

NM OIL CONS. COMMISSION
Drawer 1
Artesia UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYSUBMIT IN : LICATE*
(Other instructions on
reverse side)Form approved.
Budget Bureau No. 42-R1425.

30-015-23937

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
MWJ PRODUCING COMPANY (Ph. 915-682-5216)

3. ADDRESS OF OPERATOR
1804 First National Bank Bldg., Midland, Texas 79701

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface 1980' FNL & 660' FWL Sec. 31-16S-28E
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
10 1/2 air miles east-northeast of Artesia, 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 692.31

17. NO. OF ACRES ASSIGNED TO THIS WELL 329.48

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

19. PROPOSED DEPTH 9600' Morrow

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3525 G.L.

22. APPROX. DATE WORK WILL START* October 8, 1981

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"	48.0#	180'	Sufficient to circulate
11 "	8 5/8"	24.0#	1800'	Sufficient to circulate
7 7/8"	4 1/2"	11.6#	9600'	250 sacks

After setting production casing, potential pay zones will be perforated and stimulated as considered appropriate.

Attached are: 1. Well Location and Acreage Dedication Plat
2. Supplemental Drilling Data
3. Surface Use Plan

Gas is not dedicated.

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 James A. Gillham TITLE Agent DATE Sept. 16, 1981

(This space for Federal or State office use)

PERMIT NO. 200 APPROVAL DATE SEP 21 1981

APPROVED BY JAMES A. GILLHAM TITLE DISTRICT SUPERVISOR DATE SEP 21 1981

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

Posted ID-1
API + NL Book
10-2-81
RECEIVED
SEP 17 1981
OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

**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.

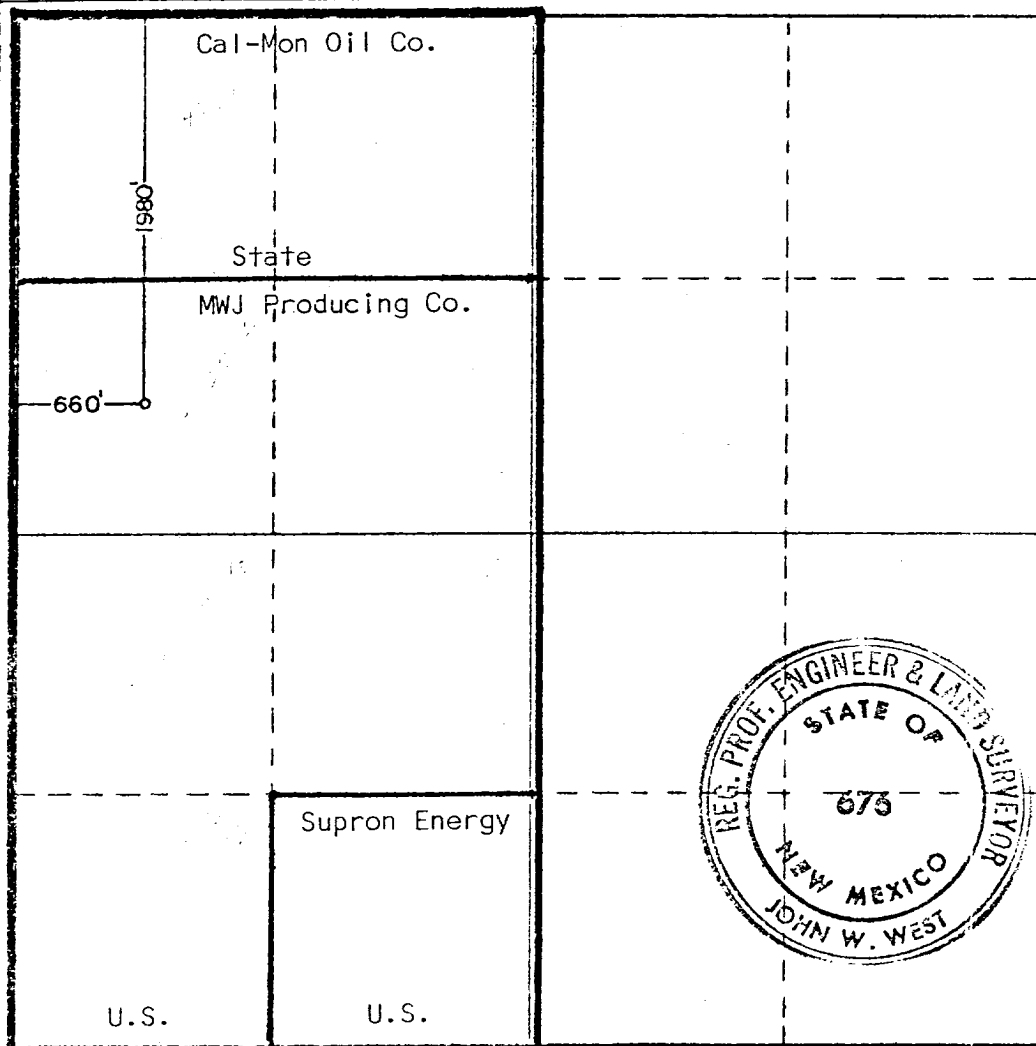
Operator MWJ PRODUCING CO.			Lease DOG CANYON 31 E FED.		Well No. 1
Unit Letter E	Section 31	Township 15 SOUTH	Range 28 EAST	County EDDY	
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line					
Ground Level Elev. 3524.9	Producing Formation Morrow		Pool U.S. Crow Flats Morrow	Dedicated Acreage: 329.48 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or machine 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 Letter agreement, to be formally communitized if well is productive.

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.

James A. Knauf
Name

James A. Knauf

Position

Agent

Company

MWJ PRODUCING CO.

Date

September 16, 1981

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

8-20-81

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. **JOHN W. WEST 675**
PATRICK A. ROMERO 6663
Ronald J. Fiddens 3230

330 660 990 1320 1650 1980 2310 2640 2970 3300 3630 3960 4290 4620 4950 5280 5610 5940 6270 6600

SUPPLEMENTAL DRILLING DATA

MWJ PRODUCING COMPANY
WELL #1 DOG CANYON 31 E FEDERAL
SW $\frac{1}{4}$ NW $\frac{1}{4}$ SEC. 31-16S-28E
EDDY COUNTY, NEW MEXICO

1. SURFACE FORMATION: Permian (Salado).

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Yates	190'	Cisco	7450'
Queen	910'	Canyon	8120'
San Andres	1720'	Strawn	8450'
Abo	5160'	Atoka	9000'
Wolfcamp	6330'	Morrow Lime	9300'
		Mississippi	9560'

3. ANTICIPATED POROSITY ZONES:

Water: 60 - 80'.
Oil: Premier, Wolfcamp.
Gas: Atoka, Morrow.

4. CASING DESIGN:

<u>Size</u>	<u>Interval</u>	<u>Weight</u>	<u>Grade</u>	<u>Joint</u>	<u>Condition</u>
13 3/8"	0 - 180'	48.0#	K-55	STC	New
8 5/8"	0 - 1800'	24.0#	K-55	STC	New
4 1/2"	0 - 1400'	11.6#	K-55	Butt	New
	1400 - 8600'	11.6#	K-55	STC	New
	8600 - 9600'	11.6#	N-80	LTC	New

5. SURFACE CONTROL EQUIPMENT: One annular and two ram-type 900-series preventers. BOP Sketch attached.

6. DRILLING FLUID:

0 - 180' Fresh spud mud.
180 - 8500' Fresh water with gel or lime as needed for viscosity.
8500 - TD KCL water conditioned as necessary for control of viscosity, pH, and water-loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.

8. TESTING, LOGGING AND CORING PROGRAMS:

DST's: As warranted.

Coring: None planned.

Logging: A compensated Neutron/Formation Density Log w/Gamma Ray
and a Dual Laterolog/Micro-Spherically Focused Log.

9. ABNORMAL PRESSURES, TEMPERATURES OR GASES: None anticipated.

10. ANTICIPATED DATES:

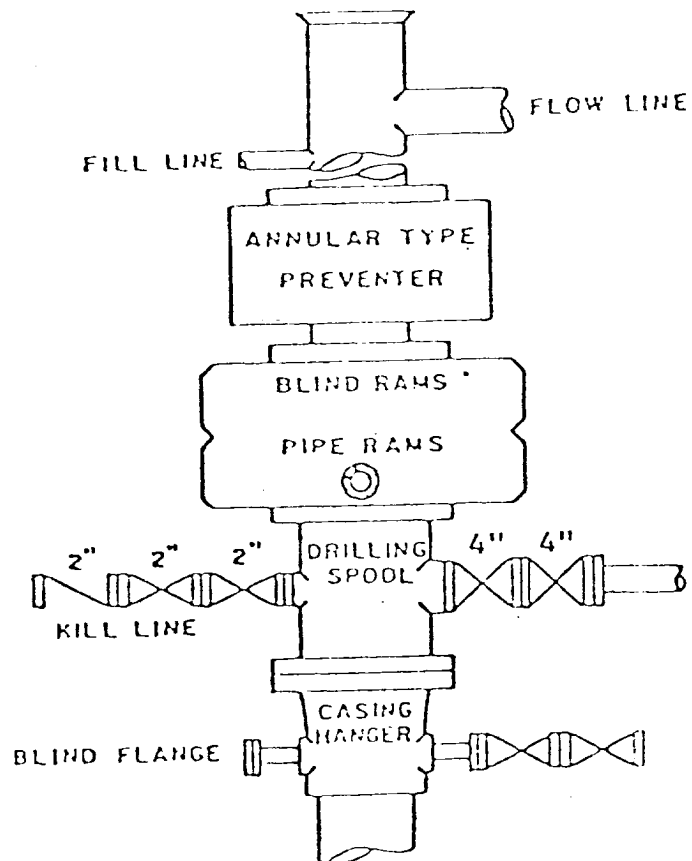
Road and pad construction: October 8, 1981

Spud well: October 15, 1981

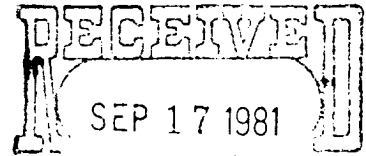
Duration of drilling & testing: 40 - 60 days.

BLOWOUT PREVENTER SKETCH

MWF Producing Company
Well #1 Dog Canyon 31 E Federa
SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 31-16S-28E



SURFACE USE PLAN
FOR
DRILLING, COMPLETING AND PRODUCING



OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

MWJ Producing Company
Well #1 Dog Canyon 31 E Federal
1980' FNL & 660' FWL Sec. 31-16S-31E
Eddy County, New Mexico

LOCATED: 10½ air miles east-northeast of Artesia, N. M.

FEDERAL LEASE NUMBER: NM-12110

LEASE ISSUED: 8-1-70 for a primary term of ten years. Two-year extended term by drilling will expire 7-31-82. Lease is in producing status by commitment to Communitization Agreement SR-30.

RECORD LESSEE: Martin, Williams & Judson, d/b/a MWF Producing Company.

BOND COVERAGE: Lessee's \$25,000 state-wide bond.

ACRES IN LEASE: 692.31

SURFACE OWNERSHIP: Federal

GRAZING PERMITTEE: Bogle Farms, Inc.
P. O. Box 358, Dexter, N. M. 88230

POOL: Crow Flats Morrow (Ext.). 320-acre spacing

EXHIBITS:

- A. County Road Map
- B. Topographic Map
- C. Oil and Gas Map
- D. Sketch of Well Pad

ROAD LOG TO PROPOSED DRILLSITE

STARTING POINT is on US-82 at Milepost 117.03. This point is at the cattleguard, just south of the electric substation, which is approximately 9½ miles east of Artesia, New Mexico.

- 0.00 Turn north through cattleguard and proceed on a dirt road in a northerly direction for a distance of 2.75 miles to a "Y" in the road. (The access road circles around the east side of the electric substation and heads due north.)
- 2.75 Turn right (northeast) on dirt road and proceed in a northeasterly direction for a distance of 1.09 miles.
- 3.84 Turn left (north) on a dirt road and proceed in a north and northeasterly direction for a distance of 0.26 mile to a five-fork intersection.
- 4.10 Turn left (north) on the middle road of the three north roads and proceed in a northerly and northwesterly direction for a distance of 1.07 miles to the east side of the well pad of gas well in the NE¼SE¼ 36-16S-27E.
- 5.17 New Road Starts At This Point. Turn right (northeast) and proceed in a northeasterly direction for a distance of 0.31 mile to southwest corner of the proposed well pad.
- 5.48 PROPOSED DRILLSITE (Well #1 Dog Canyon 31 E Federal).

THIRTEEN POINT PROGRAM

- 1. EXISTING ROADS: Existing roads, which lead to the proposed drillsite, are shown on Exhibits "A" & "B".
- 2. PROPOSED NEW ROAD: Proposed new access road will be 0.31 mile in length. Exhibit "B" shows proposed route which will originate at mileage-5.17 on the road log and will terminate at the west edge of the proposed drill pad. The center of the proposed new road has been staked and flagged.
 - A. Width: 16 feet with 24-foot R-O-W.
 - B. Surfacing Material: Material for surfacing will be material found in place and/or caliche.
 - C. Maximum Grade: Less than one percent.

- D. Turnouts: None necessary with 16' road.
 - E. Road Design: New road will be constructed by clearing, grading and surfacing if necessary.
 - F. Culverts: None necessary.
 - G. Gates, Cattleguards: None necessary.
3. LOCATION OF EXISTING WELLS: Existing wells in the vicinity of the proposed drillsite are shown on Exhibit "C".
4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:
- A. Operator has no production facilities on the leasehold.
 - B. If the well is productive, production and storage facilities will be installed on the well pad.
5. LOCATION AND TYPE OF WATER SUPPLY: It is not planned to drill a water supply well. Water for leasehold operations will be purchased from a commercial water hauler.
6. SOURCE OF CONSTRUCTION MATERIALS: Material for construction of the proposed new road and well pad will be obtained from an existing Federal pit in the SE-SE 35-16S-27E which was archaeologised by New Mexico Archaeological Services, Inc. on 9-4-81.
7. METHODS OF HANDLING WASTE DISPOSAL:
- A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.
 - C. Water produced during tests will be disposed of in the drilling pits.
 - D. Oil produced during tests will be produced into temporary test tanks.
 - E. Trash, waste paper, garbage, and junk will be buried in a trash pit and covered with a minimum of 24 inches of dirt. All waste material will be contained to prevent scattering by the wind. Location of the trash pit is shown on Exhibit "D".
 - F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing each drilling and/or completion operation.

8. ANCILLARY FACILITIES: None anticipated.

9. WELLSITE LAYOUT:

- A. The wellsite has been surveyed and a 400' x 500' area has been staked and flagged.
- B. The dimensions and relative location of the drill pad, mud pit, and trash pit with respect to the well bore are shown on Exhibit "D".
- C. The location is relatively level and well pad area will hardly need any cut or fill.
- D. The well pad will be surfaced with caliche.

10. PLANS FOR RESTORATION OF THE SURFACE:

- A. After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are filled.
- C. After abandonment, all equipment, trash and junk will be removed and the location cleaned. Any special rehabilitation and/or special revegetation requirements of the Bureau of Land Management will be complied with and accomplished as expeditiously as possible.

11. OTHER INFORMATION:

- A. Topography: The undisturbed wellsite elevation is 3524 feet. It is situated on the crest of a ridge and the location is relatively level. The terrain at the area surrounding the location is rolling plains and slopes to the northwest toward Dog Canyon. See Exhibit "B". Regional slope is to the west toward the Pecos River.
- B. Soil: Top soil at the wellsite is sandy clay loam.
- C. Land Type & Use: The vicinity surrounding the drillsite is semi-arid rangeland and its primary use is for grazing.
- D. Flora & Fauna: Vegetative cover is moderately sparse. Flora consists primarily of range grasses and broomweed interspersed with mesquite and other desert plants. One antelope was observed, however fauna for this type of habitat normally consists of lizards, snakes, rabbits, rodents, coyotes, skunks, quail, dove, and other small birds.
- E. Ponds & Streams: None.

E. Ponds & Streams: None.

F. Water Wells: Nearest water well is $\frac{1}{2}$ mile to the northwest.

G. Residences & Other Structures: There are no occupied dwellings within 5 miles of the drillsite.

H. Archaeological, Historical & Cultural Sites: An archaeological site was found within the original 400' x 500' staked area. After a field conference with Mr. Tom Zale, archaeologist with the Bureau of Land Management and Dr. J. Loring Haskell, investigator for New Mexico Archaeological Services, Inc., the 400' x 500' area was shrunk to a 240' x 320' work area and rotated 45° clockwise. Well pad and reserve pit will be rotated 135° clockwise to fit within this reduced area. See Exhibit "D".

I. Surface Owner: U. S. Government with a grazing permit issued to Bogle Farms, Inc., P. O. Box 358, Dexter, New Mexico 88230.

12. OPERATOR'S REPRESENTATIVE: Representative responsible for assuring compliance with the approved Surface Use Plan:

John L. Schlagal
1804 First National Bank Bldg.
Midland, Texas 79701
Office Phone 915-682-5216
Home Phone 915-683-1044

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 MWJ PRODUCING COMPANY and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

9-16-81

Date

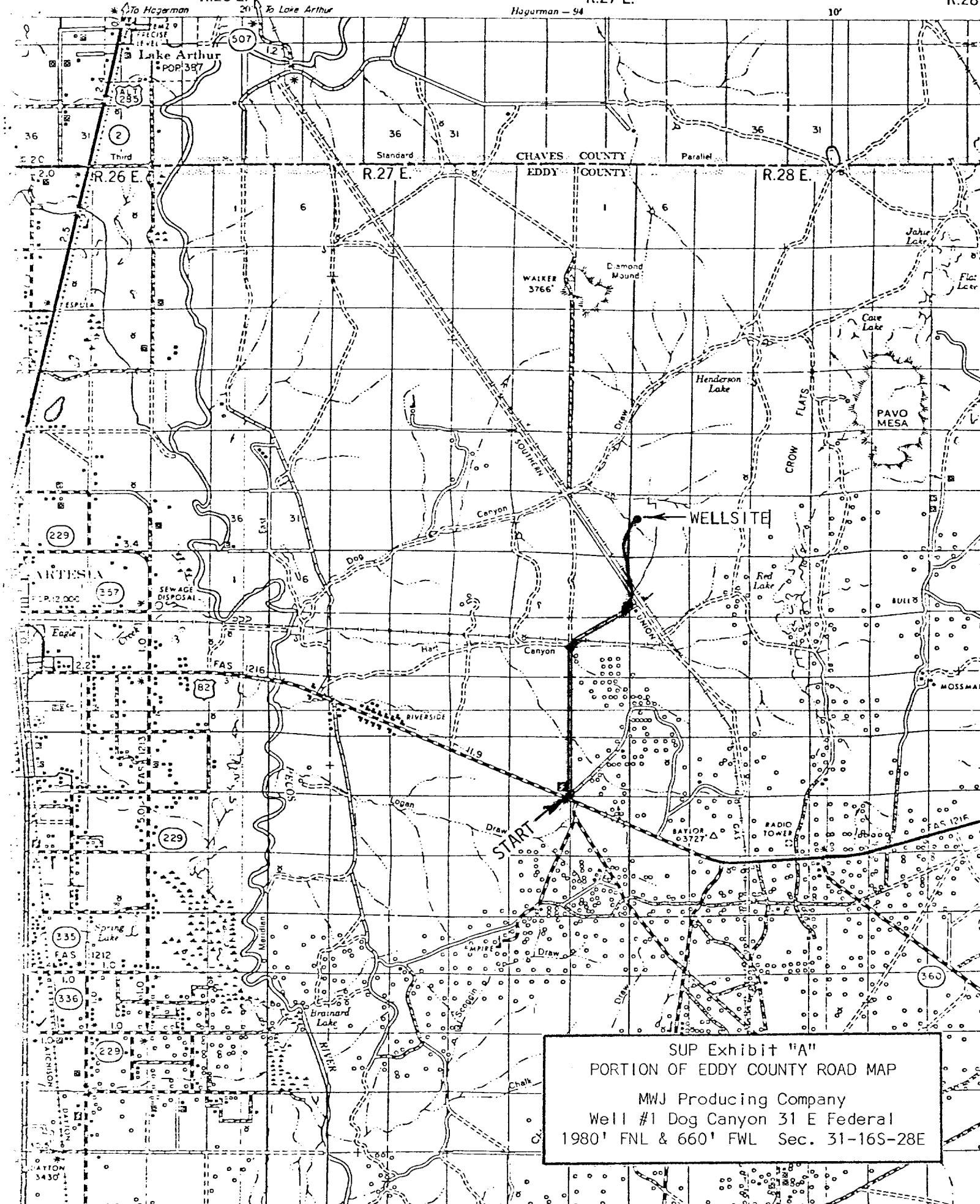


James A. Knauf, Agent
MWJ PRODUCING COMPANY

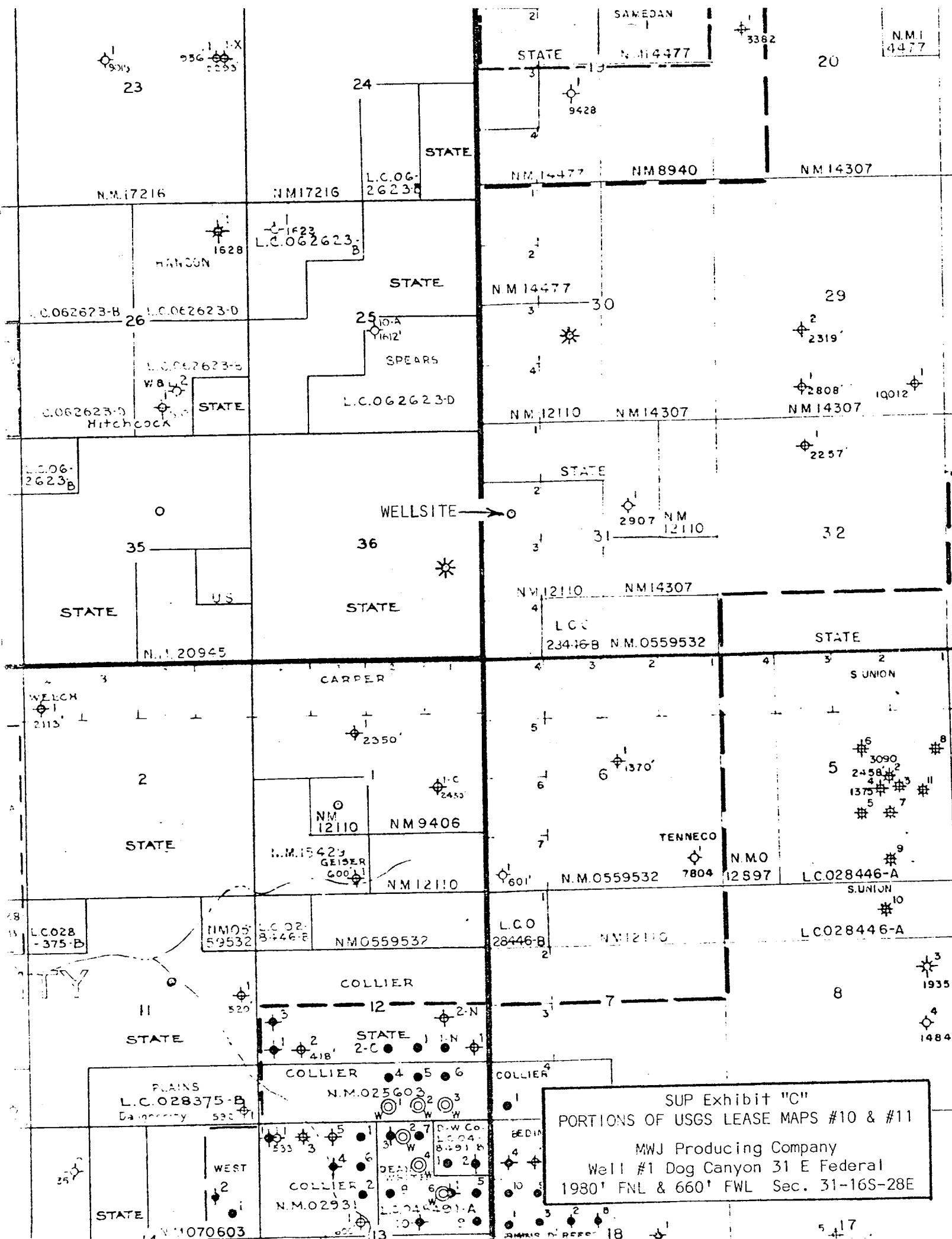
R.26 E.

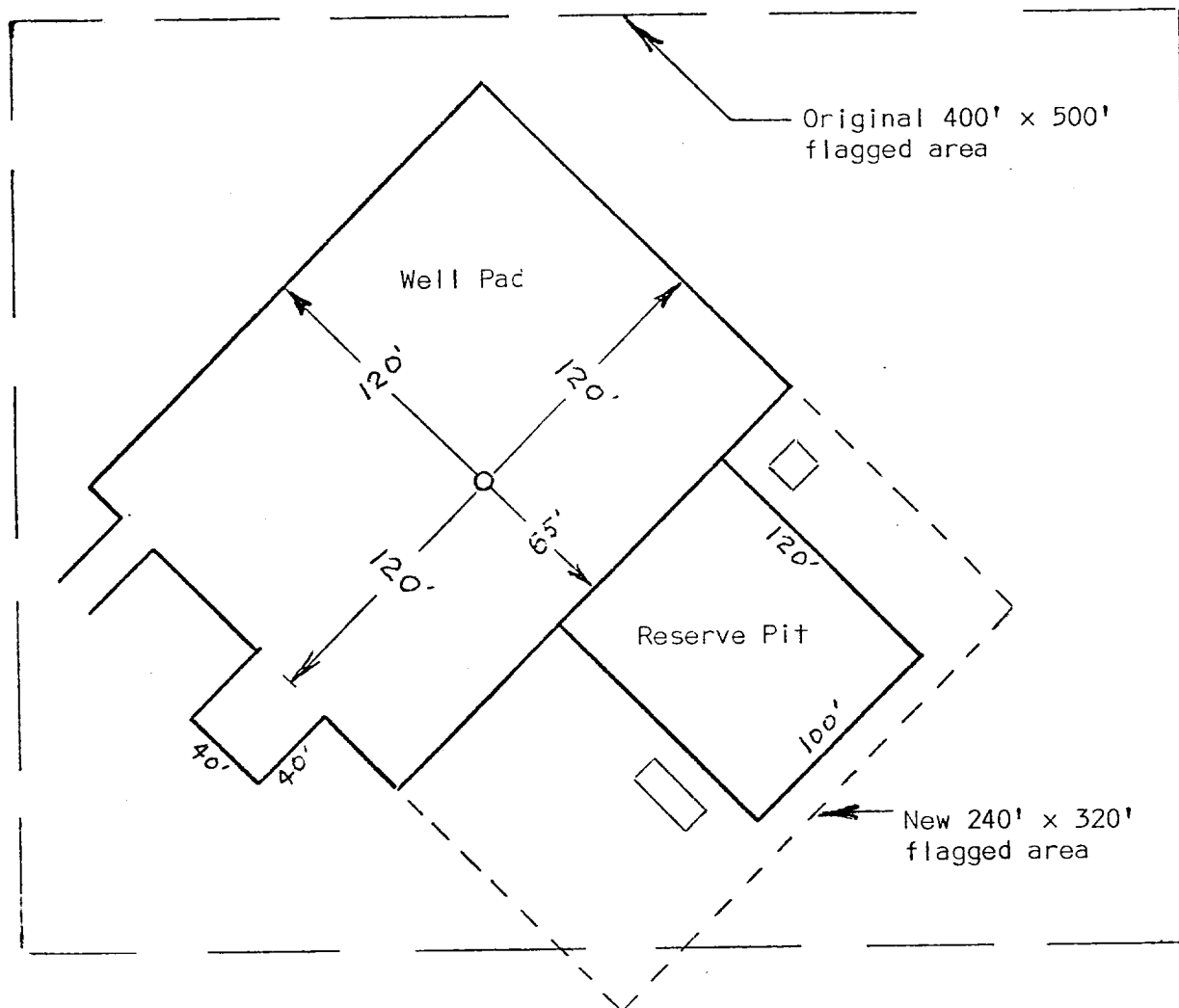
R.27 E.

R.28 E.



SUP Exhibit "A"
PORTION OF EDDY COUNTY ROAD MAP
MWJ Producing Company
Well #1 Dog Canyon 31 E Federal
1980' FNL & 660' FWL Sec. 31-16S-28E





Well pad and reserve pit will be rotated 135° clockwise to fit within the 240' x 320' work area which was flagged 9-16-81.

SUP Exhibit "D"
SKETCH OF WELL PAD

MWJ Producing Company
Well #1 Dog Canyon 31 E Federal
1980' FNL & 660' FWL Sec. 31-16S-28E