

30-015-25642

Form 3160-3  
(November 1983)  
(formerly 9-311C)SUBMIT 1. FR. DATE\*  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985 0/5FRECEIVED BY UNITED STATES  
DEPARTMENT OF THE INTERIOR  
JUL 28 1986  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK ARTESIAN OFFICE DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NM-45223	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR BOYD & McWILLIAMS CORPORATION		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 704 WESTERN UNITED LIFE BLDG., MIDLAND, TEXAS 79701		8. FARM OR LEASE NAME EMPIRE FEDERAL	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2100' FNL AND 1980' FEL OF SECTION 6 At proposed prod. zone		9. WELL NO. 1	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 8 MILES WEST-NORTHWEST OF LOCO HILLS, NEW MEXICO		10. FIELD AND POOL, OR WILDCAT WILDCAT	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 660'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA SEC. 6, T. 17 S., R. 29 E.	
16. NO. OF ACRES IN LEASE 531.15		12. COUNTY OR PARISH EDDY	
17. NO. OF ACRES ASSIGNED TO THIS WELL 320		13. STATE NEW MEXICO	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. -		20. ROTARY OR CABLE TOOLS ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3708.6' GL		22. APPROX. DATE WORK WILL START* UPON APPROVAL	

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	54.5#	250'	SUFFICIENT TO CIRCULATE
11" or 12-1/4"	8-5/8"	24# & 32#	2650'	TO FILL TO BASE OF SALT
7-7/8"	5-1/2"	17#	10,800'	300 SACKS

AFTER SETTING PRODUCTION CASING, PAY ZONE WILL BE PERFORATED AND  
STIMULATED AS NECESSARY.SEE ATTACHED FOR: SUPPLEMENTAL DRILLING DATA  
BOP SKETCH  
SURFACE USE PLAN

GAS IS NOT DEDICATED.

RECEIVED  
N.M. LAND  
8-1-86

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. Arthur R. Brown Agent DATE July 9, 1986

SIGNED Arthur R. Brown TITLE Agent DATE July 9, 1986

(This space for Federal or State office use)

PERMIT NO.                      APPROVAL DATE                     

APPROVED BY Scott Adams TITLE                      DATE 7-24-86

CONDITIONS OF APPROVAL, IF ANY:

APPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS

\*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, agency, or officer of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

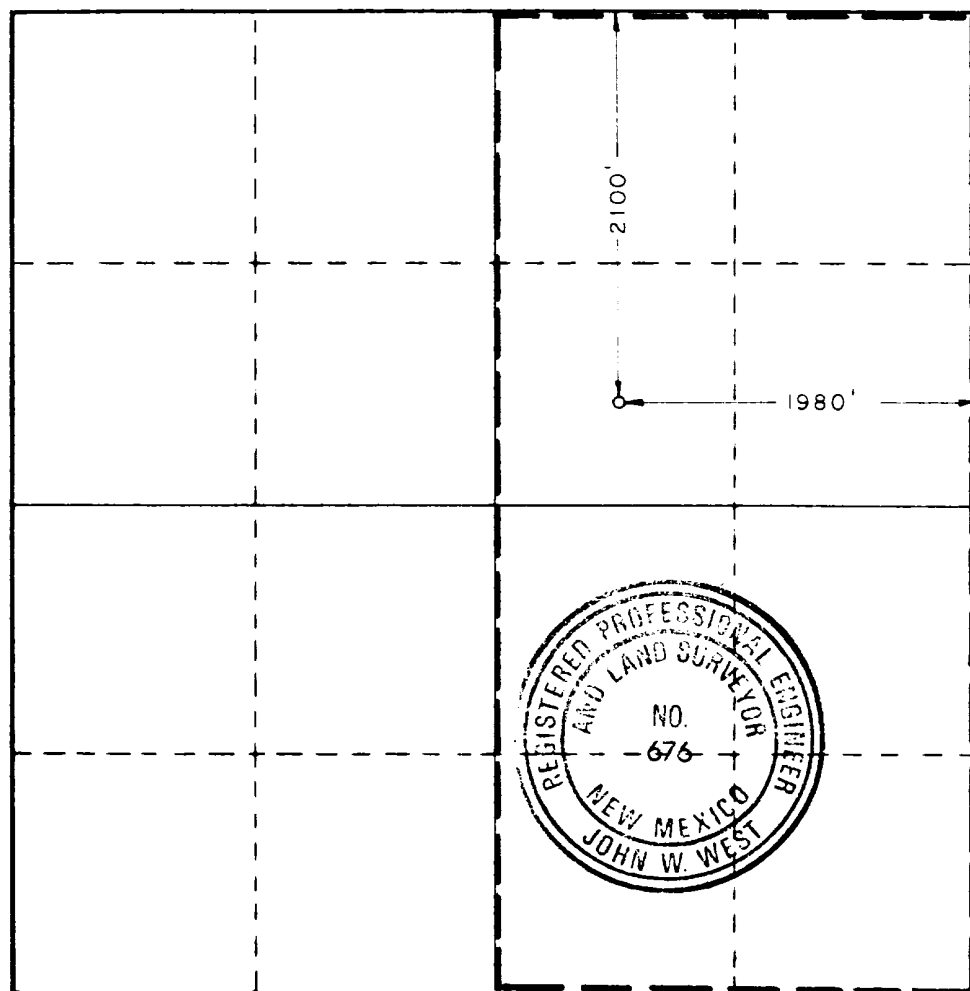
Operator BOYD & McWILLIAMS CORP.			Lease EMPIRE FEDERAL		Well No. 1
Unit Letter G	Section 6	Township 17S	Range 29E	County EDDY	
Actual Footage Location of Well: 2100 feet from the NORTH line and 1980 feet from the EAST line					
Ground Level Elev. 3708.6	Producing Formation MORROW	Pool WILDCAT		Dedicated Acreage: 320 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.



CERTIFICATION

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

*Arthur R. Brown*  
Arthur R. Brown

Position

Agent

Company

BOYD & McWILLIAMS CORP.

Date

JULY 9, 1986

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.

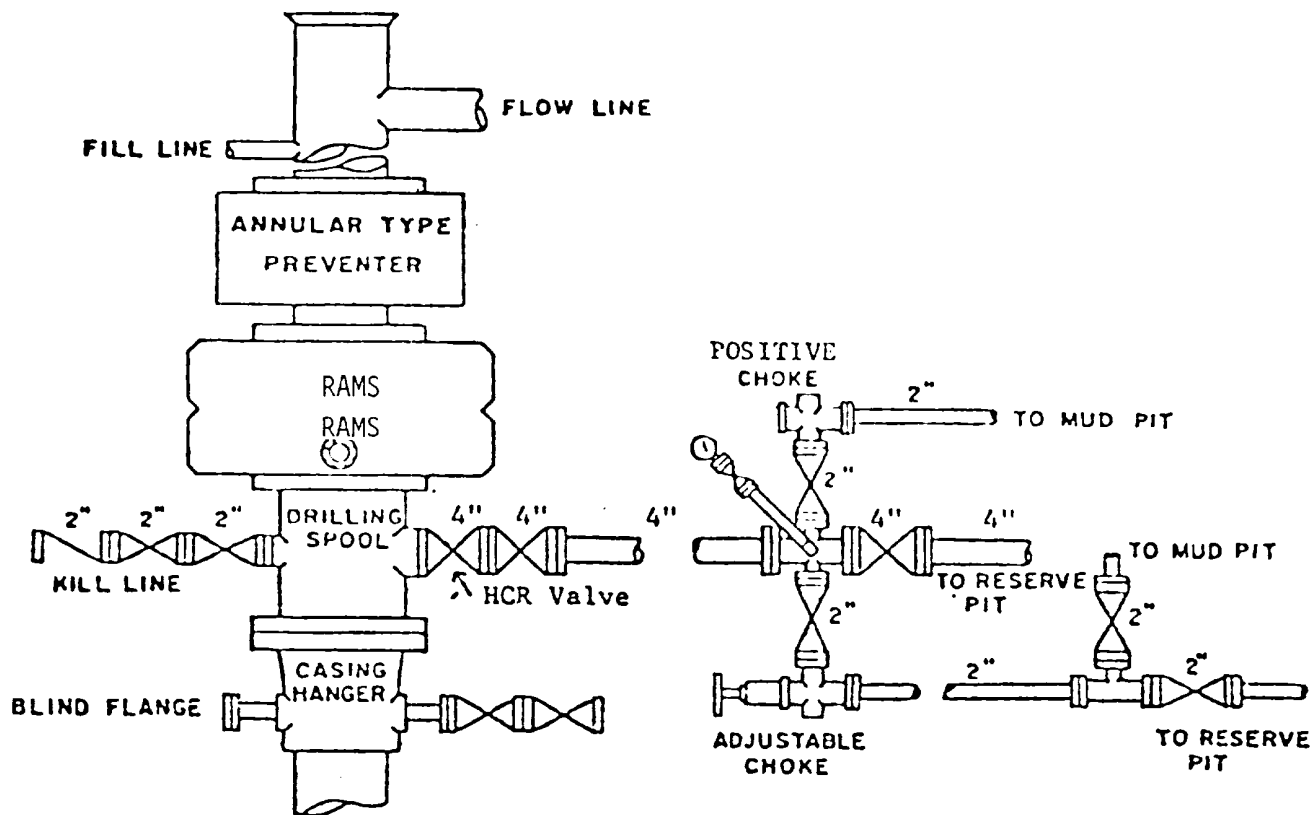
Date Surveyed

JUNE 17, 1986

Registered Professional Engineer and/or Land Surveyor

*John W. West*  
Certificate No. JOHN W. WEST, 676

RONALD J. EIDSON, 3239



### BOP STACK

3000 PSI WORKING PRESSURE

BOP ARRANGEMENT

## SUPPLEMENTAL DRILLING DATA

BOYD & McWILLIAMS CORPORATION

WELL NO. 1 EMPIRE FEDERAL

1. SURFACE FORMATION: Triassic.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Top Salt	250'
Base Salt	650'
Seven Rivers	1030'
San Andres	2400'
Tubb	5200'
Abo	5900'
Wolfcamp	7130'
Cisco	8700'
Morrow	10,120'

3. ANTICIPATED POSSIBLE HYDROCARBON BEARING ZONES:

Morrow	Gas
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4. PROPOSED CASING AND CEMENTING PROGRAM:

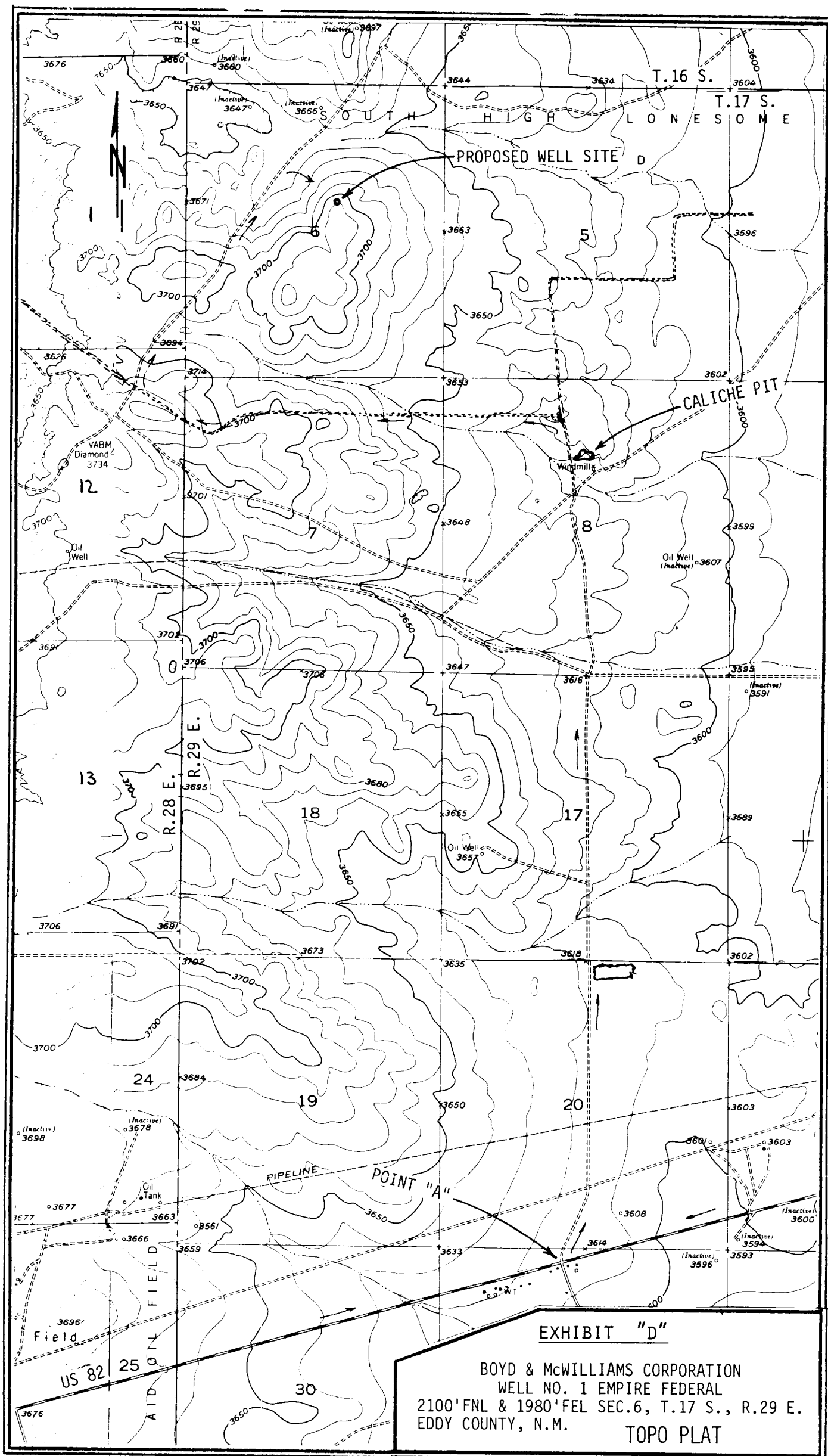
<u>CASING SIZE</u>	<u>FROM</u>	<u>TO</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>
13-3/8"	0	250'	54.5#	J-55	STC
8-5/8"	0	2200'	24#	J-55	STC
"	2200'	2650'	32#	J-55	STC
5-1/2"	0	10,800'	17#	N-80	LTC

Equivalent or adequate grades and weights of casing may be substituted at time casing is run, depending on availability.

13-3/8" casing will be cemented with approximately 250 sacks of Class "C" cement. Cement to circulate

8-5/8" casing will be cemented with sufficient Light cement, tailed-in with 200 sacks of Class "C", to fill to the base of salt.

5-1/2" casing will be cemented with approximately 300 sacks of Class "H".



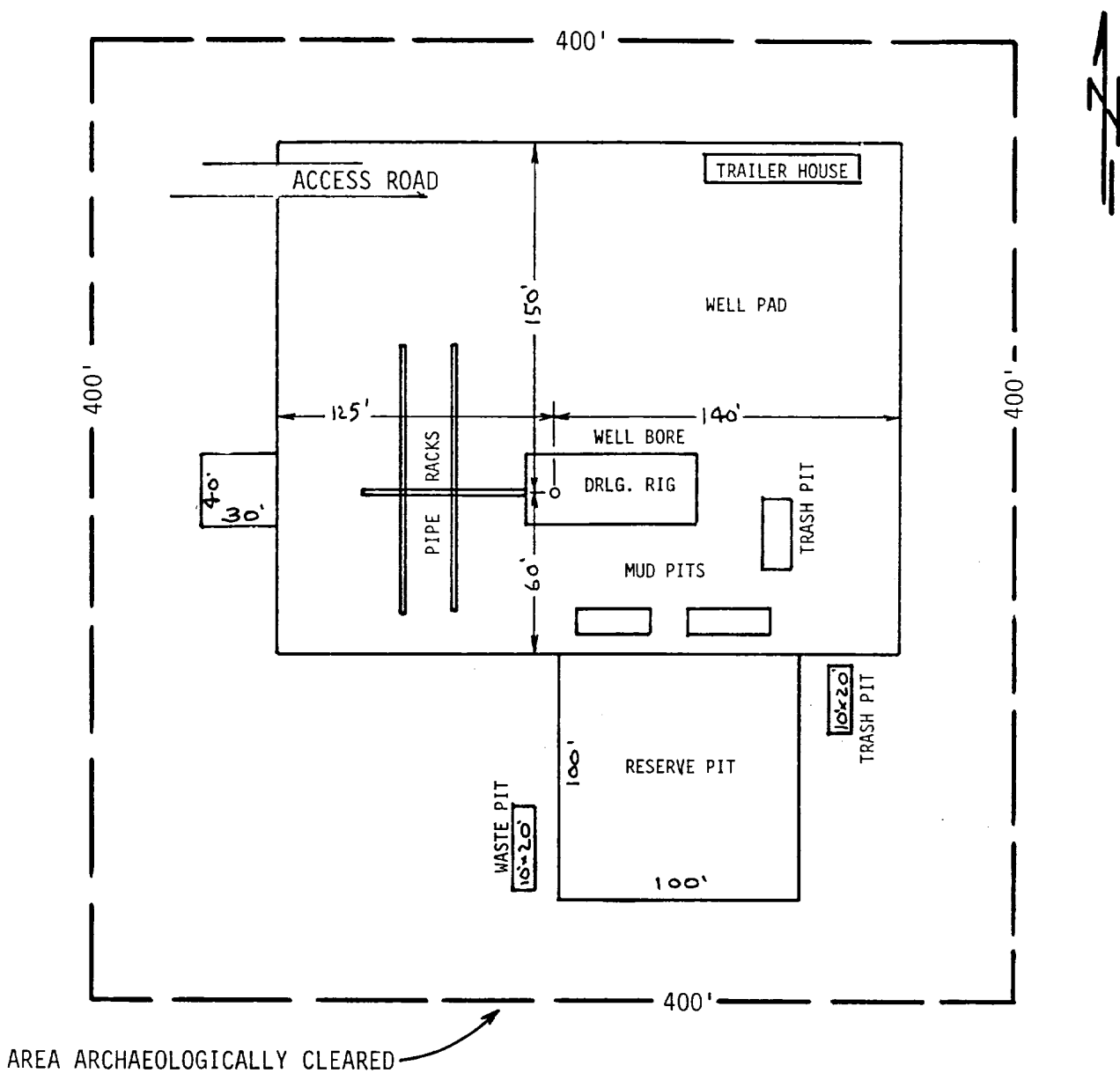


EXHIBIT "C"

BOYD & McWILLIAMS CORPORATION  
WELL NO. 1 EMPIRE FEDERAL  
DRILLING RIG LAYOUT  
SCALE: None