| orm 9-331 (* (May 1903) | DEPARTMENT | ED STATES OF THE INTERIOR | (Other Instruction reverse side | ons on | Form approved. Budget Bureau No. 42 R1425. 5. LEASE DESIGNATION AND SECIAL NO. LAL 10107 |
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| | LE (compte | | PLUG BACK | | 7. UNIT AGREEMENT NAME |
| b. TYPE OF WELL OL: GAN WEL: WE WE | D. OTHER | SINGLE ZONE | MULTIPLE ZONE | | 8. FARM OR LEASE NAME Inclingibused Inclored. |
| Igner Fotor | | R | ECEIV | E D | 9. WELL NO |
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| 14. LISTANCE IN MILES A | ND DEECTION FROM NEAL | rest town or post office* | rico | | Chave: Nor Lorice |
| 15. DISTANCE FROM PROFG | | 16. NO. OF A | CRES IN LEASE | 17. NO. 0 TO TI | F ACRES ASSIGNED HS WELL |
| LOCATION TO NEARESS PROFERTY OR LEASE 7 (Also to nearest drig | , unit line, if any) | 19. PROPOSE | 260 D DEPTH | 20. ROTAL | RY OR CABLE TOOIS |
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| 21. ELLVATIONS (Show who | ther DF, RT, GR, etc.) | | | | 22. APPROX DATE WORK WILL START* |
| 3720.01 | · ÷ | PROPOSED CASING AND CEN | TENTING PROGRA | M | <u>) 87.77612 88017813 1.444</u> |
| | | | SETTING DEPTH | | QUANTITY OF CEMENT |
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| | deral or State office use) | (17) م | PROVAL DATE | | |
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| 17761, 198 9 an Vere | | *See Instructions O | n Reverse Side | | Posted Posted JD-1 + REEn 10-2 |

NMOCC COPY



United States Department of the Interior

GEOLOGICAL SURVEY P. O. Drawer U Artesia, New Mexico 88210

October 12, 1978

Laguna Petroleum Company One Park Central, Suite 635 Denver, Colorado 80202 LAGUNA PETROLEUM COMPANY Malmstrom Federal No. 1 2310 FNL 2195.8 FWL Sec. 19, T12S, R29E Chaves County Lease No. NM-16107 Above Data Required on Well Sign

Gentlemen:

Your APPLICATION FOR PERMIT TO RE-ENTER the above-described well to a depth of 8,600 feet to test the Mississippian is hereby approved subject to compliance with the OIL AND GAS OPERATING REGULATIONS (30 CFR 221) and the following conditions:

- 1. Drilling operations authorized are subject to compliance with the attached General Requirements for Oil and Gas Operations on Federal Leases, dated July 1, 1978.
- 2. Prior to commencing construction of road, pad, or other associated developments, operator will provide the dirt contractor with a copy of the Surface Use Plan and these Conditions of Approval including the attached General Requirements.
- 3. Submit a Daily Report of Operations from spud date until the well is completed and the Well Completion Report (form 9-330) is filed. The report should be not less than 8" x 5" in size and each page should identify the well.
- 4. All permanent above-ground structures and equipment shall be painted in accordance with the attached Painting Guidelines. The color used should simulate sandstone brown (Federal Standard Color No. 595A, color 20318 or 30318).

Sincerely yours,

(Orig. Sgd.) ALBERT R. STALL

Albert R. Stall Acting District Engineer NEW MEXICO OIL CONSERVATION COMMISSION

| | | All distances mu | at be from the outer boundaries | i of the Section. | |
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APPLICATION FOR DRILLING (RE-ENTRY)

Leguna Petroleum Company MALMSTRom Lamma Petroleum Federal Woll No. 1 Section 19-T125-R22E Chaves County, New Nation

in conjunction with Form 9-3310, Application for Perrit to Drill subject well, to use Petroleum Company submits the following ten iterated continent information:

- 1. The good gic surface formation is quaternary allutium a believe do estable and other purficial denosits.
- C. The estimated tons of geologic markers are as follows:

| Yates | 7061 | Abo | 55751 |
|------------|-------|---------------|---------------|
| (neen | 13201 | volfesar | 65951 |
| San Andres | 19801 | Atoka | 8000 1 |
| (Borieta | 33221 | Mississinnier | 01951 |
| ີໃນໄປ | 17601 | Devorian | 83721 |

 The denths at which entirinated unter, oil or set three three ere enrected to be encountered:

Unter: Ferhaps none. If any, probably in shell groundly space of quality at 600-700 feet. Gil or Cas: Scattered monosity zones in the Pilaciscic-der between 8300 feet and 8600 feet.

- h. Proposed easing program: See Form 9-3310 and obtached letter dates 9/21/7 from Meyer & Associates, Inc.
- 5. Areasuro control equippent: See Exhibit D.
- 6. 1 ad program: See attached letter dated 8/1/78 from Nuctour Yud Incorrected.
- 7. Auxiliary equipment: Blowout preventer, Inside bloos ab recorder, Kelley cock.

. "essing and coring programs: No drill stem tests or coring is planned. Logging: CB/Neutron w/collar logaber.

- 2. No simernal pressures or temperatures are satisfacted.
- 10. Articinated starting date: As soon as possible after approvel.

MEYER & ASSOCIATES, INC. P. O. BOX 7764 ● PHONE (915) 682-3751 MIDLAND, TEXAS 79701

Consulting Petroleum Engineer

October 10, 1978

Lease Management

Laguna Petroleum Corporation One Marienfeld Place, Suite 370 Midland, Texas 79701

Attn: Bill Barnes

Gentlemen:

This letter is to supplement our letter of August 12, 1978.

As outlined in the previous letter we plan to set 4-1/2" csg. at 8500'. This casing well be 11.6# & 10.5# K-55 csg. We plan to cement it with 750 sx class "C" cement + 2% gel., unless hole conditions call for more cement.

We plan to attach the BOP equipment shown in Exhibit "D" of Laguna application directly to the 13-3/8" csg.

MEYER & ASSOCIATES, INC.

Jerry 1. Moritz

MEYER & ASSOCIATES, INC.

P. O. BOX 7764 • PHONE (915) 682-3751

MIDLAND, TEXAS 79701

Consulting Petroleum Engineer

Leose Management

August 21, 1978

Laguna Petroleum Corp. One Marienfield Place, Suite 370 Midland, Texas 79701

Attn: Bill Barnes

Gentlemen:

This is to advise you of the casing program to be used in the re-entry of J. C. Williamson's - Sohio-Federal #1, Sec. 19, TRS-R29E, Chaves County, N. M.

This well already has 13-3/8" casing set at 302' and cemented w/285 sx. The program calls for cleaning the well out to 8500' and attempting a completion in the Mississippion. The need of an intermediate string of casing is not anticipated, however if it is needed it would be 8-5/8" and would be set at 1980'. The production string of casing would be $4\frac{1}{2}"$ OD and set at 8500'.

The 8-5/8" would be cemented so as to tie into the surface casing and the $4\frac{1}{2}$ " would be cemented with sufficient cement so as to cover the Abo formation at 5500'.

The size pad for a rig of this size would be 300' X 180' and the reserve pit would be 200' X 150' and would ajoin the pad.

MEYER & ASSOCIATES, INC

Jerry f. Moritz

Mustang Mud Incorporated 110 WILCO BLDG. (915) 682-7918

MIDLAND, TEXAS 79701 August 1, 1978

Laguna Petroleum Co. Gihls Tower West Midland, Texas 79701

Attention: Bill Barnes

Gentlemen:

The following is a suggested mud program on your Sohio-Federal #1 Re-entry, located in the Southeast part of Chaves County, 20 miles Southwest of Caprock, Sec. 19-12S-29E, Chaves County, New Mexico.

TO DRILL CEMENT PLUGS:

1. Suggest you build additional volume using Salt Gel and Oil, using the fluid that is already in the hole, with the following characteristics:

| Viscosity | 38 - 45 sec/1000 cc |
|-------------|---------------------|
| Weight | 9.4 - 9.7 lbs/gal. |
| Water Loss | N. C. |
| Filter Cake | 2/32 or less |
| Oil Content | 6 - 8% |
| рH | 9.5 - 10.5 |

- 2. Cement plugs should be drilled and bottom hole plug set with this type fluid. If hole problems are encountered, suggest you lower water loss to 10 cc or less with Starch before running pipe.
- 3. The Weight and viscosity may need to be altered upward as the hole conditions dictate.

.guna retroleum Co. August 1, 1978 -Page Two

ESTIMATED COSTS: (\$1,500.00 to \$3,000.00)

The above costs do not include loss circulation, pressure problems, fishing jobs, etc., which would naturally increase the mud cost.

SERVICE ENGINEERS:

- 2. Steve Palmer, Carlsbad, N.M. Ph:505 887-7151 2-Way Radio Unit #131 Hobbs 2-Way Radio Phone 505 393-8709 (24 Hour No.) Hobbs Warehouse 505 393-6421

I trust the foregoing information will be of benefit to you and if we may be of any further service, please do not hesitate to call.

Yours very truly,

MUSTANG MUD, INC.

Finden White

Lendon White

LW:cm

encl.

MULTI-POINT SURFACE USE AND OPERATIONS PLAN

Laguna Petroleum Corpany RECEI MALMSTROM Jaguna Fetreleum Federal Well No. 15 2310' FNL and 2195.8' INT. SEP 20 1070 Section 19-T21S-R29E Chavos County, New Merico U.S. GEOLOGICAL SURVEY ARTESIA, NEW MEXICO (Exploratory Vell) (Re-Entry)

This black is submitted with Form 9-3310, Application for Fermit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

1. EXISTING ROADS.

ί.

- A. Exhibit A is a portion of a map of the area surrounding the proposed wellsite, on a scale of approximately one-quarter inch to a mile, showing in red the route of the existing roads to the location, from Highway 380, east of Roswell, New Mexico. The proposed drilling location is situated at a driving distance of approximately bit.3 riles onet and south from Roswell, and can be reached as follows:
 - From the intersection of Highways 380 and 285 (Second Sugget and Main Street) in Roswell, proceed approximately 30.1 miles east on Highway 380.
 - (2) Turn right (south) on the first road cast of highway mile marker no. 185. This is a county-maintained road.
 - (3) Approximately 3.5 miles after entering this road, mass an existing caliche pit on the west side of the road.
 - (4) Approximately 5.75 miles beyond the callche pit, the read masses through a fence with an existing gate. A cattleguard will be installed adjacent to this gate.
 - (5) Continue 0.45 miles beyond this fence/gate location to a point on the uest side of the road, marked by rad surveyor ribbons.
 This is the beginning point of a new by-bass road thich will be only 0.35 miles in length, and the route is clearly visible and marked by red surveyor ribbons. The path of this road lies uset of the ranch yard of the Malmstrom ranch and basses through a fonce. A cattleguard will be installed through this fonce.
 - (6) The new 0.35 mile road mentioned above rejoins the existing reach road, just south of the Malmstron ranch yard. Continue south 0.9 miles beyond this point, then turn right (west) on a ranch trail road. The route from this point is clearly visible and flagged with red surveyor ribbons.

Laguna Petroleum Company Leguna Potroleum Fed: #1 MALMSTROM FED. #1 Proc ?

- (7) After turning west on the trail road, combinue 3.25 miles on this road, which will terminate at the southeastern corner of the drilling rad. The rouet of this road is clearly visible and marked with red surveyor ribbons.
- (6) A portion of the access route crosses private surface ended by rancher Orville E. Malmstrom, and an agreement has been reached between Leguna Petroleum Company and Mr. Malmstrom concernin; the use of his privately owned surface as secess to the drilling location.
- B. Turnouts will be constructed at normal intervals over the length of the existing trail road leading to the drillsite. No fences are involved and no cattleguards will be necessary, other than these nertioned in paragraphs 1A(4) and 1A(5), above.
- 6. The trail road will have a driving surface of 12 feet in width. The surface will be blade scraped and caliche will be added only at points where it is considered necessary to reinforce the surface. Drainage cuts will be installed periodically along the route of the road.
- D. The route of the trail road crosses a relatively level surface, with occasional gently rolling undulations. The surface is fairly solid, with only occasional areas needing caliche reinforcement.
- 3. The by-mass road mentioned above in paragraph 1A(5) will also be 12 feet wide (driving surface) and will be callede-topped as necessary.
- F. Some work will be required to up-grade portions of the existing county road north of the Malmstrom ranch. This will encompass some blade scraping, the addition of caliche topping in several soft or sandy areas, and widening at a few points which are presently too narrow for the passage of the truck carrying the drilling rig.
- 2. FLANNED ACCESS ROAD.
 - A. No new access road will be required, other than as mentioned above. No new road will be necessary in the immediate area of the drilling pad.
- 3. LOCATION OF EXISTING WELLS.
 - A. There is no production within two or more miles of the proposed location. There are plugged and abandoned wells in Sections 26 and 35-T12S-R28E and in Section 33-T12S-R29E (in addition to the plugged and abandoned well in Section 19-T12S-R29E which Laguna Petroleum Company proposes to re-enter).
- 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.
 - A. There are no production facilities on this lease at the present tipe.
 - B. In the event that the well is productive, the necessary production facilities will be installed on the drilling pad. If the well is

Laguna Petroleum Conyany Leguna Petroleum Fed. #1 Page 3

> productive of oil, a gas or diesel self-contained unit will be used to provide the necessary nower. No nower will be required if the well is productive of gas.

- 5. LOCATION AND TYPE OF WATER SUPPLY.
 - A. It is planned to drill the proposed well with a fresh water system. The water will be obtained from privately ound or commercial sources and will be hauled to the location by truck over the evicting and proposed roads described in paragraph 1, above.
- 6. SOURCE OF CONSTRUCTION MATERIALS.
 - A. Caliche for road and drilling pad surfaces whill be obtained, in part or totally, either from the existing caliche bit mentioned slove in paragraph 1A(3) or from a new bit to be opened on private surface, owned by rancher Malmstrom. Arrangements have been node between Laguna Petroleum Company and Mr. Malmstrom for the opening of such a bit on his private surface, at a location to be mutually selected, relatively close to the drillsite.
- 7. METHODS OF HANDLING WASTE DISPOSAL.
 - A. Drill cuttings will be disposed of, in the reserve vite, which will be plastic lined.
 - D. Drilling fluids will be allowed to evaporate in the personal with the pits are dry.
 - C. All mits will be fenced with normal fencing material to prevent livestock from entering the area.
 - D. Water produced during operations will be collected in bonks until hauled to an approved disposal system, or a concrate disconal coolication will be submitted to the USGS for approval.
 - 1. Oil produced during operations will be stored in white while sold.
 - y. Current laws and regulations pertoining to the disposal of human wate will be complied with.
 - G. Trash, waste paper, garbage and junk will be huried in a service which wit and covered with a minimum of Sh inches of dirb. All waste notoricle will be contained to prevent scattering by the wise.
 - H. All trash and debris till be buried or removed from the collected tidde to 50 days ofter finishin, drilling and/or consolution econoties.

2. ANCILLARY FACTLETTES.

A. None required.

MALMSTROM

Laguna Petrolaur Company MALMSTROM Laguna Potrolaum Fed. #1# rape h

-). WHISTER LATCHT.
 - A. Exhibit C shows the relative location and dimensions of the coll and and record wits.
 - B. The ground surface at the vellaite is relatively level, although surcub and fill will be necessary. There are three nounds, morth and northeast of the drilloite, which were evidently buck following dultling activities in connection with J. C. Williewoor Schie Federal Well No. 1 in 1959. These mounds, which are about ten fact high, will be leveled and the material thus removed, used as fill in the drilling of area. Gets of about two feet and four feet will be necessary on the north and northwest edge, respectively, of the wed area. Fill of accordinately one-end-a-half to two fact will be required on the south edge of the bad area. The pit area slopes downwed toward the north and fill will be required in this area. The with falls will be reinforced to prevent leakage.
 - C. The reserve pits will be plastic-lined.
 - D. The proband wit area how been staked and flagged.
- 10. PLANS FOR MESTORATION OF THE SURFACE.
 - A. After finishing drilling and/or completion corretions, all equipment and other material not needed for further operations will be removed. Pits will be filled and the location cleaned of all track and junk, so as to leave the wellsite in as aesthetically placking a condition as possible.
 - B. Any unguarded pits containing fluids will be fonced until, they have been filled.
 - C. If the proposed well is non-productive, all vebabilitation and/or vegetation requirements of the BIM and the USCS will be complied with and will be accomplished as expeditiously as possible. All pits will be filled and leveled within 50 days after abandon ent.
- 11. CTHER INFORMATION.
 - A. The proposed wellsite is located in a relatively level area, with portly rolling undulations. This also applies to the route of the access roud to the location.
 - B. The topsoil at the wellsite consists generally of nodertally woft candy loam.
 - C. Flora and Fauna: The vegetation cover at the proposed location is moderately sparse, consisting of grass, yuce plants, miscellaneous prairie weeds and flowers, a few cactus plants, and some mesquite a short distance from the wellsite. He wildlife was observed other than lizards and jackrabbits, but it is likely that other typical semi-and desert wildlife inhabit the area, which is used for cattle grasing.
 - D. There are no ponds, lakes, or flowing streams or rivers in the vicinity of the uellsite.

Laguna Petroleum Company MALMSTROM Laguna Potroleum Fed. #1 1200 5

- 3. The nearest occupied duelling is the Malmstrom seach house, about three miles northeast of the location. The closest ulmanial is an reviewboly two miles east and north of the drillsite.
- The vellatte is on federally owned surface, with federal consulty of F. minerals.
- G. There is no evidence of any significant archeological, historical or cultural sites in the area of the proposed location. An orcheological survey has been conducted by the Agency for Conservation Archaeology, Eastern New Mexico University, Portales, New Mexico.
- 12. OPERATOR'S RELATIVES.

The representatives of Laguna Potroleun Company postonsible for ausuring compliance with the approved surface use plan are:

> N. D. Barnes and H. H. Brice Laguna Fotroleum Company (ne Marienfeld Place - Suite 370 Hidland, Texas 79701 Phone: 915-683-5505

Courtney Barnes Laguna Petroleum Company One Park Central - Suite 635 1515 Arapahoe Denver, Colorado 80202 Thone: 303-573-7919

13. CERTIFICATION.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently 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 Lagune Petroleum Company and its contractors and subcentractors in conformity with this plan and the terms and conditions under which it is approved.

9/20/78

Edward M Jul

Agent for Lagune Petroleum Commany



