

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED 4-22-86

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-18134 INDIAN _____

DRILLING APPROVED: 7-9-86

SPUDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: 6022' gr

DATE ABANDONED: LAD 7-27-87

FIELD: BUZZARD BENCH

UNIT: ORANGEVILLE

COUNTY: EMERY

WELL NO. ORANGEVILLE FEDERAL UNIT 1-12 API #43-015-30227

LOCATION 2073' FSL FT. FROM (N) (S) LINE. 572' FWL FT. FROM (E) (W) LINE. NW SW 1/4 - 1/4 SEC. 1

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
19S	7E	1	BWAB INCORPORATED				



April 21, 1986

RECEIVED
APR 22 1986

State of Utah
Oil, Gas & Mining
355 W. North Temple
3 Triad Center, Suite 350
Salt Lake City, UT 84180-1203

DIVISION OF
OIL, GAS & MINING

RE: Orangeville Fed Unit 1-12
NWSW Sec 1-T19S-R7E
Emery County, UT

Orangeville Fed Unit 11-11
NESW Sec 11-T19S-R7E
Emery County, UT

Gentlemen:

Enclosed herewith please find two (2) copies each of the Application To Drill for the above captioned wells. I have also enclosed:

- 2 - 10 Point Programs
- 2 - 13 Point Programs
- 2 - Survey Plats
- 2 - Proposed Location Maps
- 2 - Topographic Maps
- 2 - Blowout Preventer Diagrams
- 2 - Designation of Agent Forms

If the above forms meet with your approval, please sign and return one (1) copy each of the approved copies to me for our files. If you require additional information, please contact Mr. John R. Keller at the letterhead phone or address.

Very truly yours,

BWAB Incorporated

Susan M. Rein
Production Assistant

smr

Enclosures

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

(Other instructions on reverse side)

12

5. Lease Designation and Serial No.
U-18134

6. If Indian, Allottee or Tribe Name
n/a

7. Unit Agreement Name
Orangeville Unit

8. Farm or Lease Name

Orangeville Federal Unit

9. Well No.
1-12

10. Field and Pool, or Wildcat

Wildcat BUZZARD BENCH

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

Sec 1-T19S-R7E

12. County or Parrish 13. State

Emery County, 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

BWAB INCORPORATED

3. Address of Operator

1801 California Street, Suite 1000, Denver, CO 80202

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

At surface
572' FWL and 2,073' FSL of Section 1 (NW SW)

At proposed prod. zone
same

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

Approximately 3.75 miles SW of Orangeville, Utah

15. Distance from proposed* location to nearest property or lease line, ft.

(Also to nearest drlg. line, if any) **572'**

16. No. of acres in lease

1,480.44

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.

2500'

19. Proposed depth

2,310'

20. Rotary or cable tools

Rotary

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

6,022' GR

22. Approx. date work will start*

July 1, 1986

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12-1/4"	8-5/8"	24#	120'	125 sx
7-7/8"	4-1/2"	10.5#	2310'	100 sx

1. Drill to surface casing setting depth and set 8-5/8" surface casing.
2. Drill to the top of Ferron at approximately 1,960'.
3. Set 4-1/2" casing.
4. Drill into the Ferron zone with air using a completion unit.
5. Complete well open hole.

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

DATE: 7-9-86
BY: John R. Bay
WELL SPACING: 203

RECEIVED
APR 22 1986

DIVISION 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 John R. Keller Title Production Superintendent Date April 18, 1986
(This space for Federal or State office use)

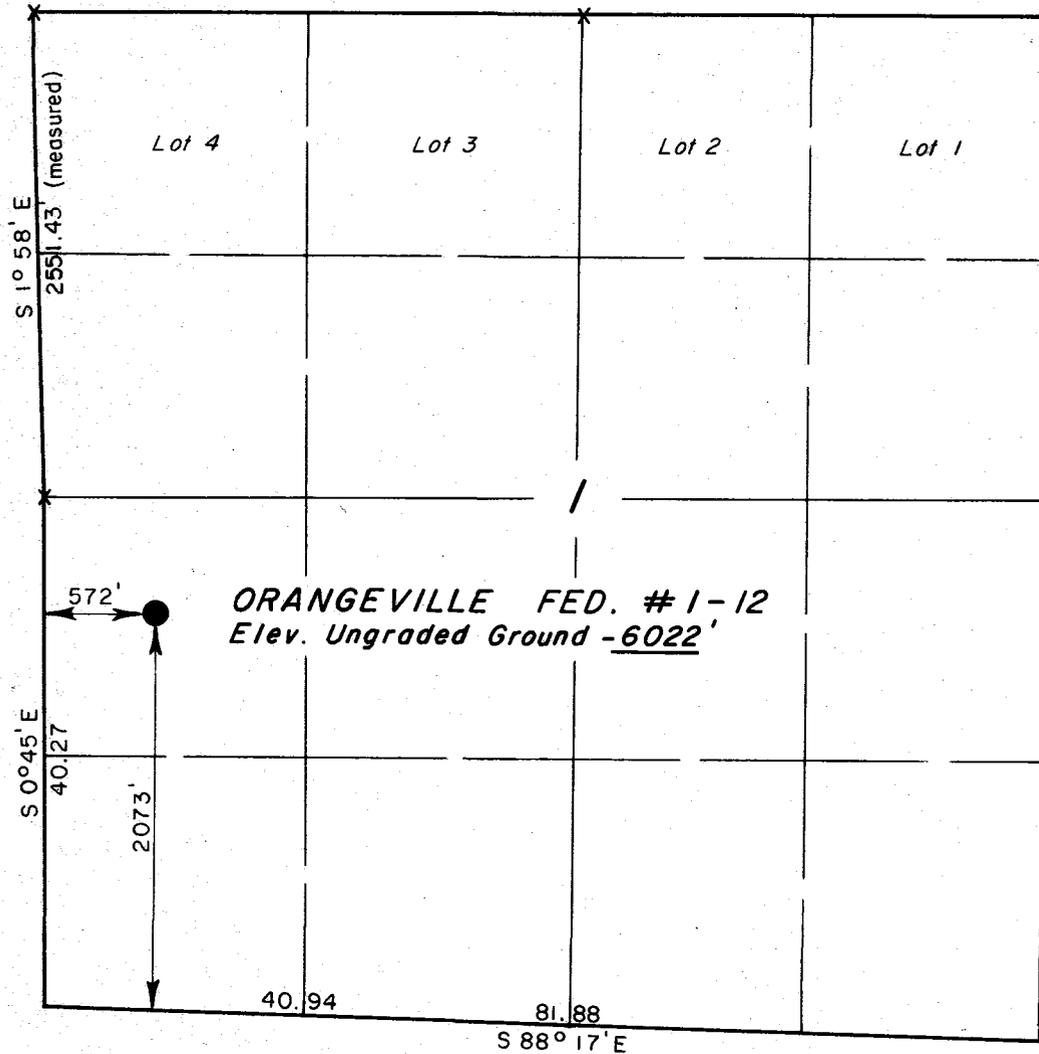
Permit No. 43-015-30227 Approval Date _____

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

T 19 S , R 7 E , S.L.B. & M.

PROJECT
BWAB INC.

Well location, *ORANGEVILLE FED. #1-12*, located in the NW 1/4 SW 1/4, Section 1, T 19 S, R 7 E, S.L.B. & M., Emery County, Utah.



X = Located Section Corners



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	3/11/86
PARTY	DA JF RB DLS	REFERENCES	GLO
WEATHER	FAIR	FILE	BWAB

DESIGNATION OF AGENT

The undersigned is, on the records of the Bureau of Land Management, Unit Operator under the Orangeville unit agreement, Emery County, Utah, No. 14-08-0001-20388 approved March 25, 1982 and hereby designates:

NAME: BWAB INCORPORATED
ADDRESS: 1801 California Street
Suite 1000
Denver, Colorado 80202

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing, and completing unit well No. Federal 1-12 in Section 1: NW $\frac{1}{4}$ SW $\frac{1}{4}$, T19S, R7E, Emery County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

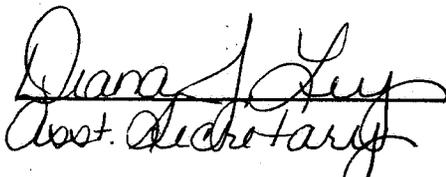
In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the Chief, Branch of Fluid Minerals, of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

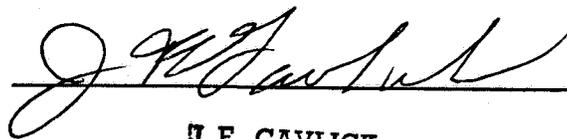
This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the Bureau of Land Management a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative actions requiring specific authorization of the Unit Operator.

ATTEST:


Asst. Secretary

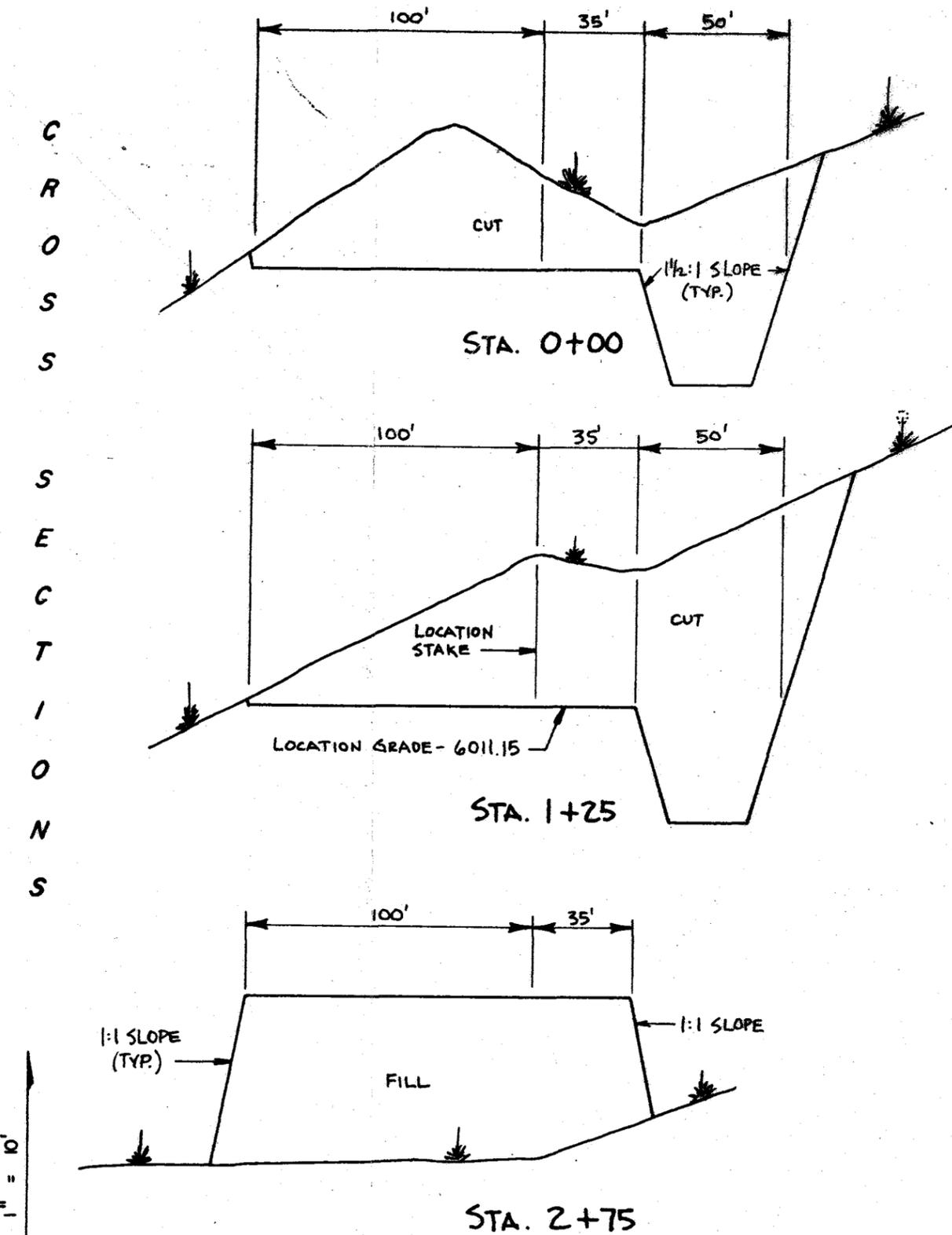
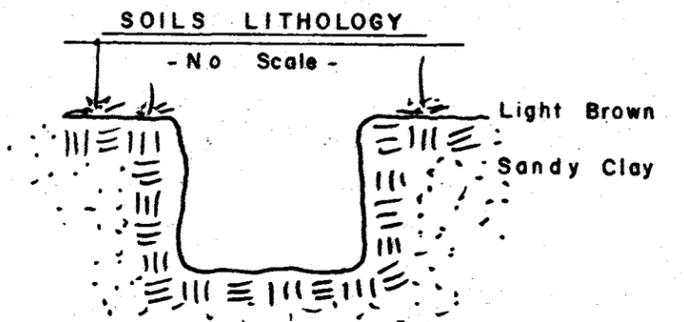
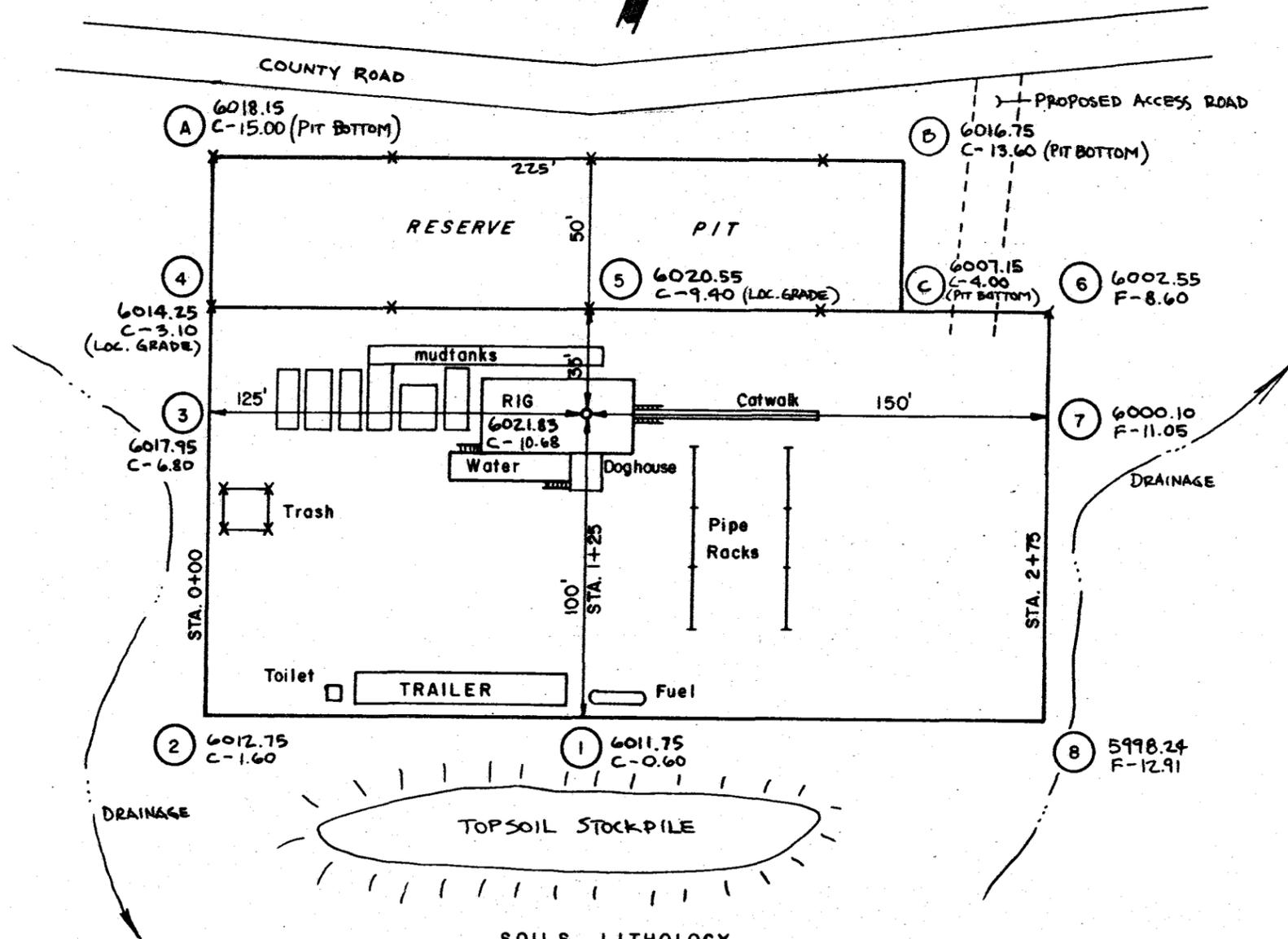
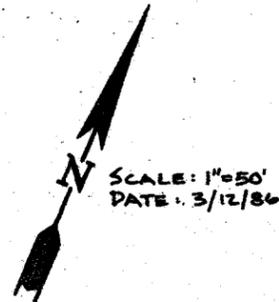
Orangeville Federal Unit 1-12
NWSW Section 1-T19S-R7E
Emery County, Utah

CHANDLER & ASSOCIATES, INC.



J. F. GAVLICK
VICE PRESIDENT

BWAB INC.
ORANGEVILLE FED. #1-12



SCALES
1" = 50'

APPROX. YARDAGES

Cubic Yards Cut = 15129.40
 Cubic Yards Fill = 3539.69
 UNBALANCE AFTER 20% COMPACTION = 10881.77

BWAB, INC.

PROPOSED LOCATION

ORANGEVILLE FED. # 1-12

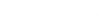
TOPO. MAP

SCALE 1:100 000

1 CENTIMETER ON THE MAP REPRESENTS 1 KILOMETER ON THE GROUND

CONTOUR INTERVAL 50 METERS

SUPPLEMENTARY CONTOUR INTERVAL 25 METERS

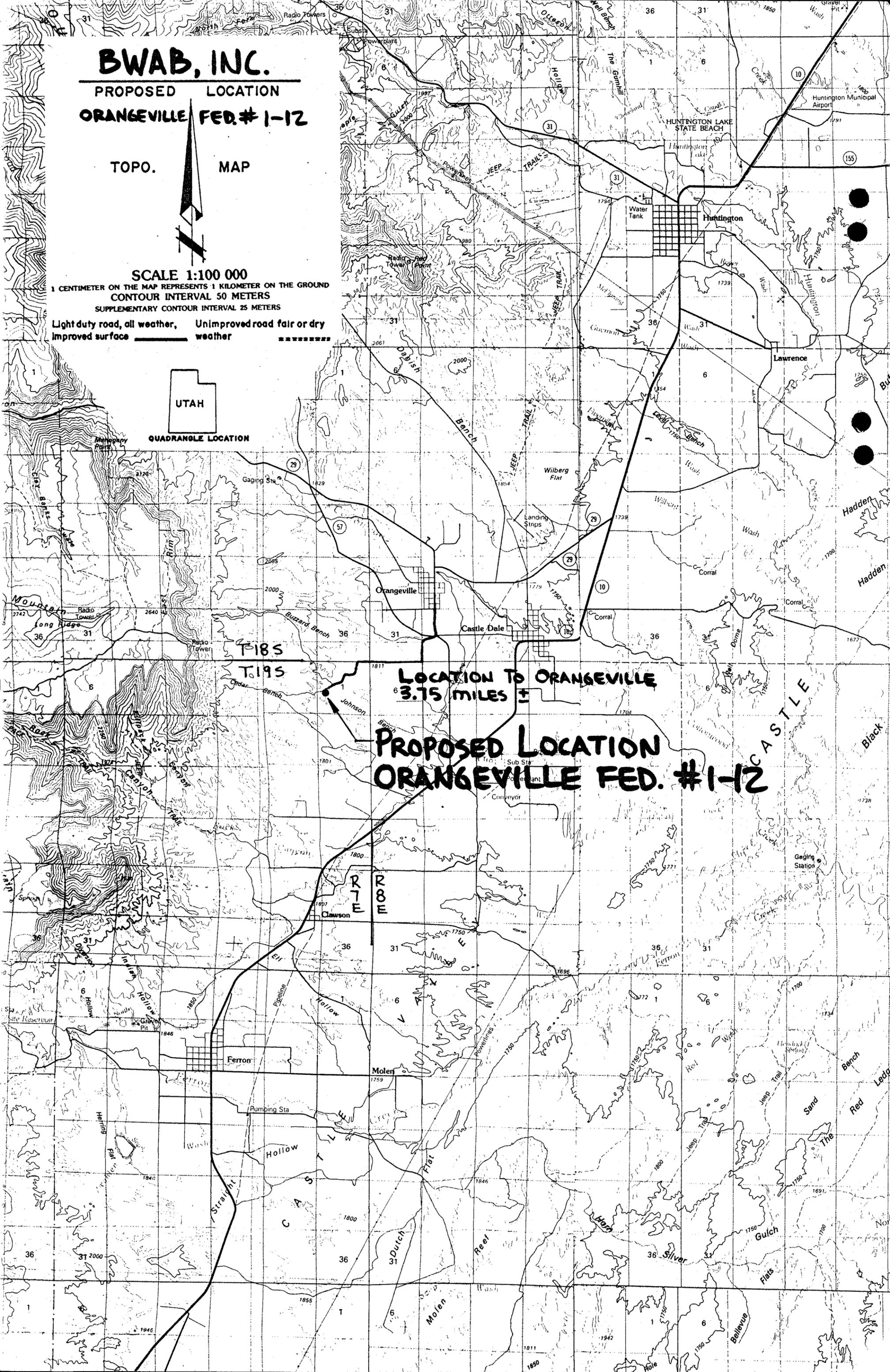
Light duty road, all weather, improved surface  Unimproved road fair or dry weather 

UTAH

QUADRANGLE LOCATION

LOCATION TO ORANGEVILLE
3.75 MILES E

PROPOSED LOCATION
ORANGEVILLE FED. # 1-12





Bureau of Land Management
Moab District Office
P. O. Box 970
Moab, UT 84532

RE: 10 Point Program
Orangeville Federal Unit 1-12
NWSW Section 1-T19S-R7E
Emery County, Utah

Gentlemen:

Enclosed is the additional information required for permitting the above well.

1. Surface Formation: Emery
2. Geological Markers: Bluegate Shale - Surface
Ferron 1,960'
3. Producing Formations: Ferron - Gas
4. Expected Water Zones: Ferron
5. Pressure Control Equipment: 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 prevent 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 insure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure-tested before drilling casing plugs. The Resource Area will not be notified in advance when pressure tests are to be conducted. The BOP will be: a) Shaffer 10" 900 double hydraulic with Payne closing unit. One set rams blind and one set 4" drill pipe; b) 10" 900 rotary head for use while air or mist drilling. Schematic diagram attached. The BOP test pressure will be 1500 psi.
6. Circulating Medium: Well will be drilled with compressed air and mist if required. Mud up will occur for running casing only. Blooie line will be misted to reduce fugative dust when air drilling.



7. Auxiliary Equipment:

- a. Drill String Floats will be used
- b. Float will be used
- c. No monitoring on mud system will be used for drilling
- d. Stabbing valve will be used for drill pipe

8. Casing Program

Surface - 8-5/8", 24#, J or K-55, new or used
Production - 4-1/2", 10.5#, J or K-55, new or used

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

9. Testing Program:

No DST's will be run.
No cores are anticipated.
DIL-GR
CNL-GR

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 discription, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the Moab District Manager.

10. Abnormal Conditions
Possible Hazzards

No abnormal high pressure, temperature or hydrogen sulfide gas should be encountered. Productive Zone is Normal is pressure and gas analyses indicate no H₂S hazzard.

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 #1 and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

Anticipated Starting Dates and Notification of Operations:

The Operator will contact the San Rafael Resource Area at (801) 637-4584, forty-eight (48) hours prior to beginning any dirt work on this locations.



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.

Anticipated Starting Dates and Notification of Operations:

The spud date will 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 #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. The 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 the requirements of NTL-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 notifications 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 with the prior approval of the District Manager. If the case of a newly drilled dry hole 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.



Anticipated Starting Dates and Notification of Operations:

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", and "lease number".

Estimated Starting Date is July 1, 1986 with operations being conducted for 30 days.

Please notify us if any additional information is necessary for the permitting for this well.

Respectfully,

BWAB Incorporated

A handwritten signature in black ink, appearing to read "Robert C. Arman" or similar, written over the typed name.

John R. Keller
Production Superintendent

JRK/smr

Attachments

1. EXISTING ROAD

See attached Topographic Map "A".

To reach the BWAB Incorporated well location site Orangeville Federal Unit 1-12, located in the NW 1/4 SW 1/4, Section 1, T19S-R7E, Emery County, Utah;

Proceed southerly out of Orangeville, Utah on the Main Street approximately 1 mile to its junction with Utah State Highway 57. From the intersection follow the improved dirt road trending south-westerly approximately .25 miles then south .4 miles to an intersection with an improved dirt road going due west. Proceed west on the dirt road approximately 1.2 miles to its intersection with an existing lease road trending south, then southwesterly. Follow this lease road approximately .65 mile to location entry. Approximately 50' of new road will have to be constructed into the location.

The Utah State highway mentioned above is a bituminous surfaced road and is maintained by the Utah State road crews. The trail and exploration roads mentioned above will be maintained by BWAB Incorporated.

The roads that are required for access during the drilling phase, completion phase and production phase of this well will be maintained to insure proper travel both entering and leaving the area. This may require some minor grader work for smoothing of the road bed.

2. PLANNED ACCESS ROAD

See Topographic Map "B".

The access road after improvement will be an 18' crown road (9' either side of the centerline) with a drain ditch on the uphill side of the road which will handle any run-off from normal meteorological conditions that are prevalent to the area.

The grade along this road is relatively level and the maximum grade along this road will not exceed 10%.

Culverts will be placed where necessary when the road is improved after production is established. The BLM will be consulted on the proper placement of culverts.

The Operator or his Contractor will contact the Surface Protection Specialist at the San Rafael Resource Area Office in Price, Utah, phone (801) 637-4584, forty-eight (48) hours prior to beginning any work on public land.

The dirt contractor will be furnished with an approved copy of the surface use plan and any additional BLM stipulations prior to any work.

If subsurface cultural material is exposed during construction, work in that spot will stop immediately and the San Rafael Resource Area Office will be contacted. All employees working in the area will be informed by the Operator that they will be subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will only be done if damage occurs.

If the Archaeological Study shows it necessary the BLM should be present when the dirt work on the access road commences.

Improvement to the existing road will be necessary. The upgrading will conform to the Class III road standards after production is established. The County Road Department will be contacted before using any known County road. Contact Mr. Rex Funk (801) 381-5450 or (801) 381-2550.

New road construction will be in conformance to the Class III road standards after production is established. All roads will be constructed with drainage dips (water bars) as detailed in the road standards. All turn outs and water bars will be flagged by BLM personnel.

Trees will be piled along side of access road.

Topsoil will not be saved along the route.

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

Surfacing material will not be placed on the access road or location without prior BLM approval as to the type of material used.

3. EXISTING WELLS

See Topographic Map "B".

There are two existing BWAB Incorporated shut-in gas wells within a one mile radius of this location site and one shut-in gas well belonging to Chandler and Associates.

There are no other known producing wells, water wells, abandoned wells, temporarily abandoned wells, disposal wells, drilling wells, shut-in wells, injection wells, monitoring or observations wells for other resources located within a one mile radius of this location site.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

At the present time there are no BWAB Incorporated production facilities, gas gathering lines, tank batteries, oil gathering lines, injection lines or disposal lines within a one mile radius of the location with the exception of BWAB's shut-in gas wells in the NENE of Section 11 and the NWNW of Section 1.

There is also a shut-in Chandler and Associates gas well located in the NWSE of Section 2. All of the above mentioned wells are in T19S-R7E, Emery County, Utah.

The area used to contain the proposed production facilities will be built using native materials. If these materials are not acceptable then other arrangements will be made to acquire them from private sources. These facilities will be constructed using bulldozers, graders and workman crews to construct and place the proposed facilities.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION AND TYPE OF WATER SUPPLY

Water to be used for the drilling of this well will be hauled by truck over the described roads in Items #1 and #2 from Cottonwood Creek which is approximately 4 miles northeast of the proposed location, it will be obtained from the Cottonwood Irrigation Co.

There will be no water well drilled at this location site.

If in the event water from the above mentioned source is not available, then other arrangements will be made and all concerned agencies will be notified.

Use of water from sources such as wells, springs, streams, or stock ponds for activities associated with this well will be approved, prior to use, by the agency or individual holding the water right (i.e. State of Utah).

6. SOURCE OF CONSTRUCTION MATERIALS

All construction material for this location site shall be borrow material accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time, but if they are required, the appropriate actions will be taken to acquire them from private sources. All surface disturbance is on BLM lands.

7. METHODS OF HANDLING WASTE DISPOSAL

See the attached Location Layout Sheet.

A reserve pit will be constructed.

The reserve pit will be approximately 8' deep and at least one half of this depth shall be below the surface of the existing ground.

One half of the reserve pit will be used as a fresh water storage area during the drilling of this well and the other half will be used to store non-flammable materials such as cuttings, salts, drilling fluids, chemicals and produced fluids, etc.

If deemed necessary by the agencies concerned to prevent contamination to surrounding areas, the reserve pits will be lined with native clay or other suitable liner material.

The pits will have a 39" net wire fence with one barbed wire strand on top and over-head flagging will be installed, if oil is on the pit, to protect the water fowl, wildlife and domestic animals.

As stated in the aforementioned paragraphs, non-flammable materials such as cuttings, salts and drilling fluids will be contained in the reserve pits.

At the onset of drilling, the reserve pit will be fenced on three sides and at the time drilling activities are completed, it will be fenced on the fourth side and allowed to dry completely prior to the time that backfilling and other reclamation activities are attempted.

When the reserve pit dries and reclamation activities commence, the pits will be covered with a minimum of four feet of soil if practical and all requirements in Item #10 will be followed.

All produced water, if any, will be disposed of according to NTL-2B requirements.

All garbage and other waste material will be contained in a trash basket made of small mesh wire and will be taken to the nearest sanitary landfill for disposal upon completion of the well.

A portable chemical toilet will be provided for human waste.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. WELL SITE LAYOUT

See the attached Location Layout Sheet.

The BLM District Office shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #7, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with native clay and any other type of material necessary to make them safe and tight.

When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

If well goes on production, the Holder shall submit a proposed operation and maintenance plan for the permanent road after consultation with the BLM Authorized Officer for applicable road standards.

The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed in the methods described in the rehabilitation section. Adequate topsoil will be retained for final reclamation of the location. Any remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

All above-ground production facilities will be painted with a flat, non-contrasting color harmonious with the adjacent landscape.

As there is some topsoil on the location site, the top 6" shall be stripped and stockpiled separately from the trees on the south side of the location. (See location layout sheet). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area.

Any drainages re-routed during construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the pits shall be buried with a minimum of 4' of cover where practical.

As mentioned in Item #7, the reserve pits will be completely fenced with wire and overhead flagging installed if there is oil in the pits, and the pits allowed to dry completely before covering. All items mentioned above will be completed within 90 days after commencement of restoration procedures if weather conditions permit.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the BLM District Office when the moisture content of the soil is adequate for germination. The Lessee further agrees that all said clean-up and restoration activities shall be done and performed in a diligent and workman like manner and in strict conformity with the above mentioned items #7 and #10, and the Oil and Gas Surface Operating Standards Manual.

Immediately upon completion of drilling, the location and surrounding area will be cleared of all debris resulting from the operations. All trash will be hauled to a local sanitary landfill.

The Operator or his Contractor will contact the Surface Protection Specialist at the San Rafael Resource Area BLM office in Price, UT phone (801) 637-4584, 48 hours prior to starting rehabilitation work that involves earthmoving equipment and upon completion of restoration measures.

Before any dirt work to restore the location takes place, the reserve pit must be completely dry and any trash (barrels, metal, etc.) it contains must be removed from public lands.

All disturbed areas will be recontoured to blend as nearly as possible with the surrounding area.

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

All disturbed areas will be scarified with the contour to a depth of 6". Do not smooth pads, leave a roughened surface.

Seed will be (broadcast/drilled) at a time to be specified by the BLM with the attached seed prescription. When broadcast seeding, a harrow or some such implement will be dragged over the seeded area to assure seed cover.

2 lbs/acre Indian ricegrass (Oryzopsis hymenoides)
1/2 lbs/acre Fourwing saltbush (Artiplex canescens)
1/2 lbs/acre Green ephedra (Ephedra viridis)
1 lbs/acre Crested wheatgrass (Agropyron desertorum)
1 lbs/acre Alkali sacaton (Sporobolus airoides)
1/2 lbs/acre Shadscale (Atriplesertifolia)
2 lbs/acre Curlygrass (Hilaria jamesii)
2 lbs/acre Sweet yellow clover

After seeding is complete, the stockpiled tress will be scattered evenly over the disturbed areas and walked down with a dozer. The access will be blocked to prevent any use/vehicle use.

Waterbars will be used on all sloping surfaces as shown below:

<u>GRADE</u>	<u>SPACING</u>
2%	200 feet spacing
2-4%	100 feet spacing
4-5%	75 feet spacing
+5%	50 feet spacing

11. OTHER INFORMATION

The topograph of the General Area - See Topographic Map

The area slopes from the Manti - Lasal Forest to the west to the Castle Valley to the east. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates and shale deposits.

The soils in this semi-arid area of the Williams Fork Formation (Upper Cretaceous) and Wasatch Formation (Eocene) consist of light brownish-gray clays (OL) to sandy soil (SM-ML) type with poorly graded gravels.

Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area.

The topsoils in the area range from a sandy clay (SM-ML) type soil to a clayey (OL) soil.

The majority of the numerous washes and draws in the area are of non-perennial nature flowing during the early spring run-off and heavy rain storms of long duration which are rare as the normal annual rainfall in the area is only 10".

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area are common of the semi-arid regions and consists of pine and oak brush as the primary flora with areas of sagebrush, rabbitbrush, greasewood, some grasses and cacti.

The fauna of the areas is sparse and consists predominantly of the mule deer, coyotes, bears, rabbit and varieties of small ground squirrels and other types of rodents.

The birds of the area are raptors, finches, ground sparrow, magpies, crows and jays.

The area is used by man for primary purpose of grazing domestic livestock.

The Topography of the Immediate Area - See Topographic Map

The Orangeville Federal Unit 1-12 is located on an eroded sloping terrace knob at the base of Cedar Bench.

The ground slopes through this location site at approximately a 6.5% grade towards the south, north and east. The majority of the drainages are non-perennial. Drainage is to the northeast into South Wash.

The geologic structure of the area immediately surrounding the location site is of the Williams Fork Formation and consists of light brown sandy clay soil with some sandstone outcrops.

The vegetation in the immediate area surrounding the location site is predominantly sagebrush and grasses, with some juniper and pinion pine.

All land disturbed by this location site and road are under BLM jurisdiction.

There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location site. It will be determined by an archaeologist whether there are any archaeological findings in the area.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

BWAB INCORPORATED
1801 California Street
Suite 1000
Denver, CO 80202

Mr. John R. Keller
(303) 295-7444
(303) 755-6181 (Home)

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with the operation proposed herein will be performed by BWAB INCORPORATED and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

April 21, 86
Date

Robert C. Aronson
John R. Keller
Production Superintendent
BWAB Incorporated

JRK/smr

Attachments

Cultural Resources Inventory Report
on
Proposed Orangeville Fed. 1-12 and 11-11 Wells and Related Access
in Emery County, Utah
for
BWAB, Inc.

GRI Project No. 8605

18 March 1986

Prepared by

Grand River Institute

P. O. Box 3543

Grand Junction, Colorado 81502

Utah BLM Antiquities Permit No. 85-UT-54939

Utah Division of State History Permit No. U-86-GB-137B

Submitted to

The Bureau of Land Management

Moab District Office

P.O. Box 970

Moab, Utah 84532

U.S.
Department of the Interior
Bureau of Land Management
Utah State Office

Summary Report of
Inspection for Cultural Resources

Project Authorization No. _____
Report Acceptable Yes 4 No _____
Mitigation Acceptable Yes _____ No _____
Comments: _____

1. Report Title Orlaineville Field 11-12 & 11-11

2. Development Company BWAB, Inc., Denver, Colorado

3. Report Date 3/11/86 4. Antiquities Permit No. U-86-GB-137B
41 MONTHS 43 YEAR 46 85-UT-54939

5. Responsible Institution Gland River Hills County Emery

6. Fieldwork Location: TWN 19S Range 7E Section(s) 11 11 14
62 63 66 69 70 71 72 73 74 75 76 77
TWN _____ Range _____ Section(s) _____
78 81 82 85 86 87 88 89 90 91 92 93
7. Resource Area PIR TWN _____ Range _____ Section(s) _____
110 III 94 97 98 101 102 103 104 105 106 107 108 109

PO: PONY EXPRESS, BR: BEAR RIVER, PR: PRICE RIVER, WS: WARM SPRINGS
BC: BOOK CLIFFS, HR: HOUSE RANGE, SF: SEVIER RIVER
HM: HENRY MOUNTAINS, BE: BEAVER RIVER, DX: DIXIE
KA: KANAB, ES: ESCALANTE, SJ: SAN JUAN, GR: GRAND
SR: SAN RAFAEL, DM: DIAMOND MOUNTAIN
FW in spaces 65, 69, 81, 85, 97, 101 Only if:
V=Vernal Meridian
H=Half Township

8. Description of Examination Procedures:
A 100% pedestrian survey of each of the proposed two wells was made by walking a pattern of concentric circles around the center stake to a diameter of approx. 750'. The proposed access to Fed. 11-11 was walked in two zigzag transects to cover a swath 200' wide.

9. Linear Miles Surveyed and/or 1.8 10. Inventory Type I
112 117 130
Definable Acres Surveyed and/or 210
118 123
* Legally Undefinable Acres Surveyed _____
(* A parcel hard to cadastrally locate i.e., center of section)

R = Reconnaissance
I = Intensive
S = Statistical Sample

11. Description of Findings (attach appendices, if appropriate) 12. Number Sites Found: 0
131 135
No cultural resources were identified.

13. Collection: N Y=Yes, N=No
135

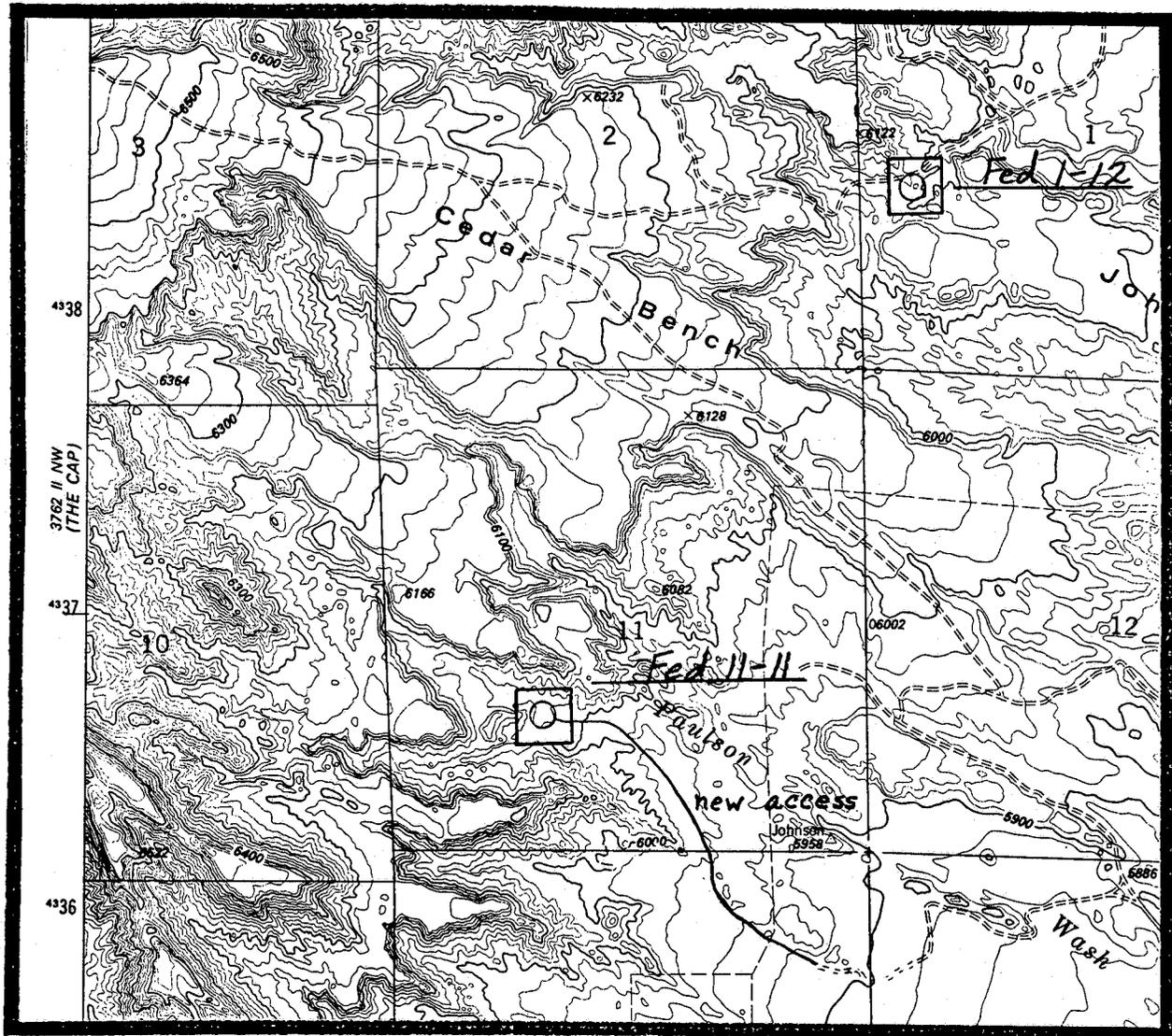
14. Actual/Potential National Register Properties Affected:
None.

15. Literature Search, Location/Date: BLM Price Area Office, 3/17/86
Division of State History, 3/14/86

16. Conclusion/Recommendations:
No further consideration of cultural resources need be given the surface extent of this project.

17. Signature of Administrator & Field Supervisor: Administrator Carl E. Conner Carl E. Conner

Field Supervisor Carl E. Conner Carl E. Conner



Castle Dale Quadrangle
 Utah--Emery County
 1983
 USGS 7.5' series (topographic)
 Scale 1:24000
 Contour interval 20 feet
 T. 19S., R. 7E.

Cultural resources inventory of proposed Orangeville Federal 1-12 and 11-11 and related new access in Emery County, Utah, for BWAB, Inc. Areas surveyed for cultural resources are indicated. [GRI 8605, 3/18/86]

071016

OPERATOR BWAB Inc DATE 4-24-86

WELL NAME Orangerville Fed. Unit 1-12

SEC NW 1/4 T 19S R 7E COUNTY Carney

43-015-30227
API NUMBER

Fed
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Unit Well - POD approved 7/8/86

Need water permit

APPROVAL LETTER:

SPACING:

203

Orangerville
UNIT

302

CAUSE NO. & DATE

302.1

STIPULATIONS:

1- Water



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

July 9, 1986

BWAB Incorporated
1801 California Street, Suite 1000
Denver, Colorado 80202

Gentlemen:

Re: Well Name: Orangeville Federal Unit 1-12 - NW SW Sec. 1, T. 19S, R. 7E
2073' FSL, 572' FWL - Emery County, Utah

Approval to drill the referenced well is hereby granted in accordance with Section 40-6-18, Utah Code Annotated, as amended 1983; and predicated on Rule 203, Oil and Gas Conservation General Rules, subject to the following stipulations:

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:

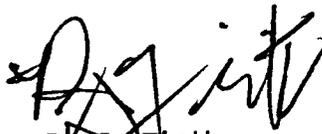
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2
BWAB Incorporated
Well Name: Orangeville Federal Unit 1-12
July 9, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at each drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
6. 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 43-015-30227.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals
D. R. Nielson

8159T

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

071801

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
 BWAB Incorporated (303) 295-7444

3. ADDRESS OF OPERATOR
 1801 California Street, Suite 1000, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 572' FWL and 2,073' FSL of Section 1 (NW SW)
 At proposed prod. zone
 same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approximately 3.75 miles SW of Orangeville, Utah

16. NO. OF ACRES IN LEASE
 1,480.44

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.
 2500'

19. PROPOSED DEPTH
 2310'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6,022' GR

22. APPROX. DATE WORK WILL START*
 July 1, 1986

5. LEASE DESIGNATION AND SERIAL NO.
 U-18134

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
 Orangeville Unit

8. FARM OR LEASE NAME
 Orangeville Federal Unit

9. WELL NO.
 #1-12

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec 1-T19S-R7E

12. COUNTY OR PARISH
 Emery

13. STATE
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	120'	125 SX
7-7/8"	4-1/2"	10.5#	2310	100 SX

RECEIVED
 JUL 16 1986

DIVISION 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 John R. Keller TITLE Production Superintendent DATE April 18, 1986
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____
 APPROVED BY Kenneth V. Rhea TITLE Acting DISTRICT MANAGER DATE JUL 11 1986
 CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

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

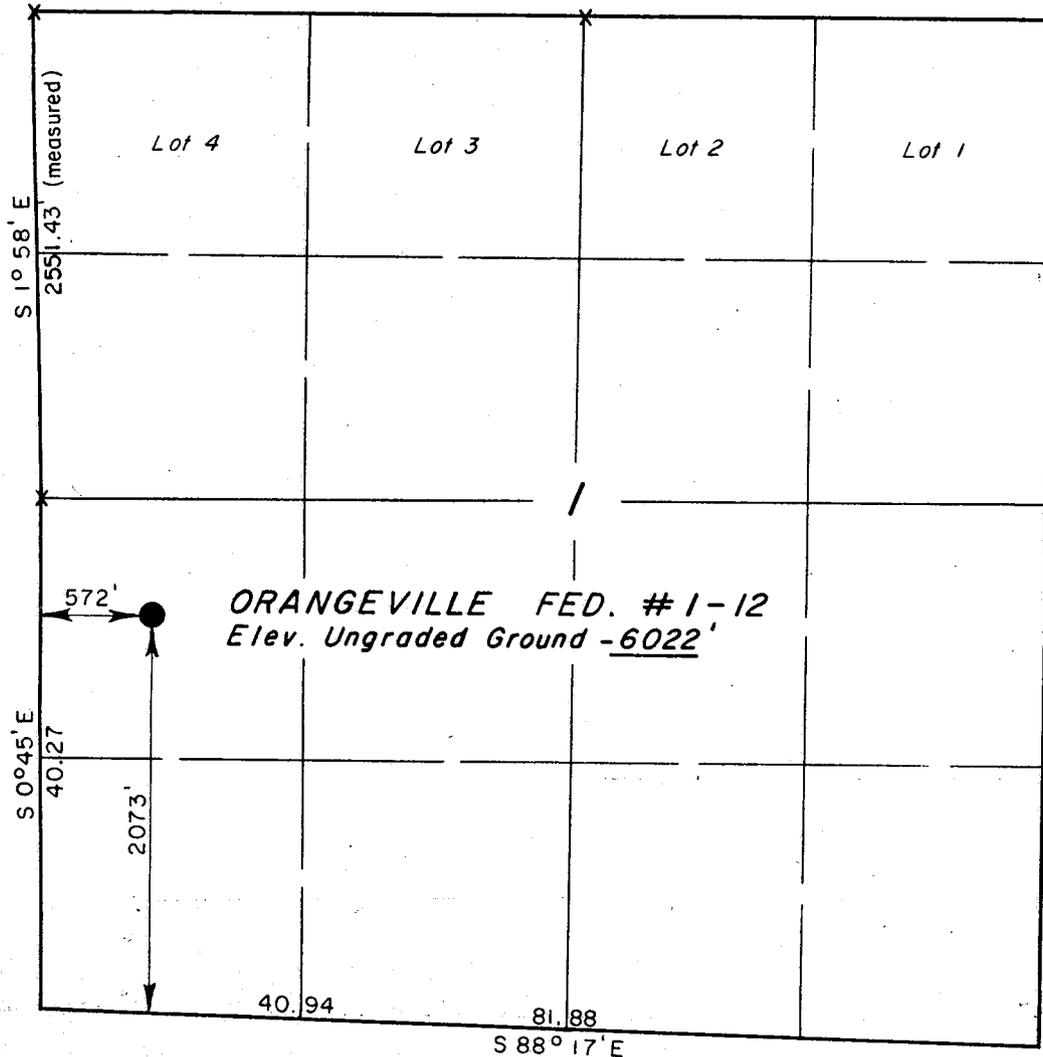
*See Instructions On Reverse Side

State of Wash. DOOM

T 19 S , R 7 E , S.L.B. & M.

PROJECT
BWAB INC.

Well location, *ORANGEVILLE FED.*
1 - 12, located in the NW 1/4
SW 1/4, Section 1, T 19S, R 7E,
S.L.B. & M., Emery County, Utah.



X = Located Section Corners



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

[Signature]

REGISTERED LAND SURVEYOR
REGISTRATION NO 2454
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P. O. BOX Q - 85 SOUTH - 200 EAST
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	3/11/86
PARTY	DA JF RB DLS	REFERENCES	GLO
WEATHER	FAIR	FILE	BWAB

BWAB Incorporated
Well No. Orangeville Federal Unit 1-12
NWSW Sec. 1, T. 19 S., R. 7 E.
Emery County, Utah
Lease U-18134

CONDITIONS OF APPROVAL

B. SURFACE USE PLAN

The operator or his contractor shall contact the Surface Protection Specialist of the San Rafael Resource Area Office in Price, Utah, phone (801) 637-4584, 12 hours in advance when running casing strips and cement.

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

The operator shall make every reasonable effort to avoid or minimize dust problems. The Authorized Officer may require sprinkling or other means of dust control on the road, or during drilling operations. Any dust control measures required shall be continued for as long as necessary to effect control during the life of the project. These measures shall include, where necessary, sprinkling with water or similar actions at construction sites and project facilities.

If water is encountered during drilling, the type of water and the amount of water must be reported to the State and to us. All State stipulations must be adhered to regarding water and water rights.

No lining for the reserve pits will be required. However, if the pit is shown to be leaking at any time, some type of seal will be required immediately.

Since the well pad and access route are located in critical deer winter range, it is suggested that drilling not be conducted between November 15 and May 1.

As a result of this well being located in identified critical wildlife winter range, if the well is completed for production, that portion of the pad and access road needed for production operations will be tabulated and added to overall acreage taken out of critical habitat by unit operations. At such time the cumulative impacts exceed 10 acres, the Authorized Officer may request a meeting with the Unit Operator to discuss the potential for habitat enhancement within the critical winter range in order to mitigate cumulative habitat loss. Such mitigation to be mutually agreed upon by the Authorized Officer and Unit Operator and may involve construction of wildlife reservoirs, guzzlers, reseeds, etc.

Mitigation of impacts to critical deer winter range will be provided for in the event of a production well (i.e., mufflers on motors, etc.). Actual mitigating measures will be developed by the Authorized Officer, BLM, upon notification by the operator.

Your contact with the District Office is:

Greg Noble , Petroleum Engineer

Office Phone: (801) 259-6111

Home Phone: (801) 259-8811

_____, Petroleum Engineer

Office Phone: _____

Home Phone: _____

Address:

82 East Dogwood, P. O. Box 970
Moab, Utah 84532

Your contact with the San Rafael Resource Area Office is:

Mervin S. Miles , Surface Protection Specialist

Office Phone: (801) 637-4584

Home Phone: (801) 748-2249

Address:

900 N. 700 E., P.O. Box AB
Price, Utah 84501

RECEIVED
JUL 23 1987

DIVISION OF
OIL, GAS & MINING

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

3162 (U-065)
(U-18134)

JUL 22 1987

BWAB Incorporated
1801 California Street, Suite 1000
Denver, CO 80202

Re: Rescinding Application for
Permit to Drill
Well No. Orangeville Fed Unit 1-12
Sec. 1, T. 19 S., R. 7 E.
Emery County, Utah
Lease U-18134

Gentlemen:

The Application for Permit to Drill the referenced well was approved on July 11, 1986. Since that date, no known activity has transpired at the approved location.

Applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application.

Should you intend to drill this location at a future date, a new application for permit to drill must be submitted.

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

Sincerely yours,

/s/ Gary L. Hansen

District Manager

cc:
State of Utah, Division of Oil, Gas and Mining
San Rafael Resource Area

bcc:
U-942, Utah State Office

CFreudiger/cf 7/21/87



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Haasen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

072801

July 27, 1987

BWAB Incorporated
1801 California Street
Suite 1000
Denver, Colorado 80202

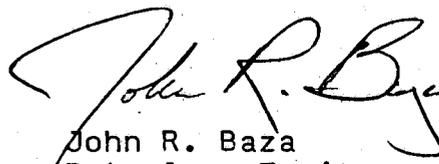
Gentlemen:

RE: Well No. Orangeville Federal Unit 1-12, Sec. 1, T. 19S, R. 7E,
Emery County, Utah, API NO. 43-015-30227

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

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

Sincerely,


John R. Baza
Petroleum Engineer

sb
cc: BLM-Moab
D. R. Nielson
R. J. Firth
Well file
0327T-92