

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

Harvey E. Yates Company, Inc.

3. ADDRESS OF OPERATOR

Post Office Box 1933, Roswell, New Mexico 88201

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

At surface

1980' INL & 1980' FEL

At proposed prod. zone

Same

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

12 Miles south of Kenna, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

1980'

16. NO. OF ACRES IN LEASE

160.01

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

1380'

19. PROPOSED DEPTH

3800'

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

20. ROTARY OR CABLE TOOLS

Rotary

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

4245.0' GL

22. APPROX. DATE WORK WILL START*

September 1, 1977

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8 5/8"	20#	250'	Circulate
7 7/8"	4 1/2"	9.5#	3800'	275 Sx

BOP Program: Schaffer Type E 10" Series 900 Hydraulic Blowout Preventer will be used.

Mud Program: Fresh water native mud to 3450', mud system from 3450' to 3800' 34-36 viscosity, 10cc water loss control.

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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

W. L. G. Yates

TITLE

Vice President

DATE

August 17, 1977

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED
CONDITIONS OF APPROVAL, IF ANY:THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMPLETED WITHIN 3 MONTHS.
EXPIRES AUG 30 1977
*See Instructions On Reverse Side

DATE

100-100000-2

800

877

OIL CO. OF CALIF. CO. INC.
SUNOCO, N. M.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

Owner Harvey E. Yates Company, Inc.			Lessee Amoco Federal			Well No. Amoco #2		
Section G	Section 1	Section 8 South	Section 30 East	County Chaves				
Actual Surface Location of Well:								
1980.0 feet from the North			1980.0 feet from the East			Distance from Section Corner		
Ground Level Elev. 4245.0			Producing Formation San Andres			Distance from Section Corner 40 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 (if it is 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 _____

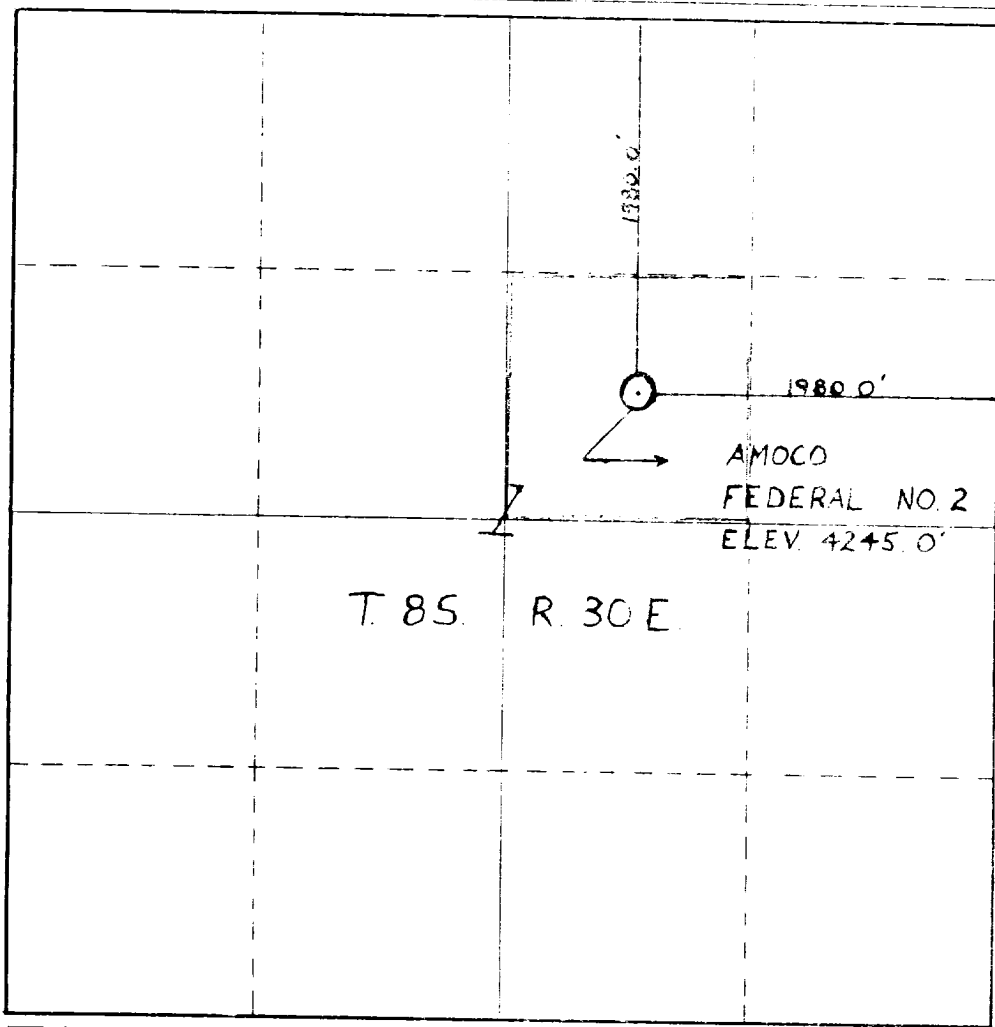
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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.

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ARTESIA, NEW MEXICO**



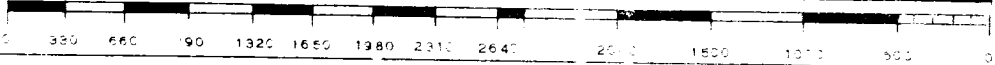
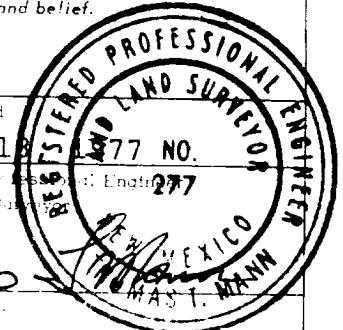
CERTIFICATION

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

Signature	<i>[Signature]</i>
Position	Vice President
Company	Harvey E. Yates Co., Inc.
Date	August 18, 1977

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	August 18, 1977
Registered Professional Engineer and Land Surveyor	NO. 277
Signature	<i>[Signature]</i>
Certificate No.	#277



APPLICATION FOR DRILLING

Harvey E. Yates Company, Inc.
Amoco Federal #2
Chaves County, New Mexico

In conjunction with Form 9-331C, Application for Permit to Drill, subject well in Section 1, Township 8S, Range 30E, Chaves County, New Mexico, Harvey E. Yates Company, Inc. submits the following ten items of pertinent information in accordance with U. S. G. S. 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 KB measurement:

Rustler Anhydrite	1199'
Yates	1700'
Seven Rivers	1874'
Bowers	2192'
Queen	2374'
San Andres	2834'
Pi Marker	3378'
P 1	3523'
P 2	3611'
P 3	3707'
Total Depth	3800'
3. The estimated depths at which anticipated water, oil or gas formations are expected to be encountered:

Water	- at approximately 100' or less
Oil	- San Andres at approximately 2834' and P 1, P 2, and P 3.
4. Proposed casing program: See Form 9-331C.
5. Pressure control equipment: See Form 9-331C and Exhibit "E".
6. Mud program: See Form 9-331C.
7. Auxiliary equipment: Blowout preventer.
8. Testing, logging and coring programs: Sidewall Neutron Density, Dual Laterolog RXO. No coring is planned. Possible DST in the San Andres.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval, but not later than September 1, 1977.

SURFACE USE PLAN

Harvey E. Yates Company, Inc.
Amoco Federal #2
Chaves County, New Mexico

1. EXISTING ROADS:

- A. Please refer to Exhibit "A". Travel from Roswell 25 miles on U. S. Highway 70. At this time you should come to a road that is commonly known as Railroad Mountain road. Turn onto this road and travel for about 15 miles and you will come to a road that intersects Railroad Mountain road. Turn south on this road and travel 1 1/2 miles, turn east on ranch road and continue for about 2 1/2 miles. At this point there should be a road on your left and heading north. Turn onto this road and continue until you come to the Amoco Federal #1 location. The proposed new access road will begin at the Amoco Federal #1 and head west to the Amoco Federal #2 location, a distance of 1320'.

2. PLANNED ACCESS ROAD:

- A. Please refer to Exhibit "B" on which the planned access road is color coded green. This new road will run due west from the Amoco Federal #1. The road will be 12' X 6" compacted caliche. Caliche for the construction of this proposed road and drilling pad will be obtained from a private pit owned by Emmet McCombs and located in NE/SE Section 6.

3. LOCATION OF EXISTING WELLS:

- A. Please refer to Exhibit "B". There is one producing well in Section 1 and 7 producing wells in Section 6. The wells shown on Exhibit "B" are the Amoco Federal #1 in Section 1 and the Exxon Federal #2 and #3 and the Graves #2 and #3. These wells are color coded blue.

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION, GATHERING AND SERVICE LINES:

- A. Please refer to Exhibit "B" on which the tank battery for the Amoco Federal #1 is shown and color coded yellow.
- B. The production facilities to be installed in the event the proposed well is productive will be a flow line from the Amoco Federal #2 to the tank battery located at the Amoco Federal #1. This proposed flow line is color coded light blue. If productive, a power line will also be constructed and this is color coded brown.
- C. The only equipment to be employed on the above location will be a pumping unit.

5. LOCATION AND TYPE OF WATER SUPPLY:

- A. Water will be obtained from commercial sources.

6. SOURCE OF CONSTRUCTION MATERIAL:

- A. Caliche will be obtained from a private pit owned by Emmet McCombs located in NE/SE Section 6.

Surface Use Plan

Harvey E. Yates Company, Inc.

Amoco Federal #2

Page 2

7. METHODS OF HANDLING WASTE DISPOSAL:

- A. Waste will be buried in reserve pits at a depth of 24". The well site will be cleaned of all waste and this will be done within 10 days after completion of well.

8. ANCILLARY FACILITIES:

- A. None required.

9. WELLSITE LAYOUT:

- A. Please refer to Exhibit "C" on which is shown a configuration of WEK Drilling Co., Inc. Rig #1. The well site will need no unusual amount of cut or fill. We do not plan to line reserve pits.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. If the well is completed as a producing well, we will knock down pits and smooth out the surface. If not productive, in addition to the above, we will level the location.

11. OTHER INFORMATION:

- A. The surface is owned by Dillard Nuckols and arrangements have been made with him as to surface damage payment.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE:

- A. The responsible field representatives are as follows:

Drilling - Fred G. Yates
Harvey E. Yates Co., Inc.
Suite 1000
Security Bank Building
Roswell, New Mexico 88201

Off. Telephone: 505-623-6601
Mobile Phone: 505-623-0989 #4109
Home Phone: 505-622-5387

Production - Herbert Spencer
H & S Oil Company
216 American Home Bldg.
Artesia, New Mexico 88210

Off. Phone: 505-746-6658
Mobile Phone: 505-365-2504
Home Phone: 505-746-2495

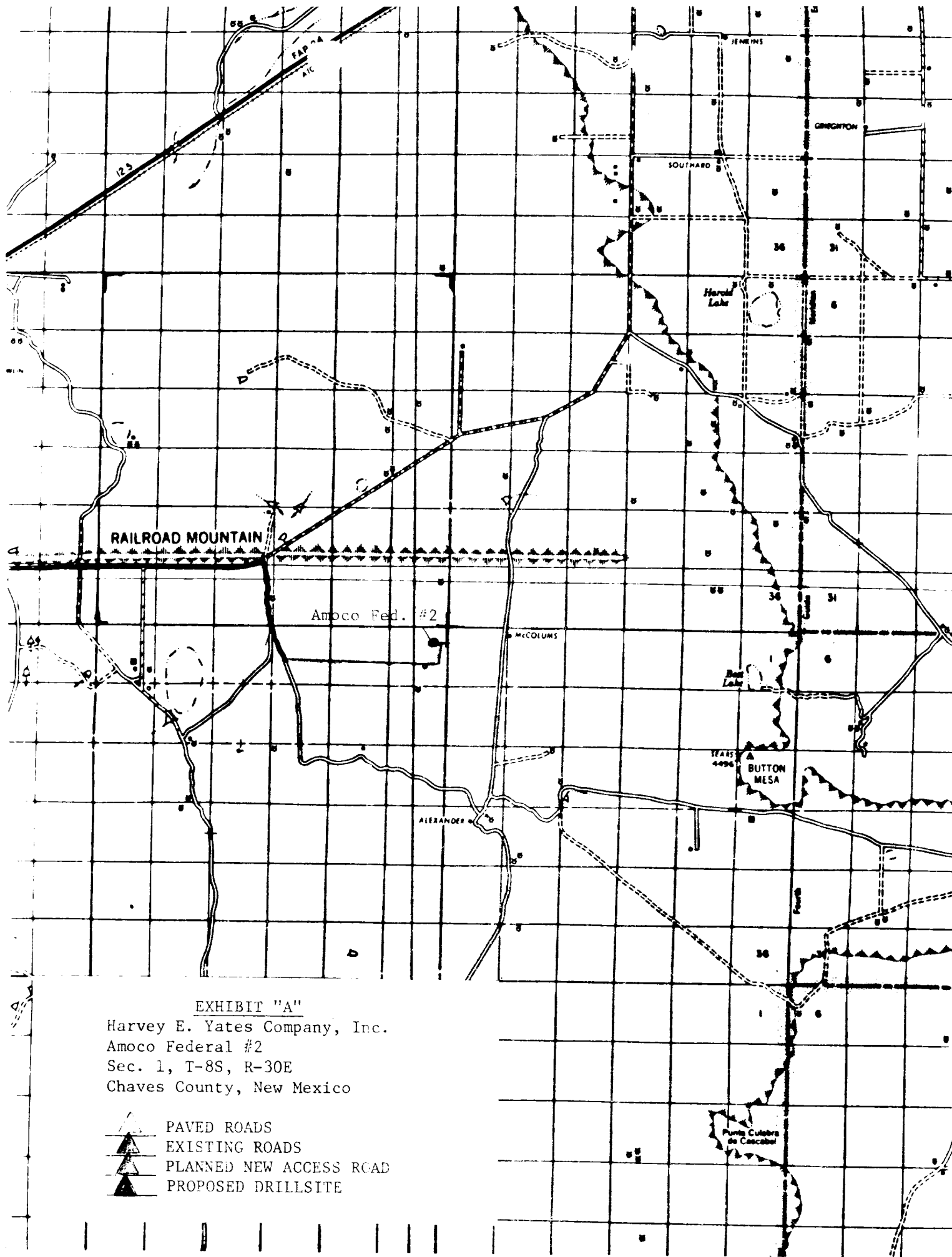
13. CERTIFICATION:

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 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 Harvey E. Yates Co., Inc. and its contractors and sub-contractors in conformity with this plan and the terms under which it is approved.

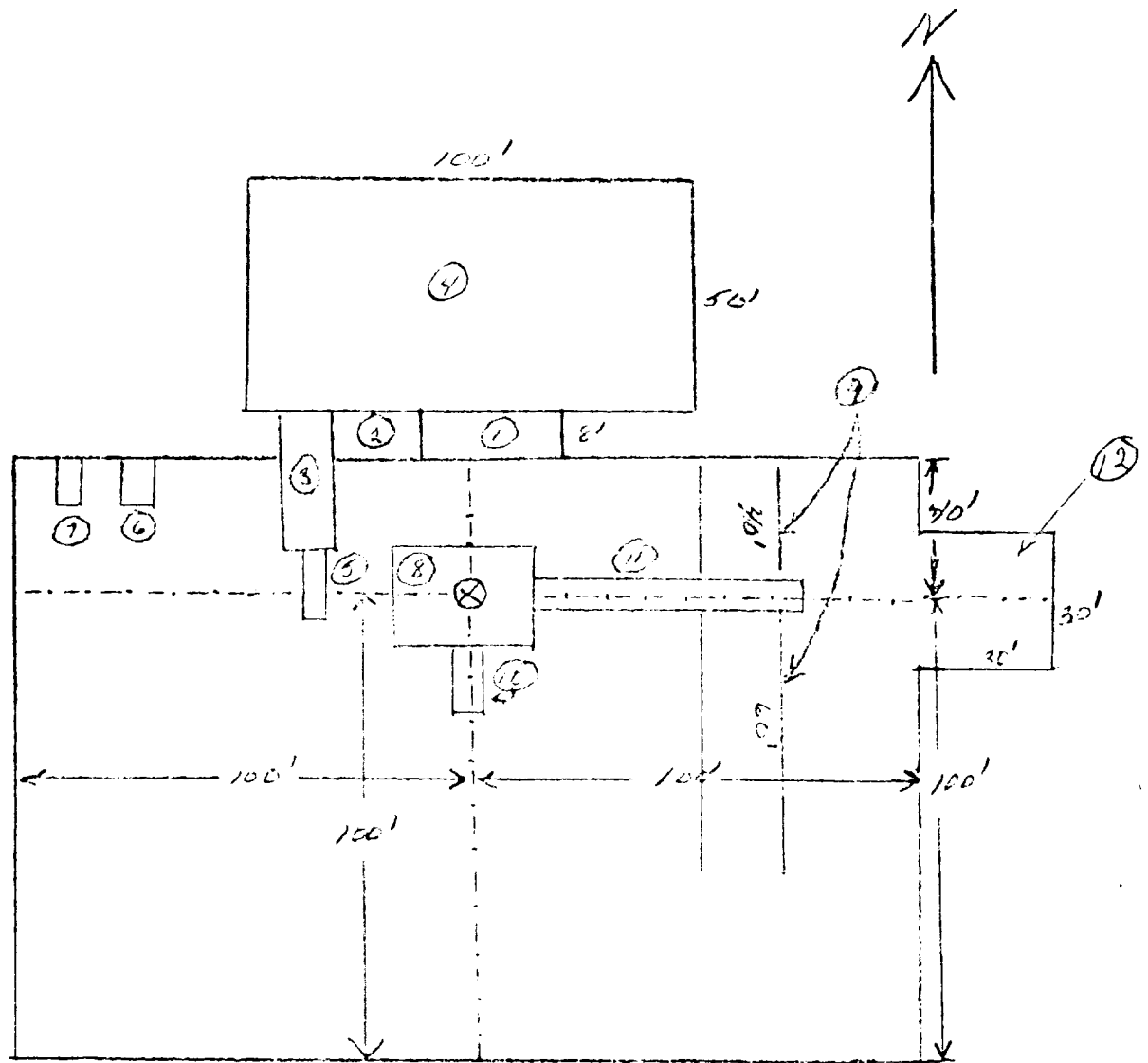
Date

Name and Title

Vice President



WEK DRILLING CO., INC.
RIG #1 LOCATION & MUD PIT SPECS.



- | | |
|--------------------------|----------------|
| ① Shale Pit 30' x 8' | ⑥ Water Tank |
| ② Mud Pit 20' x 8' | ⑦ Fuel Tank |
| ③ Suction Pit 30' x 8' | ⑧ Rig |
| ④ Reserve Pit 100' x 50' | ⑨ Pipe Racks |
| ⑤ Pump | ⑩ Dog House |
| | ⑪ Cat Walk 60' |
| | ⑫ Stinger |

Schaeffer Type E 10" Series 900 Hydraulic BOP. The waste and debris from this well will be disposed of in a reserve pit and covered up.

EXHIBIT "C"

Harvey E. Yates Company, Inc.
Amoco Federal #2
Sec. 1, T-8S, R-30E
Chaves County, New Mexico

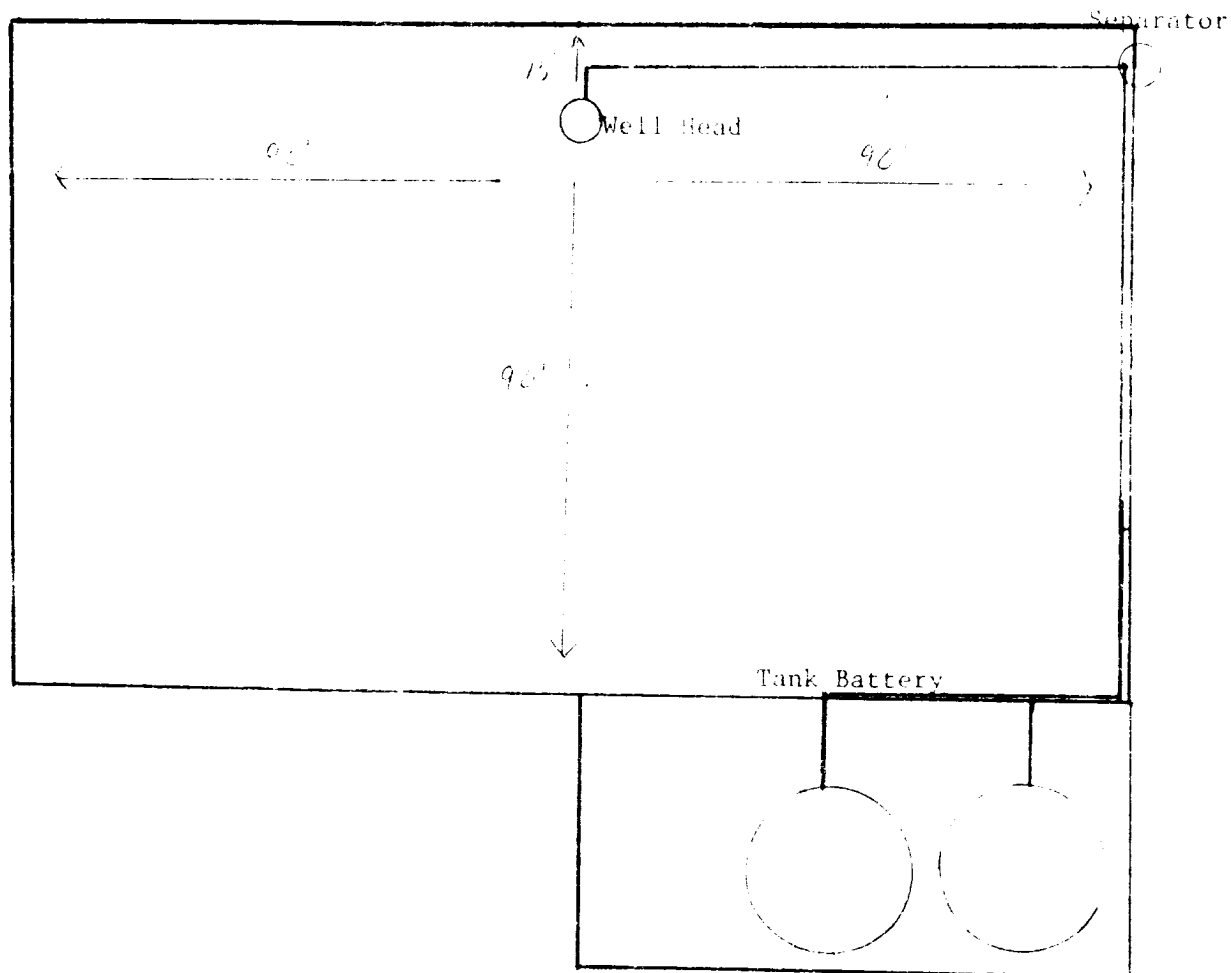


EXHIBIT "D"

Harvey E. Yates Company, Inc.
 Amoco Federal #2
 Sec. 1, T-8S, R-30E
 Chaves County, New Mexico

900 Series

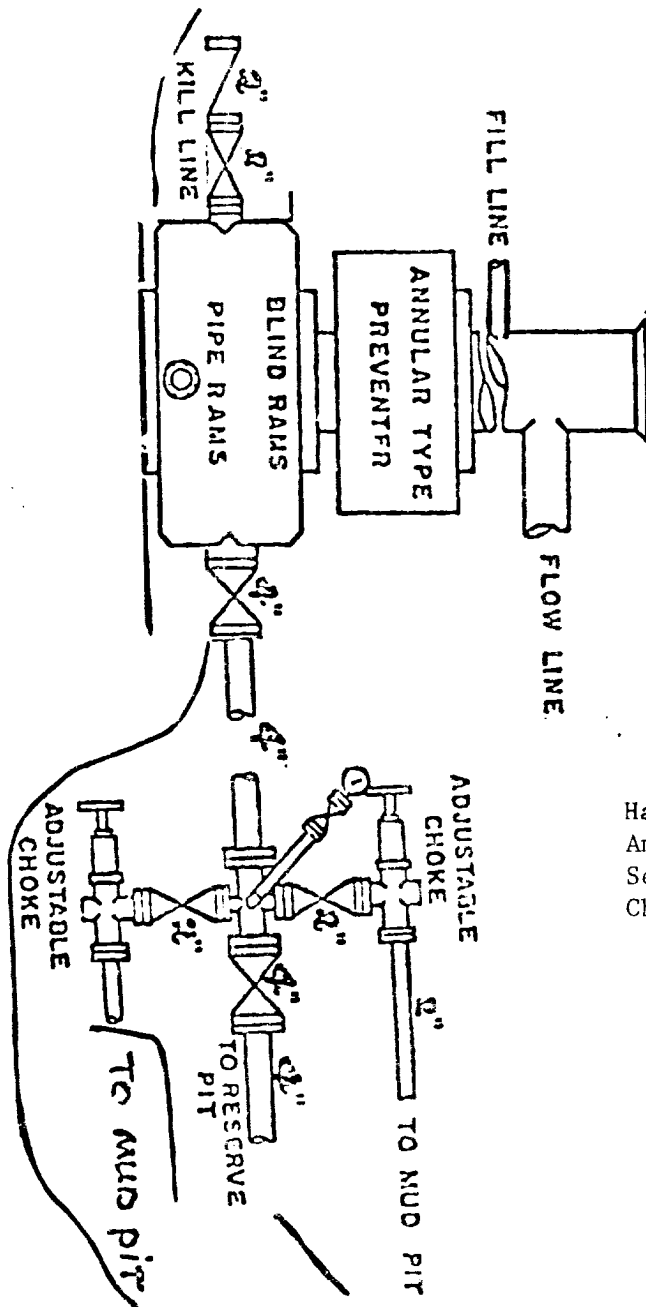


EXHIBIT "E"

Harvey E. Yates Company, Inc.
 Amoco Federal #2
 Sec. 1, T-8S, R-30E
 Chaves County, New Mexico