

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

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

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

APR 13 1994

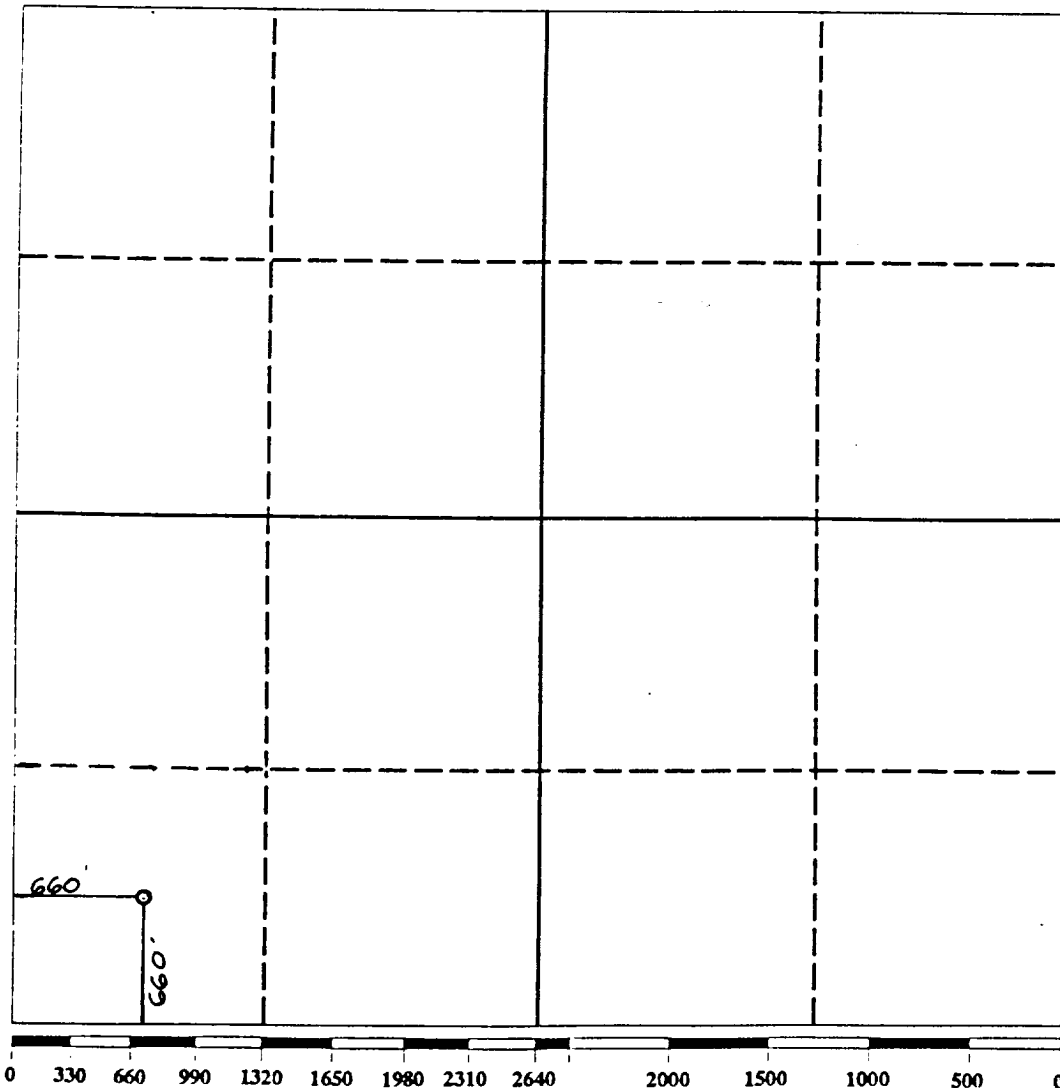
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

| | | | | | |
|--|---|-----------------------------|----------------------------------|--|----------------------|
| Operator STRATA PRODUCTION | | | Lease PAPAGAYO FEDERAL | | Well No. 1 |
| Unit Letter M | Section 27 | Township 23 SOUTH | Range 34 EAST | County LEA COUNTY, NM | |
| Actual Footage Location of Well: 660 feet from the WEST line and 660 feet from the SOUTH line | | | | | |
| Ground level Elev. 3474 . | Producing Formation BONE SPRING | | Pool UNDESIGNATED | Dedicated Acreage: 80.00 Acres | |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, force-pooling, etc.?
☐ Yes ☐ No If answer is "yes" type of consolidation _____
If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Carol J. Garcia
Printed Name
CAROL J. GARCIA
Position
PRODUCTION RECORDS MANAGER
Company
STRATA PRODUCTION COMPANY
Date
MAY 6, 1994

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
APRIL 12, 1994
Signature & Seal of Professional Surveyor
[Signature]
Certificate No. **5412**
NM FB&PS NO. **5412**
PROFESSIONAL ENGINEER

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MAY 1906

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Form 3160-3
(July 1989)
(formerly 9-331C)

N.M. OIL CONS. COMMISSION
P.O. BOX 1980
HOBBS, NEW MEXICO 88240
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONTACT RECEIVING
OFFICE FOR NUMBER
OF COPIES REQUIRED
(Other instructions on
reverse side)

BLM Roswell District
Modified Form No.
NM60-3160-2

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒

GAS
WELL ☐

OTHER ☐

SINGLE
ZONE ☐

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Strata Production Company

3a. Area Code & Phone No.

(505) 622-1127

3. ADDRESS OF OPERATOR

P.O. Box 1030, Roswell, NM 88202-1030

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface 660' FSL & 660' FWL

At proposed prod. zone

(N)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 miles northwest of Jal, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE

600.00

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1320'

19. PROPOSED DEPTH

8900'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

80.00

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

3474' GR

Captain Controlled Water Basin

22. APPROX. DATE WORK WILL START*

June 1, 1994

PROPOSED CASING AND CEMENTING PROGRAM

| HOLE SIZE | CASING SIZE | WEIGHT/FOOT | GRADE | THREAD TYPE | SETTING DEPTH | QUANTITY OF CEMENT |
|-----------|-------------|-------------|-------|-------------|---------------|--|
| 17 1/2" | 13 3/8" | 48# | H-40 | 8 RD ST&C | 350' 550' | Circ to surface |
| 11" | 8 5/8" | 32# & 24# | J-55 | 8 RD ST&C | 4900' | Circ to surface |
| 7 7/8" | 5 1/2" | 17# | J-55. | 8 RD LT&C | 8900' | Tie back to 600' in intermediate casing |

Strata Production Company proposes to drill to a depth sufficient to test the Bone Spring formation. If productive, 5 1/2" casing will be set. If non-productive, the well will be plugged and abandoned in a manner consistent with Federal Regulations. Specific programs as set out in Onshore Oil and Gas Order #1 are outlined in the following attachments:

NMOCD Form C-102 Well Location and
Acreage Dedication Plat
Hole Prognosis
Surface Use and Operating Plan
Exhibit "A" Equipment Description
Exhibit "B" Planned Access Roads
Exhibit "C" One Mile Radius Map
Exhibit "D" Drilling Rig Layout Plan

OPER. OGRID NO. 21712
PROPERTY NO. 15156
POOL CODE 02200
EFF. DATE 6/10/94
APL NO. 30-05-32543

Approval Subject to
General Regulations and
Special Regulations
Revised

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED Carol J. Garcia

TITLE Production Records Manager

DATE 5/6/94

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

151 Ron Dunton

TITLE

(for) AREA MANAGER

DATE

6-10-94

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL OF THIS APPLICATION DOES NOT WARRANT
OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR
EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT
LEASE WHICH WOULD ENTITLE THE APPLICANT TO

See Instructions On Reverse Side

TO CONDUCT OPERATIONS THEREON. The undersigned hereby certifies that he is authorized to make any person knowingly and willfully to make to any department or agency of the

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HOLE PROGNOSIS
APPLICATION FOR PERMIT TO DRILL
STRATA PRODUCTION COMPANY
PAPAGAYO FEDERAL #1 WELL
660' FSL & 660' FWL
SECTION 27-23S-34E
LEA COUNTY, NM

In conjunction with Form 3160-3, Application for Permit to Drill, Strata Production Company submits the following items in accordance with Onshore Oil and Gas Order Numbers 1 and 2, and all other applicable federal and state regulations.

1. Geologic Name of Surface Formation:

Permian

2. Estimated Tops of Geologic Markers:

| | | | |
|-------------------------|---------|---------------|-------|
| Red Beds | Surface | Cherry Canyon | 6150' |
| Permian Evaporites | 850' | Brushy Canyon | 7070' |
| Basal Anhydrite | 4780' | Bone Spring | 8570' |
| Delaware Mountain Group | 5030' | TD | 8900' |

3. Estimated Depths of Anticipated Fresh Water, Oil or Gas:

| | | |
|----------|---------------|-------------|
| Surface | 150' | Fresh Water |
| Delaware | 6000' - 8900' | Oil or Gas |

No other formations are expected to produce oil, gas or fresh water in measurable quantities. The surface fresh water sands will be protected by setting 13 3/8" casing at ~~350'~~ ^{550'} and circulating cement back to surface. Any shallower zones above TD which contain commercial quantities of oil and/or gas will have cement circulated across the zone by inserting a cementing stage tool into the 5 1/2" production casing which will be run at TD.

4. Casing Program:

| <u>Hole Size</u> | <u>Interval</u> | <u>OD Csg</u> | <u>Weight, Grade, Jt. Cond, Type</u> |
|------------------|------------------------------------|---------------|--------------------------------------|
| 17 1/2" | 0- 350' ^{550'} | 13 3/8" | 48#, H-40, ST&C, New |
| 11" | 0-4900' | 8 5/8" | 24# & 32#, J-55, ST&C, New |
| 7 7/8" | 0-TD | 5 1/2" | 17#, J-55, LT&C, New |

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5. Minimum Specifications for Pressure Control:

The blowout preventer equipment (BOP) shown in Exhibit "A" will consist of a double ram-type (3000 psi WP) preventer and a bag-type (hydril) preventer (3000 psi WP). Both units will be hydraulically operated and the ram-type preventer will be equipped with blind rams on top and 4 1/2" drill pipe rams on bottom. Both BOPs will be nipped up on the 13 3/8" surface casing and used continuously until TD is reached. All BOPs and accessory equipment will be tested to 1000 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 3000 psi and the hydril to 70% of rated working pressure (2100 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 3" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock, floor safety valve (inside BOP), choke lines and choke manifold with 3000 psi WP rating.

6. Types and Characteristics of the Proposed Mud System:

| | |
|---|---|
| 0' to 400' ^{500'} <i>ABZ</i> | Native mud consisting of fresh water and native muds are used for drilling purposes. |
| 400' ^{550'} <i>ABZ</i> to 4900' | Brine water purchased from commercial sources will be utilized. |
| 4900' to 6000' | Brine and fresh water purchased from commercial sources will be utilized. Salt gel will be used to build viscosity to 29 and MW 8.6. |
| 6000' to TD | Brine and fresh water with salt gel and starch will be used to maintain a viscosity of approximately 30 and a water loss of 15 or less, PH 9, MW 9.1 and CL 60,000. |

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Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. Auxiliary Well Control and Monitoring Equipment:

- A. A kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

8. Testing, Logging and Coring Program:

A two (2) man Mudlogging unit will be on location from the top of Delaware to TD. DLL-MSFL, CNL-Density, Gamma Ray, Caliper logs will be run.

Mudlogging unit will be employed from approximately 4900' (Top of Delaware) to 8900' (Total Depth). The Dual Laterolog will be run from TD to the intermediate casing, and the Compensated Neutron/Density Log will be run from TD to surface. In certain cases, Strata elects to run rotary sidewall cores from selected intervals from approximately 6000' to 8900' dependent upon logging results.

9. Abnormal Conditions, Pressures, Temperatures and Potential Hazards:

No abnormal pressures or temperatures are anticipated.

Loss of circulation is possible in the Delaware section of the hole, however, no major loss circulation zones have been reported in offsetting wells.

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Strata has drilled and completed wells in the immediate area. To date, Hydrogen Sulfide has not been encountered. However, if Hydrogen Sulfide is encountered, a Hydrogen Sulfide alarm on the drilling rig would be activated. All personnel have had Hydrogen Sulfide training and appropriate breathing apparatus is located on site. If necessary, the well can be shut in utilizing the blowout preventer and other equipment to prevent the migration of Hydrogen Sulfide to the surface.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is June 1, 1994. Once commenced, drilling operations should be completed in approximately 20 days. If the well is productive, an additional 15 days will be required for completion and testing before a decision is made to install permanent facilities.

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SURFACE USE PLAN
APPLICATION FOR PERMIT TO DRILL
STRATA PRODUCTION COMPANY
PAPAGAYO FEDERAL #1 WELL
660' FSL & 660' FWL
SECTION 27-23S-34E
LEA COUNTY, NM

Submitted with Form 3160-3, Application for Permit to Drill, covering the above captioned well. The purpose of the plan is to describe the location, the proposed construction activities, the operations, the surface disturbance involved, and the rehabilitation of the surface after completion of said well so that an appraisal can be made of the environment affected by this well.

1. Existing Roads:

- A. The wellsite and elevation plat for the proposed well was staked by Dan R. Reddy, Engineer, Carlsbad, New Mexico and is attached.
- B. All roads to the location are shown on Exhibit "B". The existing roads are illustrated in red and are adequate for travel during drilling and production operations. Upgrading of the road prior to drilling will be completed where necessary as determined during the on-site inspection.
- C. Directions to location: From Jal, New Mexico, the well is located approximately 21 miles to the northwest on County Road #21.
- D. Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on the lease.

2. Proposed Access Road:

Exhibit "B" shows that 700 feet of new access road will be required as illustrated in yellow. The road will be constructed from the existing East West road as follows:

- A. The average grade will be less than 5%.
- B. No turnouts will be necessary.
- C. No culverts, cattleguards, gates, low-water crossings or fence cuts are necessary.

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D. Surfacing material will consist of native caliche. If required, road across pad will be surfaced with a minimum of 6" of caliche. Caliche will be obtained from the nearest BLM approved caliche pit. Any additional materials that are required will be purchased from the dirt contractor.

3. Location of Existing Wells:

Exhibit "C" shows all existing wells within a one mile radius of proposed well.

4. Location of Existing and/or Proposed Facilities:

In the event the proposed well proves to be productive, Strata Production Company will furnish maps or plats showing On Well Pad Facilities and Off Well Pad Facilities (if needed) by Sundry Notice before construction of these facilities starts.

5. Location and Type of Water Supply:

The well will be drilled with a combination of brine and fresh water mud systems as outlined in the Hole Prognosis. The water will be purchased from commercial water stations in the area and trucked to the location by transport over the existing and proposed access roads shown on Exhibit "B". If a commercial fresh water source is nearby, fasline may be laid along existing road ROW's and fresh water pumped to the well. No water well will be drilled on the location.

6. Source of Construction Materials:

All caliche required for construction of the drill pad will be obtained from a BLM approved caliche pit. All roads and pads will be constructed of 6" rolled and compacted caliche.

7. Methods of Handling Water Disposal:

A. Drill cuttings not retained for evaluation purposes will be disposed into the reserve pit.

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- B. Drilling fluids will be contained in steel mud tanks. The reserve pit will contain any excess drilling fluid or flow from the well during drilling, cementing and completion operations. The reserve pit will be an earthen pit approximately 150' x 150' x 6' deep and fenced on three sides prior to drilling. It will be fenced on the fourth side immediately following rig removal. Drilling fluids will be allowed to evaporate in the reserve pits until dry.
- C. Water produced from the well during completion may be disposed into the reserve pit or a steel tank (depending on the rates). After the well is permanently placed on production, produced water will be collected in tanks (fiberglass or steel) until hauled to an approved disposal system or a separate disposal application will be submitted to BLM for approval. Produced oil will be collected in steel tanks until sold.
- D. A portable chemical toilet will be provided on the location for human waste during the drilling and completion operations. Compliance with current laws and regulations pertaining to the disposal of human waste will be followed.
- E. Garbage and trash produced during drilling or completion operations will be disposed in a separate trash trailer on location. All waste material will be contained to prevent scattering by the wind. All water and fluids will be disposed into the reserve pit. Salts and other chemicals produced during drilling or testing will be disposed into the reserve pit. No toxic waste or hazardous chemicals will be produced by the operation.
- F. After the rig is moved out and the well is either completed or abandoned, all waste materials will be cleaned up within 30 days. No adverse materials will be left on the location. The reserve pit will be completely fenced and kept closed until dried. When the reserve pit is dry enough to breakout and fill, and as weather permits, the unused portion of the wellsite will be leveled and reseeded as per BLM specifications. Only that part of the pad required for production facilities will remain in use. In the event of a dry hole, only a dry hole marker will remain.

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8. Ancillary Facilities:

No airstrip, campsite or other facility will be built as a result of the operations of the proposed well.

9. Well Site Layout:

- A. The drill pad layout, with elevations as staked by Dan R. Reddy, Engineer, is shown on Exhibit "D". Dimensions of the pad, pits and location of major rig components are shown. The well pad and pits are to be located on the original well pad and pit area. Top soil, if available, will be stockpiled per BLM specifications as determined at the on-site inspection. Since the pad is almost level, no major cuts will be required.
- B. Exhibit "D" shows the planned orientation for the rig and associated drilling equipment, reserve pit, trash pit, pipe racks, turn-around and parking areas, and access road. No permanent living facilities are planned, however, a temporary foreman/toolpusher's trailer will be on location during the drilling operations.
- C. The reserve pit will be lined with a high quality plastic sheeting (5-7 mil thickness).

10. Plan for Restoration of the Surface:

- A. Upon completion of the proposed operations, should the well be abandoned, the pit area, after allowed to dry, will be broken out and leveled. The original top soil will be returned to the entire location, and leveled and contoured to as nearly the original topography as possible.

All trash, garbage and pit lining will be removed in order to leave the location in an aesthetically pleasing condition. All pits will be filled and the location leveled within 120 days after abandonment.

- B. The disturbed area will be revegetated by reseeding during the proper growing season with a seed mixture of native grasses as recommended by the BLM.

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- C. Three sides of the reserve pit will be fenced prior to and during drilling operations. At the time the rig is removed, the reserve pit will be fenced on the rig (fourth) side to prevent livestock or wildlife from being entrapped. The fencing will remain in place until the pit area is cleaned and leveled. No oil will be left on the surface of the fluid in the pit.
- D. Upon completion of the proposed operations, should the well be productive, the reserve pit area will be treated as outlined above within the same prescribed time. The caliche from any area of the original drillsite not needed for production operations or facilities will be removed and used for construction of thicker pads or firewalls for the tank battery installation. Any additional caliche required for facilities will be obtained from a BLM approved caliche pit. Topsoil removed from the drillsite will be used to recontour the pit area and any unused portions of the drill pad to the original natural level and reseeded as per BLM specifications.

11. Surface Ownership:

The wellsite and lease are located entirely on Federal surface.

12. Other Information:

- A. The topography around the wellsite is rolling terrain with vegetation of sagebrush and native grass. The vegetation cover consists of prairie grasses and flowers. Wildlife in the area probably includes those typical of semi-arid desert land.
- B. The soils are clayey sand over caliche base.
- C. There are no permanent or live water in the immediate area.
- D. There are no residences and other structures in the area.
- E. The land in the area is used primarily for grazing purposes.

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- F. An archaeological study has been conducted for the location and access road. The report has been submitted separately.

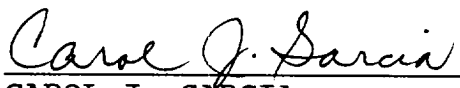
13. Lessee's and Operator's Representative:

RONNIE WILLIS
P. O. BOX 1030
ROSWELL, NEW MEXICO 88202-1030
PHONE NUMBER: (505) 622-1127-OFFICE
626-3745-CELLULAR
396-6601-HOME

14. Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite which currently exists; that the statements made in the plan are to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Strata Production Company and its contractors and sub-contractors in conformity with the plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

STRATA PRODUCTION COMPANY



CAROL J. GARCIA
PRODUCTION RECORDS MANAGER

DATE: May 6, 1994

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EXHIBIT "A"

EQUIPMENT DESCRIPTION

All equipment should be at least 3,000 psi WP or higher unless otherwise specified.

1. Bell nipple
2. Hydril bag type preventer
3. Ram type pressure operated blowout preventer with blind rams.
4. Flanged spool with one 3" and one 2" (minimum) outlet.
5. 2" (minimum) flanged plug or gate valve.
6. 2"x 2"x 2" (minimum) flanged.
7. 3" gate valve.
8. Ram type pressure operated blowout preventer with pipe rams.
9. Flanged type casing head with one side outlet.
10. 2" threaded (or flanged) plug or gate valve. Flanged on 5000# WP, threaded on 3000# WP or less.
11. 3" flanged spacer spool.
12. 3"x 2"x 2"x 2" flanged cross.
13. 2" flanged plug or gate valve.
14. 2" flanged adjustable choke.
15. 2" threaded flange.
16. 2" XXH nipple.
17. 2" forged steel 90° Ell.
18. Cameron (or equal) threaded pressure gauge.
19. Threaded flange.
20. 2" flanged tee.
21. 2" flanged plug or gate valve.
22. 2 1/2" pipe, 300' to pit, anchored.
23. 2 1/2" SE valve.
24. 2 1/2" line to steel pit or separator.

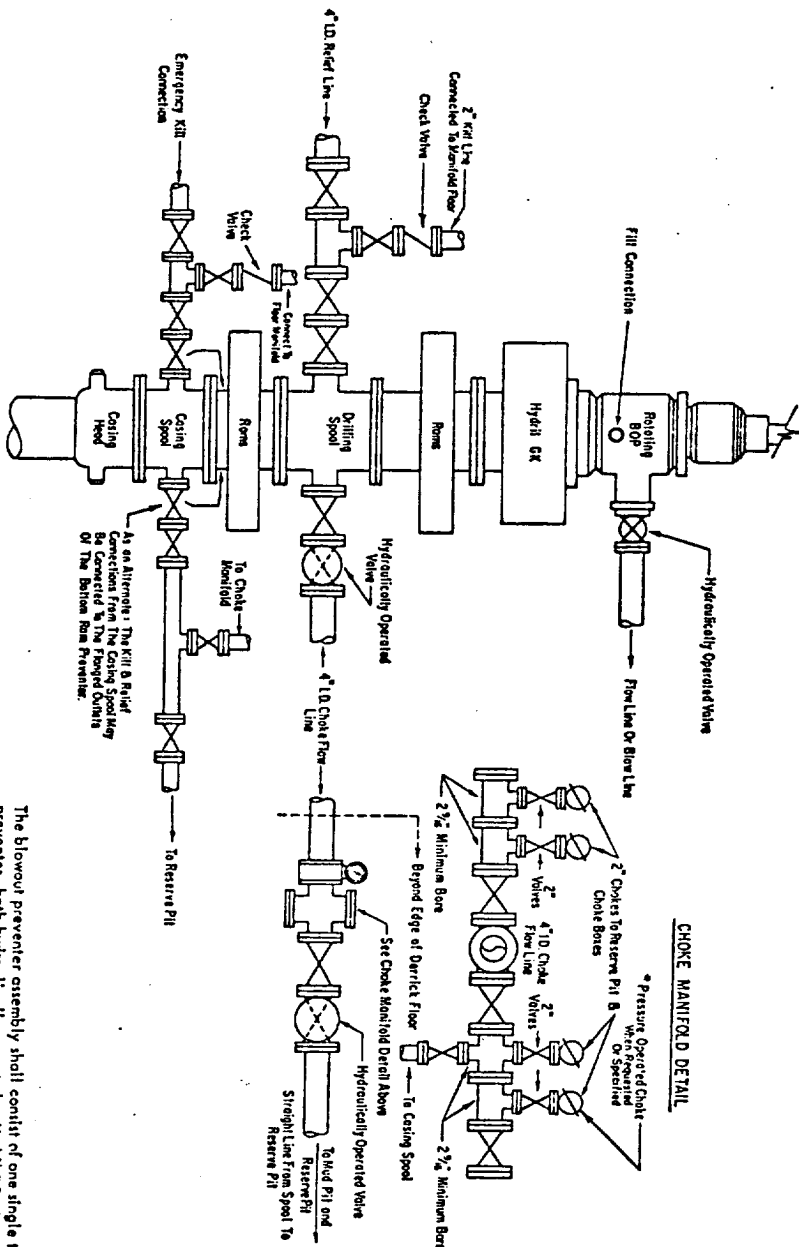
NOTES:

- 1). Items 3, 4 and 8 may be replaced with double ram type preventer with side outlets between the rams.
- 2). The two valves next to the stack on the fill and kill line to be closed unless drill string is being pulled.
- 3). Kill line is for emergency use only. This connection shall not be used for filling.
- 4). Replacement pipe rams and blind rams shall be on location at all times.
- 5). Only type U, LSW and QRC ram type preventers with secondary seals are acceptable for 5000 psi WP and higher BOP stacks.
- 6). Type E ram-type BOP's with factory modified side outlets may be used on 3000 psi or lower WP BOP stacks.

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3000 # PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP

hydraulic operating system which is to be a closed system. (2) Accumulators with a precharge of nitrogen of not less than 750 PSI and connected to as to receive the aforementioned fluid charge. With the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume of at least _____ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps; or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided for operating the hydraulic preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressures to ram preventers. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and stairways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

* To include derrick floor mounted controls.

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kg/ave/ Pit

PROPOSED ROAD

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STRATA PRODUCTION
PAPAGAYO FED. NO

660' FWL
660' FSL

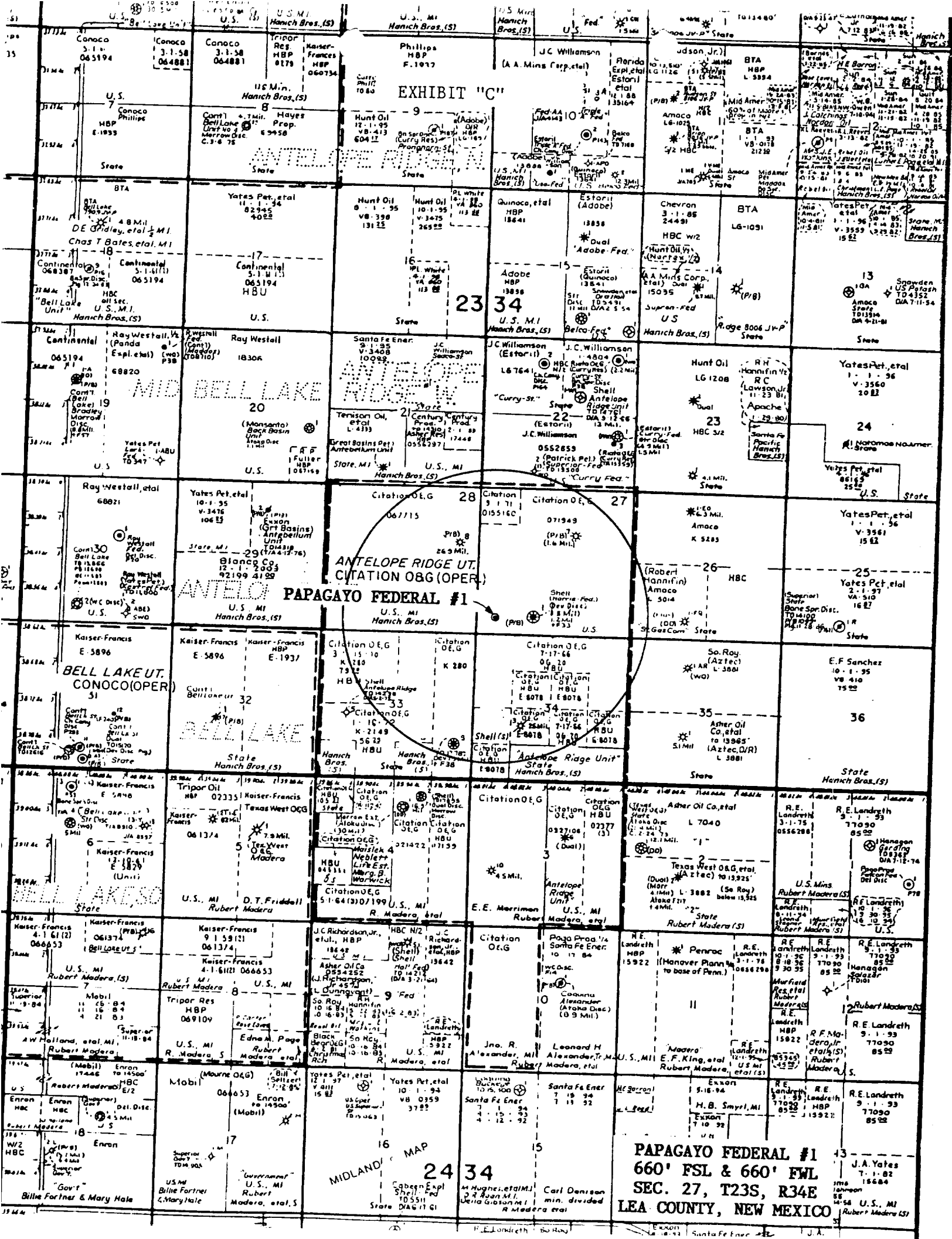
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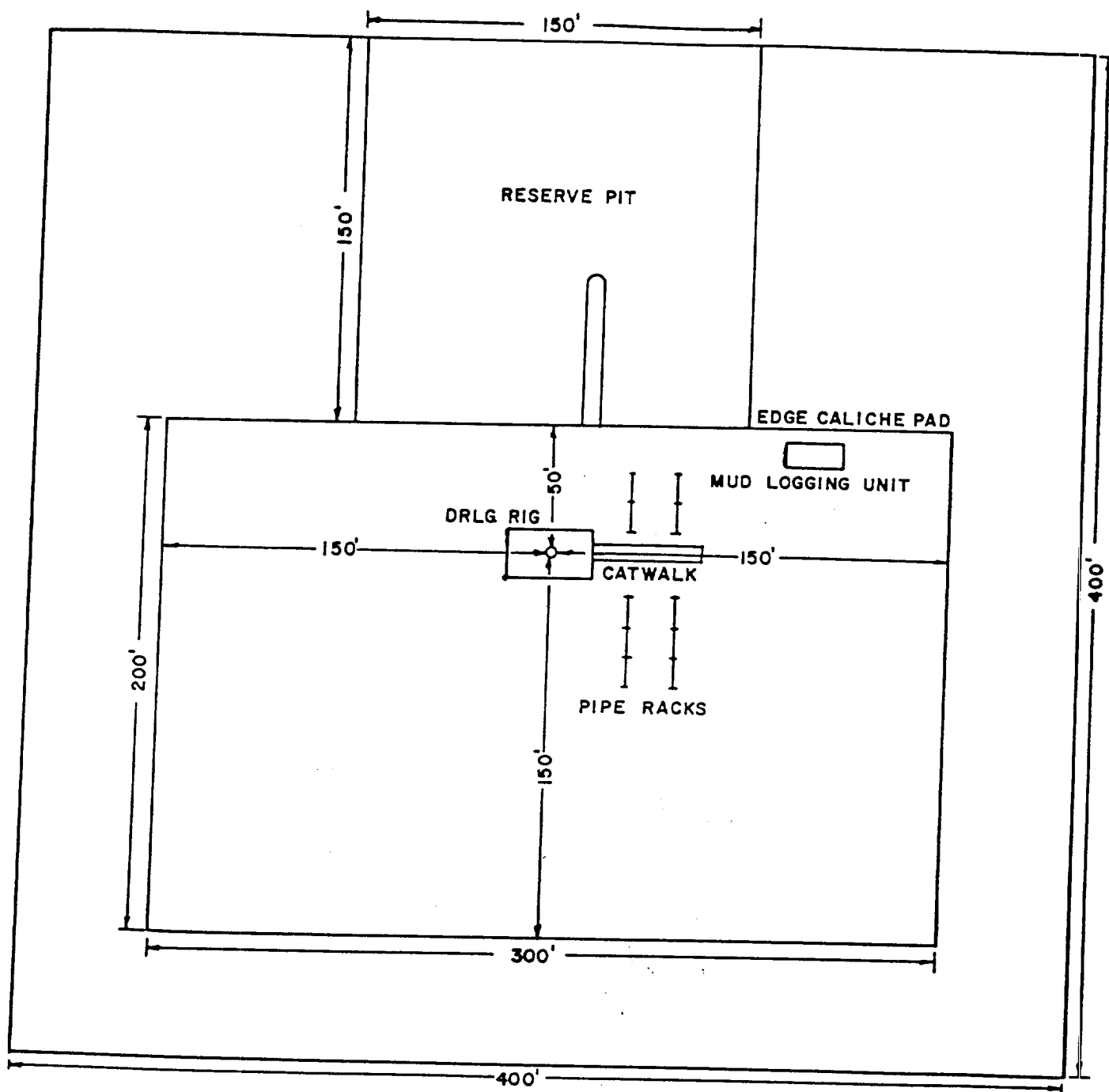
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STRATA PRODUCTION COMPANY

DRILLING RIG LAYOUT PLAN

PAPAGAYO FEDERAL #1
 660' FSL & 660' FWL
 SECTION 27-23S-34E
 LEA COUNTY, NEW MEXICO

EXHIBIT "D"

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JOE HODDS
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