

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE X WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/ABD. _____

DATE FILED 2-1-80

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-01058B INDIAN _____

DRILLING APPROVED: 2-8-80

SPUDDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: 4436' gw

DATE ABANDONED: 4-22-80 LOCATION ABANDONED-WELL NEVER DRILLED

FIELD: Wildcat 3/86 Undesignated

UNIT: _____

COUNTY: San Juan

WELL NO. Federal 1-19B

API NO: 43-037-30536

LOCATION 900' FT. FROM (N) ~~19~~ LINE. 2390' FT. FROM (E) ~~19~~ LINE. NW NE $\frac{1}{4}$ - $\frac{1}{4}$ SEC. 19

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<u>40S</u>	<u>23E</u>	<u>19</u>	<u>WILLIAM W. WHITLEY</u>				

FILE NOTATIONS

Entered in NID File

Checked by Chief

Entered On S R Sheet

Copy NID to Field Office

Location Map Pinned

Approval Letter

C _____

Disapproval Letter

1 _____
State or Fee Land

STATISTICAL DATA:

Completed

Location Inspected

WW

TA

Bond released

State of Fee Land

OS

PA

LOGS FILED

Driller's Log _____

Electric Logs (No.) _____

E

I

E-I

GR

GR-N

Micro

Lat

MI-L

Sonic

Others

LWP
5-10-9



P&M

PETROLEUM
MANAGEMENT

SUITE 1705 · 1600 BROADWAY · DENVER · COLORADO 80202 · PHONE (303) 861 2470

January 30, 1980

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: #1-19B Federal
NW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 19-T40S-R23E
San Juan County, Utah
Lease No. U-01058B

Dear Sirs:

Attached is a copy of the Application for Permit to Drill the subject well which I have previously filed with the U.S.G.S. This copy is for your records.

If you have any questions or need further information, please let me know.

Very truly yours,

Robert W. Peterson
sas

ROBERT W. PETERSON

sas

Attachment

RECEIVED

FEB 01 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-01058B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-19B

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
19-T40S-R23E

12. COUNTY OR PARISH | 13. STATE
San Juan | Utah

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
WILLIAM W. WHITLEY

3. ADDRESS OF OPERATOR
1600 Broadway, Suite 1705, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 900' FNL, 2390' FEL (NW $\frac{1}{2}$ NE $\frac{1}{4}$)
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Ten Miles southeast of Bluff, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 250'

16. NO. OF ACRES IN LEASE 480.00

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. None

19. PROPOSED DEPTH 5750' Desert Creek

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4436' G.L.

22. APPROX. DATE WORK WILL START* March 1, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 $\frac{1}{2}$ "	13-3/8"	32.75 lb.	200'	40 sx.
12-1/4"	8-5/8"	24.00 lb.	900'	350 sx.
7-7/8"	5-1/2"	14 & 15.5 lb.	5600'	150 sx.
-OR-				
7-7/8"	4-1/2"	10.5 lb.	5600'	150 sx.

- The well will be spudded in the Morrison Formation.
- The estimated tops of important geological formations are as follows:

Entrada	430'	Moen Kopi	2205'
Carmel	480'	Cutler	2440'
Navajo	530'	Hermosa	4420'
Kayenta	935'	Ismay	5328'
Wingate	995'	Lower Ismay	5449'
Chinle	1388'	"C" Shale	5509'
Shinarump	2190'	Desert Creek	5549'

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 Robert W. Peterson TITLE Petroleum Engineer DATE January 24, 1980

(This space for Federal or State office use)
PERMIT NO. 43-037-30536 APPROVAL DATE 2-8-80

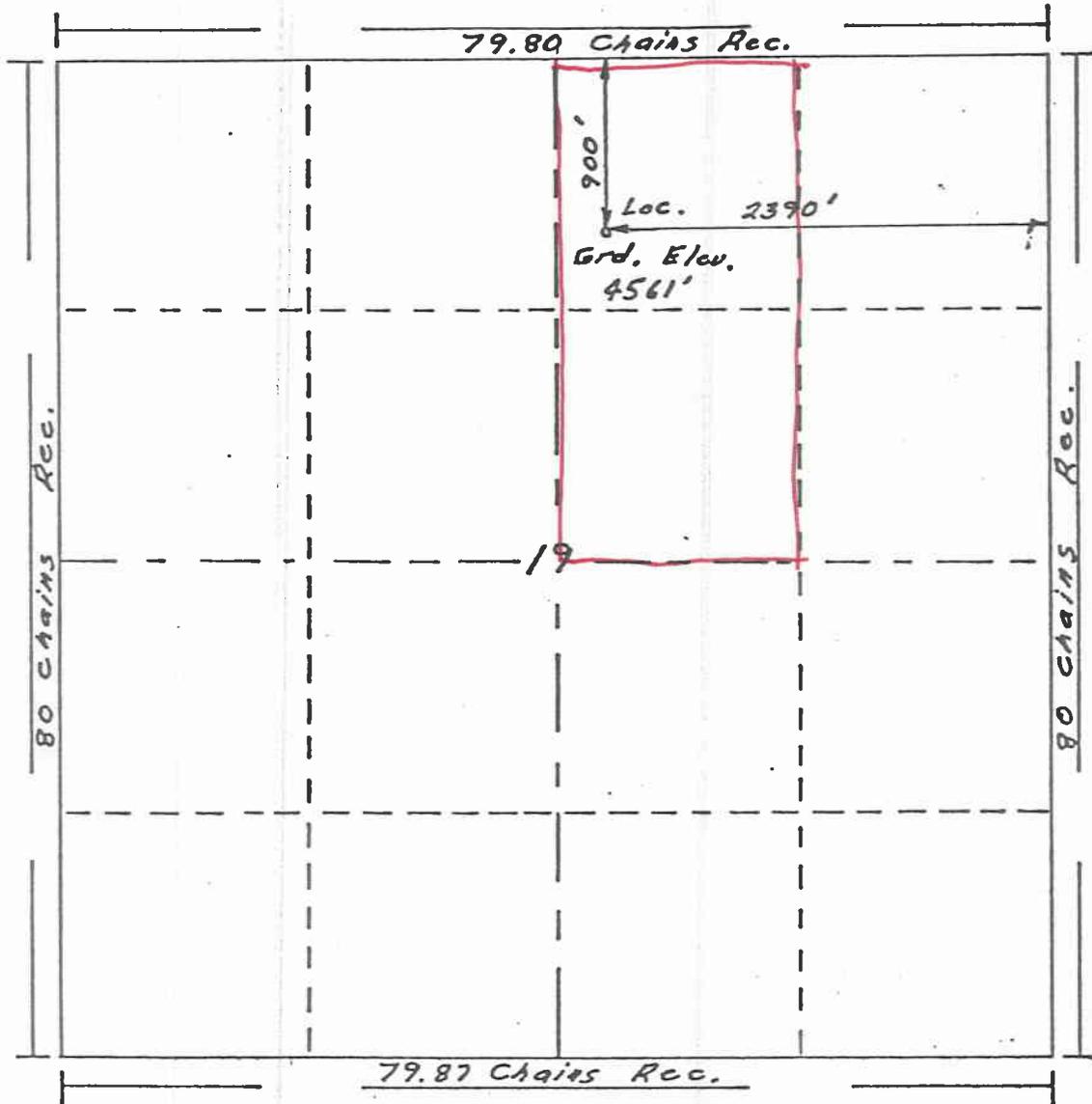
APPROVED BY _____ TITLE _____ DATE FEB 01 1980

CONDITIONS OF APPROVAL, IF ANY:

RECEIVED
FEB 01 1980
DIVISION OF OIL, GAS & MINING



R. 23 E.



T. 40.

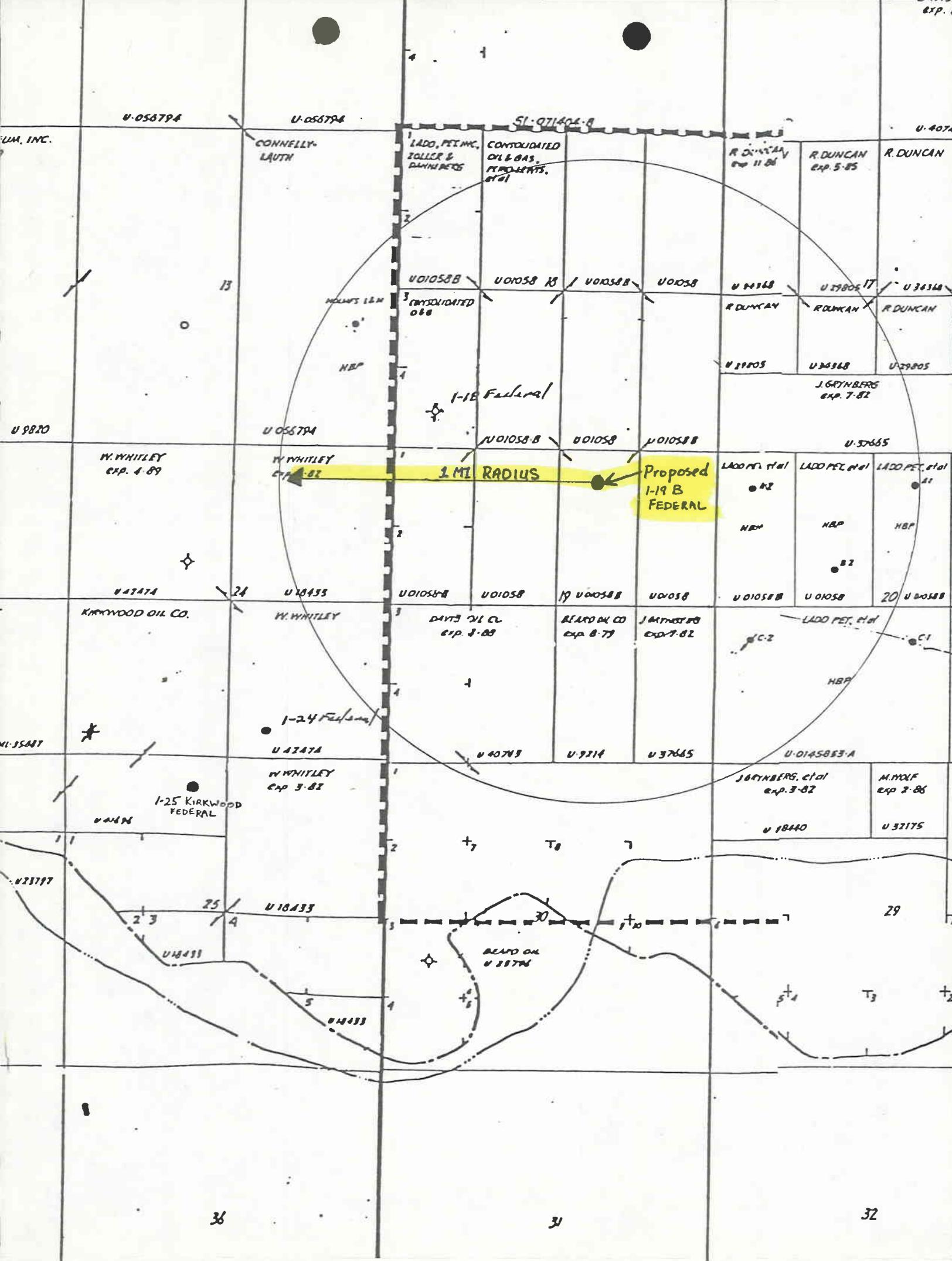
Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from *Wm. Whitley*
 for *Wm. Whitley*
 determined the location of #1-19B Federal
 to be 900' FNL & 2390 FEL Section 19 Township 40 South
 Range 23 East Salt Lake Meridian
 San Juan County, Utah

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of

Date: 28 Dec '79

J. Tolson
 Licensed Land Surveyor No. 2711
 State of Utah



- SAN JUAN COUNTY, UTAH -

EXHIBIT "C"

WILLIAM W. WHITLEY

#1-25 FEDERAL
NW $\frac{1}{4}$ NE $\frac{1}{4}$ (900' FNL & 2390' FEL) Sec. 19, T40S, R23E
San Juan County, Utah

NTL-6 MULTIPOINT REQUIREMENTS

SURFACE USE PLAN

1. Existing Roads

A portion of a U.S. Geological Survey map is attached as Exhibit "A" showing existing roads.

- A. The location plat is attached as Exhibit "B" which shows the location as staked. The well will be drilled in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ (900' FNL & 2390' FEL) of Section 19, Township 40 South, Range 23 East, San Juan County, Utah.
- B. The location is 10.7 miles from Utah State Highway 262 which is paved. The 10.7 miles is on an existing oil field road (Bluff Bench Road) which is used for access to Recapture Creek oil field. The road is shown on the map (Exhibit "A") in red. The road starts at Montezuma Creek and continues west and connects again with Utah Highway 163 about one mile southeast of Bluff, Utah.
- C. No access road will be necessary because the location is just off the present Bluff Bench Road.
- D. All existing roads within a one-mile radius are shown on the attached Exhibit "A".
- E. No improvements are planned for the existing access road since it will be only about 100' long.

2. Planned Access Road

- A. No access road is necessary since the location is located right alongside the Bluff Bench Road. A road presently exists which goes within 30' of the proposed location. No roadwork will be necessary to drill the well. If the well is successful, it may be necessary to blade the road up approximately 18 inches, approximately 20' wide.

- B. No access road is required so the grade of road is not applicable.
- C. No turnouts will be necessary.
- D. No drainage will be necessary.
- E. No culverts or major cuts or fills will be necessary.
- F. No road surfacing materials will be required.
- G. No gates, cattleguards, or fence cuts will be required.
- H. It will not be necessary to build an access road so no flagging will be necessary.

3. Location of Existing Wells (Exhibit "C")

For all existing wells within a one-mile radius of this well.

- A. There are no water wells within a one-mile radius of this location.
- B. There is 1 plugged and abandoned well within a one-mile radius of this location, in the SW $\frac{1}{4}$ SW $\frac{1}{4}$, Sec. 18, T40S-R23E.
- C. There are no temporarily abandoned wells within a one-mile radius of this well.
- D. There are no disposal wells within a one-mile radius of this well.
- E. There are no wells presently being drilled within a one-mile radius of this proposed location.
- F. There are three producing wells located within a one-mile radius of this proposed well. They are located as follows:
NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 13, T40S- R22E; NW $\frac{1}{4}$ NW $\frac{1}{4}$ and SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 20, T40S-R23E, San Juan County, Utah.
- G. There are no shut-in wells located within a one-mile radius of this proposed location.
- H. There is one injection well located within a one-mile radius of this proposed location, in the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Sec. 20, T40S-R23E, San Juan County, Utah.
- I. There are no monitoring or observation wells for other uses located within a one-mile radius of this proposed location.

4. Location of Existing and/or Proposed Facilities

A. Within a one-mile radius of location the following existing facilities are owned or controlled by lessee/operator:

- 1) Tank Batteries: None
- 2) Production Facilities: None
- 3) Oil Gathering Lines: None
- 4) Gas Gathering Lines: None
- 5) Injection Lines: None
- 6) Disposal Lines: None

B. If production is obtained, new facilities will be as follows: A pumping unit, engine, heater treater, separator, flowline and tank battery will be required; the tank battery will be located on the drilling pad.

- 1) The tank battery will consist of two or three 400-barrel welded tanks as shown on Exhibit "D" and a 4' x 20' or 6' x 20' vertical treater. The treater will be located at least 125 feet from the wellhead and the stock tanks will be located at least 125 feet from the wellhead and the treater. The production facilities will be painted a buff color to blend in with the natural color of the area.
- 2) Exhibit "D" shows the location and dimensions of the proposed facilities.
- 3) The oil and gas flow lines will be 3" fiberglass or steel lines wrapped with a plastic protective coating buried 3 feet deep. The circulating line will be 2" in diameter steel line also buried. When the pumping unit is installed, it will be installed on a gravel pad with a wide base.
- 4) The production pit will be fenced. If the well produces over 5 BWPD, the production pit will be lined and flagged unless the water is fresh. The pumping unit will have guard rails installed around the crank weights and belt guards will be installed over the V-belts from the engine to the pumping unit. A siphon pit will be installed ahead of the water disposal pit if the well produces any water.

C. Plan for Rehabilitation of Disturbed Areas no longer needed for Operations:

The reserve pit will be backfilled and recontoured to the original contour as close as practical and the topsoil replaced. If the well is plugged and abandoned, the location will be leveled and the topsoil replaced. All foreign material will be buried in the reserve pit.

The topsoil will be reseeded in a native grass seed mixture recommended by the Bureau of Land Management. The reseeded will be done at the appropriate time of year so that seeds will germinate properly. The same procedure will be followed for the location pad and access road if the well is plugged and abandoned.

5. Location and Type of Water Supply

The drilling water will be hauled by truck from a water hole existing approximately 2.9 miles southwest of proposed wellsite. There is an existing road going directly to the waterhole. If the weather is abnormally wet it may be necessary to haul the water from Recapture Creek on an existing road.

6. Source of Construction Materials

The only construction materials necessary will be gravel purchased from and hauled in by a commercial source for a wide based pumping unit.

7. Method of Handling Waste Disposal

- A. Cuttings: Drill cuttings will be contained in the reserve pit.
- B. Drilling fluids: Drilling fluids will be contained in steel mud tanks and the reserve pit. The reserve pit will be fenced if it cannot be backfilled immediately after the well is drilled.
- C. Any produced oil will be contained in steel swab or test tanks. Produced water, if any, will be contained in the production pit after the well is completed and in swab tanks or the reserve pit until the well is completed and the battery is installed.
- D. Sewage will be disposed in the reserve pit or sanitary holes.
- E. Garbage and waste material will be contained in the trash pit to be dug by a backhoe. The trash pit will be fenced and covered with a mesh fence.
- F. The wellsite will be policed of all foreign material after the drilling and completion rigs are moved off. All trash will be burned or buried. The reserve pit will be backfilled and reseeded.

8. Ancillary Facilities

Not applicable.

9. Wellsite Layout

- A. See attached Exhibit "D" for cuts and fills in the drillsite location.
- B. The layout of the rig is shown on Exhibit "E".
- C. The rig orientation, parking areas and entrance of access road are shown on Exhibit "E".
- D. The reserve pit will not be lined. The water disposal pit will be lined if the well produces over 5 BWPD.

E. The location of the production facilities is shown on Exhibit "D" attached.

10. Plans for Restoration of Surface

- A. The reserve pit will be backfilled and recontoured to the original contour as closely as practical and the topsoil replaced. The location will be leveled and topsoil replaced. All foreign material will be buried in the reserve pit.
- B. The topsoil will be replaced and reseeded to native grasses according to the BLM's specifications on all the unused portions of the location and all of the reserve pit. In case of a dryhole the road will be reseeded unless the surface owner wishes to use it.
- C. The reserve pit will be fenced as soon as the rig is moved off and until it is backfilled. The reserve pit will be backfilled as soon as it dries up enough.
- D. If any oil is left on the reserve pit, it will be removed or the pit flagged.
- E. The reserve pit will be backfilled just as soon as it dries up enough and the weather permits. The location will be leveled as soon as the rig moves off if the well is plugged and abandoned or after production operations are suspended if the well is a producer. The topsoil will be replaced and the location will be reseeded when the weather is right after the location is restored.
- F. The well is planned to be drilled during March if a rig is available. The rehabilitation operations should be completed by early fall.

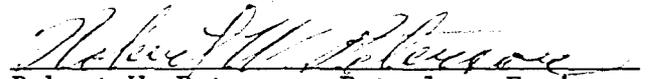
11. Other Information

- A. The topography in the general area is rough although this location needs no access road. The soil is very sandy and should be easy to doze and should not cause any problems even in prolonged wet weather. The surface of this location is about 40 percent bare, 5 percent brown snake weed, 10 percent Russian thistle, 10 percent Mormon Tea and 20 percent native grass and 15 percent black sage brush. The well will be spudded in the Morrison formation.
- B. The surface is very arid and the only thing the land could be used for is sheep or cattle grazing. The surface is owned by the Federal Government.
- C. No occupied buildings, historical sites, cultural sites or archeological sites are evident from inspecting this location or the access roads.

12. Lessee's or Operator's Representative

The Operator's field representative who will be responsible for compliance with the Surface Use and Operations Plan is Robert W. Peterson. Mr. Peterson can be reached by telephone at (303) 861-2470. If Mr. Peterson cannot be reached, Mr. John Steele will be responsible for compliance. Mr. Steele can be reached by telephone at (303) 355-1422.

13. 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 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 William W. Whitley, and William W. Whitley's contractors and sub-contractors in conformity with this plan and terms and conditions under which it is approved.


Robert W. Peterson, Petroleum Engineer

Dated: January 24, 1980

RWP:sas

Attachments

3. Proposed Casing Program:
 - A. Conductor Pipe: 200', 13-3/8", 32.75#, K-55, 8 rd. th., ST&C New casing.
 - B. Surface Casing: Approx. 900' of 8-5/8", 24#, K-55, ST&C, 8 rd. th., New casing would be run and cemented to surface, if Navajo flowing water is encountered.
 - C. Production Casing: 5 1/2", 14#, and 15.5#, K-55, ST&C, 8 rd. th., New casing or 4 1/2", 10.5#, K-55, LT&C, 8 rd. th., New casing.
4. Estimated depths of anticipated water, oil or gas zones:
 - A. Navajo Sand 530' (Fresh water)
 - B. Lower Ismay 5449' (Oil)
 - C. Desert Creek 5549' (Oil)
5. The casinghead will be a flanged 13-3/8" x 10", 900 Series, 3000 psi working pressure type. The blowout preventer will be a 10", 900 Series, 3000 psi working pressure with 4 1/2" pipe rams and blind rams with a remote hydraulic closing unit. The blowout preventer arrangement will include a kill line and choke manifold as shown in Exhibit "F" in the schematic diagram. The BOP will be tested to 1000 psi prior to drilling out the cement plug in the surface casing and once during each tour.
6. Clear water with drilling detergent will be used for a circulating medium to about 2000' depth. The well will then be mudded up properly before drilling the Ismay formation. The mud will be a fresh water gel chemical type mud. The mud weight will be maintained at about 9.5 lbs./gal., viscosity 35 to 45 sec./qt., and water loss 6 to 8 cc.
7. The following auxiliary drilling equipment will be utilized or available:
 - A. Kelly cock
 - B. Float valve above bit
 - C. A 3000-psi W.P. full opening valve will be screwed into a 4 1/2" drillpipe sub to be used as a stabbing valve.
 - D. No mud monitoring equipment will be used.
8. No cores are planned on this well. Lower Ismay and Desert Creek porosity with oil shows will be drillstem tested. An Induction Electric log will be run from total depth to the base of any casing. A Borehole Compensated Sonic-Gamma Ray Caliper log will be run over any indicated porosity zones with oil shows.
9. No abnormal pressures or temperatures are encountered in the immediate area. The pressure gradient in the Lower Ismay and Desert Creek porosity zones are about 0.388 psi/ft. depth. No hydrogen sulfide has been encountered in the Ismay, Desert Creek or shallower zones in this area.
10. The perforations in either the Ismay or Desert Creek formations will be acidized unless an adequate flow of hydrocarbons into the wellbore is obtained by perforating only. The acid treatments should not be over 500 gallons of acid per foot of perforations. Normal treating pressures are anticipated. If flammable liquids are

used to treat the well, the pumping equipment will be at least 120 feet from the wellhead and the pumping equipment at least 120 feet from the storage tanks.

11. It is planned to spud this well in the first half of March, 1980.

RIG No. 19

CACTUS DRILLING CORP.

APPROX SCALE 1" = 50'

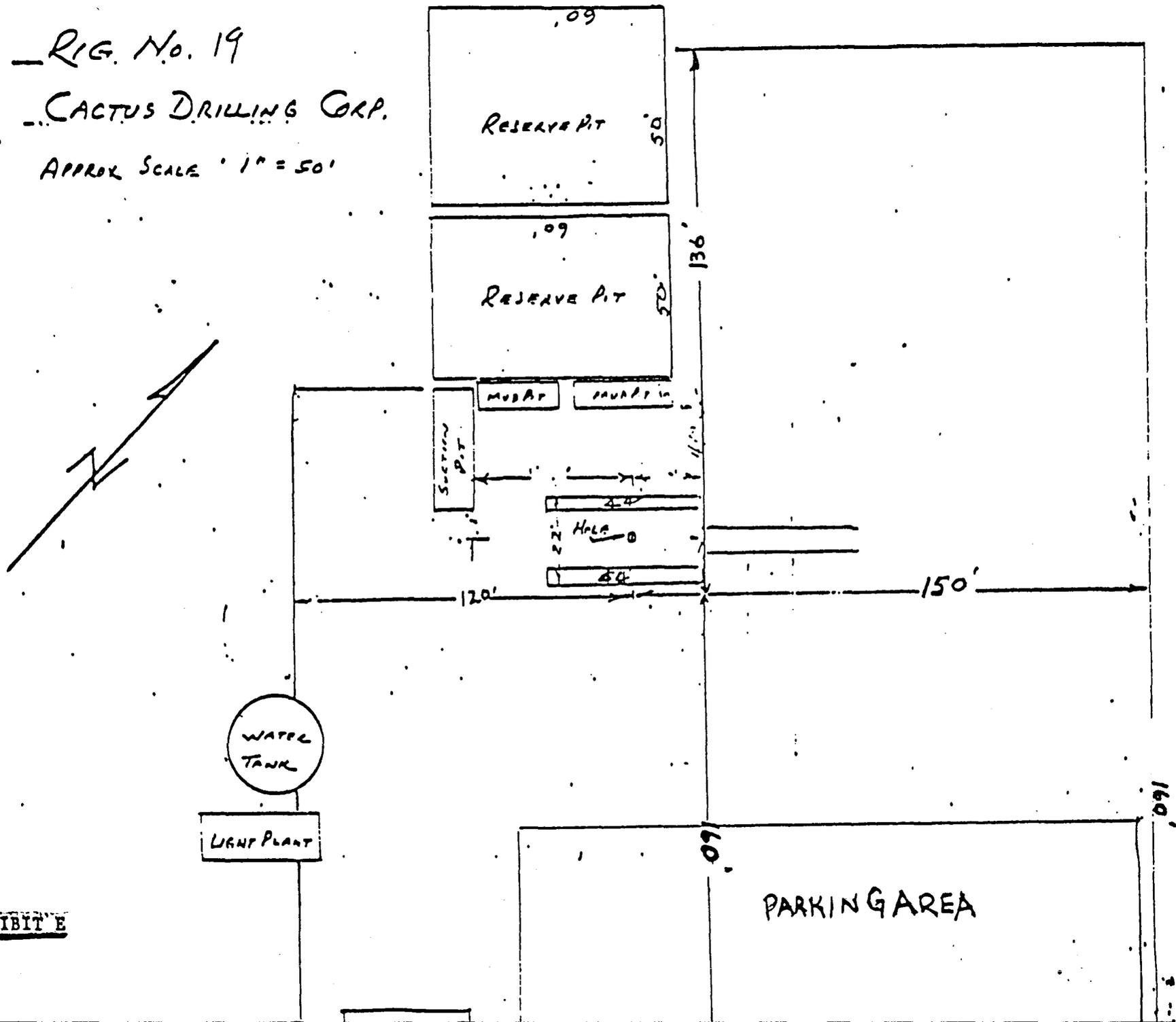
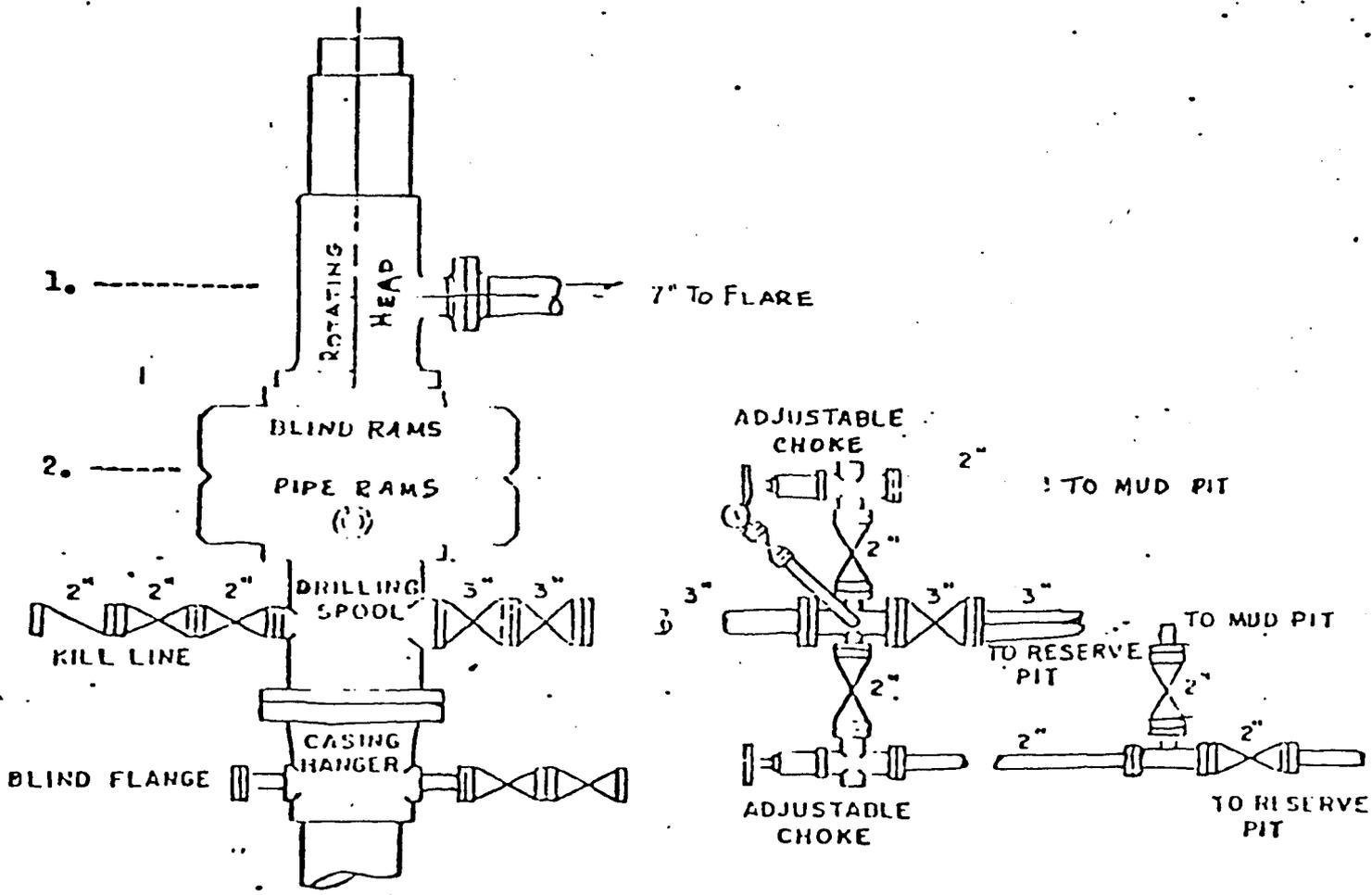


EXHIBIT E



1. Shaffer Type 51 Rotating Head

2. Shaffer 12" 900 Series Type 48 Double Hydraulic

** FILE NOTATIONS **

DATE: February 4, 1980

Operator: William W. Whitley

Well No: Federal #1-19B

Location: Sec. 19 T. 40S R. 23E County: San Juan

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-037-30536

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: _____

Director: OK provided request top exception 2 own acreage must be 500' from qtr qtr - topo exception required w/ 660'

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 85 2/14/63

O.K. Rule C-3

#3 plus statement

Rule C-3(c), Topographic Exception/company owns or controls acreage within a 660' radius of proposed site

Lease Designation Good

Plotted on Map

Approval Letter Written

Wtm

NE
PI

Federal Building
701 Camino del Rio
Durango, Colorado 81301

April 22, 1980

William W. Whitley
1600 Broadway, Suite 1705
Denver, Colorado 80202

LOCATION ABANDON

Dear Mr. Whitley:

By telephone April 21, 1980, you advised this office that you would not drill Well No. 1-19B Federal, located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 19, T. 40 S., R. 23 E., SLM, San Juan County, Utah on Federal oil and gas lease U. 01058B. Application for Permit to Drill had not been approved, and access road and well pad had not been constructed.

Your Application for Permit to Drill is cancelled and returned herewith unapproved. If at some later date you decide to drill a well at this location, it will be necessary to submit a new application.

Sincerely yours,

James F. Sims
Acting District Engineer

Enclosure

cc: BLM Monticello
Utah Division of Oil, Gas & Mining

February 8, 1980

William W. Whitley
1600 Broadway, Suite 1705
Denver, Colorado 80202

Re: Well No. Federal #1919B
Sec. 19, T. 40S, R. 23E.,
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with the Order issued in Cause No. 85 dated February 14, 1963. However, this Division requires that a letter be sent to this office requesting a topographical exception and stating that William W. Whitley owns or controls the acreage within a 660' radius of the proposed well site.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Geological Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30536.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/b:tm

cc: USGS