APPLICATION FOR PERMIT PERMIT NO. ________

TO UTILIZE A LINED EVAPORATION PIT

New Mexico Oil Conservation Commission

Name of Operator BBC, INC.

Address 101 E. MARLAND, SUITE 112, HOBBS, NEW MEXICO 88240

Name of lease upon which evaporation pit will be located ROSS DRAW FEDERAL

Location of evaporation pit: Unit Letter C Section 33 Township 26-S Range 30-E

Lease(s) which will be producing into pit SEE ATTACHED DATA SHEET

Pool(s) which will be producing into pit SEE ATTACHED DATA SHEET

Analysis of disposal water: Chlorides - ppm. Total dissolved solids - ppm.
(If more than one pool will be producing into pit, give water analysis for each pool.)

Quantity of water to be disposed of into this pit NA barrels per day.

Water production from these same wells six months ago NA bpd. Three months ago NA bpd
(If more than one pool will be producing into pit, give water production data for each)

Method of hydrocarbon entrapment to be employed: Settling tank YES Header pit NO

If settling tank is to be used, give size and number of barrels TWO 750-BBL.& TWO 500-BBL.

If header pit is to be used, give dimensions and depth ---

Header pit lining material --- Thickness ---

Dimensions of Evaporation Pit ("A" and "B" on diagram) 142' x 142'

Number of square feet contained in above 20,164

Depth (Top of levee to floor of pit--"D" on diagram) 7'

Material to be used as liner REINFORCED HYPALON 30HP6 Thickness 30 MIL

Does manufacturer recommend protection of material from direct sunlight? Yes ____ No XX

If yes, what means will be provided to so protect the material? --

Is material resistant to hydrocarbons? Yes XX No ____

Is material resistant to acids and alkalis? Yes XX No ____

Is material resistant to salts? Yes XX No ____

Is material resistant to fungus? Yes XX No ____

Is material rot-resistant? Yes XX No ____

Will joints in material be fabricated in the field? Yes ____ No XX

If yes, describe method to be used in joining material ____

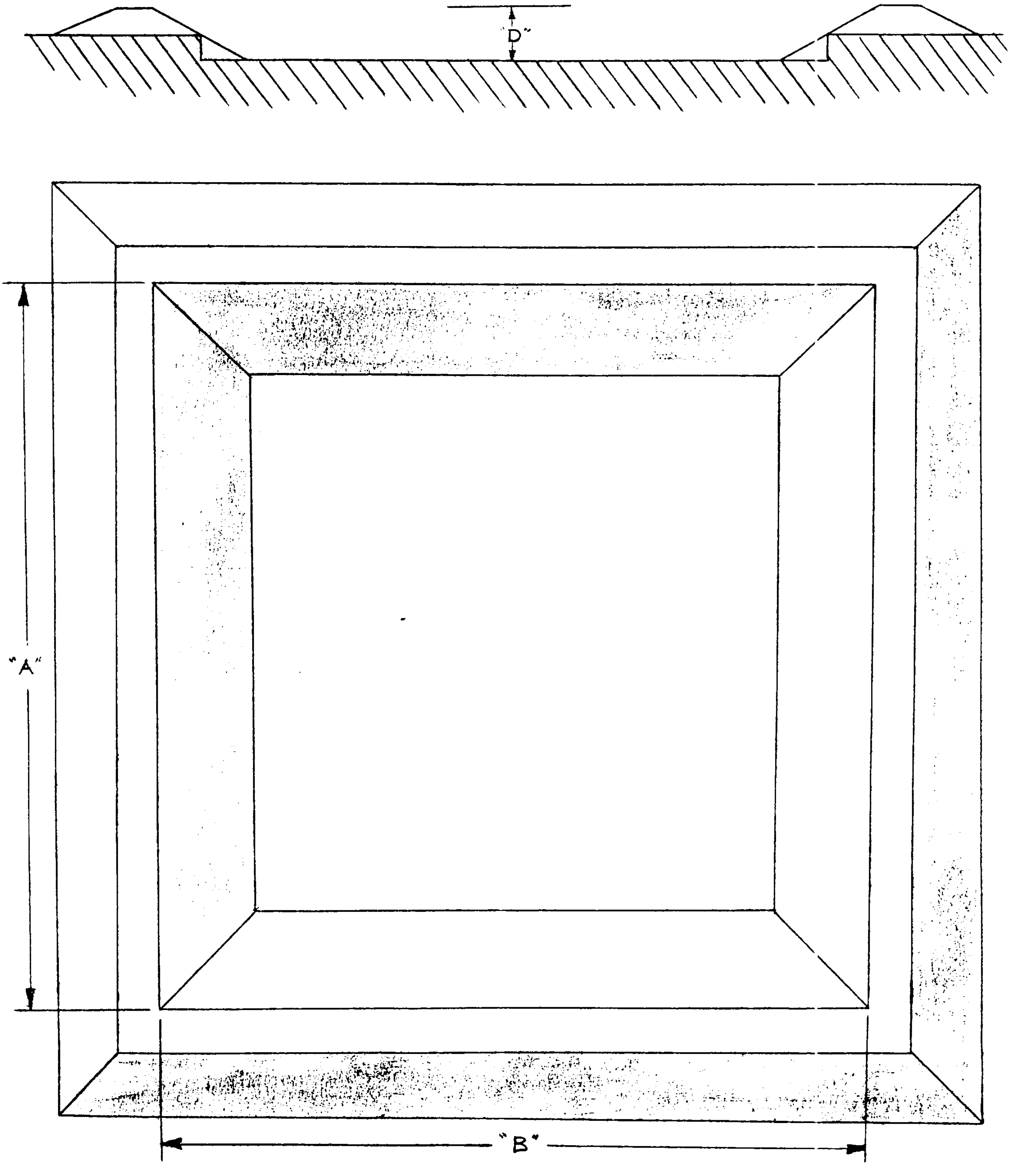
Attach manufacturer's brochure describing the qualities of the lining material.

Describe the leakage detection system to be used DRAINAGE-AND-SUMP

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and further, that the subject evaporation pit and appurtenances, when installed, will be kept in good repair, and that all due diligence will be exercised in keeping the surface of the water free of oil and other debris.

Name Arthur R. Brown Title Agent Date Jan. 13, 1984

Approved by ____________ Title ____________ Date ____________


"D"
"A"
"B"

APPLICATION FOR PERMIT TO UTILIZE A LINED PIT

SUPPLEMENTAL DATA

1. LOCATION:

A. The proposed lined pit will be located, as shown on Exhibit "A", in the NE¼NW¼ of Section 33, T.26 S., R.30 E., Eddy County, New Mexico, adjacent on the west to BBC, Inc.'s existing Salt Water Disposal Facility.

B. The proposed pit will not be located in a watercourse, lake bed, or other depression.

2. PURPOSE OF PIT:

A. The proposed lined pit will be used both for an emergency pit, in the event of a malfunction in the salt water disposal facility, and for a salt water holding pit.

B. BBC's existing salt water disposal facility disposes of produced water, gathered from wells in the Brushy Draw Delaware and Ross Draw Wolfcamp Pools, in the subsurface by injection into well No. 1 Ross Draw Federal located 660 feet from the north line and 1980 feet from the west line of Section 33.

3. QUALITY OF PRODUCED WATER:

A. Analyses of produced water from the two pools show the following;

ZONE	CHLORIDES - PPM	TOTAL DISSOLVED SOLIDS - PPM
Bell Canyon	76,000	125.407
Cherry Canyon	169,000	270,096
Brushy Canyon	197,000	315,282
Wolfcamp	48,000	78,717

4. PIT DESIGN AND CONSTRUCTION:

A. The pit will be square, as shown on Exhibit "B", and will be constructed by excavating to an approximate depth of 4 feet and using the excavated material to form levees around the pit.

B. The levees will rise approximately 3 feet above ground level. The top of the levees will be flat and level and will be 4 feet wide. Inside and outside slope of the levees will be 1:3. (See Exhibit "C").

C. The pit will be lined with a flexible plastic liner. The pit liner will be anchored on top of the levee in an anchor trench extending the entire perimeter of the pit. The anchor trench, as shown in Detail #2, Exhibit "C", will be 6" wide and 12" deep and will be 1'-9" back from the inside edge of the pit. After placing the liner, the anchor trench will be backfilled with excavated material.

D. No header pit will be needed. The two 750-barrel and two 500-barrel settling tanks serving the salt water disposal facility should be adequate to entrap any oil reaching the facility with the produced water.

5. LEAKAGE DETECTION SYSTEM:

A. The leakage detection system will be the drainage-and-sump method with the drain line and laterals arranged as shown on Exhibit "B". The drain line will be perforated, 2" PVC pipe in a 6" wide, gravel filled ditch, as shown in Detail #1, Exhibit "C", and will drain into a sump outside the pit.

B. The laterals will be perforated, 1" PVC pipe in gravel filled ditches. To facilitate drainage, the drain line and all laterals will be constructed with a minimum slope in the direction of drainage of 1':100'.

C. The sump, as shown on Exhibits "B" and "C", will be constructed of 6" PVC pipe with the bottom sealed and the top closed to prevent the entrance of rain water or ground water.

6. PIT LINER MATERIAL:

A. The pit lining will be 30 mil thick, reinforced Hypalon. An information bulletin is attached.

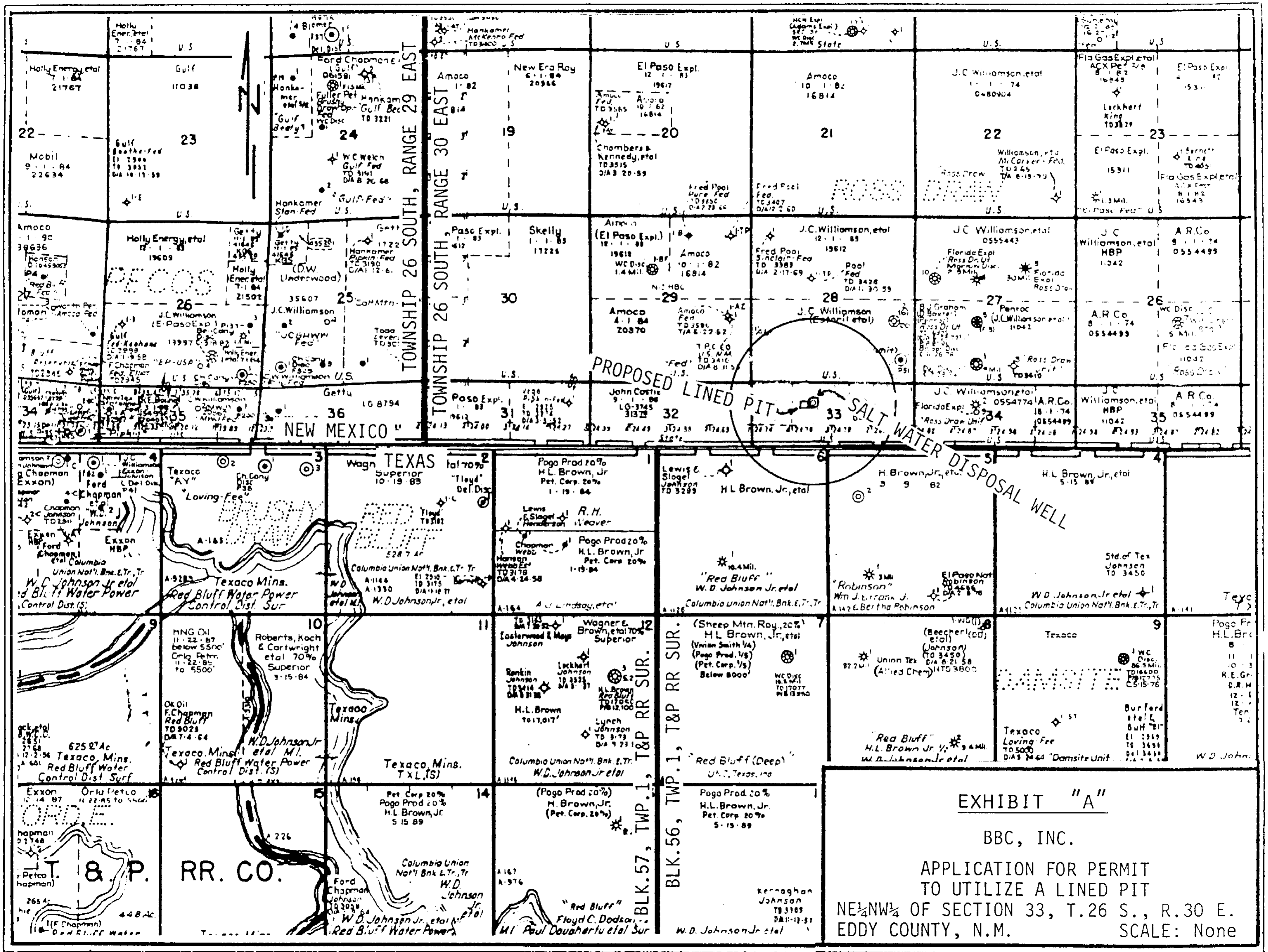
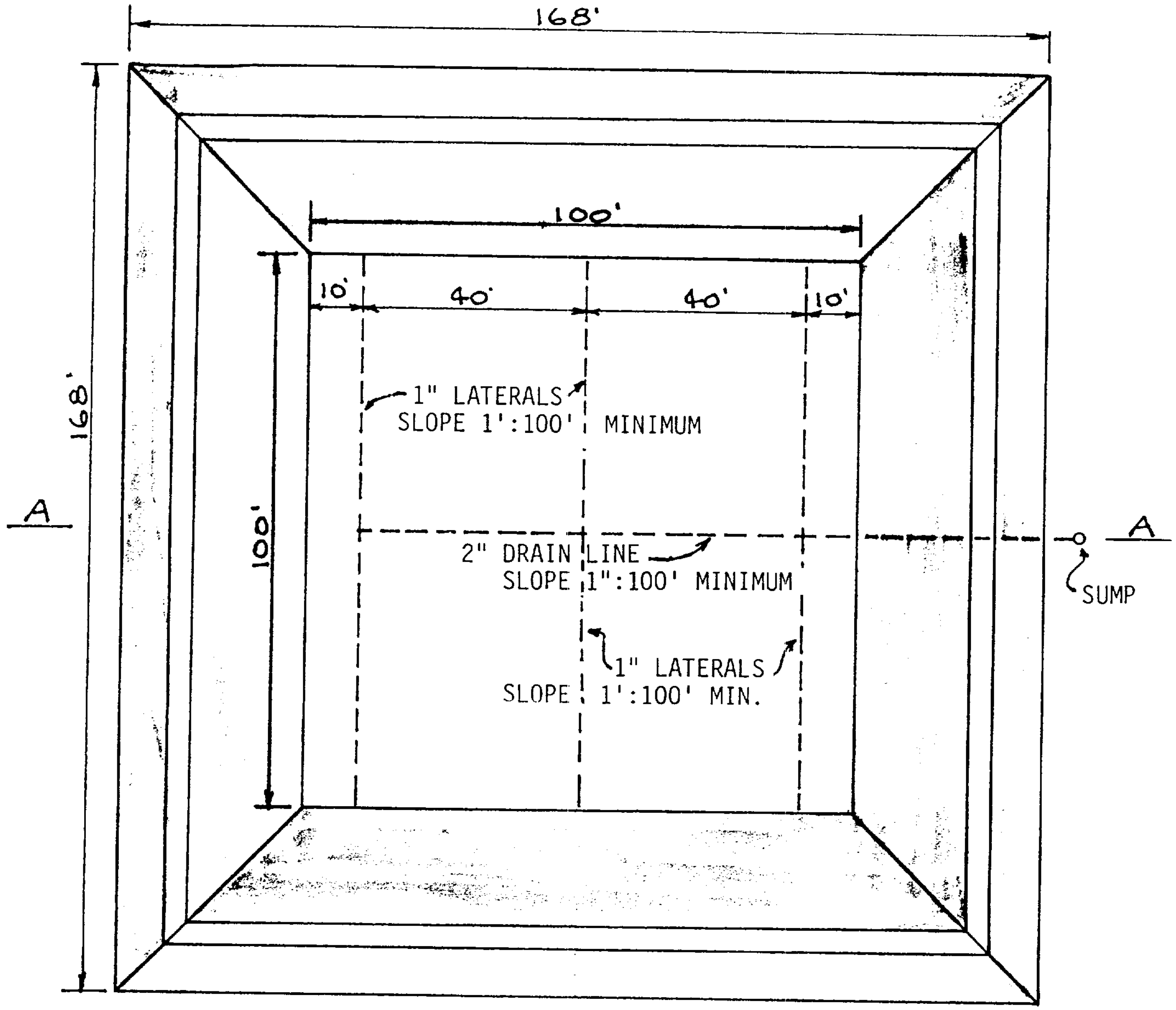


EXHIBIT "A"

BBC, INC.

APPLICATION FOR PERMIT
TO UTILIZE A LINED PIT
NE¼NW¼ OF SECTION 33, T.26 S., R.30 E.
EDDY COUNTY, N.M. SCALE: None

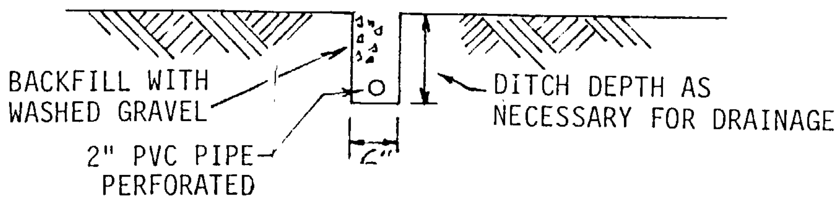


PLAN

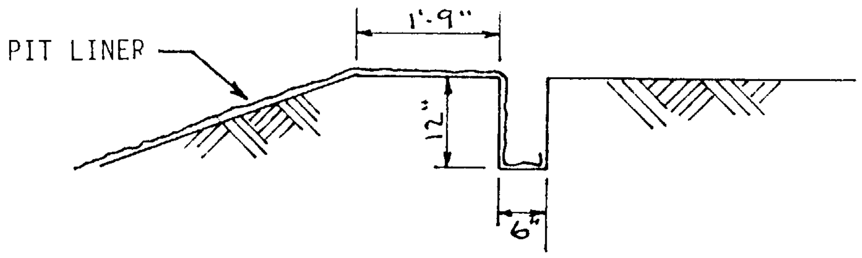
EXHIBIT "B"

BBC, INC.

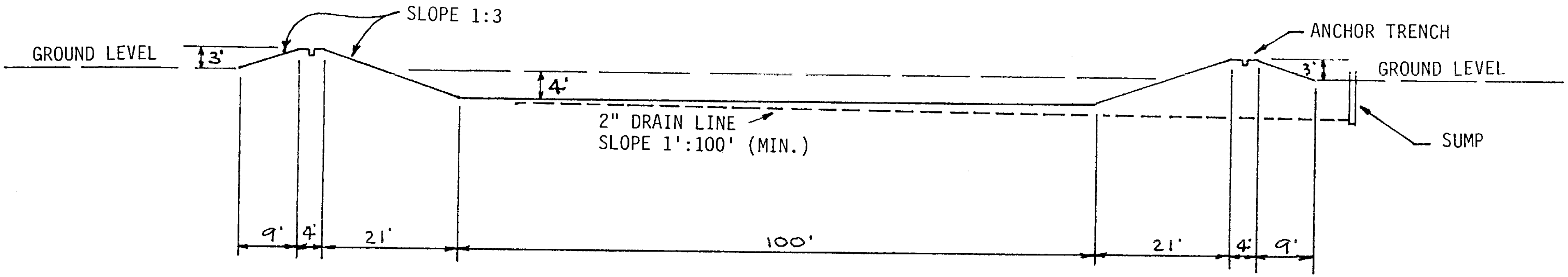
APPLICATION FOR PERMIT
TO UTILIZE A LINED PIT
NE¼NW¼ OF SECTION 33, T.26 S., R.30 E.
EDDY COUNTY, N.M. SCALE: None



DRAIN LINE DETAIL NO. 1



ANCHOR TRENCH DETAIL #2



SECTION A-A

EXHIBIT "C"

BBC, INC.

APPLICATION FOR PERMIT
TO UTILIZE A LINED PIT
NE¼NW¼ OF SECTION 33, T.26 S., R.30 E.
EDDY COUNTY, N.M. SCALE: None

BFGoodrich

The BFGoodrich Company
Fabricated Polymers Division

Environmental Products
Dept. 1914

500 South Main Street
Akron, Ohio 44318
(216) 379-3115

Product Bulletin

Flexseal™ reinforced lining material

30HP6 specification

1. **Scope**
This specification describes BFGoodrich Flexseal™ 30HP6, polyester reinforced lining of a nominal 30 mil Hypalon* thickness.

2. **Liner Requirements:**

2.1 **Material Description:**

2.1.1 The liner shall be a three ply construction. Two of the plies being Flexseal sheeting having Hypalon* as its principle polymer and compounded to meet the requirements of this specification.

2.1.2 The third ply shall be scrim fabric totally encapsulated between the Flexseal sheets with 1/8" to 3/4" of the unsupported sheet extending beyond the fabric.

2.1.3 The liner shall be so produced so as to be free of holes, undispersed raw materials, blisters or any sign of delamination. Any such defect shall be repaired using the elastomer sheeting and the manufacturer's approved adhesive.

2.2 **Factory Fabrication of Blankets:**

2.2.1 The finished roll goods shall be factory fabricated into panels up to 20,000 sq. ft. in size in order to reduce the amount of field seaming required. All seams shall be heat welded and provide a film tearing bond.

2.3 **Field Seaming:**

2.3.1 All field seaming will be performed using only the manufacturer's approved adhesives and application directions. The minimum width of field seams shall be 4" seal.

2.3.2 All field seams upon completion shall be visually inspected and any loose or questionable area repaired.

2.4 **Physical Properties:**
The Flexseal liner shall conform to the requirements outlined below.

3. **Guarantee of Materials:**
The liner purchaser shall be provided with a guarantee in writing from the manufacturer as to weathering. The degree and limitations of the guarantee shall be described within this guarantee.

PROPERTY	TEST METHOD	REQUIREMENTS
Tensile Strength	ASTM D 412	1,000 psi, minimum
Elongation at break	ASTM D 412	250 percent, minimum
Water absorption (7 days at 70 F)	ASTM D 471	5 percent max by weight
Cold bend test	ASTM D 2136 (1/8 inch mandrel)	-30 F, no cracks
Brittleness point	ASTM D 746 (Procedure "B")	– 45°F, no failures
Ozone Resistance 7 days @ 300 pphm @ 104°F with 20 percent strain	ASTM D 1149	No cracks visible under 7 times magnification
*Breaking strength	ASTM D 751	120 lb., minimum
*Tear strength Tongue Tear	ASTM D751	20 lb., minimum
*Puncture resistance	FTMS 101 B (Method 2031)	100 lb., minimum
*Factory and field seam strength	ASTM D 816 (Method B)	Parent material breaks prior to seam separation

*Tests performed on the reinforced sheets. All others on the material in its non-reinforced state.

FPD EP-4357-280 TM -- Trademark of The BFGoodrich Company *DuPont Registered Trademark

Form 9-331 C
(May 1963)

NM OIL CONS. COMMISSION
Drawer DD
Artesia, NM 88210

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

RECEIVED BY
NOV 10 1983
O. C. D.
ARTESIA, OFFICE

1a. TYPE OF WORK
XXDRILLX XX RE-ENTER DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL
OIL WELL ☐ GAS WELL ☐ OTHER SALT WATER DISPOSAL SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR
BBC, INC. ✓

3. ADDRESS OF OPERATOR
101 E. MARLAND, SUITE 112, HOBBS, NEW MEXICO 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface
660' FNL AND 1980' FWL SECTION 33
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
19 MILES SOUTHEAST OF MALAGA, NEW MEXICO

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 660'

16. NO. OF ACRES IN LEASE 369.50

17. NO. OF ACRES ASSIGNED TO THIS WELL -

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. -

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS WORKOVER RIG

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
2943 GR 2965 KB

22. APPROX. DATE WORK WILL START*
UPON APPROVAL

5. LEASE DESIGNATION AND SERIAL NO.
NM-35607

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
ROSS DRAW FEDERAL

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
UNDESIGNATED DELAWARE

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
SEC.33, T.26 S., R.30 E.

12. COUNTY OR PARISH
EDDY

13. STATE
NEW MEXICO

23.
PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
26"	*20"	Conductor Csg.	70'	CEMENTED TO SURFACE
17-1/2"	*13-3/8"	68#	3290'	3815 SACKS (CIRCULATED)
12-1/4"	* 9-5/8"	47# & 53.5#	11,580'	2880 SACKS

*THIS CASING RUN AND SET WHEN WELL WAS ORIGINALLY DRILLED.

PLANS ARE TO RE-ENTER THIS WELL AND CLEAN OUT TO THE PLUGGED-BACK TOTAL DEPTH OF APPROXIMATELY 4545 FEET AND COMPLETE THE WELL FOR SALT WATER DISPOSAL INTO THE DELAWARE FORMATION.

THIS WELL WAS ORIGINALLY DRILLED BY IKE LOVELADY AS WELL NO.1 ROSS DRAW FEDERAL COM DURING 1981 AND SUBSEQUENTLY PLUGGED AND ABANDONED.

SEE ATTACHED FOR: SUPPLEMENTAL RE-COMPLETION DATA
BOP SKETCH
SURFACE USE AND OPERATIONS PLAN

BUREAU OF LAND MANAGEMENT
RECEIVED
OCT 03 1983
DIST. 6 N. M.
ROSWELL, NEW MEXICO

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 Arthur R Brown Arthur R. Brown TITLE Agent DATE 9-26-83

(This space for Federal or State office use)

PERMIT NO. ______ APPROVAL DATE ______

APPROVED BY ORIG. SIGNED JAMES A. GILLHAM TITLE ASSISTANT District Manager DATE 11 8 83
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS AND
SPECIAL STIPULATIONS
ATTACHED