

**FILE NOTATIONS**

Entered in MID File ..... ✓  
Location Map Pinned ..... ✓  
Card Indexed ..... ✓

Checked by Chief  
Approval Letter  
Disapproval Letter .....

*[Handwritten signature]* CB-7  
12-23-74

**COMPLETION DATA:**

Date Well Completed *9/23/75*  
W..... WW..... TA.....  
W..... OS..... PA. ✓

Location Inspected .....  
Bond released  
State or Fee Land .....

**LOGS FILED**

Driller's Log... ✓ .....  
Geologic Log (GR) .....  
..... I..... Soil Test..... GR-N..... Micro.....  
GC Sonic GR..... Micro..... Sonic.....  
CBLog..... CULog..... Others.....

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL  
*1-26421*

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
*Walter D. Broadhead*

9. WELL NO.  
*Fed Broadhead*

10. FIELD AND POOL, OR WILDCAT  
*Wildcat*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
*Sec 7 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  *or* GAS WELL       OTHER       SINGLE ZONE       MULTIPLE ZONE

2. NAME OF OPERATOR  
*Walter D. Broadhead*

3. ADDRESS OF OPERATOR  
*1645 N. 7th St. Grand Junction Colorado*

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
 At surface *Located SW<sup>1</sup>NE<sup>1</sup>SE<sup>1</sup> of Sec 7, T.21S. R24E. 990 ft. West of East Line 1550 N. of South Line*  
 At proposed prod. zone *SWNESE*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
*2 Mile North and East of Cisco Utah*

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) *330 ft*

16. NO. OF ACRES IN LEASE *1974.40*

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. *2 Mile*

19. PROPOSED DEPTH *900 ft*

21. ELEVATIONS (Show whether DF, RT, GR, etc.) *4398*

22. APPROX. DATE WORK WILL START *Feb 1, 1975*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Surface 9"	7"	(used)	90'	Cement back to Part
6 3/4 in	4 1/2			

*will use Col Mud 90#/gal*  
*use Torus Blowout Preventer w/ Blind & Pipe rams (6000)*  
*Max anticipated BHP about 400 psi*  
*DP Float @ Bit,*

*OK*  
*1025*  
*[Signature]*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new prod 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.

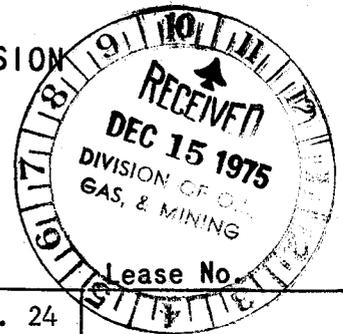
24. SIGNED *Walter D. Broadhead* TITLE *operator* DATE *Dec 13, 1974*

(This space for Federal or State office use)  
 PERMIT NO. *43-019-30226* APPROVAL DATE

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

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH  
 TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH



Well	Location	Lease No.
Walter D. Broadhead #1 Federal	1350' FSL, 328' FWL, sec. 9, T. 20 S., R. 24 E., SLM, Grand Co., Utah. Gr.El. 4628'	U-0147497

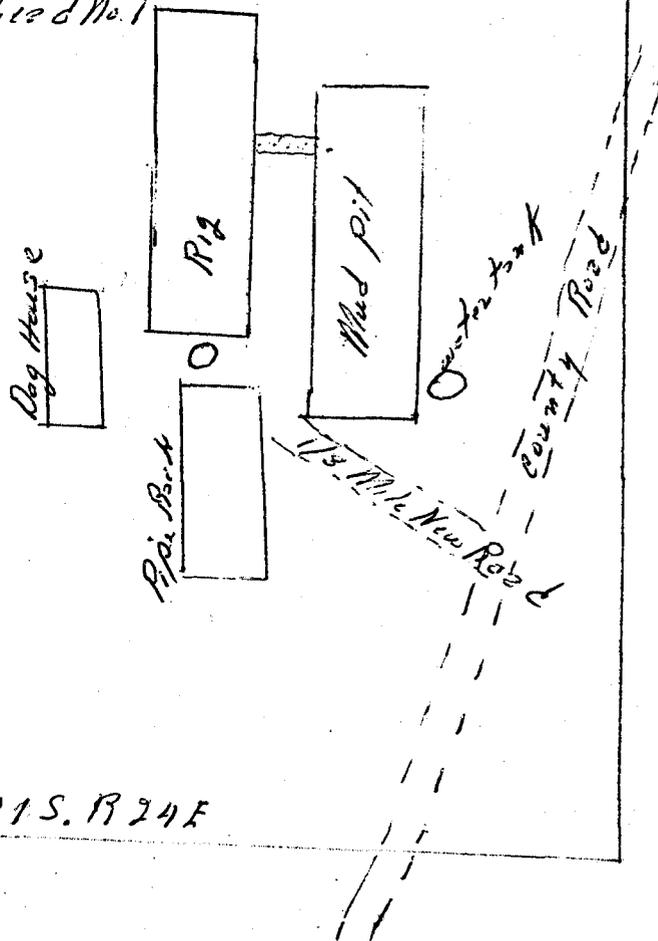
1. **Stratigraphy and Potential Oil and Gas Horizons.** The surface rocks are Mancos. Leon Marshall #1 (Gr.El. 4602'), in the same section, reported the following tops: Dakota-1170', Brushy Basin-1288', Morrison-1404'. All sands are lenticular and hydrocarbon accumulation will depend on permeabilities and sand development.
2. **Fresh Water Sands.** WRD reported in sec. 29 of this township: "Usable water, fresh or slightly saline, may occur in sandstone units of the Mancos Shale, Dakota Sandstone, and the conglomerate member of the Cedar Mountain Shale. Moderately saline water occurs in the sandstones of the Morrison Formation in this area."
3. **Other Mineral Bearing Formations.** (Coal, Oil Shale, Potash, Etc.) None.
4. **Possible Lost Circulation Zones.** Lenticular sand units found in formations of item 1.
5. **Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.** Protect any fresh water aquifers encountered.
6. **Possible Abnormal Pressure Zones and Temperature Gradients.** Unknown.
7. **Competency of Reds at Proposed Casing Setting Points.** Weathered shale may cave.
8. **Additional Logs or Samples Needed.** None.
9. **References and Remarks** Within 2 mile radius of KGS.  
*State Oil & Gas*

**COPY RETAINED DISTRICT OFFICE**

Date: December 11, 1975

Signed: *Ronald E. Gunnerson*

Fed Broadhead No. 1



Sec 7, T21S, R24E

No wells within 2-miles of this proposed location.

There will be no camps built.

It's flat land - there will be 1/8 mile of new road.

This will be a two-man operation and will not be necessary

for waste disposal. Cuttings & other debris will be contained in pit.

If the well is plugged, will reseed with grass or whatever the BLM specifications.

Tank Btry, if installed, will be on the area of the drill pad. Flow line would follow, were possible, existing roads to pipeline connection.

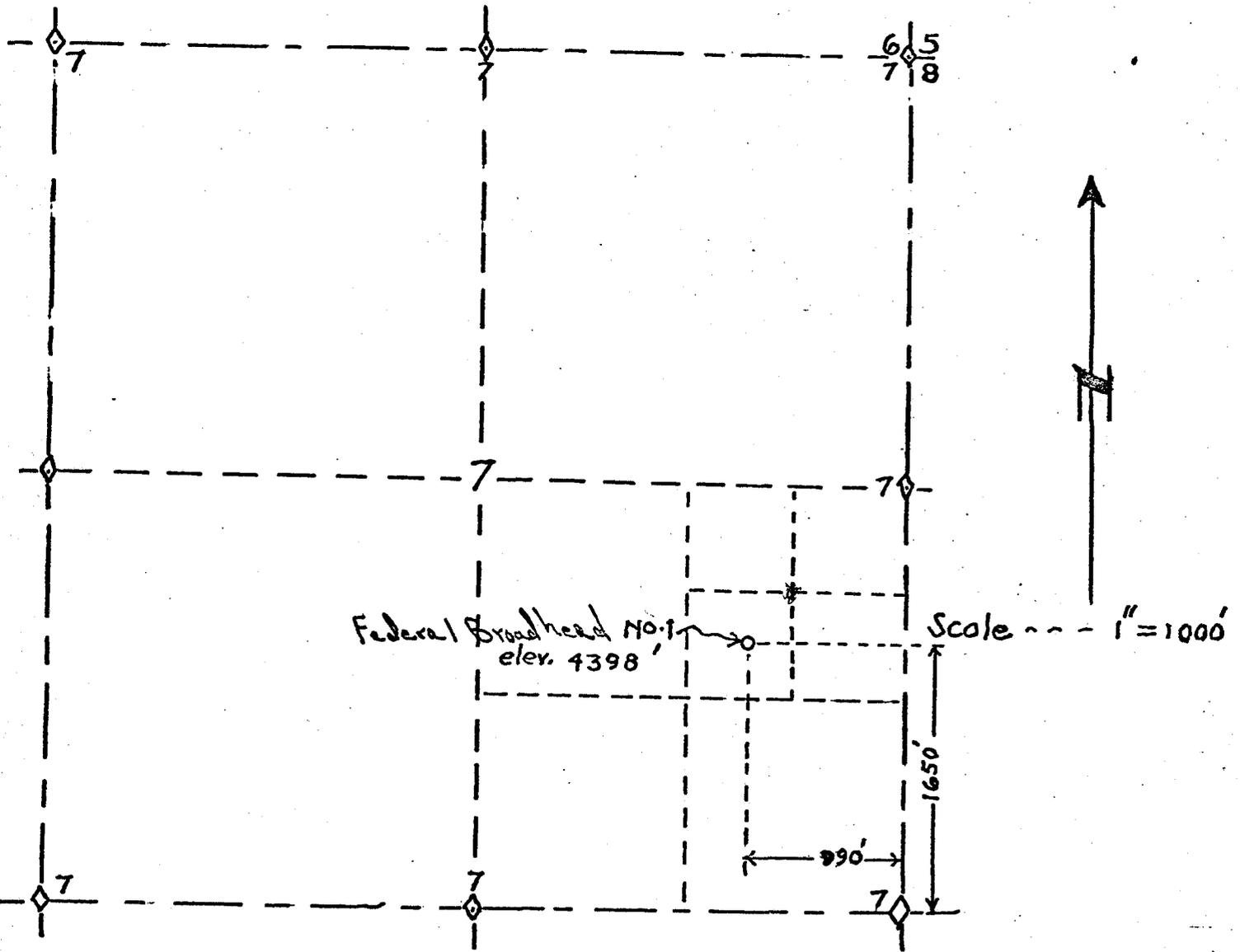
Water will be hauled from Cisco Springs or from the Colorado River.

No Camps - No airstrips. Will rehabilitate/restore all surface disturbance to as near as practical to original contour.

Federal Broadhead No. 1 --- Oil Well Site

Located in the SW $\frac{1}{4}$  NE $\frac{1}{4}$  SE $\frac{1}{4}$  of Section 7, T 21 S, R 24 E  
of the Salt Lake Meridian.

It lies 990 ft. <sup>West of line</sup> East and 1650 ft. North of the South  
line of said Section 7

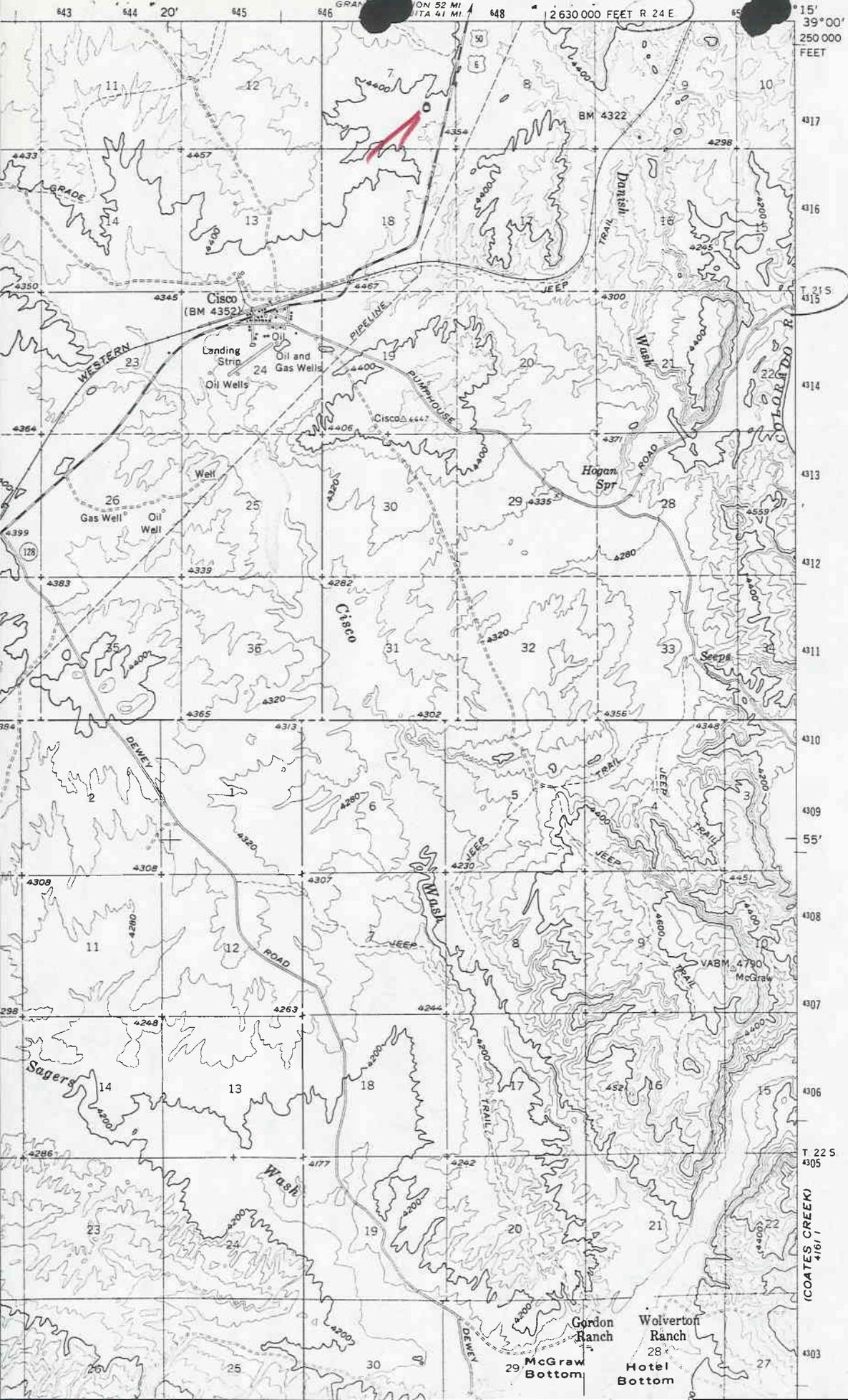


I hereby certify that this plat is based on the field notes of a  
survey made by me on Aug. 27, 1974.

Signed Henry Dennison Clark  
Colorado Registered Land Surveyor  
No. 689

4162 III SE  
(DANISH FLAT 1:24 000)

UTAH-GRAND CO.  
15 MINUTE SERIES (TOPOGRAPHIC)



15'  
39°00'  
250 000  
FEET  
417  
416  
T 21 S  
415  
414  
413  
412  
411  
410  
55'  
409  
408  
407  
406  
T 22 S  
405  
(COATES CREEK)  
416/1  
403

December 23, 1974

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

Re: Well No. Fed. Broadhead #1  
Sec. 7, T. 21 S, R. 24 E,  
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the Order issued in Cause No. 102-5.

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 - Director  
HOME: 466-4455  
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API number assigned to this well is 43-019-30226.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sw

4  
K  
September 25, 1975

MEMO FOR FILING

Re: Walter Broadhead  
Federal Broadhead #1  
Sec. 7, T. 21 S., R. 24 E.  
Grand County, Utah

On September 25, 1975, Mr. Broadhead called and said he had been given verbal approval to plug this well by the U.S.G.S. They also gave him the plugging program.

I informed him that his program was acceptable to the Division and he had our verbal permission to proceed with the plugging. *P*

PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

PLD:tb

cc: U. S. GEOLOGICAL SURVEY



CALVIN L. RAMPTON  
*Governor*

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

CLEON B. FEIGHT  
*Director*

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING  
1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

March 4, 1976

OIL, GAS, AND MINING BOARD

GUY N. CARDON  
*Chairman*

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

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

Re: Well No. Fed. Broadhead #1  
Sec. 7, T. 21S, R. 24E  
Grand County, Utah

Gentleman:

This letter is to advise you that the Well Completion or Recompletion Report and log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3 in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER  
RECORDS CLERK



CALVIN L. RAMPTON  
*Governor*

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH

GUY N. CARDON  
*Chairman*

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

1588 West North Temple  
Salt Lake City, Utah 84116

CLEON B. FEIGHT  
*Director*

June 4, 1976

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

Re: Well No. Fed. Broadhead #1  
Sec. 7, T. 21S, R. 24E  
Grand County, Utah  
Second request

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above referred to well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3 in duplicate, and forward them to this office as soon as possible.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER  
RECORDS CLERK

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

SUBMIT IN DUPLICATE\*  
(See other instructions  
on reverse side)

9

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

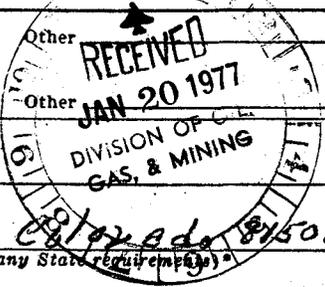
1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other

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 N. 7 St. Grand Junction Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface SW 1 NE 4 SE 4  
At top prod. interval reported below  
At total depth 1370



5. LEASE DESIGNATION AND SERIAL NO.  
U-26491

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Walter D Broadhead

9. WELL NO.  
Fed Broadhead No 1

10. FIELD AND POOL, OR WILDCAT  
Cisco

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec 7. T 21S. R 24E.

12. COUNTY OR PARISH  
Grand

13. STATE  
Utah

14. PERMIT NO. \_\_\_\_\_ DATE ISSUED \_\_\_\_\_

15. DATE SPUNDED Aug 20, 1975 16. DATE T.D. REACHED Sept 23-75 17. DATE COMPL. (Ready to prod.) \_\_\_\_\_

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4398 19. ELEV. CASINGHEAD NA

20. TOTAL DEPTH, MD & TVD 1370 21. PLUG, BACK T.D., MD & TVD NA 22. IF MULTIPLE COMPL., HOW MANY\* NA

23. INTERVALS DRILLED BY \_\_\_\_\_ ROTARY TOOLS L CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
NA

25. WAS DIRECTIONAL SURVEY MADE  
NO

26. TYPE ELECTRIC AND OTHER LOGS RUN  
IFS

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
<u>7"</u>	<u>17</u>	<u>165</u>	<u>8 3/4</u>	<u>Circulated 205X</u>	<u>None</u>

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
<u>NA</u>				

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)  
NA

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
<u>NA</u>	

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 Jan 19 1977

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

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 53, below regarding separate reports for separate completions.

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

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

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

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

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

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

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES		38. GEOLOGIC MARKERS	
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Dakota	470	510	Small show of Gas at 470
Salt wash	1064	1121	Good Sand wet No oil organ show
Entridz	1278	1370	Good Sand wet
			Dakota
			MEAS. DEPTH
			470
			TRUE VERT. DEPTH



Scott M. Matheson  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

STATE OF UTAH

GUY N. CARDON  
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DEPARTMENT OF NATURAL RESOURCES

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CHARLES R. HENDERSON  
ROBERT R. NORMAN  
JAMES P. COWLEY  
HYRUM L. LEE

CLEON B. FEIGHT  
Director

1588 West North Temple  
Salt Lake City, Utah 84116

February 4, 1977

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

Re: Well No. Federal Broadhead #1  
Sec. 7, T. 21S, R. 24E  
Grand County, Utah

Gentlemen:

This letter is to advise you that the electric and or radioactivity logs for the above referred to well are due and have not been filed with this office as required by our rules and regulations.

If electric and or radioactivity logs were not run on said well, please make a statement to this effect in order that our records may be kept accurate and complete.

Thank you for your cooperation relative to the above.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

KATHY OSTLER  
RECORDS CLERK

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE\* (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424.

V

PI

P

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL [ ] GAS WELL [ ] OTHER Dry Hole
2. NAME OF OPERATOR Walter D. Broadhead
3. ADDRESS OF OPERATOR 1645 N. 7th. St., Grand Junction, Colorado 81501
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements) See also space 17 below. At surface SW NE SE
14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 4398
12. COUNTY OR PARISH Grand 13. STATE Utah



5. LEASE DESIGNATION AND SERIAL NO. U-26421
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Walter D. Broadhead
9. WELL NO. Federal Broadhead No. 1
10. FIELD AND POOL, OR WILDCAT Cisco
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7, T21S, R24E, SLB&M

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF [ ] PULL OR ALTER CASING [ ]
FRACTURE TREAT [ ] MULTIPLE COMPLETE [ ]
SHOOT OR ACIDIZE [ ] ABANDON\* [ ]
REPAIR WELL [ ] CHANGE PLANS [ ]
SUBSEQUENT REPORT OF: WATER SHUT-OFF [ ] REPAIRING WELL [ ]
FRACTURE TREATMENT [ ] ALTERING CASING [ ]
SHOOTING OR ACIDIZING [ ] ABANDONMENT\* [X]
(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.)\*

Sept., 25, 1975
Well Plugged as Follows:
18 sx 55' to 155'
28 sx 450' to 550'
15 sx 1050' to 1130'
20 sx 1260' to TD (Below 1278')
10 sx Surface with regulation marker installed October 1976.
Surface restored October 1976 and Pit leveled.

18. I hereby certify that the foregoing is true and correct
SIGNED J. H. Smith TITLE Consulting Engineer DATE 2/27/77
APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_
CONDITIONS OF APPROVAL, IF ANY: