, NEW MEXICO

- 1. LOCATION: 1980' FNL & 660' FEL, Sec. 23, T23S, R32E, Lea Co. NM.
- 2. ELEVATION ABOVE SEA LEVEL: 3710'.
- 3. GEOLOGIC NAME OF SURFACE FORMATION: Quaternery Aeolian Deposits
- 4.. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using mud for the circulation medium.
- 5. PROPOSED DRILLING DEPTH: 10,350'.
- 6. ESTIMATED GEOLOGICAL MARKER TOPS:

| Lamar | 5000' | Lower Brushy Canyon | 8500' |
|---------------|-------|------------------------|-------|
| Bell Canyon | 5050 | Avalon Sand | 8950' |
| Manzanita | 6150' | First Bone Spring Sand | 9900' |
| Brushy Canyon | 7500' | | |

7. POSSIBLE MINERAL BEARING FORMATION:

| OIL | |
|---------------------|------------------------|
| Brushy Canyon | Avalon Sand |
| Lower Brushy Canyon | First Bone Spring Sand |

CASING PROGRAM:

| Hole Size | Interval C | DD Csg | Weight | Thread | Collar | Grade | Cond. |
|-----------|------------|--------|----------|--------|--------|------------|-------|
| | 0-550'*- | | | | | | |
| 12 ¼" | 0-4850' | 8 5/8" | 24 & 32# | 8-R | ST&C | K-55 | New |
| 7 7/8" | 0-10350' | 5 1⁄2" | 17# | 8-R | LT&C | N-80 & J55 | New |

PENWELL ENERGY, INC. DIAMOND TAIL "23" FEDERAL 2 APPLICATION FOR PERMIT TO DRILL

PAGE 2

9. CASING CEMENTING & SETTING DEPTH:

| 13 3/8" | Surface | Set 550' of 13 3/8" K-55, 48# ST&C casing. Cement with 500 sacks Class "C" + additive, Circulate cement to surface. |
|---------|--------------|---|
| 8 5/8" | Intermediate | Set 4850 of 8 5/8" K-55 32 & 24# ST&C casing. Cement with 1000 sx "C" Lite + additives tail in with 250 sx Class "C" Premium + additives. Circulate cement to surface. |
| 5 1⁄2" | Production | Set 10350' of 5 1/2" 17#, N-80 & K-55 17# LT&C casing. Cement with 400 sx Class "H" Lite + additives. Tail in with 250 Sx Class "H" + additives. Estimated top of cement @ 7,000'. |

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E". A Blow-out Preventer (no less than 900 Series 3000 PSI working pressure) consisting of double ram type preventer with bag type preventer. Units will be hydraulically operated. Exhibit "E-1" Choke Manifold and Closing Unit. Blind rams on top, pipe rams on bottom to correspond with size of drill pipe in use. BOP will be nippled up on 13 3/8" casing and remain on well until casing is run and cemented. BOP will be tested as well as choke manifold. BOP will be worked at least once each day while drilling & blind ram will be worked on trips when no drill pipe is in hole. Full opening stabbing valve and upper kelley cock will be utilized. Anticipated BHP 2800 PSI and 125° BHT.

11. PROPOSED MUD CIRCULATING SYSTEM:

| DEPTH | MUD. WT. | MUD VISC. | FLUID LOSS | TYPE MUD |
|-------------|----------|-----------|--------------|--|
| 40'-550' | 8.4 8.8 | 28-34 | NC | Fresh water spud mud, use paper for seepage control. |
| 550-4850' | 10-10.8 | 28-30 | NC | Brine water lime for pH control & paper for seepage. |
| 4850-9000' | 9.4-10 | 28-32 | NC | Cut Brine lime for pH control and paper for seepage. |
| 9000-10350' | 9.4-9-8 | 32-38 | 10cc or less | Mud up with Drispac add starch for water loss. |

Sufficient mud materials to maintain mud properties, meet lost circulation and weight increase requirements will be kept at wellsite at all times. In order to run casing and log well viscosity may have to be raised and water loss may have to be lowered.

PENWELL ENERGY, INC. DIAMOND TAIL "23" FEDERAL #2

APPLICATION FOR PERMIT TO DRILL

PAGE 3

12. TESTING, LOGGING AND CORING PROGRAM:

- A. A two man mud logging unit on hole from 4700' to T.D.
- B. Cores to be taken (sidewall) in Delaware where shows occur from 5000-9000' and in Bone Spring from 9950-10200'.
- C. Open hole logs: CNL-LDT-Gamma Ray from TD to base of surface casing, AIT or Dual Laterlog MSFL from TD to base of surface casing with Gamma Ray Neutron back to surface.
- D. DST'S will be taken as shows dictates.

13. POTENTIAL HAZARDS:

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No abnormal pressures or temperatures are expected. Hydrogen Sulfide gas may be encountered, H_2S detectors will be in place to detect any presence. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used. Estimated BHP 2800 PSI, estimated BHT 125°.

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after BLM approval of APD. Anticipated spud date is September 25, 1996. Drilling is expected to take 20 - 25 days. If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15. OTHER FACETS OF OPERATIONS:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals. The Bone Spring pay will be perforated and stimulated. The well will be swab tested and potentialed as an gas well.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

- 1. All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety safety instructor to the following:
 - A. Characteristics of H_2S

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- B. Physical effects and hazards
- C. Proper use of safety equipment and life support systems.
- D. Principle and operation of H₂S detectors, warning system and briefing areas.
- E. Evacuation procedure, routes and first aid.
- F. Proper use of 30 minute pressure demand air pack.

2. H₂S DETECTION AND ALARM SYSTEMS

A. H₂S detectors and audio alarm system to be located at bell nipple, end of blooie line (mud pit) and on derrick floor or doghouse.

3. WINDSOCK AND/OR WIND STREAMERS

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock at briefing area should be high enough to be visible.
- C. There should be a windsock at entrance to location.

4. CONDITION FLAGS AND SIGNS

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag, normal safe condition. Yellow H2S safety flag indicates potential pressure and danger. Red flag, danger, H₂S present in dangerous concentration. Only emergency personnel admitted to location.

5. WELL CONTROL EQUIPMENT

A. See exhibit "E"

6. COMMUNICATION

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Cellular telephones will be used to communicate off location in case emergency help is required.

7. DRILLSTEM TESTING

- A. Exhausts will be watered
- B. Flare line will be equipped with an electric ignitor, diesel pilot, or a propane pilot light in case gas reaches the surface.
- C. If location is near any dwelling a closed D.S.T. will be performed.
- 8. Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.

HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

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PAGE 2

9. If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers, if necessary.

SURFACE USE PLAN PENWELL ENERGY INC. DIAMOND TAIL "23" FEDERAL #2 1980' FNL & 660' FEL SECTION 23, T-23-S, R-32-E LEA COUNTY, NEW MEXICO

- 1. EXISTING ROADS: Area maps, Exhibit "B" is a reproduction of Lea Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From Intersection of State Hiway 128 and County Road C-29, go east on Hwy. 128 9.5 miles thence northwest on Transwestern Road 6.5 miles thence northeast on El Paso N.G. Road 0.5 miles thence south on lease road 0.3 miles.
- 2. PLANNED ACCESS ROADS: None.

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- A. The access road will be crowned and ditched to a 12' wide travel surface with a 40' right-of-way.
- B. Gradient on all roads will be less than 1.00%.
- C. No turnouts will be necessary.
- D. If needed, road will be surfaced with a minimum of 6" of compacted caliche. This material will be obtained from a local source.
- E. Earthwork will be as required by field conditions.
- F. Culverts in the access road will not be used.
- 3. LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A-1"
 - A. Water wells None known
 - B. Disposal wells None known
 - C. Drilling wells As shown on Exhibit "A-1"
 - D. Producing wells As shown on Exhibit "A-1
 - E. Abandoned wells As shown on Exhibit "A-1"If, upon completion this well is a producer, Penwell Energy Inc. will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied with a Sundry Notice.

PENWELL ENERGY, INC. DIAMOND TAIL "23" FEDERAL, #2 SURFACE USE PLAN

PAGE 2

4. LOCATION AND TYPE OF WATER SUPPLY

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Water will be purchased locally from a private source and trucked over the access roads or piped in flexible lines laid on top of the ground.

5. SOURCE OF CONSTRUCTION MATERIALS

If needed, construction materials will be obtained from the drill site's excavations or from a local source. These materials will be transported over the access route as shown on Exhibit "A".

METHODS FOR HANDLING WASTE DISPOSAL

- A. 1. Drill cuttings will be disposed of in the reserve pit.
 - 2. Trash, waste paper, and garbage will either be contained in a fenced trash trailer or in a trash pit, fenced with mesh wire to prevent wind-scattering and will be buried at least 36" deep within a reasonable period of time.
 - 3. Salts remaining after completion of the well will be picked up by the supplier, including broken sacks.
 - 4. Sewage from trailer houses will drain into holes with minimum depth of 10'00". These holes will be covered during drilling and backfilled upon completion.
- B. Remaining drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry enough for backfilling.

Water produced during testing of the well will be disposed of in the reserve pit. Oil produced during testing of the well will be stored in test tanks until sold and hauled from the site.

6. ANCILLARY FACILITIES

No camps of airstrips will be constructed.

7. WELL SITE LAYOUT

- A. Exhibit "D" shows the proposed well site layout.
- B. This exhibit indicated proposed location of reserve and sump pits and living facilities.

PENWELL ENERGY, INC DIAMOND TAIL "23" FEDERAL #2

SURFACE USE PLAN

PAGE 3

- C. Mud pits in the active circulating system will be steel pits and the reserve pit is proposed to be unlined unless subsurface condition encountered during pit construction indicate that lining is needed for lateral containment of fluids.
- D. If needed, the reserve pit is to be lined with polyethylene. The pit liner will be 6 mils thick. Pit liner will extend a minimum 2'00" over the reserve pits dikes where the liner will be anchored down.
- E. The reserve pit will be fenced on three sides with four strands of barbed wire during drilling and completion phases. The fourth side will be fenced after all drilling operations have ceased. If the well is a producer, the reserve pit fence will be torn down. The reserve pit and those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

8. PLANS FOR RESTORATION OF SURFACE

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Rehabilitation of the location and reserve pit will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole. However, in either event, the reserve pit will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The pit area will then be leveled and contoured as closley as possible to conform to the original and surrounding area. Drainage systems, if any, will be reshaped in the same manner with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be contoured as closely as possible to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

9. OTHER INFORMATION:

- A. Topography: The proposed well site and access road consists of low lying sand dunes with native grasses and Mesquite with some small oak trees.
- B. Surface is owned by The Department of Interior, BLM. The grazing lease is Mr. Larry Bearden of Seminole Texas.
- C. An archaeological study will be conducted on the location and road when completed it will be submitted separately to the BLM in Carlsbad, New Mexico.
- D. There are no dwellings within 2 miles of location.

PENWELL ENERGY, INC. DIAMOND TAIL "23" FEDERAL #2 SURFACE USE PLAN

PAGE 4

10. OPERATORS REPRESENTIVE:

PENWELL ENERGY, INC. 600 NORTH MARIENFELD, STE. 1100 MIDLAND, TEXAS 79701

BILL PIERCE PHONE 915 683-2534

11. CERTIFICATION: - I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Penwell Energy Inc., its contractors/subcontractors is in the conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME

Bill Pierce - 9-11-96

DATE :___

| TITLE | :Engineer |
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EXHIBIT "D"



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EXHIBIT "E" PENWELL ENERGY. INC.

511 BOP Specifications



FIGURE K6-1. The schematic sketch of an accumulator system shows reguired and optional components.



FIGURE K4-1. Typical choke manifold assembly for 2M and 3M rat working pressure service — surf.ce installation.

EXHIBIT "1-E" CHOKE MANIFOLD & CLOSING UN PENWELL ENERGY INC.