

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL & GAS

*File*

5. Lease Designation and Serial No.

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Tomlinson

9. Well No.

10. Pool and Reason, if any

Tomlinson Fee No. 2  
Cisco Greater Cisco Area

11. Sec., T., R., M., or Blk. and Survey or Area

12, 21S. 23E. SLM

12. County or Parrish 13. State

Grand, Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work

DRILL

DEEPEEN

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, Colorado 81501

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface

500 FNL & 500' FEL

At proposed prod. zone

500 Ft. South of north line  
500 Ft. West of East line

*NE NE*

14. Distance in miles and direction from nearest town or post office\*

Two miles north of Cisco, Utah.

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

500 Ft.

16. No. of acres in lease

160

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

1200 Ft Salt Wash

20. Rotary or cable tools

Rotary

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

4470' GR

22. Approx. date work will start\*

March 1, 1980

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
8-3/4"	7" new	171b.	100	20 SX Circulated
6-1/4"	4-1/2 new	9.5Lb.	1200	35 SX

Surface Formation: Mancos

Propose to test Dakota & Cedar Mountain Formations

SURFACE MANCOS SHALE

715' DAKOTA SANDSTONE

1140' SALT WASH

1550 ENTRADA

Pressure Control: Schematic attached showing BOP, Kill lines, check valves and pressure rating.

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING

DATE: 4-6-81

BY: *M. J. Minder*

DIVISION OF  
OIL, GAS, AND MINING

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*

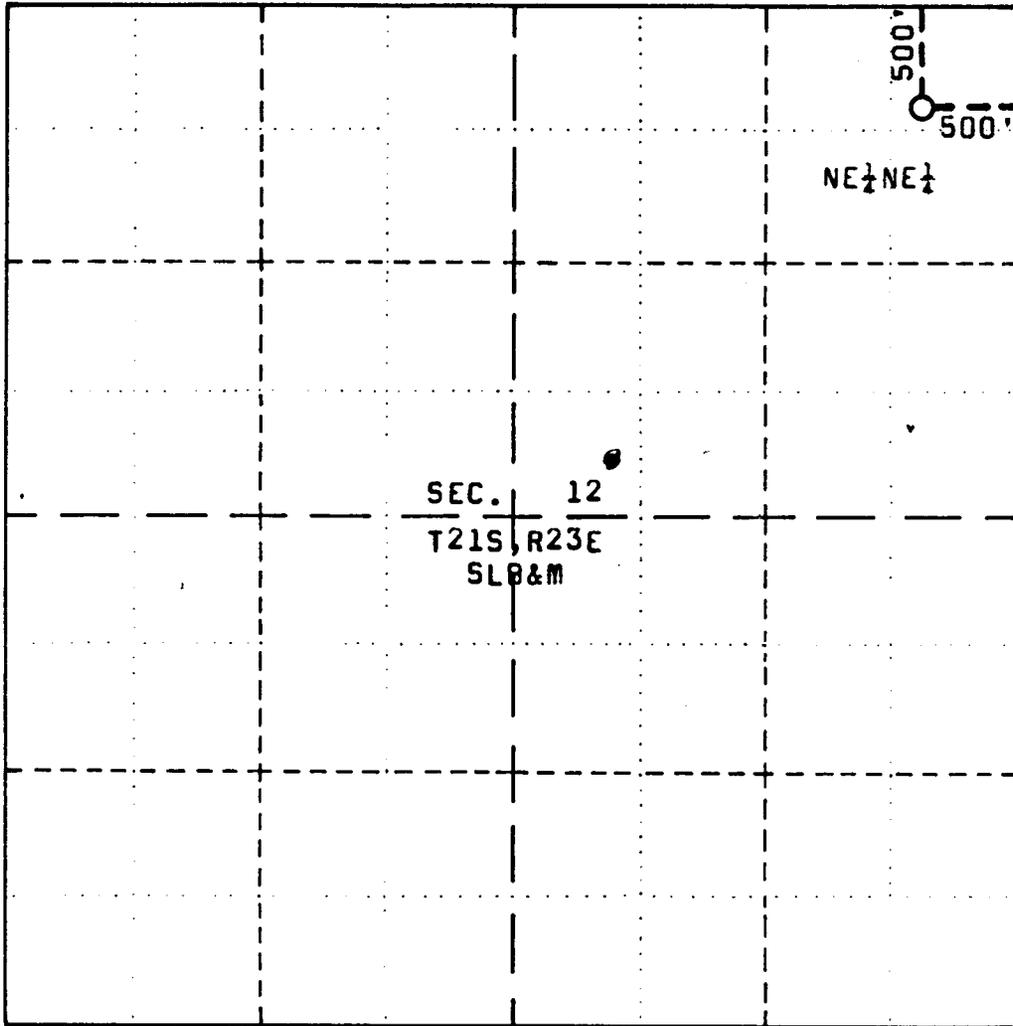
Date 2-26-1980

(This space for Federal or State office use)

Permit No. .... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:



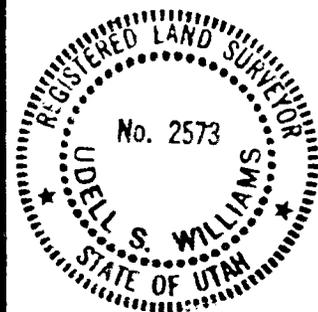
SCALE: 1" = 1000'

TOMLINSON NO. 2

Located South 500 feet from the North boundary and West 500 feet from the East boundary of Section 12, T21S, R23E, SLB&M.

Elev. 4470

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

TOMLINSON NO. 2  
NE 1/4 NE 1/4 SECTION 12  
T21S, R23E, SLB&M

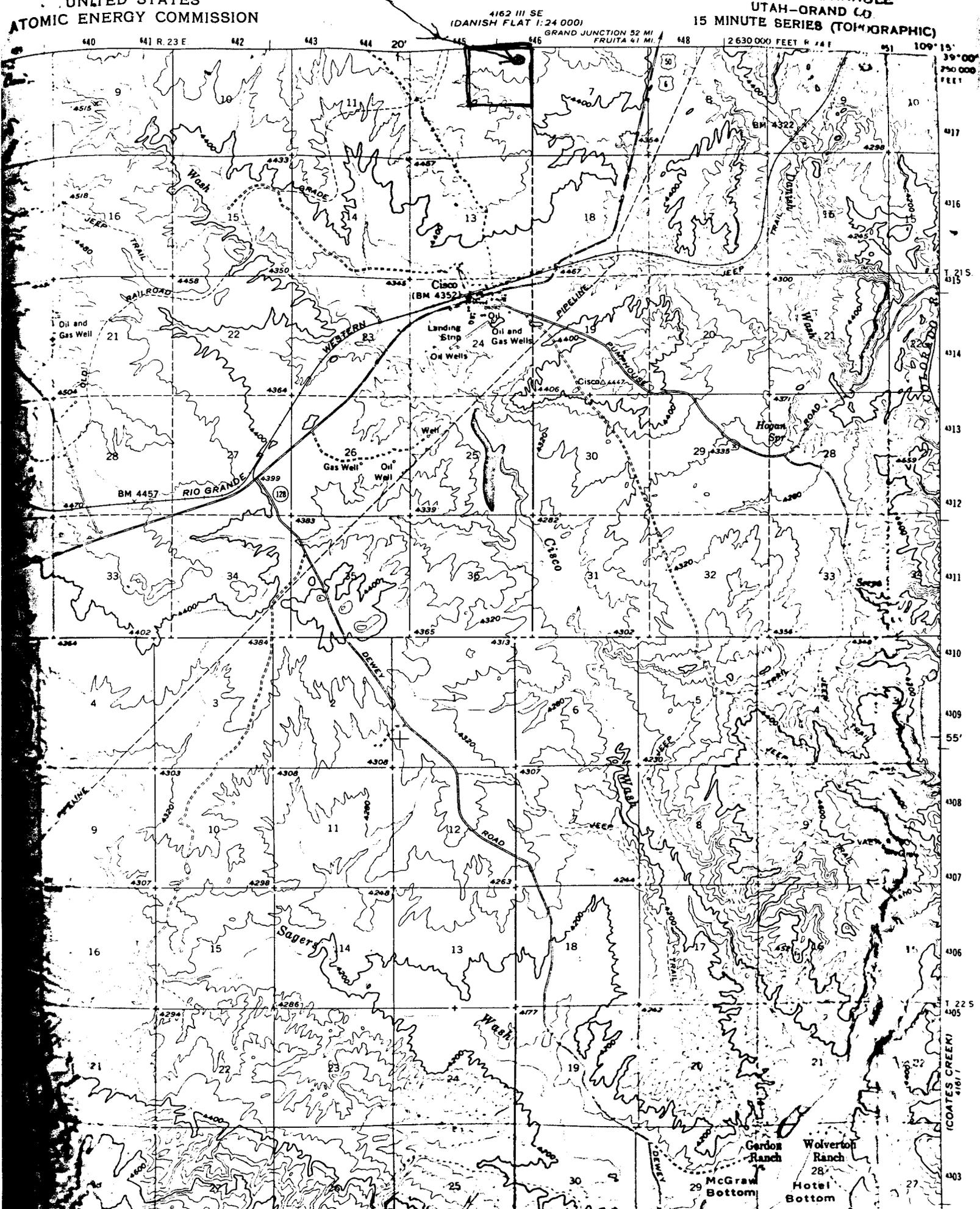
SURVEYED BY: USW DATE: 2/23/81

DRAWN BY: USW DATE: 2/23/81

*Wind site*

UNITED STATES  
ATOMIC ENERGY COMMISSION

CISCO QUADRANGLE  
UTAH-GRAND CO  
15 MINUTE SERIES (TOPOGRAPHIC)



WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Tomlison Fee No 2

Sec. 12, T21S, R23E. SLB&M

Grand County, Utah

Lease: Tomlison

PRESSURE MONITORING AND CONTROL DATA  
SEVEN POINT PLAN

1. Surface Casing: Set at ~~200'~~ 100'  
Size 7"  
Weight 17 lb.  
Length Range 2  
Grade J-55 new. Tested to 3000 psig.
2. Casing Heads:  
Series 600 - 1500 psi working pressure.
3. Production Casing:  
Size 4-1/2"  
Weight 9.5 lb.  
Length Range 3  
Grade J-50, new, tested to 3000 psig.
4. Pressure Control:  
BOP Regan Torus BOP  
Series 600 - Tested to 3000 psig.  
Rams One size fits all - even blind.  
Will use fill, kill and choke lines.
5. Auxiliary Pressure Control:
  - a. Kelly cocks.
  - b. Check valve at bit.
  - c. Monitoring equipment on mud system.
  - d. A sub on floor with a full opening valve to be stabbed into drill pipe when Kelly is out of string.
6. Anticipated Bottom Hole Pressure:  
550 psig.
7. The Type of Drilling Fluid:  
Air until gas encountered. GEL  
Mud up with ~~Polymer~~ mud with NaCl and CaCl<sub>2</sub> as weighting agent - 10.5 to 11.00 lb. per gal. as required.

WALTER BROADHEAD  
1645 N. 7th St.  
Grand Junction, Colorado 81501

Re: Well No. Tomlison Fee No 2

Sec. 12, T21S, R23E SLB&M

Grand County, Utah

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4. Location of Existing and/or Proposed Facilities:

- a) There are no tank batteries off of well locations within a one mile radius of the proposed locations. Gas gathering lines are indicated on the attached map.
- b) If production is found, storage facilities will be located on the location. If gas is discovered in commercial quantities, necessary pipelines will be applied for at that time.

Complete protective measures such as fences will be used to protect livestock and wildlife in the area.

- c) Rehabilitation of all disturbed areas no longer needed after construction is completed will be returned to smooth contour and all debris will be cleaned up. All pits will be covered and cleaned up after drill operations. Those pits required for production will be fenced.

5. Location and Type of Water Supply: Water will be acquired from the Colorado River, which is about 5 miles southwest of Cisco, Utah. Water will be transported by truck. Existing roads will be used to transport water.

No water well will be drilled on the lease.

6. Source of Construction Materials: No construction materials such as sand, gravel, stone and soil will be used other than that found in the native location.

In the event that tanks and production equipment are required, gravel will be hauled from Grand Junction, Colorado to set tanks on. This gravel will be purchased from private enterprise.

7. Methods for Hauling Waste Disposal:

- a) Cuttings - The hole will be 90% air drilled and cuttings will be blown out on the ground. These cuttings will be smoothed out and integrated into the native ground surface.
- b) Drilling Fluids - Will be contained in steel mud tanks. A dirt pit will be dug to contain excess flow out of the well during cementing and completion operations. Of course, these pits will be cleaned up and covered up.
- c) Produced Fluids such as Oil and Water - Will be properly disposed of with oil being stored in tanks and water being diverted to the pit and disposed of as required.
- d) Sewage - There will be no sewage generated by the short drilling operations.
- e) Garbage and Other Waste Material - Will be contained in 30 gallon galvanized garbage cans and hauled off the location.

SURFACE USE PLAN (con )

- f) As stated before, the entire well site area will be properly cleaned up and restored to smooth contour when the rig moves out. Only that part of the location required for production operations will be kept in use. In the event of a dry hole, the only appurtenance left at the location will be the required dry hole marker.
8. Ancillary Facilities: There will be no camps or air strips required for this drilling operation.
9. Well Site Layout: A plat on a scale of 1" = 20' is included with the application showing location and orientation of the drilling rig, mud tanks, reserve pit, pipe racks and other appurtenances to the operation. For the time being pits will be unlined as allowed by present law. The only water introduced into these pits will be fresh water used in the drilling operation.
10. Plans for Restoration of Surface: As stated before, the entire location will be restored to smooth contour. Also stated, the vegetation in this desert area is extremely sparse and it is quite doubtful that revegetation would be practical at all.

It is intended to have all locations cleaned up within 30 days after operations are concluded.

11. Other Information:

- a) The topography of these locations near Cisco, Utah is a very gentle rolling, flat characteristic. The soil is raw Mancos shale with extremely sparse vegetation. A few coyotes, prairie dogs and cottontail rabbits occupy the entire area.
- b) The only other surface use activities other than petroleum exploration in the area is in spring grazing of the sparse vegetation by cattle and sheep.
- c) The proximity of water has been described at the Colorado River which is about 5 miles southwest of Cisco, Utah. The only occupied dwellings are at Cisco, Utah, which has been located already. There will be no disturbance to archeological, historical or cultural sites by drilling the applied-for wells in the present applications. The land is under the jurisdiction of the Bureau of Land Management.

12. Operator's Representative:

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

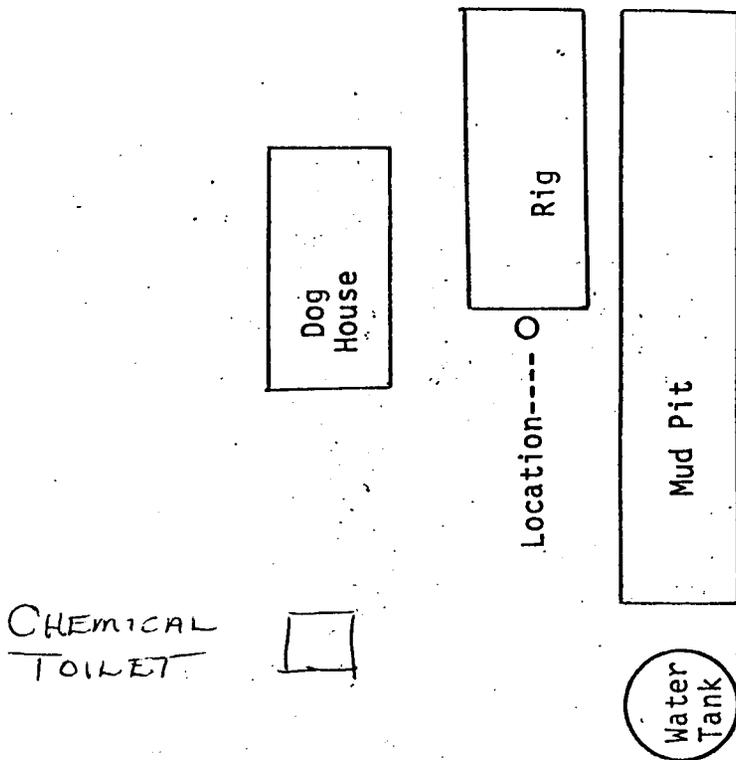
SURFACE USE PLAN (con

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that 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 Walter Broadhead in conformity with this plan and the terms and conditions under which it is approved.

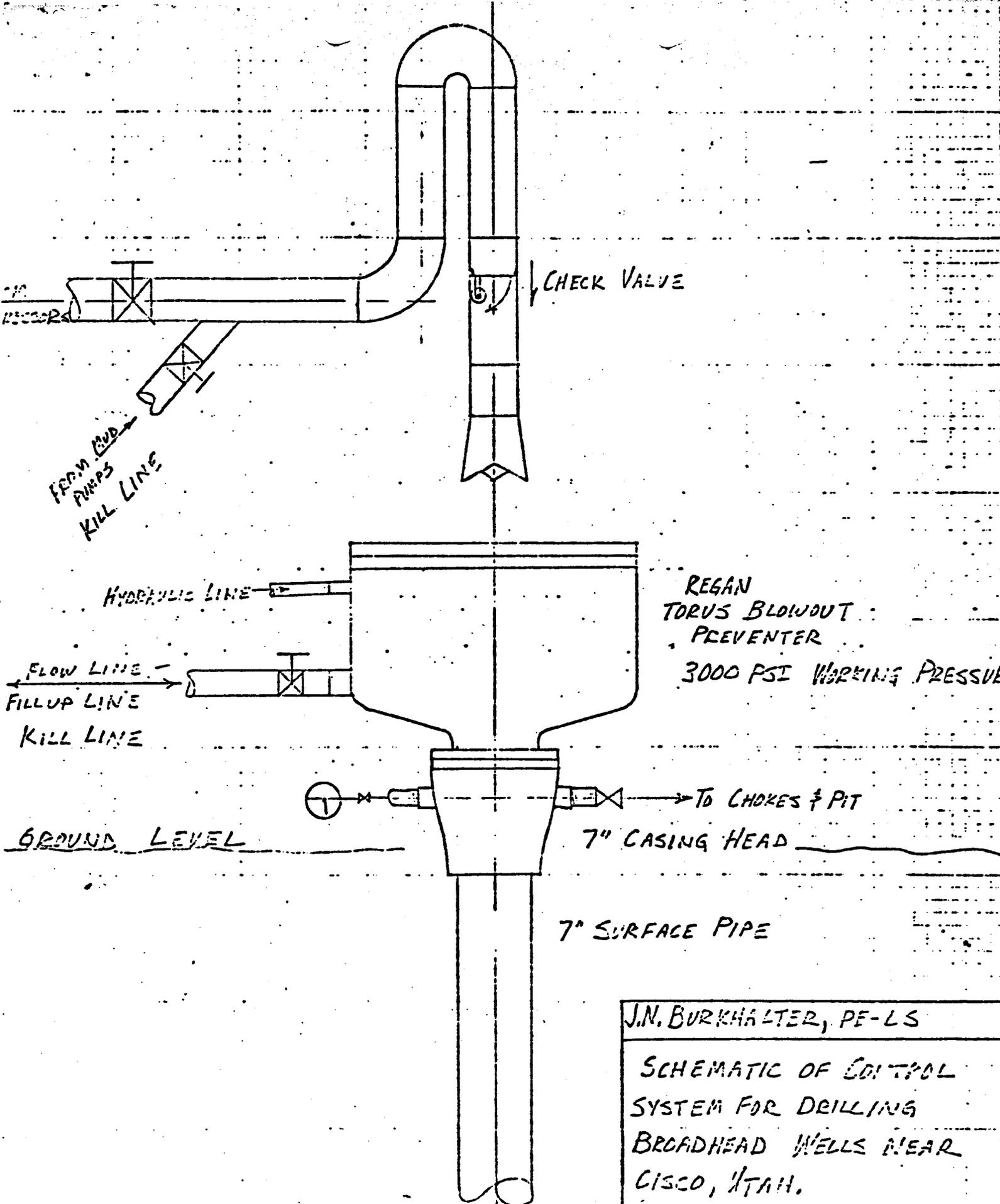
Date 2-26-1980

Walter D Broadhead  
Walter D. Broadhead  
~~Consulting Engineer~~

# WELL SITE LAYOUT



Scale 1" = 10 Feet



CHECK VALVE

FROM MUD PUMPS  
KILL LINE

HYDRAULIC LINE

FLOW LINE  
FILLUP LINE  
KILL LINE

REGAN  
TORUS BLOWOUT  
PREVENTER  
3000 PSI WORKING PRESSURE

GROUND LEVEL

TO CHOKES & PIT  
7" CASING HEAD

7" SURFACE PIPE

J.N. BURKHALTER, PE-LS  
SCHEMATIC OF CONTROL  
SYSTEM FOR DRILLING  
BROADHEAD WELLS NEAR  
CISCO, UTAH.

\*\* FILE NOTATIONS \*\*

DATE: Mar. 3, 1981  
OPERATOR: Walter D. Broadhead  
WELL NO: Tomlinson Fee #2  
Location: Sec. 12 T. 21S R. 23E County: Grand

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

API Number 43-019-30782

CHECKED BY:

Petroleum Engineer: M. J. Minder 4-6-81

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

Administrative Aide: ok on oil wells ok on gas wells;  
~~ok on lease & brdly. line~~

*ok as per order*

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. 102-16B / 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 Fee Plotted on Map

Approval Letter Written

Hot Line  P.I.

April 3, 1981

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

Re: Well No. Tomlinson Fee #2  
Sec. 12, T. 21S, R. 23E, NE NE  
Grand County, Utah

Insofar as this office is concerned, approval to drill the above referred to o/g well is hereby granted in accordance with the Order issued in Cause No. 102-16B, dated September 26, 1979.

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

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

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

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

The API number assigned to this well is 43-019-30782.

Sincerely,

DIVISION OF OIL, GAS, AND MINING



Michael T. Minder  
Petroleum Engineer

MTM/ko  
cc:

PJA

DIVISION OF OIL, GAS AND MINING

PLUGGING PROGRAM

NAME OF COMPANY: Walter Broadhead

WELL NAME: Tomlinson #2 (Fee)

SECTION 12 TOWNSHIP 21S RANGE 23E COUNTY Grand

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

TOTAL DEPTH: 1175'

CASING PROGRAM:

7", 17# @ 92' cement to surface

FORMATION TOPS:

Mancos (sh)-	surface
Dakota (ss)-	670-90'
Saltwash (ss)-	1150-75'

No shows, water, DST's or Cores

PLUGS SET AS FOLLOWS:

1. 1175-1075'
2. 740-630'
3. 120'-surface

*\* Spud 4-23-81 per Cardex  
No doc. in file.*

The interval between plugs shall be filled with a 9.2#, 50 vis. fresh water gel based mud; erect regulation dryhole marker; clean up, grade and restore the location; and notify this Division when the location is prepared for inspection.

DATE \_\_\_\_\_ SIGNED \_\_\_\_\_

cc: W. D. Broadhead

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

**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 <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole		5. LEASE DESIGNATION AND SERIAL NO.
2. NAME OF OPERATOR Walter D. Broadhead		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 1645 North 7th. St. Grand Jct., Colo...81501		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 500' west of east line 500' South of north line		8. FARM OR LEASE NAME Tomlinson
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, CR, etc.)	9. WELL NO. Tomlinson #2
		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA 12 T21S, R23E.
		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

FULL 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.)

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.)\*

Hole full of gel mud 9.3 Lb.

#1. 15SX in bottom 1075 to 1175

#2. 15SX across Dakota sand 630' to 740'

#3. 30 SX in surface 120' with regulation marker

APPROVED BY THE DIVISION  
OF OIL, GAS, AND MINING

DATE: 6-23-81

BY: *W. J. Minder*

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

SIGNED

*Walter D. Broadhead*

TITLE Operator

DATE June 20, 1981

(This space for Federal or State office use)

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

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY: