

**LONE MOUNTAIN PRODUCTION COMPANY**

P.O. BOX 3394  
408 PETROLEUM BUILDING  
BILLINGS, MONTANA 59103-3394  
(406) 245-5077

**RECEIVED**  
APR 20 1988

April 18, 1988

DIVISION OF  
OIL, GAS & MINING

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

Attention: Ron Firth

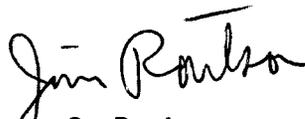
Dear Ron:

Enclosed for your approval please find, in duplicate, an APD covering the drilling of our Quinoco Federal No. 11-1 well in Grand County, Utah. We hope to drill this well in mid-May; therefore, your expedient handling of the APD is appreciated.

Please advise if any further information is required. Thank you.

Very truly yours,

LONE MOUNTAIN PRODUCTION COMPANY



James G. Routson

JGR:hg  
Enclosures

cc: Larry D. Becker

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.  
**U-21568**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Federal**

9. WELL NO.  
**11-1**

10. FIELD AND POOL, OR WILDCAT  
 **Bryson Canyon**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**NE 1/4 Sec. 11-T17S-R24E SLM**

12. COUNTY OR PARISH  
**Grand**

13. STATE  
**Utah**

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
**DRILL**  **DEEPEN**  **PLUG BACK**

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
**Lone Mountain Production Company** DIVISION OF **OIL, GAS & MINING**

3. ADDRESS OF OPERATOR  
**408 Petroleum Building, P. O. Box 3394, Billings, Montana 59103**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface **587' FNL, 1099' FEL** *NE NE*  
At proposed prod. zone **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**24 Miles northwest of Mack, Colorado**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if applicable)  
**Lease Line: 587'**  
**Drilling Unit: 587'**

16. NO. OF ACRES IN LEASE  
**40**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**160**

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

19. PROPOSED DEPTH  
**6207'** *Morrison*

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**7066' GL, 7077' KB**

22. APPROX. DATE WORK WILL START\*  
**May 15, 1988**

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	32.30# L.S.	200'	150 sacks Class "G" (to surface)
8 3/4"	7" new	20# L.S.	2300'	150 sacks 50-50 Pozmix
6 1/4"	4 1/2" new	11.6#	6207'	175 sacks RFC

- Surface formation is the Mesaverde.
- Anticipated geologic markers are: Castlegate 2077', Mancos 2300', Dakota Silt 5617', Dakota Sand 5702', Morrison 5882'.
- Gas is anticipated in the Dakota and Morrison. No oil or other minerals are anticipated. Minor water sands are expected in the Mesaverde.
- Proposed casing program: See Item No. 23 above.
- Pressure control equipment: See attached well control plan and schematic of drilling contractor's BOP stack. BOPs will be tested before drilling out from under surface casing and checked daily.

(Continued on page 2)

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 James D. Remton TITLE Petroleum Engineer DATE April 18, 1988

(This space for Federal or State office use)

PERMIT NO. 43-019-31264 APPROVAL DATE \_\_\_\_\_ APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE: 4-22-88

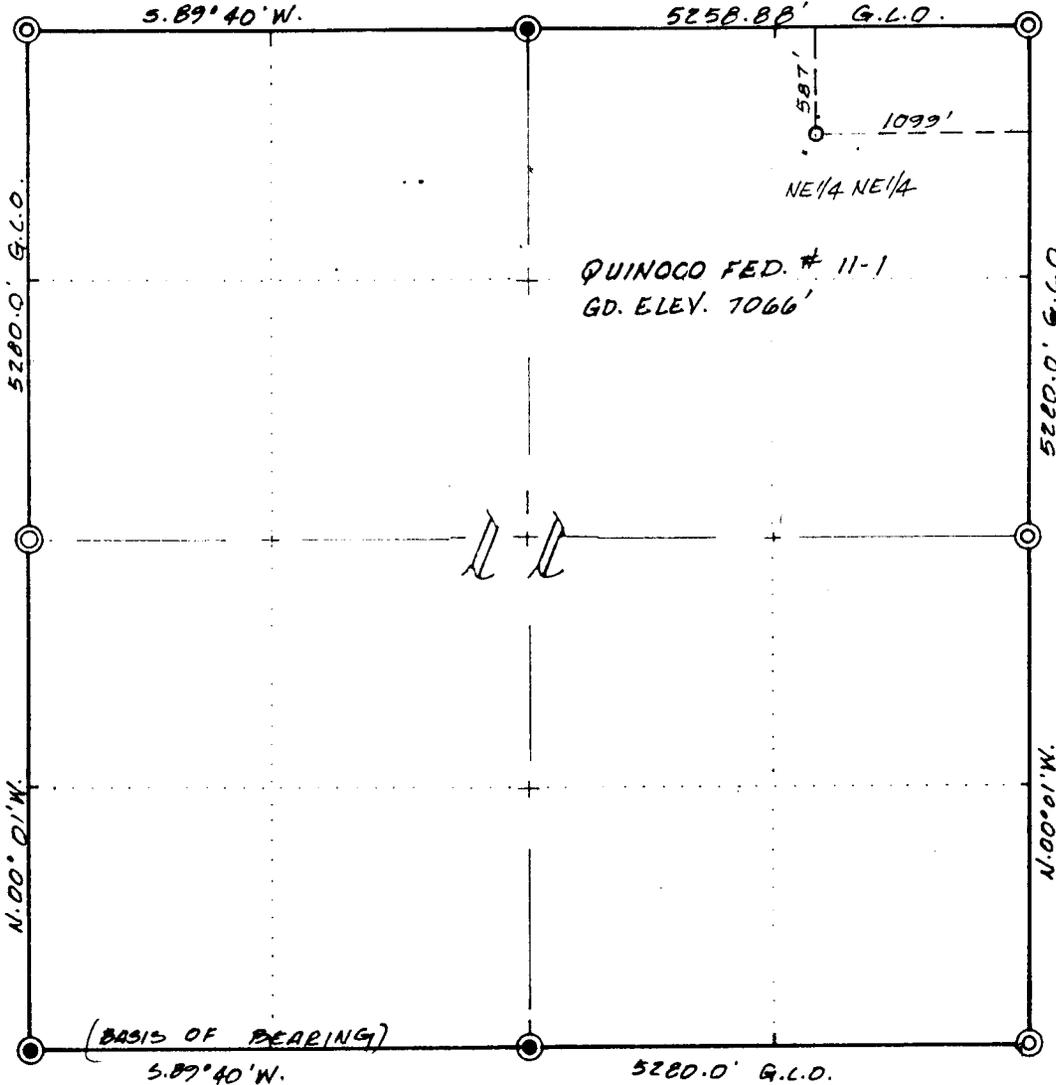
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ BY: John R. B...

\*See Instructions On Reverse Side

WELL SPACING: Clause no. 13-6  
8-28-86

6. Air or mist drilling will be used to drill the surface hole and intermediate hole unless water is encountered. If water is encountered, chemical gel-type mud will be used. The well will be air drilled from under intermediate casing to total depth.
7. Auxiliary equipment: See well control plan.
8. The logging program will consist of a DIL log from TD to base of intermediate casing, GR-FDC-CNL logs from TD to 500' above the Dakota Silt, and a cased hole GR-CNL from 2400' to 1900'. No cores or DSTs are planned.
9. No abnormal pressures or temperatures are anticipated. No poisonous gas is anticipated.
10. Anticipated spud date is May 15, 1988. Completion operations should commence within 30 days of rig release.
11. Survey plats are attached.
12. The gas is dedicated to Southwest Gas Company.
13. Lone Mountain is the designated successor operator for the communitized N $\frac{1}{2}$  of Section 11, Communitization Agreement No. CR-161.
14. Lone Mountain has obtained a treasury note held in the BLM account in Denver, Colorado, in lieu of a statewide bond. Other owners under the communitized area are Quinoco and Ferguson, both of whom are bonded.

SEC. 11, T. 17S., R. 24E. OF THE S.L.B.M.



- LEGEND**
- ⊙ STANDARD LOCATION OF GLO SECTION CORNERS
  - GLO CORNERS FOUND
  - WELL LOCATION STAKED.
- REFERENCE DOCUMENTS**
- 1926 GLO PLAT
  - BRYSON CANYON, UT QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MTN. PRODUCTION CO.  
 TO LOCATE THE QUINOCO FEDERAL # 11-1, 587' F.N.L. &  
1099' F.E.L. IN THE NE 1/4 NE 1/4, OF SECTION 11, T. 17S., R. 24E.  
 OF THE S.L.B.M. GRAND COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

*Larry D. Becker*

SURVEYED	3/10/88
DRAWN	3/12/88
CHECKED	3/12/88

**ENERGY SURVEYS & ENGINEERING CORP.**

715 HORIZON DRIVE, SUITE 330  
 GRAND JUNCTION, CO 81501  
 (303) 245-7221

SCALE 1" = 1000'
JOB NO.
SHEET OF

## WELL CONTROL PLAN

1. Surface Casing: 9 5/8" O.D., 32.3#/ft., L.S., Short T&C, set at 200' or deeper, cemented with pump and plug method back to the surface or bottom of cellar.
2. Casinghead Flange: 9 5/8" x 10" - 900 series casinghead with two 2" 2000 psi L.P. outlets.
3. Intermediate Casing: 7", 20#, L.S., set at 2300' and cemented with 150 sacks.
4. Blowout Preventer: A 10" 3000 psig W.P. double gate hydraulic shaffer BOP (or equivalent) with drillpipe rams and blind rams. All fill, kill, and choke lines will be minimum of 2" 2000 psi W.P. A Grant rotating head will be used while air and mist drilling. A new rubber will be installed prior to drilling through the Dakota. BOPs will be worked daily. Blind rams will be checked during trips. BOPs will be tested to 1000 psi prior to drilling shoe joint on surface casing and intermediate casing.
5. Auxiliary Equipment: (a) Drill pipe floats will be allowed at contractor's discretion. (b) Visual monitoring of air returns will be maintained. (c) Upper kelly cock will be used. (d) Stabbing valve will be kept on floor.
6. Anticipated bottom hole pressure is less than 1000 psi at 5822' or a gradient of .172 psi/ft. or less. No abnormal temperatures or hydrogen sulfide gas are anticipated.

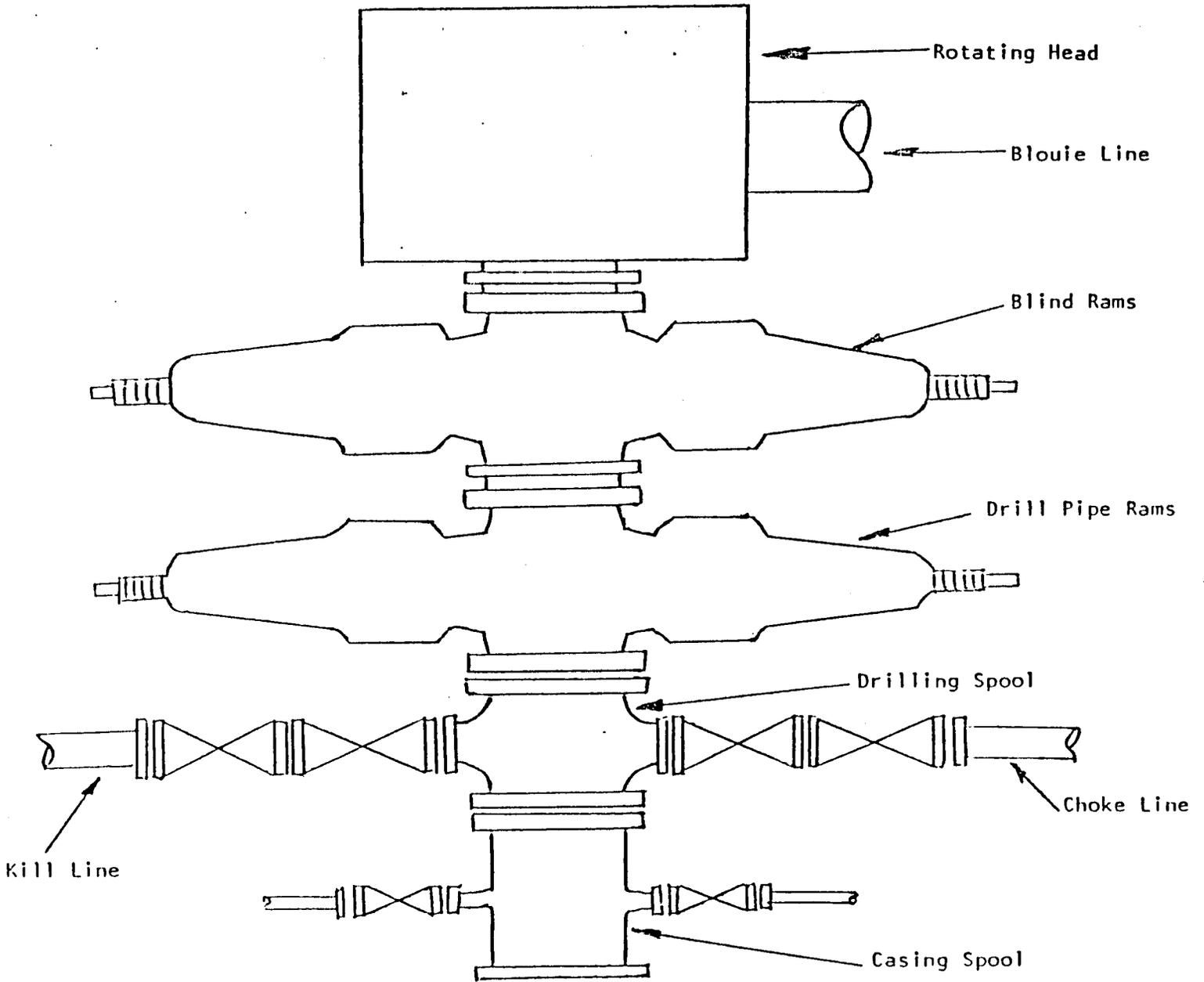
LONE MOUNTAIN PRODUCTION COMPANY

By James G. Routson  
James G. Routson  
Petroleum Engineer

SCHEMATIC OF BOP STACK

Air drilled wells using 900 series wellhead equipment.

Interval from 200' to total depth.



**Surface Use Program  
Lone Mountain Production Company  
Quinoco Federal No. 11-1  
NE $\frac{1}{4}$ NE $\frac{1}{4}$  Section 11, T17S, R24E  
Grand County, Utah**

**1. Existing Roads**

See Maps #1 and #2 and Plat #1. This proposed well is located approximately 20 miles north of the I-70 Highway Westwater Interchange atop Bryson Ridge. It is reached by going north and east 1.4 miles from the interchange to the East Canyon Road. Then turn left and go northwest 5.6 miles to the "T" intersection. Then turn right and go 10.7 miles up the Bryson Ridge Road to the beginning of the new access road which follows the Northwest Pipeline right-of-way .3 miles to the location.

The existing gravel and dirt roads are Grand County roads. Lone Mountain Production Company will share maintenance on those roads with Grand County and the other oil and gas operators in the area.

**2. Access Roads to be Constructed**

See Map #1 and Plat #2. The proposed 0.3 mile of access road which lies northerly and northeasterly of the buried 6" Northwest Pipeline follows the existing pipeline access road to the location. Upgrading, widening, etc. will be necessary along the 0.3 mile.

**3. Location of Existing Wells**

See Map #3. There are nine producing wells and one abandoned well within one mile of the proposed location.

**4. Location of Production Facilities**

a) On Well Pad. See Plat #4. (Paint everything dark green.)

**5. Location and Type of Water Supply**

The water source for this well is West Salt Creek. The pickup point is on Old Highway 6 & 50 about 2.5 miles west of Mack, Colorado. The water will be hauled over the well access road.

**6. Source of Construction Materials**

No construction materials will be used other than native materials. Soil from cuts will be used in fills. No outside material will be brought in.

7. Methods for Handling Waste Disposal

Cuttings will be buried in the reserve pit at cleanup. Garbage and other waste material will be contained in a trash cage. This cage will be dumped at an approved sanitary landfill. Human waste will be disposed of in chemically treated sanitary pits.

Drilling fluids will be contained in the reserve pit and left to evaporate. Any fluids produced during testing operations will be collected in a test tank. If a test tank is not available, the fluids will be contained in the reserve pit. Any spills of oil, gas, salt water, or noxious fluid will be cleaned up and removed.

If the well is productive, produced water will be disposed of on site for 30 days only or 90 days with the permission of the State Petroleum Engineer. After that time application will be made for approval of permanent disposal method in compliance with the rules and regulations of the State of Utah.

8. Ancillary Facilities

No ancillary facilities are planned.

9. Wellsite Layout

See Plat #2 - Pit and Pad Layout  
See Plat #2A - Cross Sections of Pit and Pad  
See Plat #3 - Rig Layout

The location will be constructed large enough to accommodate the drilling rig and associated equipment, with allowance made for future completion and fracturing equipment.

The location construction will begin by stripping and stockpiling all available (4-6") topsoil. The stockpile will be along the north and southerly ends of the location.

The reserve pit will be constructed along the southeast side of the well pad. The pit will be fenced on three sides during drilling and closed on the fourth side at rig release. The fence will be maintained through completion and while the pit area is drying.

10. Plans for Reclamation of the Surface

If the well is productive, the reserve pit will be allowed to dry and then backfilled. All of the area not necessary for production will be resloped, covered with available topsoil, and revegetated using a seed formula supplied by the Bureau of Land Management.

If the well is abandoned, the entire area of disturbance will be returned to a reasonable contour approximating the topography of the surrounding area. The topsoil will be distributed over the recontoured area and revegetated using the appropriate seed formula.

Cleanup will begin after completion rig release; and resloping should begin by the Fall of 1988.

11. Surface Ownership

All lands involving new construction are federal lands.

12. Other Information

The vegetation includes juniper, pinon, sagebrush, serviceberry, cactus, mountain mahogany, western wheatgrass, Indian rice grass, and a few annual plants.

13. Lessee's or Operator's Representatives and Certification

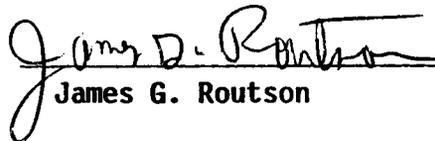
James G. Routson  
Lone Mountain Production Company  
P. O. Box 3394  
Billings, Montana 59103  
Office Phone: 406 - 245-5077  
Home Phone: 406 - 245-8797

Larry D. Becker  
Field Consultant  
739 27 Road  
Grand Junction, Colorado 81506  
Phone: 303 - 245-7221

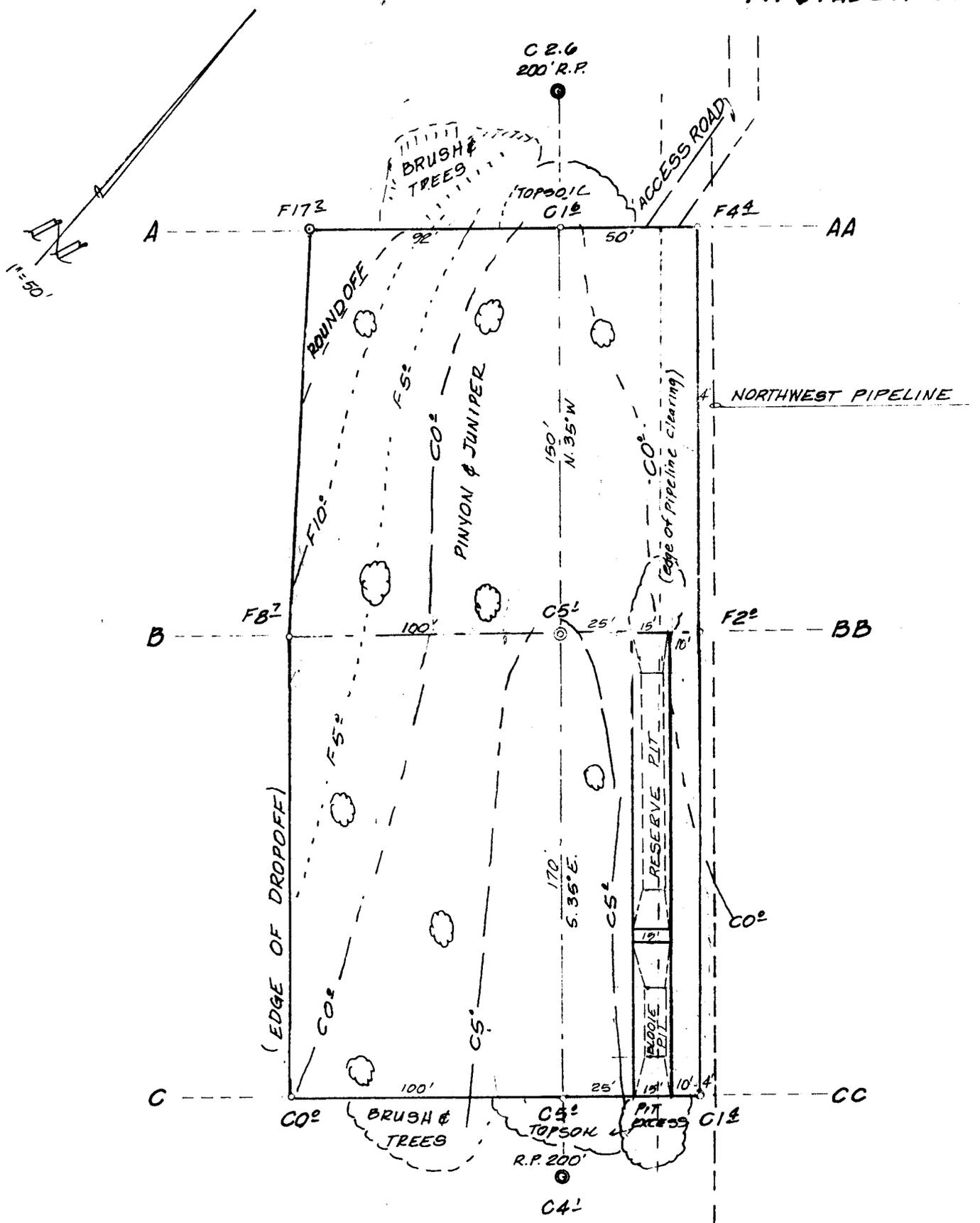
I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge true and correct; and that the work associated with operations proposed herein will be performed by Lone Mountain Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

April 18, 1988

Date

  
James G. Routson

PLAT # 2  
PIT & PAD LAYOUT



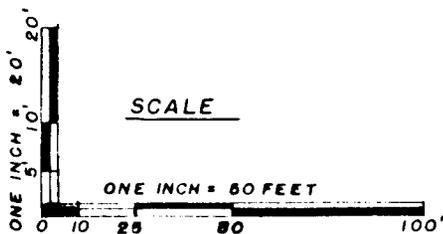
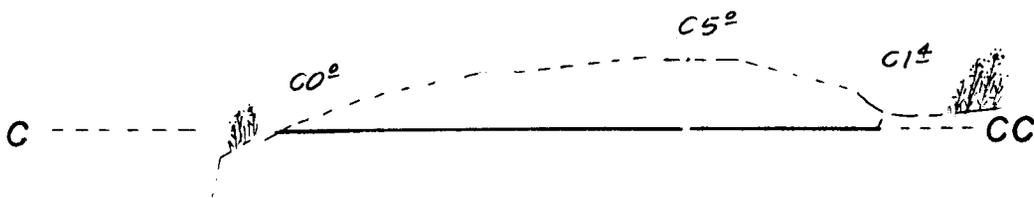
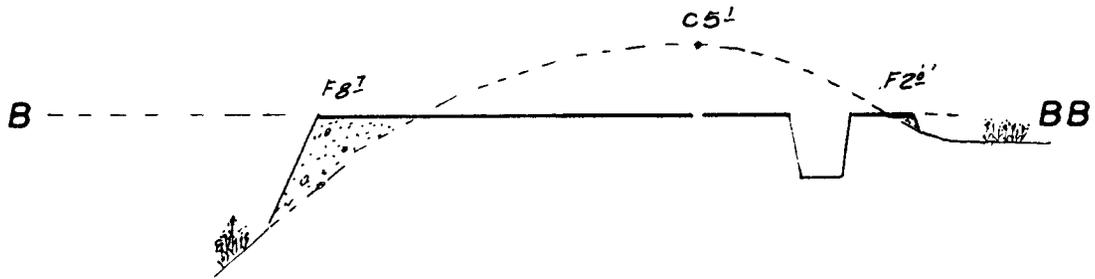
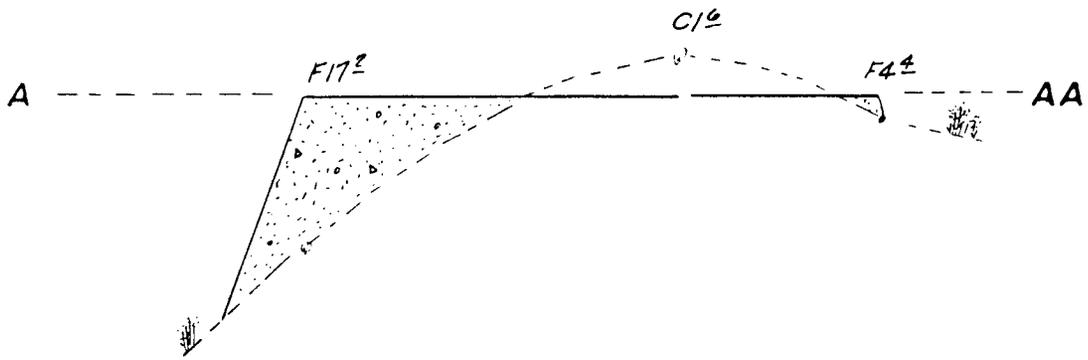
ESTIMATED EARTHWORK QUANTITIES

CUT	2900	C.Y.
FILL	2900	C.Y.
TOPSOIL	770	C.Y.

LONE MTN. PROD. CO.  
QUINOCO FEDERAL # 11-1

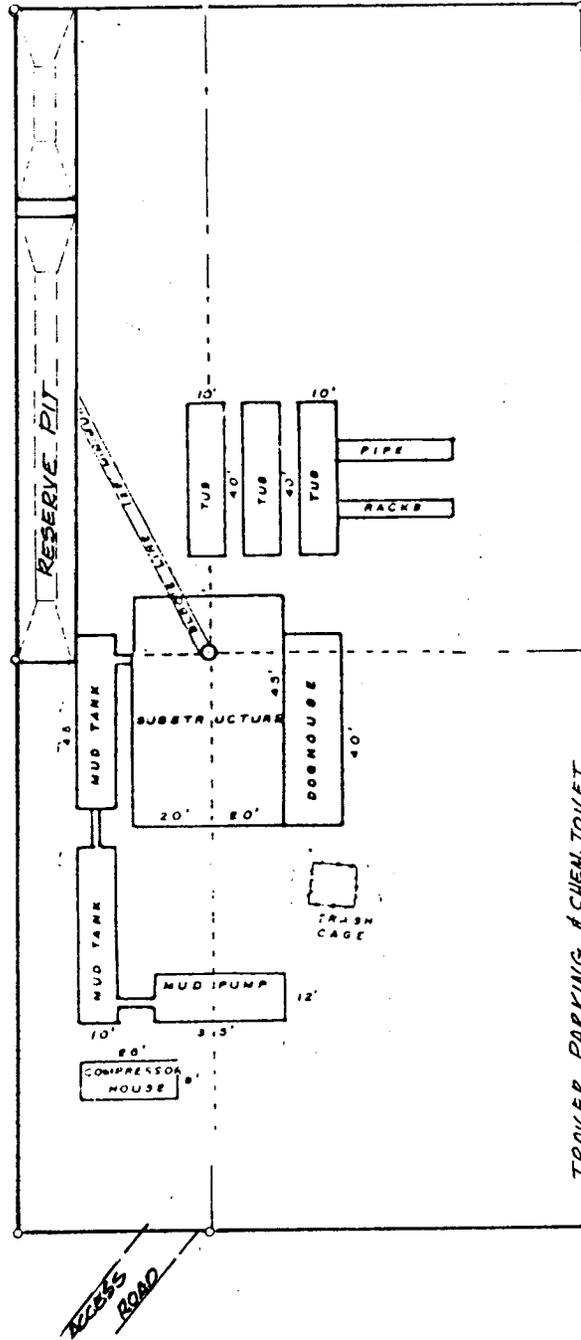
PLAT NO 2A

CROSS SECTIONS OF PIT & PAD



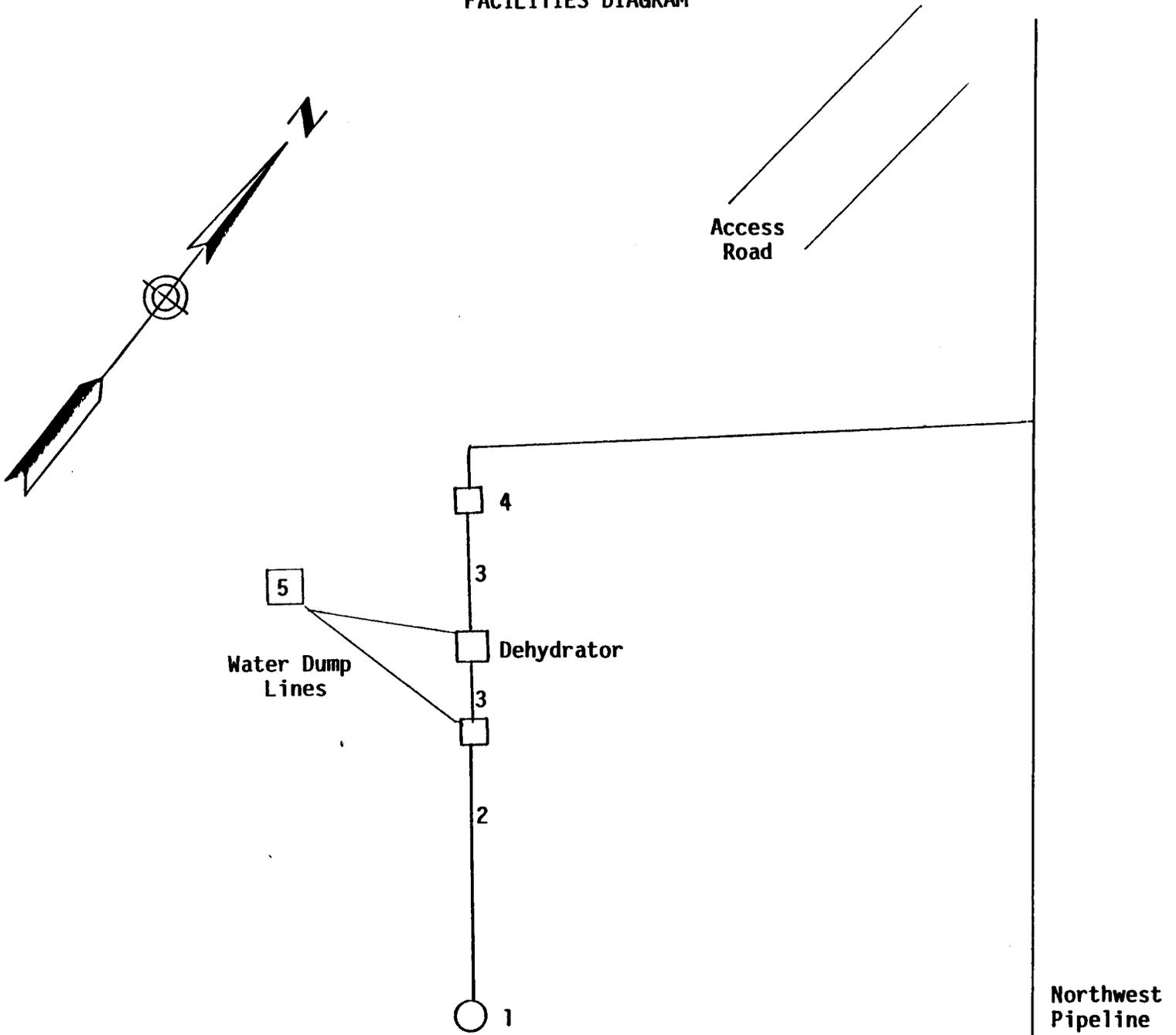
LONE MTN. PRODUCTION CO.  
QUINOCO FED. # 11-1

PLAT # 3  
RIG LAYOUT



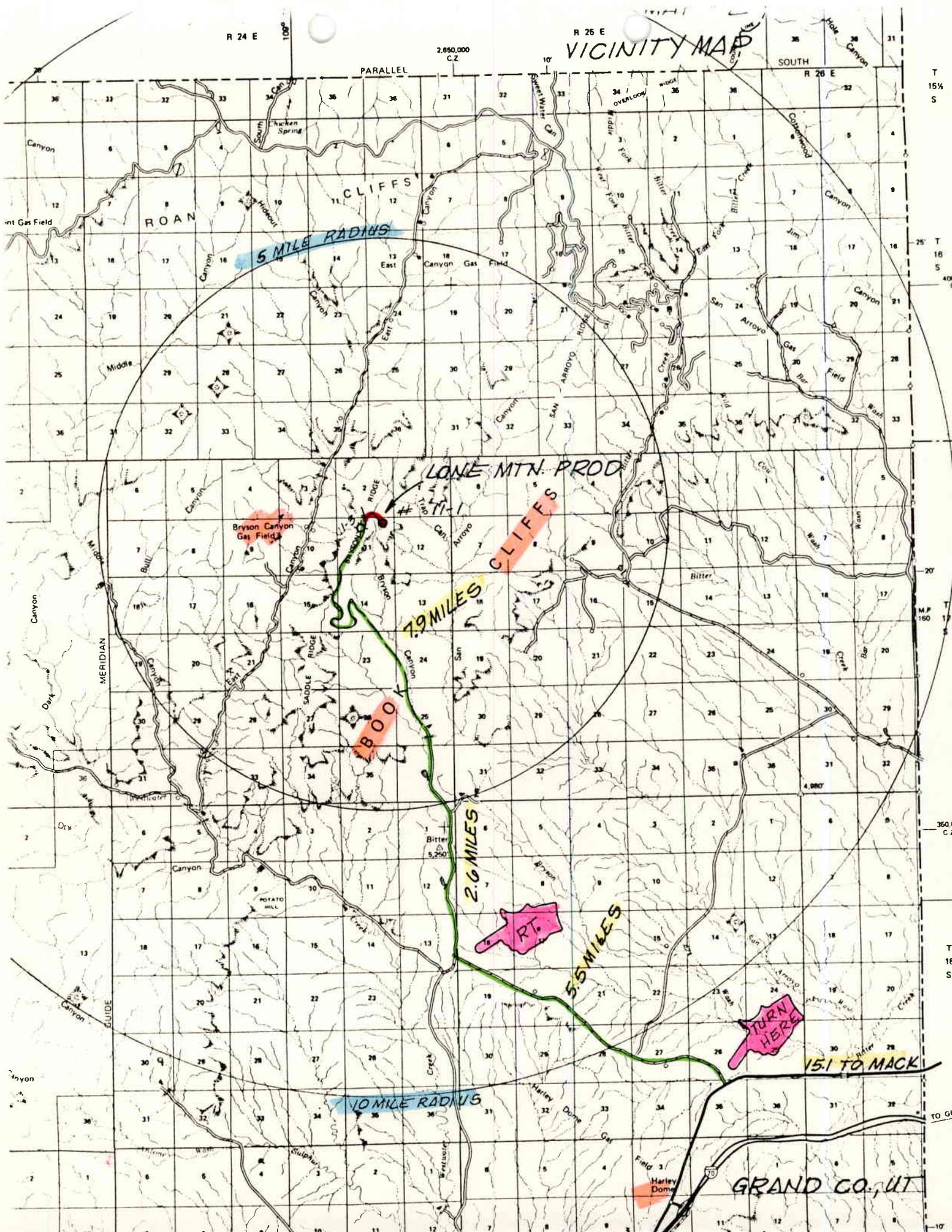
LONE MTN. PRODUCTION CO.  
QUINOCO FED. # 11-1

FACILITIES DIAGRAM



1. Wellhead will be a 6" 900 series flanged top. Tubing head will be 10" 900 x 6" 3000 psi with two 2" 3000 psi flanged valves. Tree will be 2" screwed x 200 psi W.P.
2. Line between wellhead and separator will be approximately 100 feet in length and constructed of 2 3/8" .218 wall seamless, welded, wrapped, and buried approximately 5 feet deep.
3. Line between separator and meter will be 2 3/8" OD seamless, .218 wall, welded, coated, wrapped, and buried, and will be approximately 25 feet in length.
4. Meter run will be American 2" run, or equivalent, 1000 psi static rating, 100" of water differential rating.
5. Pit, if necessary, will be 10' x 10', enclosed by dikes and fenced.





VICINITY MAP

R 24 E

R 26 E

2,860,000  
C.Z.

PARALLEL

SOUTH

R 26 E

T 15 S

T 16 S

T 17 S

T 18 S

T 19 S

T 20 S

ROAN

CLIFFS

5 MILE RADIUS

LONE MTN. PROD.

BOO

CLIFFS

7.9 MILES

2.6 MILES

5.5 MILES

10 MILE RADIUS

RT.

TURN HERE

151 TO MACK

GRAND CO., UT

Bryson Canyon Gas Field

#111

111

111

111

111

111

111

111

111

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111

111

111

111

111

111

111

111

111

111

MERIDIAN

GUIDE

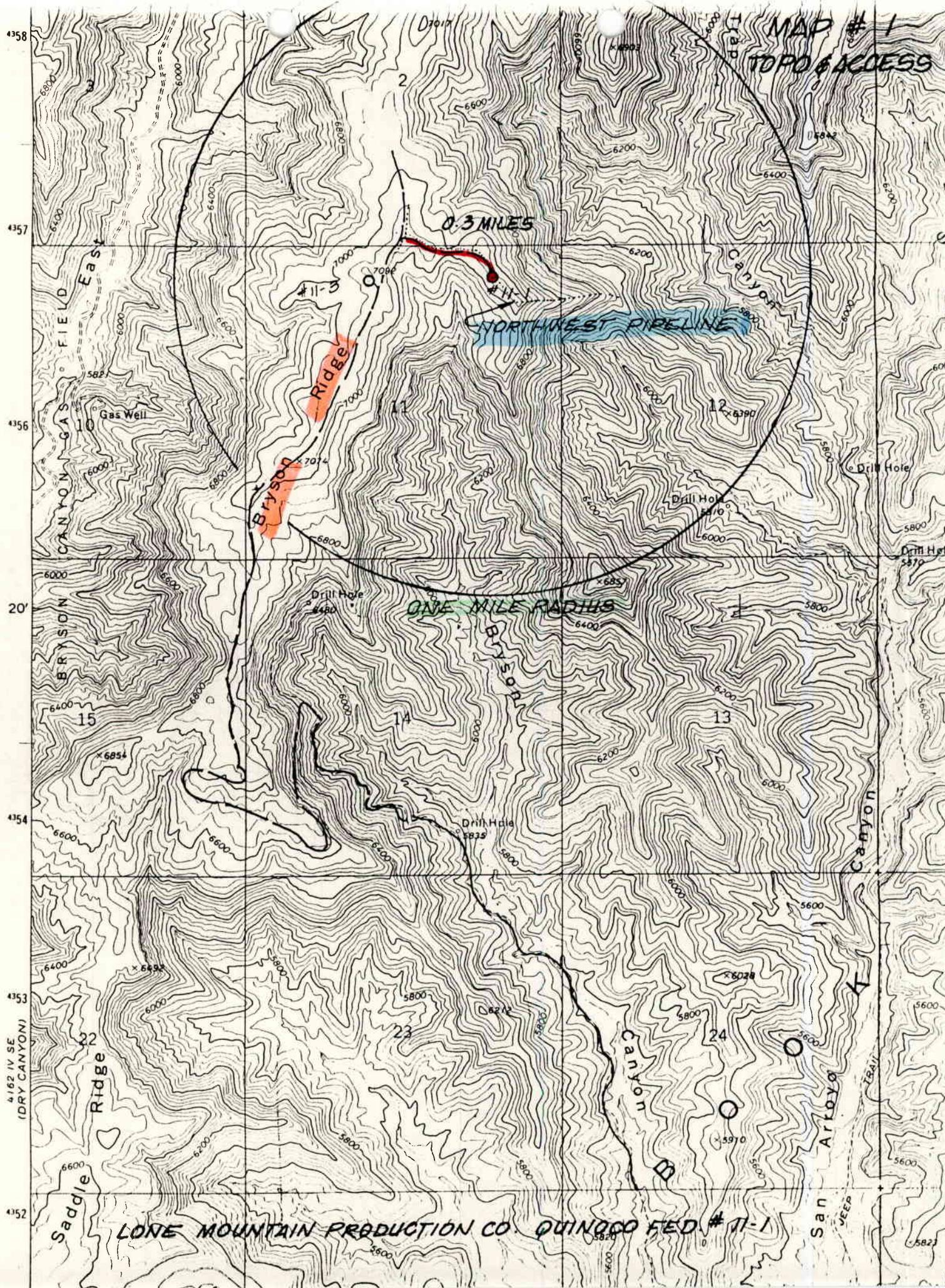
Harley Dome

360,000  
C.Z.

TO GRAV  
33

-10'

MAP # 1  
TOPO & ACCESS



LONE MOUNTAIN PRODUCTION CO. QUINOCO FED # 11-1

4162 IV SE  
(DRY CANYON)

San Arroyo  
VEEP

OPERATOR Lone Mountain Production Company DATE 4-21-88

WELL NAME Federal 11-1

SEC NENE 11 T 17S R 24E COUNTY Grand

43-019-31264  
API NUMBER

Fed.  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

OK under cause NO. 13-6  
need water permit

APPROVAL LETTER:

SPACING:  R615-2-3 \_\_\_\_\_ UNIT

R615-3-2

13-6 8-28-86  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

1- water permit



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

April 22, 1988

Lone Mountain Production Company  
408 Petroleum Building  
P. O. Box 3394  
Billings, Montana 59103

Gentlemen:

Re: Federal 11-1 - NE NE Sec. 11, T.17S, R. 24E - Grand County, Utah  
587' FNL, 1099' FEL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 13-6 dated August 28, 1986, 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 within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form OGC-8-X.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-22, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Lone Mountain Production Company  
Federal 11-1  
April 22, 1988

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-019-31264.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

1r  
Enclosures  
cc: Branch of Fluid Minerals  
D. R. Nielson  
8159T

RECEIVED  
MAY 4 1988  
SUBMIT IN THIS DATE\*  
(See instructions on reverse side)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
DIVISION OF OIL, GAS & MINING

5. LEASE DESIGNATION AND SERIAL NO.	U-21568
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
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9. WELL NO.	11-1
10. FIELD AND POOL, OR WILDCAT	Bryson Canyon
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA	NE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 11-T17S-R24E SLM
12. COUNTY OR PARISH	Grand
13. STATE	Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 Lone Mountain Production Company

3. ADDRESS OF OPERATOR  
 408 Petroleum Building, P. O. Box 3394, Billings, Montana 59103

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24. SIGNED James D. Rintoul TITLE Petroleum Engineer DATE April 18, 1988  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY /s/ GENE NODINE TITLE PERMIT ENGINEER DATE MAY 2 1988  
CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED

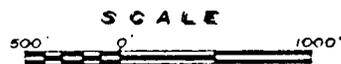
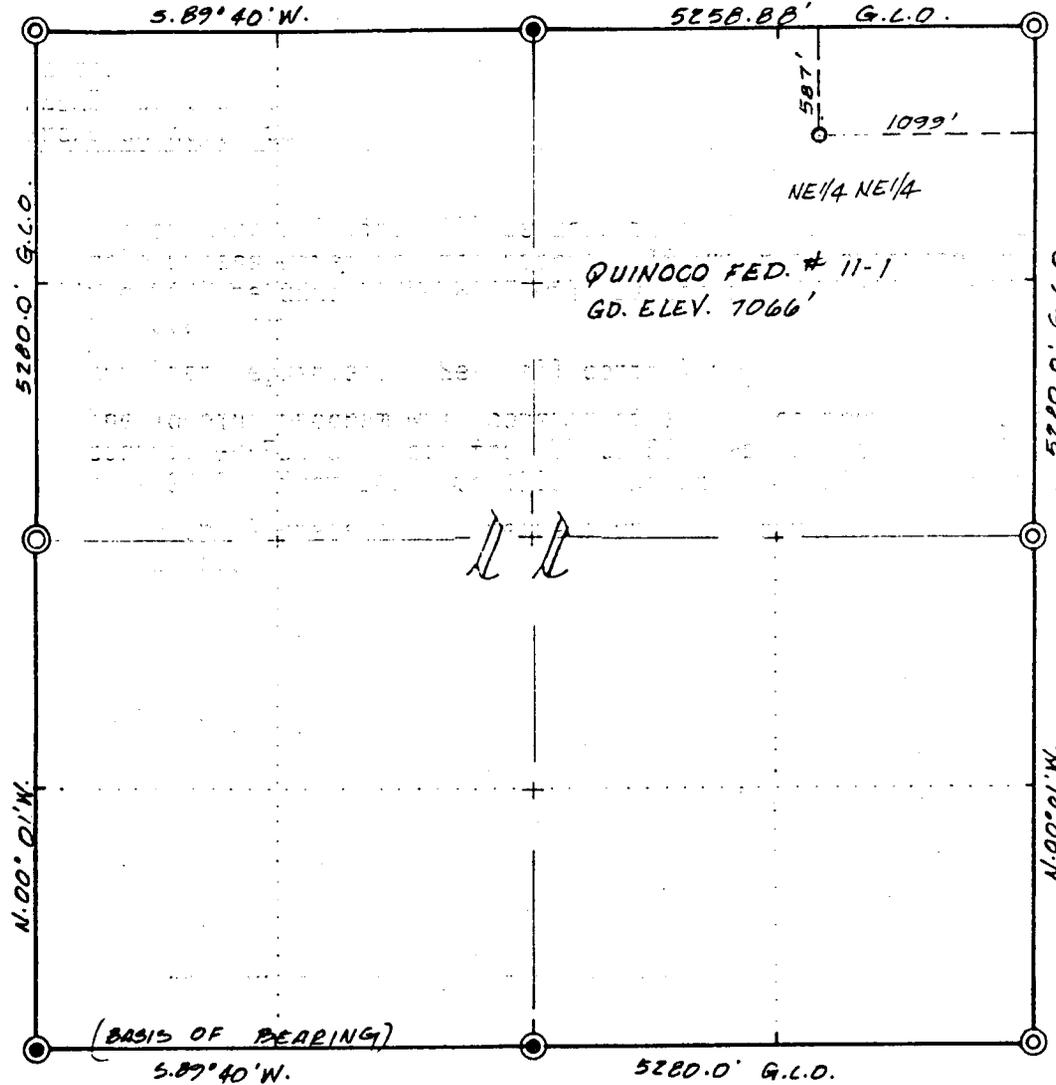
\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Docum

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SEC. 11, T. 17S., R. 24E. OF THE S.L.B.M.



- LEGEND**
- ⊙ STANDARD LOCATION OF GLO SECTION CORNERS
  - GLO CORNERS FOUND
  - WELL LOCATION STAKED.
- REFERENCE DOCUMENTS**
- 1926 GLO PLAT
  - BRYSON CANYON, UT QUADRANGLE, USGS

THIS WELL LOCATION PLAT WAS PREPARED FOR LONE MTN. PRODUCTION CO. TO LOCATE THE QUINOCO FEDERAL # 11-1, 587' F.N.L. & 1099' F.E.L. IN THE NE 1/4 NE 1/4, OF SECTION 11, T. 17S., R. 24E. OF THE S.L.B.M. GRAND COUNTY, UTAH



SURVEYOR'S CERTIFICATE

I, LARRY D. BECKER A REGISTERED LAND SURVEYOR IN THE STATE OF UTAH DO HEREBY CERTIFY THAT THIS SURVEY WAS MADE UNDER MY DIRECT SUPERVISION AND THAT THIS PLAT REPRESENTS SAID SURVEY.

*Larry D. Becker*

SURVEYED	3/10/08	ENERGY SURVEYS & ENGINEERING CORP.	715 HORIZON DRIVE, SUITE 330 GRAND JUNCTION, CO 81501 (303) 245-7221	SCALE 1" = 1000'
DRAWN	3/12/08			JOB NO.
CHECKED	3/12/08			SHEET OF

Lone Mountain Production Company  
Well No. Federal 11-1  
Sec. 11, T. 17 S.; R. 24 E.  
Grand County, Utah  
Lease U-21568

#### CONDITIONS OF APPROVAL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Lone Mountain Production Company is the bonded entity on this application. Liability will remain with the bonded party named above until we are formally notified by letter of the new bonded entity in reference to this Application for Permit to Drill.

#### A. DRILLING PROGRAM

All lease operations will be conducted in full compliance with applicable 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 and the approved plan will be made available to the field representative to insure compliance.

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 Office. If operations are to be suspended, prior approval of the District Office will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the District Office within a minimum of 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 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 Order No. 1 this well will be reported on Form 3160-6, "Monthly Report of Operations", starting with the month in which operations commence and continued each month until the well is plugged and abandoned. This report will be sent to the 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 Area Office in accordance with requirements of NTL-3A.

If a replacement rig is needed for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed for prior approval from the District Office, 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 through the District Office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted to the District Office not later than thirty (30) days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, 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.

If the well is to be completed for production the Area Office is to be contacted in order to set up a pre-production conference. When the well is placed in a producing status the District Office is to be notified by telegram or other written communication within five working days.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

No well abandonment operations will be commenced without the prior approval of the District Office. In the case of newly-drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the District Office. A Subsequent Report of Abandonment (Form 3160-5) will be sent to the District Office within 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 Office, or the appropriate surface managing agency. Upon completion of approved plugging a dry hole marker will be erected in accordance with 43 CFR 3162.6. The top of the marker will be closed or capped. The following minimum information will be permanently placed on the marker; "Fed" or "Ind", as applicable, "Lease number", "Well number", location of well by 1/41/4 section, township, and range.

## B. SURFACE USE PROGRAM

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

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

If at any time the facilities located on public lands authorized by the terms of the lease are no longer included in the lease (due to a contraction in the unit or other lease or unit boundary change) the BLM will process a change in authorization to the appropriate statute. The authorization will be subject to the appropriate rental, or other financial obligation determined by the authorized officer.

Produced waste water will be confined to an unlined pit. During the ninety (90) day period, an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NTL-2B).

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

Gas meter runs for each well will be located within five hundred (500) feet of the wellhead. The gas flowline will be buried from the wellhead to the meter along with any other sections occurring on the pad. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three (3) months on new meter installations and at least quarterly thereafter. The Area Manager will be provided with a date and time for the initial meter calibration and all future meter-proving schedules. A copy of the meter calibration reports will be submitted to the Resource Area Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

All permanent (onsite for six (6) months or longer) structures constructed or installed (including oil well pump jacks) will be painted a flat, nonreflective, earth tone color to match the standard environmental colors, as determined by the Rocky Mountain Five State Interagency Committee. All facilities will be painted within six (6) months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded. Colors will be as follows:

Juniper Green

Prior to reseeding, all disturbed areas, including the access roads, will be scarified and left with a rough surface.

The following seed mixture will be used:

<u>Species</u>	<u>lbs/acre</u>
<u>Grasses</u>	
Blubunch wheatgrass	2
Western wheatgrass	2
Smooth brome	2
<u>Shrubs</u>	
Fourwing saltbush	2
Mountain Mahogany	2
Winterfat	<u>2</u>
	1bs/acre 12

Broadcast seed will be applied at double the above rate.

Final location release will be issued when the seeding is shown to be successful (when perennial vegetation is established).

#### NOTIFICATIONS

Notify the Grand Resource Area, at (801) 259-8193 for the following:

2 days prior to commencement of dirt work, construction or reclamation;

1 day prior to spudding;

1 day prior to pressure testing of BOPE and/or surface casing.

Your contact with the Grand Resource Area Office is:

Jeff Robbins

Office Phone (801) 259-8193  
Home Phone (801) 259-7964

Grand Resource Area office address:

Grand Resource Area  
Sand Flats Road, P.O. Box M  
Moab, Utah 84532



DIVISION OF OIL, GAS AND MINING

API NO. 43-019-31264

SPUDDING INFORMATION

NAME OF COMPANY: LONE MOUNTAIN PRODUCTION

WELL NAME: FEDERAL 11-1

SECTION NENE 11 TOWNSHIP 17S RANGE 24E COUNTY GRAND

DRILLING CONTRACTOR VECO

RIG # 2

SPUDDED: DATE 5/13/88

TIME 6:00 p.m.

HOW ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

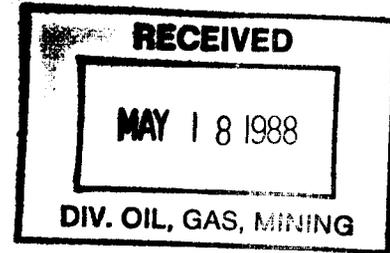
REPORTED BY JIM ROUT

TELEPHONE #

DATE 5/16/88 SIGNED JRB

**LONE MOUNTAIN PRODUCTION COMPANY**

P.O. BOX 3394  
408 PETROLEUM BUILDING  
BILLINGS, MONTANA 59103-3394  
(406) 245-5077



May 16, 1988

① TAS ✓

DIVISION OF OIL, GAS & MINING  
STATE OF UTAH  
355 W. North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

File

ATTENTION: JOHN BAZA

Dear John:

Please find enclosed a Sundry Notice Spud Report for our Federal No. 11-1 well in Section 11, T17S-R24E, Grand County, Utah. This notice is submitted in duplicate.

Yours very truly,

LONE MOUNTAIN PRODUCTION COMPANY

A handwritten signature in cursive script that reads "Jim Routson".

James G. Routson

JGR:lw

Enclosure (1)

BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NO.

U-21568

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

No. 11-1

10. FIELD AND POOL OR WILDCAT

Bryson Canyon

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

NE 1/4 NE 1/4 Sec. 11: T17S-R24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

SLM

1. OIL WELL  GAS WELL  OTHER

2. NAME OF OPERATOR  
Lone Mountain Production Company

3. ADDRESS OF OPERATOR

P. O. Box 3394, Billings, Montana 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface

587' FNL, 1099' FEL

14. PERMIT NO.

43-019-31264

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

7066' GL, 7077' KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF   
FRACTURE TREAT   
SHOOT OR ACIDIZE   
REPAIR WELL   
(Other)

PULL OR ALTER CASING   
MULTIPLE COMPLETE   
ABANDON\*   
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF   
FRACTURE TREATMENT   
SHOOTING OR ACIDIZING   
(Other)

REPAIRING WELL   
ALTERING CASING   
ABANDONMENT\*

SPUD NOTICE

(NOTE: Report results of multiple completion or 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.)

Spudded 12 1/4" hole at 6:00 PM, May 13, 1988. Drilled to 220' KB. Ran 9-5/8", 36#, J-55 casing to 216'. Cemented with 150 sacks Class "G", 3% CaCl2, 1/4# celloflake/sack. Good cement to surface.

Veco Drilling Co. Rig No. 2.

Notified Jeff Robbins, BLM, Moab, Utah at 3:30 AM, May 16, 1988.

Notified Sandy Hunt, Utah Division of Oil, Gas & Mining at 8:30 AM, May 16, 1988.

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

SIGNED

James G. Routson

TITLE

Petroleum Engineer

DATE

May 16, 1988

(This space for Federal or State office use)

APPROVED BY

TITLE

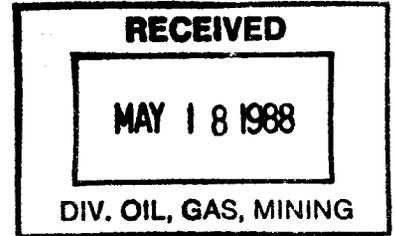
DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

**LONE MOUNTAIN PRODUCTION COMPANY**

P.O. BOX 3394  
408 PETROLEUM BUILDING  
BILLINGS, MONTANA 59103-3394  
(406) 245-5077



May 16, 1988

State of Utah  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180

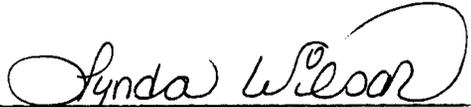
RE: Quinoco No. 11-1 Federal  
NE $\frac{1}{4}$  NE $\frac{1}{4}$  Sec. 11: T17S-R24E  
Grand County, Utah

Gentlemen:

Enclosed in duplicate is DOGM Form 6, "ENTITY ACTION FORM" for the subject well.

Yours truly,

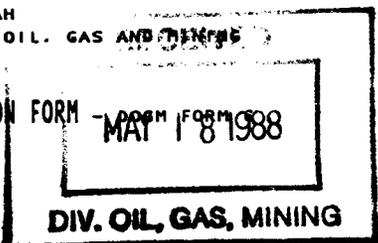
LONE MOUNTAIN PRODUCTION COMPANY

  
Lynda Wilson

/lw

Enclosures

ENTITY ACTION FORM - FORM 181988



OPERATOR Lone Mountain Production Company  
ADDRESS P. O. Box 3394  
408 Petroleum Building  
Billings, MT 59103

OPERATOR CODE N-7210  
PHONE NO. 406 245-5077

OPERATORS MUST COMPLETE FORM UPON SPUDDING NEW WELL OR WHEN CHANGE IN OPERATIONS OR INTERESTS NECESSITATES CHANGE IN EXISTING ENTITY NUMBER ASSIGNMENT.

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
A	99999	10871	43-019-31264	Federal No. 11-1	NENE	11	17S	24E	Grand	5/13/88	5/13/88
COMMENTS: Fed. Lease Field-Bryson Canyon not in a Unit Proposed Zone - MRSN other wells in section 11 are OKTA formation entity 00185 <sup>212</sup>											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											
COMMENTS:											

To be filed!  
for  
(Ort.) Well Records

- ACTION CODES: A - ESTABLISH NEW ENTITY FOR NEW WELL  
 B - ADD NEW WELL TO EXISTING ENTITY  
 C - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO ANOTHER EXISTING ENTITY  
 D - RE-ASSIGN WELL FROM ONE EXISTING ENTITY TO A NEW ENTITY  
 E - OTHER (EXPLAIN IN COMMENTS SECTION)  
 (SEE INSTRUCTIONS ON BACK OF FORM)

James G. Routson  
SIGNATURE James G. Routson  
Petroleum Engineer 5/16/88  
TITLE DATE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

(See instructions on reverse side)

Form approved.  
Budget Bureau No. 1004-0137  
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

U-21568

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Federal

9. WELL NO.

No. 11-1

10. FIELD AND POOL, OR WILDCAT

Bryson Canyon

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

NE NE Sec. 11: T17S-R24E

12. COUNTY OR PARISH

Grand

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

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

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

2. NAME OF OPERATOR  
Lone Mountain Production Company

3. ADDRESS OF OPERATOR  
P.O. Box 3394, 408 Petroleum Bldg., Billings, MT 59103

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 587' FNL, 1099' FEL  
At top prod. interval reported below Same  
At total depth Same

14. PERMIT NO. 43-019-31264 DATE ISSUED 4-22-88

15. DATE SPUNDED 5-13-88 16. DATE T.D. REACHED 5-19-88 17. DATE COMPL. (Ready to prod.) 5-20-88 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 7066' GL, 7077' KB 19. ELEV. CASINGHEAD NA

20. TOTAL DEPTH, MD & TVD 6207' 21. PLUG, BACK T.D., MD & TVD SFC 22. IF MULTIPLE COMPL., HOW MANY\* 23. INTERVALS DRILLED BY ROTARY TOOLS 0 - TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\* None 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN GR-FDC-CNL, SP-DIL mud 27. WAS WELL CORED No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8"	36# J-55	216'	12-1/4"	150 sx "G", 3% CaCl <sub>2</sub>	none
7"	20# J-55	2292'	8-3/4"	150 sx "G", 2% CaCl <sub>2</sub>	none

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
None					None		

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
50-surface	10 sx Class "G" cement.
2400 - 2200'	50 sx Class "G" cement.
5850 - 5750'	30 sx Class "G" cement.

33.\* PRODUCTION  
DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or shut-in) P&A

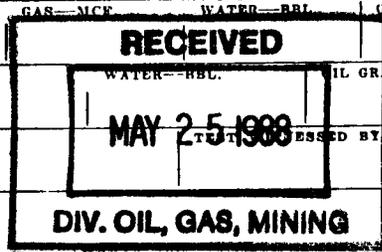
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF	WATER—BBL.	GAS-OIL RATIO

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

35. LIST OF ATTACHMENTS  
None

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

SIGNED James G. Routson TITLE Petroleum Engineer DATE May 20, 1988



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

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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, flowing and shut-in pressures, and recoveries):

38. GEOLOGIC MARKERS

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
DAKOTA	5813	5832'	Tight, gas.	CASTLEGATE	2051	(+5026)
MORRISON	6053	6060'	Tight, gas.	MANCOS	2254	(+4823)
MORRISON	6037	6047'	Tight, water, quality not determined.	DAKOTA SILT	5598	(+1479)
				DAKOTA SAND	5672	(+1405)
				MORRISON	5850	(+1227)

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING  
3 TRIAD CENTER, SUITE 350  
SALT LAKE CITY, UT 84180-1203

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Federal No. 11-1

Operator Lone Mountain Production Company Address P.O. Box 3394, Billings, MT 59103

Contractor VECO Drilling Company Address P.O. Box 1705, Grand Junction, CO 81502

Location NE 1/4 NE 1/4 Sec. 11 T. 17S R. 24E County Grand

Water Sands

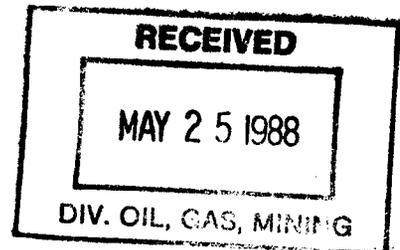
<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
From	To	Flow Rate or Head	Fresh or Salty
1. <u>No water sands encountered.</u>			
2. _____			
3. _____			
4. _____			
5. _____			

(Continue on reverse side if necessary)

<u>Formation Tops</u>				
Castlegate	2051	(+5026)	Dakota Sand	5672 (+1405)
Mancos	2254	(+4823)	Morrison	5850 (+1227)
Dakota Silt	5598	(+1479)		

Remarks

- NOTE: (a) Report on this form as provided for in Rule 806, Oil and Gas Conservation General Rules.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



**UNITED STATES DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

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

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

<p>1. <b>OIL WELL</b> <input type="checkbox"/> <b>GAS WELL</b> <input checked="" type="checkbox"/> <b>OTHER</b> <input type="checkbox"/></p> <p>2. <b>NAME OF OPERATOR</b> <b>Lone Mountain Production Company</b></p> <p>3. <b>ADDRESS OF OPERATOR</b> <b>P. O. Box 3394, Billings, Montana 59103</b></p> <p>4. <b>LOCATION OF WELL</b> (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>587' FNL, 1099' FEL</b></p> <p>14. <b>PERMIT NO.</b> <b>43-019-31264</b></p>		<p>5. <b>LEASE DESIGNATION AND SERIAL NO</b> <b>U-21568</b></p> <p>6. <b>IF INDIAN, ALLOTTEE OR TRIBE NAME</b></p> <p>7. <b>UNIT AGREEMENT NAME</b></p> <p>8. <b>FARM OR LEASE NAME</b> <b>Federal</b></p> <p>9. <b>WELL NO.</b> <b>No. 11-1</b></p> <p>10. <b>FIELD AND POOL, OR WILDCAT</b> <b>Bryson Canyon</b></p> <p>11. <b>SEC., T., R., M., OR BLK. AND SURVEY OR AREA</b> <b>NE 1/4 NE 1/4 Sec. 11: T17S-R24E</b></p> <p>12. <b>COUNTY OR PARISH</b> <b>Grand</b></p> <p>13. <b>STATE</b> <b>Utah</b></p>
<p>15. <b>ELEVATIONS</b> (Show whether DF, RT, GR, etc.) <b>7066' GL, 7077' KB</b></p>		

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

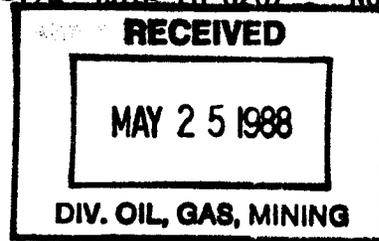
NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>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

Drilled 8-3/4" hole to 2300'. Ran 7", 20#, J-55 casing to 2292'; cemented with 150 sacks Class "G", 2% Calcium chloride. Air drilled 6-1/4" hole to 6207'. No gas shows encountered.

<b>LOG TOPS:</b>	<b>CASTLEGATE</b>	<b>2051 (+5026)</b>
	<b>MANCOS</b>	<b>2254 (+4823)</b>
	<b>DAKOTA SILT</b>	<b>5598 (+1479)</b>
	<b>DAKOTA SAND</b>	<b>5672 (+1405)</b>
	<b>MORRISON</b>	<b>5850 (+1227)</b>



Plugged and abandoned as follows: **PLUG #1: 5850' - 5750' with 30 sacks.**  
**PLUG #2: 2400' - 2200' with 50 sacks.**  
**PLUG #3: 50' - surface with 10 sacks.**

Finished plugging on May 20, 1988 at 11:00 AM.

Plugging orders received from Dale Manchester, BLM, Moab, at 12:45 AM, May 20, 1988. Plugging orders confirmed by John Baza, Utah Division of Oil, Gas & Mining on May 20, 1988 at 2:00 PM.

Rig Released May 20, 1988 at 2:00 PM.

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

SIGNED James G. Routson TITLE Petroleum Engineer DATE May 20, 1988

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side