

william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861·2469

July 28, 1989

RECEIVED
JUL 28 1989

U.S.G.S.
P. O. Box 1809
Durango, Colorado 81301

DIVISION OF
OIL, GAS & MINING

Attn: Mr. Carl A. Barrick

Re: 1-24 Kirkwood-Federal
TURNER BLUFF PROSPECT
Section 24-T40S-R22E,
NE/4 SW/4
San Juan County, Utah

Dear Mr. Barrick:

Enclosed are four (4) copies of the Application for Permit to Drill the 1-24 Kirkwood-Federal well in the NE/4 SW/4 of Section 24, T40S-R22E, San Juan County, Utah. Attached to the APD is the 10-point drilling program and the 13-point NTL-6 Surface Use Plan including exhibits "A" through "F".

As you have previously done, please forward one copy of the above to the Bureau of Land Management for their approval.

If you have any questions or require further information, please call me.

Very truly yours,

William W. Whitley

/ss
Enclosures 4

→ cc: State of Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
 * 1950' FSL and 1570' FWL, NE 1/4 SW 1/4
 At proposed prod. zone location change
 Same

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

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1070'

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 2150'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4502' G.L.

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"	32.75 lb.	40'	40 sx
12 1/2"	8-5/8"	24.00 lb.	1100'	350 sx
7-7/8"	5 1/2"	14 & 15.5 lb.	5670'	150 sx
Or				
7-7/8"	4 1/2"	10.5 lb.	5670'	150 sx

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

Entrada	300'	Moenkopi	2150'
Carmel	350'	Cutler	2385'
Navajo	402'	Hermosa	4397'
Kayenta	884'	Ismay	5305'
Wingate	960'	Lower Ismay	5426'
Chinle	1357'	"C" Shale	5486'
Shinarump	2100'	Desert Creek	5526'
		Total Depth	5670'

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. Roberts TITLE Petroleum Engineer DATE July 28, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY :

5. LEASE DESIGNATION AND SERIAL NO.
 U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Kirkwood Federal

9. WELL NO.
 # 2

10. FIELD AND POOL, OR WILDCAT
 Turner Bluff

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 24-T40S-R22E

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

*Copy - Perry McDonald
10-13-80*

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO. **U-41696**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME **Kirkwood Federal**

9. WELL NO. **1-24**

10. FIELD AND POOL, OR WILDCAT **Turner Bluff**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA **24-T40S-R22E**

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

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 **1950' FSL and 1570' FWL, NE 1/4 SW 1/4**
 At proposed prod. zone **2219' FSL & 1508' FWL**
Same

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

16. NO. OF ACRES IN LEASE **280.00**

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. **2150'**

19. PROPOSED DEPTH **5670'**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4502' G.L. 4494' GR

22. APPROX. DATE WORK WILL START*
September, 1980

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"	32.75 lb.	40'	40 sx
12 1/2"	8-5/8"	24.00 lb.	1100'	350 sx
7-7/8"	5 1/2"	14 & 15.5 lb.	5670'	150 sx
Or				
7-7/8"	4 1/2"	10.5 lb.	5670'	150 sx

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

Entrada	300'	Moenkopi	2150'
Carmel	350'	Cutler	2385'
Navajo	402'	Hermosa	4397'
Kayenta	884'	Ismay	5305'
Wingate	960'	Lower Ismay	5426'
Chinle	1357'	"C" Shale	5486'
Shinarump	2100'	Desert Creek	5526'
		Total Depth	5670'

Subject to
STIPULATIONS
ATTACHED

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. Wilcox TITLE Petroleum Engineer DATE July 28, 1980

(This space for Federal or State office use)

APPROVED

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY **OCT 9 1980** TITLE _____ DATE _____
 CONDITIONS OF APPROVAL John L. Price
JOHN L. PRICE OPERATOR'S COPY
DISTRICT OIL & GAS SUPERVISOR **JUL 30 1980**

APPROVED FOR A PERIOD
NOT TO EXCEED 1 YEAR.

"APPROVAL TO FLARE GRANTED
WHILE DRILLING AND TESTING."

*See Instructions On Reverse Side

U. S. GEOLOGICAL SURVEY
FEDERAL BUREAU OF

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. 1100' of 8-5/8", #, 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 402' (Fresh water)
- B. Lower Ismay 5426' (Oil)
- C. Desert Creek 5526' (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 1800' depth. The well will then be mudded up properly before drilling the * 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 about 12 cc lowered to 6 to 8 cc before drilling the Lower Ismay formation.
- 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 immediate 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

* Shinarump formation.

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 September, 1980 but contingent on rig availability.

WILLIAM W. WHITLEY
1-24 KIRKWOOD-FEDERAL
NE $\frac{1}{4}$ SW $\frac{1}{4}$ (1950' FSL & 1570' FWL) Sec. 24, T40S, R22E
San Juan County, Utah

NTL-6 MULTIPOINT REQUIREMENTS

SURFACE USE PLAN

1. Existing Roads

A portion of a U. S. Geological Survey 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 NE $\frac{1}{4}$ SW $\frac{1}{4}$ (1950' FSL & 1570' FWL) of Section 24, Township 40 South, Range 22 East, San Juan County, Utah.
- B. The location is 11.8 miles from Utah State Highway 262 which is paved. The 11.8 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 yellow. The road starts at Montezuma Creek and continues west and connects again with Utah Highway 163 about three miles southeast of Bluff, Utah. The existing road is a pipeline road for the last 0.6 miles and then north of the pipeline road about 0.2 miles.
- C. The access road from the existing oil field road is shown in red on Exhibit "A". This existing access road is 1.5 miles from the existing Bluff Bench Road and is located on a pipeline right-of-way except for the last 0.2 mile.
- 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. The existing road goes right to the location pad. As the surface is very sandy, the road should not need any maintenance except for drainage.

1. Planned Access Road

- A. A road presently exists which goes to 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. The maximum grade will be approximately three percent.
- C. No turnouts will be necessary.
- D. No drainage will be necessary other than the barrow pits created by blading the road if the well is successful.
- E. No culberts 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 are 4 plugged and abandoned wells within a one-mile radius of this location, located in the: 1) SE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 24, 2) NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 24, 3) SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24, and 4) SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23, T40S, R22E.
- 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, located in the: 1) SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24, 2) NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 25, and 3) SW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 25, T40S, R22E, San Juan County, Utah.
- G. There are no shut-in wells located within a one-mile radius of this proposed location.
- H. There are no injection wells located within a one-mile radius of this proposed well.
- 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: Three 400-Bbl. tanks are installed at the 1-24 Federal well, SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24, T40S-R22E, San Juan County, Utah, and three 300-Bbl. welded tanks located at the 1-25 Kirkwood-Federal in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 25, T40S-R22E, San Juan County, Utah.
 - 2) Production Facilities: A 4'x20' treater is located at the 1-24 Federal well, SW $\frac{1}{4}$ SE $\frac{1}{4}$ Section 24, T40S-R22E, San Juan County, Utah. Same for 1-25 Kirkwood-Federal.
 - 3) Oil Gathering Lines: None
 - 4) Gas Gathering Lines: A low pressure 4" and 3" plastic line for gathering casinghead gas goes from the two above-existing treaters to the 4" line located on the south side of the existing access road from the Bluff Bench Road.
 - 5) Injection Lines: None
 - 6) Disposal Lines: None
- B. If production is obtained, new facilities will be as follows: A pumping unit, engine, flowline to the tank battery in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 25 will be required.
- 1) The tank battery at the 1-25 Kirkwood-Federal will be utilized. It may be necessary to add one more 300-Bbl. welded tank and replace the present 4'x20' treater with a 6'x20' treater.
 - 2) Exhibit "D" shows the location and dimensions of the proposed facilities.
 - 3) The oil and gas flow line will be a steel line wrapped with a plastic protective coating buried 3 feet deep. When the pumping unit is installed, it will be installed on a gravel pad with a wide base.
 - 4) The present production pit at the 1-25 Kirkwood-Federal well will be utilized. The pumping unit will have guardrails installed around the crank weights and belt guards will be installed over the V-belts from the engine to the pumping unit.
- 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 1.25 miles southeast of proposed wellsite. There is an existing road going directly to the waterhole.

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 of 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 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 production pit or disposal pit at the 1-25 Kirkwood-Federal well will be utilized.
- E. The location of the production facilities is shown on Exhibit "D".

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.
- 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 September, 1980, if a rig is available. The rehabilitation operations should be completed before winter.

11. Other Information

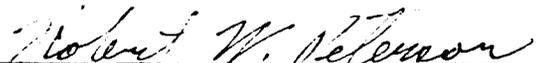
- A. The topography in the general area is rough although this location and access road are good. The soil is very sandy and should be easy to doze and should not cause any problems even in prolonged wet weather. Parts of the drilling pad will be on sandstone. It will be necessary to spread some sand over the sandstone. This sand will be dozed from the east side of the drilling pad. The surface of this location is about 65 percent bare, 2 percent broom snakeweed, 25 percent black sage brush, 5 percent Mormon Tea and 3 percent yucca. 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. At this particular location the surface is practically all fine blow sand and sand rock. 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 which are presently built.

12. Lessee's or Operator's Representatives

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 subcontractors in conformity with this plan and terms and conditions under which it is approved.

Dated: July 28, 1980


Robert W. Peterson, Petroleum Engineer

RWP:SS
Attachments



POWERS ELEVATION

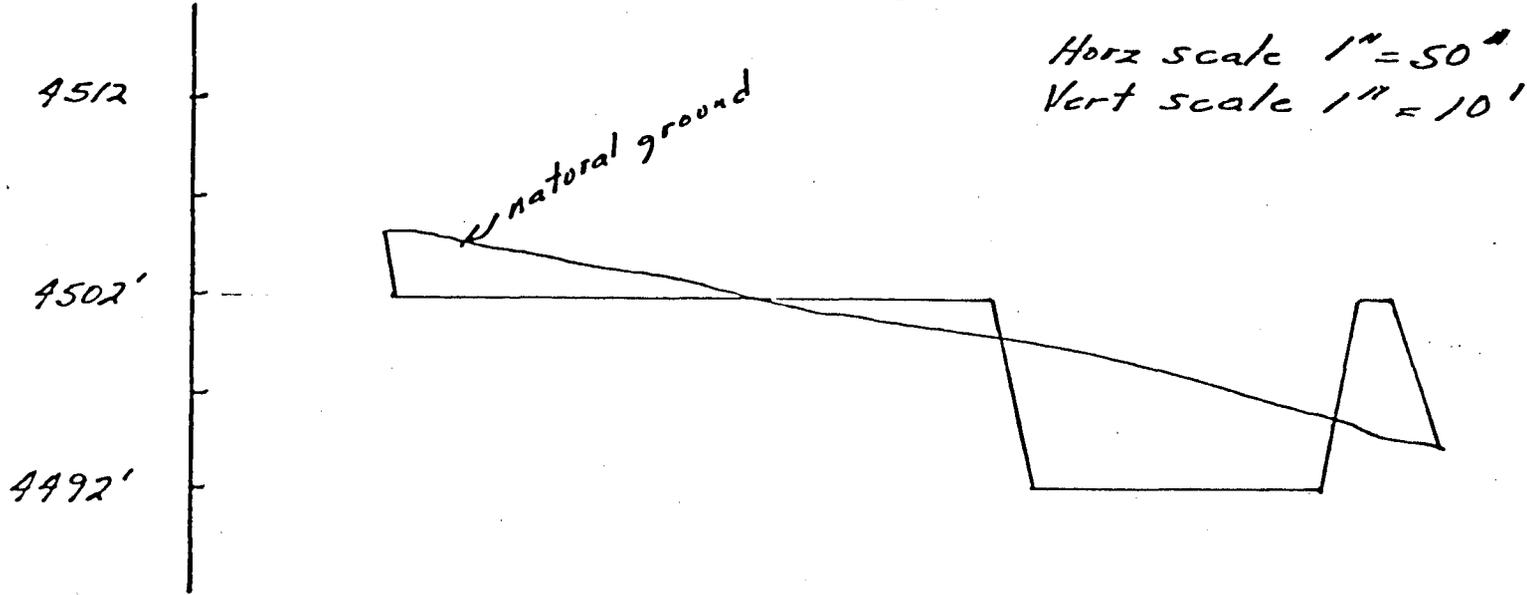
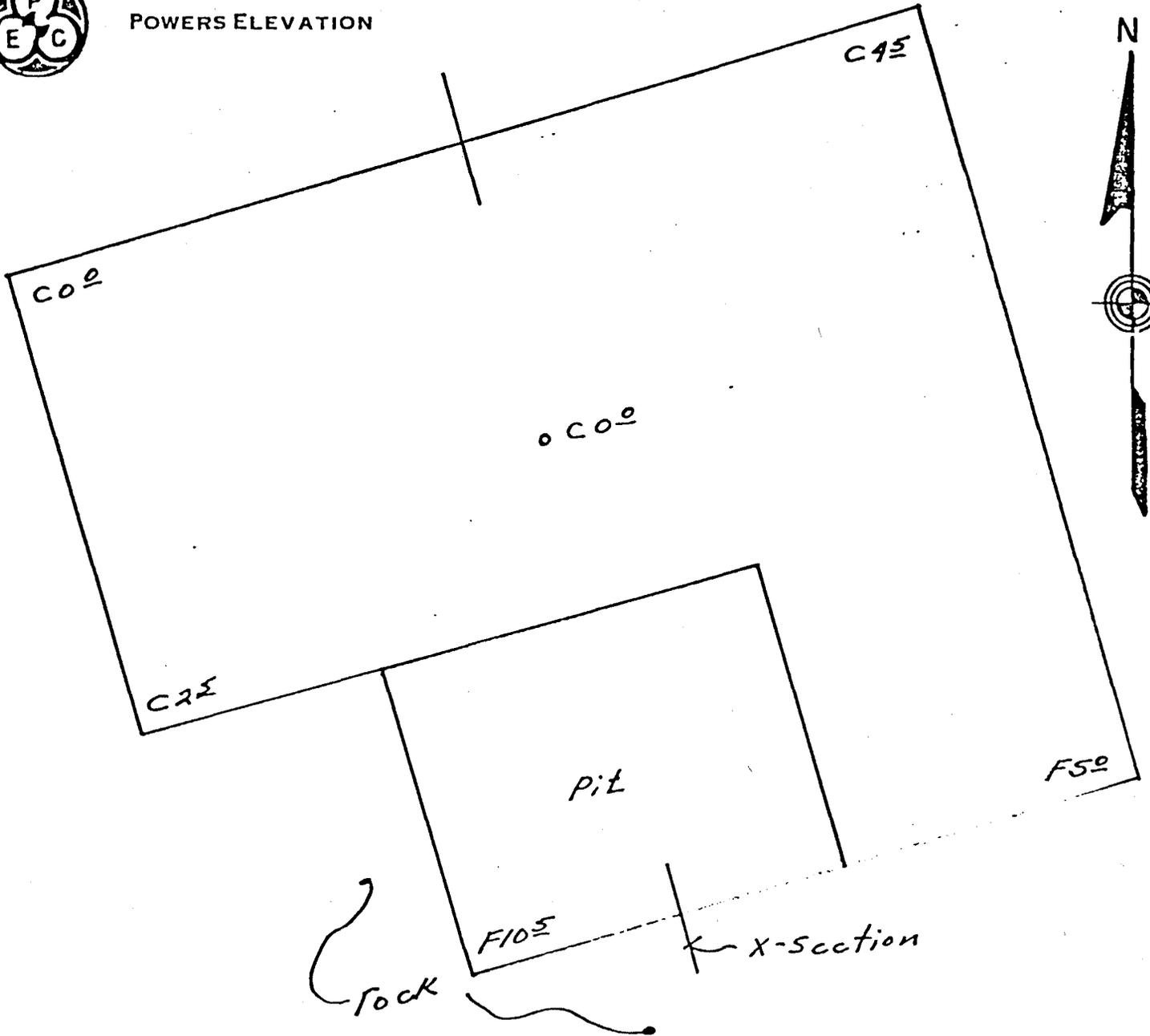


EXHIBIT "D"

RIG No. 20
CACTUS DRILLING CORP.
APPROX SCALE 1" = 50'

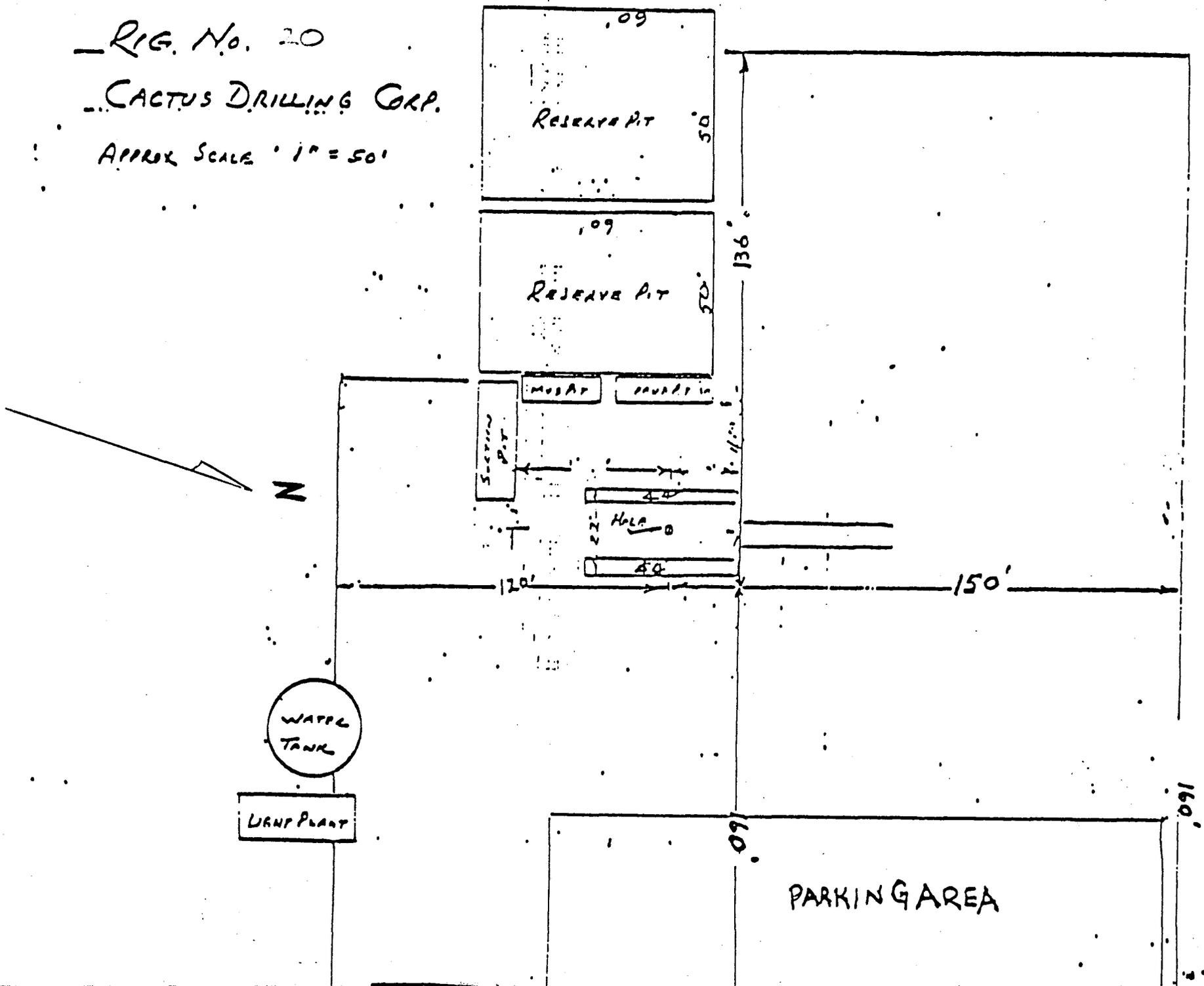
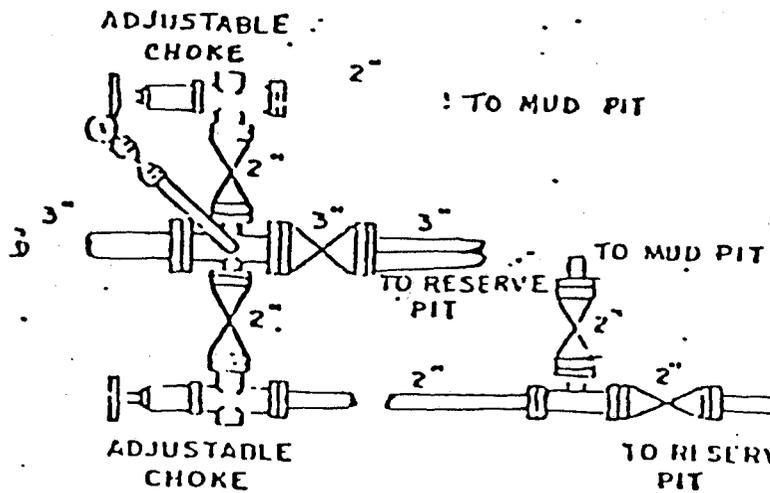
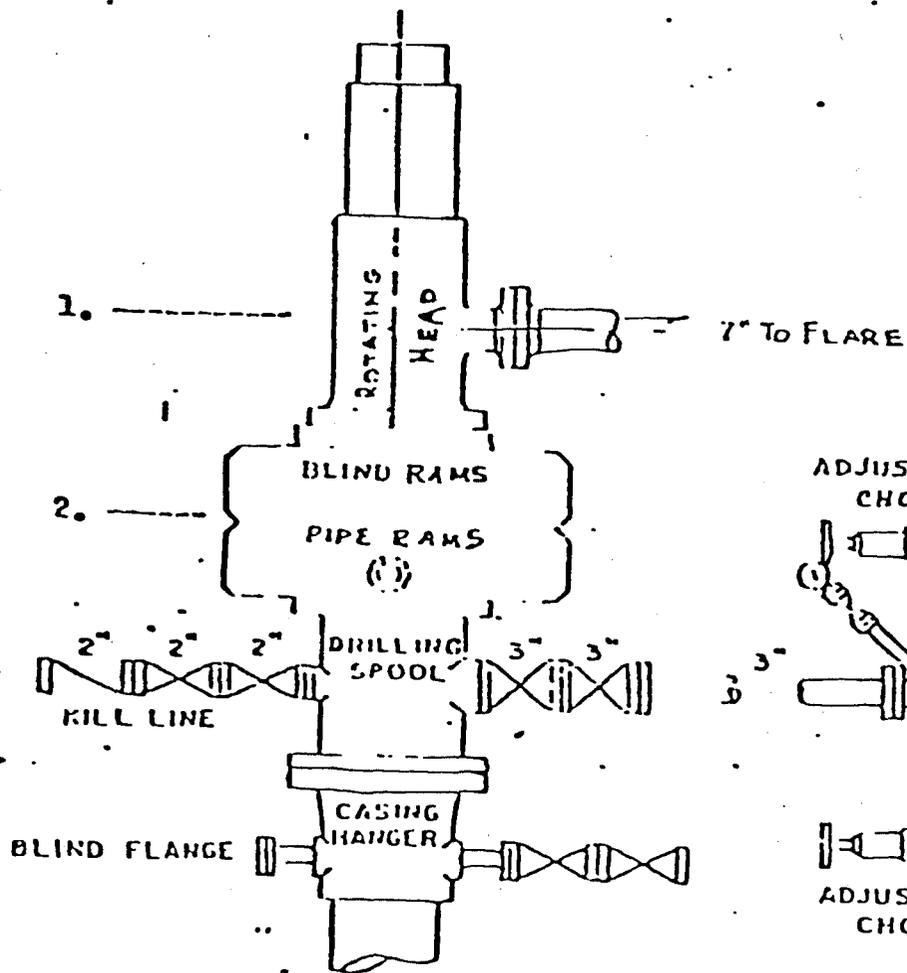


EXHIBIT "E"



1. Shaffer Type 51 Rotating Head

2. Shaffer 12" 900 Series Type 48 Double Hydraulic

** FILE NOTATIONS **

DATE: Aug 6, 1980
OPERATOR: William W. Whitley
WELL NO: ~~Kittling~~ Federde # 2
Location: Sec. 24 T. 40S R. 22E County: San Juan

L

File Prepared: Entered on N.I.D.:
Card Indexed: Completion Sheet:

API Number 43-037-30619

CHECKED BY:

Petroleum Engineer: W.W. Whitley 12-1-80
Called W. Whitley (8-7-80) will respond to name change & unorthodox location

Director: _____

Administrative Aide: _____

APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. 185-2 1/23/80 O.K. Rule C-3

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

Lease Designation Oil Plotted on Map

Approval Letter Written

Hot Line P.I.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Kirkwood-Federal

9. WELL NO.

2 (was 1-24)

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

24-T40S-R22E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

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.* See also space 17 below.)
At surface

1950' FSL & 1570' FWL, NE/4 SW/4

14. PERMIT NO.
N/A

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
4502' G.L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Change of well number

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The name of the 1-24 Kirkwood-Federal well (proposed) has been changed to #2 Kirkwood-Federal, to lessen confusion in identifying wells in the Turner Bluff Prospect, San Juan County, Utah. Please mark your records to reflect this change.

18. I hereby certify that the foregoing is true and correct

SIGNED

William W. Whitley

TITLE

Operator

DATE

8-13-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861·2469

W

October 23, 1980

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

Attn: Mr. Michael Minder

Re: #2 Kirkwood-Federal well
TURNER BLUFF PROSPECT
NE SW Section 24-T40S-R22E
San Juan County, Utah

Dear Mr. Minder:

I enclose a copy of a Sundry Notice and location plat relative to the subject well. The drillsite was moved to the new location due to the presence of an archeological site under the previously surveyed location. I realize this is an off-pattern location; however, it was not possible for the reasons mentioned above to move the location into the center of the 40 acre drillsite tract. Please advise if you have any questions about this material.

Also, we sent you a copy of the Application for Permit to Drill the above well on July 28, 1980, and a Sundry Notice changing the name of the well in August....from the #1-24 Kirkwood-Federal to the #2 Kirkwood-Federal, for easier identification. Permission was received to drill the well on October 9th from the U.S.G.S. To date we have not heard from your office.

Very truly yours,

W.W. Whitley

William W. Whitley

WWW:ss

Enclosures 2

DIVISION OF
OIL, GAS & MINING

OCT 27 1980

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Kirkwood-Federal

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

24-T40S-R22E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
WILLIAM W. WHITLEY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
CORRECTED: 1508' FWL, 2219' FSL of Sec. 24-T40S-R22E

14. PERMIT NO.

N/A

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

4494' G.L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

Change Location (& elevation)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Previously staked location: 1570' FWL, 1950' FSL
Section 24-T40S-R22E

Due to presence of an archaeological site at the staked location, the drillsite has been moved to the following location: 1508' FWL, 2219' FSL
Section 24-T40S-R22E

CORRECTED ELEVATION: 4494'

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: _____

BY: _____

18. I hereby certify that the foregoing is true and correct

SIGNED William W. Whitley

TITLE Operator

DATE 10-23-80

(This space for Federal or State office use)

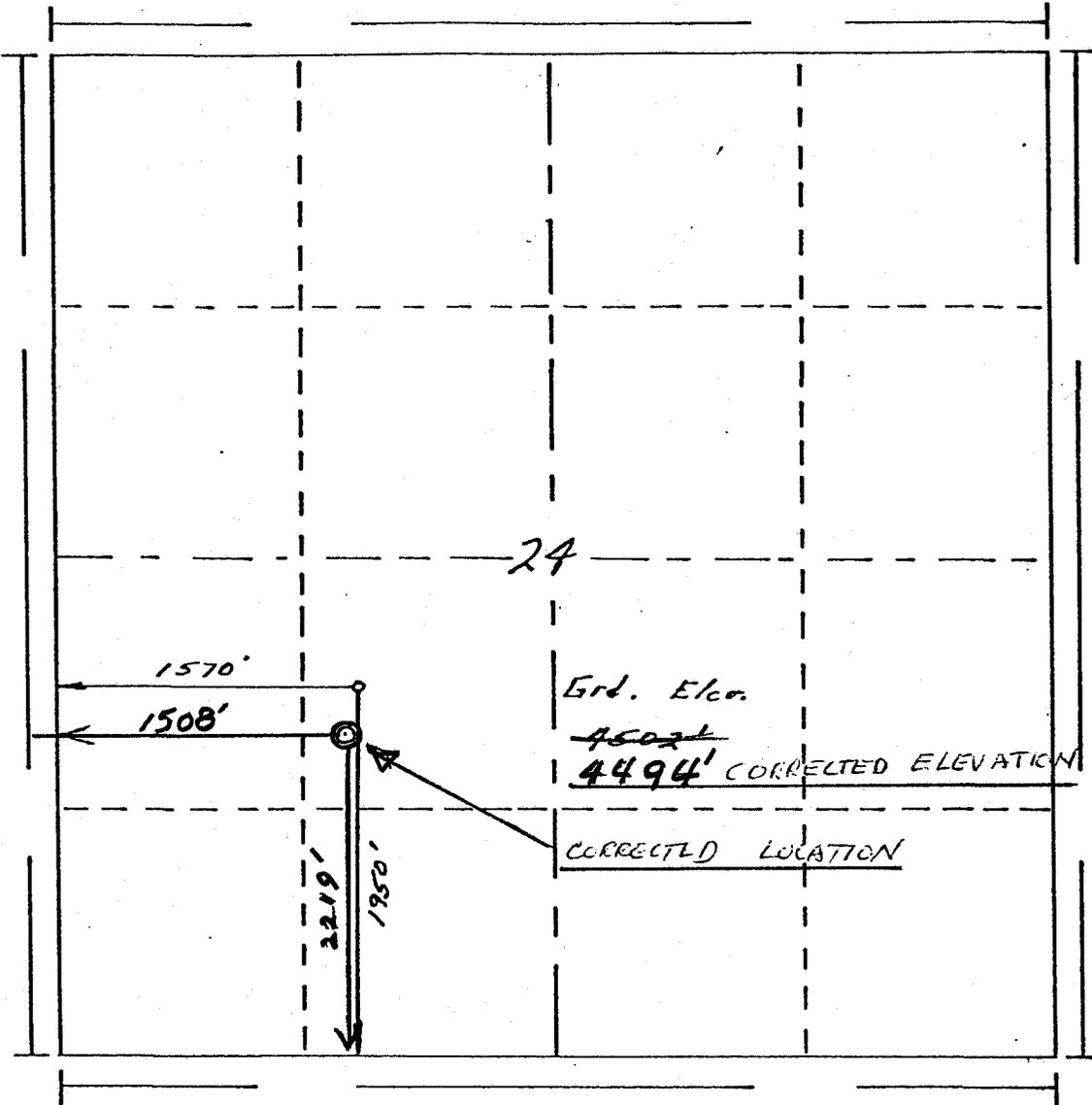
APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____



R. 22 E.



Grd. Elev.
~~4502~~
 4494' CORRECTED ELEVATION
 CORRECTED LOCATION

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado has in accordance with a request from William Whitley for William Whitley determined the location of #1-24 Kirkwood Federal to be 1950' FSL & 1570' FWL Section 24 Township 40 South Range 22 East Salt Lake Meridian San Juan County, Utah

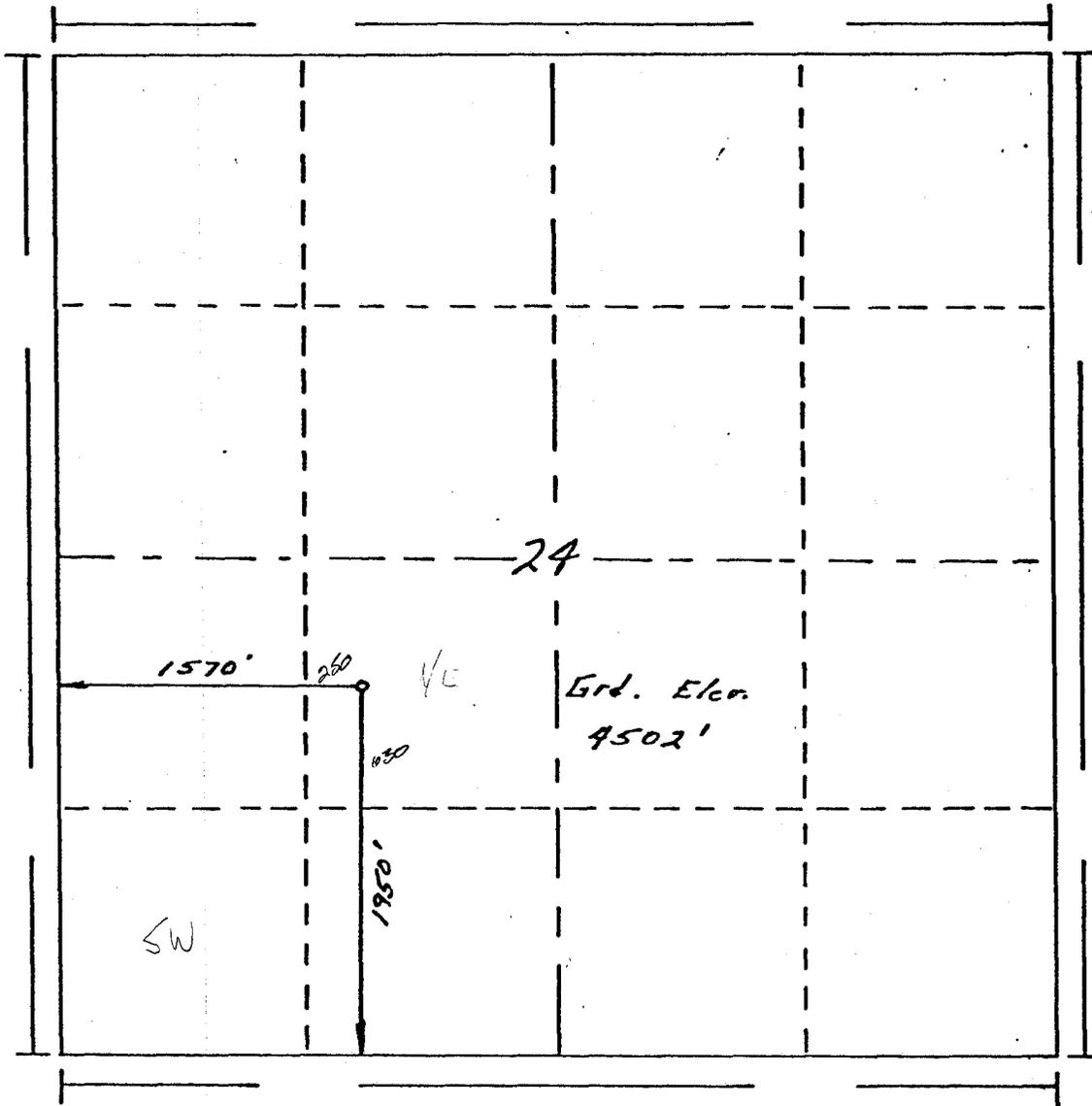
I hereby certify that this plat is an accurate representation of a correct survey showing the location of #1-24 Kirkwood Federal

Date: 6 July 1980

T. Whitley
 Licensed Land Surveyor No. 2711
 State of Utah



R. 22 E.



T. 40 S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from *William Whitley*
 for *William Whitley*
 determined the location of # ~~1-24~~² *Kirkwood Federal*
 to be 1950' FSL & 1570' FWL Section 24 Township 40 South
 Range 22 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
 # 1-24 *Kirkwood Federal*

Date: 6 July 1980

T. Whitley
 Licensed Land Surveyor No. 2711
 State of Utah

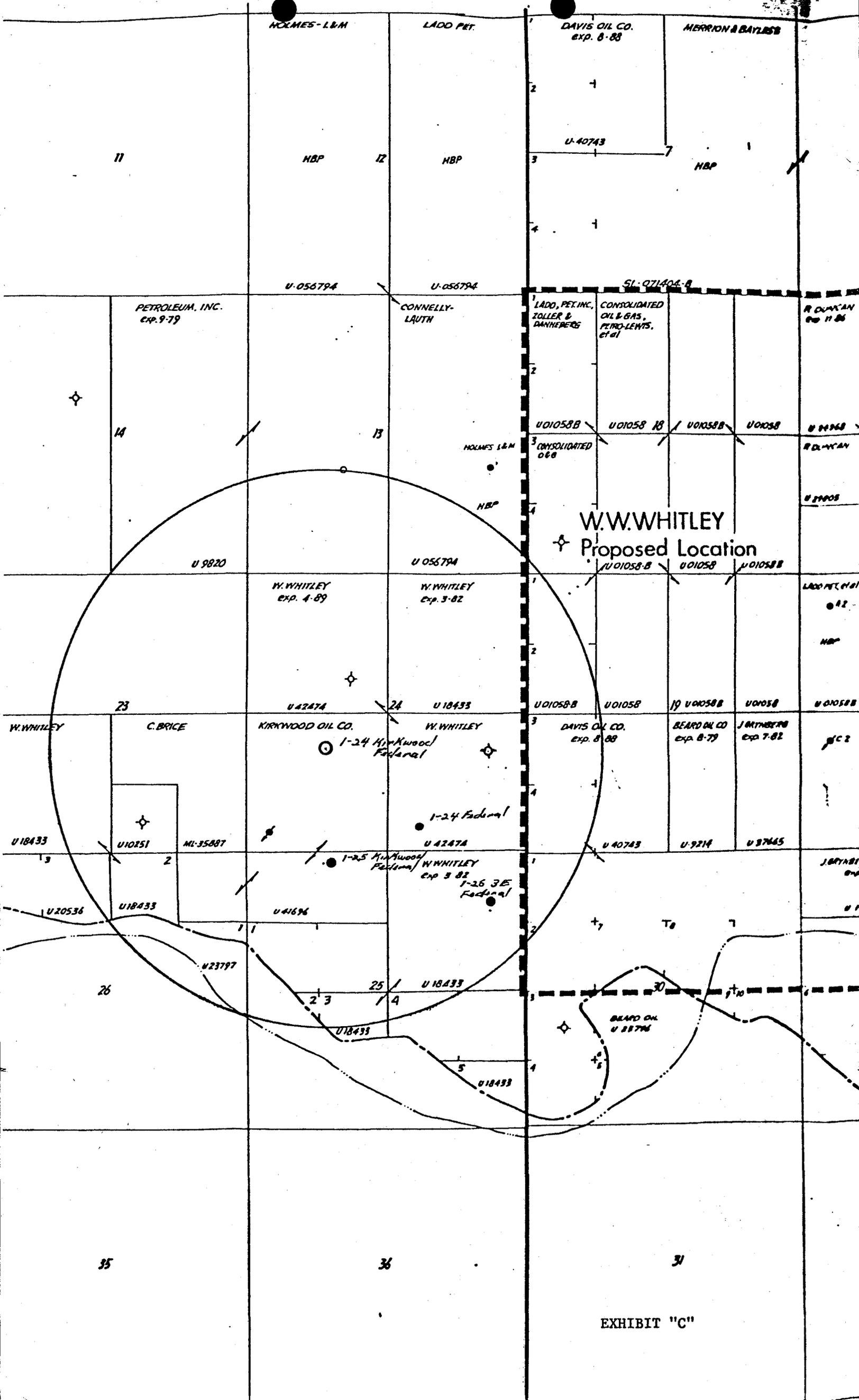
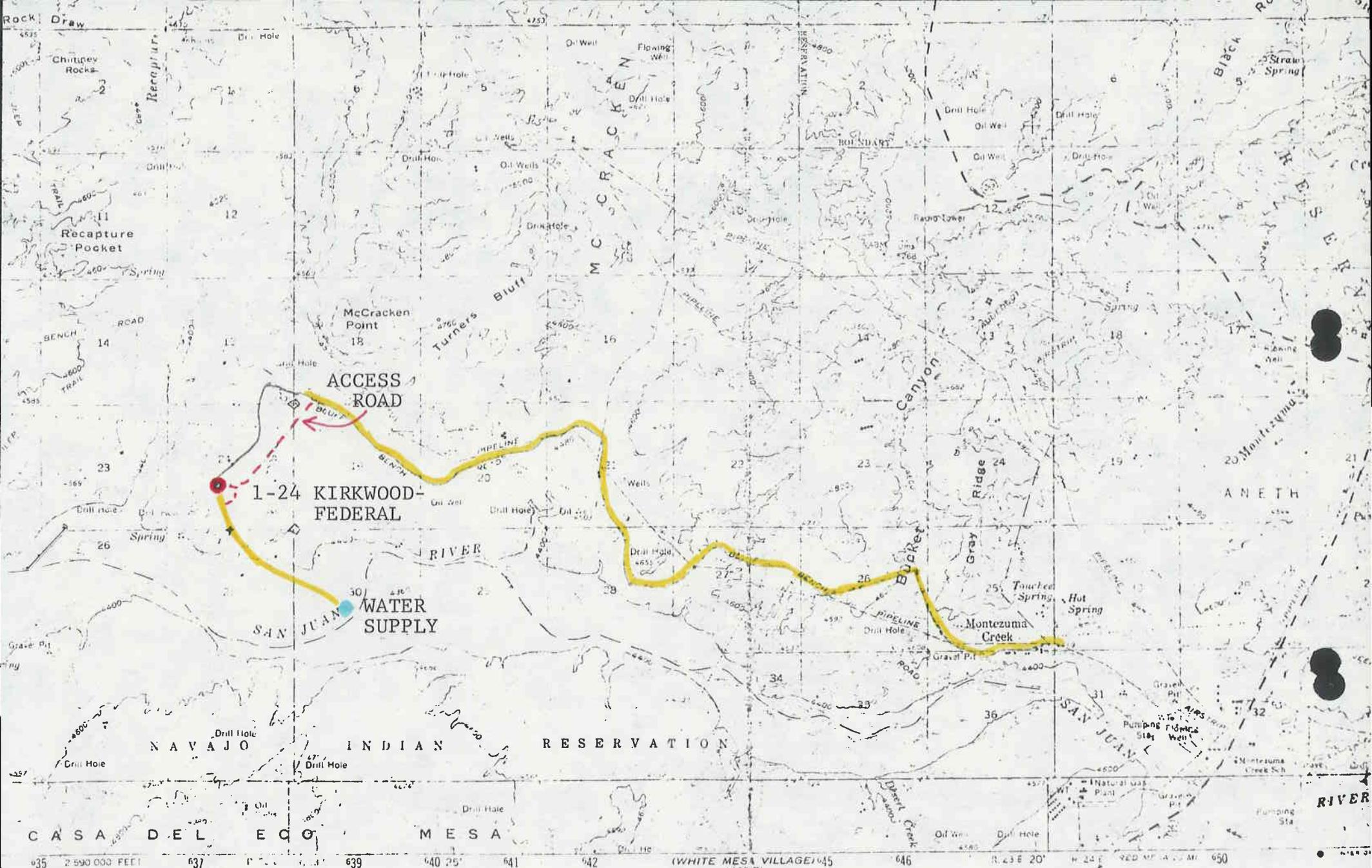
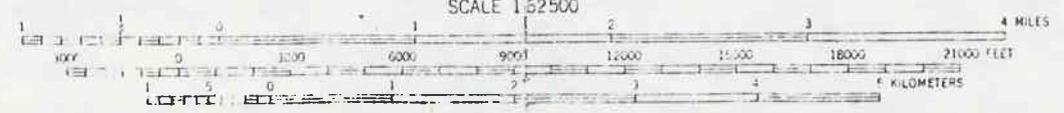


EXHIBIT "C"



Published by the Geological Survey
 3-75
 Data derived from aerial
 field checked 1962
 North American datum
 Utah coordinate system, Spheroid
 Universal Transverse Mercator grid
 not been established
 GRID ANGLE
 DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 40 FEET
 DOTTED LINES REPRESENT 20-FOOT CONTOURS
 DATUM IS MEAN SEA LEVEL

EXHIBIT "A"

M.



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

November 25, 1980

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

Attn: Mr. Michael Minder

Re: #2 Kirkwood-Federal well
TURNER BLUFF PROSPECT
NE SW Section 24-T40S-R22E
San Juan County, Utah

Dear Mr. Minder:

I enclose a copy of a Sundry Notice, Location Plat and Application for Permit to Drill approved by the U.S.G.S. The drillsite was ~~moved~~ to a new location due to the presence of an archeological site under the previously surveyed location. The present location falls outside of the center of the 40 acre tract. This is to advise you that my partners and I own oil and gas leases covering area in excess of a 660' radius around the new drillsite.

Please advise if you need any more information. It is our intention to commence drilling the well on December 9, 1980.

Very truly yours,

William W. Whitley

WWW:ss
Enclosures

RECEIVED

NOV 26 1980

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Kirkwood-Federal

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

24-T40S-R22E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
WILLIAM W. WHITLEY

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

CORRECTED: 1508' FWL, 2219' FSL of Sec. 24-T40S-R22E *NE SW*

14. PERMIT NO.

N/A

15. ELEVATIONS (Show whether DF, RT, CR, etc.)

4494' G.L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Change Location (& elevation)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROMISED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Previously staked location: 1570' FWL, 1950' FSL
Section 24-T40S-R22E

Due to presence of an archaeological site at the staked location, the drillsite has been moved to the following location: 1508' FWL, 2219' FSL
Section 24-T40S-R22E

CORRECTED ELEVATION: 4494'

APPROVED

OCT 28 1980

JOHN L. PRICE
DISTRICT OIL & GAS SUPERVISOR

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 12-1-80

BY: *M. J. Minder*

RECEIVED

OCT 27 1980

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

18. I hereby certify that the foregoing is true and correct

SIGNED

William W. Whitley

TITLE

Operator

DATE

10-23-80

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

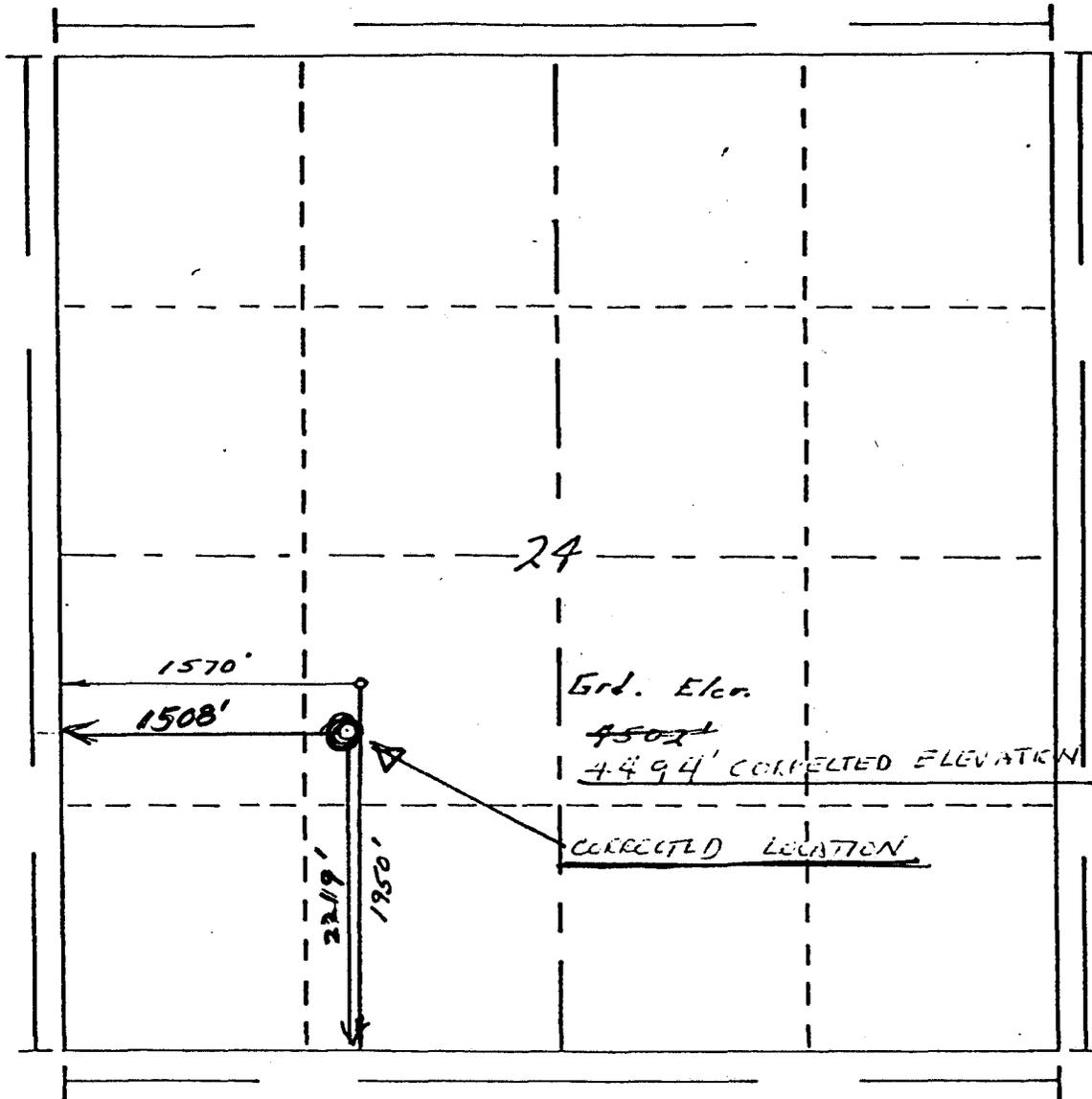
CONDITIONS OF APPROVAL, IF ANY:

OPERATOR'S COPY

*See Instructions on Reverse Side



R. 22 E.



T. 40S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from William Whitley
 for William Whitley
 determined the location of #1-24 Kirkwood Federal
 to be 1950' FSL & 1570' FWL Section 24 Township 40 South
 Range 22 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
 #1-24 Kirkwood Federal

Date: 6 July 1980

T. Whitley
 Licensed Land Surveyor No. 2711
 State of Utah

December 8, 1980

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

Re: Well No. Kirkwood-Federal #2
Sec. 24, T. 40S, R. 22E
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. 185-2 dated January 23, 1980.

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 - Petroleum 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 43-037-30619.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Michael T. Minder
Petroleum Engineer

/ka
cc: USGS

william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

RECEIVED

JAN 5 1981 December 31, 1980

DIVISION OF
OIL, GAS & MINING

U.S.G.S.
P. O. Box 1809
Durango, CO 81301

Re: #2 Kirkwood-Federal well
TURNER BLUFF PROSPECT
NE SW Section 24-T40S-R22E
San Juan County, Utah

Gentlemen:

Enclosed is the Sundry Notice on the above well containing spudding and casing information, together with drilling contractor and rig number.

Very truly yours,

Sally Scheiman

Sally Scheiman

ss
enclosures 3

→ cc: State of Utah, Division of Oil, Gas and Mining

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR <u>William W. Whitley</u></p> <p>3. ADDRESS OF OPERATOR <u>1600 Broadway, Suite 1705, Denver, CO 80202</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>1570' FWL, 1950' FSL</u></p> <p>14. PERMIT NO. <u>43-037-30619</u></p>	<p>5. LEASE DESIGNATION AND SERIAL NO. <u>U-41696</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME <u>Kirkwood-Federal</u></p> <p>9. WELL NO. <u>#2</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Turner Bluff</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 24-T40S-R22E</u></p> <p>12. COUNTY OR PARISH <u>San Juan</u></p> <p>13. STATE <u>Utah</u></p>
<p>15. ELEVATIONS (Show whether DF, RT, CR, etc.) <u>4494' GR</u></p>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Spudding</u> <input checked="" type="checkbox"/>	

*NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spudded well 12-28-80 @ 7:00 p.m. - Cactus Drilling Co., Rig #18

Ran 37' 13-3/8", 54.5 lb., K-55, R-3 casing to 40' K.B. Cemented with 55 sx Regular w/ 3% CaCl₂. Cement circulated (est. 2 bbls.). Plug down @ 10:15 P.M. 12-29-80.

12-30-80 Depth 40'.

12-31-80 Depth 691'.

18. I hereby certify that the foregoing is true and correct

SIGNED W.W. Whitley TITLE Operator DATE 12-31-80

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Kirkwood-Federal

9. WELL NO.

#2

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 24-T40S-R22E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

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.* See also space 17 below.)
At surface
1570' FWL, 1950' FSL, NE/4 SW/4

14. PERMIT NO.
43-037-30619

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
4494' GR.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Casing detail

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(NOTE: Report results of multiple completion or Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

1-5-81

Depth 1320'.

Ran 30 jts, 1312', 8-5/8", 24 lb., K-55, 8 rd th, R-3, New, surface casing. Cemented @ 1310' K.B. w/750 sx Halliburton Lite w/10 lbs. Gilsonite & 1/2 lb. Floseal per sk w/3% CaCl₂. Followed w/50 sx thixotropic cement w/2% CaCl₂. Circ. 5 bbls. cement to surface. Bumped plug w/1200 psi (500 psi above circ. pressure) and let set 5 min. Held OK. Released pressure and float held. Plug down 5:30 P.M. 1-4-81.

1-6-81

Depth 1666' drilling.

RECEIVED

JAN 8 1981

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

W.W. Whitley

TITLE Operator

DATE 1/6/81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

January 14, 1981

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

Attn: Mr. Michael Minder

Re: Kirkwood-Federal #2
TURNER BLUFF AREA
NE SW Section 24-T40S-R22E
San Juan County, Utah
API 43-037-30619

Dear Mr. Minder:

Attached in triplicate is the "Report of Water Encountered During Drilling" on the above well, as requested in your letter of approval to drill dated December 8, 1980.

Very truly yours,

William W. Whitley

/ss

attachments 3

RECEIVED

JAN 16 1981

DIVISION OF
OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Kirkwood-Federal #2
 Operator William W. Whitley Address 1600 Broadway, #1705, Denver, CO 80202
 Contractor Cactus Drilling Co. Address P.O.Box 1239, Richardson, TX 75080
 Location NE ¼ SW ¼ Sec. 24 T: 40S R. 22E County San Juan

Water Sands

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	From	To	Flow Rate or Head	Fresh or Salty
1.	76'		1"-1½" stream	Fresh
2.	400'	440'	6" stream	Fresh
3.	2400'	2500'		Salt Water
4.				
5.				

(Continue of reverse side if necessary)

Formation Tops Navajo 402' (est.)
Cutler 2385'-4396' (est.)

Remarks

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
 (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

RECEIVED
 JAN 16 1981
 DIVISION OF
 OIL, GAS & MINING

P+A

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Wm. W. Whittey Bill Whittey

WELL NAME: Kirkwood Fed. #2

SECTION NE SW 24 TOWNSHIP 40S RANGE 22E COUNTY San Juan

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 5638'

CASING PROGRAM:

- 13 3/8" @ 40' circ. to surface
- 8 5/8" @ 1312'
- 7 7/8" openhole in gage

FORMATION TOPS:

- Cutler- behind casing
- De Chelly- 2500' salt water
- Hermosa- 4400'
- L. Ismay- 5415'
- Paradox sh. 5465'
- Desert Creek- 5510'

PLUGS SET AS FOLLOWS:

- 1) 5560-5360' 70 sx.
- 2) 4450-4350' 35 sx.
- 3) 2550-2450+ 35 sx.
- 4) 1460-1360' 35 sx.
- 5) 50'-surface 25 sx.

Place 9.2# fresh water gel based abandonment mud between plugs; clean, restore and regrade site, erect regulation dryhole marker.

DATE 1-26-81 SIGNED MTM

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

6. LEASE DESIGNATION AND SERIAL NO.

U-12965

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal

9. WELL NO.
21-1

10. FIELD AND POOL, OR WILDCAT
Cisco

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SW $\frac{1}{4}$ SE $\frac{1}{4}$, SEC. 21, T21S, R24E, SLB & M

12. COUNTY OR PARISH 13. STATE
Grand Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Jan Christiansen

3. ADDRESS OF OPERATOR
P.O. Box 63, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
738.4' FSL, 2392.3 FEL, Sec. 21, T21S, R24E, Grand County, Utah

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
4216' G.L.

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>	

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Due to rig availability, we propose to move in a smaller rig and set surface casing as proposed. The larger rotary will move in and finish the hole in approximately thirty days. No additional surface disturbance will be required and the conditions set forth by the NPL-6 Program will be followed.

APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING

DATE: 2-3-81
BY: M. J. Munder

OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature]

TITLE Consulting Engineer

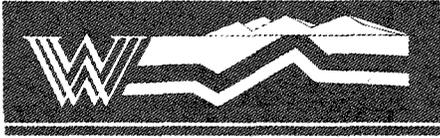
DATE 1/30/81

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____



william w. whitley
1705 colorado state bank building
1600 broadway
denver · colorado · 80202
phone (303) 861-2469

January 29, 1981

~~U. S. G. S.
P. O. Box 1809
Durango, Colorado 81301~~

Re: Kirkwood-Federal #2 well
TURNER BLUFF
Section 24-T40-R22E
San Juan County, Utah

Gentlemen:

Attached are three copies of the Sundry Notice containing the plugging procedures for the above well.

Very truly yours,

Sally Scheiman
Sally Scheiman

/ss

Enclosures

~~cc:~~ State of Utah

RECEIVED

FEB 2 1981

DIVISION OF
OIL, GAS & MINING

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS <small>(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)</small>		5. LEASE DESIGNATION AND SERIAL NO. <p align="center">U-41696</p>
1. <input type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER Dry Hole		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR William W. Whitley		7. UNIT AGREEMENT NAME
3. ADDRESS OF OPERATOR 1600 Broadway, Suite 1705, Denver, Colorado 80202		8. FARM OR LEASE NAME Kirkwood-Federal
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NE/4 SW/4 1508' FWL, 2219' FSL		9. WELL NO. #2
14. PERMIT NO. 43-037-30619		10. FIELD AND POOL, OR WILDCAT Turner Bluff
15. ELEVATIONS (Show whether DF, KT, CR, etc.) 4494 GR, 4508' KB		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 24-T40S-R22E
12. COUNTY OR PARISH San Juan		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON* <input checked="" type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREATMENT <input type="checkbox"/> SHOOTING OR ACIDIZING <input type="checkbox"/> (Other) <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/> ALTERING CASING <input type="checkbox"/> ABANDONMENT* <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Plugging Procedure: As per verbal instructions 1/27/81 from Carl Barrick, U.S.G.S.

- Plug #1: 5560-5360' 70 sx cement
- Plug #2: 4450-4350' 35 sx cement
- Plug #3: 2500-2400' 35 sx cement
- Plug #4: 1460-1360' 35 sx cement
- Plug #5: 50'-surface 25 sx cement

RECEIVED

FEB 2 1981

DIVISION OF
OIL, GAS & MINING

**APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING**

DATE: 2-3-81

BY: M. J. Winder

18. I hereby certify that the foregoing is true and correct

SIGNED <u>William W. Whitley</u>	TITLE <u>Operator</u>	DATE <u>1/28/81</u>
----------------------------------	-----------------------	---------------------

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

William W. Whitley
1705 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Phone (303) 861-2469

February 6, 1981

U. S. G. S.
P. O. Box 1809
Durango, Colorado 81301

Attn: Mr. Carl Barrick

Re: #2 Kirkwood-Federal well
TURNER BLUFF
NE SW Section 24-T40S-R22E
San Juan County, Utah

Dear Mr. Barrick:

Enclosed in triplicate is the Well Completion Report on
the #2 Kirkwood-Federal well.

Very truly yours,

William W. Whitley

William W. Whitley

/ss

Enclosures

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

RECEIVED
FEB 10 1981
DIVISION OF
OIL, GAS & MINING

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE*

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION:
NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other P & A

2. NAME OF OPERATOR
William W. Whitley

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1508' FWL, 2219' FSL, NE/4 SW/4
At top prod. interval reported below same
At total depth same

14. PERMIT NO. 43-037-30619 DATE ISSUED 12-8-80

5. LEASE DESIGNATION AND SERIAL NO.
U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Kirkwood-Federal

9. WELL NO.
#2

10. FIELD AND POOL, OR WILDCAT
Turner Bluff

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
24-40S-22E

12. COUNTY OR PARISH San Juan 13. STATE Utah

15. DATE SPUDDED 12-28-80 16. DATE T.D. REACHED 1-26-81 17. DATE COMPL. (Ready to prod.) 1-28-81 P & A 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4494' GR, 4508' KB 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 5638' DTD 21. PLUG, BACK T.D., MD & TVD --- 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY Rotary ROTARY TOOLS Rotary CABLE TOOLS ---

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
NONE 25. WAS DIRECTIONAL SURVEY MADE
No

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL-FSL and GR-CNL-FDC 27. WAS WELL CORED
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	54.5	40' KB	17 1/2"	55 sx reg. w/3% CaCl ₂	None
8-5/8"	24	1310' KB	12 1/4"	750 sx Halliburton Life w/10# Gilsonite & 1/2# Folsal/sk w/3% thixotropic cement w/2% CaCl ₂	None CaCl ₂ , 50 sx + 100' sx Reg.

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORDED (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) P & A

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS. _____ CASING PRESSURE _____ CALCULATED 24-HOUR RATE _____ OIL—BBL. _____ GAS—MCF. _____ WATER—BBL. _____ OIL GRAVITY-API (CORR.) _____

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) _____ TEST WITNESSED BY _____

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED William W. Whitley TITLE Operator DATE 2-6-81

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FEB 2 1974
DIVISION OF MINING
CITIZEN SERVICE CENTER

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
DST #1 Lower Ismay	5400'	5476'	IF 30 min., ISI 60 min., FF 60 min., FSI 120 min. Recovered 874' total fluid, 270' SG&OCM, 604' SOC muddy SW. CL 120,000 IHP 2834 FHP 2833 IFP 93-280 FFP 280-387 ISIP 1961, building FSIP 1934, building	Lower Ismay Ls	5430'
DST #2 Desert Creek	5569'	5588'	IF 30 min., ISI 60 min., FF 60 min., FSI 120 min. Recovered 1566' total fluid, 90' SOCM + 1476' SMSW. Sample chamber: 170 psi, Rec. 2150 ccs. salt water, Rw 0.048 @ 57° F. IHP 2931 FHP 2917 IFP 27-292 FFP 318-504 ISIP 1520, building FSIP 1533, building	Desert Creek Ls	5510'

William W. Whitley
1705 Colorado State Bank Building
1600 Broadway
Denver, Colorado 80202
Phone (303) 861-2469

February 23, 1981

U. S. G. S.
P. O. Box 1809
Durango, Colorado 81301

Attn: Mr. Carl Barrick

Re: #2 Kirkwood-Federal well
Turner Bluff
NE SW Section 24-T40S-R22E
San Juan County, Utah

Dear Mr. Barrick:

Enclosed is the Subsequent Report of Abandonment in triplicate on
the above well.

Very truly yours,

William W. Whitley
William W. Whitley

/ss
Enclosures 3

cc: State of Utah

RECEIVED
FEB 23 1981

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-41696

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL GAS WELL OTHER Dry Hole

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

William W. Whitley

8. FARM OR LEASE NAME

Kirkwood-Federal

3. ADDRESS OF OPERATOR

1600 Broadway, Suite 1705, Denver, Colorado 80202

9. WELL NO.

#2

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

NE/4 SW/4
1508' FWL, 2219' FSL

10. FIELD AND POOL, OR WILDCAT

Turner Bluff

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

24-40S-22E

14. PERMIT NO.

43-037-30619

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

4494' GR, 4508' KB

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well plugged as follows:

Plug #1: 5560-5360'	70 sx cement
Plug #2: 4450-4350'	35 sx cement
Plug #3: 2500-2400'	35 sx cement
Plug #4: 1360-1260'	35 sx cement
Plug #5: 50' to surface	25 sx cement

Rig released 3:00 p.m. 1/28/81.

Dry hole marker installed and location cleaned up.

RECEIVED
FEB 23 1981
DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

W.W. Whitley

TITLE

Operator

DATE

2-23-81

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY: