

FILE NOTAS

Entered in NID File

Entered On S R Sheet _____

Location Map Pinned _____

Card Indexed

IWR for State or Fee Land _____

Checked by Chief _____

Copy NID to Field Office _____

Approval Letter _____

Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 4/8/77

OW _____ WW _____ TA _____

GW _____ OS _____ PA

Location Inspected _____

Bond released _____

State of Fee Land _____

LOGS FILED

Driller's Log

Electric Logs (No.) NLR (NO LOGS RUN)

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____

Lat _____ Mi-L _____ Sonic _____ Others _____

February 11, 1977

State Of Utah
Department Of Natural Resources
Division Of Oil, Gas & Mining
Salt Lake City, Utah

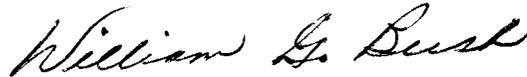
Dear Mr. Feight;

I request an exception to rule C-3 based on substantial geological findings.

A core hole has been drilled and there has been significant indications from the core hole that a well drilled in the proposed location will encounter commercial quantities of oil and gas.

I hope that you will approve the Bush # 1 well site.

Yours very truly,



William G. Bush

WGB/cc



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U 33967

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U.S.A.

9. WELL NO.
Bush # 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
Sec. 23 - Township 19 South Range 10 East

12. COUNTY OR PARISH | 13. STATE
Emery | 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
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive - Grand Junction, Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface **3100.24 feet from North Line & 2415.41 feet from East Line**
At proposed prod. zone **Section 23 - T 19 S - R 10 E.**
2180' FSL & 2415' FEL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2415 feet

16. NO. OF ACRES IN LEASE
2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None on lease

19. PROPOSED DEPTH
2500 feet

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5685 Ground

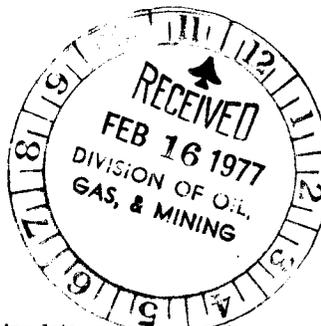
22. APPROX. DATE WORK WILL START*
March 1, 1977

PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 10" | 85/8" | 28# | 100 ft. | 30 sacks |
| 7" | 5 1/2" | 14# | 1450 ft. | 65 sacks |

I propose to drill the well to approximately 1450 feet with air & the hole size will be 7". I will run a string of 5 1/2" casing to 1450 feet and cement using 65 sacks of cement. I will drill out the cement plug and drill into the Moenkopi formation with air and test that zone. If this zone is not commercial, I will drill the well on down to the Kaibab formation @ 2500 feet.

I will use a Shaffer blow out preventor.



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 William G. Bush TITLE Owner DATE 2/11/77

(This space for Federal or State office use)

PERMIT NO. 43-015-30047 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Feb. 17-
Operator: William G. Bush
Well No: Bush Fed. #1
Location: Sec. 23 T. 19S R. 10E County: Curry

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

CHECKED BY:

Administrative Assistant [Signature]
Remarks: No other wells in Township
Petroleum Engineer [Signature]
Remarks: Sufficient Reason for this work will be
Director [Signature]
Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required Survey Plat Required
Order No. 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

February 18, 1977

William G. Bush
619 Viewpoint Drive
Grand Junction, Colorado 81501

Re: Bush Federal #1
Sec. 23, T. 19 S, R. 10 E,
2180' FSL & 2415' FEL
Emery 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(c), 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 (aquifer) are encountered during drilling.

The API number assigned to this well is 43-015-30047.

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**

5. LEASE DESIGNATION AND SERIAL NO.
U 33967

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
U.S.A.

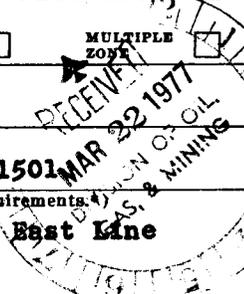
9. WELL NO.
Bush # 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23 - Township 19 South Range 10 East .

12. COUNTY OR PARISH
Emery

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
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive - Grand Junction, Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface **3100.24 feet from North Line & 2415.41 feet from East Line**
 At proposed prod. zone **Section 23 - T 19 S - R 10 E.**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
12 miles East of Castlegate, Utah

| | | |
|---|--|---|
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2415 feet | 16. NO. OF ACRES IN LEASE 2560 | 17. NO. OF ACRES ASSIGNED TO THIS WELL 40 |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None on lease | 19. PROPOSED DEPTH 2500 feet | 20. ROTARY OR CABLE TOOLS Rotary |

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5685 Ground

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

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 10" | 8 5/8" | 28# | 100 ft. | 30 sacks |
| 7" | 5 1/2" | 14# | 1450 ft. | 65 sacks |

I propose to drill the well to approximately 1450 feet with air & the hole size will be 7". I will run a string of 5 1/2" casing to 1450 feet and cement using 65 sacks of cement. I will drill out the cement plug and drill into the Moenkopi formation with air and test that zone. If this zone is not commercial, I will drill the well on down to the Kaibab formation @ 2500 feet.
 I will use a Shaffer blow out preventor.

Approval notice - Div of Oil Gas & 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 *William G. Bush* TITLE Owner DATE 2/11/77

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY (ORIG. SGD.) E. W. GUYNN TITLE DISTRICT ENGINEER DATE MAR 21 1977

CONDITIONS OF APPROVAL, IF ANY:

PROPERTY DESCRIPTION:

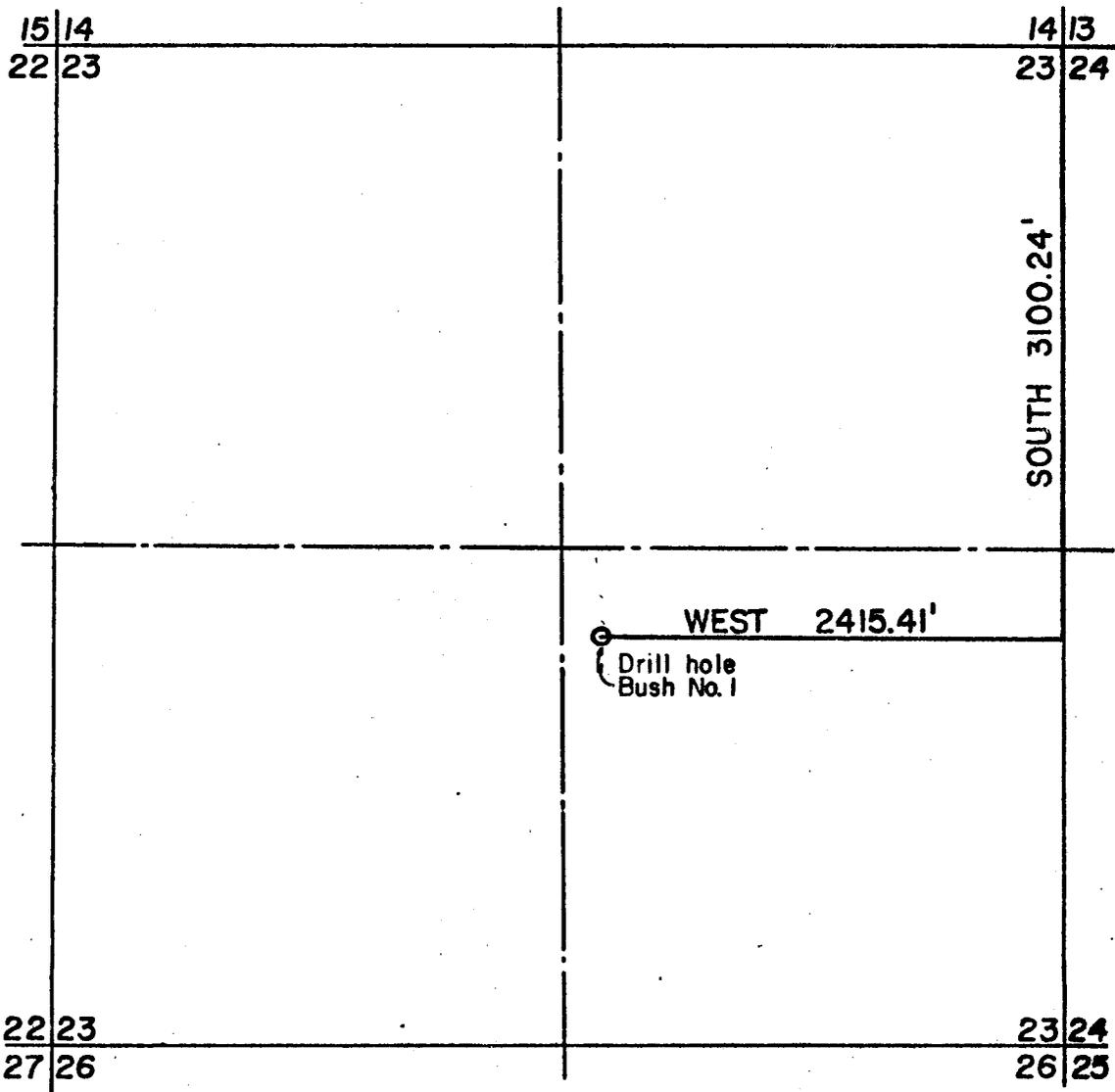
BUSH No. 1

Located at a point 3100.24 feet South
and 2415.41 feet West of the NE corner
of Section 23, T. 19 S., R. 10 E., SLB&M.

CERTIFICATE

Craig E. Johansen
REGISTERED SURVEYOR,
CRAIG E. JOHANSEN

HOLDING CERTIFICATE NO. 3826, DO HEREBY CERTIFY THAT
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-
ERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND
BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-
CEPTIONS: *none*



| | | | | |
|---------|----------|-------|---|---|
| SECTION | TOWNSHIP | RANGE | <p>CRAIG E. JOHANSEN REGISTERED LAND SURVEYOR JOHANSEN & TUTTLE ENGR. INC. CASTLE DALE, UTAH</p> | SURVEY FOR |
| 23 | 19 S | 10 E | | <p>WILLIAM BUSH 619 VIEWPOINT DRIVE GRAND JUNCTION COLO.</p> |
| DATE | SCALE | BLOCK | | |
| 1-77 | 1"=1000' | | | |
| PLAT | SURVEY | | | |

Lease U- 33967

Well No. & Location BUSH #1 SEC. 23 T19S R10E

EMERY COUNTY, UTAH (wildcat well)

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

William G. Bush PROPOSES TO DRILL AN OIL AND
GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 2500 FT. TD. 2) TO CONSTRUCT A
DRILL PAD 50 FT. X 80 FT. AND A RESERVE PIT 8 FT. X 10 FT.
3) TO CONSTRUCT _____ FT. X _____
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 drill site is Flat and the main drainage is
From North to South, the soil is sandy with no
vegetation in the immediate area of the drill pad

The well will be drilled with a truck mounted
portable Rig and will require no ground disturbance
with the exception of two small pits for cementing
purposes.

Fauna in the area consists of a few
Rabbits, prairie dogs, ground squirrels and other rodents
native to the area, a few prairie larks and an
occasional Hawk.

A self contained trailer house will be on
location for disposal of human waste.

3. Effects on Environment by Proposed Action (potential impact)

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 THAT WOULD WARRANT THIS ACTION

CIRCULATE TO:

DIRECTOR _____
PETROLEUM ENGINEER _____
MINE COORDINATOR _____
ADMINISTRATIVE ASSISTANT _____
ALL _____
RETURN TO *Kathy O.*
FOR FILING

April 13, 1977

MEMO TO FILE

Re: William Bush
Bush #1
Sec. 23, T. 19 S, R. 10 E,
Emery County, Utah

On April 8, 1977, Mr. Bush notified this office that the above referred to well would be plugged and abandoned. Pertinent data is as follows:

Total Depth: 1560'

Casing: 93' of 7 5/8" surface

Geologic Tops: Kayenta 661'
Wingate 738'
Chinle 1178'
Moenkopi 1458'

Plugs: plug from Moenkopi into Chinle
plug 30' into Chinle and Wingate,
15' into each formation
Plug in shoe of 9 5/8" and cement for
marker

CLEON B. FEIGHT
DIRECTOR

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

| Well | Location | Lease No. |
|----------------------------|---|-----------|
| WILLIAM G. BUSH BUSH #1 | 3100' FNL x 2415' FEL (NW 1/4 SE 1/4) SEC. 23 T. 19S. R. 10E EMERY CO. UTAH G. E. 5685' | U-33967 |

1. Stratigraphy and Potential Oil and Gas Horizons. The surface rocks are Cornuel, Late Jurassic in age. The Cornuel Formation is part of the San Rafael group. Because this location is very remote from other wells and a true wildcat in a relatively structurally complex area projected tops have little meaning.
2. Fresh Water Sands. There is no record of a previously drilled well in this Township.
WRD report is found on page 2.
Possible water could be encountered in the Navajo and Wingate Sandstones.
3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.)
None.
4. Possible Lost Circulation Zones.
Unknown
5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.
Protect any fresh water aquifers penetrated.
6. Possible Abnormal Pressure Zones and Temperature Gradients.
Unknown
7. Competency of Beds at Proposed Casing Setting Points.
Probably adequate
8. Additional Logs or Samples Needed.
None.
9. References and Remarks Remote from KGS. USGS. Bull. 806. Geology and oil and gas prospects of part of the San Rafael Swell.

Date: March 16, 1977
by William G. Spitzer (1929) Signed: WGS

Utah - DGM

Depths of fresh-water zones:

Jake L. Hamon, U.S.A. 18 #1, Wildcat

1,980' fsl, 660' fel, sec. 18, T 18 S, R 10 E, Emery Co., Utah

Elev. 5,767 ft GR. Proposed depth 5,000 ft.

| <u>Stratigraphic units</u> | <u>Thickness, approx.</u> | <u>Water and quality</u> |
|----------------------------|---------------------------|-------------------------------------|
| Dakota Ss | 0 - 50 ft | dry |
| Cedar Mountain Fm | 150 - 200 | aquiclude mostly, probably dry |
| Morrison Fm | 400 - 800 | some usable water in lower ss units |
| Summerville Fm | 100 - 300 | aquiclude |
| Curtis Fm | 50 - 250 | possible aquifer/usable water |
| Entrada Ss | 250 - 800 | aquifer/usable |
| Carmel Fm | 150 - 650 | aquiclude |
| Navajo Ss | 440 - 540 | aquifer/usable |
| Kayenta Fm | 50 - 250 | aquiclude generally, little water |
| Wingate Ss | 350 - 400 | aquifer/usable |
| Chinle Fm | 200 - 400 | aquiclude, lower ss-cgl unit/saline |
| Moenkopi Fm | 730 - 850 | aquiclude generally, saline/brine |
| Kaibab Ls | 0 - 100 | may yield some brine |

Because of local structure, including faulting, tops of stratigraphic units are not known with any degree of accuracy; an approximate range of thicknesses are given. The most likely sources of water for stock wells are the Entrada, Navajo, and Wingate Sandstones, although some shallower units may yield enough water. Deeper aquifers contain saline water or brine.

USGS - WRD
13 March 1973

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424
5. LEASE DESIGNATION AND SERIAL NO.

U 33967

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
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive - Grand Junction, Colo. 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface **3100.24' From North Line & 2415.41' From East Line
Section 23**

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, RT, gp, etc.)
5682' Ground Level

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME
U.S.A.

8. FARM OR LEASE NAME
U.S.A.

9. WELL NO.
Bush # 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
**Sec. 23 - T 19 S
R 10 E**

12. COUNTY OR PARISH
Emery

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 <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETION <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | (Other) <input type="checkbox"/> | (Other) <input type="checkbox"/> |

(Other) **Plug & Abandon**

(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.)*

I will plug the well by pumping 30 sacks of cement covering the interval from 1450 ft. thru 1505 ft. I will set another plug covering the zone from 1150 ft. thru 1205 ft. by pumping 30 sacks of cement.

I will plug the surface & set the dry hole marker using 12 sacks of cement.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: May 9, 1977
BY: P. H. Murrell

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

SIGNED William G. Bush TITLE Operator DATE 5/3/77

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY: _____

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

5. LEASE DESIGNATION AND SERIAL NO.

U 33967

10

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.S.A.

9. WELL NO.

Bush # 1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

**Sec. 23
Township 19 South
Range 10 East**

12. COUNTY OR PARISH

Emery

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other _____

2. NAME OF OPERATOR
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive - Grand Junction, Colorado 81501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **3100.24' from North Line & 2415.41' from East Line**
At top prod. interval reported below **of Section 23 - T19S & R10E.**
At total depth _____

14. PERMIT NO. _____ DATE ISSUED _____

15. DATE SPUEDDED **3/29/77** 16. DATE T.D. REACHED **4/8/77** 17. DATE COMPL. (Ready to prod.) _____ 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **5682' Ground** 19. ELEV. CASINGHEAD _____

20. TOTAL DEPTH, MD & TVD **1578 ft.** 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY **0 to 1578'** 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 **None** 27. WAS WELL CORED **No**

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|--------------|-----------------|----------------|------------|------------------|---------------|
| 85/8" | 28# | 92' | 10" | 30 sacks | None |
| | | | | | |
| | | | | | |

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)
**Plugging: 1450' to 1505 - 30 sacks
1150' to 1205 - 30 sacks
Surface casing & marker - 12 sacks**

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| | |
| | |

33.* PRODUCTION

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

| 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 William G. Bush TITLE Operator DATE 5/3/77

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

INSTRUCTIONS

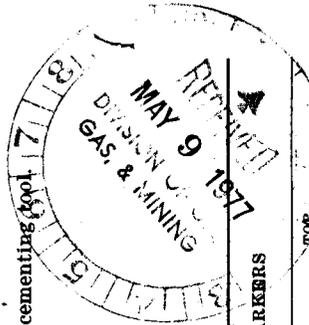
General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the 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 joints. **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

| FORMATION | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME | GEOLOGIC MARKERS | MEAS. DEPTH | TOP | TRUE VERT. DEPTH |
|-----------|-----|--------|---|--|------------------|---|-----|------------------|
| | | | <p><i>None was seen - all well - No sign of gas & water zone encountered.</i></p> | <p>Carmel Navajo Kayenta Wingate Chinle Moenkopi</p> | | <p>0 to 180 180 to 610 610 to 735 735 to 1175 1175 to 1457 1457 to 1578</p> | | |

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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.)

5. LEASE DESIGNATION AND SERIAL NO.

U 33967

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

U.S.A.

9. WELL NO.

Bush # 1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 23 Township 19 South
Range 10 East

12. COUNTY OR PARISH 13. STATE

Emery

Utah

1. OIL WELL GAS WELL OTHER **Dry Hole**

2. NAME OF OPERATOR
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive - 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 **3100.24' From North Line &
2415.41' From East Line of Section 23.**

14. PERMIT NO.

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

5682 Ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)
PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)
REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.)*

**I plugged the well as follows: Plug # 1 from 1375 to 1475 ft. with 22 sacks
Plug # 2 from 1050 to 1150 ft. with 22 sacks
Plug # 3 from 550 to 650 ft. with 22 sacks
Plug # 4 from 75 to 150 ft. with 15 sacks
10 sacks @ surface with marker.
Heavy mud was pumped into the well between plugs.**

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

SIGNED William G. Bush

TITLE Operator

DATE 5/18/77

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

RECEIVED
NOV 09 1989

DIVISION OF
OIL, GAS & MINING

BUREAU OF LAND MANAGEMENT
MOAB DISTRICT

UT-060-3160-1
(April 1984)

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company William S. Bush Well No. Bush # 1
Location: Sec: 13/13 Sec. 23 T. 19 S R. 10 E Lease No. U 56040
Onsite Inspection Date _____

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 the field representative to ensure compliance.

A. DRILLING PROGRAM

1. Surface Formation and Estimated Formation Tops:

Kanab - Surface
Navajo - 150 ft.
Haystack - 100 ft.
Alingate - 750 ft.
Shinarump - 1170 ft.
Moenkopi - 1450 ft.

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

| | <u>Formation</u> | <u>Depth</u> |
|-------------------------|------------------|-----------------|
| Expected oil zones: | <u>Moenkopi</u> | <u>1450 ft.</u> |
| Expected gas zones: | <u>none</u> | |
| Expected water zones: | <u>none</u> | |
| Expected mineral zones: | <u>none</u> | |

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: S.O.P. will be checked by pressure
method prior to drilling. Roasting head will also be used
checked. Corrosion diagram is enclosed.

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. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure-tested before drilling casing cement plugs. The Resource Area (will ~~will not~~) be notified 1 days in advance when pressure tests are to be conducted.

4. Casing Program and Auxiliary Equipment: _____
Surface: Drill 10" hole to 100 feet & set 7" - 23# and
cement to surface. _____
Production: Drill 6 $\frac{1}{4}$ " hole & set 4 $\frac{1}{2}$ " - 9.5#. _____

Anticipated cements tops will be reported as to depth, not the expected number of sacks. The Resource Area (will ~~will not~~) be notified 1 days in advance when running casing strings and cement.

5. Mud Program and Circulating Medium: The well will be
drilled with air and air mist. Fifty barrels of mud will
be on hand and ready for use in case it is needed to kill
well or for logging operations. _____

Bloobe line will be misted to reduce fugative dust when air drilling.

6. Coring, Logging and Testing Program: _____
Drill stem tests are not planned at this time. I plan to run
an Induction Log and drill samples will be caught at 10' in-
tervals. No cores will be taken. _____

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, work-over, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential
Hazards: No abnormal gas pressures or temperatures are
expected. No hydrogen sulfide or other hazardous gases or
fluids have been reported in the area. _____

8. Anticipated Starting Dates and Notifications of Operations:

The operator will contact the San Rafael Resource Area at Price, Utah, forty-eight (48) hours prior to beginning any dirt work on this location.

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 9-329, "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 HTL-3A.

If a 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 with a plate, cap or beaded-on with a welding torch:

"Fed" or "Ind", as applicable. "Well number, location by $\frac{1}{4}$ 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: Fifteen miles East of Castledale, Utah.

b. Proposed route to location: Highway 10 then Easterly on County Road to Buckhorn Flat well and then Wedge Overlook Road to location.

c. Plans for improvement and/or maintenance of existing roads: None

d. Other: _____

2. Planned Access Roads:

a. The maximum total disturbed width will be _____ feet.

b. Maximum grades: _____

c. Turnouts: _____

d. Location (centerline): _____

e. Drainage: _____

f. Surface materials: _____

g. Other: _____

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: None

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:

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 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:
Huntington Creek. I will contact Cottonwood Irrigation Co.

A temporary water use permit for this operation will be obtained from the Utah State Engineer at Price, Utah.
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 from: _____
Private Source.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Source of construction material (will/will not) be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit (will/~~will not~~) be lined: If determined during drilling that it is necessary then Bentonite will be used to seal the pit.

Three sides of the reserve pit will be fenced with Net Wire & 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 will be contained in a wire cage & will be taken to an approved land fill.

If burning is required, a permit will be obtained from the State Fire Warden _____
None - Do not plan to burn any trash.

Produced waste water will be confined to a (lined/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).

Other: _____

8. Ancillary Facilities:

Camp facilities (will/~~will not~~) be required. They will be located: _____

9. Well Site Layout:

The reserve pit will be located: on uphill side.

The top 8 inches of soil material will be removed from the location and stockpiled separately on North, South, and East side.

Topsoil along the access road will be reserved in place adjacent to the road.

Access to the well pad will be from: Wedge Overlook Road.

The trash pit will be located: None

10. Plans for Restoration of Surface:

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

Before any dirt work to restore the location takes place, the reserve pit must be completely dry. _____

The operator or his contractor (will/~~will not~~) notify the San Rafael Resource Area at Price, Utah 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. _____

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. .. _____

October - November Seeding.

The following seed mixture will be used: Indian Rice Grass -
1#/acre - Needle & Thread 1#/acre - Winter Fat $\frac{1}{3}$ #/acre -
Mormon Tea $\frac{1}{2}$ #/acre - Fourwing Salt Bush $\frac{1}{2}$ # /acre and
Blue Gramma 1#/acre.

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

Additional Requirements: _____

11. Surface and Mineral Ownership:

Federal Government.

12. Other Information:

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/will not) be required before any construction begins. If any cultural resources are 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. Lessee's or Operator's Representative and Certification

Representative:

Name: William G. Bush
Address: 619 Viewpoint Drive
Grand Junction, Colorado 81506
Phone No.: 303-243-0493

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.

October 24, 1987
Date

William G. Bush - Operator
Name and Title

ONSITE

DATE: May 1, 1989

PARTICIPANTS:

TITLES:

Nervin Miles

BLM

William G. Bush

Operator

Your contact with the District Office is: Lynn Jackson

Office Phone: 801-259-6111

City: Hoab

State: Utah

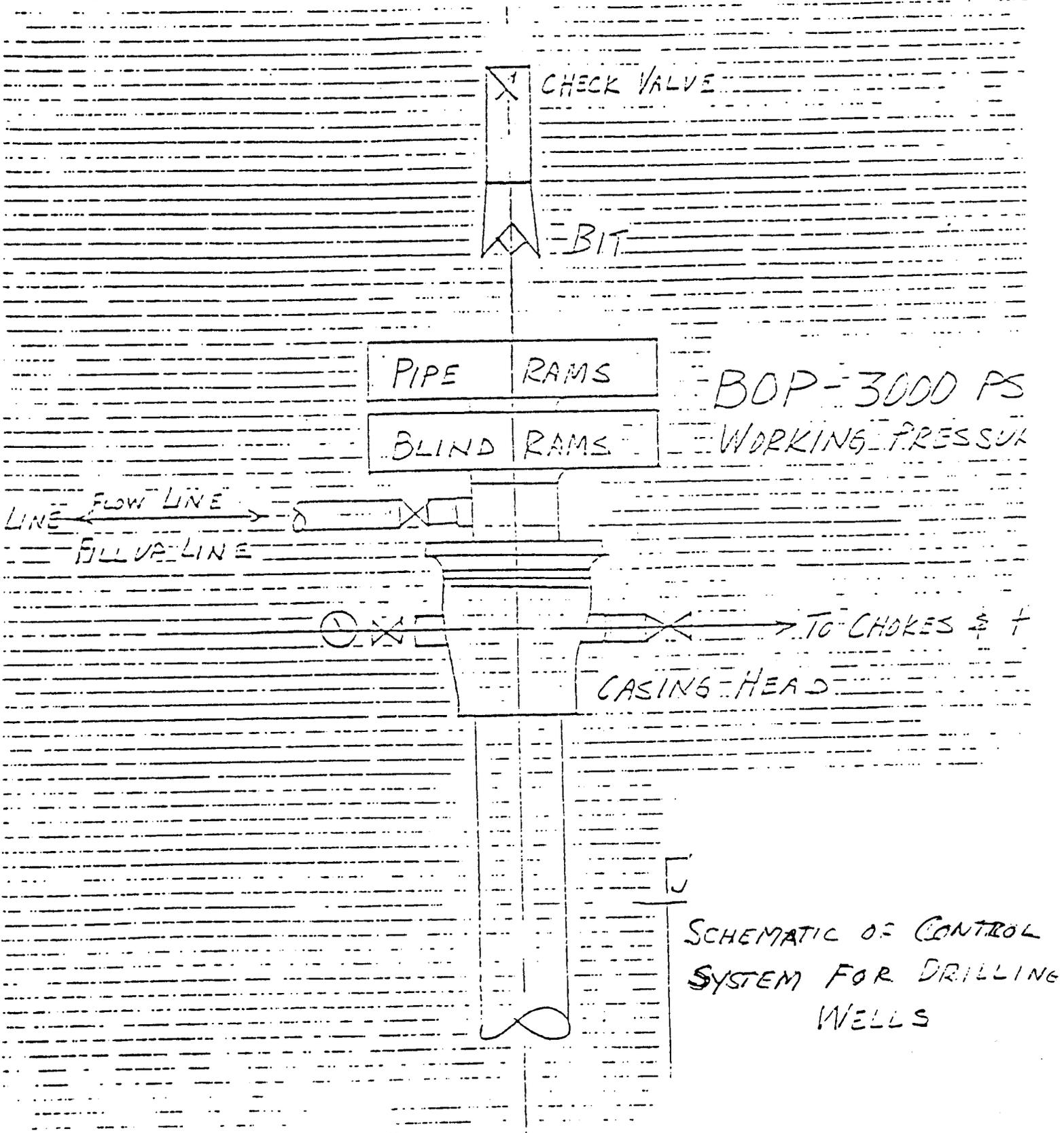
Resource Area Manager's address and contacts are:

Address: P.O. Drawer AB - 900 North 7th. East - Price, Utah 84501

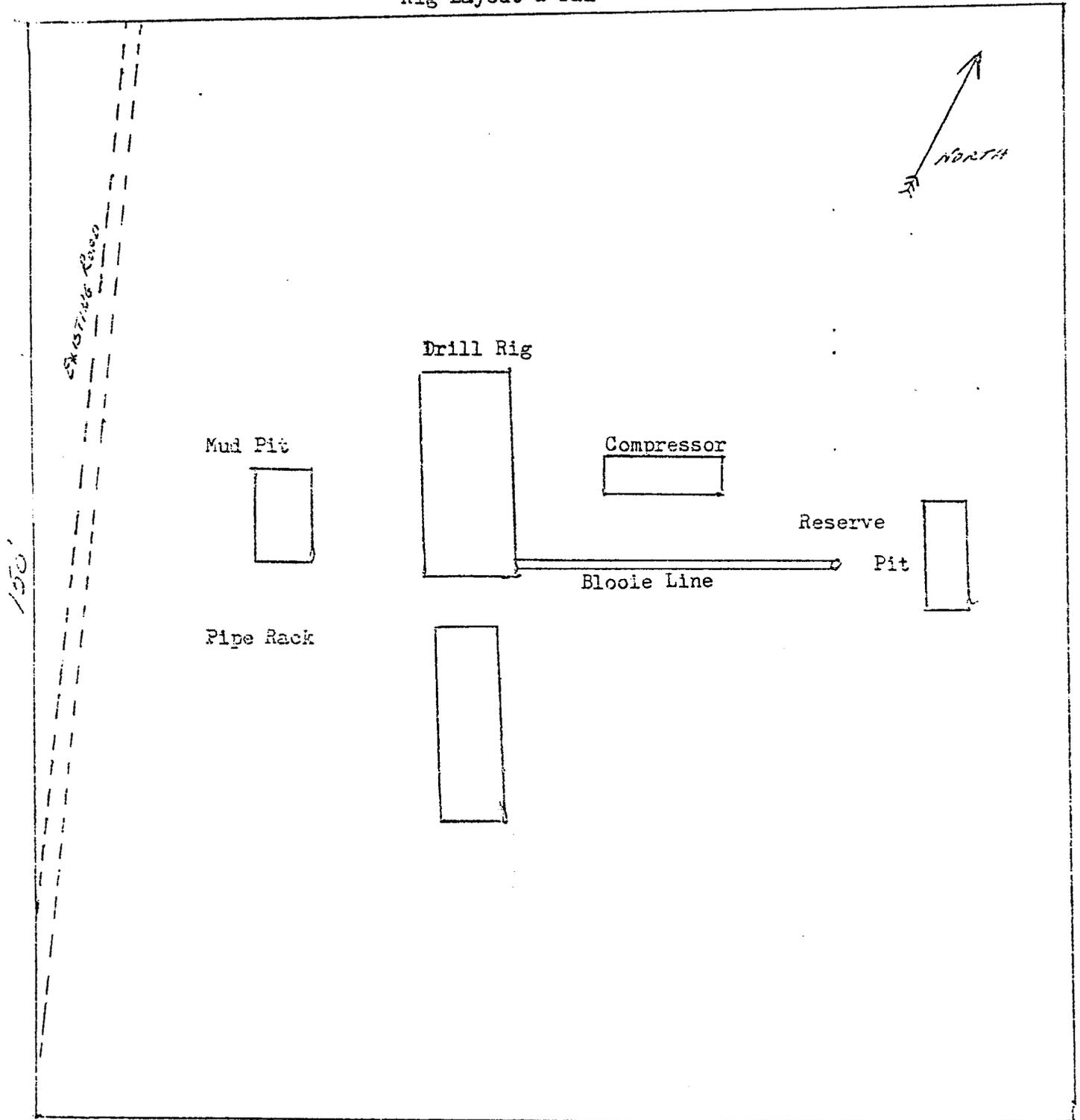
Your contact is: Mike Comminskey

Office Phone: 801-637 - 4784

WILLIAM G. BUSH
BUSH - GOV'T 1-



Rig Layout & Pad



150'

SCALE 1" = 20 Feet

INGEVILLE
1:300

CASTLE DALE
No. 1910

Buck Horn
S B 58

BOB HILL
KNOLL

BUSH-GOVERNMENT 1-

BUSH-GOVERNMENT

WELL



VALLEY

BENCH

SAND
SWELL

LITTLE GRAND FANLOW

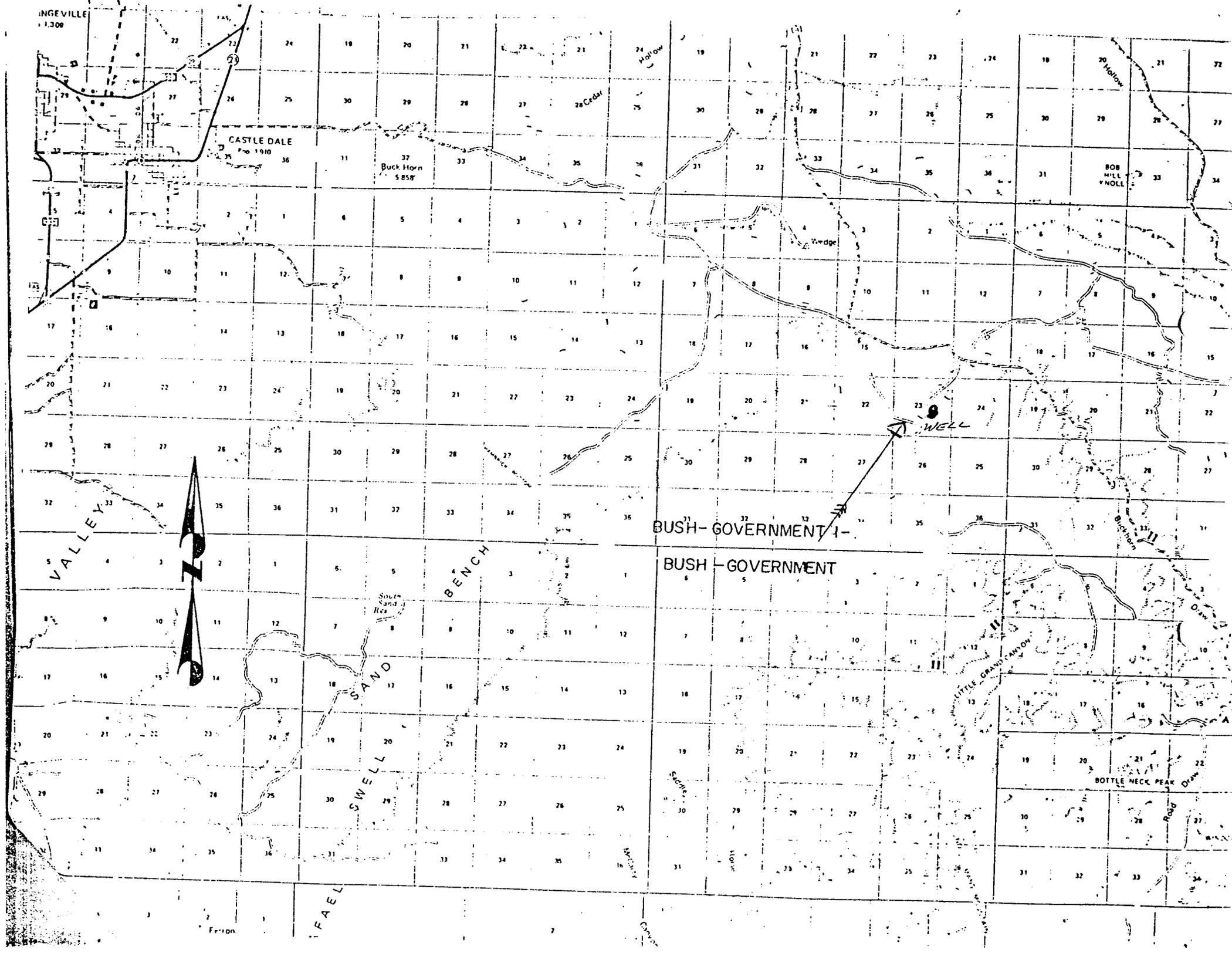
BOTTLE NECK PEAK
DIAM

Ferron

FAEL

Sackie

Coner



RECEIVED
 UNITED STATES DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
 (Other instructions on reverse side)

RE-ENTER
 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 **Reenter**

2. NAME OF OPERATOR
 William G. Bush

3. ADDRESS OF OPERATOR
 619 Viewpoint Drive Grand Junction, Colorado 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 3100.24 ft. from North line & 2415.41 ft. from East line
 At proposed prod. zone Section 23 - T 19 S - R 10 E.
API 43-015-30047 NWSE

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 12 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) **2415'**

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL **40**

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

19. PROPOSED DEPTH **1600 Moenkopi**

20. ROTARY OR CABLE TOOLS **Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5685 Ground

22. APPROX. DATE WORK WILL START*
as soon as permit is issued

5. LEASE DESIGNATION AND SERIAL NO.
U 56040

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
Bush # 1

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23 T 19 S - R 10 E

12. COUNTY OR PARISH | 13. STATE
Emery | Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 10" | 8 5/8" | 28 # | 100' | 30 sacks |
| 6 1/4" | 4 1/2" | 9.5 | T.D. | 60 sacks. |

I propose to reenter the well, drill out the cement plugs and test the Moenkopi Formation.
 I will use a Blow out preventor and rotating head.
 The only dirt work will be digging a mud pit next to the rig. (4ft. deep & 10 ft. long.)
 The existing road runs to the location.

The well was plugged in 1977.

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 William G. Bush TITLE Operator DATE 10/24/89

(This space for Federal or State office use)

PERMIT NO. 43-015-30047

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

APPROVED BY _____ TITLE _____

DATE 12-6-89
 BY John R. Bush
 WELL SPACING: R6153-3

PROPERTY DESCRIPTION:

BUSH No. 1

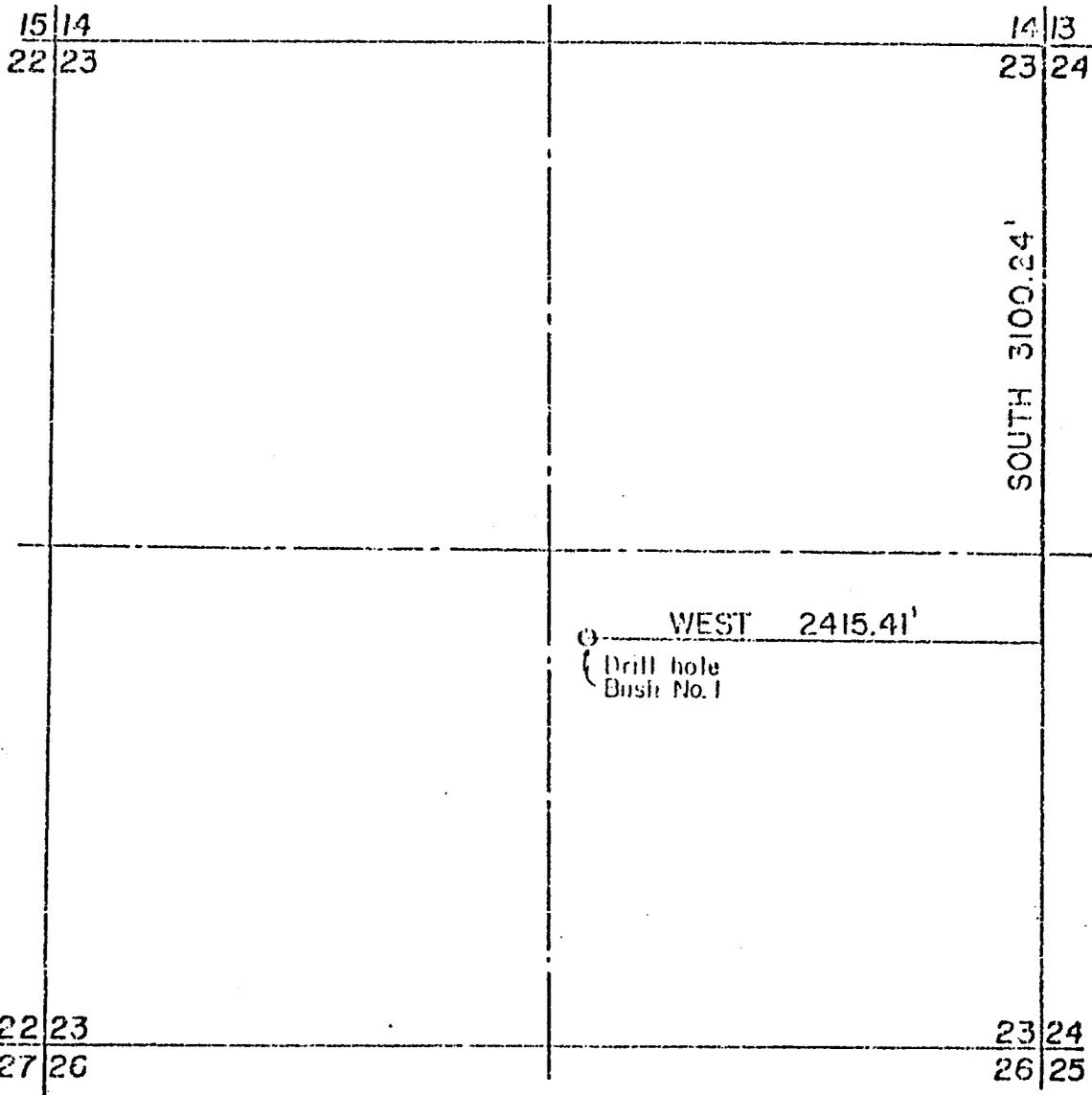
Located at a point 3100.24 feet South
and 2415.41 feet West of the NE corner
of Section 23, T. 19 S., R. 10 E., SLB&M.

NOV 09 1989

DIVISION OF

CERTIFICATE

Craig E. Johansen
REGISTERED SURVEYOR,
CRAIG E. JOHANSEN
HOLDING CERTIFICATE NO. 5329, DO HEREBY CERTIFY THAT
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-
ERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND
BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-
CEPTIONS: *None*



| | | |
|-------------------------------|---------------------------------------|------------------------|
| SECTION 23 DATE 1-77 | TOWNSHIP 19 S SCALE 1"=1000' | RANGE 10 E BLOCK |
|-------------------------------|---------------------------------------|------------------------|

CRAIG E. JOHANSEN

REGISTERED LAND SURVEYOR
JOHANSEN & SONS, INC.
1001 E. 10TH ST., DENVER

SURVEY FOR

WILLIAM BUSH
619 VIEWPOINT DRIVE
GRAND JUNCTION COLO.

(Re-Entry)

OPERATOR William Bush (NOLCO) DATE 11-20-89

WELL NAME Bush #1

SEC NWSE 23 T 19S R 10E COUNTY Emery

43-015-30047
API NUMBER

Federal
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 920'
Need water permit
RDC 11-20-89 / Process 12-4-89
Need exception location request / Received 11-24-89
Btm Approved 11-29-89

APPROVAL LETTER:

SPACING: R615-2-3 N/A R615-3-2
UNIT

N/A R615-3-3
CAUSE NO. & DATE

STIPULATIONS:

1. water permit

RECEIVED
NOV 24 1989

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U - 56040

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
Bush # 1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23
T 19 S R 10 E

12. COUNTY OR PARISH
Emery

13. STATE
Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL Reenter DEEPEN PLUG BACK

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

2. NAME OF OPERATOR
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive Grand Junction, Co. 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface 3100' from North Line & 2415' from East Line of Se. 23
NW/SE
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2415

16. NO. OF ACRES IN LEASE 480

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None

19. PROPOSED DEPTH 1600 ft.

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5682 Gr.

22. APPROX. DATE WORK WILL START* as soon as possible.

23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 10" | 65/8" | 28# | 98' | 30 Sacks. |
| | | | | |
| | | | | |

I propose to reenter the well, drill out the cement plugs and test the Moenkopi Formation.
I will use a B.OP & Rotating Head.
The only dirt work will be digging a mud pit next to the rig. The existing road is next to the location.
The well was plugged in 1977.

*I request an exemption for the location from the General State Spacing for Oil and Gas wells. I control acreage in a 400 ft radius from the well. Thank you.
Sincerely, William G. Bush*

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 William G. Bush TITLE Operator DATE 10/24/89

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

STATE ACTIONS

Mail to:
RDCC Coordinator
116 State Capitol
Salt Lake City, Utah 84114

-
1. ADMINISTERING STATE AGENCY
OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203
2. STATE APPLICATION IDENTIFIER NUMBER:
(assigned by State Clearinghouse)
-
3. APPROXIMATE DATE PROJECT WILL START:
As soon as possible

-
4. AREAWIDE CLEARING HOUSE(S) RECEIVING STATE ACTIONS:
(to be sent out by agency in block 1)
Southeastern Utah Association of Governments

-
5. TYPE OF ACTION: Lease Permit License Land Aquisition
 Land Sale Land Exchange Other _____

-
6. TITLE OF PROPOSED ACTION:
Application for Permit to Drill

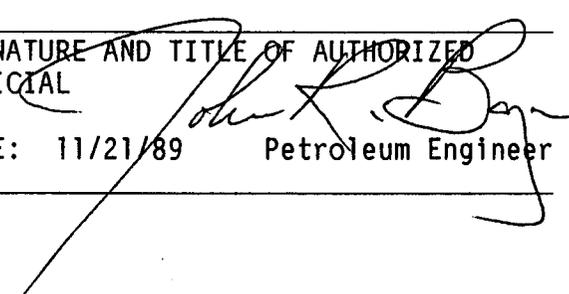
-
7. DESCRIPTION:
William G. Bush proposes to drill a wildcat well, the Bush #1, on federal lease number U-56040 in Emery County, Utah. This action is being presented to RDCC for consideration of resource issues affecting state interests. The U.S. Bureau of Land Management is the primary administrative agency in this case and must issue approval to drill jointly with DOGM before operations can commence.

-
8. LAND AFFECTED (site location map required) (indicate county)
NE/4, NW/4, Section 23, Township 19 South, Range 10 East, Emery County, Utah

-
9. HAS THE LOCAL GOVERNMENT(S) BEEN CONTACTED?
Unknown

-
10. POSSIBLE SIGNIFICANT IMPACTS LIKELY TO OCCUR:
Degree of impact is based on the discovery of oil or gas in commercial quantities.

-
11. NAME AND PHONE NUMBER OF DISTRICT REPRESENTATIVE FROM YOUR AGENCY NEAR PROJECT SITE, IF APPLICABLE:
Jim Thompson, Salt Lake City, 538-5340

-
12. FOR FURTHER INFORMATION, CONTACT: 13. SIGNATURE AND TITLE OF AUTHORIZED OFFICIAL
- John Baza
PHONE: 538-5340
- 
DATE: 11/21/89 Petroleum Engineer

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

HAROLD JACOBS
Chairman

P. O. Drawer AI • Price, Utah 84501 • Telephone 637-5444

WILLIAM D. HOWELL
Executive Director

RECEIVED
NOV 24 1989

AREAWIDE CLEARINGHOUSE A-95 REVIEW

DIVISION OF
OIL, GAS & MINING

NOI ___ Preapp ___ App ___ State Plan ___ State Action Subdivision ___ (ASP # 11-1116-3)

Other (indicate) _____ SAI Number _____

Applicant (Address, Phone Number):

Federal Funds:
Requested: _____

Oil, Gas and Mining
355 West North Temple
3 Triad center, Suite 350
Salt Lake City, Utah 84180-1203

William Bush - Bush #1

Title:

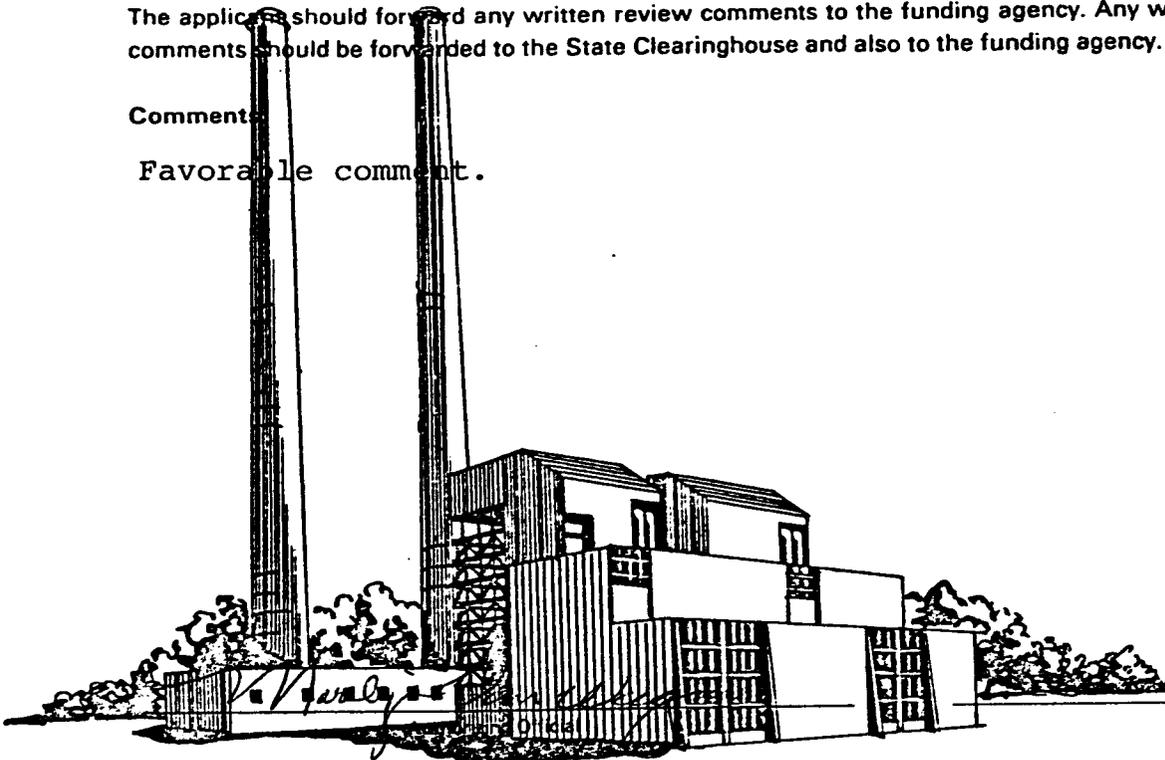
APPLICATION FOR PERMIT TO DRILL

- No comment
- See comments below
- No action taken because of insufficient information
- Please send your formal application to us for review. Your attendance is requested

The applicant should forward any written review comments to the funding agency. Any written response to those comments should be forwarded to the State Clearinghouse and also to the funding agency.

Comments:

Favorable comment.



11-22-89

Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

| | |
|--|----------------------------|
| 5. LEASE DESIGNATION AND SERIAL NO. | U 56040 |
| 6. IF INDIAN, ALLOTTEE OR TRIBE NAME | |
| 7. UNIT AGREEMENT NAME | |
| 8. FARM OR LEASE NAME | |
| 9. WELL NO. | Bush # 1 |
| 10. FIELD AND POOL, OR WILDCAT | Wildcat |
| 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA | Sec. 23 T 19 S - R 10 E |
| 12. COUNTY OR PARISH | Emery |
| 13. STATE | Utah |

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED
DEC 04 1989
MULTIPLE
SALE

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER Reenter

2. NAME OF OPERATOR
 William G. Bush

3. ADDRESS OF OPERATOR
 619 Viewpoint Drive Grand Junction, Colorado

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 3100.24 ft. from North line & 2415.41 ft. from East line
 At proposed prod. zone Section 23 - T 19 S - R 10 E.
 API # 43-015-30047

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 12 Miles East of Castlegate, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2415'

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

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

19. PROPOSED DEPTH 1600

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5685 Ground

22. APPROX. DATE WORK WILL START*
 as soon as permit is issued

23. PROPOSED CASING AND CEMENTING PROGRAM

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 William G. Bush TITLE Operator DATE 10/24/89

(This space for Federal or State office use)

PERMIT NO. 43-015-30047 APPROVAL DATE

/s/ Kenneth V. Rhea ACTING DISTRICT MANAGER NOV 29 1989

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

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

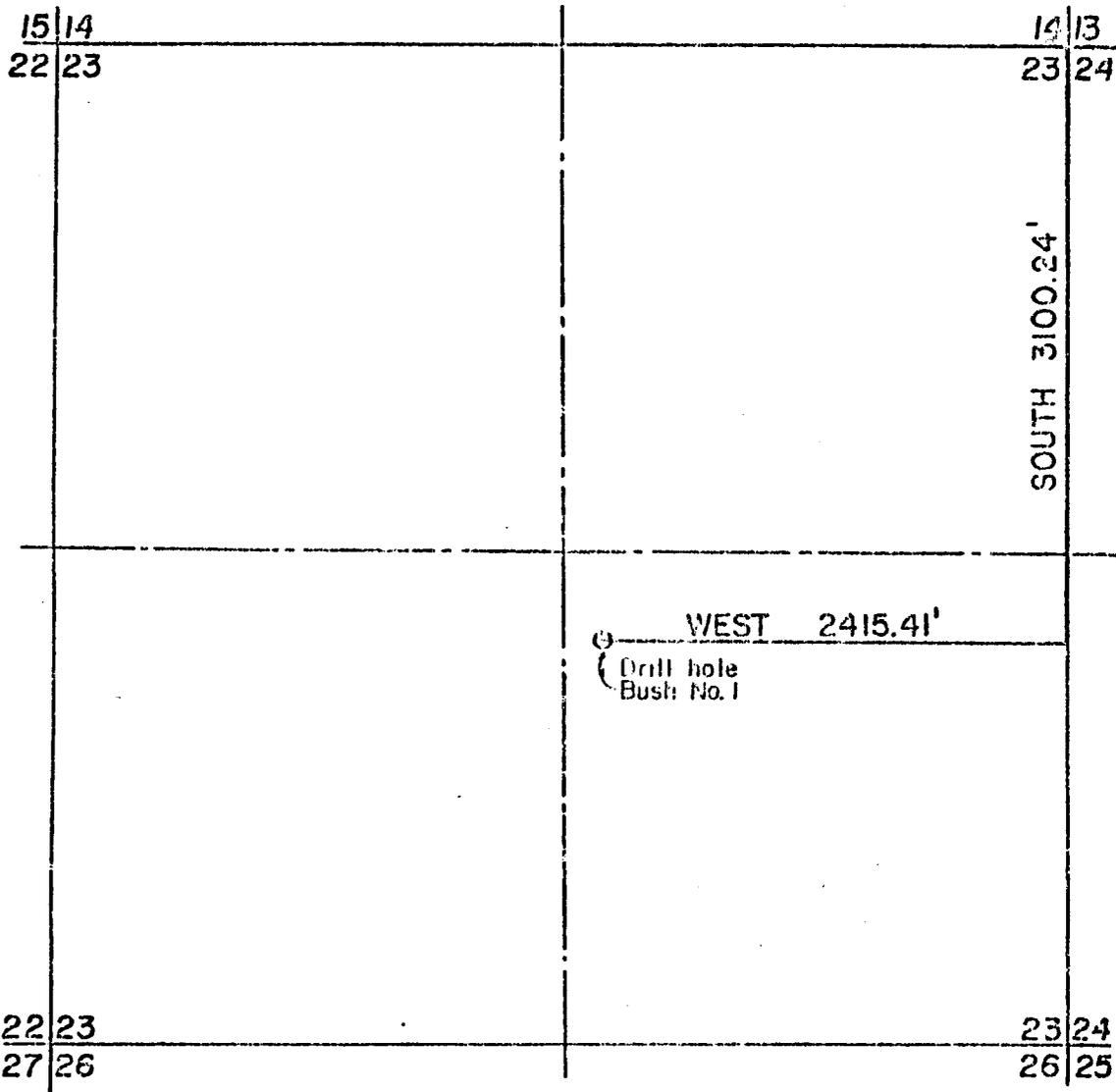
PROPERTY DESCRIPTION:

BUSH No. 1

Located at a point 3100.24 feet South
and 2415.41 feet West of the NE corner
of Section 23, T. 19 S., R. 10 E., SLB&M.

CERTIFICATE

Craig E. Johansen
REGISTERED SURVEYOR,
CRAIG E. JOHANSEN
HOLDING CERTIFICATE NO. 3828, DO HEREBY CERTIFY THAT
THE PLAT SHOWN HEREON HAS BEEN PREPARED FROM A
FIELD SURVEY MADE UNDER MY DIRECTION AND CORRECTLY
SHOWS THE DIMENSIONS AND MONUMENTS OF THE PROP-
ERTY DESCRIBED TO THE BEST OF MY KNOWLEDGE AND
BELIEF. FURTHERMORE, ENCROACHMENTS OF FENCES AND
IMPROVEMENTS ARE SHOWN WITH THE FOLLOWING EX-
CEPTIONS: *none*



| | | |
|---------|----------|-------|
| SECTION | TOWNSHIP | RANGE |
| 23 | 19 S | 10 E |
| DATE | SCALE | CHECK |
| 1-77 | 1"=1000' | |

CRAIG E. JOHANSEN
REGISTERED LAND SURVEYOR
JOHANSEN & DAUER, INC.
GRAND JUNCTION, UTAH

SURVEY FOR
WILLIAM BUSH
319 VIEWPOINT DRIVE
GRAND JUNCTION COLO.

William G. Bush
Well No. Bush #1
NWSE Sec. 23, T. 19 S., R. 10 E.
Emery County, Utah
Lease U-56040

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 William G. Bush 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 UT0756. (Principal - William G. Bush) 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.

File Code 3160

STIPULATIONS

Lease or
Serial No. U-56040

EA Log No. N/A

Project Reentry - Drilling of Bush No. 1 (U-56040)

Applicant William Bush
619 Viewpoint Dr.

Address Grand Junction, CO 81506

BLM Office San Rafael Resource Area

Project T. 19 S., R. 10 E.
Location Section 23, SLB&M

County Emery, Utah

Phone No. 801-637-4584

The following stipulations have been developed to mitigate adverse environmental impacts which may result from the action permitted by the accompanying decision.

1. The holder shall designate a representative who shall have the authority to act upon and to implement instructions from the authorized officer. The holder's representative shall be available for communication with the authorized officer within a reasonable time when construction or other surface-disturbing activities are underway.
2. The holder shall furnish and apply water or use other means satisfactory to the authorized officer for dust control.
3. All persons in the area who are associated with the project will be informed by the holder that they will be subject to prosecution for disturbing archaeological sites or collecting artifacts. If subsurface cultural material is exposed during construction, work at that spot will stop immediately and the BLM, San Rafael Resource Area Office, will be contacted (phone 801-637-4584). The holder will be responsible for the cost of evaluation of the discovery and proper mitigation measures. Any decision as to proper mitigation shall be made by the authorized officer after consulting with the holder.
4. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support construction equipment. If such equipment creates ruts in excess of two inches deep, the soil shall be deemed too wet to adequately support construction equipment.

Wang 1571D

UT-060-1790-3
July 1986

B. Additional Requirements According To Onshore Oil and Gas Order No. 2

- 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 Mike Kaminski of the San Rafael Resource Area, at
(801) 637-4584 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 District Manager. 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

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

December 6, 1989

William G. Bush
619 Viewpoint Drive
Grand Junction, Colorado 81506

Gentlemen:

Re: Bush #1 - NW SE Sec. 23, T. 19S, R. 10E - Emery County, Utah
3100' FNL, 2415' FEL

Approval to re-enter the referenced well is hereby granted in accordance with Rule R615-3-3, Oil and Gas Conservation General Rules, 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.
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.

Page 2
William G. Bush
Bush #1
December 6, 1989

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 43-015-30047.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

lcr
Enclosures
cc: Bureau of Land Management
D. R. Nielson
J. L. Thompson
WE14/3-4



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

Southeastern Area • 453 S. Carbon Avenue • P.O. Box 718 • Price, UT 84501-0718 • 801-637-1303

December 7, 1989

RECEIVED
DEC 11 1989

DIVISION OF
OIL, GAS & MINING

Frontier Drilling Inc.
Attn: William G. Bush
619 Viewpoint Drive
Grand Junction, Colorado 81501

Re: Bush #1 Well
SW4NE4 Section 23, T19S, R10E, SLB&M
Emery County, Utah

Dear Mr. Bush:

This letter will serve as approval for work concerning the construction of the above noted well. The water which you propose to use is under the ownership of the Huntington-Cleveland Irrigation Company, and Mr. Varden Willson has indicated that the proper arrangements have been made. It is my understanding that the work should commence on approximately December 11, 1989, and be completed within one week. The location of the proposed well is more specifically defined as South 3100 ft. & West 2415 ft. from the NE Corner Section 23, T19S, R10E, SLB&M.

If you have any questions concerning this matter, or the involvement of this office, please contact me.

Sincerely,

Mark P. Page
Area Engineer

cc: Division of Oil, Gas & Mining
Attn: Lisha Romero
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Huntington-Cleveland Irrigation Company
Attn: Varden Willson, Secretary
P.O. Box 327
Huntington, Utah 84528

UNIT STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
DEC 13 1989

5. LEASE DESIGNATION AND SERIAL NO.
U. 56040

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.
BUSH # 1/A

10. FIELD AND POOL, OR WILDCAT
WILDCAT

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA
SECTION 23 - T19S - R10E

12. COUNTY OR PARISH | 13. STATE
EMERY | UTAH

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
William G. Bush

3. ADDRESS OF OPERATOR
619 VIEWPOINT DRIVE - GRAND OIL, GAS & MINING CO.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.
See also space 17 below.)
At surface
*NW/SE 3100.24' FROM NORTH LINE
2415.41' FROM EAST LINE
SECTION 23 - T19S - R10E.*

14. PERMIT NO.
43-01530047

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5685 Ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|--|--|--|--|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETION <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/> | CHANGE PLANS <input checked="" type="checkbox"/> | (Other) <input type="checkbox"/> | |

(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.)

After reentering the well & starting to drill out. The cement plugs & piece of cast iron was encountered & could not be penetrated so the well was plugged from 180 to 75 ft. with 18 sacks of cement plus 10 sacks at the surface. The rig 5 feet to the West and start a new well. All conditions of approval will be complied with & no additional location work will be needed.

** See New APD Bush #1-A*

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

SIGNED *William G. Bush* TITLE *Operator* DATE *Dec 4, 1989*

(This space for Federal or State office use)

APPROVED BY */s/ Kenneth V. Rhea* TITLE *ACTING DISTRICT MANAGER* DATE *DEC 11 1989*

CONDITIONS OF APPROVAL, IF ANY

*Approved DNM
12/15/89*

CONDONED

*See Instructions on Reverse Side

UNIT STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
(Other instructions
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

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

RECEIVED
DEC 13 1989

| | |
|--|--|
| 1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> | 5. LEASE DESIGNATION AND SERIAL NO. U-56040 |
| 2. NAME OF OPERATOR William G. Bush | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME |
| 3. ADDRESS OF OPERATOR 619 VIEWPOINT DRIVE - GRAND OIL, GAS & MINING Co. JUNCTION OF R. 8, S. 26 | 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 NW/SE 3100.24' FROM NORTH LINE 2415.41' FROM EAST LINE SECTION 23 - T19S - R10E. | 8. FARM OR LEASE NAME |
| 14. PERMIT NO. 43-015-30047 | 9. WELL NO. BUSH # 1/A |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5685 GROUND | 10. FIELD AND POOL, OR WILDCAT WILDCAT |
| | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 23 T19S - R10E |
| | 12. COUNTY OR PARISH EMERY |
| | 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 <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> | WATER SHUT-OFF <input type="checkbox"/> | REPAIRING WELL <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/> | MULTIPLE COMPLETE <input type="checkbox"/> | FRACTURE TREATMENT <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/> | ABANDON* <input type="checkbox"/> | SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/> |
| REPAIR WELL <input checked="" type="checkbox"/> | CHANGE PLANS <input checked="" type="checkbox"/> | (Other) <input type="checkbox"/> | |

(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.)

After reentering the well & starting to drill out. The cement plug & piece of cast iron was encountered & could not be penetrated so the well was plugged from 180 to 75 ft. with 18 sacks of cement plus 10 sacks at the surface. The rig 5 feet to the West and start a new well. All conditions of approval will be complied with & no additional location work will be needed.

Post-it routing request pad 7664

ROUTING - REQUEST

Please

| | |
|--|---------------------|
| <input type="checkbox"/> READ | To _____ |
| <input type="checkbox"/> HANDLE | Well Completion for |
| <input type="checkbox"/> APPROVE | this PA, is in the |
| and | mail per Bill Bush. |
| <input type="checkbox"/> FORWARD | (Hold in Oct.) |
| <input type="checkbox"/> RETURN | |
| <input type="checkbox"/> KEEP OR DISCARD | |
| <input type="checkbox"/> REVIEW WITH ME | |

Date 12-28-89 From Liske

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

SIGNED William G. Bush TITLE _____

(This space for Federal or State office use)

APPROVED BY /s/ Kenneth V. Rhea TITLE _____

Approved DHM
12/15/89

*See Instruc

Docm

William G. Bush
Well No. Bush #1-A
NWSE Sec. 23, T. 19 S., R. 10 E.
Emery County, Utah
Lease U-56040

CONDITIONS OF APPROVAL

1. Operator is approved to drill the subject well under the Bush #1 well permit. All conditions of approval from the Bush #1 are applicable during drilling, completion, production and plugging phases of the the Bush #1-A.
2. Operator shall be required to circulate cement to surface on both surface and production casing.

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NO.

U-56040

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

U-56040

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

USA

9. WELL NO.

Bush #1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 23
T 19 S - R 10 E

12. COUNTY OR PARISH

Emery

13. STATE

Utah

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other Reentry
b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RESVR. Other Reentry

FEB 05 1990

2. NAME OF OPERATOR
William G. Bush

3. ADDRESS OF OPERATOR
619 Viewpoint Drive Grand Junction, Co. 81506

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 3100 ft. from North Line & 2415 ft. from East Line.
NW/SE
At top prod. interval reported below
At total depth

14. PERMIT NO. 43-015-302 DATE ISSUED 12/4/89

15. DATE SPUDDED 12/4/89 16. DATE T.D. REACHED 12/5/89 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5685' Gr. 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 210' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 210' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN None 27. WAS WELL CORED no

28. CASING RECORD (Report all strings set in well)

| CASING SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|------------------|---------------|
| 7" | 23# | 100' | 10" | 35 sacks | None |
| | | | | | |
| | | | | | |

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)

P & A
75' to 180' - 18 sacks
10 sacks @ surface with Marker.
Moved location 5' West & started
drilling well # Bush-1A

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

| DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED |
|---------------------|----------------------------------|
| | |
| | |
| | |

33. PRODUCTION

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

| DATE OF TEST | HOURS TESTED | CHOKER SIZE | PROD'N. FOR TEST PERIOD | OIL—BSL. | GAS—MCF. | WATER—BSL. | GAS-OIL RATIO |
|--------------|--------------|-------------|-------------------------|----------|----------|------------|---------------|
| | | | | | | | |
| | | | | | | | |

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 William G. Bush TITLE Operator DATE 12/19/89

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 38, 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 | MEAS. DEPTH | TOP | TRUE VERT. DEPTH | | | | | | | | | | | | | | | | |
|---|-----|--------|---|-----------------------------|-------------|-----|------------------|-----|--|-----|-----|------------------|--|--------------|--|---|--|--|--|--|--|--|--|
| <p>37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTING, CUSHION USES, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES</p> | | | | 38. GEOLOGIC MARKERS | | | | | | | | | | | | | | | | | | | |
| | | | <p><i>Refer to logbook well</i></p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td colspan="2" style="text-align: center;">OIL AND GAS</td></tr> <tr><td>DPN</td><td></td></tr> <tr><td>JRB</td><td></td></tr> <tr><td>DTS</td><td>SLS</td></tr> <tr><td><i>H-LCK for</i></td><td></td></tr> <tr><td><i>2-TAS</i></td><td></td></tr> <tr><td colspan="2" style="text-align: center;">MICROFILM <input checked="" type="checkbox"/></td></tr> <tr><td colspan="2" style="text-align: center;">FILE <input checked="" type="checkbox"/></td></tr> </table> | OIL AND GAS | | DPN | | JRB | | DTS | SLS | <i>H-LCK for</i> | | <i>2-TAS</i> | | MICROFILM <input checked="" type="checkbox"/> | | FILE <input checked="" type="checkbox"/> | | | | | |
| OIL AND GAS | | | | | | | | | | | | | | | | | | | | | | | |
| DPN | | | | | | | | | | | | | | | | | | | | | | | |
| JRB | | | | | | | | | | | | | | | | | | | | | | | |
| DTS | SLS | | | | | | | | | | | | | | | | | | | | | | |
| <i>H-LCK for</i> | | | | | | | | | | | | | | | | | | | | | | | |
| <i>2-TAS</i> | | | | | | | | | | | | | | | | | | | | | | | |
| MICROFILM <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | |
| FILE <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | | | | | | | | |