

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE  WATER SANDS LOCATION IN USE SUB SURFACE UNIT

DATE FILED FEBRUARY 15, 1995

LAND FEE & PATENTED STATE LEASE NO ML-22061 PUBLIC LEASE NO INDIAN

DRIILING APPROVED MARCH 14, 1995

SPUDDED IN

COMPLETED PUT TO PRODUCTION

INITIAL PRODUCTION

GRAVITY API

GOR

PRODUCING ZONE

TOTAL DEPTH

WELL ELEVATION

DATE ABANDONED 950719 LA PER DOGM EFF 7-14-95

FIELD MONUMENT BUTTE FIELD

UNIT NA

COUNTY DUCHESNE

WELL NO MONUMENT BUTTE STATE #16-36 API NO. 43-013-31500

LOCATION 623' FSL FT FROM (H) (S) LINE. 848' FEL FT FROM (E) (W) LINE. SE SE 14 14 SEC 36

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
				8S	16E	36	LCM/X EXPLORATION CO

JOHNSON WATER DISTRICT  
R.R. 3 BOX 3188  
ROOSEVELT, UT 84066  
TELEPHONE (801) 722-2620

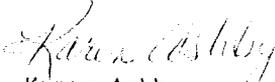
February 3, 1995

TO WHOM IT MAY CONCERN:

Lomax Exploration Company has purchased a 3 inch water connection with Johnson Water District to supply Monument Butte oilfield.

Johnson Water District has given permission to Lomax Exploration Company to use water from our system for the purpose of drilling and completing the Monument Butte State ~~16-38~~, 14-36, 16-2, and 8-2.

Sincerely,

  
Karen Ashby,  
Secretary

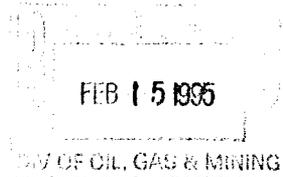
Lomax Exploration Company

P.O. Box 1446  
Roosevelt, Utah 84086  
(801) 722-5103  
FAX (801) 722-9149

February 13, 1995



State of Utah  
Division of Oil, Gas & Mining  
ATTN: Mike Hebertson  
355 West North Temple  
Three Triad Center - Suite 350  
Salt Lake City, Utah 84180-1203



RE: Monument Butte State #16-2  
SE/SE Sec. 2, T9S, R16E

Monument Butte State #16-36  
SE/SE Sec. 36, T8S, R16E

Monument Butte State #14-36  
SE/SW Sec. 36, T8S, R16E

Monument Butte #8-2  
SE/NE Sec. 2, T9S, R16E

Dear Mr. Hebertson,

Please find enclosed the original and two (2) copies of the Application For Permit To Drill, for the above referenced wells.

Please do not hesitate to call me at the Roosevelt office, if you have any questions, (801) 722-5103.

Sincerely,

A handwritten signature in black ink that reads "Brad Meckam". The signature is written in a cursive, flowing style.

Brad Meckam  
Operations Manager

bm/cc  
Enclosures

RECEIVED  
FEB 15 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Designation and Serial Number: ML-22061

6. If Indian, Aluttoo or Tribe Name:

7. Unit Agreement Name: Monument Butte

8. Farm or Lease Name: Monument Butte State

9. Well Number: #16-36

10. Field and Pool, or Wildcat:

11. Qtr/Otr, Section, Township, Range, Meridian: SE/SE Sec. 36, T8S, R16E

12. County: Duchesne 13. State: UTAH

1A. Type of Work: DRILL  DEEPEN

B. Type of Well: OIL  GAS  OTHER: SINGLE ZONE  MULTIPLE ZONE

2. Name of Operator: Lomax Exploration Company

3. Address and Telephone Number: P.O. Box 1446 Roosevelt, UT 84066 (801) 722-5103

4. Location of Well (Footages):  
At Surface: 623' FSL 848' FEL  
At Proposed Producing Zone:

14. Distance in miles and direction from nearest town or post office: 13.4 Miles NW of Myton, Utah

15. Distance to nearest property or lease line (feet): 623'

16. Number of acres in lease: 640

17. Number of acres assigned to this well: 40

18. Distance to nearest well, drilling, completed, or applied for, on this lease (feet): 2106'

19. Proposed Depth: 6500'

20. Rotary or cable tool: Rotary

21. Elevations (show whether DF, RT, GR, etc.): 5330.8'

22. Approximate date work will start: Third Quarter 1995

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24#	300'	240 sx Class G + 2% CaCl
7 7/8	5 1/2	15.5#	TD	530 sx Hilift followed by
				450 sx Class G w/ 2% CaCl

DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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. Name & Signature: Brad Mechem *Brad Mechem* Title: Operations Manager Date: 2/6/95

(This space for State use only)

API Number Assigned: 43-013-31500

Approval: *[Signature]* 3/14/95

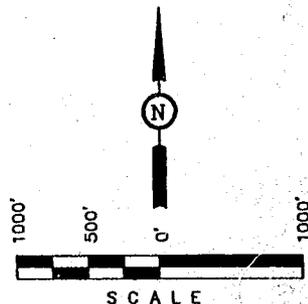
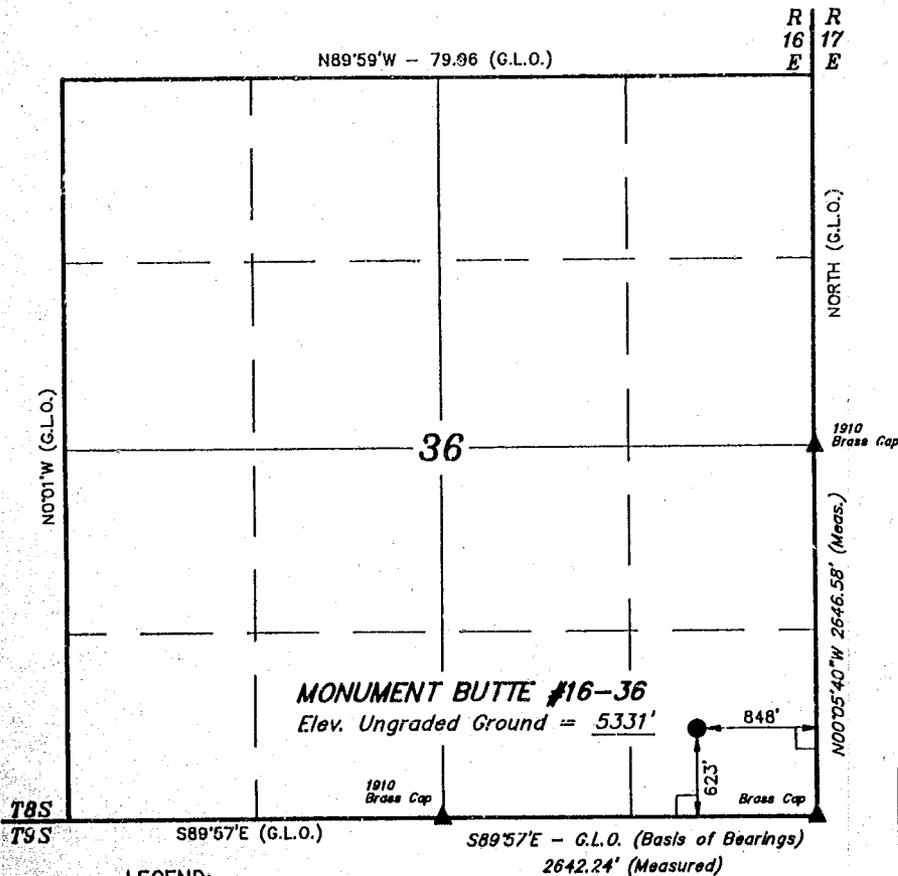
T8S, R16E, S.L.B.&M.

LOMAX EXPLORATION CO.

Well location, MONUMENT BUTTE #16-36,  
located as shown in the SE 1/4 SE 1/4 of  
Section 36, T8S, R16E, S.L.B.&M. Duchesne  
County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION  
36, T8S, R16E, S.L.B.&M. TAKEN FROM THE MYTON SE  
QUADRANGLE, DUCHESNE COUNTY, 7.5 MINUTE QUAD.  
(TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY.  
SAID ELEVATION IS MARKED AS BEING 5482 FEET.



CERTIFICATE

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

*Robert L. Kay*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 16319  
STATE OF UTAH

<b>UTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84079		
(801) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 2-2-95	DATE DRAWN: 2-6-95
PARTY B.B. D.G. / D.J.S.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE: LOMAX EXPLORATION CO.	

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

**STATE OF UTAH**

<b>Operator: LOMAX EXPLORATION</b>	<b>Well Name: MONUMENT BUTTE STATE</b>
<b>Project ID: 43-013-31500</b>	<b>Location: SE/SE SEC. 36, T088,</b>

Design Parameters:

Mud weight (10.00 ppg) : 0.519 psi/ft  
 Shut in surface pressure : 2911 psi  
 Internal gradient (burst) : 0.072 psi/ft  
 Annular gradient (burst) : 0.000 psi/ft  
 Tensile load is determined using air weight  
 Service rating is "Sweet"

Design Factors:

Collapse : 1.125  
 Burst : 1.00  
 8 Round : 1.80 (J)  
 Buttress : 1.60 (J)  
 Other : 1.50 (J)  
 Body Yield : 1.50 (B)

Length (feet)	Size (in.)	Weight (lb/ft)	Grade	Joint	Depth (feet)	Drift (in.)	Cost		
1	6,500	5,500	15.50	J-55	LT&C	6,500	4.825		
	<b>Load</b> (psi)	<b>Collapse Strgth</b> (psi)	<b>S.F.</b>	<b>Burst Load</b> (psi)	<b>Min Int Strgth</b> (psi)	<b>Yield S.F.</b>	<b>Tension Load</b> (kips)	<b>Strgth</b> (kips)	<b>S.F.</b>
1	3377	4040	1.196	3377	4810	1.42	100.75	217	2.15 J

Prepared by : KMH, Salt Lake City, UT  
 Date : 03-09-1995  
 Remarks :

Minimum segment length for the 6,500 foot well is 1,000 feet.  
 SICP is based on the ideal gas law, a gas gravity of 0.69, and a mean gas temperature of 107°F (Surface 74°F, BHT 139°F & temp. gradient 1.000°/100 ft.)  
 The mud gradient and bottom hole pressures (for burst) are 0.519 psi/ft and 3,377 psi, respectively.

**NOTE:** The design factors used in this casing string design are as shown above. As a general guideline, Lone Star Steel recommends using minimum design factors of 1.125 - Collapse (with evacuated casing), 1.0 - Burst, 1.8 - 8 Round Tension, 1.6 - Buttress Tension, and 1.5 - Body Yield. Collapse strength under axial tension was calculated based on the Westcott, Dunlop and Kemler curve. Engineering responsibility for use of this design will be that of the purchaser. Costs for this design are based on a 1987 pricing model. (Version 1.06)

**MONUMENT BUTTE STATE #16-36  
SE/SE SEC. 36, T8S, R16E  
DUCHESNE COUNTY, UTAH  
LEASE #ML-22061**

**HAZARDOUS MATERIAL DECLARATION**

LOMAX EXPLORATION COMPANY guarantees that during the drilling & completion of the above referenced well, we will not produce, store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Superfund Amendments and Reauthorization Act (SARA) of 1986.

LOMAX EXPLORATION COMPANY guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport or dispose less than the threshold planning quantity (T.P.Q.) of any extremely hazardous substances as defined in 40 CFR 355.

**LOMAX EXPLORATION COMPANY  
MONUMENT BUTTE STATE # 16-36  
SE/SE SECTION 36, T8S, R16E  
DUCHESNE COUNTY, UTAH**

**TEN POINT WELL PROGRAM**

**1. GEOLOGIC SURFACE FORMATION:**

Uinta formation of Upper Eocene Age

**2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:**

Uinta	0' - 3030'
Green River	3030'
Wasatch	6070'

**3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:**

Green River Formation 4800' - 5900' Oil

**4. PROPOSED CASING PROGRAM**

8 5/8", J-55, 24# w/ ST&C collars; set at 300' (New)  
5 1/2", J-55, 15.5# w/ LT&C collars; set at TD (New)

**5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:**

The operators minimum specifications for pressure control equipment are as follows:

A 8" Double Ram Hydraulic unit with a closing unit will be utilized. Pressure test of BOPS's will be checked daily.

(See Exhibit F)

**6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:**

It is proposed that the hole be drilled with water to the J zone and with mud there after. The mud system will be a water based gel-chemical, weighted to 10.0 ppg as necessary for gas control.

**7. AUXILIARY SAFETY EQUIPMENT TO BE USED:**

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

8. TESTING, LOGGING AND CORING PROGRAMS:

No drill stem testing has been scheduled for this well. It is anticipated at this time that the logging will consist of a Dual Induction Laterolog, Compensated Neutron-Formation Density Log. Logs will run from TD to 3500'. The cement log will be run from PBTD to cement top. The use of mudloggers to be determined at a later date.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered; nor that any other abnormal hazards such as H<sub>2</sub>S will be encountered in this area.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

It is anticipated that the drilling operations will commence the 3rd quarter of 1995 and take approximately nine (9) days to drill.

**LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

Name: Brad Mecham  
Address: P.O. Box 1446 Roosevelt, Utah 84066  
Telephone: (801) 722-5103

Certification

Please be advised that LOMAX EXPLORATION COMPANY is considered to be the operator of Well #16-36 SE/SE Section 36, Township 8S, Range 16E: Lease #ML-22061 Unit Duchesne County, Utah; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

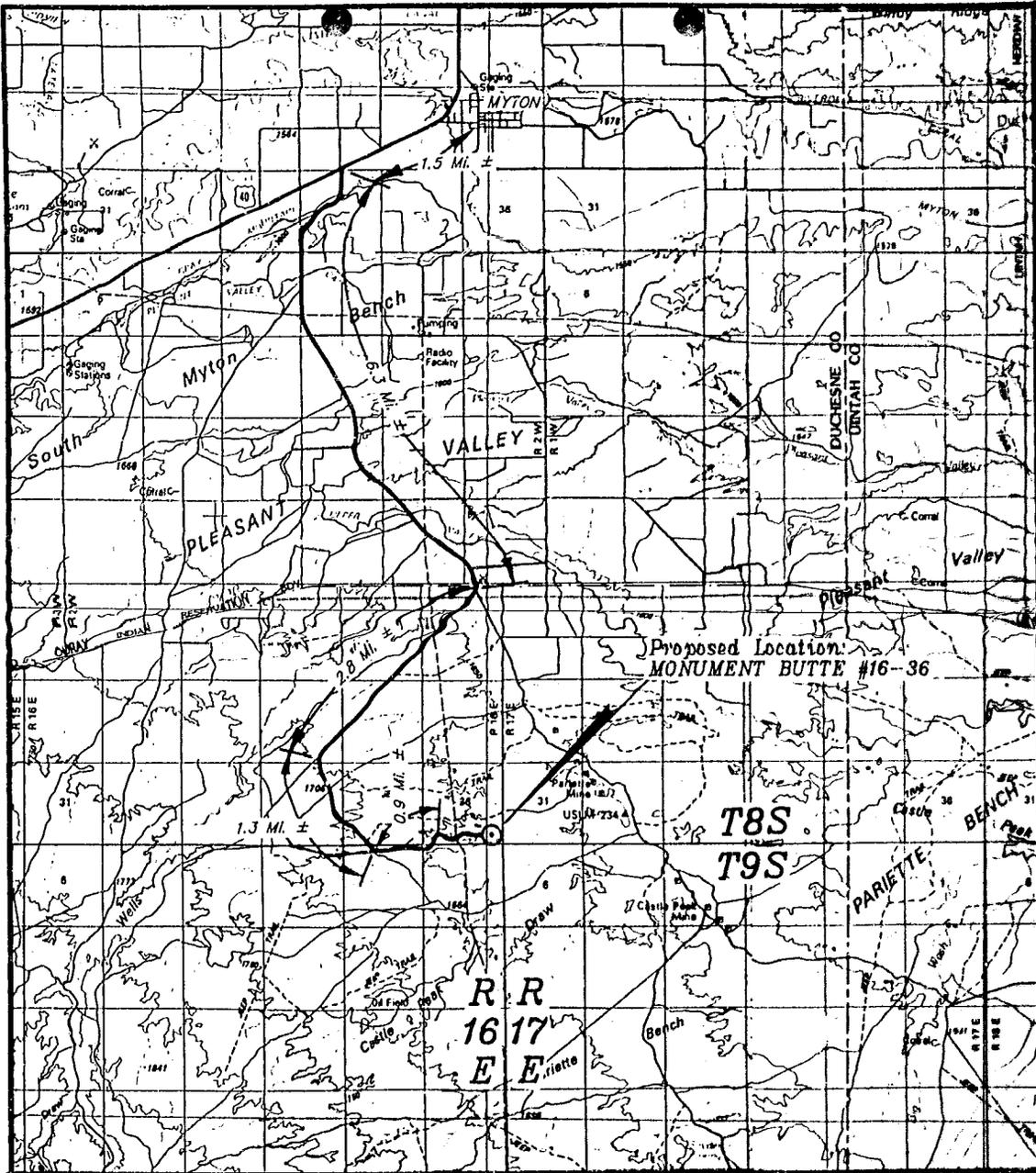
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Lomax Exploration Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

2-9-95

Date



Brad Mecham  
Regional Production Manager

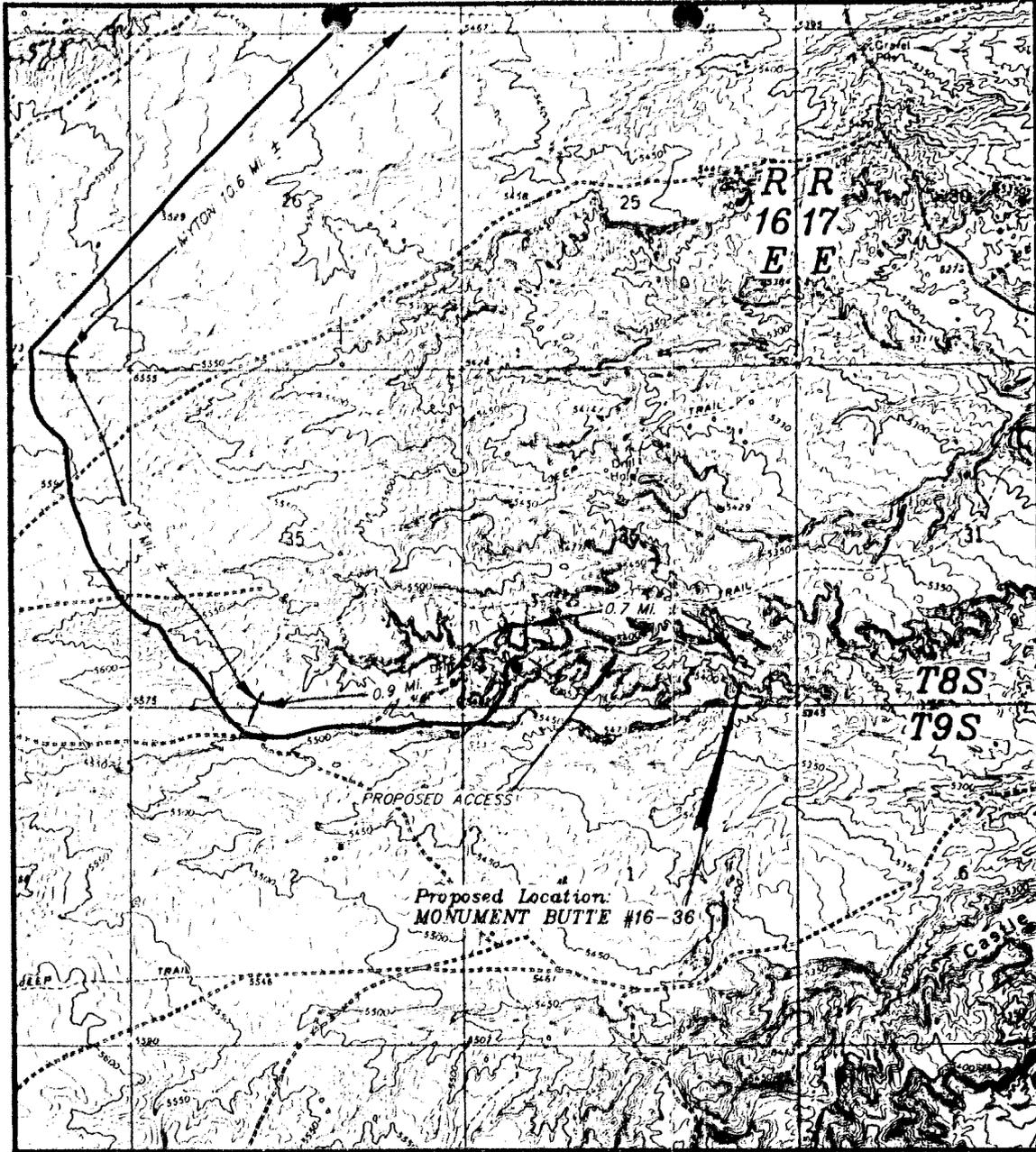


TOPOGRAPHIC  
MAP "A"



LOMAX EXPLORATION CO.  
MONUMENT BUTTE #16-36  
SECTION 36, T8S, R16E, S.L.B.&M.  
623' FSL 848' FEL

DATE: 2/6/95 D.COX



TOPOGRAPHIC  
MAP "B"

SCALE: 1" = 2000'

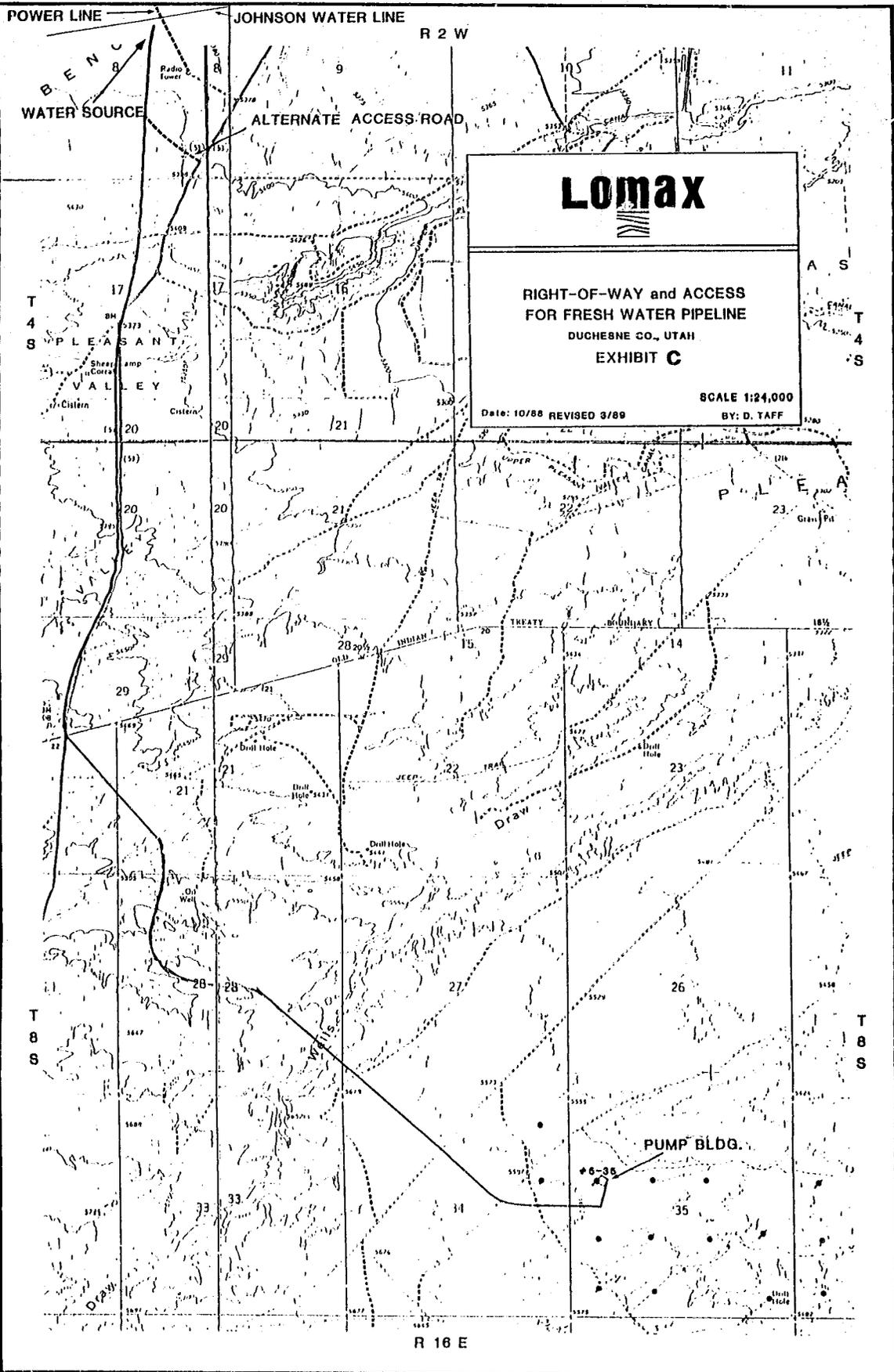
DATE: 2/6/95 D.CCX



LOMAX EXPLORATION CO.

MONUMENT BUTTE #16-36

SECTION 36, T8S, R16E, S.L.B.&M.  
623' FSL 848' FEL



**Lomax**

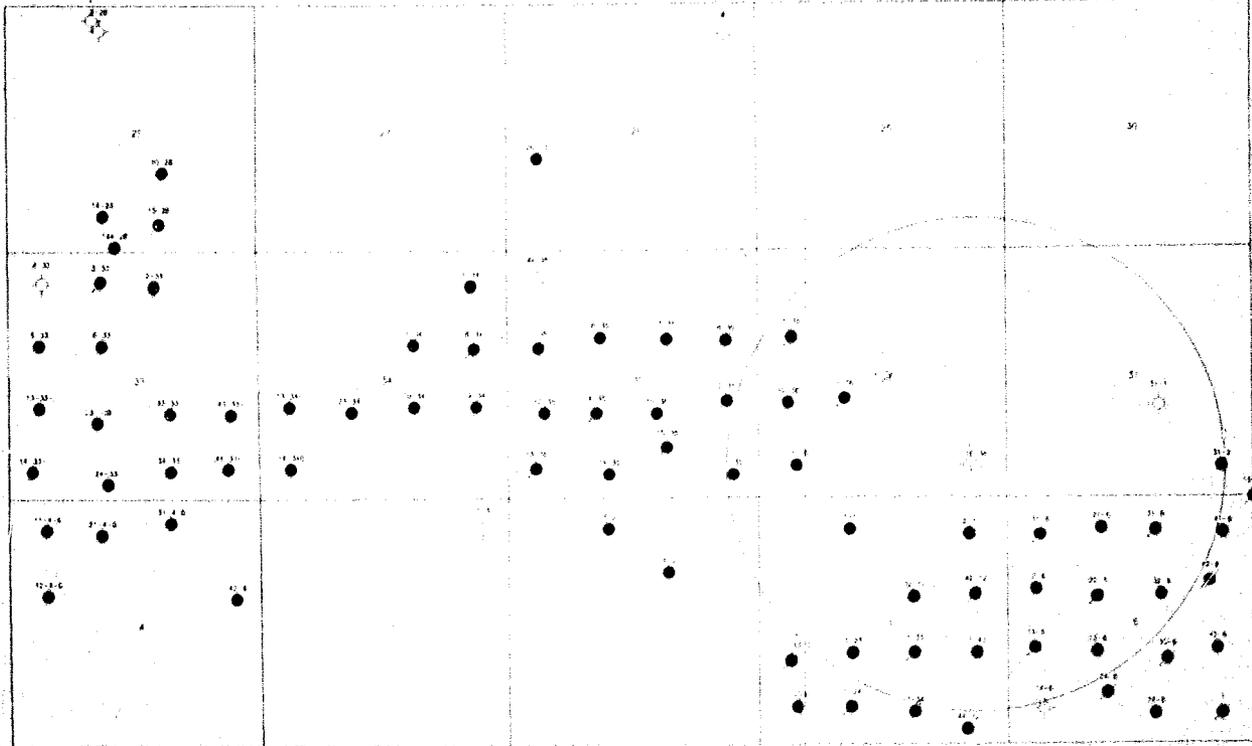
**RIGHT-OF-WAY and ACCESS  
FOR FRESH WATER PIPELINE  
DUCHEсне CO., UTAH  
EXHIBIT C**

SCALE 1:24,000

Date: 10/88 REVISED 3/89

BY: D. TAFF

R 16 E




 475 17<sup>th</sup> Street Suite 1900  
 Denver, Colorado 80202  
 Phone: (303) 292-0900  
**Monument Butte St. 16-36**  
 Duchesne County, Utah  
 Date 3-3-95 David Clarke

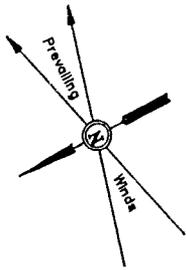
EXHIBIT "D"



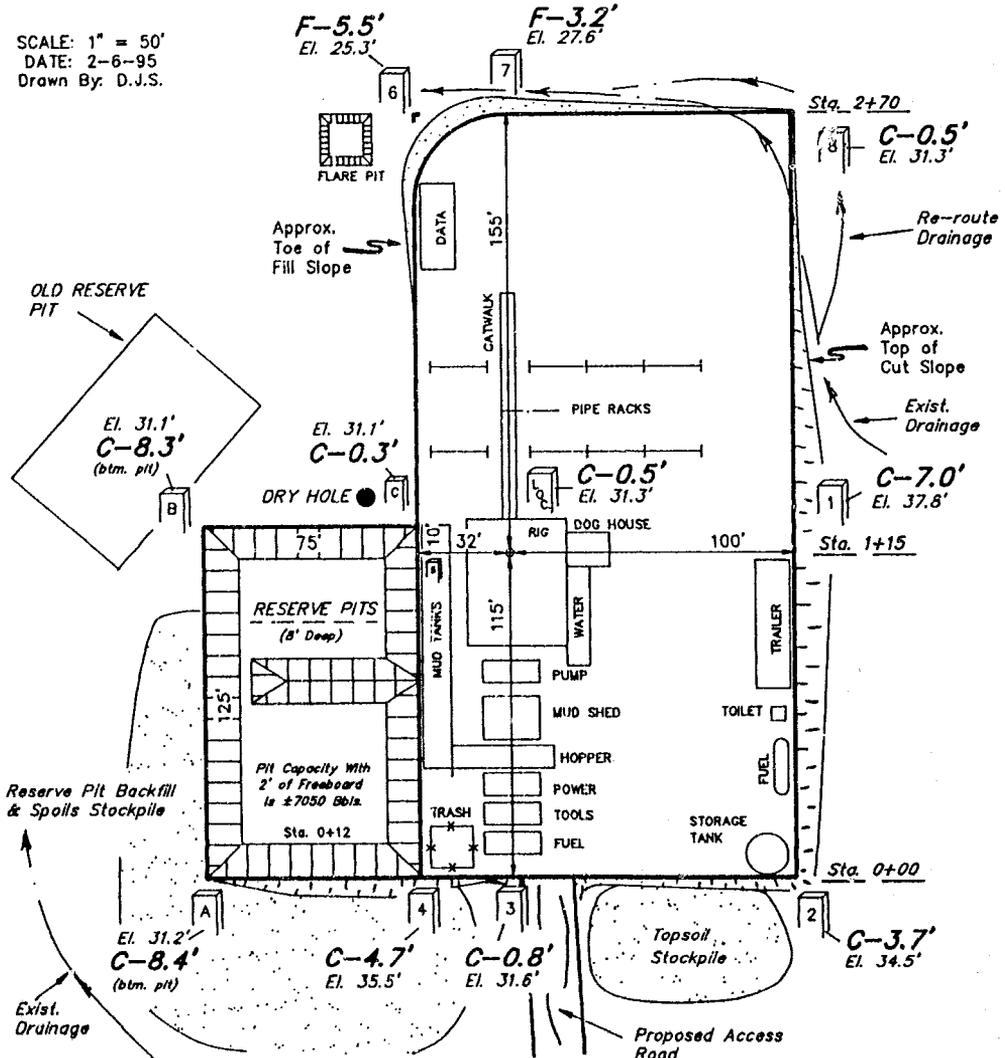
LOMAX EXPLORATION CO.

LOCATION LAYOUT FOR

MONUMENT BUTTE #16-36  
SECTION 36, T8S, R16E, S.L.B.&M.  
623' FSL 848' FEL



SCALE: 1" = 50'  
DATE: 2-6-95  
Drawn By: D.J.S.



Elev. Ungraded Ground at Location Stake = 5331.3'

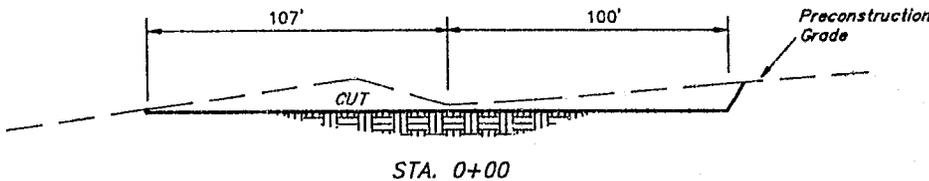
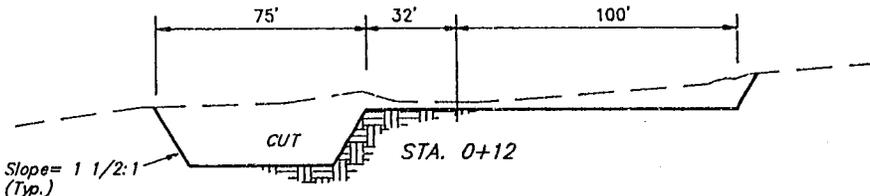
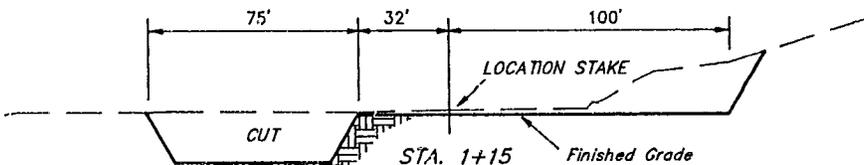
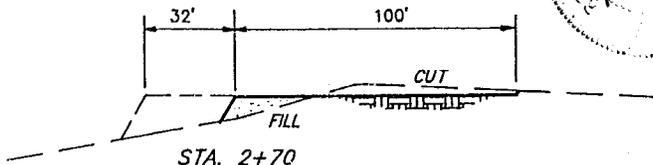
Elev. Graded Ground at Location Stake = 5330.8'

**LOMAX EXPLORATION CO.**

**TYPICAL CROSS SECTIONS FOR**

**MONUMENT BUTTE #16-36  
SECTION 36, T8S, R16E, S.L.B.&M.  
623' FSL 848' FEL.**

1" = 20'  
X-Section  
Scale  
1" = 50'  
DATE: 2-6-95  
Drawn By: D.J.S.



**APPROXIMATE YARDAGES**

(8") Topsoil Stripping = 840 Cu. Yds.  
Remaining Location = 3,990 Cu. Yds.

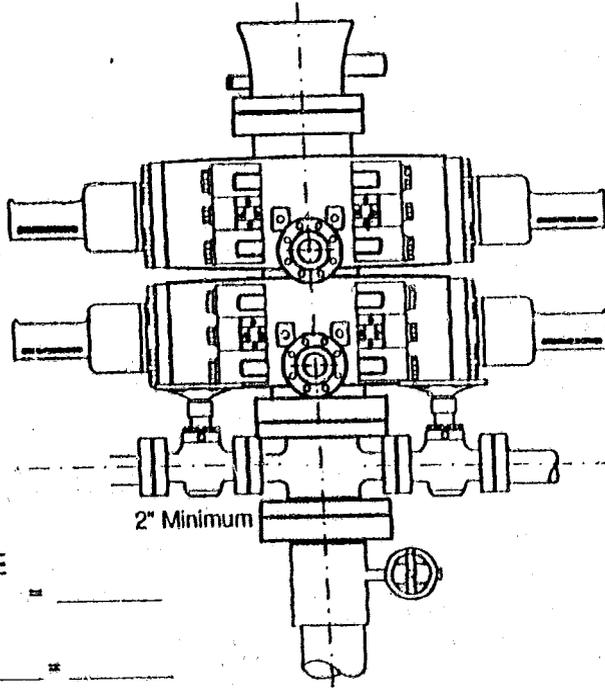
EXCESS MATERIAL AFTER 5% COMPACTION = 4,590 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 1,900 Cu. Yds.  
EXCESS UNBALANCE (After Rehabilitation) = 2,690 Cu. Yds.

TOTAL CUT = 4,830 CU.YDS.  
FILL = 230 CU.YDS.

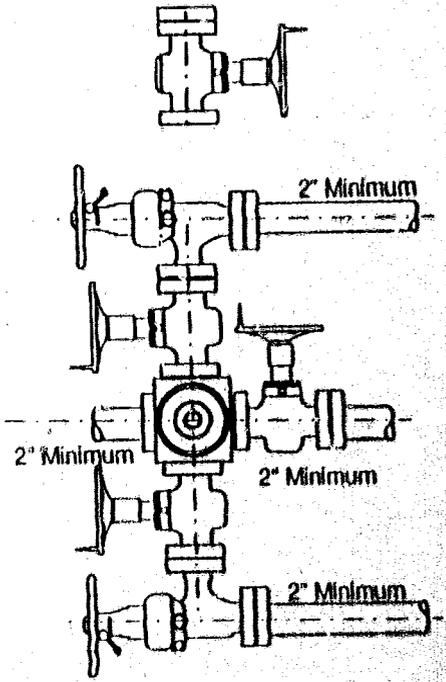
# 2-M SYSTEM

EXHIBIT F

RAM TYPE B.O.P.  
Make:  
Size:  
Model:



2" Minimum



2" Minimum

2" Minimum

2" Minimum

2" Minimum

GAL TO CLOSE  
Annular BOP = \_\_\_\_\_  
Ramtype BOP  
\_\_\_\_\_ Rams x \_\_\_\_\_ = \_\_\_\_\_  
\_\_\_\_\_ Gal.  
\_\_\_\_\_ x 2 = \_\_\_\_\_ Total Gal.

Rounding off to the next higher  
Increment of 10 gal. would require  
\_\_\_\_\_ Gal. (total fluid & nitro volume)

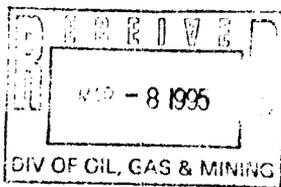
Lomax Exploration Company

P.O. Box 1446  
Roosevelt, Utah 84066  
(801) 722-5103  
FAX (801) 722-9149

March 6, 1995



State of Utah  
Division of Oil, Gas & Mining  
355 West North Temple  
Three Triad Center - Suite 350  
Salt Lake City, Utah 84180-1203



**ATTENTION: MIKE HEBERTSON**

RE: Monument Butte State # 14-36  
SE, SW Sec. 36, T8S, R16E

Monument Butte State # 16-36 42-013-31500  
SE, SE Sec. 36, T8S, R16E

Dear Mr. Hebertson,

Enclosed are the Archaeological reports for the above referenced wells

Please do not hesitate to call me at the Roosevelt office, if you have any questions,  
(801) 722-5103.

Sincerely,



Brad Meckam  
Operations Manager

Enclosures

/cc

A PALEONTOLOGICAL AND CULTURAL RESOURCES SURVEY OF  
MONUMENT BUTTE #14-36 AND MONUMENT BUTTE #16-36  
WELLS AND ACCESS ROADS, DUCHESNE COUNTY, UTAH

by

Sheri L. Murray  
Archaeologist

Kathie A. Davies  
Assistant Archaeologist

and

Alden H. Hamblin  
Paleontologist

Prepared for:

Lomax Exploration Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Prepared by:

Sagebrush Archaeological Consultants, L.L.C.  
3670 Quincy Avenue, Suite 203  
Ogden, Utah 84403

Under Authority of Utah State Antiquities Permit No. U-95-SJ-074s

Archaeological Report No. 736

March 3, 1995

## INTRODUCTION

In February 1995, Lomax Exploration Company of Roosevelt, Utah (Lomax) requested that Sagebrush Archaeological Consultants (Sagebrush) conduct a cultural resources inventory of two well pads and accompanying access roads located on Utah State lands for Lomax wells Monument Butte #14-36, and Monument Butte #16-36 in (Figure 1) Duchesne County, Utah.

The proposed wells are located in T. 8S., R. 16E., S. 36 SE $\frac{1}{4}$ S $\frac{1}{4}$ W $\frac{1}{4}$ ; T. 8S., R. 16E., S. 36 SE $\frac{1}{4}$ SE $\frac{1}{4}$ . The project area lies on USGS 7.5' Quadrangle Myton SE, Utah (1964). The project was carried out by the authors on February 2 and 3, 1995 under Utah State Antiquities Permit No. U-95-SJ-039s.

Prior to the fieldwork a file search was conducted at the Division of State History, Utah State Historical Society, and the National Register of Historic Places (NRHP) in Salt Lake City, Utah on February 1, 1995 and on February 2, 1995 at the Bureau of Land Management, Vernal District Office. The file search conducted by the authors was done to identify previous cultural resources projects, known cultural resources sites and paleontological localities near the project area.

A total of 9 individual cultural resource sites have been previously recorded in the vicinity of the current project area. Due to the large number of projects conducted in this area, individual project descriptions will not be listed. However, following is a brief description of each of the 9 cultural resource sites previously recorded near the current project area:

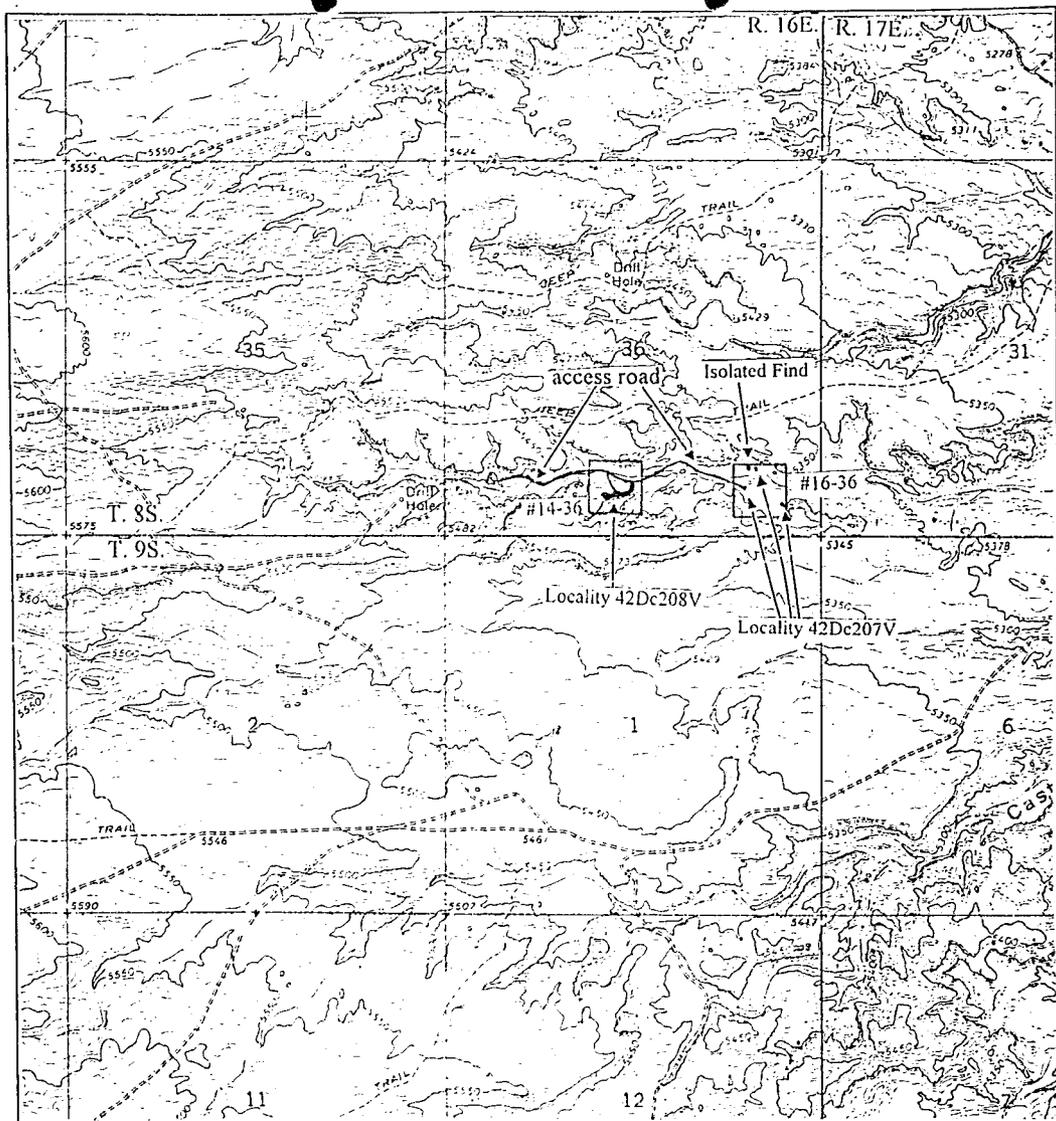
### Cultural Resources Sites

**Site 42De341.** This site, located northwest of Castle Peak Draw, is a possible lithic quarry with cores, lithic siltstone flakes, and one siltstone biface. This site was recommended NOT eligible to the NRHP.

**Site 42De351.** This site, located in Castle Peak Draw area, is a small rock shelter with associated lithic artifacts. This site was recommended ELIGIBLE for the NRHP.

**Site 42De352.** This site, located in Castle Peak Draw, is a historic cache or temporary camp. Artifacts consist of jars, cans, a bucket, and a .22 caliber rifle. This site was recommended ELIGIBLE to the NRHP.

**Site 42De426.** This site, located on the north side of a low butte northwest of Castle Peak Draw, contains both a historic and prehistoric component. The site consists of a prehistoric lithic scatter with groundstone fragments and various lithic tools including bifaces, cores, choppers, and manos. In addition to the prehistoric component, a light scatter of historic tin cans and one historic petroglyph were noted at the site. This site was recommended ELIGIBLE to the NRHP.



SCALE 1:24 000

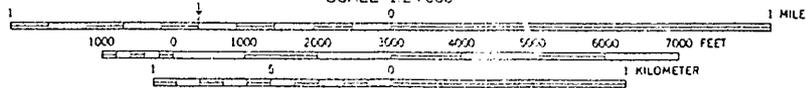


Figure 1. Location of Lomax Exploration's well Monument Butte #14-36 and Monument Butte #16-36 and associated paleontological localities. Taken from USGS Quadrangle 7.5' Myton SE (1964).

**Site 42Dc504.** This site, located in the cut of a dirt road east of Wells Draw, is a possible lithic quarry with cores and flakes. This site was recommended NOT eligible to the NRHP.

**Site 42Dc505.** This site, located in the cut of a dirt road east of Wells Draw, is a sparse lithic scatter consisting of four to five worked pieces of chalcedony. This site was recommended NOT eligible to the NRHP.

**Site 42Dc732.** This site, located in Castle Peak Draw area, is an extensive lithic scatter and surface occupation containing several hearths. This site was recommended ELIGIBLE to the NRHP.

**Site 42Dc763.** This site, located in Castle Peak Draw area, is a lithic scatter associated with a sandy bench. This site was recommended ELIGIBLE to the NRHP.

**Site 42Dc764.** This site, located in Castle Peak Draw area, is a small lithic scatter. The site was recommended NOT eligible to the NRHP.

## ENVIRONMENT

The project area lies in dissected tablelands south of Fort Duchesne on the west side of the Green River. The elevation of the project area ranges from approximately 5350 to 5482 feet a.s.l. Soils consist of light brown to buff sand, desert pavement, light green sandy silts and rust colored sandy silts. Vegetation in the survey area consists of shadscale community species including greasewood, winterfat, rabbitbrush, opuntia, buckwheat, and bunch grasses. The nearest permanent water source is located in Wells Draw which lies approximately 3 miles to the west-northwest of the project area. Natural disturbance in the area is primarily in the form of aeolian movement of sand and some water erosion. Cultural disturbance includes grazing, and a number of oil field roads which have been constructed throughout much of the project area.

## METHODOLOGY

The survey area covered during this project consists of two 10 acre parcels of land (660-by-660 ft) centered on proposed well heads and two access road corridors connecting the well locations to pre-existing access roads. The well pads were inventoried by the authors walking parallel transects spaced no more than 15 meters apart. The access roads, which totaled 4,000 ft in length, were walked in two parallel transects spaced 10 meters apart to cover a corridor width of 100 feet (30 meters) each. The areas surveyed during this project (including all well pads and access roads) totaled 29.2 acres.

## RESULTS

No cultural resource sites were found during this inventory. However, one cultural isolate was found on the northern edge of #16-36, one paleontological locality, 42Dc207V, was located on #16-36, and one other locality, 42Dc208V, was located on #14-36. (See Appendix)

### Isolate Find (IF)

One isolated find, a grey chert tertiary flake, was found on the extreme northern edge of #16-36. It was not associated with any other artifacts or features and is considered to be insignificant.

### Locality 42Dc207V

Fossil locality 42Dc207V, found on #16-36, is turtle fossil found in an outcropping of the Upper Eocene Uinta Formation. This locality has been previously bulldozed and is fragmented and scattered. This locality is considered IMPORTANT.

### Locality 42Dc208V

Fossil locality 42Dc208V, found on #14-36, is turtle fossil found in an outcropping of the Upper Eocene Uinta Formation. One specimen found is possibly "small, thin-shelled" turtle and may be almost complete. This locality is considered IMPORTANT.

## RECOMMENDATIONS

The turtle fossils found on Monument Butte #14-36 is considered a significant find. The well location is recommended for cultural clearance and will also be recommended for paleontological clearance if the well location is moved 50 ft to the north or if the "thin-shelled" turtle fossil is collected and analyzed.

The turtle fossils found on Monument Butte #16-36 have been previously bulldozed leaving the fossils fragmented and scattered. This location is recommended for cultural and paleontological clearance.

This investigation was conducted with techniques which are considered to be adequate for evaluating cultural and paleontological resources which could be adversely affected by the project. However, should such resources be discovered during construction, a report should be made immediately to the Utah State Lands and Forestry Archaeologist, Kenny Wintch, in Salt Lake City. Also, if well preserved fossil material is encountered during construction, contact needs to be made with the Paleontological office of the Utah Geological Survey in Salt Lake City, Utah.

APPENDIX

LOMAX EXPLORATION

Monument Butte State #16-36

SE SE Section 36 , T8S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN  
PALEONTOLOGIST  
235 EAST MAIN  
VERNAL, UTAH 84078

February 15, 1995

RESULTS OF PALEONTOLOGY SURVEY AT LOMAX EXPLORATION MONUMENT BUTTE 16-36,  
SECTION 36, T8S, R16E, S16&M, DUCHESNE COUNTY, UTAH.

Description of Geology and Topography-

The wellpad sits in a draw which drains to the east. The access road comes in from the west off Lomax well 13-36 and follows the drainage east past proposed 14-36 to well location. Rock exposures in the immediate area of the road and well pad are composed of interbedded sandstone and mudstone.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodylians, and occasional fish remains. Plant fossils and animal tracks are also occasionally found in the Uinta Formation.

Paleontological material found -

- Site 42DC207V

Part of the well location is on a previous wellpad. The turtle material found here had already be disturbed by a bulldozer and is fragmented a scattered.

No further recommendations for paleontological mitigation are made for this site.

William A. Hensley  
Paleontologist

February 15, 1995  
Date

LOMAX EXPLORATION

Monument Butte State #14-36

SE SW Section 36 , T8S, R16E, SLB&M

Duchesne County, Utah

PALEONTOLOGY REPORT

WELLPAD LOCATION AND ACCESS ROAD

BY

ALDEN H. HAMBLIN  
PALEONTOLOGIST  
235 EAST MAIN  
VERNAL, UTAH 84078

February 15, 1995

RESULTS OF PALEONTOLOGY SURVEY AT LOMAX EXPLORATION MONUMENT BUTTE 14-36,  
SECTION 36, T8S, R16E, SLB&M, DUCHESNE COUNTY, UTAH.

Description of Geology and Topography-

The wellpad sits in a draw which drains to the east. The access road comes in from the west off Lomax well 13-36 and follows the drainage east to the well location. Rock exposures in the immediate area of the road and well pad are composed of interbedded sandstone and mudstone.

All rock outcrops in the area are of the Upper Eocene Uinta Formation, known for its fossil vertebrate fauna of mammals, turtles, crocodylians, and occasional fish remains. Plant fossils and animal tracks are also occasionally found in the Uinta Formation.

Paleontological material found -

Site 42DC208V

There are three horizons on the south and west sides of the proposed location producing fossil turtle material. Most of this appears to be weathered and fragmented.

However, one turtle in the area of the proposed pit (100+ feet southeast of the well center stake at 142 degrees) is a small (8" X 8") thin (1/4") shelled turtle specimen which may be fairly complete. A few pieces have eroded out, but may be retrievable off the slope below. Both the plastron (bottom) and carapace (top) are there, though the specimen has been flattened.

Personnel at the Utah Field House in Vernal have been asked by one researcher to be on the look-out for "small, thin-shelled" turtles, which seem to be more rare than others in the Uinta Formation. At this point, it is not known for certain that this specimen is the type wanted, but it may be. Without collecting it for closer inspection and identification, this can't be known.

Recommendations

It is recommended that if the wellpad is constructed as staked, that this turtle be collected first. It is estimated that 3 to 4 days work might be required for collecting, preparation, research, and identification of this specimen.

Also after construction, material excavated at the location should be inspected to see if additional material was is present and salvageable. During construction, if well preserved fossil material (bones or complete turtle shells) is encountered, a paleontologist should be called to evaluate it.

Alfred A. Samblin  
Paleontologist

February 15, 1995  
Date

DRILLING LOCATION ASSESSMENT

State of Utah  
Division of Oil, Gas and Mining

OPERATOR: LOMAX EXPLORATION CO WELL NAME: MON BUTTE ST 16-36  
SECTION: 36 TWP: 08S RNG: 16E LOC: 623' FSL 848' FEL  
QTR/QTR\_SE/SE COUNTY: DUCHESNE FIELD: MONUMENT BUTTE  
SURFACE OWNER: STATE LANDS  
SURFACE AGREEMENT: AS STATED BY AGREEMENT  
SPACING: 623' F SECTION LINE 476' F QTR/QTR LINE 50' F ANOTHER WELL  
STATE SPACING ORDER NUMBER: R649-3-2  
INSPECTOR: DENNIS L. INGRAM DATE AND TIME: 2/16/95 10:30 AM  
PARTICIPANTS BRAD MECHAM (LOMAX EXPLORATION); DENNIS INGRAM  
(DOGM);

REGIONAL SETTING/TOPOGRAPHY

SITE IS LOCATED IN EAST/WEST WASH ONE MILE NORTHWEST OF CASTLE  
PEAK DRAW IN DESERT HABITAT. SAND STONE OUTCROPPINGS PROTRUDE  
FROM NORTH AND EAST CANYON WALLS WITH SOME LARGE BOULDERS IN  
CANYON FLOOR.

LAND USE:

CURRENT SURFACE USE: LIVESTOCK GRAZING AND WILDLIFE USE.

PROPOSED SURFACE DISTURBANCE: ACCESS ROAD WILL UTILIZE  
APPROXIMATELY 3700 FEET FROM WELL. PROPOSED AREA DISTURBANCE  
IS 270' BY 132' WITH AN ADDITIONAL 125' BY 75' FOR RESERVE PIT.  
AFFECTED FLOODPLAINS AND/OR WETLANDS: LEASE IS LOCATED IN FLOOR  
OF WASH BUT ANY POTENTIAL RUN-OFF CAN BE DIVERTED EASILY.

FLORA/FAUNA: GREASEWOOD, FOUR-WING SALT BRUSH, NATURAL GRASSES,  
ANTELOPE, COTTONTAIL & BLACKTAIL JACKS, COYOTE, SMALL BIRDS,  
RAPTORS, REPTILES AND INSECTS.

ENVIRONMENTAL PARAMETERS

SURFACE GEOLOGY

SOIL TYPE AND CHARACTERISTICS: SANDY LOAM WITH SOME CLAY.

SURFACE FORMATION & CHARACTERISTICS: UINTA (SOUTH FLANK)  
FORMATION OF UPPER EOCENE AGE.

EROSION/SEDIMENTATION/STABILITY: MINOR EROSION/MINOR  
SEDIMENTATION/NO STABILITY PROBLEMS.

PALEONTOLOGICAL POTENTIAL: \_\_NONE OBSERVED, BUT HAS FOSSIL \_\_  
\_\_POTENTIAL. SAGEBRUSH HAD FOSSIL INTEREST WEST OF LEASE  
SUBSURFACE GEOLOGY  
OBJECTIVES/DEPTHS: \_\_OIL PRODUCTION FROM 4800 TO 5900 FEET. \_\_  
\_\_PROPOSED DEPTH IS 6500 FEET. \_\_\_\_\_

ABNORMAL PRESSURES-HIGH AND LOW: \_\_ANTICIPATED BOTTOM HOLE \_\_  
\_\_PRESSURE IS 1800 PSI. OPERATOR DOESN'T EXPECT ABNORMAL \_\_  
\_\_TEMPERATURES OR H2S GAS DURING DRILLING OPERATIONS. \_\_\_\_\_  
CULTURAL RESOURCES/ARCHAEOLOGY: \_\_ARCH REPORT WAS SUBMITTED TO \_\_  
\_\_SALT LAKE CITY DOGM OFFICE BY SAGEBRUSH ARCH CONSULTANTS. \_\_  
CONSTRUCTION MATERIALS: \_\_NATIVE MATERIAL USING CUT AND FILL. \_\_\_\_\_

SITE RECLAMATION: \_\_AS REQUIRED BY STATE LANDS \_\_\_\_\_

#### RESERVE PIT

CHARACTERISTICS: \_\_75' BY 125' BY 8' DEEP. PIT IS LOCATED ON \_\_  
\_\_NORTH SIDE OF LEASE ALLOWING WESTERN WINDS TO CARRY VENTED \_\_  
\_\_GAS AWAY FROM WELL HEAD. \_\_\_\_\_  
LINING: \_\_12 MIL LINER IS OPTIONAL BUT MAY BE COST EFFECTIVE \_\_  
\_\_BECAUSE OF SANDY SOIL AND WATER SUPPLY. \_\_\_\_\_

MUD PROGRAM: \_\_WILL DRILL SURFACE WITH AIR/MIST, THEN WATER TO \_\_  
\_\_THE J ZONE AND MUD THERE AFTER. MUD SYSTEM WILL BE WATER BASED \_\_  
\_\_GEL-CHEMICAL, WEIGHTED AS NECESSARY TO CONTROL GAS. \_\_\_\_\_  
DRILLING WATER SUPPLY: \_\_OPERATOR HAS GAINED PERMISSION TO USE \_\_  
\_\_WATER FROM JOHNSON WATER DISTRICT. \_\_\_\_\_

#### OTHER OBSERVATIONS

\_\_PROPOSED WELL IS ON OLD WELL LEASE WITH EXISTING P&A MARKER \_\_  
\_\_(4" POST) LOCATED 30 FEET TO NORTHEAST (SEE LOCATION DIAGRAM). \_\_\_\_\_

#### STIPULATIONS FOR APD APPROVAL

\_\_DIVERTER SHOULD BE BUILT ON SOUTH AND WEST SIDE OF LOCATION TO \_\_  
\_\_KEEP RUN-OFF FROM CROSSING LOCATION (SEE PHOTO #5, SHOWS WATER \_\_  
\_\_IN LOW AREA

#### COMMENTS:

\_\_SKIDS WERE CLEAR ON VISIT WITH A 30 PERCENT SNOW COVER. \_\_\_\_\_  
\_\_OLD PIT FROM P&A WELL WAS NOT RECLAIMED BUT IS CLEAN AND DRY. \_\_\_\_\_

#### ATTACHMENTS

PHOTOS OF PRESITE VISIT



MBS # 16-36

SOUTH LOOK NORTH

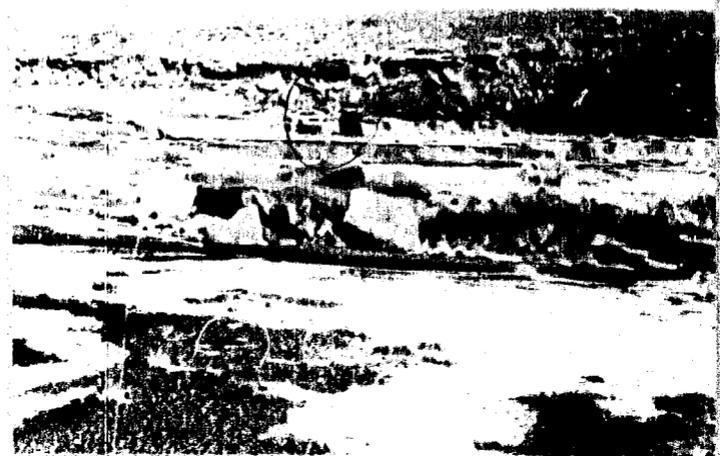
2/14/95 DJL



MBS # 15-35 11 site

EAST LOOK WEST

2/16/95 DJL



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/15/95

API NO. ASSIGNED: 43-013-31500

WELL NAME: MONUMENT BUTTE STATE 16-36  
OPERATOR: LOMAX EXPLORATION COMPANY (N0580)

PROPOSED LOCATION:  
SESE 36 - T08S - R16E  
SURFACE: 0623-FSL-0848-FEL  
BOTTOM: 0623-FSL-0848-FEL  
DUCHESNE COUNTY  
MONUMENT BUTTE FIELD (105)

INSPECT LOCATION BY: 02/17/95

TECH REVIEW	Initials	Date
Engineering		
Geology	J	3/6/95
Surface	D I	2/16/95

LEASE TYPE: STA  
LEASE NUMBER: ML-22061

PROPOSED PRODUCING FORMATION: GRRV

RECEIVED AND/OR REVIEWED:

Y Plat  
Y Bond: Federal  State  Fee   
(Number 4488944)  
N Potash (Y/N)  
N Oil shale (Y/N)  
Y Water permit  
(Number WATER INJECTION WELL)  
N RDCC Review (Y/N)  
(Date: \_\_\_\_\_)

LOCATION AND SITING:

\_\_\_ R649-2-3. Unit: \_\_\_\_\_  
 R649-3-2. General.  
\_\_\_ R649-3-3. Exception.  
\_\_\_ Drilling Unit.  
\_\_\_ Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

STIPULATIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor

Ted Stewart  
Executive Director

James W. Carter  
Division Director

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3946 (Fax)  
801-538-5312 (TDD)

March 14, 1995

Lomax Exploration Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Re: Monument Butte State #16-36 Well, 623' FSL, 848' FEL, SE SE, Sec. 36, T. 8 S.,  
R. 16 E., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Admin. R. 649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31500.

Sincerely,

R. J. Fifth  
Associate Director

ldc

Enclosures

cc: Duchesne County Assessor

Bureau of Land Management, Vernal District Office

WAPD

Operator: Lomax Exploration Company

Well Name & Number: Monument Butte State #16-36

API Number: 43-013-31500

Lease: ML-22061

Location: SE SE Sec. 36 T. 8 S. R. 16 E.

### Conditions of Approval

#### 1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

#### 2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jimmie Thompson at (801)538-5340.

Notify the Division prior to commencing operations to plug and abandon the well. Contact Frank Matthews or Mike Hebertson at (801)538-5340.

#### 3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

July 19, 1995

To: Ron Firth

From: Dennis L. Ingram

Subject: Lease visit at Administration request to Monument Butte  
State 16-36R (Re-entry)

Did follow-up visit to proposed well to check for possibly drainage problems operator might have if location is built. New well is on same location as old P&A well. New lease will utilize same drilling pad, as the previous location was not re-contoured after plugging occurred.

A berm was built uphill from location (along southwest border) that was used to catch run-off and silt. However, berm has been washed out at base and silt and rain water has run across old location.

A new diverter system needs built from location corner #4 to corner #2, then on to the south/southeast until it joins the natural drainage point (probably 30 more feet). The access road follows the wash from the west, and low water crossings will suffice. Lomax claims low water crossings work better than culverts because they just get plugged up and cause additional problems.





State of Utah  
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DIVISION OF OIL, GAS AND MINING

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355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340  
801-359-3940 (Fax)  
801-538-5319 (TDD)

July 14, 1995

Ms. Cheryl Cameron  
Lomax Exploration Company  
P.O. Box 1446  
Roosevelt, Utah 84066

Re: Monument Butte State 16-36 Well, Sec. 36, T. 8 S., R. 16 E., Duchesne County,  
Utah, API No. 43-013-31500

Dear Ms. Cameron:

Per your request, approval to drill the above referenced well is hereby rescinded. A new Application for permit to Drill must be filed with this office for approval, prior to the commencement of any future work on the subject location.

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

Sincerely,

Don Staley  
Administrative Manager  
Oil and Gas

ldc

cc: R. J. Firth  
Well file

WO1139

