

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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  
 Harvey E. Yates Company

3. ADDRESS OF OPERATOR  
 P.O. Box 1933, Roswell, New Mexico 88202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirement)  
 At surface: 2310' FNL & 2310' FEL  
 At proposed prod. zone: same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 12 miles southeast of Loco Hills, New Mexico

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

16. NO. OF ACRES IN LEASE  
 160

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
 1683

19. PROPOSED DEPTH  
 9000

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 3742.7 GL

22. APPROX. DATE WORK WILL START\*  
 ASAP

5. LEASE DESIGNATION AND SERIAL NO.  
 LC-062052

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Hudson 11 Federal

9. WELL NO.  
 #4

10. FIELD AND POOL, OR WILDCAT  
 X Tamano-Bone Springs

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 11, T18S, R31E

12. COUNTY OR PARISH  
 Eddy

13. STATE  
 NM

RECEIVED

MAR 24 '88

C. C. D. U.K.G.  
ARRESIA OFFICE

C/BF

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	350	Circ to surface
11	8 5/8	24	2350	Circ to surface
7 7/8	5 1/2	17	9000	600 ft above pay zone

MUD PROGRAM:

0 - 350 F.W.  
 350 - 2350 Brine Wtr  
 2350 - 9000 F.W. Mud

POST ID #1  
NL & API  
4-1-88

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FEB 23 11 27 AM '88

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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: [Signature] NM Young TITLE: Drilling Superintendent DATE: 2/22/88

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE: 3-23-88

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

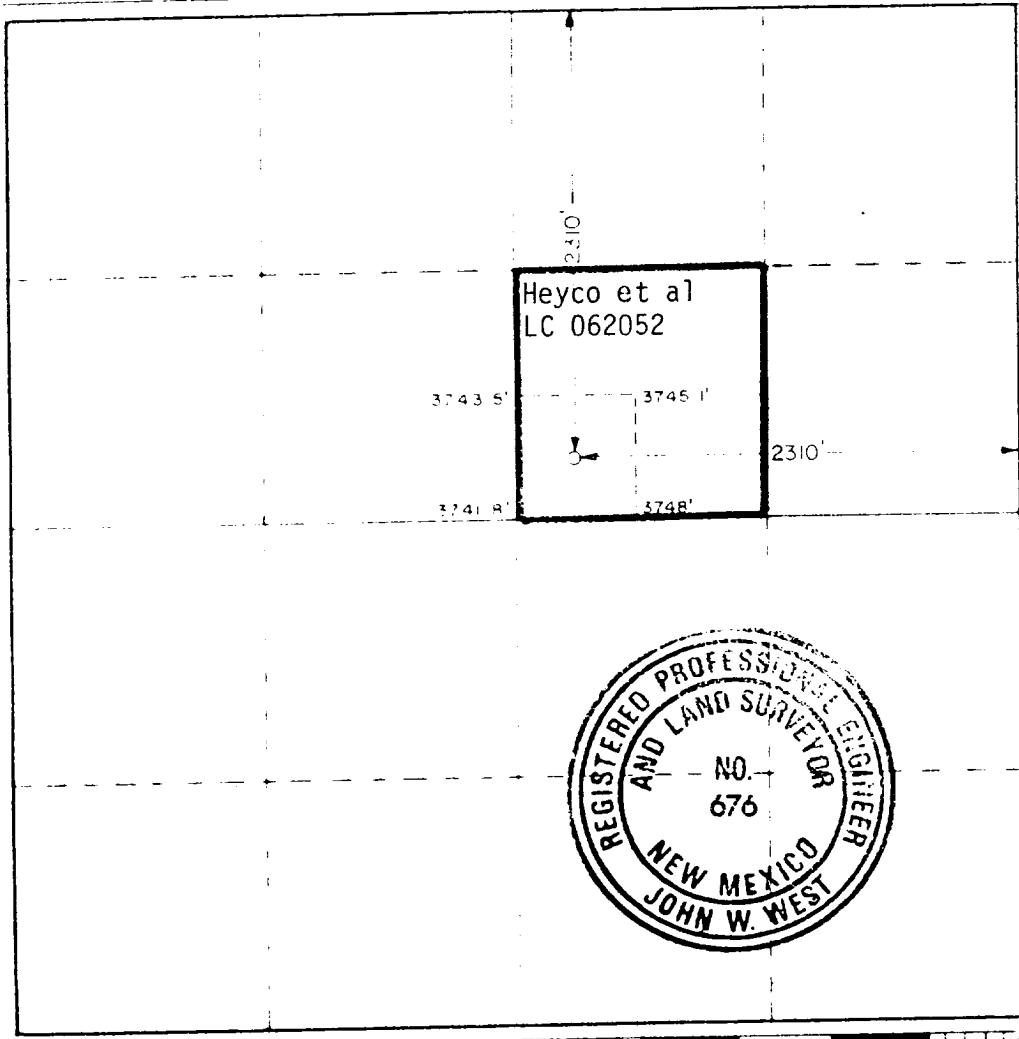
NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-102  
Supersedes L-128  
Effective 10-65

All distances must be from the outer boundaries of the Section

Section Harvey E. Yates Co.		Lease Hudson H. Federal			Ac. 4
Section 4	Range 11	Meridian 18 South	Block 31 East	Grid	
Section 4		Section north	Section 2310	Section east	Section
Section 4	Section Bone Springs	Section Tamano	Section 40		

- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty)
- 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, force-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

*N.M. Young*  
N.M. Young

Drilling Superintendent

Harvey E. Yates Co.

February 18, 1988

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

February 15, 1988

Registered Professional Engineer  
and Land Surveyor

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

RONALD J. EIDSON, 3239

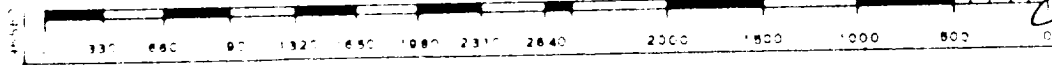
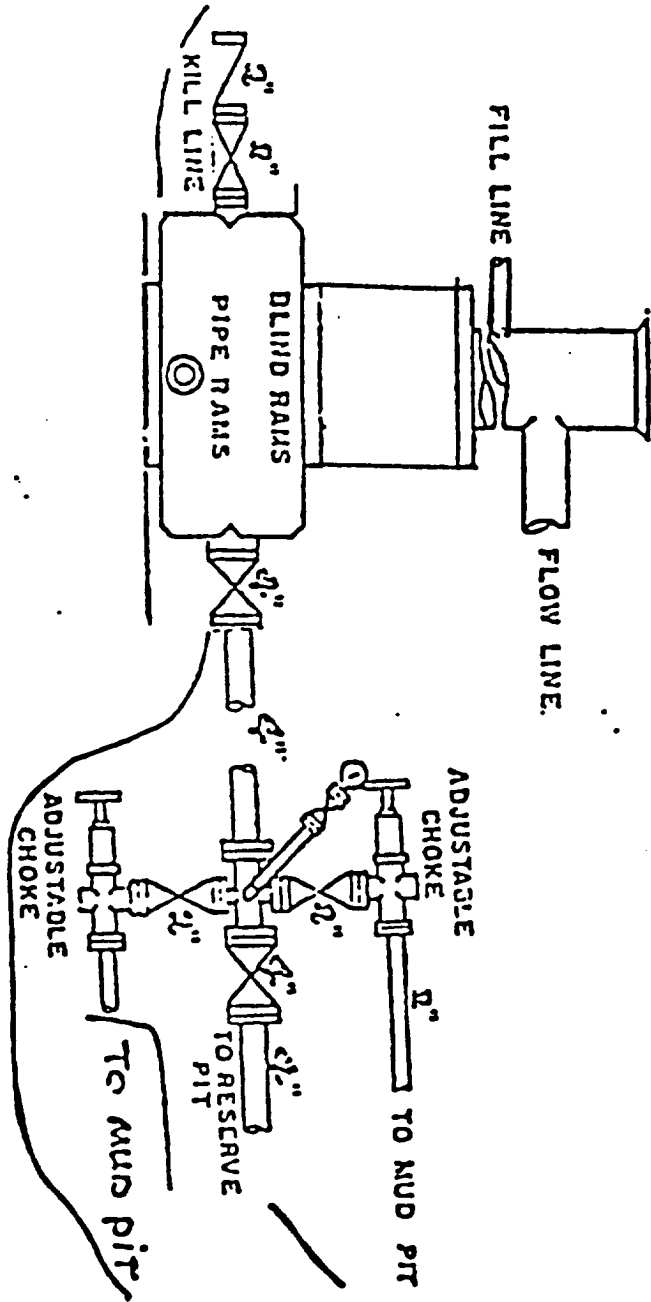


EXHIBIT C

Harvey E. Yates Co  
Hudson 11 Federal 4  
Sec.11 T-18S R-31E  
Eddy Co., New Mexico

900 Series



Application

HARVEY E. YATES COMPANY  
Hudson "11" Federal #4  
Section 11, T18S, R31E  
Eddy County, New Mexico

In conjunction with Form 3160-3, Application for Permit to Drill the Subject well in Section 11, Township 18 South, Range 31 East, Eddy County, New Mexico, Harvey E. Yates Company submits the following ten items of pertinent information in accordance with Bureau of Land Management requirements:

1. The geologic surface formation is quaternary alluvium and bolson deposits and other surficial deposits.
2. The estimated tops of geologic markers are as follows:

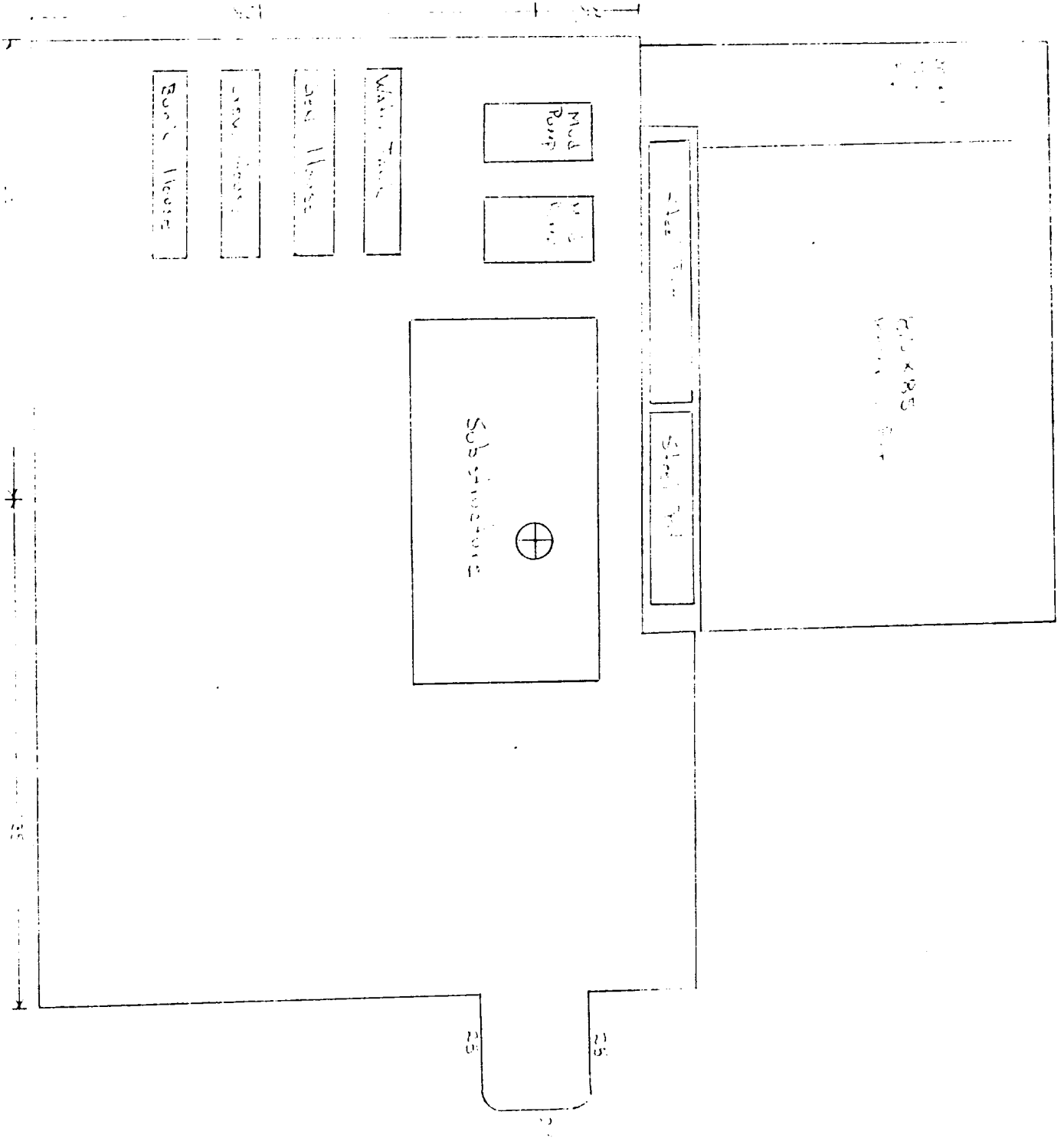
Rustler	841'	Grayburg	3935'
Yates	2308'	San Andres	4287'
Seven Rivers	2731'	Bone Spring	5747'
Bowers	3180'	TD	9000'
Queen	3437'		
Penrose	3662'		

3. We do not anticipate finding water but have listed the formation in which we anticipate finding oil or gas.  

Bone Spring      5747'
4. Proposed casing program: See Form 3160-3
5. Pressure control equipment: See Exhibit C.
6. Mud program: See Form 3160-3.
7. Auxiliary equipment: Blowout preventer
8. Testing, logging and coring programs: One possible DST in the Bone Springs. We are not planning to do any coring. Planned logs are DLL-Micro w/GR and Caliper, CN-DEN w/GR and Caliper.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible.

EXHIBIT D

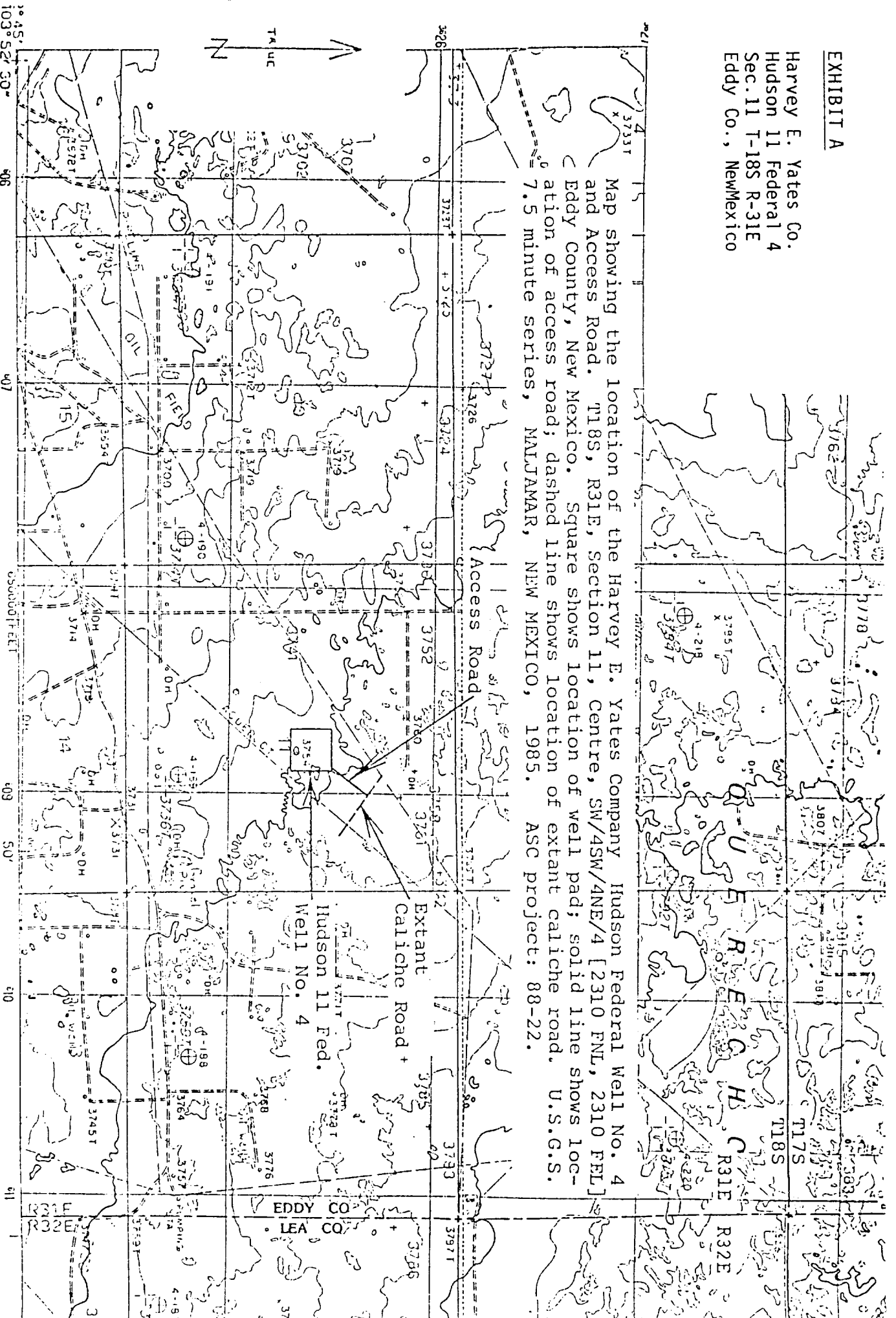
Harvey E. Yates Co.  
Hudson 11 Federal 4  
Sec. 11 T-18S R-31E  
Eddy Co., New Mexico



**EXHIBIT A**

Harvey E. Yates Co.  
Hudson 11 Federal 4  
Sec. 11 T-18S R-31E  
Eddy Co., NewMexico

Map showing the location of the Harvey E. Yates Company Hudson Federal Well No. 4 and Access Road. T18S, R31E, Section 11, Centre, SW/4SW/4NE/4 [2310 FNL, 2310 FFL] Eddy County, New Mexico. Square shows location of well pad; solid line shows location of access road; dashed line shows location of extant caliche road. U.S.G.S. 7.5 minute series, MALJAMAR, NEW MEXICO, 1985. ASC project: 88-22.



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROL BY AERIAL PHOTOGRAPHS TAKEN BY USGS, NEWMEXICO  
FIELD CHECKED BY MAP EDITED BY TRANSVERSE MERCATOR  
PROJECTION, U.S. NATIONAL TRANSVERSE MERCATOR  
GRID DATA AFTER UNIVERSAL TRANSVERSE MERCATOR  
1928 FOOT STRAIGHT GRID TICKS, NEW MEXICO, EAST ZONE  
UTM GRID DECLINATION, 0° 27' EAST

