

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE X WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB. REPORT/abd \_\_\_\_\_

DATE FILED 12-31-86

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. U-56186 INDIAN \_\_\_\_\_

DRILLING APPROVED: 1-5-87 (Exception Location)

SPUDED IN: \_\_\_\_\_

COMPLETED: \_\_\_\_\_ PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: 5107' gr

DATE ABANDONED: 1-7-88 4-21-88

FIELD: WILDCAT

UNIT: \_\_\_\_\_

COUNTY: SAN JUAN

WELL NO. ARABIAN FEDERAL 6 API #43-037-31302

LOCATION 2195' FNL FT. FROM (N) (S) LINE. 2180' FEL FT. FROM (E) (W) LINE. SW NE 1/4 - 1/4 SEC. 19

TWP.	RGE	SEC.	OPERATOR	TWP.	RGE	SEC.	OPERATOR
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				<u>38S</u>	<u>24E</u>	<u>19</u>	<u>ABO PETROLEUM CORP.</u>
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2/22/88

Approved  
BLM  
1/2/87

G.

**CONFIDENTIAL** UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

**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  
Abo Petroleum Corporation

3. ADDRESS OF OPERATOR  
105 South Fourth Street - Artesia, NM 88210

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface 2195' FNL & 2180' FEL  
 At proposed prod. zone UNORTHODOX LOCATION *sw/NE*  
Same PROPER PAPERWORK HAS BEEN SENT TO STATE OF UTAH

5. LEASE DESIGNATION AND SERIAL NO.  
U-56186

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Arabian Federal

9. WELL NO.  
6

10. FIELD AND POOL, OR WILDCAT  
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 19-T38S-R24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approximately 5 miles north of Hatch Trading Post

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 2195'

16. NO. OF ACRES IN LEASE  
3300

17. NO. OF ACRES ASSIGNED TO THIS WELL  
80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
6105' *Akah*

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
5107' GR

22. APPROX. DATE WORK WILL START\*  
ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48# H-40	Approx. 100'	50 sacks
12-1/4"	8-5/8"	24# J-55	" 2010'	800 sacks
7-7/8"	5-1/2"	15.5# J-55	TD	400 sacks

We propose to drill and test the Akah and intermediate formations. Approximately 2010' of intermediate casing will be set and cement circulated to shut off gravel and cavings. If commercial, production casing will be run and cemented with adequate cover, perforated and stimulated as needed for production.

MUD PROGRAM: Fresh water to 5500'; fresh water gel to TD

BOP PROGRAM: BOP's will be nipped up when intermediate casing is set

**RECEIVED**  
DEC 31 1986

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

24. SIGNED Cay Cowan TITLE Regulatory Agent DATE Dec. 19, 1986

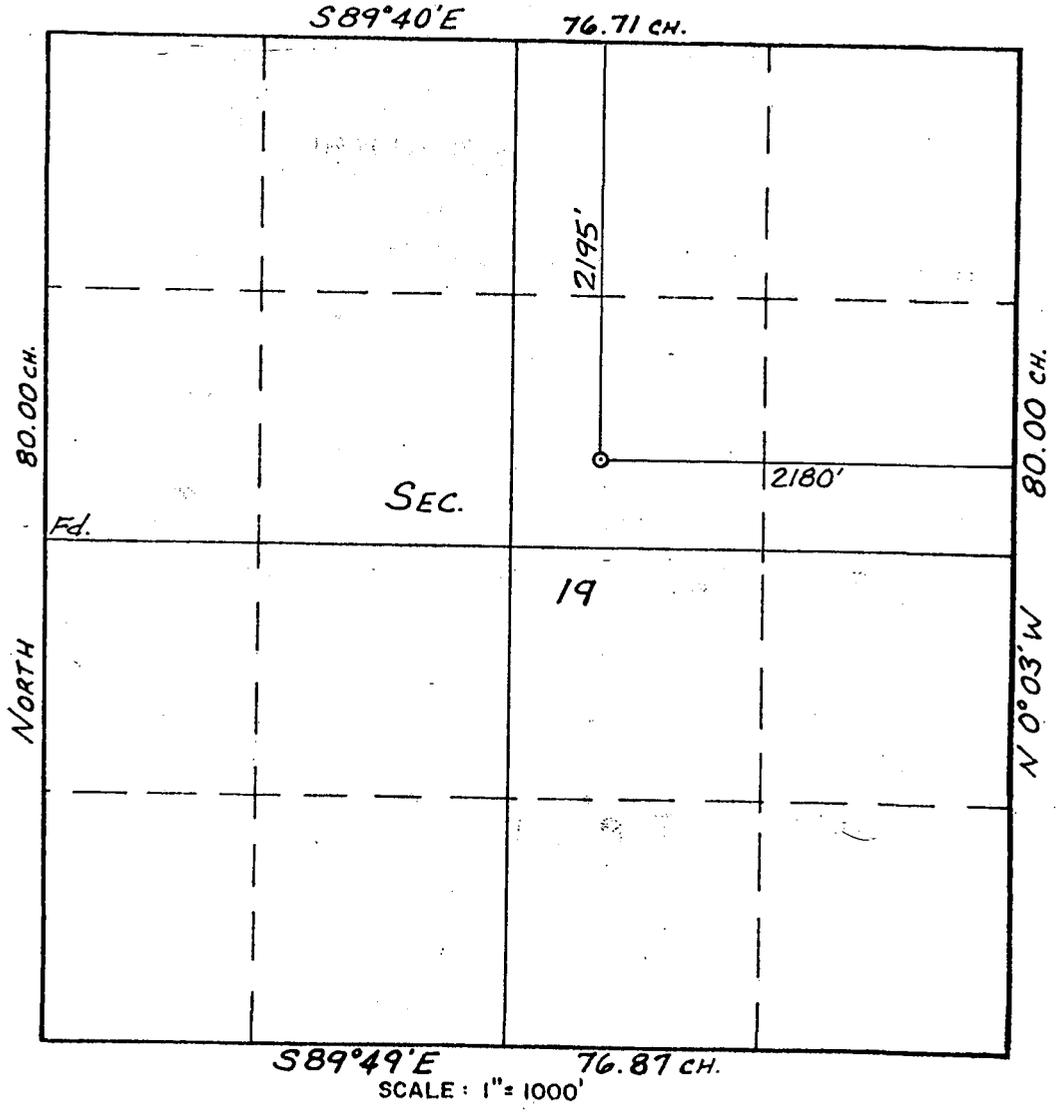
(This space for Federal or State office use)

PERMIT NO. 43-037-31302 APPROVAL DATE APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE: 1-5-88  
 BY: John R. Day

\*See Instructions On Reverse Side WELL SPACING: 302-1

COMPANY ABO PETROLEUM CORPORATION  
 LEASE ARABIAN FEDERAL WELL NO. 6  
 SEC. 19, T. 38 S, R. 24 E  
 COUNTY San Juan STATE Utah  
 LOCATION 2195' FNL & 2180' FEL  
 ELEVATION 5107



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD  
 NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION  
 AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND BELIEF.



*William E. Mahnke II*  
 WILLIAM E. MAHNKE II  
 NEW MEXICO P.L.S. NO 8466

SURVEYED DEC. 8, 1986



105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

S. P. YATES  
PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. - TREAS.

December 19, 1986

RECEIVED  
DEC 23 1986

DIVISION OF  
OIL, GAS & MINING

State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, UT 84180-1203

ATTENTION: Ms. Arlene Sollis

RE: Exception to the locations for:  
Abo Petroleum Corporation's  
Arabian Federal #4  
825' FSL & 2510' FEL  
Arabian Federal #5  
2180' FSL & 2580' FEL  
Arabian Federal #6  
2195' FNL & 2180' FEL  
Section 19-T38S-R24E  
San Juan County, Utah

Dear Ms. Sollis:

Abo Petroleum Corporation hereby requests an exception to Rule 302 of the Oil and Gas Conservation's general rules and regulations orders. Abo Petroleum Corporation hereby is requesting that the unorthodox location for the Arabian Federal #4, Arabian Federal #5 and the Arabian Federal #6 be favorably approved by the State of Utah, Division of Oil, Gas and Mining.

The reasons for moving the locations unorthodox was due to geological and topographical reasons. With our interpretation of all materials and information it was determined that each location was best for wildcat drilling activities.

We control the surrounding acreage within a 460 foot radius. A copy of a topographical map is enclosed showing the outline of the lease.

If you have any questions regarding this matter, please contact Abo's geologist, Mr. Steve Speer at 505-748-1471.

Thank you for your cooperation in this matter.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

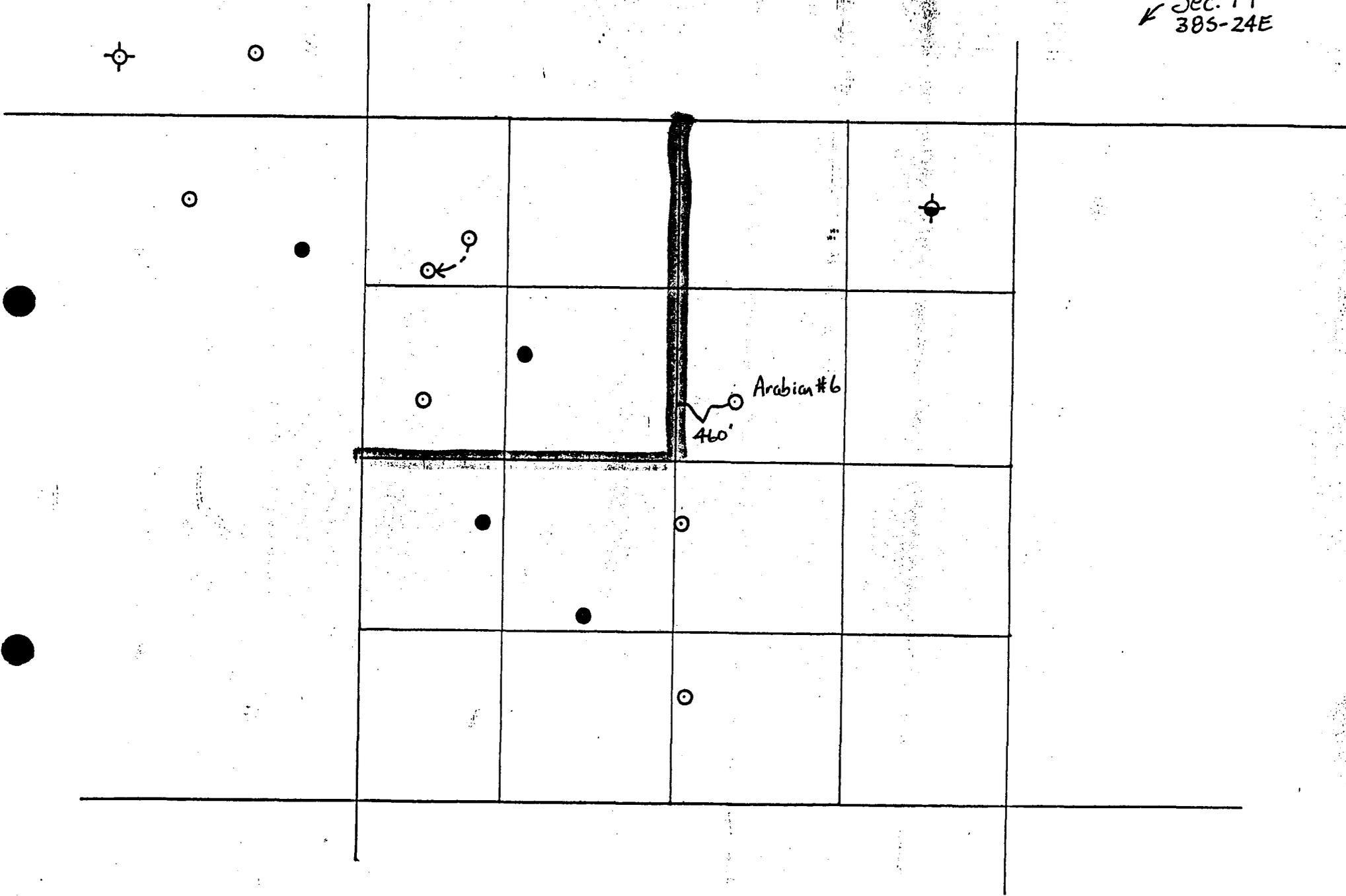
DATE: 12-24-86  
BY: [Signature]

Sincerely yours,

[Signature]  
Cy Cowan  
Regulatory Agent

CC: rj

Sec. 19  
385-24E



Arabic #6  
460'



ABO PETROLEUM CORPORATION  
Arabian Federal #6  
2195' FNL and 2180' FEL of  
Section 19-T38S-R24E  
San Juan County, Utah

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Abo Petroleum Corporation submits the following ten items of pertinent information in accordance with BLM requirements.

1. The geologic surface formation is the Morrison formation.
2. The estimated tops of geologic markers are as follows:

Morrison	Surface	Paradox	5555'
Entrada	765'	Upper Ismay	5705'
Navajo	950'	Lower Ismay	5870'
Wingate	1550'	Upper Desert Creek	5960'
Chinle	1860'	Lower Desert Creek	6020'
Cutler	2705'	Akah	6065'
Honaker Trail	4625'	TD	6105'

3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered are:

Water: approximately 930'

Oil or Gas: Upper Ismay 5705'; Lower Ismay 5870'; Desert Creek 5960'

4. Proposed Cementing Program:

Surface Casing:

There will be one stage of cement. Cemented with 800 sacks of Class C 2 $\frac{1}{2}$  CaCl<sub>2</sub> (600 cubic feet of cement) circulated. Casing shoe will be set at 2010' with float equipment set at approximately 1970'.

Intermediate Casing:

There will be one stage or as warranted of cement. Cemented with enough Class C to equal 220 cubic feet or approx. 300 sacks to reach est. top at 5000'. Float collar will be set at approx. 40' above TD with casing shoe set at TD.

NOTE: SAN JUAN RESOURCE AREA WILL BE NOTIFIED ONE (1) DAY PRIOR TO RUNNING CASING STRINGS AND CEMENT.

5. Pressure Control Equipment: BOP's will be installed. NOTE: San Juan Resource Area will be notified one (1) day prior to pressure testing.

6. Mud Program:

Fresh water to 5500'; fresh water gel & starch from 5500-TD with MW 8.5-9.8, Vis 35-45 & FL 10-15 cc's.

7. Auxiliary Equipment: Kelly cock, pit level indicators and flow sensor equipment; sub with full-opening valve on floor, drill pipe connectors.

8. Testing, Logging & Coring Program:

Samples: 10' samples caught out from under surface casing to TD.

DST's: Two (2) possible

Coring: None

Logging: DIL & CNL/LDT from TD to casing. Possible dipmeter and sonic.

9. No abnormal pressures or temperatures are anticipated.

10. Anticipated starting date: As soon as possible after approval.

MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Abo Petroleum Corporation Well Name Arabian Federal #6

Location: Section 19 Township 38S Range 24E

County San Juan State Utah Lease No. U-56186

2195' FN L, 2180' FE L

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM:

1. Surface Formation and Estimated Formation Tops: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Estimated Depth at Which Oil, Gas, Water or Other Minerals Bearing Zones are Expected to be Encountered:

	<u>Formation</u>	<u>Zone</u>
Expected Oil Zones:	_____	_____
Expected Gas Zones:	_____	_____
Expected Water Zones:	_____	_____
Expected Minerals Zones:	_____	_____

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth, cased and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. CONTINUED:

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventors will be pressure tested before drilling casing cement plugs. The San Juan Resource Area (will/will not be notified \_\_\_\_\_ days before pressure testing.

4. Casing Program and Auxiliary Equipment: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Anticipated cements tops will be reported as to depth, not the expected number of sacks. The San Juan Resource Area (will/will not) be notified \_\_\_\_\_ days before running casing strings and cement.

5. Mud Program and Circulating Medium: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Coring, Logging and Testing Program: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids and/or gases) will be submitted to the District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8. Anticipated Starting Dates and Notifications of Operations:

The operator will contact the San Juan Resource Area at 801-587-2001, 48 hours before beginning any dirt work.

No location will be constructed or moved, no well will be plugged and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent within 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM District Office, P. O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager, or the appropriate surface manager.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, Well number, location by 1/4 1/4 section, township and range, lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: The following may be inspected and/or witnessed:

1. The cementing and testing of surface casing and testing BOP's.
2. (Dry Hole) Setting and testing of surface casing shoe plug.
3. (Depleted Producer) The setting and testing of plugs across the producing horizon and if applicable the surface casing shoe plug and/or annulus (Casing to formation) squeeze jobs.

Notify the San Juan Resource Area (Mike Wade) one day or on dry hole as soon as possible prior to the above at 801-587-2201 (Home 801-587-2026 or if unable to reach Mike, call Moab District Office Greg Noble at 801-259-6111 (Home) 801-259-8811.

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads:

A. Location of proposed well in relation to town or other reference point:

Approximately 5 miles north of Hatch Trading Post

B. Proposed route to location: Refer to Exhibit A.

C. Plans for improvement and/or maintenance of existing roads: County

maintained road. Existing and new access will be maintained in good or better condition.

The maximum total disturbed width will be 25 feet.

D. An encroachment permit will be obtained from the San Juan County Road Department, 801-587-2231, ext. 43.

E. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. PLANNED ACCESS ROADS

- A. The maximum total disturbed width will be 25 (width) feet.
- B. Maximum grade: 10% or less
- C. Turnouts: As needed
- D. Location (centerline): Flagged
- E. Drainage: As needed
- F. Surface Materials: Native
- G. Other: If well is drilled during wet weather conditions, surfacing materials may be required.

Each fence which is crossed by the road will be braced as shown in Enclosure No. 1, and tied off before cutting to prevent slackening of the wire. A gate or cattleguard which must be approved by BLM, will be installed.

If road construction cuts through natural topography which serves as a livestock barrier, a fence shall be constructed as shown in Enclosure 1.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Existing Wells: See One-Mile radius map. Exhibit E is enclosed.

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Inter-agency Committee. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be \_\_\_\_\_.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain 1-1/2 times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. LOCATION AND TYPE OF WATER SUPPLY

All water needed for drilling purposes will be obtained from: Private source.

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Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer (801) 637-1303 and by receiving permission from the land owner or surface management agency to use the land containing the water source.

6. SOURCE OF CONSTRUCTION MATERIALS

Pad construction material will be obtained from: Federal surface.

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The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Construction material (will/will not) be located on lease.

7. METHODS OF HANDLING WASTE DISPOSAL

The reserve pit (~~will~~/will not) be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

7. CONTINUED:

A trash pit will be constructed near the mud tanks and dug at least six feet into solid undisturbed material. It will be totally enclosed with a fine wire mesh before the rig moves in. The road and pad will be kept litter free.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contact the San Juan County Sheriff in Monticello, Utah.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NITL-2B).

8. ANCILLARY FACILITIES

Camp facilities (~~will~~/will not) be required. They will be located: N/A

9. WELL SITE LAYOUT

The reserve pit will be located: Federal surface; See Exhibit C

The top \_\_\_\_\_ inches of soil material will be removed from the location and stockpiled separate from the trees on the \_\_\_\_\_ side. Topsoil along the access will be reserved in place.

Access to the well pad will be from: \_\_\_\_\_

10. RECLAMATION

- A. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- B. The operator/holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah, 801-587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- C. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- D. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- E. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped \_\_\_\_\_ inches deep with the contour.
- F. Water bars will be built as follows to control erosion.

10. CONTINUED

<u>GRADE</u>	<u>SPACING</u>
2%	every 200 feet
2-4%	every 100 feet
4-5%	every 75 feet
5+%	every 50 feet

G. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

- \_\_\_\_\_ lbs/acre Indian ricegrass (Oryzopsis hymenoides)
- \_\_\_\_\_ lbs/acre Galleta (Hilaria jamesii)
- \_\_\_\_\_ lbs/acre crested wheatgrass (Agropyron desertorum)
- \_\_\_\_\_ lbs/acre Western wheatgrass (Agropyron smithii)
- \_\_\_\_\_ lbs/acre Alkali sacaton (Sporobolus airoides)
- \_\_\_\_\_ lbs/acre Sand dropseed (Sporobolus cryptandrus)
- \_\_\_\_\_ lbs/acre Fourwing saltbush (Atriplex canescens)
- \_\_\_\_\_ lbs/acre Shadscale (Atriplex confertifolia)
- \_\_\_\_\_ lbs/acre Green ephedra (Ephedra viridis)
- \_\_\_\_\_ lbs/acre Cliffrose (Cowania mexicana)
- \_\_\_\_\_ lbs/acre Desert bitterbrush (Purshia glandulosa)
- \_\_\_\_\_ lbs/acre Winterfat (Eurotia lanata)
- \_\_\_\_\_ lbs/acre Globemallow (Sphaeralcea ambigua)
- \_\_\_\_\_ lbs/acre Wild sunflower (Helianthus annuus)
- \_\_\_\_\_ lbs/acre

H. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.

I. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface Ownership: Federal surface

Minerals Ownership: Federal minerals

12. Other Information: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

12. CONTINUED:

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: \_\_\_\_\_

Office Phone: \_\_\_\_\_ Address: \_\_\_\_\_

Resource Area Manager's address and contacts:  
Address: \_\_\_\_\_

Your contact is: \_\_\_\_\_

Office Phone: \_\_\_\_\_

13. LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION  
Representative:

Name: Abo Petroleum Corporation  
Address: 105 So. 4th St. - Artesia, NM 88210  
Phone No. 505-748-1471

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 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 Abo Petroleum Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

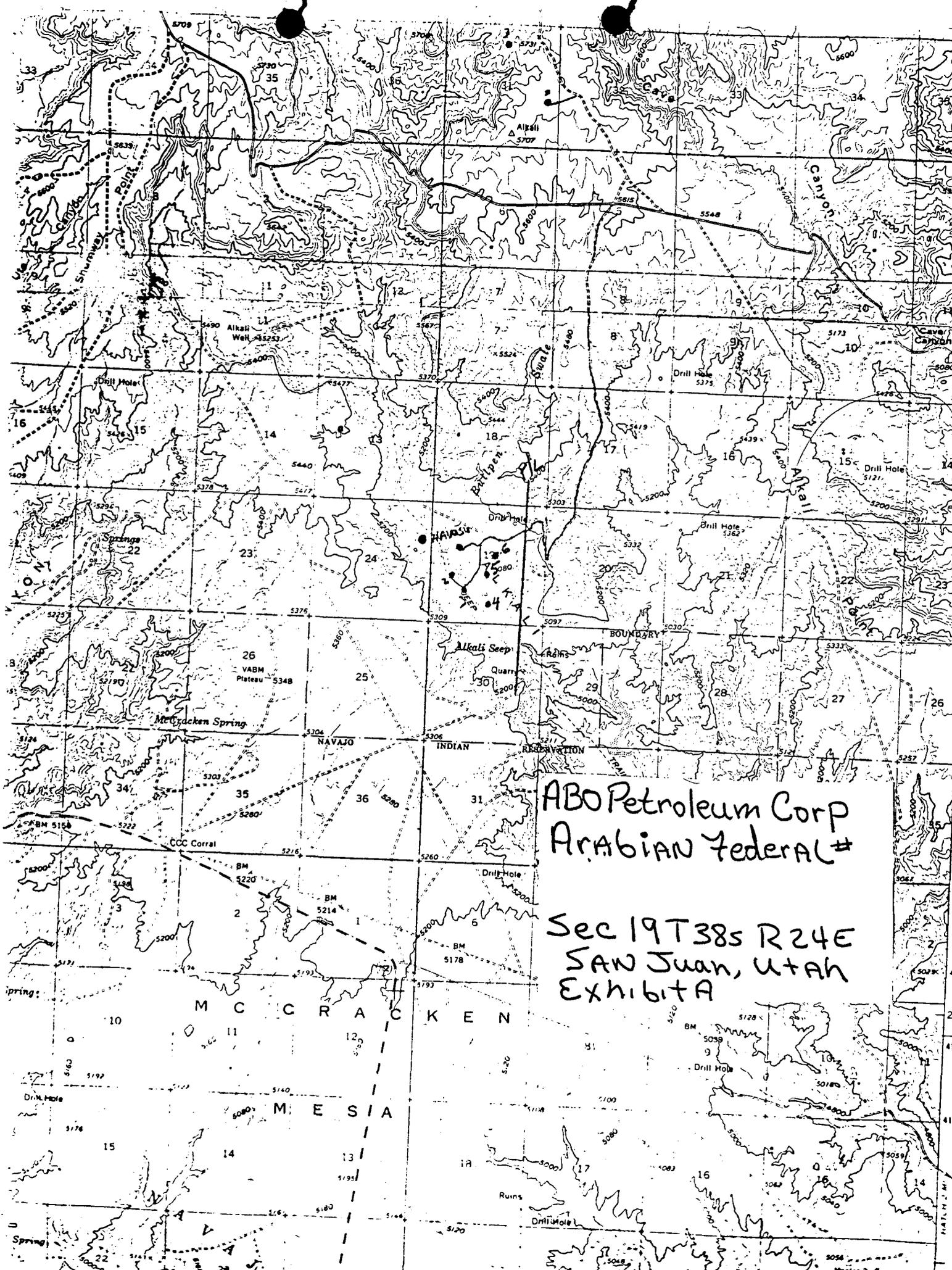
\_\_\_\_\_  
Date

\_\_\_\_\_  
Cy Cowan  
Regulatory Agent





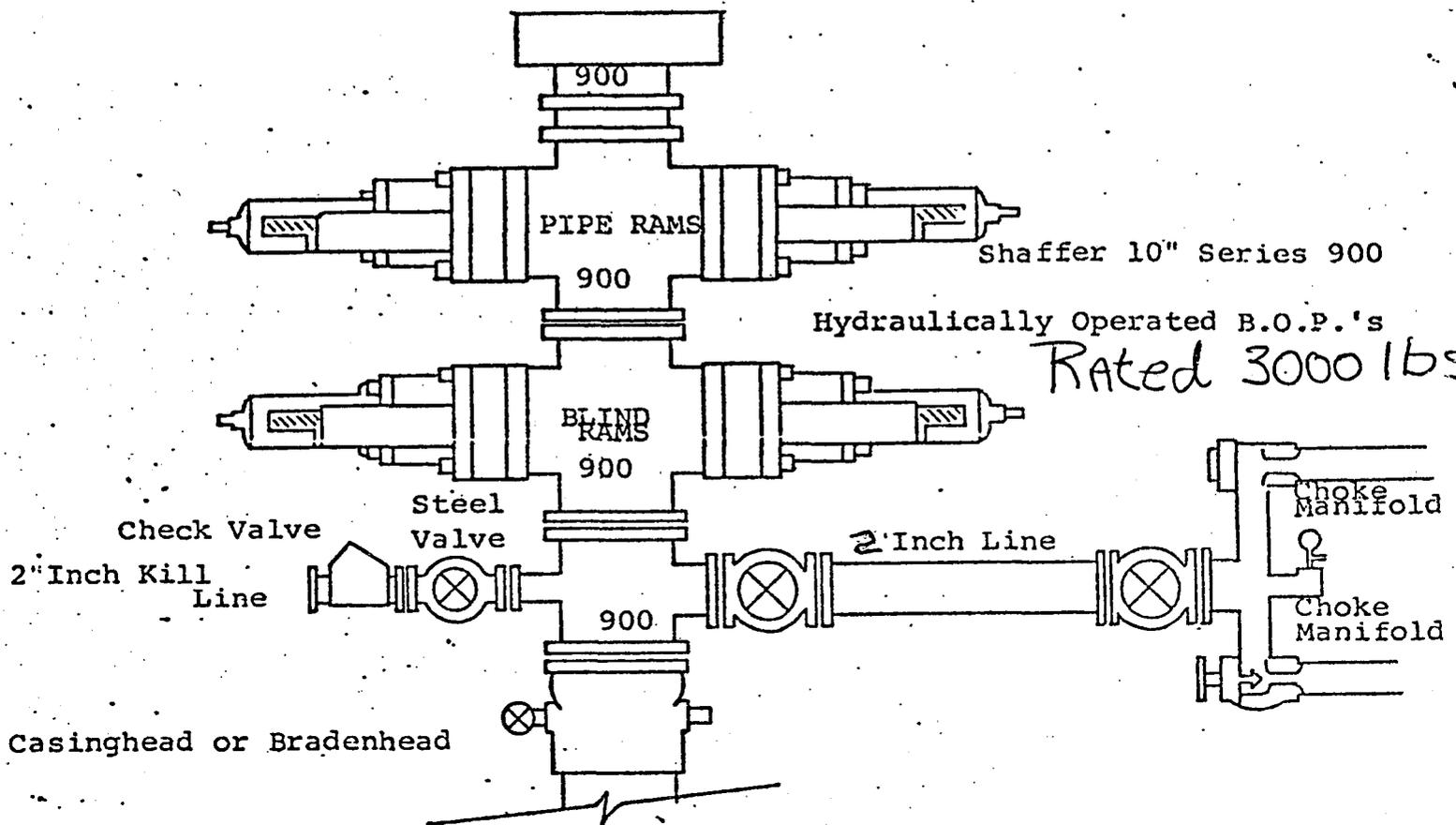




ABO Petroleum Corp  
Arabian Federal #

Sec 19 T38s R24E  
SAN Juan, Utah  
Exhibit A

Exhibit D



THE FOLLOWING CONSTITUTE MINIMUM BLOWOUT PREVENTER REQUIREMENTS

1. All preventers to be hydraulically operated with secondary manual controls installed prior to drilling out from under casing.
2. Choke outlet to be a minimum of 2" diameter.
3. Kill line to be of all steel construction of 2" minimum diameter.
4. All connections from operating manifolds to preventers to be all steel hole or tube a minimum of one inch in diameter.
5. The available closing pressure shall be at least 15% in excess of that required with sufficient volume to operate the B.O.P.'s.
6. All connections to and from preventer to have a pressure rating equivalent to that of the B.O.P.'s.
7. Inside blowout preventer to be available on rig floor.
8. Operating controls located a safe distance from the rig floor.
9. Hole must be kept filled on trips below intermediate casing. Operator not responsible for blowouts resulting from not keeping hole full.
10. D. P. float must be installed and used below zone of first gas intrusion.

CORBIN UNIT  
PATRICK PETR OPER

TXP Oper. 67%  
SHV O&G,  
etal 34%  
49991 2.1.92

M. K. BARTLEY  
EL 55387 G  
TD 6275  
Buff Canyon  
U.S.

55626  
(11)

Getty 50%  
Chorney 25%  
W. Armor 25%  
56327 2.1.95

U. S.

57470  
(7)

57470  
(7)

6330

20894  
(14)

18

17

16

Skyline Oil  
20895 12.19.86

U. S.

U. S.

State

SKELLY Oil  
EL 5245 KB  
TD 6234  
R. J. PARKS

72664  
U-56186  
10-1-95

TXP, etal 67%  
R. Chorney 33%  
49833 5.1.89

24

21

U. S.

U. S.

U. S.

U. S.

Welpet  
52656  
3.1.94

Tricentrol 50%  
Tenneco, etal 50%  
42478 4.1.89

20895  
(24)

ML4028  
(29)

57470  
(7)

40361  
(31)

40361  
(31)

State

Richard E. Perkins  
U. S. Min

57470  
(7)

Champlin  
ML40298  
11.1.92

State

25

30

29

28

U. S.

U. S.

U. S.

U. S.

R. Duncan  
ML40301  
4.11.93(St)

Houston Oil &  
Minerals Corp.  
40361 7.1.88

Champlin  
ML40302 11.1.92

40361  
(31)

36

31

32

33

State

U. S.

State

U. S.

Exhibit E

ALKALI

CLS Oil

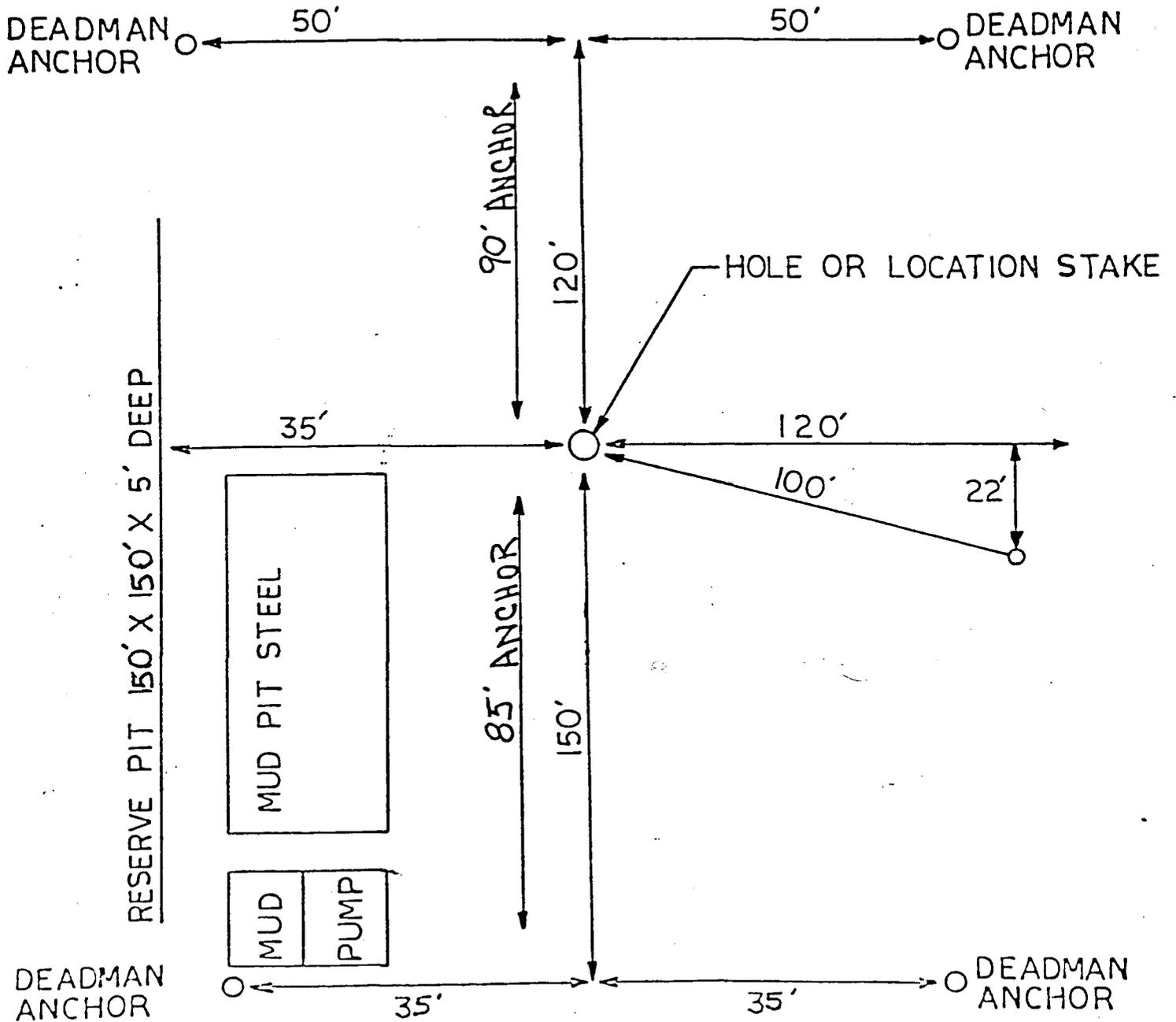
Pioneer O&G

Arnolds

Exhibit C

COLEMAN DRILLING CO.

FRONT OF RIG NO. 3



# FILING FOR WATER IN THE STATE OF UTAH

Rec. by CF  
 Fee Paid \$ 15.00  
 Platted 21567  
 Microfilmed \_\_\_\_\_  
 Roll # \_\_\_\_\_

DEC 23 1986

## APPLICATION TO APPROPRIATE WATER

**DIVISION OF OIL** For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of the Laws of Utah.

WATER USER CLAIM NO. 09 - 1493

APPLICATION NO. T62207

1. PRIORITY OF RIGHT: December 12, 1986

FILING DATE: December 12, 1986

2. OWNER INFORMATION

Name: ABO Petroleum Corporation  
 Address: 105 South Fourth Street, Artesia, NM 88210  
 The land is not owned by the applicant(s), see explanatory.

3. QUANTITY OF WATER: 5.0 acre feet (Ac. Ft.)

4. SOURCE: Artesian Well DRAINAGE: San Juan River

POINT(S) OF DIVERSION: COUNTY: San Juan

(1) N. 50 feet, W. 480 feet, from the E $\frac{1}{4}$  Corner of Section 12,  
 Township 38 S, Range 24 E, SLB&M  
 Description of Diverting Works: 8 inch diameter well 506 ft.

COMMON DESCRIPTION: 7.5 mi. No. Hatch Trading Post

5. STORAGE

Water is to be stored in Unnamed reservoir from January 1 to December 31.  
 Capacity 5.0 ac.ft. Inundating 0.25 acres. Height of dam feet.  
 The area inundated by the reservoir includes all or part of each of the following legal subdivisions.

TOWN	RANGE	SEC	North East Quarter				North West Quarter				South West Quarter				South East Quarter			
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
38 S	24 E	12	X															

All locations in Salt Lake Base and Meridian

6. NATURE AND PERIOD OF USE

Oil Exploration From December 15 to December 15.

7. PURPOSE AND EXTENT OF USE

Oil Exploratio: Oil well drilling

8. PLACE OF USE

The water is used in all or parts of each of the following legal subdivisions.

TOWN	RANGE	SEC	North East Quarter				North West Quarter				South West Quarter				South East Quarter			
			NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$	NE $\frac{1}{4}$	NW $\frac{1}{4}$	SW $\frac{1}{4}$	SE $\frac{1}{4}$
38 S	24 E	19		X											X	X		

All locations in Salt Lake Base and Meridian

EXPLANATORY

Appropriate

# CONFIDENTIAL

010704

OPERATOR Alto Petroleum Corp. DATE 1-2-87

WELL NAME Arabian Fed. 6

SEC 5W NE 19 T 38S R 24E COUNTY San Juan

43-037-31302  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'  
Water of # 09-1493 (T62207)  
Exception location requested

APPROVAL LETTER:

SPACING:  203 \_\_\_\_\_ UNIT

302

\_\_\_\_\_ CAUSE NO. & DATE

302.1

STIPULATIONS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

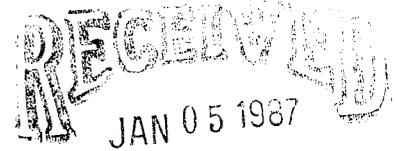


010890

S. P. YATES  
PRESIDENT  
JOHN A. YATES  
VICE PRESIDENT  
B. W. HARPER  
SEC. - TREAS.

105 SOUTH FOURTH STREET  
ARTESIA, NEW MEXICO 88210  
TELEPHONE (505) 748-1471

January 2, 1987



DIVISION OF  
OIL, GAS & MINING

BLM  
P. O. Box 970  
Moab, UT 84532

ATTENTION: Carol Frudiger

RE: YPC's McCracken Spring #3-31  
Abo Petroleum Corporation's:  
Arabian Federal #4, 5 & 6  
San Juan County, Utah

Dear Ms. Frudiger:

The application for permit to drill on the above captioned wells got out of our office without being marked TITE HOLE. These wells are Tite Holes and we would like these wells to be kept confidential.

Thank you for your cooperation in this matter.

If you have any questions, please do not hesitate to call.

Sincerely yours,

YATES PETROLEUM CORPORATION

  
Rusty Jernigan  
Regulatory Secretary

rj

cc: State of Utah  
Division of Oil, Gas & Mining  
355 W. North Temple  
3 Triad Center  
Suite 350  
Salt Lake City, UT 84180-1203  
ATTENTION: Arlene Sollis



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

January 5, 1987

Abo Petroleum Corporation  
105 South Fourth Street  
Artesia, New Mexico 88210

Gentlemen:

Re: Arabian Federal 6 - SW NE Sec. 19, T. 38S, R. 24E  
2195' FNL, 2180' FEL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302.1, Oil and Gas Conservation General Rules.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.
5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at the drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.

Page 2  
Abo Petroleum Corporation  
Arabian Federal 6  
January 5, 1987

6. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31302.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

Abo Petroleum Corporation

3. ADDRESS OF OPERATOR

105 South Fourth Street - Artesia, NM 88210

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

At surface 2195' FNL & 2180' FEL

At proposed prod. zone

Same

DIVISION OF  
UNORTHODOX LOCATION GAS & MINING

PROPER PAPERWORK HAS BEEN SENT TO STATE OF UTAH

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

Approximately 5 miles north of Hatch Trading Post

15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2195'

16. NO. OF ACRES IN LEASE

3300

17. NO. OF ACRES ASSIGNED TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

1300'

19. PROPOSED DEPTH

6105'

20. ROTARY OR CABLE TOOLS

Rotary

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

5107' GR

22. APPROX. DATE WORK WILL START\*

ASAP

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48# H-40	Approx. 100'	50 sacks
12-1/4"	8-5/8"	24# J-55	" 2010'	800 sacks
7-7/8"	5-1/2"	15.5# J-55	TD	400 sacks

CONFIDENTIAL

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 Cy Cowan TITLE Regulatory Agent DATE Dec. 19, 1986

(This space for Federal or State office use)

PERMIT NO. Kenneth V. Rhea APPROVAL DATE JAN 02 1987  
TITILE Acting DISTRICT MANAGER DATE JAN 02 1987

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

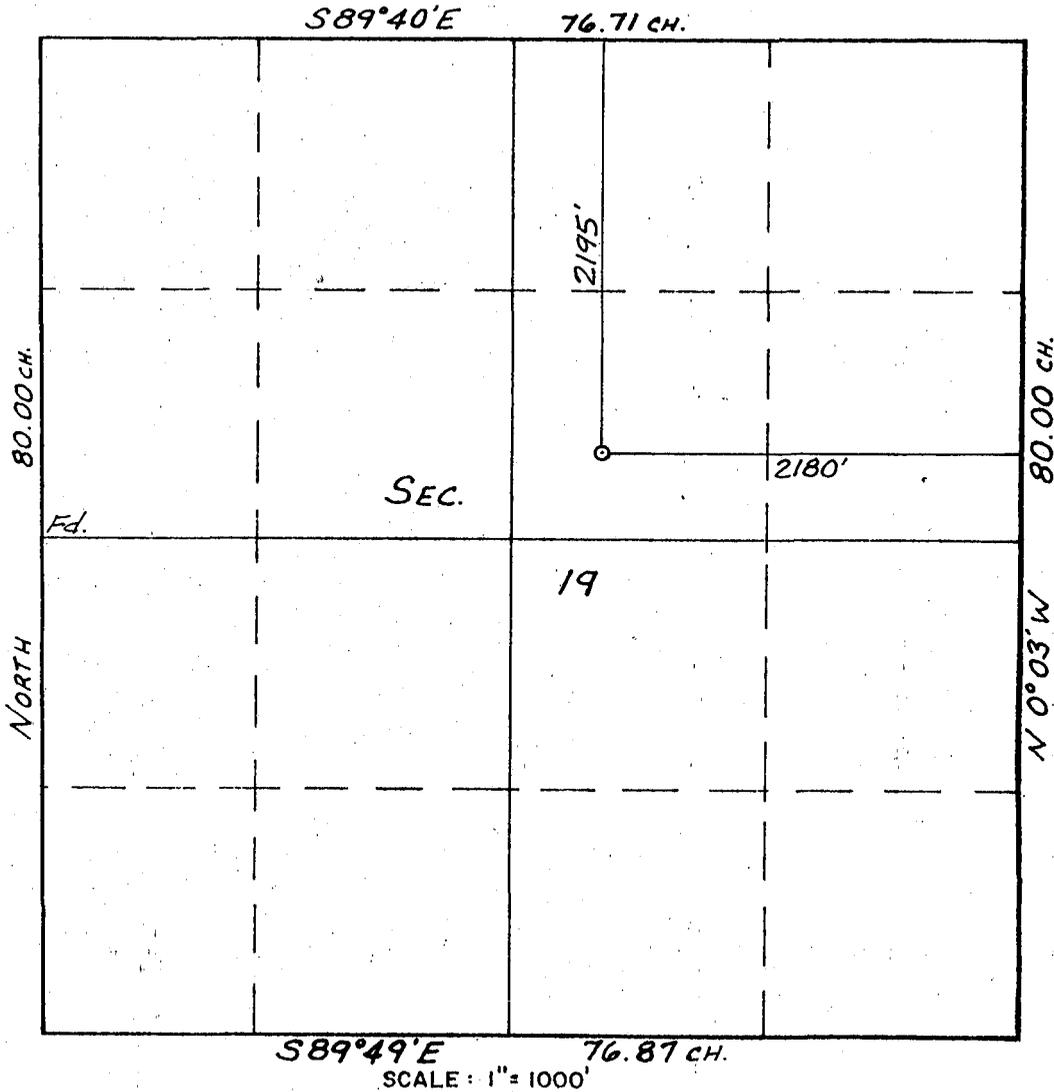
FLARING OR VENTING OF  
GAS IS SUBJECT OF NTL 4-A  
DATED 1/1/80

CONDITIONS OF APPROVAL ATTACHED

\*See Instructions 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 or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

COMPANY ABO PETROLEUM CORPORATION  
 LEASE ARABIAN FEDERAL WELL NO. 6  
 SEC. .19, T. 38 S, R. 24 E  
 COUNTY San Juan STATE Utah  
 LOCATION 2195' FNL & 2180' FEL  
 ELEVATION 5107



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD  
 NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION  
 AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY  
 KNOWLEDGE AND BELIEF.

SEAL:



*William E. Mahnke II*  
 WILLIAM E. MAHNKE II  
 NEW MEXICO P.L.S. Nº 8466

SURVEYED DEC. 8, 1986

Abo Petroleum Corporation  
Well No. Arabian Federal 6  
Sec. 19, T. 38 S., R. 24 E.  
San Juan County, Utah  
Lease U-56186

CONDITIONS OF APPROVAL

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 conduct operations thereon.

Abo Petroleum Corporation is the bonded entity as designated operator on this application. If any assignments or designations change, liability will remain with Abo Petroleum Corporation until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

B. SURFACE USE PLAN

The road constructed by Meridian Oil, Inc., in the North half of Section 19 will be used for access. While drilling, Abo Petroleum Corporation will be required to maintain this road in as good of or better condition than the road is on the date their activity begins. In the event of production, a joint road maintenance agreement will be signed by both companies to meet the Class III Road Standards in the APD.

Your contact with the District Office is:

Greg Noble, Petroleum Engineer

Office Phone: (801) 259-6111

Home Phone: (801) 259-8811

\_\_\_\_\_, Petroleum Engineer

Office Phone: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Address:

82 East Dogwood, P. O. Box 970  
Moab, Utah 84532

Your contact with the San Juan Resource Area Office is:

Rich McClure, Natural Resource Specialist

Office Phone: (801) 587-2141

Home Phone: (801) 587-2874

Address:

435 North Main, P. O. Box 7  
Monticello, Utah 84535

38 S 24E

sec. 19

43-037-31287 Pow

43-037-31314 Drl. (cont.)

43-037-31301 Drl. (cont.)

43-037-31282 Pow

43-037-31278 Pow

43-037-31302 Drl. (~~cont.~~)

43-037-31296 Drl. (cont.)

~~43-037-31295~~

43-037-31300 Drl. (cont.)

3046

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE

REC'D MCO '49 10 1984

020831

OIL OR HAZARDOUS SUBSTANCE DISCHARGE

1. Investigation Number \_\_\_\_\_ Date of Spill 1-26-88 Time AM (Military)  
Spill Notification: by \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
Investigators NONE YET  
Investigation Date \_\_\_\_\_ Time \_\_\_\_\_ Investigation Time (man/hrs) \_\_\_\_\_  
EPA Notification NA State Division of Health Notification NA

2. Place of spill ALKALI CANYON  
Legal Description T385 R24E Sec 19  
County SAN JUAN Nearest town BLANDING UTAH  
Did spill enter a waterway? NO If so, name \_\_\_\_\_ class \_\_\_\_\_  
Extent of spill 230 BARRELS  
Type of spill (Region VII: Contingency Plan Definitions) major \_\_\_\_\_ medium /  
minor \_\_\_\_\_  
Responsible Polluter MEDIUM OIL Address PILLINGS MOUNT  
Contact Person (if known) BILL GROWN Phone number 466 256 4.21

Type of Operation - check one:

Pipeline \_\_\_\_\_ Tank Battery X  
Drilling \_\_\_\_\_ Transportation \_\_\_\_\_  
Refinery \_\_\_\_\_ List Vehicle \_\_\_\_\_  
Other \_\_\_\_\_

Type of Oil or Product and Amount:

Gasoline \_\_\_\_\_ Crude X  
Kerosene \_\_\_\_\_ Other \_\_\_\_\_  
(RETURN)

Cause of spill LEAK IN LINE FROM LAC METER TO SLOP TANK  
LEST OIL CONTAINED WITHIN FIREWALL.

3. Draw a simple map showing permanent landmarks and extent of spill on the reverse side of this page.

4. Cleanup Operations: Date of Cleanup Completion 1-26-88 Time \_\_\_\_\_

Methods - check those which apply:

Burning X Absorption \_\_\_\_\_  
Skimming X Burial X  
Pumping X Other (explain) \_\_\_\_\_

Brief summary of cleanup operation (problem, etc.)

OIL CONTAINED WITHIN FIREWALL - WILL BE PUMPED OUT. REMAINING OIL WILL BE BURNED AND ANY RESIDUE REMOVED TO RESERVE PIT ON 42-24

5. Remarks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

COMPANY: ABC PETROLEUM UT ACCOUNT # \_\_\_\_\_ SUSPENSE DATE: \_\_\_\_\_

WELL NAME: ARABIAN FED 6

TELEPHONE CONTACT DOCUMENTATION

API #: 4303731302

CONTACT NAME: \_\_\_\_\_

SEC, TWP, RNG: 19 38S 24E

CONTACT TELEPHONE NO.: \_\_\_\_\_

SUBJECT: IS WELL READY TO LA?

(Use attachments if necessary)

RESULTS: HOLD UNTIL BLM LA'S.

(Use attachments if necessary)

CONTACTED BY: VC

DATE: 3-7-80

APR 11 1988

DIVISION OF  
OIL, GAS & MINING

Moab District  
P. O. Box 970  
Moab, Utah 84532

3162 (U-065)  
(U-56186)

APR 7 1988

Abo Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210

Re: Rescinding Application for  
Permit to Drill  
Well No. Arabian Federal 6  
Sec. 19, T. 38 S., R. 24 E.  
San Juan County, Utah  
Lease U-56186

13-037-31300

Gentlemen:

The Application for Permit to Drill the referenced well was approved on January 2, 1987. Since that date, no known activity has transpired at the approved location.

Applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill this location at a future date, a new application for permit to drill must be submitted.

If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely yours,

/s/ GENE NODINE

District Manager

cc:

State of Utah, Division of Oil, Gas and Mining ✓  
San Juan Resource Area

bcc:

U-942, Utah State Office

CFreudiger/cf 4/7/88



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

April 21, 198<sup>8</sup>7

Abo Petroleum Corporation  
105 South Fourth Street  
Artesia, NM 88210

Gentlemen:

Re: Arabian Federal 6, Sec.19, T.38S, R.24E,  
San Juan County, Utah, API No. 43-037-31302

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

A handwritten signature in cursive script that reads "John R. Baza".

John R. Baza  
Petroleum Engineer

tc  
cc: BLM-Moab  
D. R. Nielson  
R. J. Firth  
Well file  
0327T-36