

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## 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

J. Gregory Merrion &amp; Robert L. Bayless

## 3. ADDRESS OF OPERATOR

P.O. Box 1541, Farmington, NM 87401

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

790 FNL &amp; 790 FEL

At proposed prod. zone

same

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 16. NO. OF ACRES IN LEASE

2541

## 19. PROPOSED DEPTH

7260

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

160

## 20. ROTARY OR CABLE TOOLS

Rotary

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

7130' GL

## 22. APPROX. DATE WORK WILL START\*

As soon as approved

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	28#	200'	150 sacks
7-7/8"	4-1/2"	10.5#	7260'	600 sacks circulated to cover exposed Ojo Alamo.

This action is subject to administrative  
appeal pursuant to 30 CFR 290.

Will drill 11" hole to 200 ft. and set 200 ft. of 8-5/8", 28#/ft., J-55 used casing with 150 sacks Class H cement. Will drill 7-7/8" hole to 7260 ft. and run open hole logs. If appears productive will run 7260 ft. of 4-1/2", 10.5#/ft., J-55 new casing, set stage collar at 4900 ft. and cement as follows: 1st stage: 150 sacks Class H w/.6% fluid loss additive; 2nd stage: 350 sacks Class H w/2% D-79 extender followed by 100 sacks Class H. Will perforate and stimulate as required. Minimum specifications for pressure control equipment which is to be used: 10", 900 series double ram blowout preventer; schematic attached. The gas from this formation is dedicated.

## ESTIMATED TOPS

Tertiary - Surface  
Kirtland - 2400'  
Pictured Cliffs - 2650'  
Mesa Verde - 4130'

Gallup - 5825' DRILLING STOPPED  
Mancos - 6025' SUBJECT TO OIL LEASE WITH ATTACHED  
Graneros - 6750' "GENERAL RECOMMENDATIONS"  
Dakota - 7000'

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 location, and proposed and actual vertical depths. Give blowout preventer program, if any.

## 24.

SIGNED

TITLE

Operator

DATE

11-10-80

(This space for Federal or State office use)

APPROVED  
PERMIT NO. \_\_\_\_\_  
AS AMENDED

APPROVAL DATE \_\_\_\_\_

APPROVED BY  
CONDITIONS \_\_\_\_\_  
DEC 15 1980

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

for JAMES F. SIMS  
DISTRICT ENGINEER

\*See Instructions On Reverse Side

## OIL CONSERVATION DIVISION

STATE OF NEW MEXICO  
ENERGY AND MINERALS DEPARTMENTP. O. BOX 2088  
SANTA FE, NEW MEXICO 87501Form C-107  
Revised 10-1-78

All distances must be from the outer boundaries of the Section.

Operator <b>MERRION &amp; BAYLESS</b>		Lease <b>BONANZA</b>		Well No. <b>4</b>
Unit Letter <b>A</b>	Section <b>11</b>	Township <b>22N</b>	Range <b>3W</b>	County <b>Sandoval</b>
Actual Footage Location of Well:				
<b>790</b> feet from the <b>North</b> line and		<b>790</b> feet from the <b>East</b> line		
Ground Level Elev: <b>7130</b>	Producing Formation <b>Dakota</b>	Pool <b>Chacon Dakota Associated</b>	Dedicated Acreage <b>160</b> Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

Scale: 1"=1000'

## CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name  
**Robert L. Bayless**

Position  
**Co-Owner**

Company  
**Merrion & Bayless**

Date  
**November 10, 1980**

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed  
**November 8, 1980**

Registered Professional Engineer  
and Land Surveyor

**Fred B. Kerr Jr.**

Certificate No. **3950**

# SURFACE WELL CONTROL EQUIPMENT

MERRION & BAYLESS  
Bonanza #4  
Section 11, T22N, R3W  
Sandoval County, New Mexico

MERRION~BAYLESS

DRAWN BY

APPROVED BY:

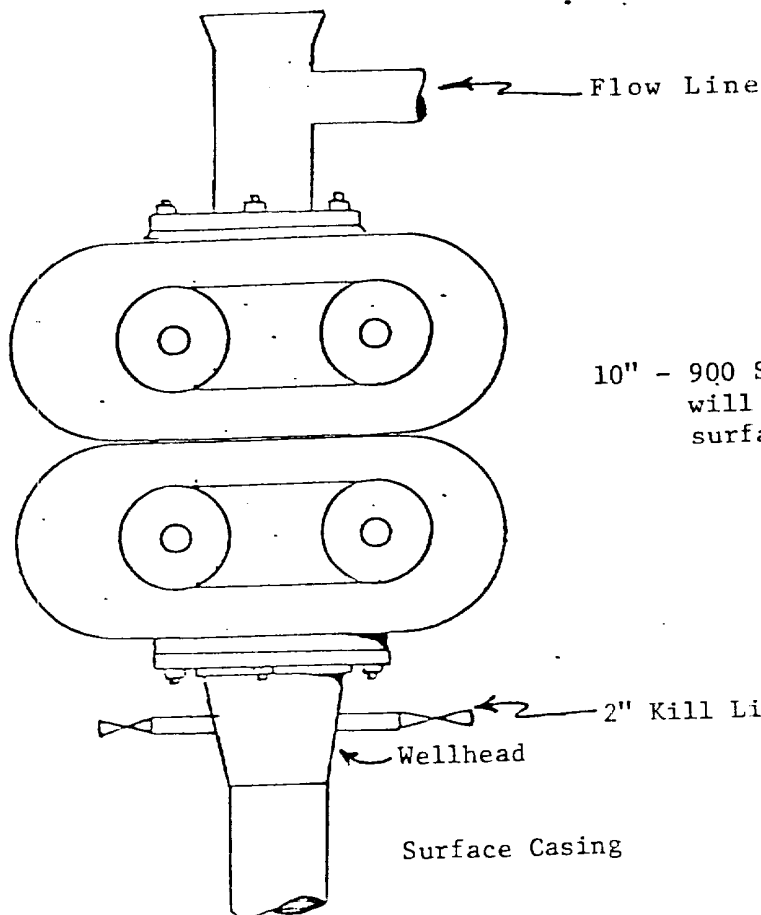
SCALE:

REVISED

DATE:

SCHEMATIC

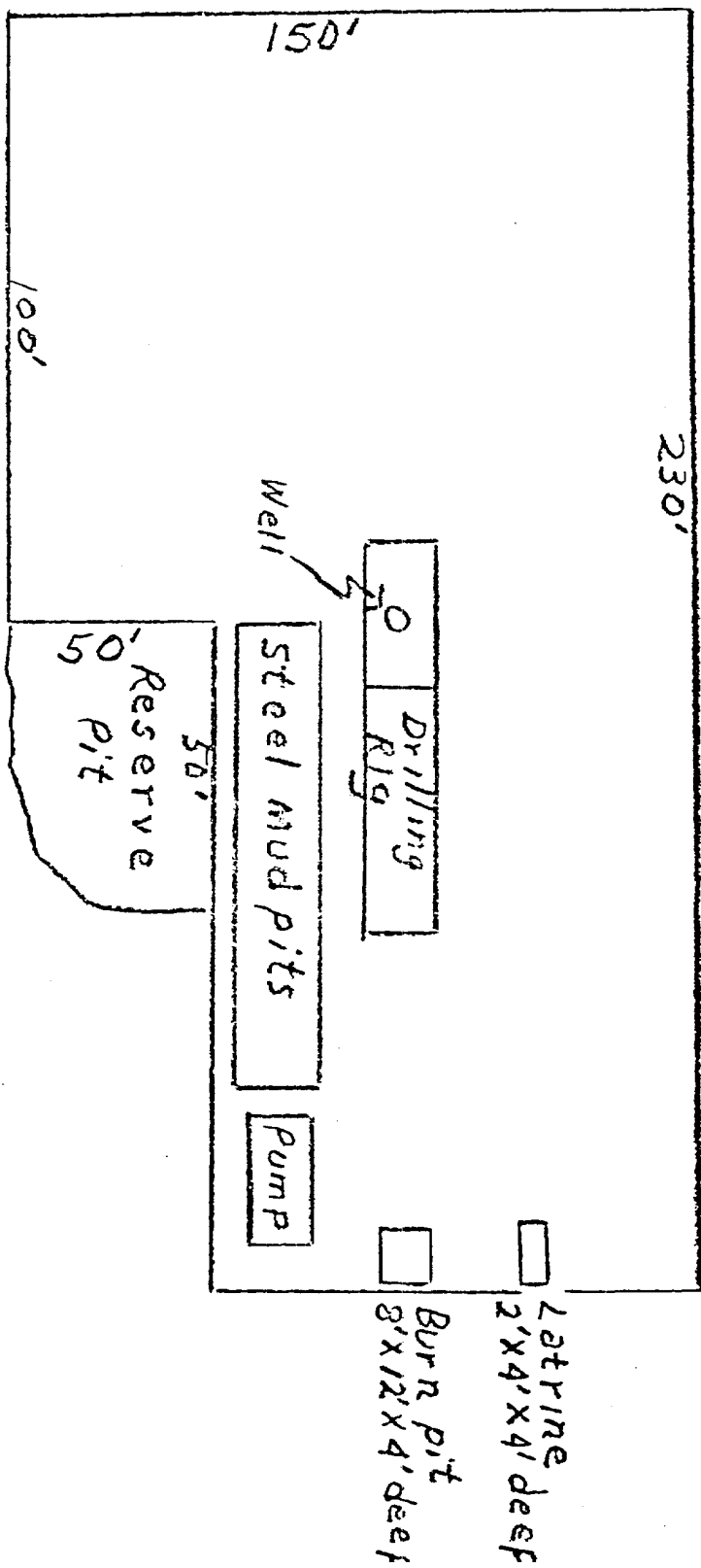
DRAWING NUMBER



10" - 900 Series Hydraulic Double Ram BOP which will be tested to 500 PSIG after setting of surface casing

LOCATION AND EQUIPMENT LAY-OUT

MERRION & BAYLESS  
Bonanza #4  
Section 11, T22N, R3W  
Sandoval County, New Mexico



SURFACE USE AND OPERATIONS PLAN

MERRION & BAYLESS

Bonanza #4

Section 11, T22N, R3W

Sandoval County, New Mex.

1 & 2. A topographical map is attached showing location of drillsite and access roads to location; approximately 750 ft. of new road is anticipated and is color coded accordingly on the map. A drive in truck mounted drilling rig will be used and will be driven in to the location with our road work. Our planned access road will be twelve feet in width, and will follow the existing terrain. No turnouts, culverts or cuts and fills are anticipated on the proposed access. In addition, natural drainage and surfacing material will be used.

3. Wells within one mile radius are shown on the topo map.

4. A. Existing facilities located within a one mile radius of the proposed location owned or controlled by the Operator and shown on the attached map:

Tank Battery and wellheads

B. Anticipated new facilities shown on the attached map:

wellhead, tank battery.

C. Rehabilitation plans for the disturbed areas no longer needed for operations and maintenance:

will follow specifications set forth by the Jicarilla Tribe

5. A. Location & type of water supply: SW/4 Sec. 13, T23N, R2W; Mobil water well.

B. Water located on    Federal,    State,   xx   Indian, or    private surface.

C. Method of transporting water: water truck.

D. Water will be hauled on proposed access route noted in item 1 & 2.

6. Source of construction materials: none required

7. Methods of Disposal of water materials: Cuttings resulting from drilling, garbage, and sewage will be buried in drilling pit; salts and chemicals are not anticipated; eventual disposal of drilling fluids and any produced oil or water recovered during testing operations will be in drilling pit and buried.

8. No ancillary facilities are anticipated.

9. Wellsite layout is attached.

10. Plans for restoration of the surface:

Will be seeded according to agreement with surface owner as soon as feasible upon completion of drilling operations.

11. Other Information:

A. Surface ownership at well location and access route: Jicarilla Apache Tribe

B. General description: rolling topography, sandy/shaley soil with sagebrush and grass;

C. General surface use activities: grazing use and wildlife habitat;

D. Environmental statement will be furnished by archeologist upon completion of

12. Operator representative:

Robert L. Bayless  
Co-Owner  
Merrion & Bayless  
P.O. Box 1541  
Farmington, NM 87401

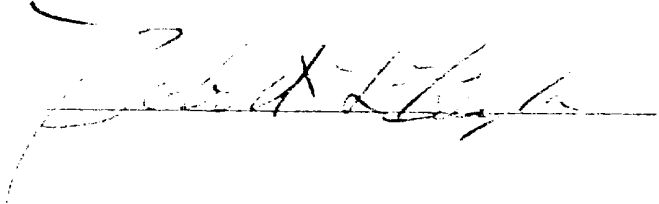
(505) 325-5093

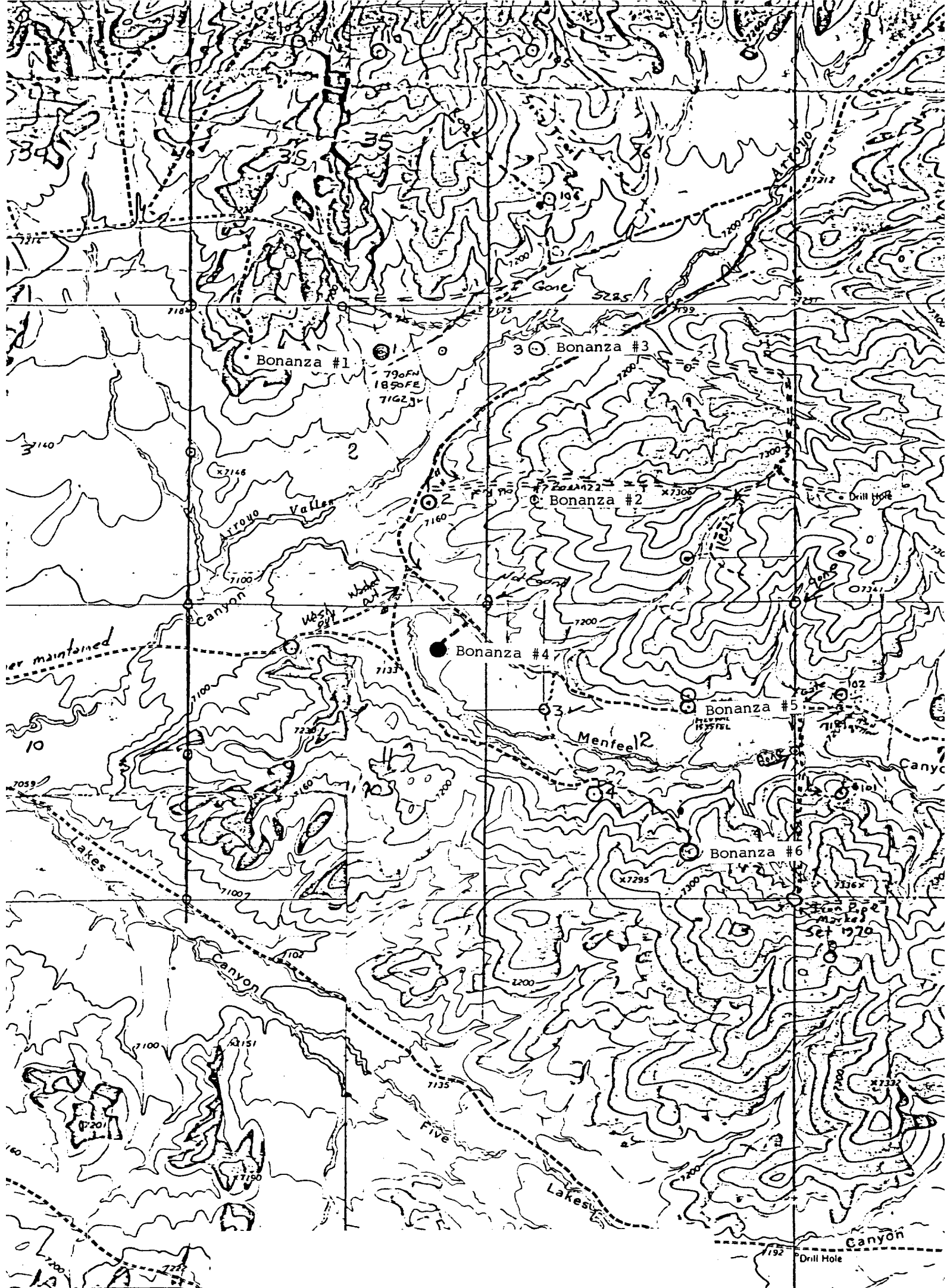
13. Certification:

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

11-10-80

DATE

A handwritten signature in dark ink, appearing to read "Robert L. Bayless", is written over a horizontal line.



● ● INTERIOR-GEOLOGICAL SURVEY WAY

ROAD CLASSIFICATION  
Heavy-duty ——— Light  
Unimproved dirt - - -  
○ State Road

MERRION & BAYLESS  
Bonanza #4  
790 FNL & 790 FEL  
Section 11, T22N, R3W  
Sandoval County, New Mexico

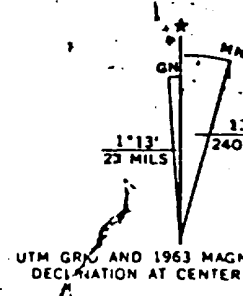
Proposed Access: - - - - -  
Existing Access: ———

R. 3 W. 250,000 FEET R. 2 W.

urvey

ne

FIVE LAKES CANYON  
N3607 5-W1070



UTM GRID AND 1963 MAGN  
DECLINATION AT CENTER