

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  
Walter D. Broadhead

3. ADDRESS OF OPERATOR  
1645 N. 7th. St Grand Jct., Colo...81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface 1300 ft. from the north boundary and east 525'  
At proposed prod. zone from the west boundary of Sec. 5. T21S 500'  
R24E..

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
4 miles northeast of Cisco, Utah.

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
500'

16. NO. OF ACRES IN LEASE  
800.32

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH  
1300 ft..

20. ROTARY OR CABLE TOOLS  
rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4425

22. APPROX. DATE WORK WILL START\*  
March 15, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 5/8"	7"	17Lb.	100'	cir. cement to surface
6 1/4"	4 1/2"	9 1/2 lb.	TD	100 SX Cement

EXHIBITS ATTACHED:

- A location and elevation plat
- B Ten-point compliance program
- C Blowout preventor diagram
- D Multi-point requirements for APD
- E Route and distance road map
- F Access road and radius map of wells in area
- G Drill pad layout
- H Drill rig layout
- I Production facility layout

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 Walter D Broadhead TITLE Operator DATE Apr 24, 1982

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY W T Martin FOR E. W. GUYNN  
TITLE DISTRICT OIL & GAS SUPERVISOR DATE JUL 13 1982  
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

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

State O & G

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DEPARTMENT OF THE INTERIOR  
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 At proposed prod. zone from the west boundary of Sec. 5 T21S R24E.. *Alw Nw 3*

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 4 miles northeast of Cisco, Utah.

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16. NO. OF ACRES IN LEASE 800.32

17. NO. OF ACRES ASSIGNED TO THIS WELL

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

19. PROPOSED DEPTH 1300 ft..

20. ROTARY OR CABLE TOOLS rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4425 *SALT WASH*

22. APPROX. DATE WORK WILL START\*  
 March 15, 1982

5. LEASE DESIGNATION AND SERIAL NO.  
 U-43383

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Federal

9. WELL NO.  
 Federal Altrogg #1

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 S. 5 T21S. R24E S1BorM

12. COUNTY OR PARISH  
 Grand

13. STATE  
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

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- G Drill pad layout
- H Drill rig layout
- I Production facility layout

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

DATE:                       
BY:                     

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.

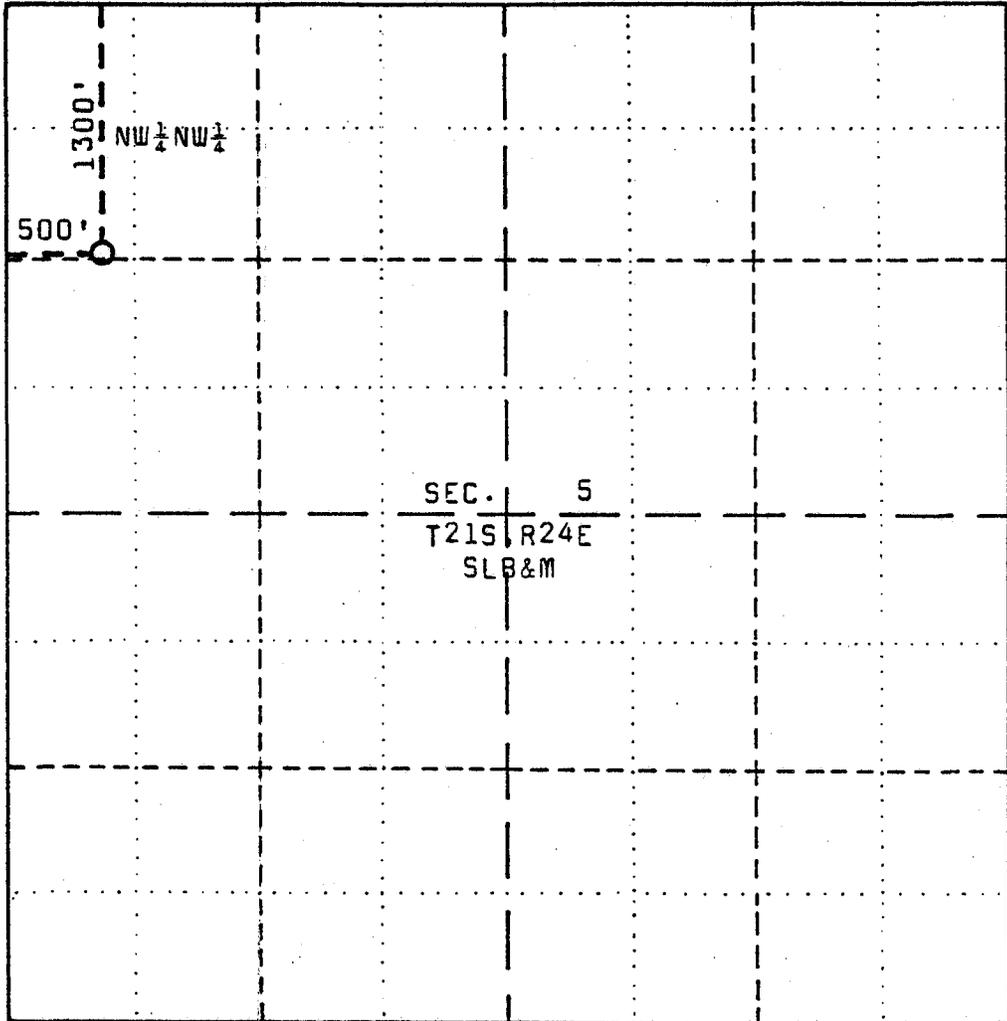
24. SIGNED \_\_\_\_\_ TITLE Operator DATE \_\_\_\_\_

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



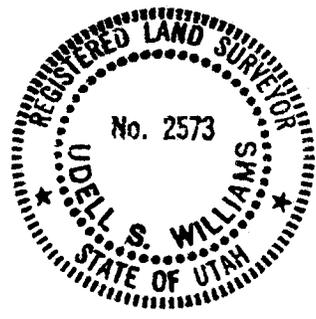
SCALE: 1" = 1000'

FED. ALTROGG #1

Located South 1300 feet from the North boundary and East 500 feet from the West boundary of Section 5, T21S, R24E, SLB&M.

Elev. 4425

Grand County, Utah



SURVEYOR'S CERTIFICATE

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

*Udell S. Williams*  
UTAH R.L.S. NO. 2573



**UDELL S. WILLIAMS**  
751 Rood Avenue  
GRAND JUNCTION, COLORADO 81501

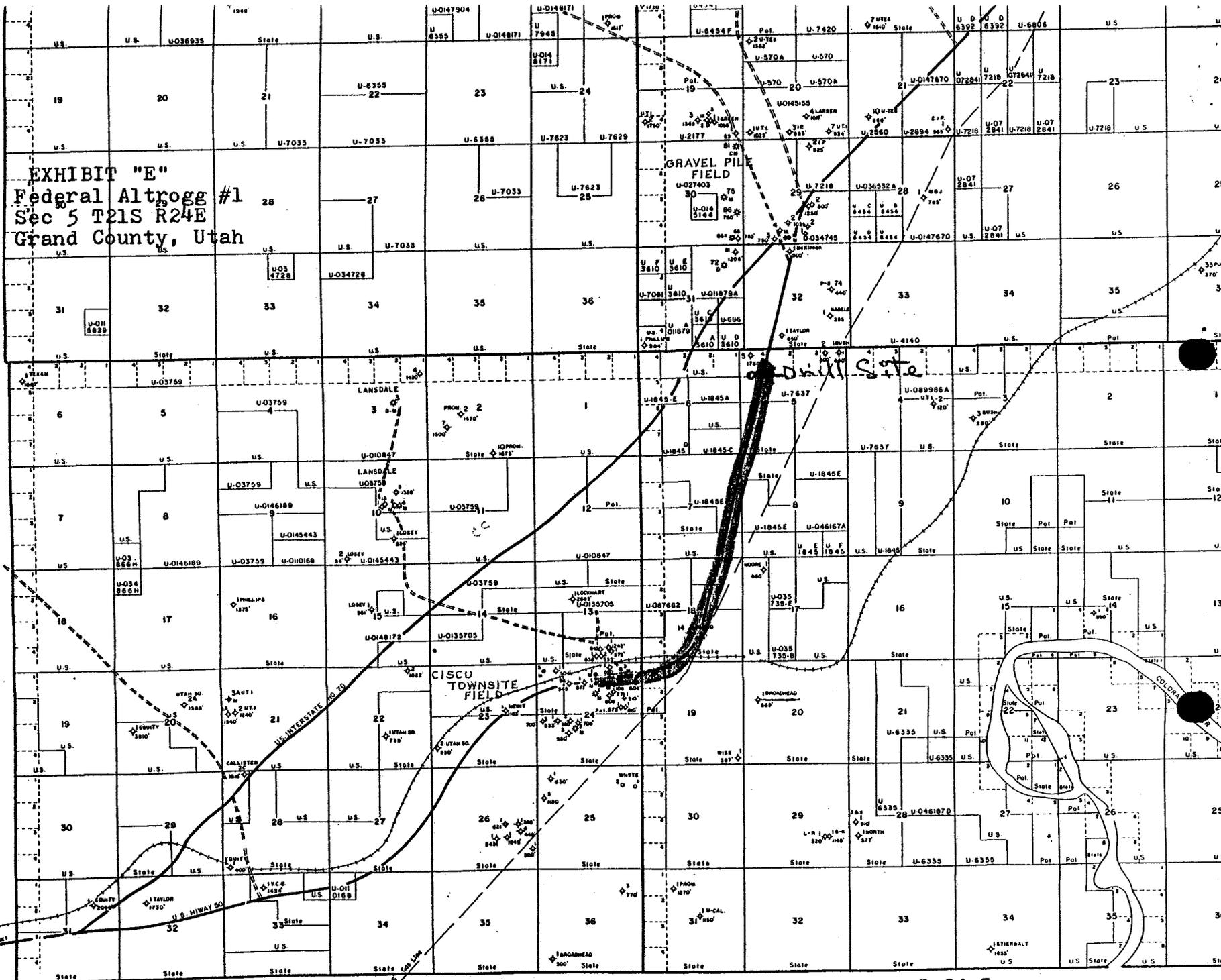
PLAT OF  
PROPOSED LOCATION  
FED. ALTROGG #1  
NW 1/4 NW 1/4 SECTION 5  
T21S, R24E, SLB&M

SURVEYED BY: USW DATE: 3/24/82  
DRAWN BY: USW DATE: 3/25/82

T 20 S

EXHIBIT "E"  
Federal Altrogg #1  
Sec 5 T21S R24E  
Grand County, Utah

T 21 S



R 23 E

existing road  
new road

R 24 E

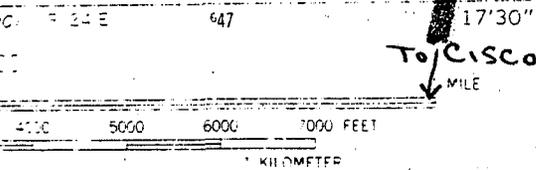
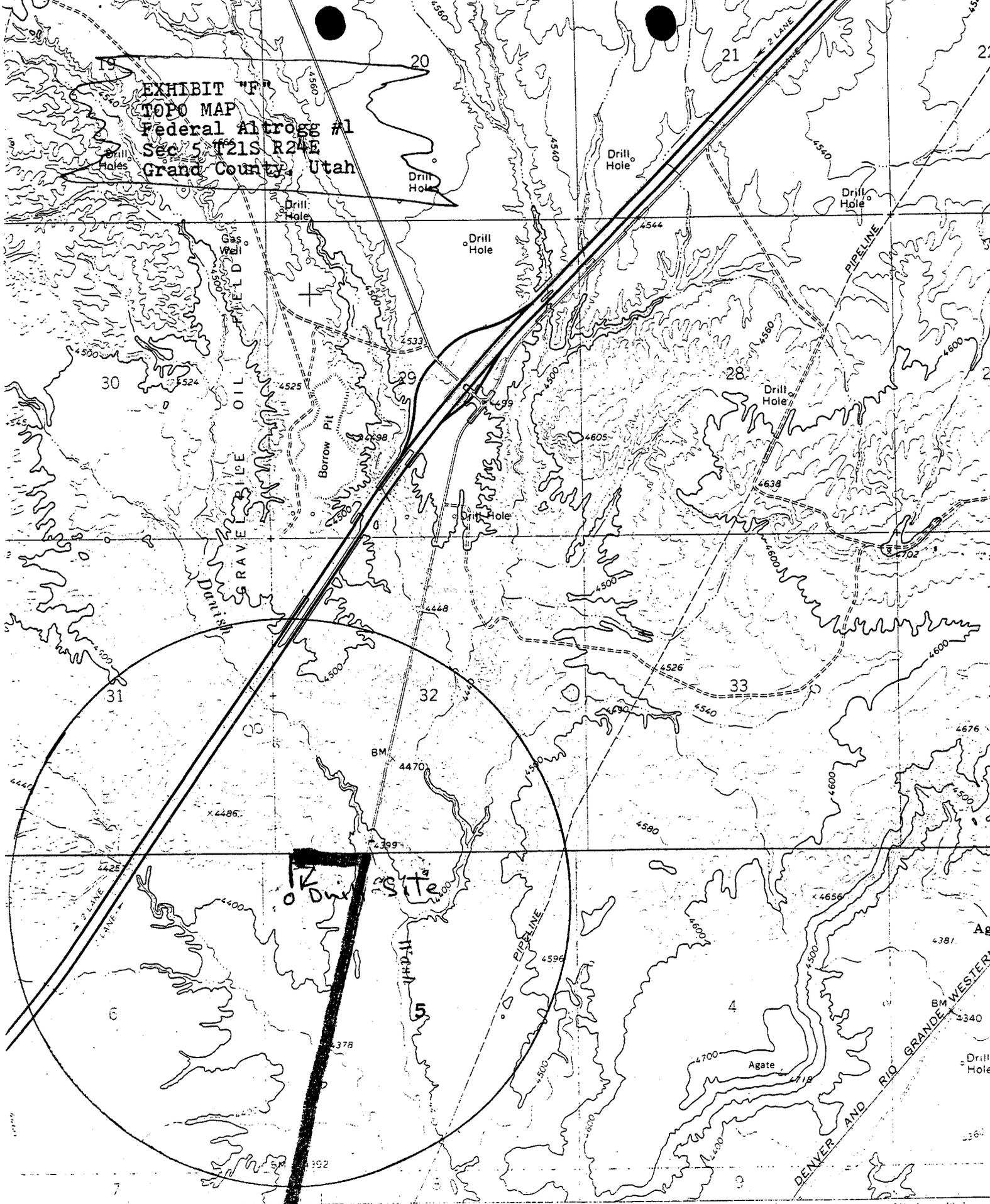
72 S. 60 W. to Corner of S1

Public Highway 15  
Go. Line

COLORADO

ESTERDALE 1855' U.S.

EXHIBIT "F"  
 TOPO MAP  
 Federal Ahtrogg #1  
 Sec 5, T21S R24E  
 Grand County, Utah



new Road -  
 existing Road

ROAD CLASSIFICATION	
	Primary highway hard surface
	Light-duty road, hard or improved surface
	Secondary highway

Exhibit 'G'  
Drill Pad Layout  
Federal Lansdale No.  
Grand County, Utah

TOPSOIL

STOCKPILE

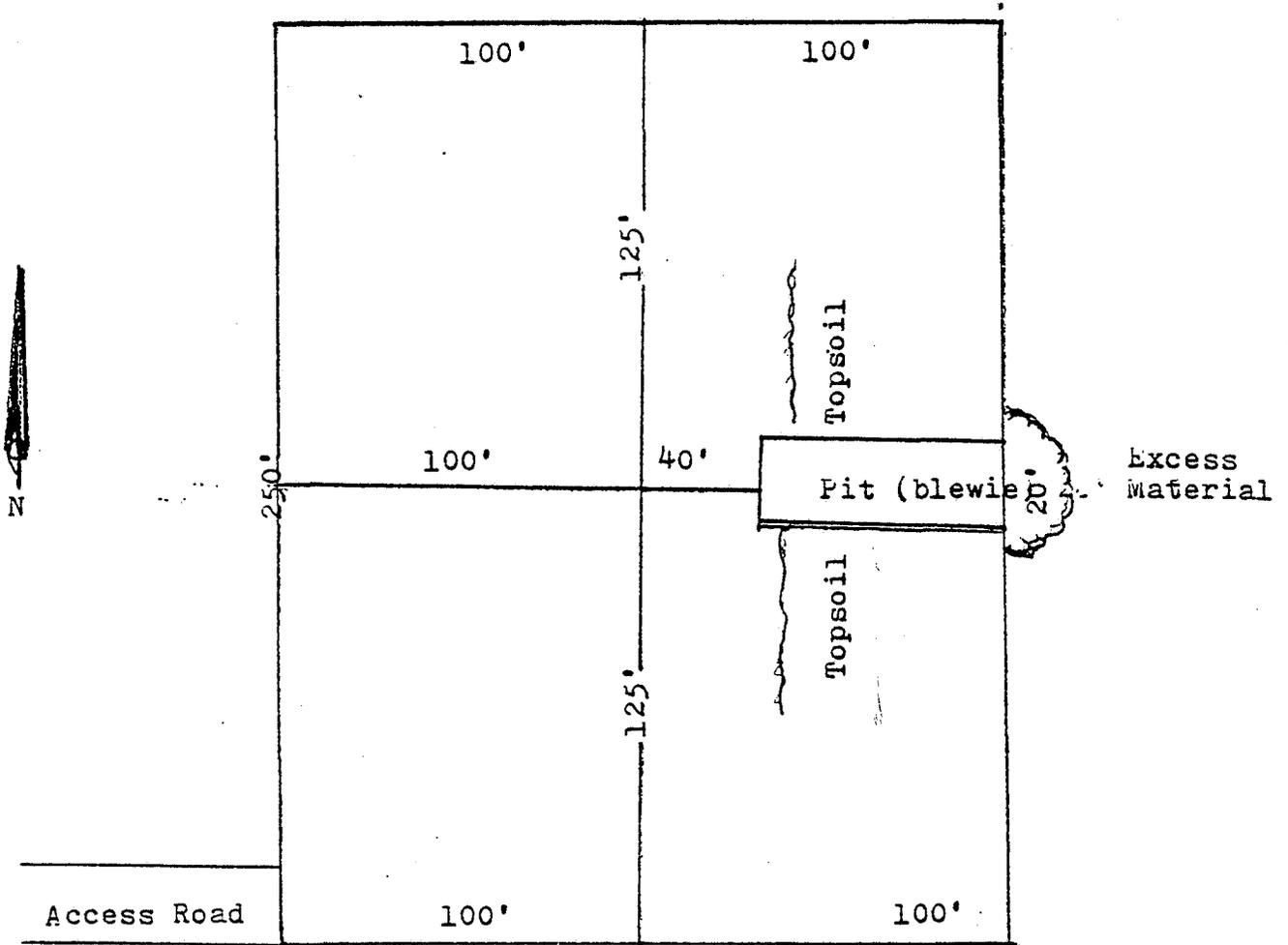


Exhibit "H"  
Drill Rig Layout

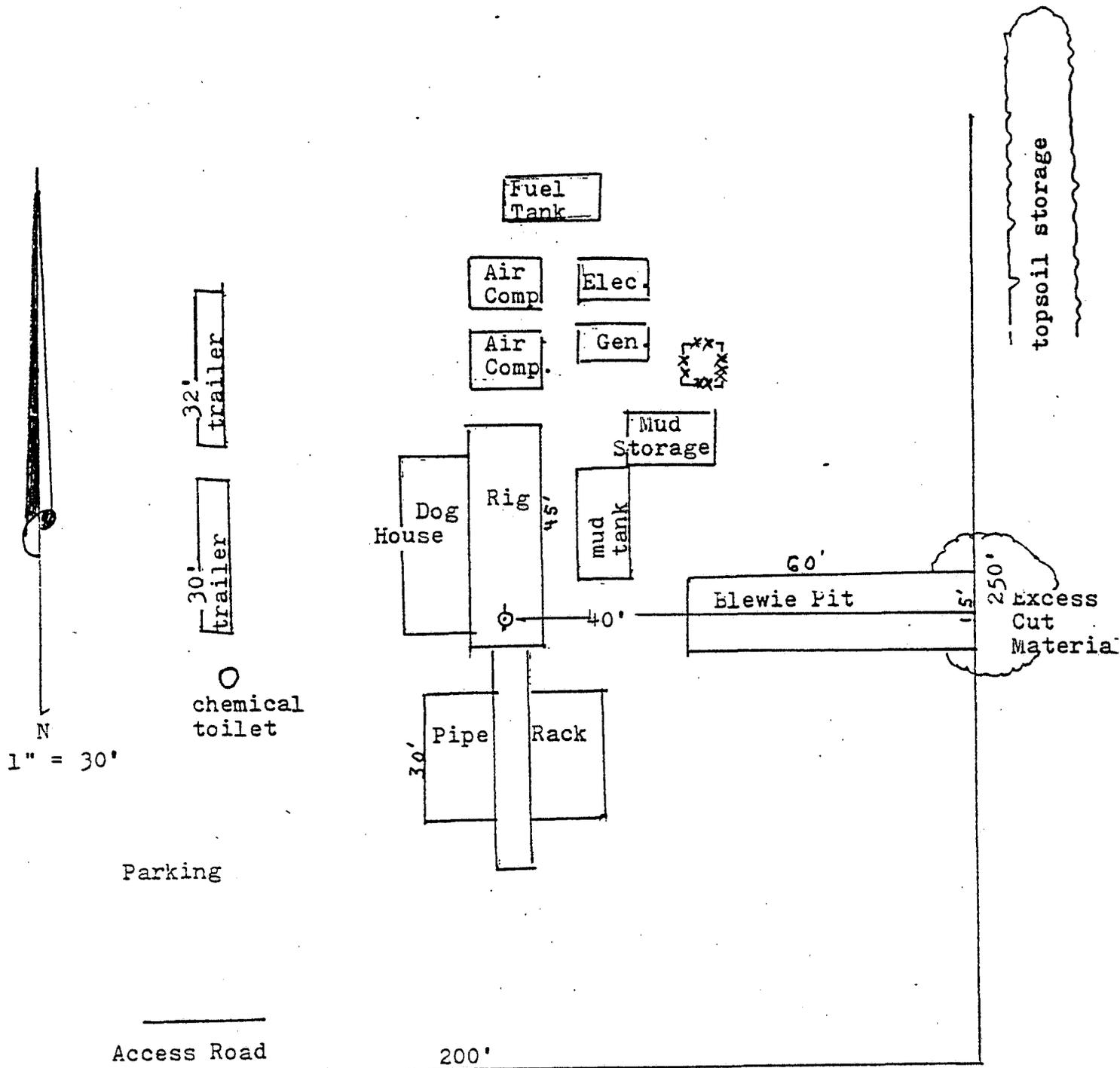
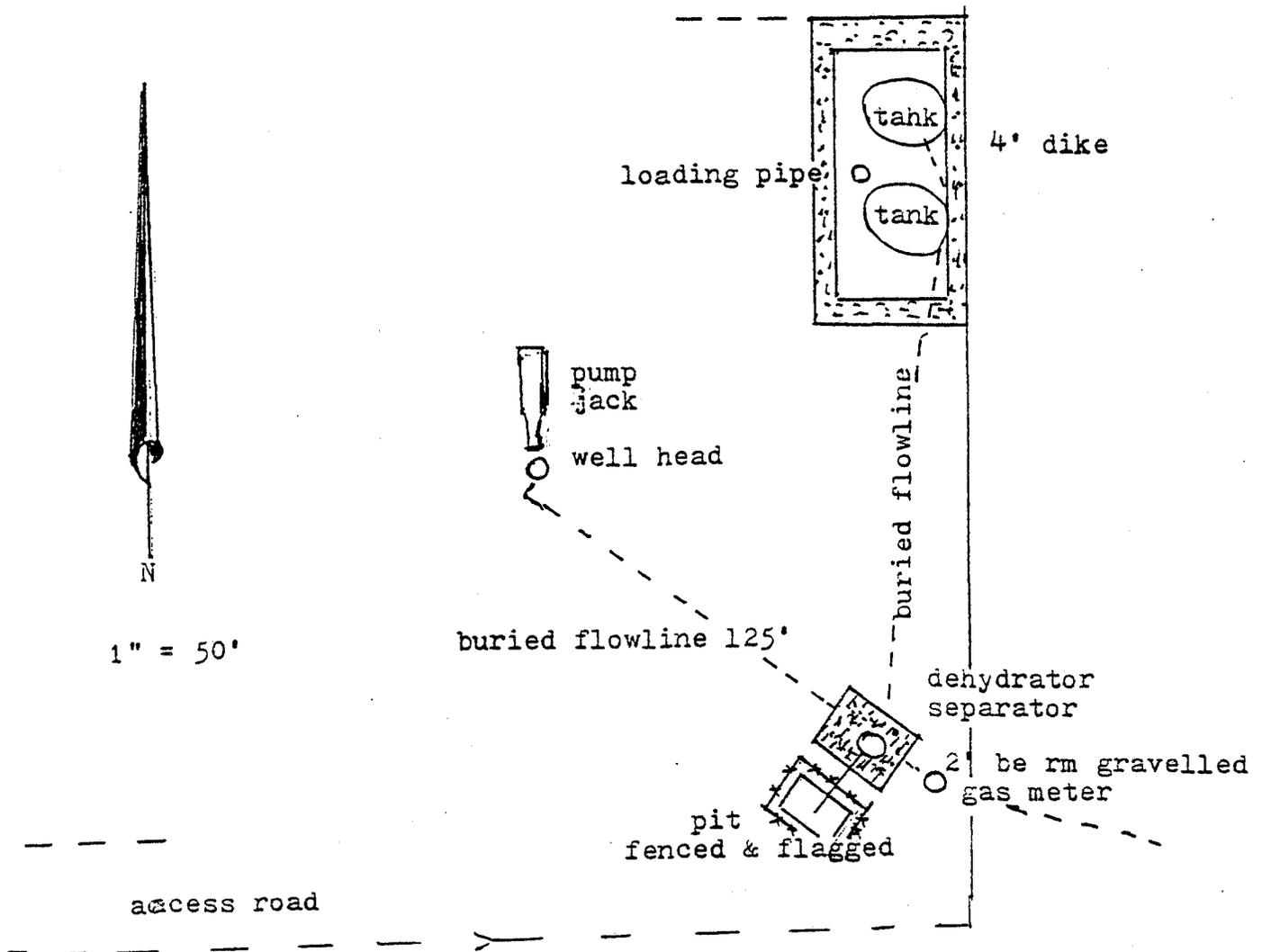


Exhibit "I"  
Production facilities



SUBMIT IN TRIPLICATE

Rule 30 CFR 221.20 requires well shall not be drilled closer than 200 feet from the lease boundary, or 200 feet from any legal subdivision, without adequate reasons or consent.

District Oil and Gas Supervisor  
U. S. Department of the Interior  
Minerals Management Service  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-3884

Re: Stipulation

Dear Sir:

I Walter D. Broadhead, is the owner of Federal oil and gas lease 43383, and proposes to drill a well on the leased premises to test for oil and gas at a location in the SW 1/4 NW 1/4 NW 1/4, Section 5, Township 91 S., Range 24 E, SLB & M Meridian, Grand County, State of Utah, 1300' from N line, and 515' from W line of Section 5.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200 feet from the boundary of any legal sub-division without the written consent of the Oil and Gas Supervisor, Minerals Management Service. The proposed location is approximately 20 from the S boundary line of the NW 1/4 NW 1/4 of Section 5, but is considered to be necessary because of Terrain and Geological Reasons

Therefore, Walter D. Broadhead Lessee, requests the consent of the Oil and Gas Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, I Walter D. Broadhead Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the NW 1/4 NW 1/4, and the SW 1/4 NW 1/4, Section 5, Township 21, Range 24 E, SLB & M Meridian, and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Sincerely,

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM OF NTL-6

APPROVAL OF OPERATIONS

Walter D. Broadhead

Federal Altrogg #1  
Sec. 5 T21S R24E S1M & B  
Grand County, Utah

1. Geologic Surface Formation

The surface formation is Mancos.

2. Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Salt wash	1300'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

<u>Formation</u>	<u>Depth</u>	<u>Fluids</u>
Salt Wash	1300'	Gas and/or Oil and/or Water

4. Proposed Casing Program

Surface Casing:

- (a) Drill 8 5/8" hole to 100' and set 7" 17-lb. cemented to surface.
- (b) Drill 6 1/4" hole to 1300 and set 4 1/2" 9.5-lb. with 100-sx cement (50% excess).

5. Operator's Minimum Specifications for Pressure Control

Exhibit "C" is a schematic diagram of the blowout preventer equipment planned for use in this well. The BOP's will be hydraulically tested to 1000 psi after nipping up and after any use under pressure. Pipe rams will be operationally checked each trip. All tests will be recorded in the daily drilling report. Accessories to BOP's include Kelly Cock, safety valve, drill string BOP and choke with pressure rating equivalent to the BOP stack.

6. Type of Characteristics of Proposed Muds

The well will be drilled with air and air mist until water is encountered, then it will be completed with mud. One hundred barrels of 8.5- to 9-lb. mud will be mixed up for use in drilling or in the event it is needed to kill well or logging operations.

7. Auxiliary Equipment to be Used

- (a) Kelly Cock will be kept in the string.
- (b) A full opening stabbing valve will be on the floor for use, when the Kelly is not in the string.
- (c) A float will be run at the bit.
- (d) Monitoring equipment will be installed and used on the mud system.

8. The Testing, Logging and Coring Programs

- (a) Drill stem tests are not planned at this time.
- (b) The logging program will consist of Induction Electric & Compensated Nuclear Density.
- (c) No coring is planned.
- (d) Drilling samples will be caught at 30' intervals BSC to 1000; from 1200 to TD samples at 5' intervals.

9. Any Anticipated Abnormal Pressures or Temperatures Expected

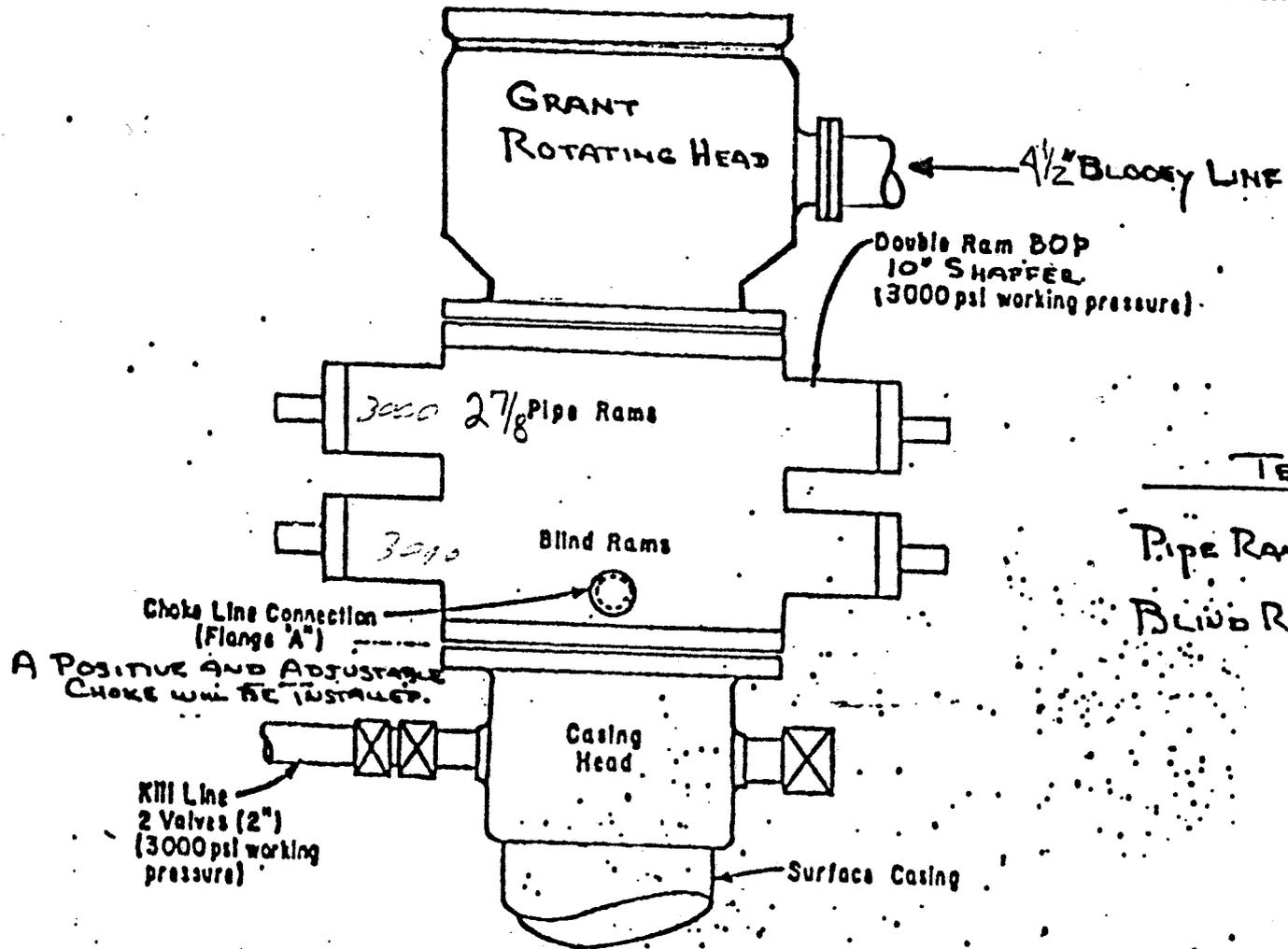
No abnormal gas pressures or temperatures are expected. No hydrogen sulfide or other hazardous gasses or fluids have been reported in the area.

10. Anticipated Starting Date and Duration of Operations

The anticipated starting date is May 15, 1982 or as soon as possible after approval of all drilling requirements.

Drilling operations should be completed 7 to 10 days after spudding.

EXHIBIT "C"



TESTING FREQUENCY

PIPE RAMS: DAILY  
BLIND RAMS: EVERY TRIP

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY APD

1. Existing Roads

- A. Exhibit "A" is the proposed well site as staked by Udell Williams and the ground elevation is shown thereon.
- B. Exhibit "E" is the route and distance road map. The location is 3 miles northeasterly from Cisco, Utah. Turn left on an existing dirt road and travel approximately 1/8 th of a mile and there you will see the site.
- C. Exhibit "F" is a print of the Cisco Quadrangle and shows the access road to the location.
- D. All known existing roads appear on Exhibits "E" & "F"
- E. This is considered a Development Well.
- F. All roads from Cisco to the location are in good condition and carry heavy truck traffic regularly. The next 0.3 mile of existing roadway will be maintenance graded as equipment moves in to construct well pad.

2. Planned Access Roads

The 0.3 mile of new access road will be of minimum disturbance. The brush will be bladed off and windrowed along the Northerly side of the road.

- (1) The typical section of the proposed access road will be 16' in width.
- (2) Maximum grade will be 2% to 4%.
- (3) No turnouts are required.
- (4) (5) No culverts are necessary.
- (6) Surface material will be that native to the area.
- (7) No gates or cattleguards are required.
- (8) The proposed access road has been flagged.

### 3. Location of Existing Wells

For all existing wells within a one-mile radius of the development well, see Exhibit "F".

- (1) There are no water wells.
- (2) Abandoned wells - see Exhibit "F".
- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no drilling wells.
- (6) Producing wells - see Exhibit "F".
- (7) There are no shut-in wells.
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other resources.

### 4. Location of Existing and/or Proposed Facilities

- A. Within a one-mile radius of this location are existing facilities owned or controlled by lessee/operator as shown on Exhibit "F".
- B.
  - (1) Exhibit "I" shows all anticipated production facilities.
  - (2) The dimensions of production facilities shown on Exhibit "I" are drawn to a scale of 1" = 40'.
  - (3) The only construction materials needed from outside the location would be gravel for a pad under separator and/or dehydrator unit. Gravel would be trucked into the location over the access road by the dirt contractor from the nearest commercial pit in the Cisco area.
  - (4) If a small pit is required, it will be fenced and flagged.
- C. Rehabilitation, whether the well is productive or not, will be made on unused areas as soon as practical in accordance with the restoration plans presented in Item 10 following.

### 5. Location and Type of Water Supply

- A. Water will be trucked from Cisco Springs, 11 road miles Westerly of the location.
- B. Water will be trucked over the access road by oilfield water trucks.
- C. No water well is planned.

### 6. Source of Construction Materials

A., B., C., D.

No construction materials are needed for drilling operations. In the event of production, the small amount of gravel needed for facilities will be hauled in by truck from local gravel pit in the Cisco area. No special access other than for the drilling operation is needed.

## 7. Methods for Handling Waste Disposal

- (1) Drill cuttings will be buried in the reserve pit when covered.
- (2) Drilling fluids will be contained in steel mud pits and the reserve pit. These fluids will be disposed of in the reserve pit.
- (3) Any hydrocarbon liquids produced while drill stem testing or production testing will be collected in a test tank set near the pipe baskets or near the wellhead. Any unavoidable spills of oil or other adverse substances or materials will be covered or removed immediately during drilling progress or during completion operations.
- (4) Chemical toilet facilities will be provided for human waste.
- (5) Garbage and trash will be collected in a trash cage and its contents hauled to the nearest designated landfill.
- (6) The entire site will be cleaned up and restored to a smooth contour when the rig moves out. Only that part of the location required for production will be used.

## 8. Ancillary Facilities

No air strips, camps or other living facilities will be built off the location. The normal trailers will be on the location as seen on Exhibit "H".

## 9. Well Site Layout

- (1) Exhibit "G" is the drill pad layout. Topsoil will be stockpiled to specifications determined at the pre-drill inspection.
- (2) (3) The mud tanks, reserve pit, trash cage, pipe racks, living facilities, and soil material stockpiled, rig orientation, parking areas and access road are all shown on Exhibit "H".
- (4) The reserve pits will not be lined. Steel mud tanks will be used, and are shown on Exhibit "H". If water is produced in production, an NTL-2b study will be initiated.

## 10. Plans for Restoration

- (1) Backfilling, leveling, and recontouring will be accomplished as soon as possible after plugging of the well, and on those unused areas if production is obtained. Waste disposal and spoils materials will be buried or hauled away.
- (2) Rehabilitation will be accomplished by recontouring as best practical back to blend with original contours. The stockpiled topsoil will be spread, along with ripping of the pad and road area (if so desired by surface owner). Revegetation will be accomplished using grasses chosen by B.L.M.

- (3) Three sides of the reserve pit will be fenced prior to drilling operations. Upon rig release, the reserve pit will be fenced on the fourth side and will remain until recontouring and cleanup operations are completed.
- (4) Any oil spills will be immediately reported, cleaned up, or flagged.
- (5) Rehabilitation operations will commence as soon as practical after rig moves off location. Earth work and seeding will be done during fall of 1982 if possible.

11. Other Information

As indicated on Exhibit "F", the topography of the location vicinity has very little relief. The location lies on a gentle plain which slopes Southeasterly 1-2%. This location lies Northwesterly of the existing Agate Oil Field.

The soil is a light tan to grey shallow soil, typical of Mancos formation.

The vegetation in the immediate area surrounding the location is sagebrush, Matt saltbush, shadscale, prickly pear cactus, Russian thistle, greasewood, and cheatgrass.

The fauna of the area consists of cattle, sheep, antelope, rabbits, lizards, ravens, meadow lark, killdeer, ground sparrows and martens.

The surface ownership is B.L.M. The surface use is grazing, petroleum production, and recreation.

The nearest live water is Cisco Springs, 10 air miles Westerly of the location.

The nearest occupied dwelling is in Cisco, Utah, 3.5 road miles Southwesterly of the location, as shown on Exhibit "E".

There are no visible archaeological, historical, or cultural sites within any reasonable proximity to the proposed location site.

There are no reported restrictions or reservations noted on the oil and gas lease.

12. Lessee's or Operator's Representative

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501  
Telephone 303/242-7717

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by my contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

\_\_\_\_\_

Date

\_\_\_\_\_

Name and Title

MINERALS MANAGEMENT  
SERVICE  
OIL & GAS OPERATIONS  
RECEIVED

Identification No. 276-82

JUN 8 1982 United States Department of the Interior  
Minerals Management Service  
SALT LAKE CITY, UTAH 2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Walter Broadhead

Project Type Oil-Gas well-Development

Project Location 1300 ENL S25FWL SEC 5 T21S R24E

Well No. Fed Agency #1 Lease No. U-43383

Date Project Submitted 4-30-82

FIELD INSPECTION

Date 5-25-82

Field Inspection  
Participants

Craig Hansen mms-Vernal  
Paul Brown mms-Blm  
Walter Broadhead

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

6-1-82  
Date Prepared

Craig M. Hansen  
Environmental Scientist

I concur

JUN 08 1982  
Date

W. Martens FOR E. W. GUYNN  
DISTRICT OIL & GAS SUPERVISOR  
District Supervisor



Recommended stipulations for Broadhead  
Fed Altrog #1.

1. Location will be moved 25' East  
to reduce Cut and fill.
2. Production facilities will be  
painted a color to blend in  
with the natural surroundings.
3. Production facilities will be  
placed on the ~~East~~ East Edge of  
of the location and bermed  
to protect any spills.
4. Block lines will be misted to  
reduce visual impacts to T  
70.
5. water will be obtained from Cotton  
wood Creek north of the location.
6. pads will be reduced to 150 x 150.
7. topsoil will be placed on the  
South Edge of the location.
8. Operator will adhere to Bm Surface Strucktion,

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey  
(Conservation Division, Geological Division, Water Resource Division,  
Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement

UNITED STATES DEPARTMENT OF INTERIOR  
BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE

WILDERNESS PROTECTION STIPULATION

By accepting this lease, the lessee acknowledges that the lands contained in this lease are being inventoried or evaluated for their wilderness potential by the Bureau of Land Management under section 603 of the Federal Land Policy and Management Act of 1976, 90 Stat. 2743, 2785 (43 U.S.C. Sec. 1782).

Until the BLM determines that the lands covered by this lease do not meet the criteria for a wilderness study area as set forth in section 603, or until Congress decides against the designation of lands included within this lease as "wilderness," the following conditions apply to this lease, and override every other provision of this lease which could be considered as inconsistent with them and which deal with operations and rights of the lessee:

1. Any oil or gas activity conducted on the leasehold for which a surface use plan is not required under NTL-6 (for example; geophysical and seismic operations) may be conducted only after the lessee first secures the consent of the BLM. Such consent shall be given if BLM determines that the impact caused by the activity will not impair the area's wilderness characteristics.
2. Any oil and gas exploratory or development activity conducted on the leasehold which is included within a surface use plan under NTL-6 is subject to regulation (which may include no occupancy of the surface) or, if necessary, disapproval until the final determination is made by Congress to either designate the area as wilderness or remove the section 603 restrictions.

If all or any part of the area included within the leasehold estate is formally designated by Congress as wilderness, oil and gas exploration and development operations taking place or to take place on that part of the lease shall become subject to the provisions of the Wilderness Act of 1964 which apply to national forest wilderness areas, 16 U.S.C. Sec. 1131 et seq., as amended, the Act of Congress designating the land as wilderness, and Interior Department regulations and policies pertaining thereto.



# United States Department of the Interior

IN REPLY REFER TO

3109  
(U-068)

BUREAU OF LAND MANAGEMENT

Moab District  
Grand Resource Area  
P.O. Box M  
Moab, Utah 84532

JUN 04 1982

Memorandum

To: Oil & Gas Office, Minerals Management Service  
P.O. Box 1037  
Vernal, Utah 84078

From: Area Manager, Grand

Subject: Permit to Drill (APD)  
Altrogg #1, U-43383  
Section 5, T. 21 S., R. 24 E.  
Grand County, Utah

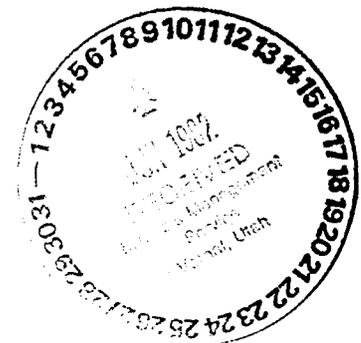
On May 25, 1982 a representative from this office met with Cody Hansen, Minerals Management Service (MMS), and Walter Broadhead, for an inspection of the above referenced location. Subject to the attached conditions and written approval from MMS, I am approving the surface management portion of the Application for Permit to Drill.

The archaeological requirement has been fulfilled on this location. No threatened or endangered flora or fauna are indicated in the area.

Please forward the enclosed information to Walter D. Broadhead.

ACTING

Enclosures (3)  
1-Reclamation Procedures  
2-Seed Mixture  
3-Suggested Colors - Productions Facilities



ADDITIONS TO THE MULTIPOINT  
SURFACE USE PLAN  
AND  
RECLAMATION PROCEDURES

CONSTRUCTION:

- 1). The operator or his contractor will contact the Grand Resource Area Office in Moab, Utah (phone (801) 259-6111) 48 hours prior to beginning any work on public land.
- 2). The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.
- 3). Use of water from sources such as wells, springs, streams or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right.
- 4). If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the Grand Resource Area Office will be contacted. All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.
- 5). Improvement to the existing road will be necessary only if location is a producer. If so, the existing road will be upgraded to 16 feet travel surface.

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.

Surfacing material will not be placed on the access road or location without prior BLM approval.

6. Location: Satisfactory as planned with following changes: Move 25 feet to East to reduce width and fill.
7. The top 4 inches of soil material will be removed from the location and stockpiled on the south side of the location. Topsoil will be reserved in place.
8. The reserve pit will not be lined with commercial bentonite or plastic sufficient Keyway. The reserve pit banks will be 1.5 to 2.0 feet above pad and constructed in 8" lifts, machinery compacted, and sufficiently wide for equipment to pass over.

9. Three sides of the reserve pit will be fenced 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. The fence will be 36 inches woven wire.

## PRODUCTION

1. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. All of the stockpiled topsoil will be used in reclaiming the unused areas.
2. All above-ground production facilities will be painted using the attached suggested colors.
3. The access will be to the design of a class III road.

## REHABILITATION

1. Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operation. All trash will be disposed of in the trash cage. Non-burnable debris will be hauled to a local town dump site.
2. The operator or his contractor will contact the Grand Resource Area BLM Office in Moab, Utah, phone (801) 259-6111, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.
3. Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal etc.) it contains must be removed from public lands.
4. All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.
5. The stockpiled topsoil will be evenly distributed over the disturbed area.
6. The disturbed areas will be scarified with the contour to a depth of 6 inches. Do not smooth pads out, leave a roughened surface.
7. Seed will be (broadcast/drilled) at a time to be specified by the BLM with the following seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.
8. Waterbars will be used on all sloping surfaces as shown below:

<u>Grade</u>	<u>Spacing</u>
2%	200 feet spacing
2-4%	100 feet spacing
4-5%	75 feet spacing
+5%	50 feet spacing

SEED MIXTURE

<u>Species</u>		<u>Rate</u>
<u>Grasses</u>		
Hilaria jamesii	Galleta (Curlygrass)	1
Oryzopsis hymenoides	Indian ricegrass	1
<u>Forbs</u>		
Aster chilensis	Pacific aster	1
Sphaeralcea coccinea	Scarlet globemallow	1
<u>Shrubs</u>		
Atriplex canescens	Fourwing saltbush (White greasewood)	1
		<hr/>
		5 lbs/acre

Broadcast seed will be applied at double the above rate.  
Seeding will be done in the fall of the year (Oct. - Dec.)



# United States Department of the Interior

BUREAU OF LAND MANAGEMENT

IN REPLY REFER TO

## SUGGESTED COLORS TO PAINT OIL & GAS PRODUCTION FACILITIES

### Cisco Desert and Flats below the Bookcliffs:

Dynasty Green	(Sears)
Tumbleweed	(Pratt & Lambert)
Sage Gray	(Pratt & Lambert)

### Bookcliffs Region:

Sage Gray	(Pratt & Lambert)
Sea Life	(Pratt & Lambert)
Dynasty Green	(Sears)

Similar hues other than the ones mentioned above must be approved by the Grand Resource Area Manager.

\*\* FILE NOTATIONS \*\*

DATE: June 28, 1982

OPERATOR: Walter W. Broadhead

WELL NO: Federal Altragey # 1

Location: Sec. <sup>NW NW</sup> 5 T. 21S R. 24E County: Grand

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-019-30958

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Director: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Administrative Aide: <sup>05</sup> As Per Order Below  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. 102-116B, 9-26-79

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 Fed

Plotted on Map

Approval Letter Written

Hot Line

P.I.

June 30, 1982

Walter D. Broadhead  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Federal Altrogg #1  
Sec. 5, T21S, R24E  
Grand County

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. 102-16B, dated 09-26-79.

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

CLEON B. FEIGHT  
Office: 533-5771  
Home: 466-4455

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 43-019-30958.

Sincerely,



RONALD J. FIRTH  
CHIEF PETROLEUM ENGINEER

RJF:SC  
cc: Minerals Management Service  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 21, 1983

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Re: Well No. Federal Altrogg # 1  
Sec. 5, T. 21S, R. 24E.  
Grand County, Utah

Well No. Federal Altrogg # 2  
Sec. 5, T. 21S, R. 24E.  
Grand County, Utah

Well No. Federal Broadhead # 17-#1  
Sec. 17, T. 21S, R. 24E.  
Grand County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill these locations at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Well Records Specialist

CF/cf

NOTICE OF SPUD

Company: Walter D Broadhead

Caller: Walter D. Broadhead

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

Well Number: 1

Location: NW1/4 5-21S-24E

County: Grand State: Utah

Lease Number: U-43383

Lease Expiration Date: \_\_\_\_\_

Unit Name (If Applicable): \_\_\_\_\_

Date & Time Spudded: 6-20-83 3:00 P.M.

Dry Hole Spudder/Rotary: \_\_\_\_\_

Details of Spud (Hole, Casing, Cement, etc.) 9 7/8" Hole  
Setting 8 3/4" csg.

Rotary Rig Name & Number: \_\_\_\_\_

Approximate Date Rotary Moves In: \_\_\_\_\_

FOLLOW WITH SUNDRY NOTICE

Call Received By: HR

Date: 6-22-83

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: WALTER BROADHEAD

WELL NAME: Federal Altrogg #1

SECTION NWNW 5 TOWNSHIP 21S RANGE 24E COUNTY Grand

DRILLING CONTRACTOR Richardson

RIG # 1

SPUDDED: DATE 6-21-83

TIME 3:00 P.M.

How Rotary

DRILLING WILL COMMENCE \_\_\_\_\_

REPORTED BY Walter Broadhead

TELEPHONE # 303-242-7717

DATE 6-22-83 SIGNED AS

OPERATOR APPROVAL TO PLUG AND ABANDON WELL

Operator Walter D. Broadhead Representative Walter Broadhead

Weil No. #1 Located NW 1/4 NW 1/4 Sec. 5 Twp. 21S Range 24E

Lease No. U-43383 Field W/C State Utah

Unit Name and Required Depth NA Base of fresh water sands \_\_\_\_\_

T.D. 1200 Size hole and Fill Per Sack 6 1/4" Mud Weight and Top 10 2 #/gal. \_\_\_\_\_

Casing Size	Set At	Top of Cement	To Be Pulled	Plugging Requirements		
				From	To	Sacks Cement
<u>8 5/8</u>	<u>92</u>	<u>circulated</u>		<u>0</u>	<u>125</u>	<u>w/req marker</u>
<u>Formation</u>	<u>Top</u>	<u>Base</u>	<u>Shows</u>			
<u>Muncie</u>	<u>surface</u>			<u>550</u>	<u>750</u>	<u>As required</u>
<u>Dakota</u>	<u>760</u>					
<u>Harrison</u>	<u>890</u>					
<u>Brach Basin</u>	<u>1060</u>			<u>1000</u>	<u>1200</u>	<u>as required</u>
<u>Scott Wash</u>	<u>1200</u>					

Remarks

DST's, lost circulation zones, water zones, etc. Air drilled - no shows  
Fill in all holes (rat hole, mouse hole, collar), pick up all  
debris, trash, etc, sold in reserve pit, rehabilitate according  
to surface use plans

Approved by WDM (EW Guynn) Date 6-25-83 Time 1:20 P.M.

CC: OPERATOR w/conditions of approval  
 BCM - Hooks  
 File this copy

MER  
 Control  
 Max Wood



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 15, 1983

Walter D. Broadhead  
1645 North 7th Street  
Grand Junction, Colorado 81501

Re: See attached sheet

Dear Mr. Broadhead:

Our records indicate that you have not filed the monthly drilling reports for the months indicated above on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1B, (U.S. Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

We will be happy to acknowledge receipt of response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse  
Well Records Specialist

CF/cf  
Enclosure

Well No. Tomlinson Fee # 1  
300' FNL, 2340' FEL  
NW NE, Sec. 12, T. 21S, R. 23E.  
Grand County, Utah  
(March 1983 - August 1983)

Well No. Federal Altrogg # 1  
1300' FNL, 525' FEL  
NE NE, Sec. 5, T. 21S, R. 24E.  
Grand County, Utah  
(July 1983 - August 1983)

Well No. Federal # 17 Broadhead # 1  
500' FNL, 1565' FWL  
NE NW, Sec. 17, T. 21S, R. 24E.  
Grand County, Utah  
(June 1983 - August 1983)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**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 Form 9-331-C for such proposals.)

1. oil well  gas well  other

2. NAME OF OPERATOR

3. ADDRESS OF OPERATOR

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE:  
AT TOP PROD. INTERVAL:  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input checked="" type="checkbox"/>		<input type="checkbox"/>
(other)			

5. LEASE U-43383 ✓	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME Federal Broadhead	
9. WELL NO. Fed Altrogg #1	
10. FIELD OR WILDCAT NAME Greater Cisco	
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA S5 T21S R24E S1M	
12. COUNTY OR PARISH Grand	13. STATE Utah
14. API NO. 43-019-30958	
15. ELEVATIONS (SHOW DF, KDB, AND WD) 4425 Gr	

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)\*

Surface 91" 8 5/8 26 lb. cement 35 SX

6 1/4 in hole to 960' with air

Drilled with air mist to TD at 1200'

**Plugged;**

1000 - 1200 with 40SX

550 - 750 with 45SX

125 to surface with 40 SX with marker

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

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

SIGNED Walter D. Broadhead TITLE operator DATE 9/23/83

(This space for Federal or State office use)

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

**RECEIVED**  
OCT - 3 1983  
DIV. OF OIL, GAS & MINING

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 9/23/83  
BY: [Signature]

\*See Instructions on Reverse Side

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.

5. LEASE DESIGNATION AND SERIAL NO.  
U-43383

6. IF INDIAN; ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal Broadhead

9. WELL NO.

Federal Altrogg #1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

S5, T21S, R24E, SIM

NW $\frac{1}{4}$ , NW $\frac{1}{4}$

12. COUNTY OR PARISH

Grand

13. STATE

Utah

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

2. NAME OF OPERATOR  
Walter D. Broadhead

3. ADDRESS OF OPERATOR  
1645 No. 7th Grand Jct. Co. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1300' FNL & 500' FWL S5 T21S 24E NWNW  
At top prod. interval reported below 525  
At total depth

14. PERMIT NO. DATE ISSUED  
43-019-30958

15. DATE SPUDED 6/21/83 16. DATE T.D. REACHED 6/25/83 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4425 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 1200 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY rotary 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 none 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
8 5/8	261b.	91'		35SX	none

29. LINER RECORD 30. TUBING RECORD

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

31. PRODUCTION INTERVAL (Interval, size and number)  
Plugs  
1000' 1200' with 40SX.  
550' - 750' with 45SX  
10SX at surface & dry hole marker

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.  
DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED

33.\* PRODUCTION  
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in)

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

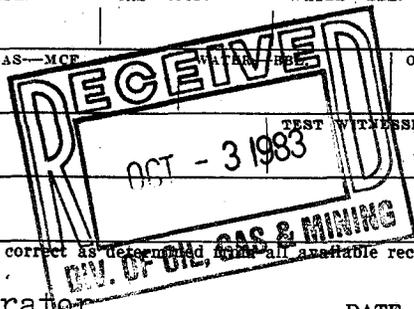
FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

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 Walter D Broadhead TITLE Operator DATE 9/23/83



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

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 Federal Altrogg #1  
Operator Walter D. Broadhead Address 1645 North 7th G Jct. Co.  
Contractor Richardson Drilling Address 385 Kirby lane  
Location NW 1/4 NW 1/4 Sec.      T. 21 S R. 24E County Grand

Water Sands

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1.	760' to 780'	1 to 2 Gallon per minute	
2.			
3.			
4.			
5.			

(Continue on reverse side if necessary)

Formation Tops Dakota 760

Remarks Air drilled to 780' Mist drilled to T.D.

- 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.