



October 30, 1974

→ only (B)<sup>2</sup> changes  
←  
LEASE: Fee Land

WELL NO. AND LOCATION: Saltair Well #2, 500' FSL, 500' FWL (1)  
(SW, SW), Section 29, T.1N., R.2W., Salt Lake County, Utah.

PROPOSED ACTION: Mountain Fuel Supply Company proposes to drill an exploratory oil and gas well to a depth of approximately 3,000' to test the potential of the Great Salt Lake sediments, tertiary and paleozoics.

DESCRIPTION OF THE ENVIRONMENT AFFECTED: The proposed well site is located approximately 10 miles west of downtown Salt Lake City and approximately 1 mile north of U. S. Highway No. 40.

Lands to be affected by these operations are used for seasonal grazing. Soils in the pasture have a high alkali and salt content. The vegetation around the well site consists of sanfer, salt grasses and greasewood. The overall area would not be considered aesthetically beautiful nor used for recreational purposes.

The location is topographically level. The closest buildings to the location are the KSL towers and control building located approximately 1/2 mile south of the location. (See attached pictures)

No archeological or historical sites were observed in the immediate vicinity.

EFFECTS ON THE ENVIRONMENT BY THE PROPOSED ACTION: The operations will require a small portable diesel operated rotary rig, which will disturb the vegetation while sitting over the hole. The drilling operation shall require the use of existing farm operation trails as access and the construction of a 50'x75'x3' deep containment pit, lined with re-inforced polyethelene to prevent any leakage. Total time from rig-up to completion will be approximately 10 days.

The erosion potential is nill, however, any spillage if left unchecked, could find its way into fresh water irrigation canals which eventually drain into the Great Salt Lake.

The site is not located near any residential areas. Visual impact would be created only to an occasional duck hunter. The average traveler along Highway 40 would observe the presence of a rig in the distance against a foreground of salt grass and greasewood expanses.

Minor air pollution would occur over the life of the project. Noise pollution from the drilling equipment, transport and support traffic will occur. All of the foregoing disturbances would also have an effect on bird species and small mammals found near the area.

Fresh water acquifers that supply water for irrigation would be penetrated by the drilling bit. The fresh water sands are found in the Salt Lake alluvium at depths ranging from 10' to 1900'.

(Continued)

MITIGATIVE MEASURES INCLUDED IN THE PROPOSED ACTION: Upon completion of the well, the operator will move out the portable rig and restore the site to its original condition.

The containment pit will be lined to prevent any leakage and eliminate any threat of pollution to nearby irrigation water.

Drilling activity will result in minimal noise, exhaust, and dust emissions for a period of about 10 days and would be considered a temporary disturbance to the bird species, small mammals, and travelers along Highway 40.

All fresh water aquifers will be protected by casing cemented to the surface. In the event that no commercial hydrocarbons are found, the well will be plugged back to the surface and the site will be restored and seeded.

ALTERNATIVES TO THE PROPOSED ACTION: There is no alternative location within the surrounding area that would be less environmentally sensitive than the site under consideration.

The only other viable alternative is to not approve the existing application to drill. However, this could result in the operator losing his lease (must be spudded by November 29), followed by prolonged and expensive litigation against the State. In addition, denial would possibly eliminate significant reserves of oil and gas from entering the national energy stream.

THE RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES OF MAN'S ENVIRONMENT AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY: With the exception of possible future cultivation and development of improved land, said area has little value for purposes other than its present use as a seasonal grazing pasture.

The entire operation contemplated will last about 10 days and if "found dry", the area will be restored and re-seeded. If successful, operations could last from 10 to 30 years, but in the meantime the land could still be used for its primary purpose as pasture land.

Man would be short-sighted to trade off such short term disturbance to said use and environment for a chance to further this nation's quest for energy independence and new knowledge of the earth sciences. Also, if successful, economic benefits will flow therefrom to the State, county, and surrounding communities.

ANY IRREVERSIBLE OR IRRETRIEVABLE COMMITMENT OF RESOURCES THAT WOULD BE INVOLVED IN THE PROPOSED ACTION SHOULD IT BE IMPLEMENTED: Most adverse environmental impacts as a consequence of this proposed operation would be mitigated. However, the oil and gas, once depleted, is gone forever.

CONCLUSION: This requested action will not significantly affect the environment.

JBC/cdk

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

5. Lease Designation and Serial No.

Fee

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

6. If Indian, Allottee or Tribe Name

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

Mountain Fuel Supply Company

3. Address of Operator

P. O. Box 1129, Rock Springs, Wyoming 82901

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

1980' FSL, 660' FWL NW SW

At proposed prod. zone

7. Unit Agreement Name

10. Field and Pool, or Wildcat

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

NW SW 16-1N-2W

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

11 miles west of Salt Lake City, Utah

12. County or Parish 13. State

Salt Lake Utah

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

660'

16. No. of acres in lease

3079

17. No. of acres assigned to this well

-

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

-

19. Proposed depth

3200'

20. Rotary or cable tools

Rotary

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

GR 4212'

22. Approx. date work will start\*

Feb. 15, 1975

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" K-55	32	750'	630
7-7/8	4-1/2" K-55	11.6	to be determined	

We would like to drill the subject well to an estimated depth of 3200', anticipated formation tops are as follows: Lake Beds at the surface and Tertiary at 700'.

Mud will be adequate to contain formation fluids and blow out preventers will be checked daily.

Well to be drilled as a tight hole.

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 R. S. Myers Title GENERAL MANAGER GAS SUPPLY OPERATIONS Date FEB 6 1975

(This space for Federal or State office use)

Permit No. 15-035-30003 Approval Date

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

FEB 7 1975

Well Name Saltair Well No. 2

Location NW SW 16-1N-2W

Salt Lake County, Utah

<u>Wellhead Equipment</u>	<u>Size</u>	<u>Pressure Rating</u>	<u>Pressure Test</u>
Surface Casing Flange	<u>10 - 3000</u>	<u>3000</u>	<u>6000</u>
Casing Spool			
Tubing Spool	<u>10 - 3000 by 6 - 3000</u>	<u>3000</u>	<u>6000</u>
Tubing Bonnet	<u>6 - 3000</u>	<u>6000</u>	<u>6000</u>

<u>Blow Out Preventers</u> (Top to Bottom)	<u>Size</u>	<u>PSI Rating</u>	<u>PSI Test</u>	<u>Bag</u>	<u>Rams</u>
	<u>10</u>	<u>3000</u>	<u>6000</u>	<u>X</u>	
	<u>10</u>	<u>3000</u>	<u>6000</u>		<u>blind</u>
	<u>10</u>	<u>3000</u>	<u>6000</u>		<u>pipe</u>
<u>Gas Buster</u>	<u>Yes</u>	<u>X</u> <u>No</u>	<u>Degasser</u>	<u>Yes</u>	<u>X</u> <u>No</u>

Kill or Control Manifold

<u>3</u> Size	<u>3000</u> Pressure Rating	<u>6000</u> Pressure Rating Test	<u>Hydraulic Valves</u>

<u>Auxiliary Equipment</u>	<u>Kelly Cock</u>	<u>X</u> <u>Yes</u>	<u>No</u>

<u>Monitoring Equipment on Mud System</u>	<u>X</u> <u>Yes</u>	<u>No</u>

<u>Full Opening Drill Pipe Stabbing Valve on Floor</u>	<u>X</u> <u>Yes</u>	<u>No</u>

<u>Type of Drilling Fluid</u>	<u>X</u> <u>Water Base Mud</u>	<u>Air</u>	<u>Gas</u>	<u>Oil Base Mud</u>

Anticipated Bottom Hole Pressure 1500  
PSI

DEVELOPMENT PLAN  
FOR  
U.S.G.S. APPROVAL  
OF  
SURFACE USE  
MOUNTAIN FUEL DRILLING WELLS

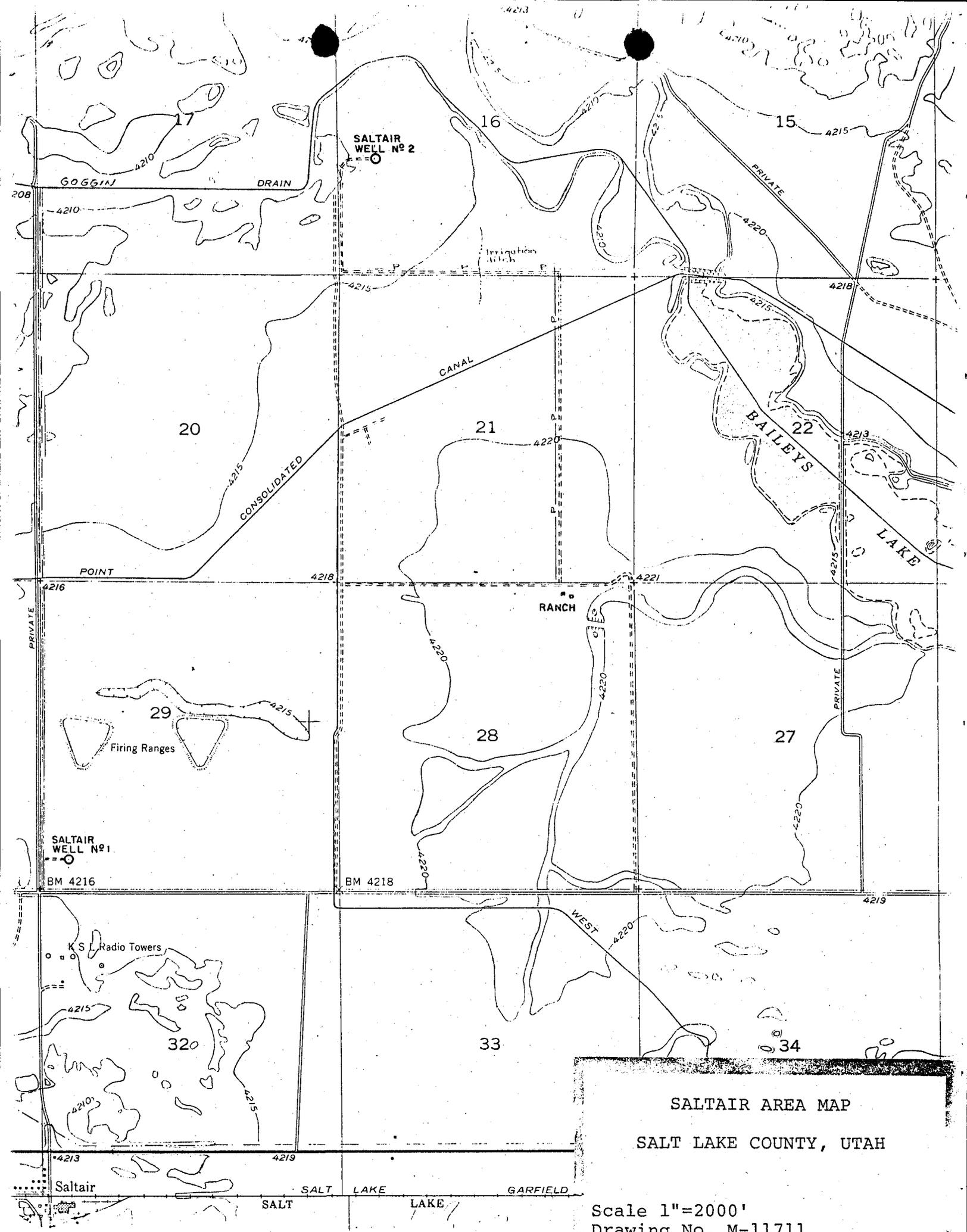
Well Name Saltair Well No. 2

Field or Area Saltair

1. Existing roads. - Refer to area map drwg. No. M-11711.
2. Planned access roads. - Refer to area map drwg. No. M-11711.
3. Location of wells. - Refer to area map drwg. No. M-11711.
4. Lateral roads to well locations. - Refer to area map drwg. No. M-11711.
5. Location of tank batteries and flowlines. - If the well is a producer, and production facilities and tankage are needed, they will be placed on or immediately adjacent to the location.
6. Location and types of water supply. - Water for drilling will be hauled to the location from the North Point Consolidated Canal. See area map drwg. No. M-11711.
7. Methods of handling waste disposal. - Refer to enlarged well site plan on drwg. No. M-11772.
8. Location of camps. - None, there is an existing ranch headquarters approximately 1-3/4 miles southeast of the location.
9. Location of airstrips. - None are planned. The location is approximately 5.5 miles west of the Salt Lake International Airport.
10. Location layout to include position of the rig, mud tanks, reserve pits, burn pits, pipe racks, etc. - Refer to enlarged well site plan on certified plat drawing No. M-11772.
11. Plans for restoration of the surface. - After drilling operations, the well site will be cleared and cleaned and all sumps filled in. Should the well be a dry hole, the access road and well site will be abandoned and surfaces restored to the extent practicable and seeded. Should the well be a producer, areas of non-use will be restored and seeded.
12. Any other information which the Approving Official considers essential to his assessment of the impact on the environment. - Lands to be affected by these operations are used for hay production and grazing. The location itself is on an irrigated hay field.

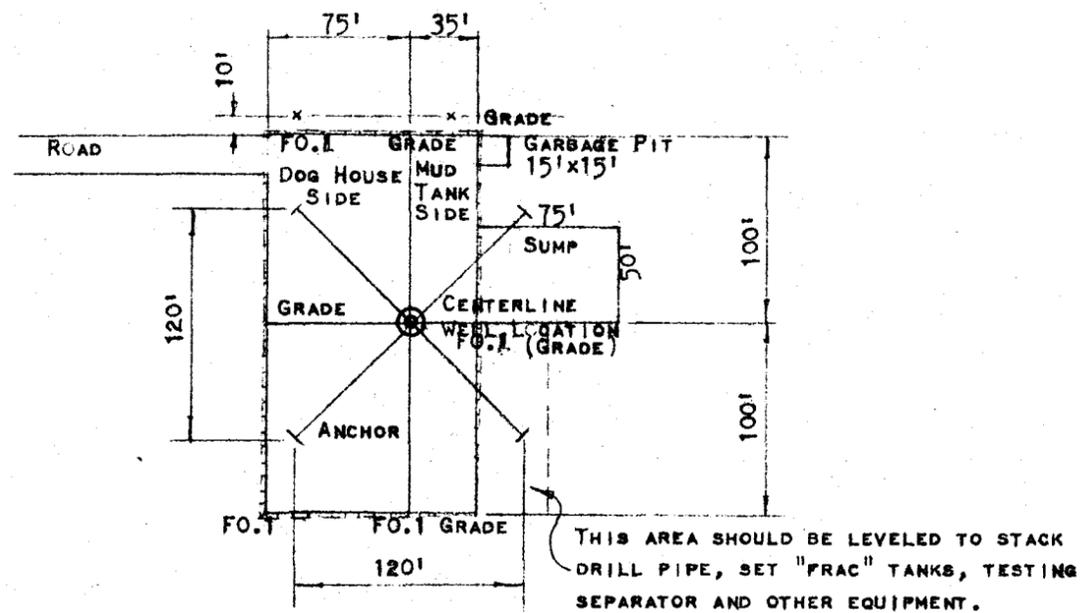
cc: Paul Zubatch (4)

Signed *A.B. Carls*  
Civil Engineering Supervisor



SALTAIR AREA MAP  
 SALT LAKE COUNTY, UTAH

Scale 1"=2000'  
 Drawing No. M-11711

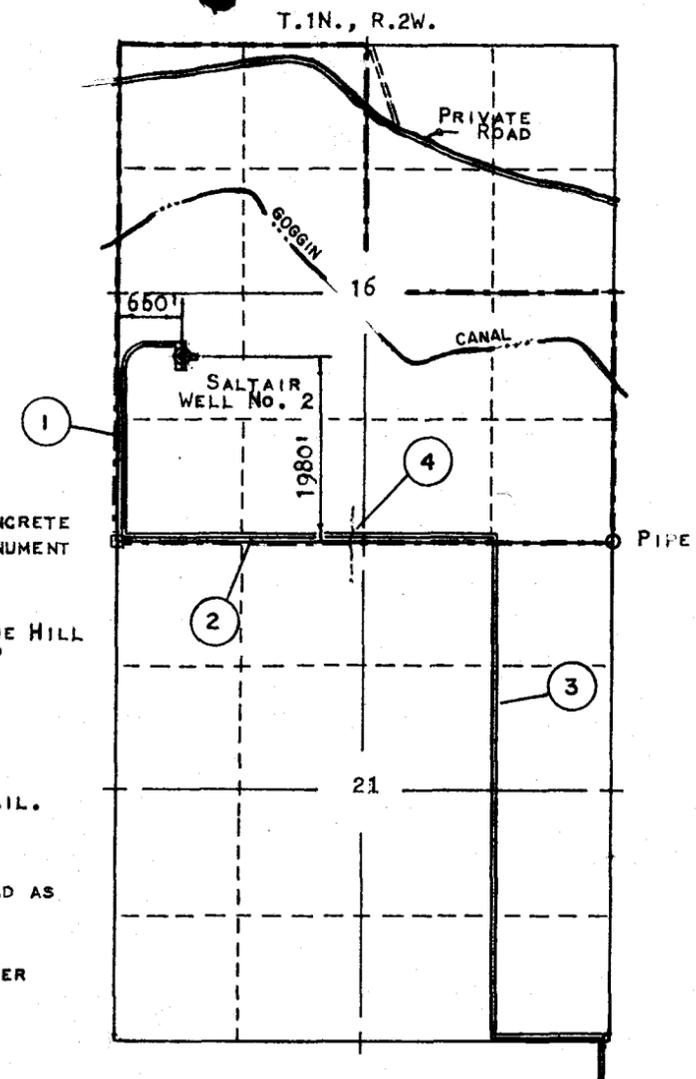


- ENLARGED WELL SITE PLAN -

SCALE: 1"=100'

NOTE:

AT SITES WHERE TOPBOIL IS PRESENT, SAME IS TO BE REMOVED AND STORED ON THE ADJACENT AREA FOR RESTORATION OF THE SITE WHEN REQUIRED.



- LOCATION PLAN -

SCALE: 1"=2000'

This is to certify that the above plat was prepared from field notes of actual surveys made under my supervision and that the same are true and correct to the best of my knowledge.

*S. M. Fabian*  
 Engineer  
 UTAH LAND SURVEYOR No. 3521

DRILLING W.O. 22174

LEGEND	ENGINEERING RECORD		REVISIONS				 <b>MOUNTAIN FUEL</b> SUPPLY COMPANY ROCK SPRINGS, WYOMING
	SURVEYED BY	DATE	NO.	DESCRIPTION	DATE	BY	
 WELL  STONE CORNER  PIPE CORNER	S. M. FABIAN	2/3/75					<b>CERTIFIED WELL LOCATION AND WELL SITE PLAN</b> SALTAIR WELL NO. 2
	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>					
	LOCATION DATA						DRAWN: 2/5/75 FJC SCALE: AS NOTED CHECKED: <i>[Signature]</i> DRWG. NO. M-11772 APPROVED: JBC
	FIELD	SALTAIR AREA					
	LOCATION: NW SW SECTION 16, T.1N., R.2W. 1980' FSL, 660' FWL						
	SALT LAKE COUNTY, UTAH						
	WELL ELEVATION: 4212' (AS GRADED) ELEVATION BY SPIRIT LEVELS FROM USGS BENCH MARK AT SW CORNER SEC. 28, T.1N., R.2W.						

ENVIRONMENTAL ASSESSMENT

TYPE OF ACTION:

Drilling a wildcat well to determine the presence of commercial hydrocarbons under fee acreage.

*Location  
Revised*

LOCATION:

*Saltair #1  
Location  
Change*

Saltair Well #2, 500' FSL, 500' FWL, (SW, SW), Section 29, Township 1 North, Range 2 West, Salt Lake County, Utah. See attached Maps.

AGENCY RESPONSIBLE:

Utah Division of Oil & Gas Conservation, 1588 West North Temple, Salt Lake City, Utah

DATE:

November 8, 1974

ANTICIPATED MAJOR IMPACTS:

Physical -	Drilling of a 3200' hole and soil disturbance.
Biological -	Not significant.
Human -	Economic benefits expected through increased local activity, new knowledge of the earth sciences, and possible entry of significant hydrocarbon reserves to the national energy stream. Secondary impacts could be considerable depending on success of exploration.

COST:

Approximately \$30,000

DESCRIPTION

Proposed Action: As authorized by contractual agreement with a private landowner, Mountain Fuel Supply Co. proposes to drill an exploratory oil and gas well to a depth of 3200 feet in order to test the potential of the Great Salt Lake sediments which are Tertiary and Paleozoic in age.

The operations will require a small portable diesel operated rotary rig, which will disturb the vegetation while sitting over the hole. The drilling operation shall require the use of existing farm operation trails as access and the construction of a 50' x 75' x 3' - deep containment pit, lined with re-inforced polyethylene to prevent any leakage. Total time from rig-up to completion will be approximately 10 days. Road and yard is located on fee lands.

*Assessed 11-26-74*

Present Situation:

Four plugged and abandoned well sites surround the area of interest. The deepest of these wells was drilled by Woodliff-Garson Co. in Section 24, Township 1 North, Range 3 West to a depth of 4231 feet. This well is located approximately two miles northwest of the proposed well site.

Boundaries & Physical:

The proposed well site is located approximately 9 miles west of downtown Salt Lake City, and approximately 1 mile north of U.S. Highway No. 40.

The location is topographically level. The closest buildings to the location are the KSL towers and control building located approximately 1/2 mile south of the location. (See attached pictures)

Surface soils are made up of Great Salt Lake sediments which are Quaternary in age. The material consists of both fluvial sandstone, mudstone, and lake deposits.

Biological:

Lands to be affected by these operations are used for seasonal grazing. Soils in the pasture have a high alkali and salt content. The vegetation around the well site consists of sanfer, salt grasses and greasewood. The overall area would not be considered aesthetically beautiful nor used for recreational purposes.

Wildlife consists mainly of small birds, and ducks. None of the wildlife seen were listed on the 1973 Threatened Species List.

Human:

No archeological or historical sites were observed in the area to be disturbed. Also, it is not located near any recreational or tourist overlook.

The site is not located near any residential area. Visual impact would be created only to an occasional duck hunter. The average traveler along Highway 40 would observe the presence of a rig in the distance against a foreground of salt grass and greasewood expanses.

If successful, the project would have related economic benefits which would flow therefrom to the state, county, and surrounding communities. In any event, the hole would add considerable knowledge to the field of petroleum geology.

II  
ALTERNATIVES

Status Quo:

Potential energy resources underlying said fee acreage may not be realized if exploratory action is not taken.

Alternate 2:

There is no alternative location within the surrounding area that would be less environmentally sensitive than the site under consideration.

Alternate 3:

The only other viable alternative is to not approve the existing application to drill. However, this could result in the operator losing his lease (must be spudded by November 29), followed by prolonged and expensive litigation against the state. In addition, denial would possibly eliminate significant reserves of oil and gas from entering the national energy stream.

III

IMPACT-DIRECT

Air Quality:

No significant degradation of the air quality is anticipated. Minor air pollution by exhaust emissions from equipment and "dusting" would occur over the life of the project.

Noise:

Noise levels may be rather high due to drilling equipment, transport, and support traffic. However, since there are no receptors in the project vicinity, mitigative measures, except those required by OSHA for the workers, need not be undertaken.

Water:

Fresh water aquifers that supply water for irrigation would be penetrated by the drilling bit. The fresh water sands are found in the Salt Lake alluvium at depths ranging from 10' to 1900'.

Any spillage if left unchecked, could find its way into fresh water irrigation canals which eventually drain into the Great Salt Lake. This might result in an adverse effect on the aquatic habitat if not controlled.

Geological:

Erosion potential would be considered nil.

Biological:

Removal of vegetation would occur during construction of the pit.

Noise and presence of drilling rig may cause movement of domesticated animals such as sheep, or wildlife such as ducks, out of the immediate vicinity of the project. However, such disturbances should not be any greater than the present movement of farm machinery.

Human:

A slight increase to the economy of the town of Salt Lake City, Salt Lake County, and state governments would occur over the life of the project.

If a major discovery is made, Salt Lake City could easily handle the additional drilling contractors and related handmaidens of the industry servicing the field.

## IMPACT-INDIRECT

If no resources are discovered, future exploratory wells may never occur under this particular fee acreage.

However, if significant oil & gas is discovered the economic and employment consequences would be enhanced for industry, community, county and state government. Naturally, the changes the locale could be dramatic, both from a physical and human standpoint.

## MITIGATIVE MEASURES

Upon completion of the well, the operator will move out the portable rig and restore the site to its original condition.

The containment pit will be lined to prevent any leakage and eliminate any threat of pollution to nearby irrigation water.

Drilling activity will result in minimal noise, exhaust, and dust emissions for a period of about 10 days and would be considered a temporary disturbance to the bird species, small mammals, and travelers along Highway 40.

All fresh water aquifers will be protected by casing cemented to the surface. In the event that no commercial hydrocarbons are found, the well will be plugged back to the surface and the site will be restored and seeded.

## VI

### SHORT-TERM VERSUS LONG-TERM EFFECTS

With the exception of possible future cultivation and development of improved land, said area has little value for purposes other than its present use as a seasonal grazing pasture.

The entire operation contemplated will last about 10 days and if "found dry", the area will be restored and re-seeded. If successful, operations could last from 10 to 30 years, but in the meantime the land could still be used for its primary purpose as pasture land.

Man would be short-sighted to trade off such short term disturbance to said use and environment for a chance to further this nation's quest for energy independence and new knowledge of the earth sciences. Also, if successful, economic benefits will flow therefrom to the state, county, and surrounding communities.

VII

IRREVERSIBLE AND IRRETRIEVALBE COMMITMENTS

Most adverse environmental impact as a consequence of this proposed operation would be mitigated. However, the oil & gas once depleted is gone forever, as well as the petroleum energy, man-power, tools, and equipment consumed while drilling said well or wells.

VIII

CONTROVERSIAL ELEMENTS

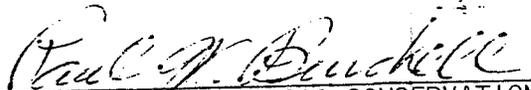
No opposition to the Notice of Intent to Drill has been filed with the Division of Oil & Gas.

IX

CONCLUSION

This requested action will not significantly affect the environment.

Date inspected: October 29, 1974

  
DIVISION OF OIL & GAS CONSERVATION

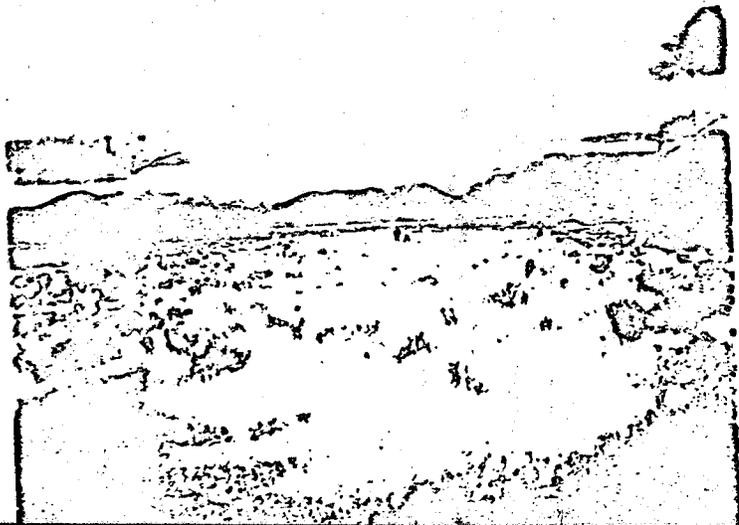
SALTAIR WELL #2



Looking east -  
The old concrete pad  
located about 1/2 mile from well site.

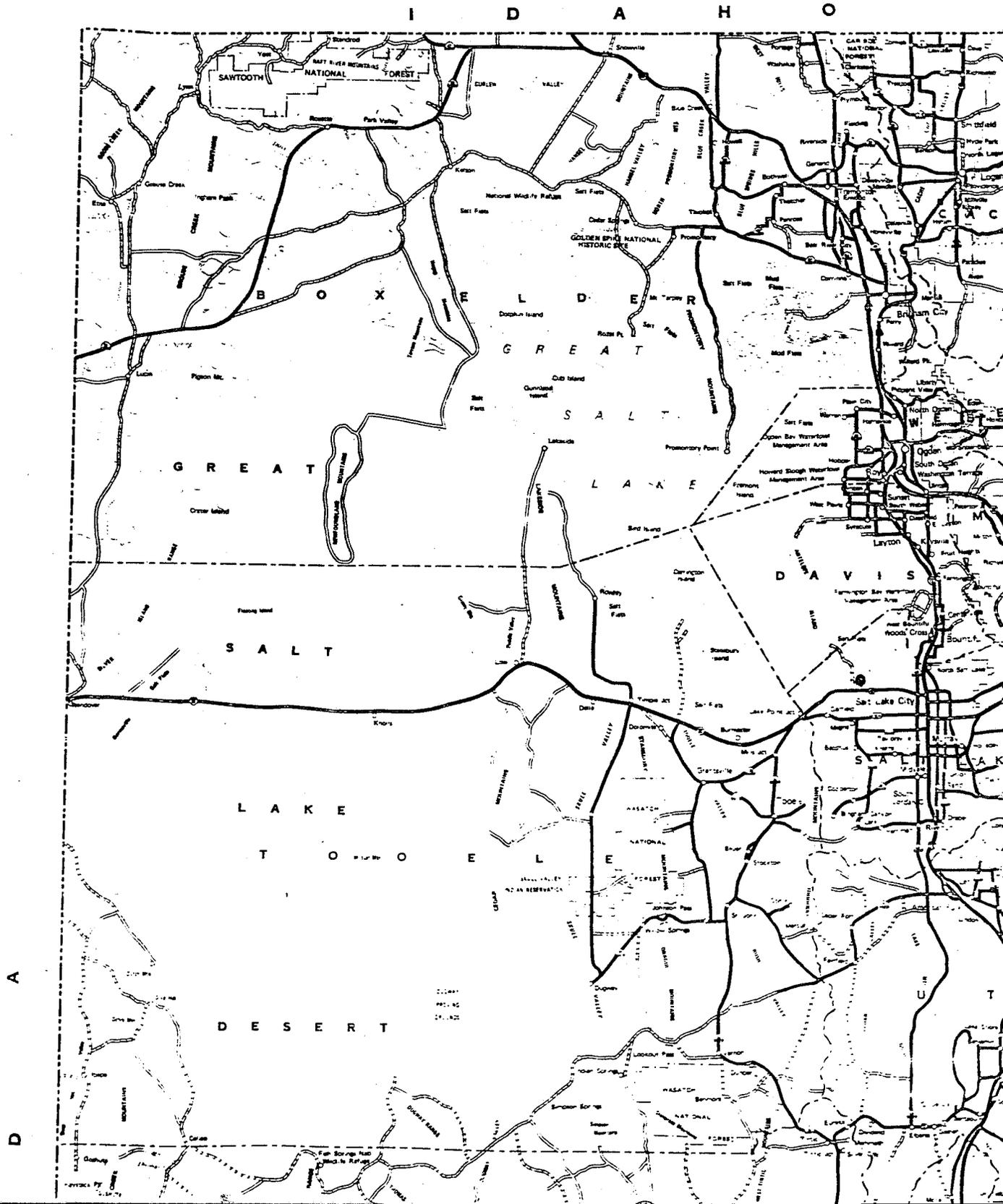


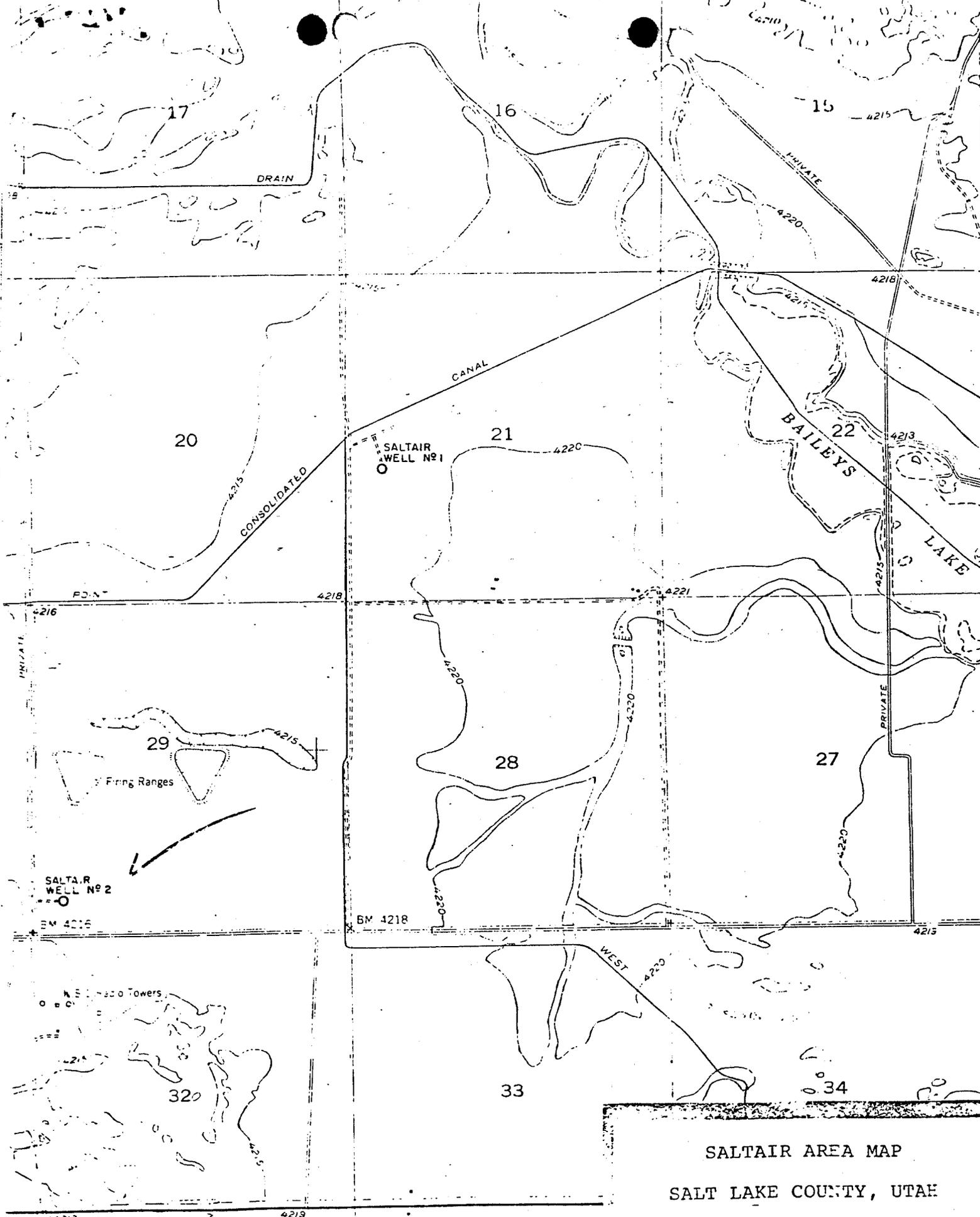
Looking north -  
Old concrete pad that has been  
covered over and used as a  
firing range. Located about  
1/2 mile from well site.



Looking south -  
The old concrete pad  
located about 1/2 mile from well site.

Salt #2





SALTAIR AREA MAP  
 SALT LAKE COUNTY, UTAH

Scale 1"=2000'

Saltair      SALT LAKE      GIFFIELD

5

## INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming

CITY

STATE

TO R. G. Myers

DATE February 7, 1975

SUBJECT Tentative Plan to Drill

Saltair Well No. 2

Salt Lake County, Utah

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated January 22, 1975.

TMC/gm

Attachment

cc: J. T. Simon  
B. W. Croft  
E. R. Keller (6)  
A. K. Zuehlsdorff  
Geology (2)  
D. E. Dallas (4)  
C. F. Rosene  
B. M. Steigleder  
E. A. Farmer  
U.S.G.S.  
State   
Paul Zubatch  
P. E. Files (4)

From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

February 7, 1975

Tentative Plan to Drill  
Saltair Well No. 2  
Salt Lake County, Utah

This well will be drilled by \_\_\_\_\_ Drilling Company. One work order has been originated for the drilling and completion of the well, namely 22174, Drill Saltair Well No. 2, located in the NW SW Sec. 16, T. 1 N., R. 2 W., Salt Lake County, Utah. This well will be drilled to a total depth of 3200 feet and 4-1/2-inch O.D. casing run. Surface elevation is at 4212 feet.

NOTE: This well is a tight hole and no information will be released.

1. Drill 12-1/4-inch hole to approximately 750 feet KBM.
2. Run and cement approximately 250 feet of 8-5/8-inch O.D., 32-pound, K-55, Hydril FJ-P casing. The Rock Springs Machine Shop will cut the Hydril FJ-P box off and cut an 8-5/8-inch 8 round thread ST&C pin looking up on the top joint of 8-5/8-inch O.D. casing and install an 8-5/8-inch 8 round thread ST&C collar. A joint of 8-5/8-inch O.D., 8 round thread, ST&C casing will be used as the landing joint. The casing will be cemented with 210 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 8-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Cement will be treated with 954 pounds of Dowell D43A. Plan on leaving a 10-foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be

landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 25 barrels of mud. Capacity of the 8-5/8-inch O.D., 32-pound casing is 12 barrels.

3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 8-5/8-inch O.D., 8 round thread casing. Install a 2-inch extra heavy nipple, 6-inches long, and a WKM B138 (2000 psi WOG, 4000 psi test) valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipling up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 8-5/8-inch O.D., 32-pound, K-55, Hydril FJ-P casing is 3930 psi.
4. Drill 7-7/8-inch hole to the total depth of 3200 feet or to such depth as the Geological Department may recommend. A mud desander will be used from under the surface casing to total depth to remove all undesirable solids from the mud system and to keep the mud weight to a minimum. A fully manned logging unit will be used from surface casing to total depth. The mud logging unit will be responsible for catching samples

from surface casing to total depth. The mud system will consist of properties adequate to allow the running of drill stem tests. The mud weight should be held as low as practical. Four drill stem tests are anticipated starting at 700 feet. Anticipated tops are as follows:

	<u>Approximate Depth (Feet KBM)</u>
Lake Beds	Surface
Tertiary	700
Total Depth	3,200

5. Run a dual induction-laterolog (linear 2-inch and logarithmic 5-inch with RXO/Rt on 5-inch) from total depth to the bottom of the surface pipe, a borehole compensated sonic gamma ray caliper log with sonic "F" log from total depth to surface casing, and a formation density log and dipmeter from total depth to surface casing.
6. Assume commercial quantities of gas and/or oil are present as indicated by open hole drill stem tests or log analysis. Go into hole with 7-7/8-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 4-1/2-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by open hole drill stem tests or log analysis. A Baker Model "G" circulating differential fillup float collar and guide shoe will be run as floating equipment. Cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 4-1/2-inch O.D. casing, 1000

feet above the uppermost producing zone as indicated by drill stem test and log analysis. Circulate 100 barrels of drilling mud prior to beginning cementing operations. Capacity of the 4-1/2-inch O.D. casing is approximately 50 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water.

8. Immediately after cementing operations are completed, land the 4-1/2-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and record indicator weight. Install a NSCo. 10-inch 3000 psi by 6-inch 3000 psi tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, LT&C casing is 4960 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.
9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 4-1/2-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 3-3/4-inch bit on 2-3/8-inch O.D., 4.6-pound, J-55 seal lock thread tubing to check plugged back depth.

14. Using Halliburton pump truck and water, pressure test casing and tubing rams to 4000 psi for 15 minutes. The minimum internal yield for 4-1/2-inch O.D., 11.6-pound, K-55 casing is 5350 psi and the wellhead has a working pressure of 3000 psi with a test pressure of 6000 psi. Pull tubing and pressure test casing and blind rams to 4000 psi for 15 minutes.
15. A tentative plan to complete the well will be issued after results of the above items have been evaluated.

GENERAL INFORMATION

- I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
8-5/8-inch O.D., 32-pound, K-55, Hydril FJ-P casing	300	Warehouse stock
	<u>Production Casing</u>	
4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, LT&C casing	3,500	Warehouse stock
	<u>Production Tubing</u>	
2-3/8-inch O.D., 4.6-pound, J-55 seal lock tubing	3,500	Warehouse stock

- II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.
- III. Well responsibility - R. F. Sweeney
- IV. If it is determined that the well should be abandoned, it will be cemented from total depth to surface.

February 25, 1975

Mountain Fuel Supply Company  
P.O. Box 1129  
Rock Springs, Wyoming 82901

Re: Well No. Saltair #2  
Sec. 16, T. 1 N, R. 2 W,  
Salt Lake County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the 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:

CLEON B. FEIGHT - Director  
HOME: 466-4455  
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-035-30003.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sw

March 11, 1975

Dr. William S. Partridge, Vice President, Research  
307 Park Building  
University of Utah  
Salt Lake City, Utah 84112

Dear Dr. Partridge:

This letter is to certify that the Oil and Gas Conservation Division, State of Utah, approves the use by the University of Utah of a shaft drilled by the Mountain Fuel Supply Company (location: 1980' from the South line, 660' from the West line, Township 1 North, Range 2 West, Section 16).

In order that an earthquake-recording seismometer can be operated within this shaft by the University of Utah Seismograph Stations, we agree to waive the requirement that this shaft be plugged with a near surface plug.

We understand that upon conclusion of its use of this shaft, the University of Utah agrees to plug the shaft with concrete, to appropriately seal and mark the plugged well, and to meet any other standard requirements specified by State law.

Very truly yours,

DIVISION OF OIL AND GAS CONSERVATION

CLEON B. FEIGHT  
DIRECTOR

CBF:sw

cc: Mr. J.T. Simon, Executive Vice President  
Mountain Fuel Supply Company  
Box 11368  
Salt Lake City, Utah 84111  
  
Mr. R. Gordon Bader, President  
Bonneville-on-the-Hill Company  
220 Kearns Building  
Salt Lake City, Utah 84101

COMPLETION REPORT

Well: Saltair Well No. 2 Date: March 14, 1975  
Area: Saltair Lease No: \_\_\_\_\_

New Field Wildcat       Development Well       Shallower Pool Test  
 New Pool Wildcat       Extension       Deeper Pool Test

Location: 1980 feet from south line, 660 feet from west line  
NW  $\frac{1}{4}$  SW  $\frac{1}{4}$   
Section 16, Township 1 North, Range 2 West  
County: Salt Lake County State: Utah

Operator: Mountain Fuel Supply

Elevation: KB 4222.70 Gr 4212 Total Depth: Driller 3207 Log \_\_\_\_\_

Drilling Commenced: February 27, 1975 Drilling Completed: March 10, 1975

Rig Released: March 11, 1975 Well Completed: March 11, 1975

Sample Tops: (unadjusted)

Quaternary Surface  
Salt Lake Group 910'

Log Tops:

Quaternary Surface  
Salt Lake Group 1086'

Sample Cuttings: 10-foot samples from 26' to 3207'

Status: D & A  
Producing Formation: None  
Perforations: None  
Stimulation: None  
Production: None  
Plug Back Depth: 270'  
Plugs: Six: 3200'-2670', 2670'-2182', 2182'-1694', 1694'-1206', 1206'-718', 718'-270', with 867 total sacks  
Hole Size: 12 1/4" from surface to 325'; 7 7/8" from 325' to 3207'  
Casing/Tubing: 8 5/8", 32#, K-55 from surface to 274.48 KEM  
Logging - Mud: Rocky Mountain Geo-Engineering (John Clutter - Crew Chief)  
Mechanical: DIL with Rxo/Rt from 276' to 3182'; BHC/GR from 275' to 3166'/ "F" log from 300' to 3176'; CND/GR from 275' to 3175'  
Contractor: Signal Drilling Company

Completion Report Prepared by: G. G. Francis

Remarks: The well was given to the University of Utah, Department of Geophysics.

COMPLETION REPORT (cont.)

Well: Saltair Well No. 2

Area: Saltair

Cored Intervals (recovery): In both cores recovery was limited to schist and gneiss pebbles.  
1721'-1740' with 2' recovery  
3200'-3207' with 2' recovery

Tabulation of Drill Stem Tests:

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
1	1675-1721	765	(30)	(90)	(91)	(239)	731	mud	Combustible GTS on final flow; Rec. 220' drilling mud; tool was plugging during test, misrun.

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

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

PD

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> Wildcat		5. LEASE DESIGNATION AND SERIAL NO. Fee
2. NAME OF OPERATOR Mountain Fuel Supply Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		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  1980' FSL, 660' FWL NW SW		8. FARM OR LEASE NAME Saltair
14. PERMIT NO. 43-035-30003		9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 4223.70' GR 4212'		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NW SW 16-1N-2W
		12. COUNTY OR PARISH Salt Lake
		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"/>	FULL 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 checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <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.) \*

TD 3207'.  
Spudded February 27, 1975, landed 264.58' net, 266.38' gross on 8-5/8"OD, 32#, K-55 Hydril FJ-P casing at 276.28' and set with 280 sacks of cement.  
DST #1: 1675-1721', Salt Lake group, IO 1/2 hr, ISI 1 1/2 hrs, FO 2 hrs, FSI 4 hrs, opened with very weak blow continued, no gas, reopened with weak blow, gas immediately not enough to gauge, recovered 220' mud, IHP 762, IOFP's 80-80, ISIP 681, FOFP's 100-100, FSIP 701, FHP 762.

Verbal approval was granted to plug and abandon the subject well by laying cement plugs from 3207' to 270'.

18. I hereby certify that the foregoing is true and correct  
 SIGNED R. J. Myers TITLE General Manager, Gas Supply Operations DATE March 19, 1975

(This space for Federal or State office use)

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

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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<b>17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS</b> (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.)* TD 3207', PBD 270', rig released March 11, 1975, well plugged and abandoned as follows:  Plug No. 1 : 3207-2670', 147 sacks Plug No. 2: 2670-2182', 147 sacks Plug No. 3: 2182-1694', 147 sacks Plug No. 4: 1694-1206', 147 sacks Plug No. 5: 1206- 718', 147 sacks Plug No. 6: 718- 270', 132 sacks - total 867 sacks  A cap was installed on the 8-5/8" casing, well turned over to the University of Utah.		<b>18. STATE</b> Utah																																						

18. I hereby certify that the foregoing is true and correct  
 SIGNED R. S. Myers TITLE General Manager, Gas Supply Operations DATE March 19, 1975

(This space for Federal or State office use)

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

STATE OF UTAH  
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE\*

(See other instructions on reverse side)

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  
Mountain Fuel Supply Company

3. ADDRESS OF OPERATOR  
P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1980' FSL, 660' FWL NW SW  
At top prod. interval reported below  
At total depth

14. PERMIT NO. 43-035-30003  
DATE ISSUED

15. DATE SPUDED 2-27-75  
16. DATE T.D. REACHED 3-9-75  
17. DATE COMPL. (Ready to prod.) 3-11-75  
18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* KB 4223.70' GR 4212'

20. TOTAL DEPTH, MD & TVD 3207'  
21. PLUG, BACK T.D., MD & TVD 270'  
22. IF MULTIPLE COMPL., HOW MANY\*  
23. INTERVALS DRILLED BY 10 - 3207'

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

26. TYPE ELECTRIC AND OTHER LOGS RUN  
DIL, BHC Sonic, Comp. Neutron Density

25. WAS DIRECTIONAL SURVEY MADE No

27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	32#	276.28'	12-1/4"	280	0
			7-7/8"		

29. LINER RECORD

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

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

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

33.\* PRODUCTION

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

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)  
Vented while testing.

35. LIST OF ATTACHMENTS  
Log~~s~~ as above.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED A. J. Myers TITLE General Manager, Gas Supply Operations DATE March 19, 1975

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

# INSTRUCTIONS

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

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

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

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

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

MAR 20 4 1975

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
				Log tops:		
				Quaternary Lake Beds	0'	
				Tertiary	1086'	

**37. SUMMARY OF POROUS ZONES:**  
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

**38. GEOLOGIC MARKERS**

Incidents/Spills

Well Inspections

Date Mod 11/18/2003

Inspection Tracking Press/Rest

API Well No. 43-035-30003-00-00 Owner MOUNTAIN FUEL SUPPLY CO County SALT LAKE  
 Well Name SALT AIR 2  
 WI Typ Unknown Felty/Proj NA Well Status Plugged and Abandoned  
 Well S-T-R S: 16 T: 1N R: 2W  
 Directions

Inspect No. Type Purpose Responsible Company 80680  
 ILC00000389 Bond Release MOUNTAIN FUEL SUPPLY CO

Violation?  SNC?  **C** Kernecott-Ann Neville-Inland Sea Shorebird Reserve 569-7204/891-6842 gave me the combination to  
**M** their locked gate to do final inspection. Surface owner is Dave Hinckley 595-6339/554-1705. Unable  
**N** to locate PA marker, it's probably buried. The location was determined by UTM's & GPS. There are  
**T** visible signs of the drill pad however it is now overgrown with grasses for cattle grazing. The  
 surrounding area is heavily overgrown with sage brush and grasses, and drainages from "Goggin Drain"  
 which is located to the north. Current surface use is cattle grazing (see pictures).  
 Write/View Violation

Date Inspected 11/07/2003  
 Date NOV  
 Date RmdyReq  
 Date Extension  
 Date Passed

Failed Items

Fail Code	Status	Description

Comply# Incident# Inspector Lisha Cordova Duration

Record: 1 of 1 (Filtered)

Form View

FLTR CAPS NUM

