

**FILE NOTATIONS**

Entered in N I D File

Entered On S R Sheet \_\_\_\_\_

Location Map Pinned \_\_\_\_\_

Card Indexed

I W R for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy N I D to Field Office \_\_\_\_\_

Approval Letter \_\_\_\_\_

Disapproval Letter \_\_\_\_\_

**COMPLETION DATA:**

Date Well Completed \_\_\_\_\_

Location Inspected \_\_\_\_\_

OW \_\_\_\_\_ WW \_\_\_\_\_ TA \_\_\_\_\_

Bond released \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

State of Fee Land \_\_\_\_\_

**LOGS FILED**

Driller's Log \_\_\_\_\_

Electric Logs (No. ) \_\_\_\_\_

E \_\_\_\_\_ I \_\_\_\_\_ E-I \_\_\_\_\_ GR \_\_\_\_\_ GR-N \_\_\_\_\_ Micro \_\_\_\_\_

Lat \_\_\_\_\_ Mi-L \_\_\_\_\_ Sonic \_\_\_\_\_ Others \_\_\_\_\_

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: March 4  
Operator: Walter Broadhead  
Well No: Ari-Mex Fed. Sussex #1  
Location: Sec. 22 T. 20S R. 24E County: Grand

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

CHECKED BY:

Administrative Assistant [Signature]  
Remarks: No other wells in Sec. -  
Petroleum Engineer [Signature]  
Remarks:  
Director [Signature]  
Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required  Survey Plat Required   
Order No. 102-5  Surface Casing Change   
to \_\_\_\_\_  
Rule C-3(c), Topographic exception/company owns or controls acreage  
within a 660' radius of proposed site   
O.K. Rule C-3  O.K. In \_\_\_\_\_ Unit   
Other:

Letter Written/Approved

Grand Junction Colo

Dear Sirs,

March 9, 1977

Enclosed you will find Designation of  
operator & Survey plat to go with  
application to drill sent in by  
J.N. Burkhalter for me

Walter Broadbent

Air-Mex oil & Exploration, Inc  
has a state wide Bomb.

CIRCULATE TO:

DIRECTOR \_\_\_\_\_  
PETROLEUM ENGINEER \_\_\_\_\_  
MINE COORDINATOR \_\_\_\_\_  
ADMINISTRATIVE ASSISTANT \_\_\_\_\_  
ALL \_\_\_\_\_

RETURN TO

FOR FILING

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# DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Utah Land Office  
SERIAL NO.: U 17457

and hereby designates

NAME: Walter D. Broadhead  
ADDRESS: 6145 N. 7th Street

Grand Junction, Colorado 81501

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

T. 20 S. R. 23 E.

Sec. 22, W1/2 NE1/4, W1/2 NW1/4, E1/2 SE1/4, E1/2 SW1/4

Sec. 27, W1/2 NW1/4, E1/2 SW1/4

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ARI-MEX OIL & EXPLORATION, INC.

By B. J. Baggett  
(Signature of lessee)  
XXXXXXXXXX  
President

Jan. 15 1977  
(Date)

Box 249 Moab, Utah 84532  
(Address)



March 11, 1977

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

Re: Well No. Ari-Mex Federal  
Sussex No. 1  
Sec. 22, T. 20 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 Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

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

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

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 43-019-30345.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

/SW  
cc: U.S. Geological Survey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other inst. on revers)

Form approved.  
Budget Bureau No. 42-R1425.

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

2. NAME OF OPERATOR  
 Walter 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.)  
 At surface 990 FWL, 2310 FNL  
 At proposed prod. zone 990 FWL, 2310 FNL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Cisco, Utah 7 miles Westerly

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

16. NO. OF ACRES IN LEASE 480 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL 10 acres

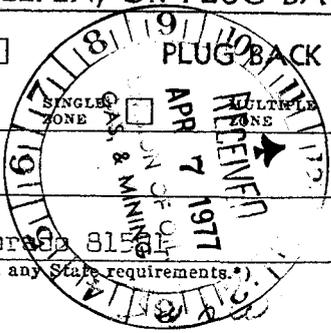
18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 650'

19. PROPOSED DEPTH 1000'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 4525

22. APPROX. DATE WORK WILL START\* March 1, 1977



5. LEASE DESIGNATION AND SERIAL NO. U-17457

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME ARI-MEX

9. WELL NO. Federal Sussex No.1

10. FIELD AND POOL, OR WILDCAT SAGE

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T20S, R24E SLB3M

12. COUNTY OR PARISH Grand

13. STATE Utah

22. APPROX. DATE WORK WILL START\* March 1, 1977

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7" (new)	17 lb.	100'	25 sx Reg - circulate
6 1/4"	4 1/2"	9.5 lb.	1000'	40 sx Reg

*Approval notice - Div of Oil - Gas Mining - Utah*

Surface Formation: MANCOS  
 Propose to test Dakota & Cedar Mountain Formations  
 Surface Use Plan Attached:  
 Estimated Tops:  
 Dakota 450 Oil Note: Water Sands not anticipated  
 Buckhorn 750 Oil  
 Pressure Control: Schematic attached showing BOP, Kill lines, check valves and pressure ratings. Seven Point Plan also attached.  
 Logging: IES and FDC. No Coring Planned  
 Hazards: Experience does not indicate that abnormal pressures or Hydrogen Sulfide will be encountered.  
 Starting Date: March 1, 1977, Ten days operating time.

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 J. M. Broadhead TITLE Consulting Engineer DATE 2/21/77

(This space for Federal or State office use)

PERMIT NO. 43-019-30345 APPROVAL DATE \_\_\_\_\_

APPROVED BY (ORIG. SGD.) E. W. GUYNN TITLE DISTRICT ENGINEER DATE APR 06 1977

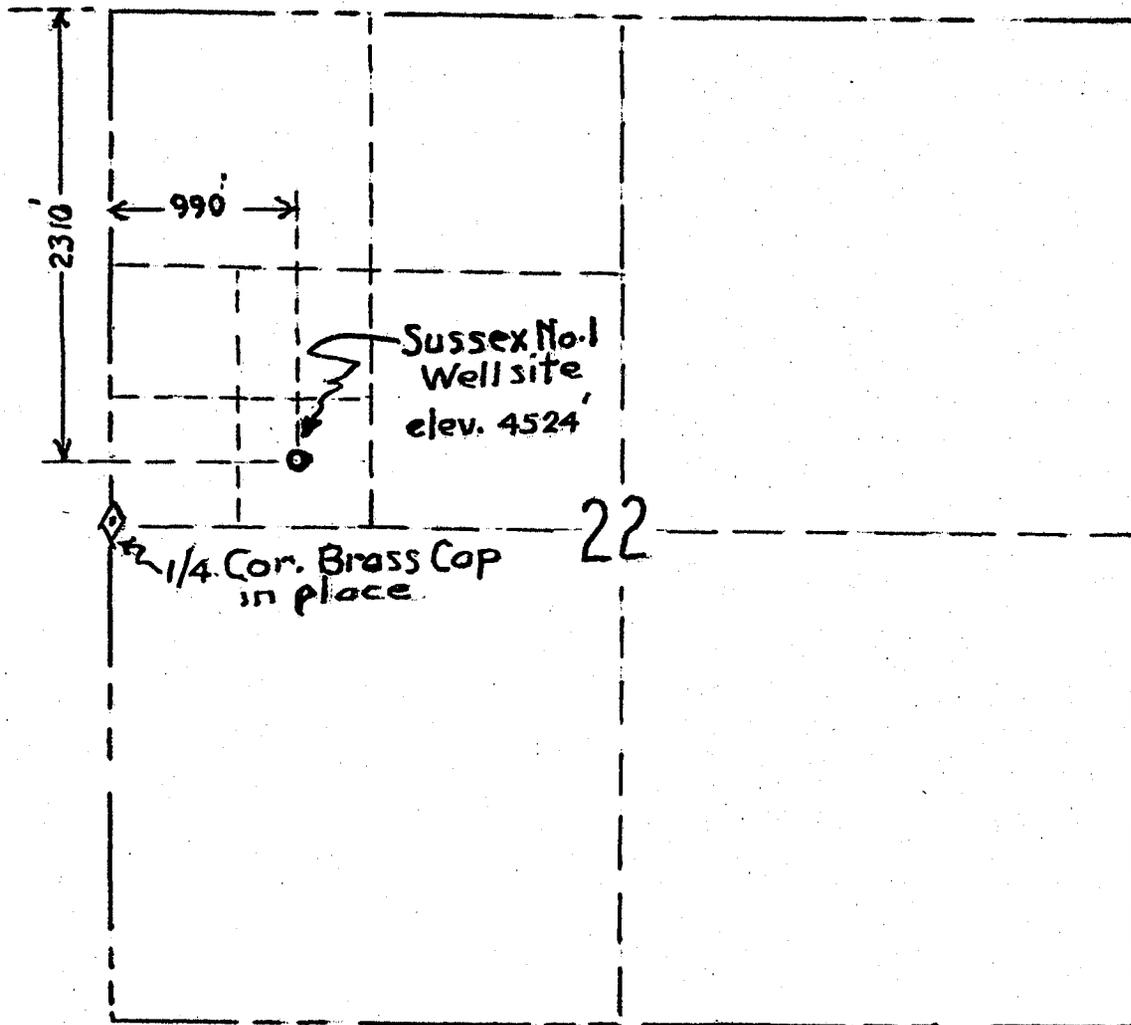
CONDITIONS OF APPROVAL, IF ANY:

WELL LOCATION

SUSSEX NO. I  
in the

SE  $\frac{1}{4}$  SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  of Section 22, T 20 S R 24 E  
of the Salt Lake Meridian

2310' South of the North line and 990'  
East of the West line  
of Section 22

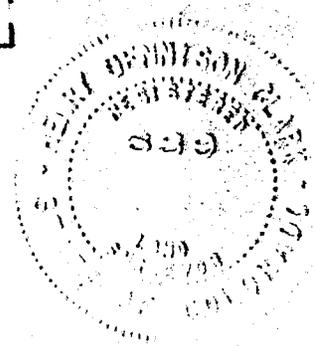


Scale  
1 in. 1000 ft

March 5, 1977

Surveyed, drawn and certified by H. D. Clark

Signed Henry Dennison Clark  
Colorado Registered Land Surveyor





Lease

U 17957

Well No. & Location

FED. SUBSEX #1 SE SW NW SEC. 22 T20S R24E

GRAND COUNTY UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

PROPOSES TO DRILL AN OIL AND

GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 1000 FT. TD. 2) TO CONSTRUCT A

DRILL PAD 100 FT. X 100 FT. AND A RESERVE PIT 20 FT. X 30 FT.

3) TO CONSTRUCT 1200 FT. X MILES ACCESS ROAD AND UPGRADE FT.

X MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

THE LOCATION IS FLAT - A DRAINAGE FROM

SURROUNDING AREAS IS FROM THE N.W. TO THE S.E.

SOIL IS A BROWN SAND & CLAY MIXTURE, VEGETATION IS

RABBIT BRUSH, SAGE BRUSH, AND PATCHES OF NATIVE

GRASS. FAUNA IN THE AREA CONSISTS OF RABBITS, A FEW GROUND

SQUIRELS, COYOTES, AND A FEW BADGERS, ON OCCASIONAL

HAWK, SOME PRARIE LARKS, RAVENS AND A FEW WILDOSES,

THE LOCATION IS APPROX 3/4 OF A MILE FROM THE

INTERSTATE AND WILL REQUIRE ABOUT 1200 FT. OF NEW

ROAD TO THE LOCATION FROM AN ACCESS ROAD

THE TRASH PIT WILL BE FENCED TO PREVENT  
SCATTERING OF DEBRIS -

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) *NO ALTERNATE LOCATION COULD BE FOUND TO JUSTIFY THIS ACTION*

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

(This requested action (~~does~~) (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected 3-8-77

Inspector 

U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

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 BROADHEAD FEDERAL SUSSEX No. 11	990' FWL & 2310' FNL (SW 1/4 NW 1/4) SEC. 22 T20S., R24E SLB 21M GRAND Co. UTAH G.H.E.I. 4525'	U-17457
<p>1. <b>Stratigraphy and Potential Oil and Gas Horizons.</b> This well will commence in the Ferron Sandstone member of the Mancos shale and the Dakota and Cedar Mountain Formations will be tested. Anticipated logs by the operator appear reasonable.</p> <p>2. <b>Fresh Water Sands.</b> VHC reported in section 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 Morrison Formation in this area.</p> <p>3. <b>Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.)</b> Land is considered valuable prospectively for coal. The Ferron Sandstone member of the Mancos shale is known to contain coal beds.</p> <p>4. <b>Possible Lost Circulation Zones.</b> Unknown</p> <p>5. <b>Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.</b> Contact any fresh water aquifers penetrated.</p> <p>6. <b>Possible Abnormal Pressure Zones and Temperature Gradients.</b> None expected by operator.</p> <p>7. <b>Competency of Beds at Proposed Casing Setting Points.</b> Probably adequate.</p> <p>8. <b>Additional Logs or Samples Needed.</b> Adequate logs to determine Mancos coals and any fresh water aquifers penetrated.</p> <p>9. <b>References and Remarks</b> Within 2 mile radius of KGS.</p>		
Date: 10 MAR 1977		Signed: REC

Doam-Utah

J. N. BURKHALTER

Oil, Gas and Pipeline Consultant

Professional Engineer and Land Surveyor  
Registered in Rocky Mountain States

0270 Rockledge Drive  
Glenwood Springs, Colo. 81601  
Telephone 303/945-6976

WELL NO. FEDERAL SUSSEX No. 1

Sec. 22, T 20S, R 24E, SLB & M

Grand County, Utah

SURFACE USE PLAN

Geographical: 7 miles east of Cisco, Utah

Terrain: Low, rolling hills of Mancos shale.

Vegetation: Very sparse.

Surface Water: None. This is dry, desolate, desert country.

1. Existing Roads: Existing roads are 15-18 feet wide, with native ground as surface material. This is primarily Mancos shale with a little Cretaceous gravel in some places.

The included map shows all access roads and roads within a several mile radius of the locations.

There are no immediate plans for improvement of existing roads. If commercial production is found and road improvement is needed, it will be considered at the appropriate time.

2. Planned Access Roads: The map indicates all necessary access roads be constructed which will be to the same physical characteristics as existing roads - 15-18 feet wide with native Mancos Shale as surface with maximum grades not to exceed 3-4%. There will be no culverts required and no major cuts and fills required for access to any of the wells applied for. No fence cuts or cattle guards will be required.
3. Location of Existing Wells: As you can see from the map, existing wells have been located upon the map. The status of the wells is generally indicated on the map by the manner in which the well is marked. There are no water wells or disposal wells. The wells applied for in this application have been referenced in two directions with reference stakes set at 100 and 150 feet in two directions giving a total reference of 300 feet for each well.

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't)

- 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 cotton-tail 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:

J. M. Burkhalter  
0270 Rockledge Drive  
Glenwood Springs, Colorado 81601  
(303) 945-6976  
Mobile (303) 245-3660, Unit 472

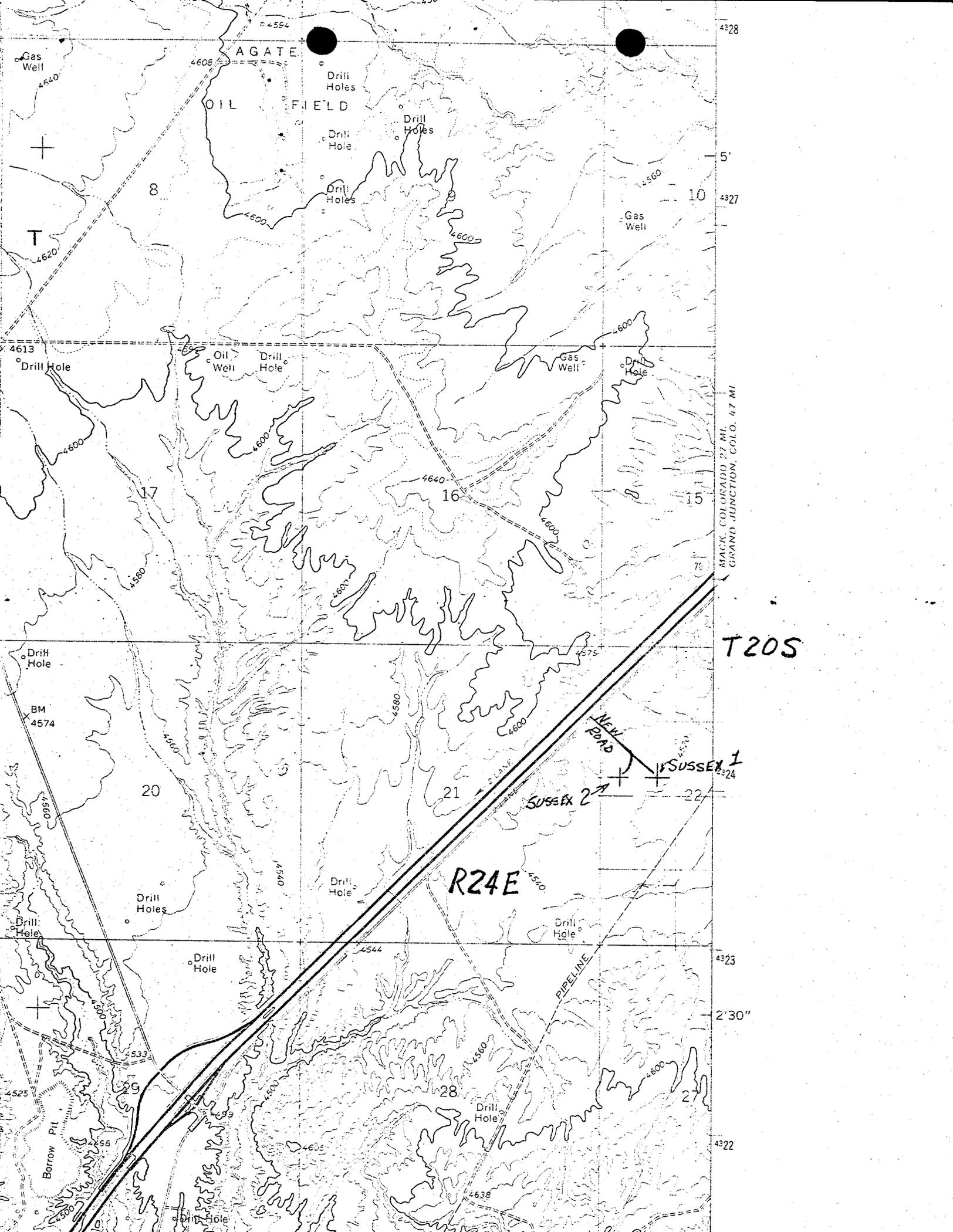
13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated 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.

Feb 21, 1977

Date

J. N. Burkhalter

J. N. Burkhalter, PE-LS  
Consulting Engineer



AGATE

OIL FIELD

4328

5'

10

4327

MACK, COLORADO 27 MI.  
GRAND JUNCTION, COLO. 47 MI

T20S

4324

4323

2'30"

4322

R24E

4594

4608

Gas Well

4640

Drill Holes

Drill Hole

Drill Holes

Drill Holes

4560

Gas Well

8

4620

T

4600

4613

Drill Hole

Oil Well

Drill Hole

Gas Well

Drill Hole

17

4640

16

15

Drill Hole

BM 4574

20

21

22

Drill Hole

Drill Holes

Drill Hole

Drill Hole

Drill Hole

28

Drill Hole

Borrow Pit

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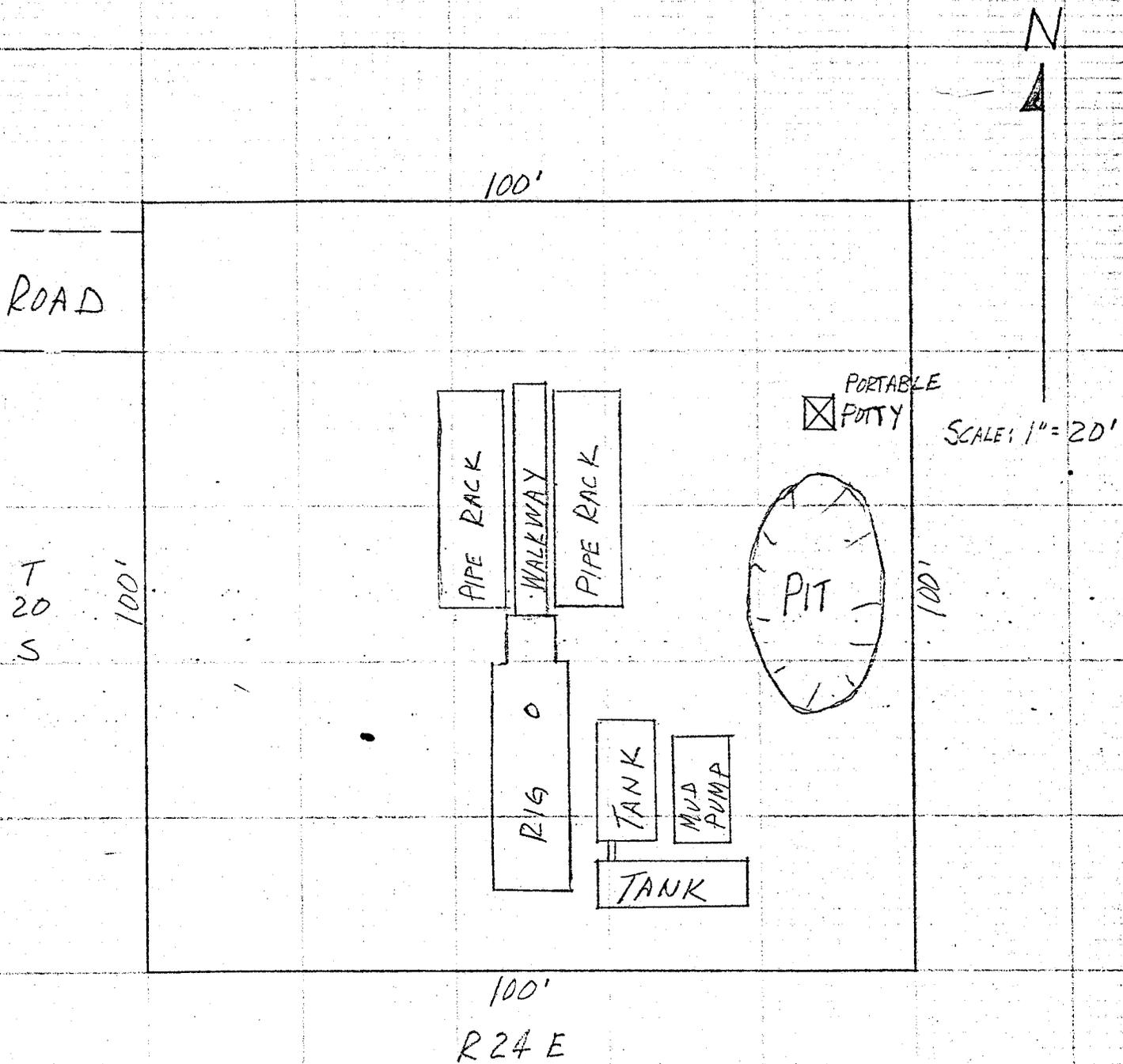
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&lt;

# PROPOSED ROAD LOCATION SITE LAYOUT



SE SW NW  
SEC 22, T 20 S, R 24 E, SLB & M  
GRAND COUNTY, UTAH

J. N. BURKHALTER, PE-LS  
PROPOSED ROAD LOCATION  
SITE LAYOUT  
FEDERAL SUSSEX No. 1  
GRAND COUNTY, UTAH

# WALTER BROADHEAD

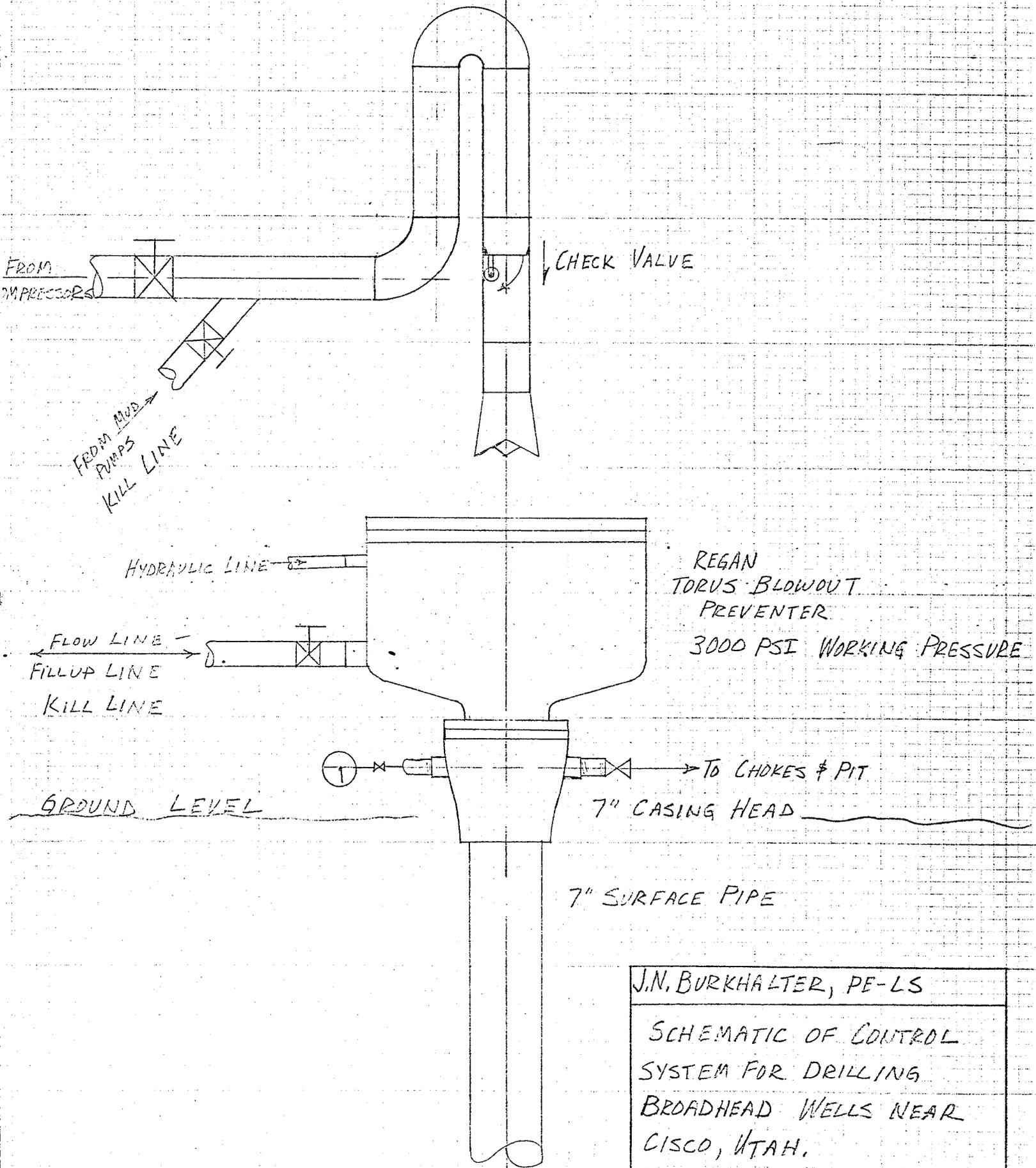
1645 N. 7<sup>th</sup> ST

GRAND JUNCTION, COLORADO 81501

Re: Well No. FEDERAL SUSSEX No. 1  
Sec. 22, T~~23~~<sup>20</sup>S, R~~23~~<sup>24</sup>E, SLB&M  
Grand County, Utah  
Lease: U-17457

## PRESSURE MONITORING AND CONTROL DATA SEVEN POINT PLAN

1. Surface Casing: Set at 200'  
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.  
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.



J.N. BURKHALTER, PE-LS

SCHEMATIC OF CONTROL SYSTEM FOR DRILLING BROADHEAD WELLS NEAR CISCO, UTAH.

CIRCULATE TO:

DIRECTOR \_\_\_\_\_  
PETROLEUM ENGINEER \_\_\_\_\_  
MINE COORDINATOR \_\_\_\_\_  
ADMINISTRATIVE ASSISTANT \_\_\_\_\_  
ALL \_\_\_\_\_

*[Handwritten initials]*

RETURN TO Kathy D.  
FOR FILING

June 7, 1977

Memo To File:

Re: Walter Broadhead  
Federal Sussex #1  
Sec. 22, T. 20 S., R. 24 E.  
Grand County, Ut.

Verbal approval was given to Walter Broadhead to plug and abandon this well. The pertinent facts are:

Total Depth	880'
Surface Casing	103'
Top Dakota	425'
Bottom Dakota	505'

Well will be plugged by putting fifty (50) sacks of cement below the Dakota and fifty (50) sacks of cement above the Dakota. An additional fifty (50) sacks will be put half in -- half out of the surface casing. A ten (10) sack plug will be set at the top of the surface pipe and a regulation dry hole marker will be set.

*[Handwritten signature: Patrick L. Driscoll]*

PATRICK L. DRISCOLL  
CHIEF PETROLEUM ENGINEER

cc: U.S. Geological Survey

PLD/ksw

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

3  
Form approved,  
Budget Bureau No. 42 R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-17457

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

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

1.

OIL WELL  GAS WELL  OTHER  Dry Hole

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR

Walter D. Broadhead

8. FARM OR LEASE NAME

Air-Mex

3. ADDRESS OF OPERATOR

1645 N. 7st Grand Junction

9. WELL NO.

Fed Sussex No. 1

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

Sage

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

Sec 22, T20S. R24E S11

14. PERMIT NO.

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

4524'

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.)

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.)\*

6-6-77 plugged and abandon well with  
215X From 450' to 550'  
20 SX From 550' to 670'  
18 SX From 140' to 240'  
10 SX at surface with Marker

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

DATE: 7/24/87

BY: W. B. Knight

RECORDED

JUL 07 1987

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

DIVISION OF  
OIL, GAS & MINING  
operator

SIGNED Walter D. Broadhead

TITLE

DATE 6-25-77

(This space for Federal or State office use)

FOR E. W. GUYNN  
DISTRICT ENGINEER

APPROVED BY E. W. Guynn  
CONDITIONS OF APPROVAL IF ANY:

TITLE

DATE JUL 06 1981

UTAH STATE O & G \*See Instructions on Reverse Side



CALVIN L. RAMBTON  
Governor

GORDON E. HARMSTON  
Executive Director,  
NATURAL RESOURCES

CLEON B. FEIGHT  
Director

OIL, GAS, AND MINING BOARD

GUY N. CARDON  
Chairman

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

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

1588 West North Temple  
Salt Lake City, Utah 84116

June 12, 1978

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

Re: Please see attached sheet for list  
of wells and months due--

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the months indicated above on the subject well(s).

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form GOC-15, (U S Geological Survey Form 9-331) "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

KATHY OSTLER  
RECORDS CLERK

POOR COPY

Walter D. Broadhead  
Attachment - Reports due

Well No. Patsantaras #1  
Sec. 7, T. 20S, R. 24E,  
Grand County, Utah - WELL COMPLETION REPORT DUE  
THIRD REQUEST

Well No. Federal Reina #1  
Sec. 14, T. 20S, R. 24E,  
Grand County, Utah - Aug. 77 thru' May 78

✓ Well No. Ari-Mex Federal Sussex #1  
Sec. 22, T. 20S, R. 24E,  
Grand County, Utah - WELL COMPLETION REPORT DUE

Well No. Broadhead Federal #2  
Sec. 6, T. 21S, R. 24E,  
Grand County, Utah Aug. 77 thru' May 78

Well No. Broadhead Federal #3  
Sec. 6, T. 21S, R. 24E,  
Grand County, Utah - Aug. 77 thru' May 78

Well No. Tomlinson Fee #2  
Sec. 12, T. 21S, R. 24E,  
Grand County, Utah - Feb. 78 thru' May 78



SCOTT M. MATHESON  
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  
May 25, 1979

OIL, GAS, AND MINING BOARD

I. DANIEL STEWART  
*Chairman*

CHARLES R. HENDERSON  
JOHN L. BELL  
THADIS W. BOX  
C. RAY JUVELIN

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

Re: WELL NO. ARI-MEX FEDERAL SUSSEX #1  
Sec. 22, T. 20S, 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*  
KATHY OSTLER  
RECORDS CLERK

SCOTT M. MATHESON  
Governor



OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

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

November 15, 1979

CHARLES R. HENDERSON  
*Chairman*

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

CLEON B. FEIGHT  
*Director*

Walter D. Broadhead  
1645 N. 7th Street  
Grand junction, Colo.

81501

RE: SEE ATTACHED SHEET FOR  
WELLS DUE.

THIS IS THE THIRD NOTICE ON ALL 3.

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

*Debbie Beauregard*

DEBBIE BEAUREGARD  
CLERK-TYPIST

ATTACHMENT: WELLS DUE

- 1) Well No. Federal Reina #1  
Sec. 14, T. 20S, R. 24E,  
Grand County, Utah
- 2) Well No. Patsantaras #1  
Sec. 7, T. 20S. R. 24E,  
Grand County, Utah
- 3) Ari.-Mex Federal Sussex #1  
Sec. 22, T. 20S, R. 24E,  
Grand County, Utah



SCOTT M. MATHESON  
Governor

OIL, GAS, AND MINING BOARD

GORDON E. HARMSTON  
*Executive Director,*  
NATURAL RESOURCES

STATE OF UTAH

CHARLES R. HENDERSON  
*Chairman*

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
*Director*

1588 West North Temple  
Salt Lake City, Utah 84116  
(801) 533-5771

JOHN L. BELL  
C. RAY JUVELIN  
THADIS W. BOX  
CONSTANCE K. LUNDBERG  
EDWARD T. BECK  
E. STEELE McINTYRE

March 5, 1980

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

Re: See enclosed copy of wells  
Second Notice

Gentlemen:

This letter is to advise you that the Well Completion or Recompletion Report and Log for the above mentioned wells 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

*Cleon B. Feight*  
CLEON B. FEIGHT  
DIRECTOR

- (1) Well No. Patsantaras #1  
Sec. 7, T. 20S, R. 24E.  
Grand County, Utah
- (2) Well No. Ari-Mex Fed. Sussex #1  
Sec. 22, T. 20S, R. 24E.  
Grand County, Utah
- (3) Well No. Fed. Reina #1  
Sec. 14, T. 20S, R. 24E.  
Grand County, Utah

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

5. LEASE DESIGNATION AND SERIAL NO.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

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

12. COUNTY OR PARISH

13. STATE

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. 7th Grand Junction Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 990 FWL. 2310 FNL Sec 22, T20S, R24E.

At top prod. interval reported below SW NW

At total depth

Aix-Mex

Fed Sussex No-1

Sage WILDCAT

Sec. 22, T20S, R24E.

Grand Utah

14. PERMIT NO. 43-019-30345 DATE ISSUED 3-11-77

15. DATE SPUNDED Mar 10 1977 16. DATE T.D. REACHED 6-3-77 17. DATE COMPL. (Ready to prod.) 6-5-77 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4525 FT 19. ELEV. CASINGHEAD \_\_\_\_\_

20. TOTAL DEPTH, MD & TVD 880' 21. PLUG, BACK T.D., MD & TVD \_\_\_\_\_ 22. IF MULTIPLE COMPL., HOW MANY\* \_\_\_\_\_ 23. INTERVALS DRILLED BY Rotary ROTARY TOOLS \_\_\_\_\_ CABLE TOOLS \_\_\_\_\_

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* \_\_\_\_\_ 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN No-logs Run 27. WAS WELL CORED \_\_\_\_\_

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>17LB</u>	<u>190</u>	<u>8 3/4</u>	<u>Circulated cement</u>	<u>None</u>

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

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

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 10-17-1980

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

# INSTRUCTIONS

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

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

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

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29: "Sacks Cement":** Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	GEOLOGIC MARKERS
DaKota	475'	500'	white sand Hard No shows	DaKota	MEAS. DEPTH 380' to 400'
cedar Mtn.	600	620	white sand No shows Hole Filled with 10 # Mud Plugged From 140' to 240' with 14 SX cement 495' to 670 with 20 SX cement 10 SX with Dry Hole Marker	cedar Mt	MEAS. DEPTH 880 to 890 10'

RECEIVED

OCT 21 1980

DIVISION OF OIL, GAS & MINING