

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-21881

5. LEASE DESIGNATION AND SERIAL NO.

Jicarilla 37-B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jicarilla 37-B

9. WELL NO.

-7

10. FIELD AND POOL, OR WILDCAT

Ballard PC

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA24, T 24 N - R 5 W
NMPM

12. COUNTY OR PARISH 13. STATE

Rio Arriba N.M.

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

Ken Blackford

3. ADDRESS OF OPERATOR

P. O. Box 108, Lubbock, Texas 79408

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

At surface

1455 fwl and 2073 fnl

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)

2073'

16. NO. OF ACRES IN LEASE

1600

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.

2500'

19. PROPOSED DEPTH

2500'

20. ROTARY OR CABLE TOOLS

Rotary

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

6681 GL

22. APPROX. DATE WORK WILL START*

September 1, 1978

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	32.0 lb	100'	50 sx
6-3/4"	4-1/2"	10.5 lb.	2500'	100 sx

Drill approximately 100' of 11" hole, set 100' of 8-5/8" 32.0 lb. surface casing, circulate cement.

Drill 6-3/4 hole to 2500', set 4-1/2" 10.5 lb. casing to total depth, cement with 100 sx class B, to cover Ojo Alamo.

Run 2-3/8 tubing to 2450'.

Selectively perforate approximately 30 feet of sandstone, sand water frac, place on production.

you is dedicated

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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

B. F. Litch

TITLE

Agent - Geologist

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DURANGO, COLO.

DATE August 25, 1978

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

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*See Instructions On Reverse Side

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DURANGO, COLO.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

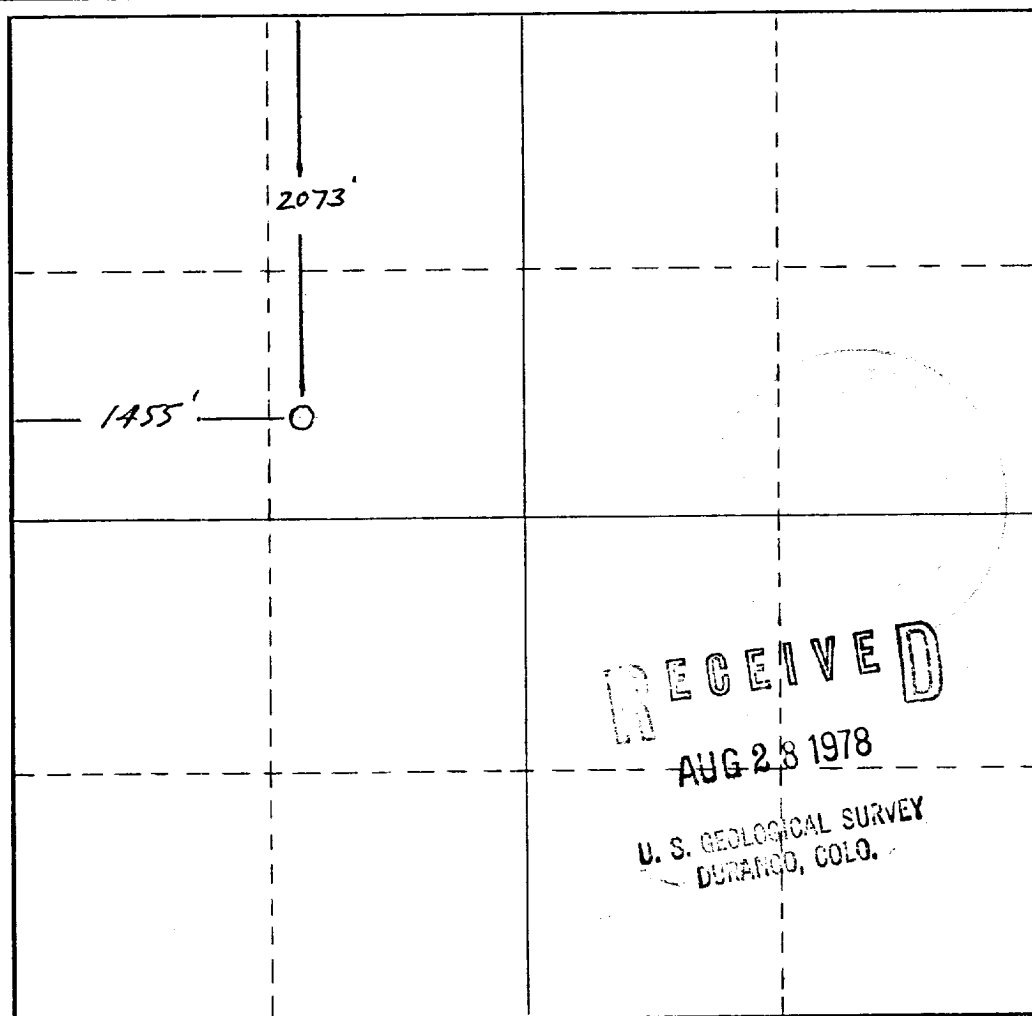
Operator Ken Blackford			Lease Jicarilla [REDACTED] 37-B		Well No. 7
Unit Letter F	Section 24	Township 24 N	Range 5 W	County Rio Arriba	
Actual Footage Location of Well: 2073 feet from the North line and 1455 feet from the West line					
Ground Level Elev. 6641	Producing Formation Kpc		Pool Ballard pc		Dedicated Acreage: 160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure 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.



CERTIFICATION

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

B. F. Latch

Name
B. F. Latch
Position
Agent
Company
Ken Blackford (Opr.)

Date
8/25/78

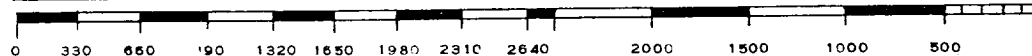
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me, or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

May 19, 1978

Date Surveyed
Frederick H. Reed
Registered Professional Engineer and/or Land Surveyor

Frederick H. Reed

Certificate No. **3795**



Operations Plan
Ken Blackford, Jicarilla 37-B-7

1. Location:

1455' fwl and 2073' fnl
Sec. 24, T 24 N - R 5 W, NMPPM
Rio Arriba County, New Mexico

2. Geology:

A. Formation tops:	T Wasatch	Spud
	T Ojo Alamo	1900
	K Kirtland	2050
	K Fruitland	2205
	K Pictured Cliffs	2370
	K Lewis	2440
	TD	2500

B. Logging program:

IES, surface casing to TD
GR-CNL-FDC-Caliper, 2500' to 1000'
GR correlation log in casing for perforations

C. Coring program:
None

3. Drilling:

- A. Rotary tools, surface to TD
- B. Surface hole with fresh water & spud mud
- C. Fresh water gel mud from surface to TD

4. Materials:

A. Casing program:

Hole size	Depth	Casing size	Wt. & Grade
11"	100'	8-5/8"	32.0 K-55
6-3/4"	2500'	4-1/2"	10.5 K-55

B. Float equipment:

Halliburton Texas pattern guide shoe for surface.

Halliburton 4-1/2" guide shoe w insert float valve
one joint above shoe.

Use four Halliburton 4-1/2" centralizers, every
other joint above shoe.

C. Tubing:

2450' of 2-3/8" 4.7 lb 8rd EUE tubing w common
pump seating nipple above perforated nipple & bull plugged
full joint for mud anchor.

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Operations Plan
Ken Blackford, Jicarilla 37-B-7

D. Well head equipment:

2000 psi test tree.

5. Cementing:

A. 8-5/8" surface casing, use 50 sx class B w 2% Ca Cl.
Yields 59 cu. ft. = 125% excess to circulate. WOC 12
hrs. test casing to 500 psi for 30 minutes.

B. 4-1/2" production casing. Precede cement w 20 bbls.
fresh water. Cement w 100 sx class B, yields 118 cubic
feet = 40% excess to cover Ojo Alamo.

6. Completion:

A. Selectively perforate approximately 30' of ss and treat
w sand water frac. Use approximately 40,000 gals. water
and 60,000 lbs. 20/40 sand.

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Multi-Point Surface Use Plan
Ken Blackford, Jicarilla 37-B-7
se/nw Sec. 24, T 24 N - R 5 W

1. Existing Road- Please refer to Map No. 1, which shows the existing roads.
2. Planned access roads- Please refer to Map No. 1. Approximately 300' of road will have to be constructed in a northeasterly direction from the existing well traveled road. The grade of the access road will be consistent with that of the local terrain. The road surface will not exceed thirty feet in width. Upon completion of the project, the access road will be properly drained to control soil erosion. Drainage facilities may include ditches, water bars, culverts, or any other measures deemed necessary by trained company personnel to secure proper drainage.
3. Location of existing wells- Please refer to Map No. 1.
4. Location of tank batteries, production facilities, and production gathering and service lines- Please refer to Map No. 1. No tank batteries are utilized in this area. Production facilities consist of a meter run which is constructed on the well site. Gathering lines are all buried and their true positions are unknown to myself although I am sure that this is a matter of record, filed by the purchaser, with the proper regulatory agencies.
5. Location and type of water supply- Water for the proposed project will be obtained from the Largo Wash.
6. Source of construction materials- No additional materials will be required to build either the access road or the proposed location.
7. Methods of handling waste materials- All garbage and trash materials will be put into a burn pit, shown on the attached location plat No. 1. When cleanup operations are begun on the proposed project, the burn pit with its refuse will be buried to a depth of at least three feet. A latrine, the location of which is shown on plat No. 1, will be provided for human wastes. If large amounts of liquids are left in the reserve pit after completion of the project, the pit will be fenced until

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- DURANGO, COLO. -

Multipoint Surface Use Plan

the liquids have had adequate time to dry. The location clean up will not take place until such time as the reserve pit can be properly covered over to prevent run off from carrying any of these materials into the watershed. No earthen pit will be located on natural drainages; all earthen pits will be so constructed as to prevent leakage from occurring.

8. Ancillary facilities- No camps or airstrips will be associated with this project.
9. Wellsite layout- Please refer to the attached plat Ex. No. 2.
10. Plans for restoration of the surface- After completion of the project, the location will be cleaned up and leveled. The location will be left in such a condition that will enable reseeding operations to be carried out. We await specific instructions as to reseeding. The reseeding operation will be performed during the time period set forth by the proper regulatory body.
11. Other information- The immediate area slopes at about seven degrees to the northeast and will require a cut of about three feet on the west side of the well pad, and a fill of about one and one-half feet on the east side of the well pad. A few head of cattle and sheep occasionally graze the proposed project site. The soil is generally sandy, and the use of explosives in constructing the well pad is not anticipated.
12. Operators representative- B. F. Latch
93 Riverview Drive
Durango, Colorado 81301
303-247-5050
13. Certification- I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Ken Blackford, (operator) and its contractors and sub-contractors in conformity with this plan.

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Multipoint Surface Use Plan

and the terms and conditions under which it
is approved.

B. F. Latch
B. F. Latch
Agent for Ken Blackford
(operator)

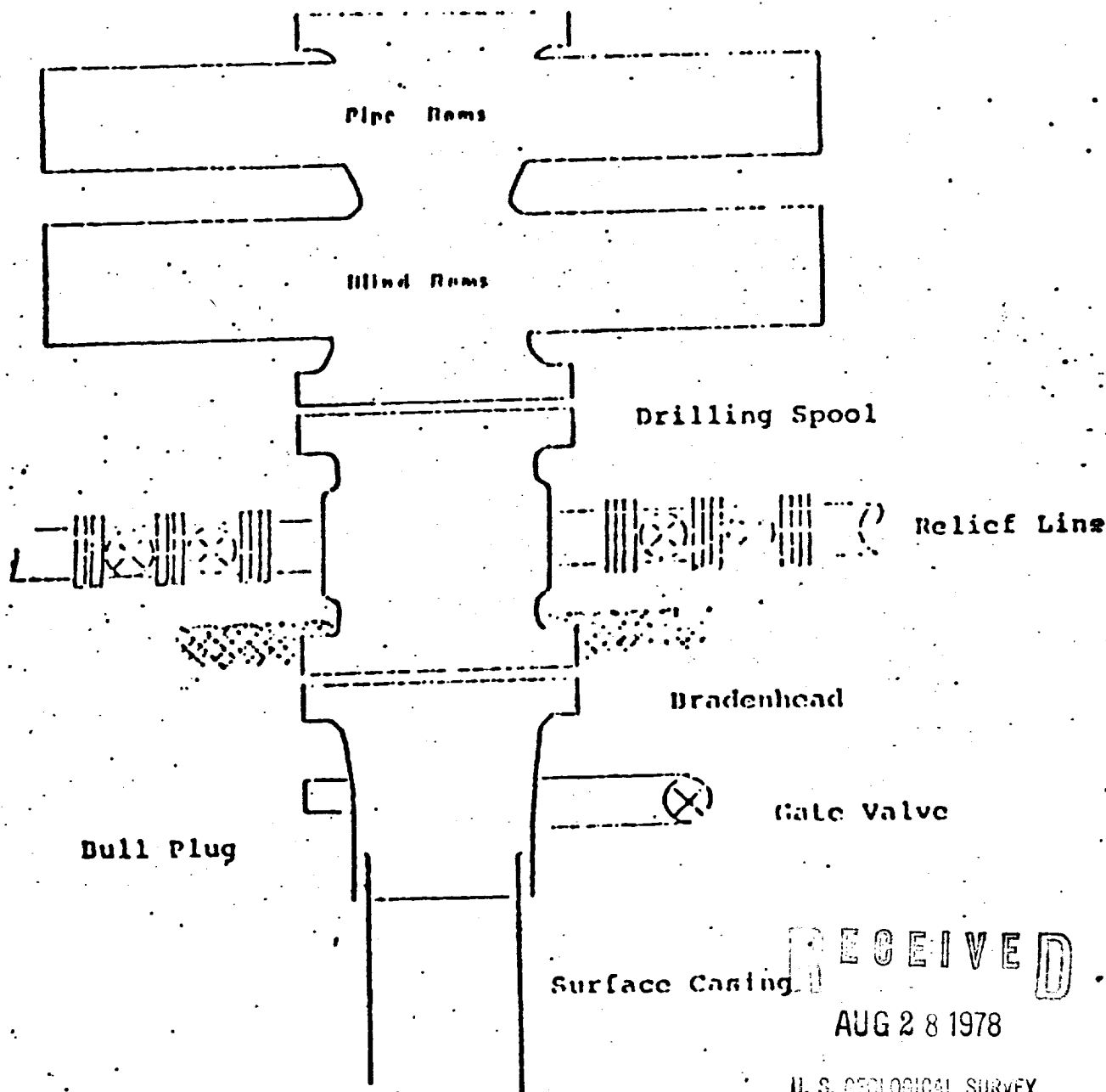
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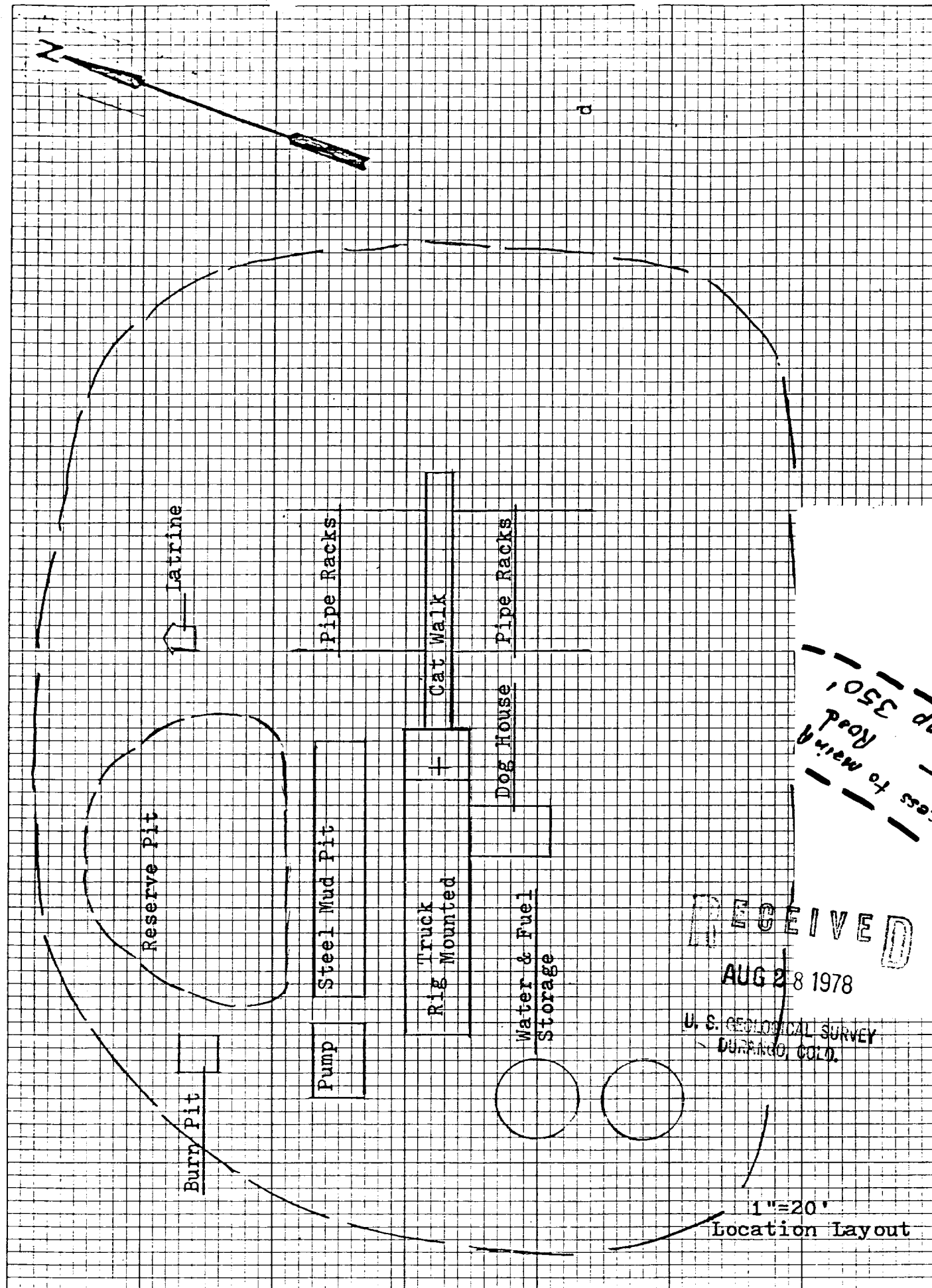
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Series 900 Double Gate BOP, rated
at 3000 psi Working Pressure

EXHIBIT No. 1.



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1"=20'
Location Layout

