

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED **5/8/90**

LAND: FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. **U-26421** INDIAN \_\_\_\_\_

DRILLING APPROVED: **7/3/90**

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

COMPLETED: **1-13-92 LA** PUT TO PRODUCING: \_\_\_\_\_

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

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

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

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

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

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: **LA'D PER BLM EFF 1-13-92**

FIELD: **GREATER CISCO**

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

COUNTY: **GRAND**

WELL NO. **FEDERAL 6-4** API NO. **43-019-31302**

LOCATION **1263' FNL** FT. FROM (N) (S) LINE, **1779' FWL** FT. FROM (E) (W) LINE. **NENW** 1/4 - 1/4 SEC. **6**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<b>21S</b>	<b>24E</b>	<b>6</b>	<b>WALTER BROADHEAD</b>				

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   
 SINGEL ZONE  MULTIPLE ZONE

RECEIVED  
MAY 08 1990

2. NAME OF OPERATOR  
Walter D. Broadhead

3. ADDRESS OF OPERATOR  
DIVISION OF OIL, GAS & MINING  
1645 North 7th St. Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
At surface 1263 FNL 1779 FWL NEW  
At proposed prod. zone

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

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

16. NO. OF ACRES IN LEASE  
1,975.40

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  
1,300 ft. Salt Wash

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4429 gr.

22. APPROX. DATE WORK WILL START\*  
5-20-1990

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-3/4" surf.	7-5/8"	20 lb	150'	circulate to surface
6-1/4" surf.		10.5 lb.		35 SX

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 4-7-1990

(This space for Federal or State office use)

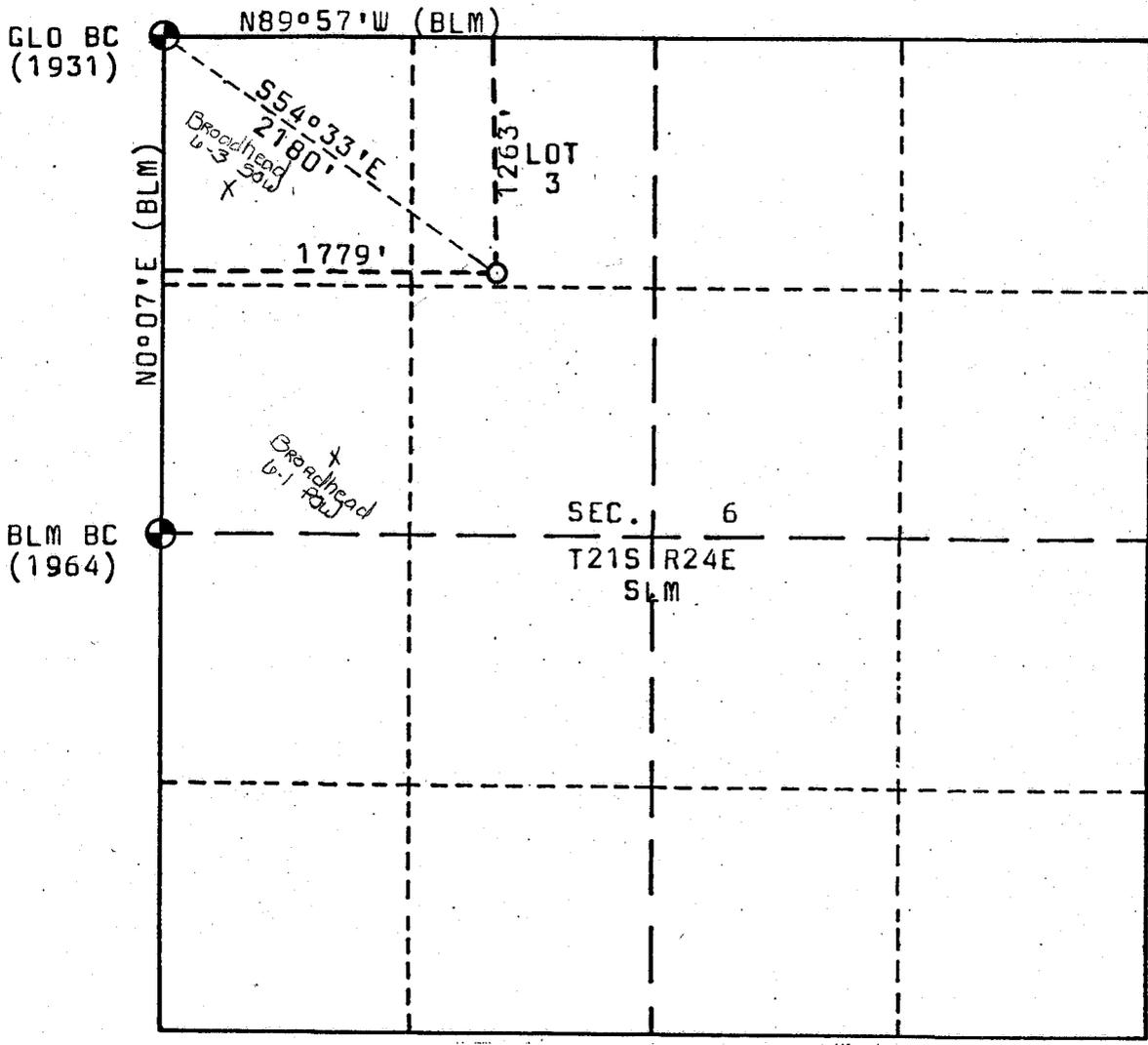
PERMIT NO. 43-019-31302

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

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

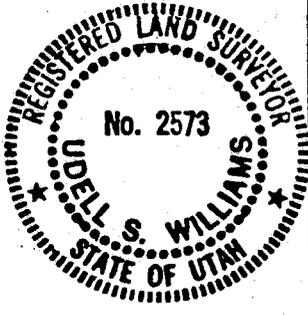
DATE: 7-3-90  
BY: John R. Bara  
WELL SPACING: 100'-N-B

\*See Instructions On Reverse Side



**FEDERAL NO. 6-4**

Located 1263 feet from the North line and 1779 feet from the West line of Section 6, T21S, R24E, SLM.  
 Elev. 4429  
 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

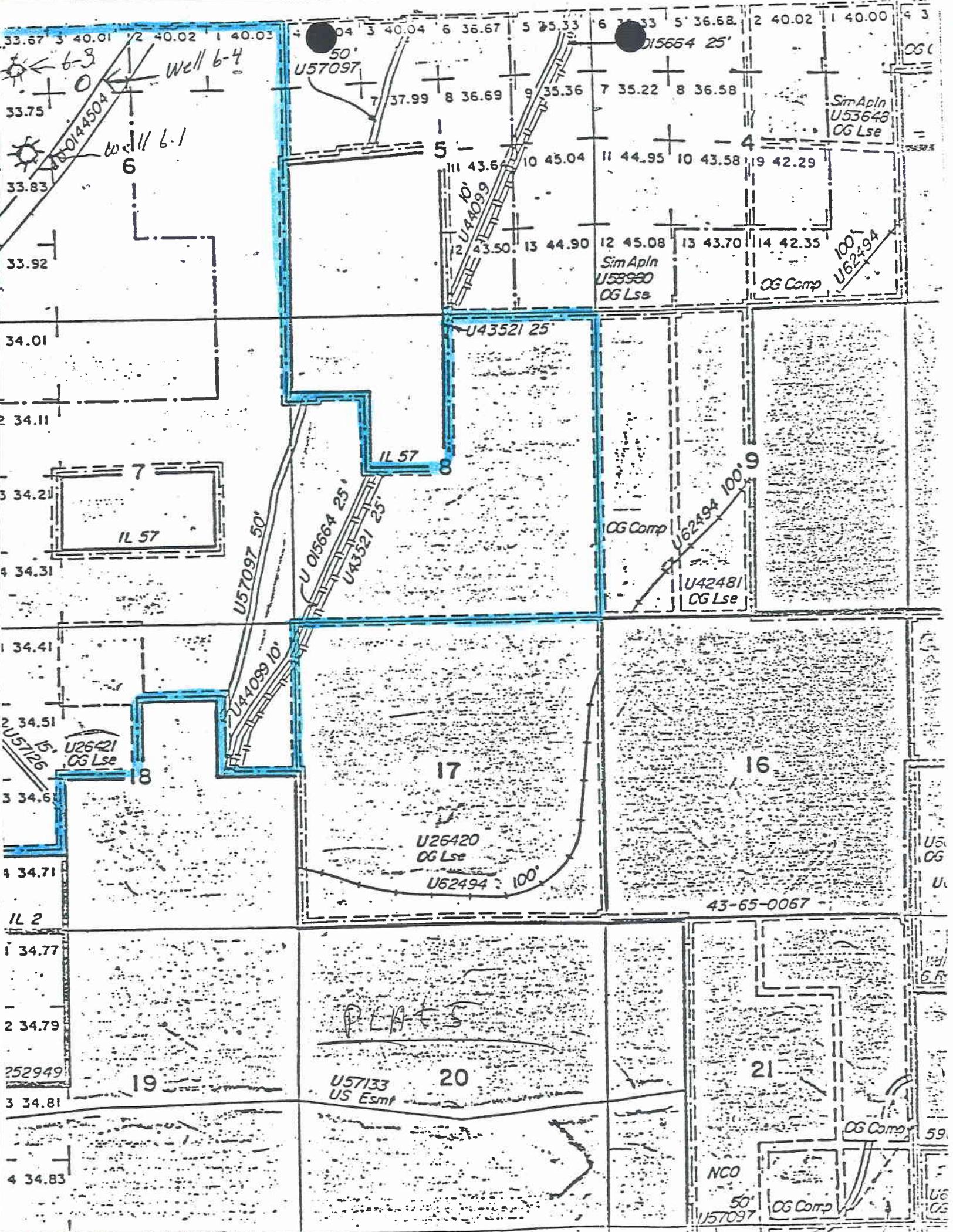
*Udell S. Williams*  
 Utah RLS No. 2573



**UDELL S. WILLIAMS**  
 751 Rood Avenue  
 Grand Junction, Colorado 81501

PLAT OF  
 PROPOSED LOCATION  
**FEDERAL NO. 6-4**  
**LOT 3 SECTION 6**  
**T21S, R24E, SLM**

SURVEYED BY: USW DATE: 4/6/98  
 DRAWN BY: USW DATE: 4/6/98



33.67 3 40.01 2 40.02 1 40.03 4 3 40.04 6 36.67 5 35.33 6 33.33 5' 36.68. 2 40.02 1 40.00 4 3

Well 6-3  
Well 6-4  
Well 6-1  
U014450A

33.75  
33.83  
33.92  
34.01  
34.11  
34.21  
34.31

7  
IL 57

U57097 50'  
U44099 10'  
U015664 25'  
U43521 25'

15  
U26421  
OG Lse  
U57126  
18  
34.51  
34.6  
34.71  
IL 2  
34.77

19  
34.81  
34.83

50' U57097  
U015664 25'  
Sim ApIn U53648 OG Lse  
OG Comp  
U44099 10'  
U43521 25'  
Sim ApIn U53980 OG Lse  
OG Comp  
U62494 100'

5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
U43521 25'  
IL 57  
OG Comp  
U62494 100'  
U42481 OG Lse

17  
U26420 OG Lse  
U62494 100'  
16  
43-65-0067

PEATS  
20  
U57133 US Esmt  
21  
NCO  
50' U57097  
OG Comp

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT  
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Walter D. Broadhead Well No. Fed.6-4  
Location: Sec. 6 T. 21.S R. 24.E Lease No U-26421  
Onsite Inspection Date 4-9-90

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

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Mancos	0 to	810
Dakota	to	875
Brushy Basin	to	1175
Salt Wash	to	1280

2. Estimated Depth at Which Oil, Gas, Water, or Mineral-Bearing Zones Are Expected to Be Encountered:

	<u>Formation</u>	<u>Depth</u>
Expected oil zones:	Salt Wash	
Expected gas zones:		
Expected water zones:		
Expected mineral zones:	None	

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

3. Pressure Control Equipment:

F. #:

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventors will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventors will be pressure-tested before drilling casing cement plugs. ~~The Resource Area will be notified \_\_\_\_\_ days in advance when pressure tests are to be conducted.~~

4. Casing Program and Auxiliary Equipment:
- Surface 9-3/4" hole
  - Casing 7" to 150 ft.
  - Cement to surface
  - Drill 6-1/4" hole to T.D. Air Drill

Anticipated cements tops will be reported as to depth, not the expected number of sacks. The Resource Area (will ~~be~~) be notified \_\_\_\_\_ days in advance when running casing strings and cement.

5. Mud Program and Circulating Medium:
- Gel mud with K CL. will be used to kill well
  - or drill if necessary

Blooiie line will be misted to reduce fugitive dust when air drilling.

6. Coring, Logging, and Testing Program:
- Drill with air and if any shows of oil or gas
  - is encountered will log

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

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:
- Past drilling in area does not show any abnormal
  - condition. No hydrogen sulfide gas expected.

8. Anticipated Starting Dates and Notification of Operations:

The operator will contact the Resource Area at 801-259-8193, ~~\_\_\_\_\_~~ prior to beginning any dirt work on this location. 48 hours

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

The spud date (will/~~will not~~) be reported orally to the Area Manager within a minimum of twenty-four (24) hours prior to spudding. Written notification in the form of a Sundry Notice (Form 3160-5) will be submitted to the District Office within twenty-four (24) hours after spudding. If the spudding occurs on a weekend or holiday, the written report will be submitted on the following regular work day.

- In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed directly with the BLM District Office, P.O. Box 970, Moab, Utah 84532.

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

If the replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed for prior approval of the District Manager, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergency situations, verbal approval to bring on a replacement rig will be approved by the District Petroleum Engineer.

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

A first production conference will be scheduled within fifteen (15) days after receipt of the first production report. The Resource Area Office will coordinate the field conference.

No well abandonment operations will be commenced without the prior approval of the District Manager. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be

obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5) will be filed with the District Manager within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the Area Manager or his representative, or the appropriate surface managing agency.

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

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The marker will be constructed as follows: \_\_\_\_\_

\_\_\_\_\_

The top of the marker will be closed or capped.

The following minimum information will be permanently placed on the marker plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable, "Well Number, location by 1/4 1/4 section, township and range". "Lease Number".

Other: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

#### B. THIRTEEN-POINT SURFACE USE PLAN

##### 1. Existing Roads:

a. Location of proposed well in relation to town or other reference point: three miles north of Cisco, Utah

See Plat 1

b. Proposed route to location: The road going southwest from north side of the last Cisco exit in Sec. 29. T20S. R24E.

c. Plans for improvement and/or maintenance of existing roads: will use existing road as is while drilling this well. If should be a producer the existing road and new access will be constructed to the Bureau's Class III standard.

d. Other: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

UT-060-3160-1  
(April 1984)

BUREAU OF LAND MANAGEMENT  
MOAB DISTRICT  
CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Walter D. Broadhead Well No. Fed 6-4  
Location: Sec. 6 T. 21S R. 24E Lease No U-26421  
Onsite Inspection Date April 9, 1990

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

B. THIRTEEN-POINT SURFACE USE PLAN

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point:  
Three miles North of Cisco
- b. Proposed route to location:  
The road going southwest from the north side of the last Cisco exit in sec. 29, T20S, R24E.
- c. Plans for improvement and/or maintenance of existing roads:  
None prior th drilling, if producer, maintained to Resource road specifications.

2. Planned Access Roads:

- a. The maximum total disturbed width will be 18 feet.
- b. Maximum grades:  
0 to 6 percent
- g. Other: New construction will be about 1/4 mile.

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

The access road will be rehabilitated or brought to Resource (Class III) Road Standards within sixty (60) days of dismantling of the drilling rig. If this time frame cannot be met, the Area Manager will be notified so that temporary drainage control can be installed along the access road.

3. Location of Existing Wells:

Broadhead 6-1

Broadhead 6-3

4. Location of Tank Batteries and Production Facilities:

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows:

Desert Brown (10YR)

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

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

All site security guidelines identified in 43 CFR 3162.7 regulations and OOGO 3 will be adhered to.

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

All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

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

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:  
Colorado River

Water obtained on private land, or land administered by another agency, will require approval from the owner or agency for use of the land.

6. Source of Construction Material:

Pad construction material will be obtained onsite.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material will be located on lease.

7. Methods of Handling Water Disposal:

The reserve pit will not be lined.

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

All trash must be contained and disposed of by: trash cage

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

8. Ancillary Facilities:

Camp facilities will not be required.

9. Well Site Layout:

The reserve pit will be located on the northwest edge. The top six inches of soil material will be removed from the location and windrowed separately.

10. Plans for Restoration of Surface:

Immediately upon completion of drilling, the location, and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

Before any dirt work to restore the location and surrounding area will be cleared of all remaining debris, materials, trash and junk not required for production.

The operator or his contractor will notify the Grand Resource Area at 801-259-8193 forty-eight (48) hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.

All disturbed areas will be recontoured to the approximate natural contours.

The stockpiled topsoil will be evenly distributed over the disturbed areas.

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The surface will be roughened by use of a disc plow or other piece of equipment that will leave rills and valleys or pits.

Seed will be broadcast or drilled at a time specified by the BLM. If broadcast, a harrow or some other implement will be dragged over the seeded area to assure seed coverage.

The following seed mixture will be used:

Indian ricegrass

Western Wheatgrass

Streambank wheatgrass or thickspike wheatgrass

Barley (local)

mat saltbush

Shadscale

Note: This is subject to change depending upon the circumstances.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed.

11. Surface and Mineral Ownership:

Federal surface and minerals

12. Other Information:

Vegetation is sparse and includes mat saltbush, nuttall saltbush, and Indian ricegrass; sheep, cattle, and antelope use the area.

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

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

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

A cultural resource clearance will not be required before any construction begins. If any cultural resources area found during construction, all work will stop and the Area Manager will be notified.

This permit will be valid for a period of one (1) year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

13. Leessee's Operator's Representative and Certification

Representative:

Name:

Walter D Broadhead

Address:

1645 N. 7th Grand Junction Co. 81501

Phone No:

303-242-7717

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed

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

April 11, 1990

Date

Walter D. Broadhead, Operator

Name & Title

Walter D Broadhead

Figure 1

3704  
REGAN FORGE & ENGINEERING COMPANY

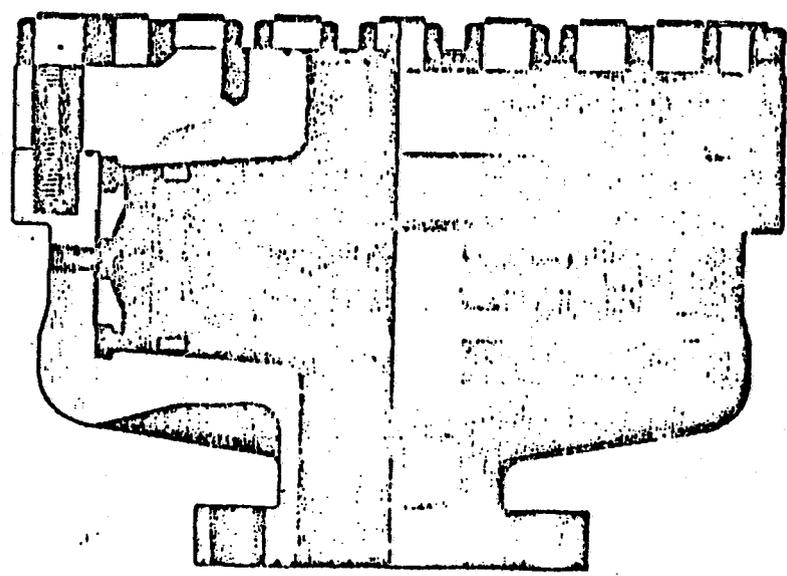
San Pedro, Calif.

### REGAN BLOWOUT PREVENTERS

The Regan Torus Blowout Preventer is used primarily on production and workover rigs for well control up to 3000 PSI working pressure

#### DESIGN FEATURES

- a. The Torus Preventer is designed for minimum height to facilitate its use with production and workover rigs.
- b. The rubber packer will conform to any object in the well bore. Sealing ability is not affected by minor damage to the inner bore.
- c. The packer will seal an open hole at full working pressure.
- d. The dual packer design increases the reliability of the preventer since the outer rubber is never exposed to the well bore. Under ordinary service, the outer packer is rarely replaced.

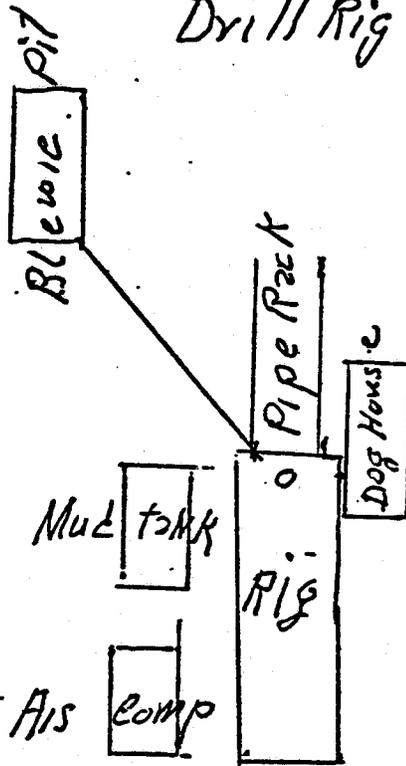


TORUS BLOWOUT PREVENTER  
PATENTED

*Diagram for 3000 psi stack  
 adapter will use 6000 psi stack  
 of same design. I O.K'ed  
 this on 4/26/89  
 K. J. Johnson*

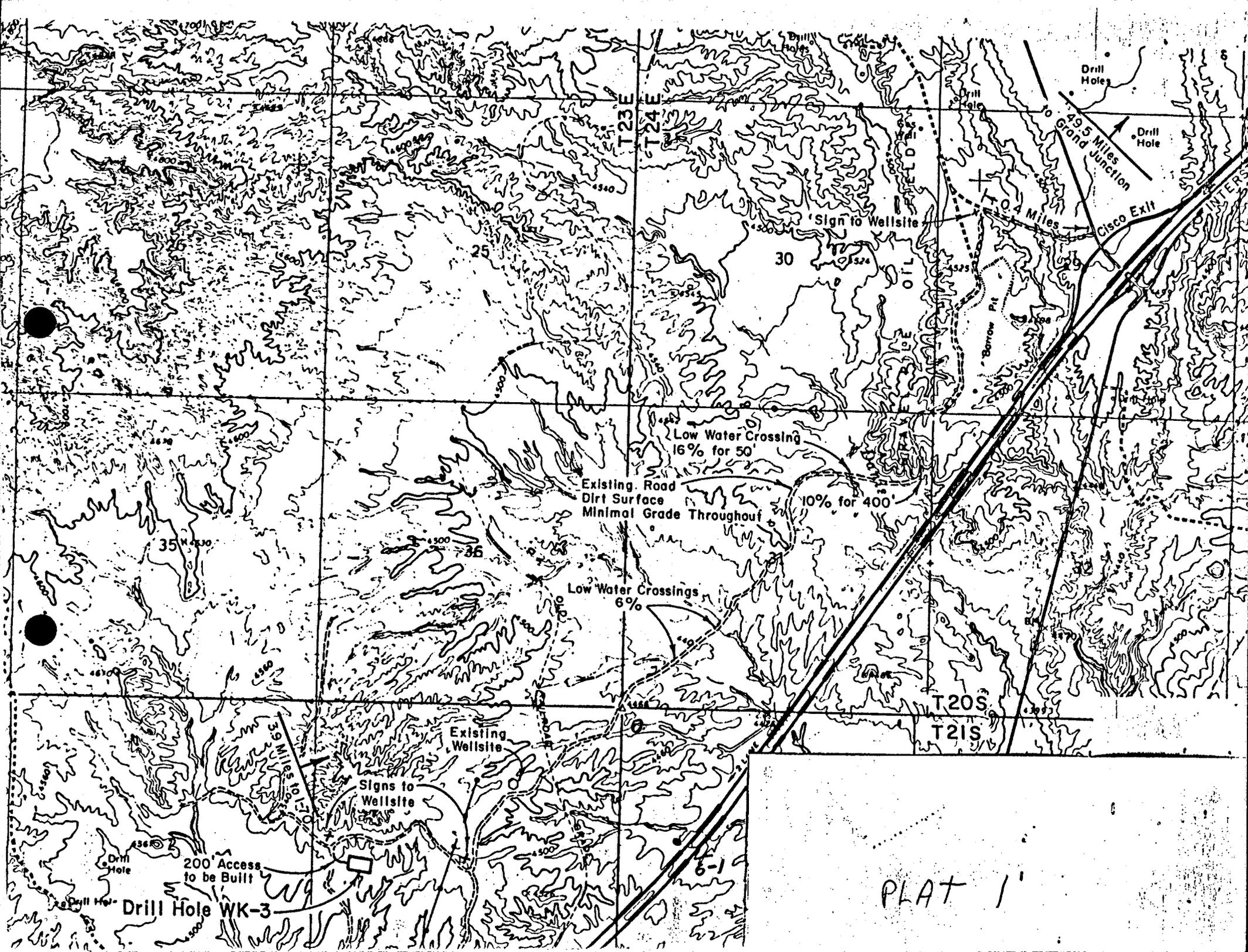
West  
↑

# Drill Rig Layout



North

Fed 6-4



Drill Holes  
Drill Hole

49.5 Miles  
Grand Junction  
Cisco Exit

0.4 Miles

Borrow Pit

Sign to Wellsite

Low Water Crossing  
16% for 50'

Existing Road  
Dirt Surface  
Minimal Grade Throughout

10% for 400'

Low Water Crossings  
6%

Existing Wellsite

Signs to Wellsite

200' Access  
to be Built

Drill Hole WK-3

T23E

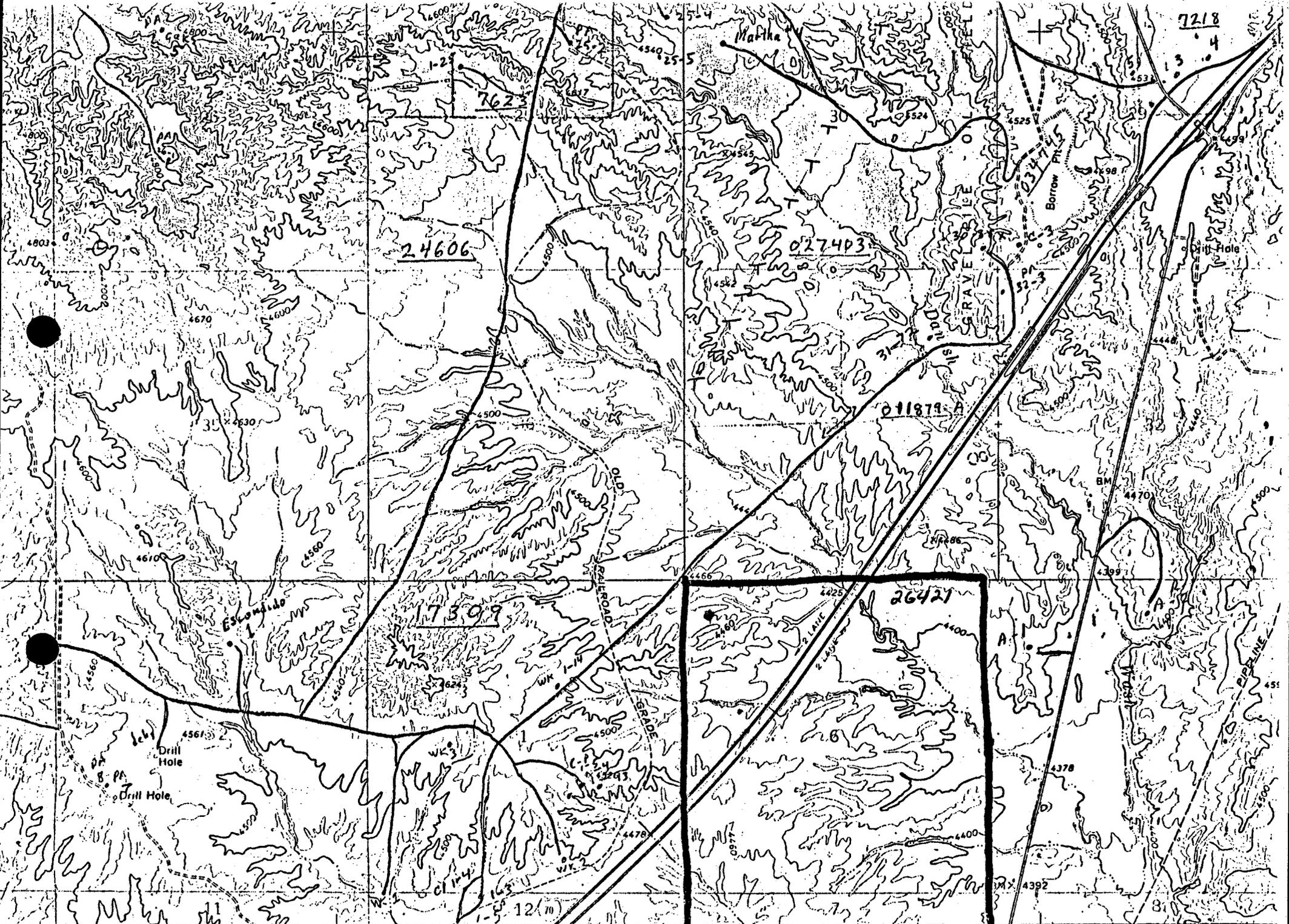
T24E

T20S

T21S

PLAT 1





261000 FEET 1644 20' THOMPSON 24 MI. GREEN RIVER 50 MI. R. 28 E. CISCO 162500 R. 24 E. 1647 CISCO 162500 17'30" 1649

SCALE 1:24000

PLAT 5A

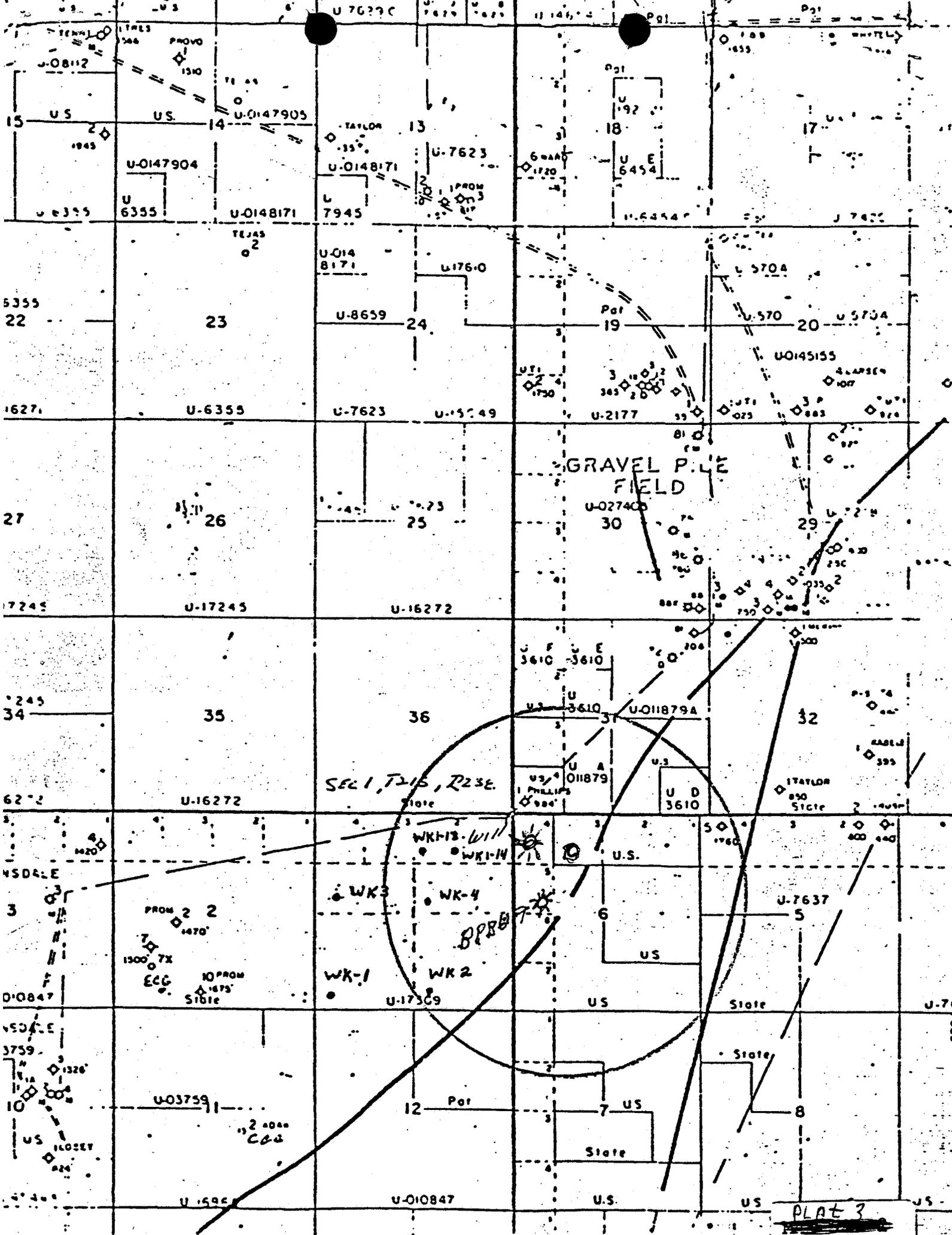


PLATE 3

OPERATOR Walter Broadhead (N11307) DATE 5-18-90

WELL NAME Federal 6-4

SEC NENW 6 T 21S R 24E COUNTY Grand

43-019-31302  
API NUMBER

Federal (1)  
TYPE OF LEASE

CHECK OFF:

PLAT. *80% Broadhead  
20% G. Ann Reed*  
 LEASE

BOND  
 FIELD

NEAREST WELL  
 POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well ok under Cause 102-16B  
Need Water Permit  
Notice mailed 5-30-90 / Published

APPROVAL LETTER:

SPACING:  R615-2-3 N/A  R615-3-2  
UNIT  
 102-16B 11-15-79  R615-3-3  
CAUSE NO. & DATE

STIPULATIONS:

1. Water Permit



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangarter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

July 3, 1990

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

Gentlemen:

Re: Federal 6-4 - NE NW Sec. 6, T. 21S, R. 24E - Grand County, Utah  
1263' FNL, 1779' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 102-16B dated November 15, 1979 subject to the following stipulation:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

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

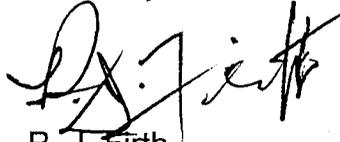
1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Walter Broadhead  
Federal 6-4  
July 3, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31302.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
J. L. Thompson  
WE14/1-10

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
JUL 30 1990

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.  
U-26421

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Broadhead

9. WELL NO.  
Fed. 6-4

10. FIELD AND POOL, OR WILDCAT  
Greater Cisco Area

11. SEC., T., R., M., OR BLK.  
AND SURVEY OR AREA  
Sec. 6 T21S. R24E.

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
Walter D. Broadhead

3. ADDRESS OF OPERATOR  
1645 North 7th St. Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*)  
 At surface 1263 FNL 1779 FWL  
 At proposed prod. zone

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

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

16. NO. OF ACRES IN LEASE  
1,975.40

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  
1,300 ft.

20. ROTARY OR CABLE TOOLS  
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
4429 gr.

22. APPROX. DATE WORK WILL START\*  
5-20-1990

43-019-21302

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
9-3/4" surf.	7-5/8"	20 lb	150'	circulate to surface
6-1/4" surf.		10.5 lb.		35 SX

OIL AND GAS	
DFN	RJF
JFB	GH
DIS	SLS
1	MICROFILM ✓
2	FLE

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 4-7-1990

(This space for Federal or State office use)

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

APPROVED BY William C. Stringer TITLE Assistant District Manager for Minerals DATE JUL 25 1990

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

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

\*See Instructions On Reverse Side

GLO BC  
(1931)

N89°57'W (BLM)

N0°07'E (BLM)

S54°33'E  
2180'

T263'

LOT  
3

1779'

BLM BC  
(1964)

SEC. 6

T21S R24E

SLM



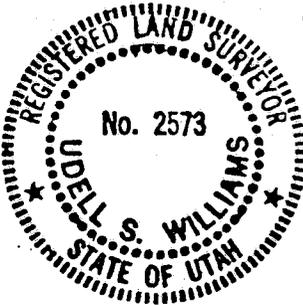
SCALE: 1" = 1000'

FEDERAL NO. 6-4

Located 1263 feet from the North line and 1779 feet from the West line of Section 6, T21S, R24E, SLM.

Elev. 4429

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 RLS No. 2573



**UDELL S. WILLIAMS**  
751 Rood Avenue  
Grand Junction, Colorado 81501

PLAT OF  
PROPOSED LOCATION  
**FEDERAL NO. 6-4**  
LOT 3 SECTION 6  
T21S, R24E, SLM

SURVEYED BY: USW DATE: 4/6/98  
DRAWN BY: USW DATE: 4/6/98

Walter D. Broadhead  
Well No. Broadhead Fed. 6-4  
NENW Sec. 6, T. 21 S., R. 24 E.  
Grand County, Utah  
U-26421

CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be advised that Walter D. Broadhead is considered to be the operator of the above well and is responsible under the terms and conditions of the lease for the operations conducted on the leased lands.

Bond coverage for this well is provided by BLM Bond UT0646 (Principal - Principal - Joanne Reed; CoPrincipal - Walter D. Broadhead) via surety consent as provided for in 43 CFR 3104.1

This office will hold the aforementioned operator and bond liable until the provisions of 43 CFR 3106.7-2 continuing responsibility are met.

A. DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, Onshore Oil and Gas Order No. 2 and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions and the approved plan will be made available to the field representative to insure compliance.

1. Requirements under Onshore Order No. 2 for 2000 lb., BOPE shall be used for drilling this well.

B. SURFACE USE PROGRAM

Immediately upon completion of drilling, the location and surrounding areas will be cleared of all remaining debris, materials, trash, and junk not required for production.

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to appropriate rental, or other financial obligation determined by the authorized officer.

- 2000 psi BOP & BOPE:

Annular preventer, or double rams, or two rams with one being blind and one being a pipe ram

Kill line (2 inch minimum)

1 kill line valve (2 inch minimum)

1 choke line valve

2 chokes

Upper kelly cock valve with handle available

Safety valve and subs to fit all drill strings in use

Pressure gauge on choke manifold

2 inch minimum choke line

Fill-up line above the uppermost preventer

- If repair or replacement of the BOPE is required after testing, this work shall be performed prior to drilling out the casing shoe.

- When the BOPE cannot function to secure the hole, the hole shall be secured using cement, retrievable packer or bridge plug packer, bridge plug or other acceptable approved methods to assure safe well conditions.

- Choke Manifold Equipment:

All choke lines shall be straight lines unless turns use tee blocks or are targeted with running tees, and shall be anchored to prevent whip and reduce vibration.

All valves (except chokes) in the kill line, choke manifold and choke line shall be a type that does not restrict the flow (full opening) and that allows a straight through flow.

Pressure gauges in the well control system shall be a type designed for drilling fluid service.

- 2000 psi system - Accumulator Equipment:

Accumulator shall have sufficient capacity to close all BOP's and retain 200 psi above precharge. Nitrogen bottles that meet manufacturer's specifications may be used as the backup to the required independent power source.

Accumulator precharge pressure test: This test shall be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months.

Power for the closing unit pumps shall be available to the unit at all times so that the pumps shall automatically start when the closing unit manifold pressure has decreased to a pre-set level.

Each BOP closing unit shall be equipped with sufficient number and sizes of pumps so that, with the accumulator system isolated from service, the pumps shall be capable of opening the hydraulically-operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and obtain a minimum of 200 psi. above specified accumulator precharge pressure.

A manual locking device (i.e., hand wheels) or automatic locking devices shall be installed on all systems of 2M or greater. A valve shall be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

- BOP Testing:

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing if BOP is not isolated from casing. Pressure tests on ram type preventers shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed off of pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10 percent in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test of BOP stack.

Annular BOP pressure tests shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above tests shall be performed:

- \*\*When initially installed;
- \*\*Whenever any seal subject to test pressure is broken;
- \*\*Following related repairs; and
- \*\*At 30 day intervals.

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s), the check valve shall be held open or the ball removed.

Pipe and blind rams shall be activated each trip, however this function need not be performed more than once a day

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

Pressure tests shall apply to all related well control equipment.

All of the above described tests and/or drills shall be recorded in the drilling log.

- Casing and Cementing:

All waiting on cement times shall be adequate to achieve a minimum of 500 psi compressive strength at the casing shoe prior to drilling out.

All casing, except the conductor casing, shall be new or reconditioned and tested used casing that meets or exceeds API standards for new casing.

The surface casing shall be cemented back to surface either during the primary cement job or by remedial cementing.

All of the above described tests shall be recorded in the drilling log.

All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

Surface casing shall have centralizers on at least the bottom three joints depending on the severity of hole inclination.

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable preflush fluid, inner string cement method., etc. shall be utilized to help isolate the cement from contamination by the mud fluid being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi/ft. of casing string length or 1500 psi, whichever is greater, but not to exceed 70 percent of the minimum internal yield. If pressure declines more than 10 percent in 30 minutes, corrective action shall be taken.

- Mud Program Requirements:

The characteristics, use and testing of drilling mud and the implementation of related drilling procedures shall be designed to prevent the loss of well control. Sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring well control.

- Record slow pump speed on daily drilling report after mudding up.
- Visual mud monitoring equipment shall be in place to detect volume changes indicating loss or gain of circulating fluid volume.
- A mud test shall be performed every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.
- All flare systems shall be designed to gather and burn all gas. The flare line(s) discharge shall be located not less than 100 feet from the well head, having straight lines unless turns are targeted with running tees, and shall be positioned downwind of the prevailing wind direction and shall be anchored. The flare system shall have an effective method for ignition. Where non-combustible gas is likely or expected to be vented, the system shall be provided supplemental fuel for ignition and to maintain a continuous flare.

- Drill Stem Testing Requirements:

Initial opening of drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the authorized officer. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the authorized officer. Closed chamber DSTs may be accomplished day or night.

- A DST that flows to the surface with evidence of hydrocarbons shall be either reversed out of the testing string under controlled surface conditions, or displaced into the formation prior to pulling the test tool. This would involve providing some means for reverse circulation.
- Separation equipment required for the anticipated recovery shall be properly installed before a test starts.
- All engines within 100 feet of the wellbore that are required to "run" during the test shall have spark arresters or water cooled exhausts.

- Special Drilling Operations:

In addition to the equipment already specified elsewhere in Onshore Order No. 2 , the following equipment shall be in place and operational during air/gas drilling:

- Properly lubricated and maintained rotating head;
- Spark arresters on engines or water cooled exhaust;
- Blooie line discharge 100 feet from well bore and securely anchored;
- Straight run on blooie line unless otherwise approved;
- Deduster equipment;
- All cuttings and circulating medium shall be directed into a reserve or blooie pit;
- Float valve above bit;
- Automatic igniter or continuous pilot light on the blooie line;
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore;
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits.

TABLE 1

NOTIFICATIONS

Notify Jeff Robbins of the Grand Resource Area, at  
(801) 259-8193 for the following:

- 2 days prior to commencement of dirt work, construction or reclamation;
- 1 day prior to spudding;
- 1 day prior to running and cementing surface casing;
- 1 day prior to pressure testing of surface casing.

Notify the Moab District Office, Branch of Fluid Minerals at (801) 259-6111 for the following:

No well abandonment operations will be commenced without the prior approval of the Assistant District Manager, Mineral Resources. In the case of newly drilled dry holes, and in emergency situations, verbal approval can be obtained by calling the following individuals, in the order listed:

Dale Manchester, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-6239
Eric Jones, Petroleum Engineer	Office Phone: (801) 259-6111
	Home Phone: (801) 259-2214

If unable to reach the above individuals including weekends, holidays, or after hours, please call the following:

Lynn Jackson, Chief, Branch of Fluid Minerals

Office Phone: (801) 259-6111  
Home Phone: (801) 259-7990

24 HOURS ADVANCE NOTICE IS REQUIRED FOR ALL ABANDONMENTS.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
OIL AND GAS INSPECTION RECORD

OPERATOR Broadhead, Walter LEASE Fed  
WELL NO. Fed 6-4 API 43-019-31302  
SEC. 6 T. 21s R. 24e CONTRACTOR \_\_\_\_\_  
COUNTY Grand FIELD Greater Basin

DRILLING/COMPLETION/WORKOVER:

APD  WELL SIGN  HOUSEKEEPING  BOPE  
 SAFETY  POLL. CONTROL  SURFACE USE  PITS  
 OPERATIONS  OTHER

SHUT-IN \_\_\_ / TA \_\_\_:

WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  SAFETY  
 OTHER

ABANDONED:

MARKER  HOUSEKEEPING  REHAB.  OTHER

PRODUCTION:

WELL SIGN  HOUSEKEEPING  EQUIPMENT\*  FACILITIES\*  
 METERING\*  POLL. CONTROL  PITS  DISPOSAL  
 SECURITY  SAFETY  OTHER

GAS DISPOSITION:

VENTED/FLARED  SOLD  LEASE USE

LEGEND: Y - YES OR SATISFACTORY  
N - NO OR UNSATISFACTORY  
NA - NOT APPLICABLE

\*FACILITIES INSPECTED: loc. (staked)

DRL  
REMARKS: Just a location, no activity yet.

ACTION: \_\_\_\_\_

INSPECTOR: [Signature] DATE: 1/29/91  
IN36/1

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. LEASE DESIGNATION AND SERIAL NO.

U-26421

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

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

Walter Broadhead

8. FARM OR LEASE NAME

Broadhead

3. ADDRESS OF OPERATOR

1645 N. 787. Grand Junction Co. 81501

9. WELL NO.

Fed. 6-4

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

10. FIELD AND POOL, OR WILDCAT

Greater Cisco Area

11. SEC., T., R., M., OR BLK. AND SUBVY OR ARRA

Sec. 6 T21S-24E

14. PERMIT NO.

43-019-313.02

15. ELEVATIONS (Show whether OF, RT, OR, etc.)

12. COUNTY OR PARISH

Grand

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

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other) \_\_\_\_\_

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

(Other) Extending Drilling Permit

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.)\*

Asking extending Drilling Permit for one year

RECEIVED

JUL 22 1991

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

DATE: \_\_\_\_\_  
BY: \_\_\_\_\_

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

SIGNED Walter D Broadhead TITLE operator

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

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_ DATE: DATE 31-91

BY: JM Matthews

3162 (U-065)  
(U-26421)

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

JAN - 3 1992

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

Re: Rescinding Application for Permit to Drill  
Well No. Broadhead Federal 6-4 43-019-31302  
NENW Sec. 6, T. 21 S., R. 24 E.  
Grand County, Utah  
Lease U-26421

Gentlemen:

The Application for Permit to Drill the referenced well was approved on July 25, 1990. Since that date, no known activity has transpired.

This approval was valid for a period of one year from the date of approval. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

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

Sincerely yours,

*(S) Lynn Jackson*

Assistant District Manager  
Mineral Resources

Enclosure:  
Application for Permit to Drill

Acting

cc: Grand Resource Area (w/o encl.)  
State of Utah, Division of Oil, Gas and Mining (w/o encl.) ✓

MRamstetter:mr:1/3/92

RECEIVED

JAN 06 1992

DIVISION OF  
OIL GAS & MINING



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

January 13, 1992

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

Dear Mr. Broadhead:

Re: Well No. Federal 6-4, Sec. 6, T. 21S, R. 24E, Grand County, Utah,  
API No. 43-019-31302

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

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

Sincerely,

Don Staley  
Administrative Supervisor  
Oil and Gas

DME/lde

cc: R.J. Firth  
Bureau of Land Management - Moab

Well file

WOI196

BEFORE THE BOARD OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
IN AND FOR THE STATE OF UTAH

-----  
IN THE MATTER OF ADOPTING AMEND- )  
MENTS TO FIELD RULE 1-2 AND 2-2, )  
CAUSE NO. 2, NO. 102-5, AND NO. )  
102-16, WHICH RULES ESTABLISHED )  
WILDCAT WELL SPACING FOR THE )  
SEIBER-CISCO NOSE AREA, GRAND )  
COUNTY, UTAH )

FINDINGS AND ORDER

CAUSE NO. 102-16B

-----  
This cause came on for hearing before the Board of Oil, Gas and Mining at 10:00 a.m. on Wednesday, September 26, 1979, in the executive Conference Room, Holiday Inn, 1659 West North Temple, Salt Lake City, Utah.

The following Board Members were present:

Charles R. Henderson, Chairman  
John L. Bell, Member  
Edward T. Beck, Member  
Thadis W. Box, Member  
Constance K. Lundberg, Member  
C. Ray Juvelin, Member  
E. Steele McIntyre, Member

Appearances were made as follows:

James Bowers  
Damon Gilland  
Dean Christensen  
Don Quigley

NOW, THEREFORE, the Board having heard the testimony of the witnesses and having considered the evidence and being advised in the premises, now makes and orders the following:

FINDINGS

1. That due and regular notice of the time, place and purpose of the hearing was given to all interested parties in the form and manner and within the time required by law.
2. That the Board has jurisdiction over the matter covered by said application and over all parties interested therein and has jurisdiction to make and promulgate the order hereinafter set forth.
3. That the Dakota, Morrison and Cedar Mountain Formations underly the area under consideration.
4. That the sands of the Dakota, Morrison and Cedar Mountain Formations are lenticular in nature.

102-16B

5. That most, if not all, of the operators in the area are of the opinion that it is not economically feasible to drill wells on the 40 acre or 640 acre wildcat spacing pattern as provided for in Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

6. That there is unanimity among the operators with respect to the suggested amendments to Field Rule 2-2.

IT IS THEREFORE ORDERED:

ORDER

1. That the Board's order in Cause No. 2, Cause No. 102-5, and Cause No. 102-16 is hereby revised as follows:

Field Rule 1-2 reads:

The spacing of all wells drilled for oil or gas which are within the following described area--to wit:

Township 18 South, Range 25 East  
Sec: 25 through 36

Township 18 South, Range 26 East  
Sec: 29 through 32

Township 19 South, Range 23 East  
Sec: 19 through 36

Township 19 South, Range 24 East  
Sec: All

Township 19 South, Range 25 East  
Sec: All

Township 19 South, Range 26 East  
Sec: 5 through 8

Township 20 South, Range 21 East  
Sec: All

Township 20 South, Range 22 East  
Sec: All

Township 20 South, Range 23 East  
Sec: All

Township 20 South, Range 24 East  
Sec: All

Township 20 South, Range 25 East  
Sec: All

Township 21 South, Range 22 East  
Sec: 1 through 12

Township 21 South, Range 23 East  
Sec: All

Township 21 South, Range 24 East  
Sec: All

and are not within a pool for which drilling units have been established shall be governed by Field Rule 2-2.

✓ Field Rule 2-2 is amended to read:

"All wells drilled for the discovery of oil and/or gas which are not within a pool, reservoir, or field for which drilling units have been established or for which a petition for establishment of a drilling unit has been filed, shall be located not less than 500 feet from any property or lease line and not less than 200 feet from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location, and not less than 400 feet from any oil well, or less than 1320 feet from any gas well, unless otherwise specifically authorized by the Board after notice of hearing.

Whenever an exception is granted by the Board, the Board may, at any time thereafter, take such action as will offset any advantage which the person securing the exception may obtain over the other producers in the area covered by Field Rule 1-2."

✓ All previously drilled wells and all wells drilled in the future which:

- a. are less than 660 feet from the lease or property line and are classified as gas wells or
- b. are less than 200 feet from the lease or property line and are classified as oil wells

may be offset, the same distance from the property line, or a drilling unit may be established for said well if the Board of Oil, Gas and Mining, finds, after notice and a hearing that correlative rights are being violated.

\* All notices of Intention of Drill must be accompanied by a plat on which is outlined the acreage covered by the lease on which the well is to be drilled.

✓ Rule 1-2 and Rule 2-2 are only applicable to wells drilled or to be drilled to a depth of 3500 feet or less.

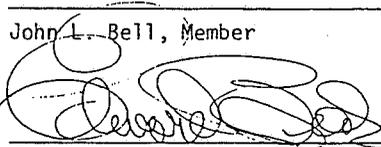
2. That the board retains continuing jurisdiction over all matters covered by this order and particularly to make further orders as may be necessary under conditions and circumstances developed in the future.

ENTERED this 15th day of November, 1979.

STATE OF UTAH  
BOARD OF OIL, GAS AND MINING

  
Charles R. Henderson, Chairman

\_\_\_\_\_  
John L. Bell, Member

  
Edward T. Beck, Member

143 SOUTH MAIN ST.  
P.O. BOX 45838  
SALT LAKE CITY, UTAH 84145  
FED. TAX I.D. # 87-0217663

**Newspaper Agency Corporation**  
*The Salt Lake Tribune* (NA) DESERET NEWS

CUSTOMER'S  
COPY

**LEGAL ADVERTISING INVOICE**

CUSTOMER NAME AND ADDRESS	ACCOUNT NUMBER	BILLING DATE
DIV. OF OIL, GAS/MINING ATTN: BARBARA L. DUMAS 355 W NO TEMPLE, #350 SALT LAKE CITY, UT 84180	LE-5385340	06/08/90
		FOR BILLING INFORMATION CALL (801) 237-2822

**AFFIDAVIT OF PUBLICATION**

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF NOTICE OF INTENTION OF AGENCY ACTION REFERENCE FOR DIV. OF OIL, GAS/MINING WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON JUN 08 1990

SIGNATURE *G. J. Anderson*  
DATE 06/08/90



**NOTARY PUBLIC**  
**G. J. ANDERSON**  
143 South Main  
Salt Lake City Utah 84111  
My Commission Expires  
November 15 1993  
**STATE OF UTAH**

ACCOUNT NAME			TELEPHONE
DIV. OF OIL, GAS/MINING			801-538-5340
SCHEDULE			AD NUMBER
JUN 08 1990			65820100
CUST. REF. NO.	CAPTION		MISC. CHARGES
REFERENCE #31302	NOTICE OF INTENTION OF AGENCY ACTION REFERENCE		.00
SIZE	TIMES	RATE	AD CHARGE
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355 W NO TEMPLE, #350  
SALT LAKE CITY, UT 84180

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**NOTICE OF INTENTION OF AGENCY ACTION**

**REFERENCE NO. 31302**

**BEFORE THE DIVISION OF OIL, GAS AND MINING**

**DEPARTMENT OF NATURAL RESOURCES, STATE OF UTAH**

**IN THE MATTER OF THE APPLICATION OF WALTER D. BROADHEAD FOR ADMINISTRATIVE APPROVAL OF AN EXCEPTION TO THE LOCATING AND SITING REQUIREMENTS OF THE ORDER IN CAUSE NO. 102-16B FOR THE PROPOSED FEDERAL 6-4 WELL LOCATED IN SECTION 6, TOWNSHIP 21 SOUTH, RANGE 24 EAST, GRAND COUNTY, UTAH**

**THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.**

Notice is hereby given that the Division is commencing an informal adjudicative proceeding to consider the application of Walter D. Broadhead for administrative approval of an exception to the locating and siting requirements of the Order in Cause No. 102-16B dated November 15, 1979, for the Federal 6-4 well located in Section 6, Township 21 South, Range 24 East, Grand County, Utah. The proceeding will be conducted in accordance with the provisions of Rule R615-10, Administrative Procedures; Rules R615-3-3, Exception to Location and Siting of Wells; and with consideration of the Order in Cause No. 102-16B for the development of the Dakota, Morrison and Cedar Mountain formations. The order prescribes that all wells shall be located not less than 500 feet from any property or lease line and not less than 200 feet from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location, and not less than 400 feet from any oil well, or less than 1320 feet from any gas well, unless otherwise specifically authorized by the Board after notice of hearing.

The applicant intends to drill the Federal 6-4 well to a proposed depth of 1,300 feet to test the Salt Wash formation. The well location, 1263 feet from the north line and 1779 feet from the west line of Section 6, Township 21 South, Range 24 East, Grand County, does not comply with the locating and siting requirements of the Order in Cause No. 102-16B with regard to a well being located 200 feet from the boundary of any legal subdivision comprising a governmental quarter-quarter section or equivalent lot or lots of comparable size and location.

Objections, if any, to the approval of the proposed exception, should be filed with the undersigned and state with particularly the reasons for the objection. In the absence of a written objection within fifteen days after publication of this notice from any persons whose interests would be affected, the Division will issue an administrative approval of the requested exception.

DATED this 25th day of May, 1990.

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

/s/ R. J. Firth

Associate Director, Oil and Gas

65820100



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

May 25, 1990

The Times Independent  
P. O. Box 129  
Moab, Utah 84532

Gentlemen:

RE: Notice of Intention of Agency Action - Reference No. 31302

Enclosed is a Notice of Intention of Agency Action.

It is requested that this notice be published ONCE ONLY, as soon as possible. Upon completion of this request, please send proof of publication and statement of cost to the Division of Oil, Gas and Mining, 355 West North Temple, Suite 350, Salt Lake City, Utah 84180-1203.

Sincerely,

A handwritten signature in cursive script that reads "Lisha Romero".

Lisha Romero  
Administrative Analyst

WE14/14  
cc: R. J. Firth  
Enclosure

Mailing List For Notice of Intention of Agency Action - Reference No. 31302

JoAnn Reed  
1645 North 7th Street  
Grand Junction, Colorado 81501

*Lisha Romero*

---

Lisha Romero  
Administrative Analyst  
May 25, 1990



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangertter

Governor

Dee C. Hansen

Executive Director

Dianne R. Nielson, Ph.D.

Division Director

355 West North Temple

3 Triad Center, Suite 350

Salt Lake City, Utah 84180-1203

801-538-5340

May 25, 1990

Newspaper Agency Corporation  
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157 Regent Street  
Salt Lake City, Utah 84110

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Sincerely,

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Lisha Romero  
Administrative Analyst

WE14/15  
cc: R. J. Firth  
Enclosure

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE APPLICATION  
OF WALTER D. BROADHEAD FOR  
ADMINISTRATIVE APPROVAL OF AN  
EXCEPTION TO THE LOCATING AND  
SITING REQUIREMENTS OF THE  
ORDER IN CAUSE NO. 102-16B FOR  
THE PROPOSED FEDERAL 6-4 WELL  
LOCATED IN SECTION 6, TOWNSHIP  
21 SOUTH, RANGE 24 EAST, GRAND  
COUNTY, UTAH

NOTICE OF INTENTION  
OF AGENCY ACTION

REFERENCE NO. 31302

---ooOoo--

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED  
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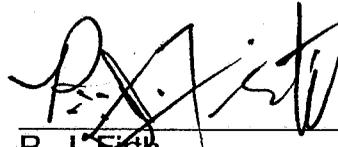
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Page 2  
NOTICE OF INTENTION  
OF AGENCY ACTION

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DATED this 25th day of May, 1990.

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING



---

R. J. Firth  
Associate Director, Oil & Gas