

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NM Oil Cons. Commission 30-005 62365
Drawer DD
SUBMIT IN TRI STATE
Artesia NM 310
Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

RECEIVED

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

1a. TYPE OF WORK
DRILL ☐ DEEPEN ☐ Re-Enter & PLUG-BACK ☒

b. TYPE OF WELL
OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR
Stevens & Co., Inc.

3. ADDRESS OF OPERATOR
P. O. Box 278, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
1980' FSL & 1980' FEL Sec. 20, T-11-S, R-27-E
At proposed prod. zone
1980' FSL & 1980' FEL Sec. 20, T-11-S, R-27-E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
19 miles east-southeast from Roswell, New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
1980' & 1980'

16. NO. OF ACRES IN LEASE
609.5

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.
NA

19. PROPOSED DEPTH
Clean out to 1200' K.B.

20. ROTARY OR CABLE TOOLS
Workover unit

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
3702.2' GR

22. APPROX. DATE WORK WILL START*
2/27/90

| PROPOSED CASING AND CEMENTING PROGRAM | | | | |
|---------------------------------------|----------------|-----------------|---------------|--------------------|
| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
| 17 | 13-3/8 | 48 | 401 | 500 sacks |
| 12-1/4 | 9-5/8 | NA | 1280 | 550 sacks |

This well was originally drilled by Marathon Oil Co., Park Federal No. 1, total depth 6986' K.B.
The well was plugged and abandoned on January 9, 1987.
Plug No. 1 from 6400' - 6900' with 203 sacks
Plug No. 2 from 5300' - 5400' with 85 sacks
Plug No. 3 from 2250' - 2350' with 85 sacks
Plug No. 4 from 1230' - 1300' with 85 sacks
Tagged cement at 1220' K.B.
Plug No. 5 from 350' - 450' with 85 sacks
Plug No. 6 from 50' - surface with 20 sacks.

See attached Re-Entry program for re-entry and plug-back procedure.

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 P. Roberts TITLE Agent DATE 1/30/90

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY S/Levi Deike, Acting TITLE Area Manager DATE FEB 27 1990

APPROVAL OF THIS APPLICATION DOES NOT WARRANT OR CERTIFY THAT THE APPLICANT HOLDS LEGAL OR EQUITABLE TITLE TO THOSE RIGHTS IN THE SUBJECT LEASE WHICH WOULD ENTITLE THE APPLICANT TO CONDUCT OPERATIONS THEREON.

PLEASE BE ADVISED THAT THERE WILL BE NO EXCAVATION OF FEDERALLY OWNED MINERAL MATERIAL FOR CONSTRUCTION OF THE ACCESS ROAD OR PAD WITHOUT PAYMENT IN ADVANCE.

Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-122
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

| | | | | | | | | |
|--|--------------------------------|--------------------|-------------------|---|--|-----------------------------|--|--|
| Lessor: Stevens & Co., Inc. formerly Marathon Oil Company | | | Lease: Park Field | | | Well No. #1 | | |
| Section: J | Section: 20 | Township: 11 South | Range: 27 East | County: BUREAU OF LAND MANAGEMENT ROOSEVELT RESERVE AREA | | | | |
| Actual Well Location of well: | | | | | | | | |
| 1980 feet from the South line and 1980 feet from the East | | | | | | | | |
| Ground Level Elev.: 3702.2 | Producing Formation: Fusselman | | Pool: Wildcat | | | Estimated Acreage: 40 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.

Terry L. Rivers

Terry L. Rivers

Position

Dist. Drlg. Supt.

Company

Marathon Oil Company

Date

24 November 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.

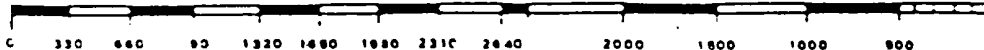
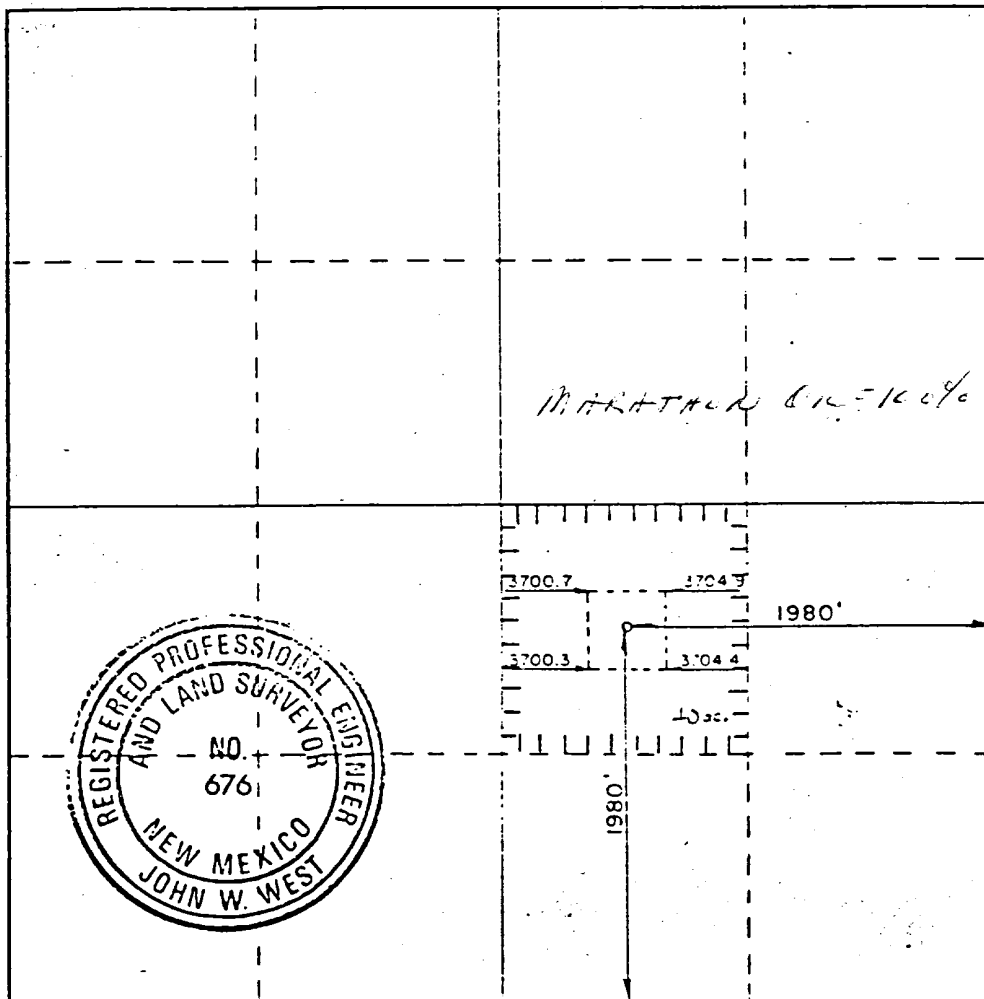
Date Surveyed

November 11, 1986

Registered Professional Engineer and/or Land Surveyor

John W. West

Certificate No. JOHN W. WEST, 676
RONALD J. EIDSON, 3239



RE-ENTRY PROGRAM

RECEIVED

STEVENS & CO., INC.

PARK FEDERAL WELL NO. 1
 ADDITIONAL INFORMATION
 Comply with order 1

FEB 14 3 01 PM '90

BUREAU OF LAND MGT
 ROSWELL RESOURCE
 AREA

In conjunction with Form 3160-3, Application to drill subject well, Stevens & Co., Inc. submits the following items of information in accordance with BLM requirements.

1. GEOLOGIC NAME OF SURFACE FORMATION

Croute Calcaire

2. TOPS OF IMPORTANT GEOLOGIC MARKERS

| | | | |
|--------------|------|------------|-------|
| Yates | 120' | Queen | 450' |
| Seven Rivers | 770' | San Andres | 1100' |

3. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL OR GAS BEARING FORMATIONS

| | | | |
|----------------------|------|--------------------|-------|
| Yates (water) | 120' | Queen (oil) | 450' |
| Seven Rivers (water) | 770' | San Andres (water) | 1100' |

4. EXISTING CASING AND CEMENT AND PLUGS SET AT TIME OF ABANDONMENT

| | |
|---------------------------------------|--|
| 13-3/8" surface set at 401' K.B. | Cement with 500 sacks cement circulated. |
| 9-5/8" intermediate set at 1280' K.B. | Cemented with 550 sacks cement circulated. |

The well was originally plugged and abandoned on 1/9/87, plugs are as follows:

Plug No. 1 from 6400' - 6900', cemented with 203 sacks cement.
 Plug No. 2 from 5300' - 5400', cemented with 85 sacks cement.
 Plug No. 3 from 2250' - 2350', cemented with 85 sacks cement.
 Plug No. 4 from 1230' - 1300', cemented with 85 sacks cement.
 Tagged cement at 1220'.
 Plug No. 5 from 350' - 450', cemented with 85 sacks cement.
 Plug No. 6 from 50' - surface, cemented with 20 sacks cement.

5. PRESSURE CONTROL EQUIPMENT (EXHIBIT A)

10" 3000 psi working pressure pipe rams and blind rams.

6. PROPOSED MUD PROGRAM

None.

7. AUXILIARY EQUIPMENT

A Kelly-Cock standing valve will be on the rig floor at all times.

8. TESTING, LOGGING AND CORING PROGRAMS

None.

9. ABNORMAL PRESSURES, TEMPERATURES OR POTENTIAL HAZARDS

None anticipated.

10. ANTICIPATED STARTING DATE

As soon as possible. Must be started by February 28, 1990.

11. GENERAL PROCEDURE TO RE-ENTER THE WELL

Prepare location for reentry/completion equipment; load clean tank with 150 bbls. of 2% KCL water, move approximately 1300' of used J-55, 2-7/8" tubing to location, tally and clean.

Cut off surface plate and drill surface plug with a "starting hole" rig if possible; if not, use a jack hammer to start hole.

Weld extension to 9-5/8" casing and install starting head.

Move in and rig up pulling unit with reverse equipment.

Nipple up BOP; fill steel working pit with fresh water.

Finish drilling surface plug.

Go in hole with bit, drill collars and tubing to first plug at approximately 350' K.B.; pressure test casing with 500 psig for 30 minutes.

Drill plug and circulate hole.

Continue in hole to top of cement at approximately 1220' K.B.; circulate hole clean.

Pressure test casing with 500 psig for 30 minutes.

Pull up hole to 860' K.B.

Circulate 150 gallons of 15% HCL to bottom of tubing; reverse acid to pit to clean tubing.

Displace hole with clean 2% KCL water; circulate 500 gallons of 10% MS acid to spot.

Pull out of hole; keep hole full and lay down drilling equipment.

Rig up electric line company; perforate top down, one shot per foot (total of 25 shots), as follows with a premium, deep penetrating gun: 790' - 792' K.B.; 795' to 802' K.B.; 814' to 816' K.B.; 820' to 826' K.B.; 840' to 842' K.B.; 846' to 850' K.B..

Go in hole with mule-shoe sub, seating nipple and tubing to approximately 750' K.B.

Displace acid; do not exceed 200 psig without approval.

Swab and/flow to test.

Fracture treat well if required.

Flow/swab to test.

Install surface producing equipment.

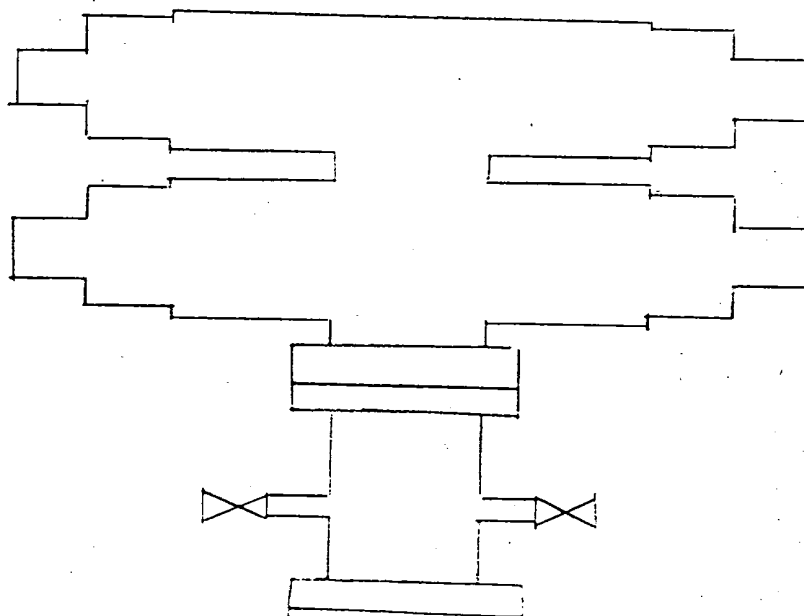


EXHIBIT "A"
BOP STACK ARRANGEMENT
STEVENS & CO., INC.
PARK FEDERAL NO. 1
10" 3000 psi Working Pressure
Pipe Rams and Blind Rams.

MULTIPOINT SURFACE USE AND OPERATIONS PLAN RECEIVED

STEVENS & Co., Inc.

PARK FEDERAL WELL NO. 1
1980' FSL & 1980' FEL
Section 20, T-11-S, R-27-E
Chaves County, New Mexico
Lease No.: NM 54272

FEB 14 3 00 PM '90

BUREAU OF LAND MGT
ROSWELL RESOURCE
AREA

(Formally Marathon Oil Company Park Federal No. 1)

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedure to be followed in rehabilitating the surface after the completion of all operations so that a complete appraisal can be made of the environmental effects associated with the proposed operations.

1. EXISTING ROADS

Exhibit "B" is a portion of a topographic map showing the location of the proposed well as staked. Proceed east from Roswell, New Mexico, on Highway 380. Turn south off of Highway 380 (.3 miles east of mile marker No. 173) on to County Road Aleut. Travel 4.8 miles south to cattle guard, go through cattle guard and circle back to the west for 1/4 of a mile to a second cattle guard. Go .7 miles west along fence line, then southwest 1.1 miles to the location.

2. PLANNED ACCESS ROADS

Caliche and graded roads to the location currently exist. No new roads are planned.

3. LOCATION OF EXISTING WELLS

Exhibit "C" is a map showing the location of all of the wells in a one mile radius of the proposed well.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

- A. Exhibit "D" is a map of the existing roads with the proposed well location. There are no existing facilities or lines.
- B. In the event of a producible well, treatment facilities and a tank battery will be constructed on the location with production metered at the separation facilities. The gas will be piped to existing flow lines in a manner to be determined at a later date, assuming the well produces marketable gas. Oil will be trucked from location.

5. LOCATION AND TYPE OF WATER SUPPLY

KCL water will be trucked in and stored in a water tank.

6. SOURCE OF CONSTRUCTION MATERIALS

The original pad is still somewhat existing. The pad will be bladed and compacted with water. No new construction materials will be needed.

7. METHODS OF HANDLING WASTE DISPOSAL

- A. Drill cuttings will be disposed of in the working pit.
- B. Drilling fluids will be allowed to evaporate in the working pit until the pit is dry.

- C. Water produced during swab/flow tests will be disposed of in the working pit and hauled to an approved salt water disposal well.
- D. Current laws and regulations pertaining to the disposal of human waste be complied with.
- E. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24" of dirt. Location of the trash pit is shown on Exhibit "E".
- F. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and completion operations.

8. ANCILLARY FACILITIES

None required.

9. WELLSITE LAYOUT

- A. Exhibit "E" shows the relative locations of the workover components, (dirt) working pit, and trash pit.

10. PLANS FOR RESTORATION OF SURFACE

- A. After finishing drilling and completion operations all equipment and other materials not necessary for operations will be removed. Pits will be filled and leveled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as is possible.
- B. Any unguarded pits containing fluids or trash will be fenced until they are filled or leveled.
- C. After abandonment of well, equipment will be removed, the location will be cleaned, and the all caliche from the drilling pad will be removed, and re-seeded as to Bureau of Land management specifications.
- D. A copy of the Agreement for Compensation and Rehabilitation of Privately Owned Surface Rights is enclosed.

11. OTHER INFORMATION

A. Topography

The location is situated on a gradual decline, (very slight - 6-12" every 100') towards the Pecos Valley.

B. Soil

Type Calciorthid subgroup.

C. Flora and Fauna

The vegetation cover consists of creosote bush, Javelina bush, and cactus. The range grass consist of 3-AWN, gramma, drop seed and other miscellaneous grasses.

D. Ponds and Streams

None in the vacinity.

E. Residence and Structures

There is a Major power line running east and west 1/2 mile south of the location. There is a windmill 1/2 mile south of the location and scattered pump jacks.

Multipoint Surface Use and Operations Plan

F. Archeological, Historical, and Cultural Sites

None observed in the area. The Archeological Inspection Report is included with this application.

G. Land Use

Grazing.

H. Surface Ownership

L-A Ranch Partnership
Auto Route East, P. O. Box 209
Roswell, New Mexico 88201

12. OPERATORS REPRESENTATIVE

James F. O'Briant
O'Briant Engineering
P. O. Box 10487
Midland, Texas 79702
(915) 683-5511

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 Stevens & Co., Inc. and its agents, contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 USC 1001 for the filing of a false statement.

2/7/90
Date

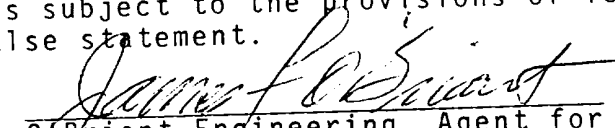
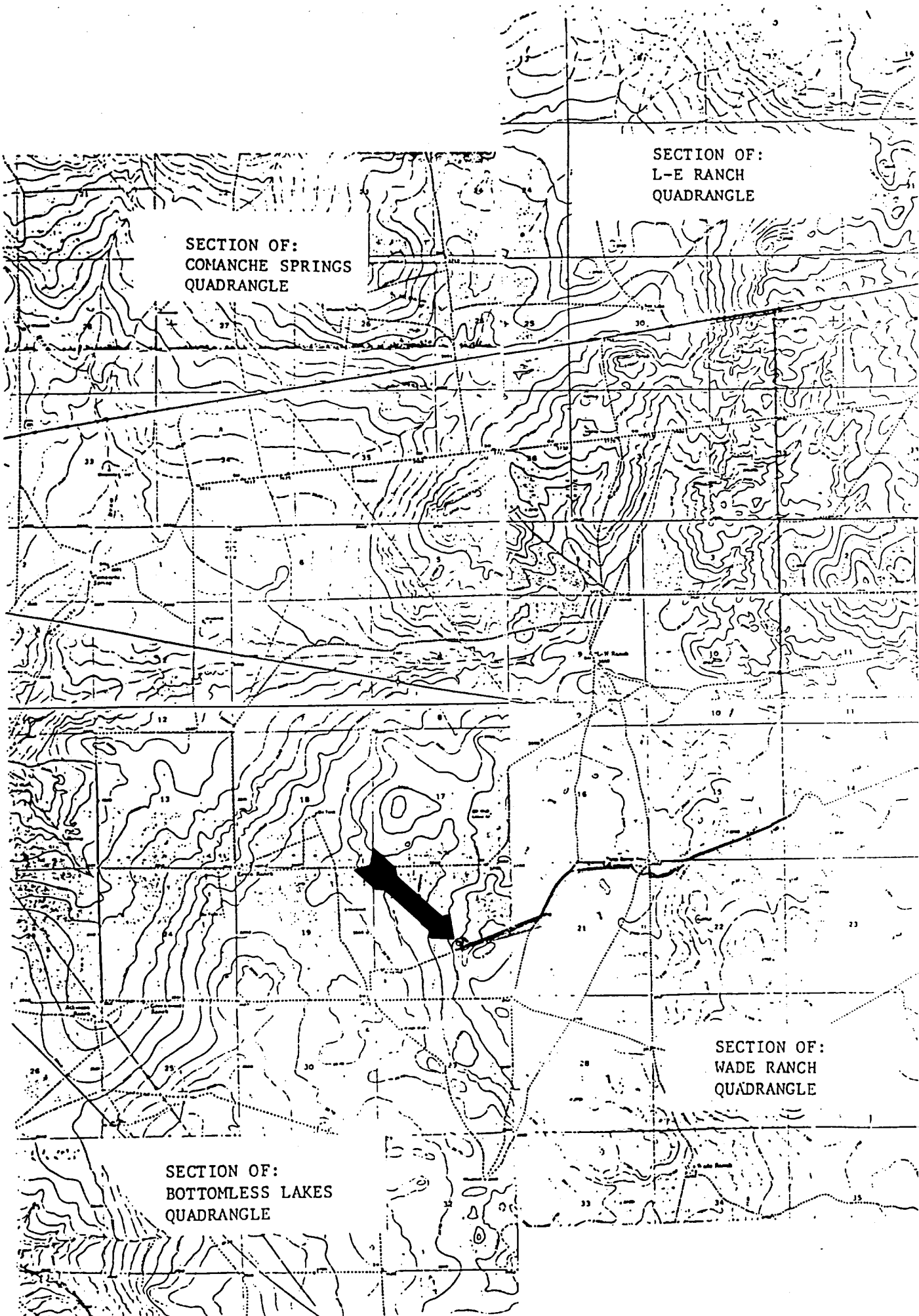
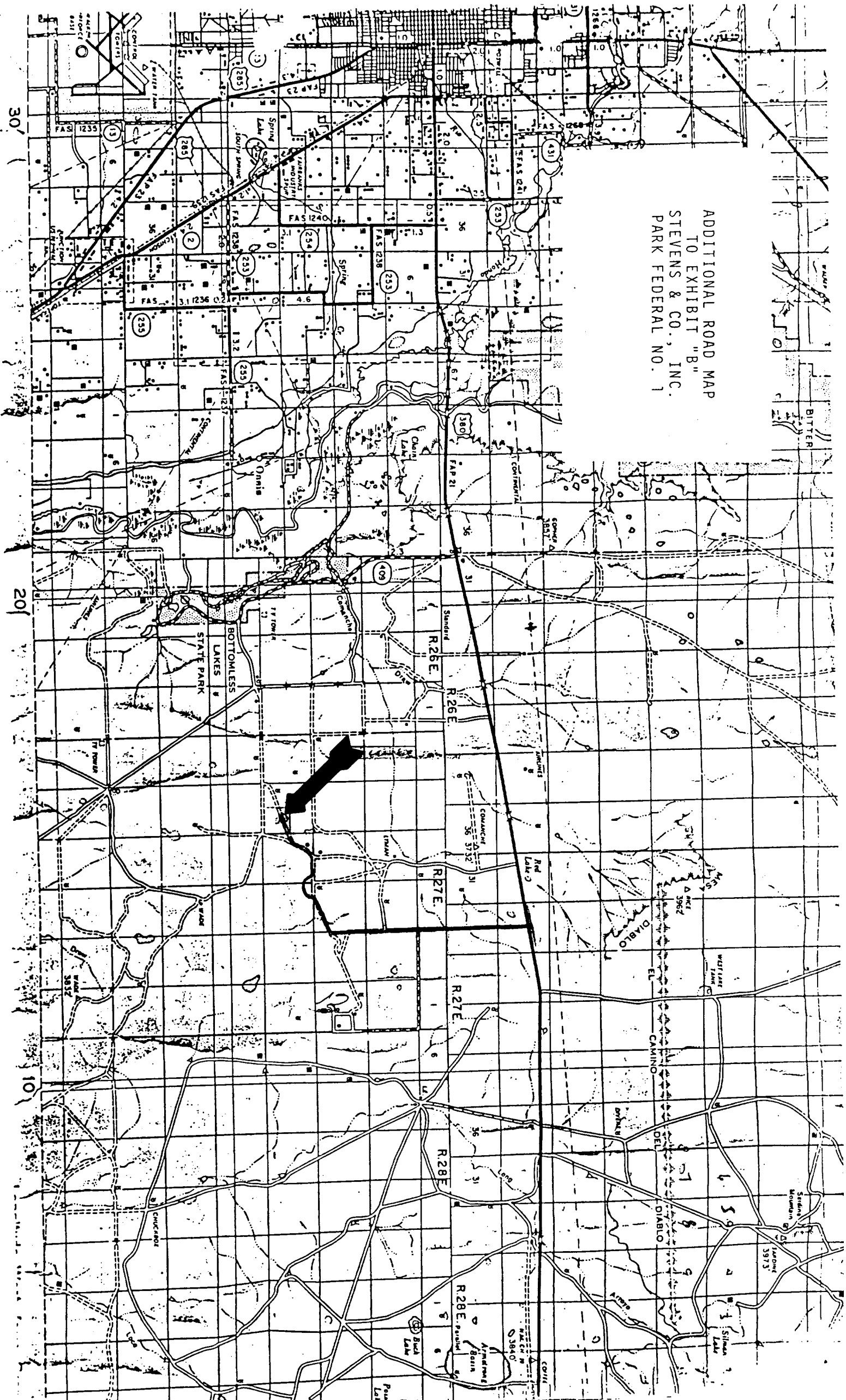
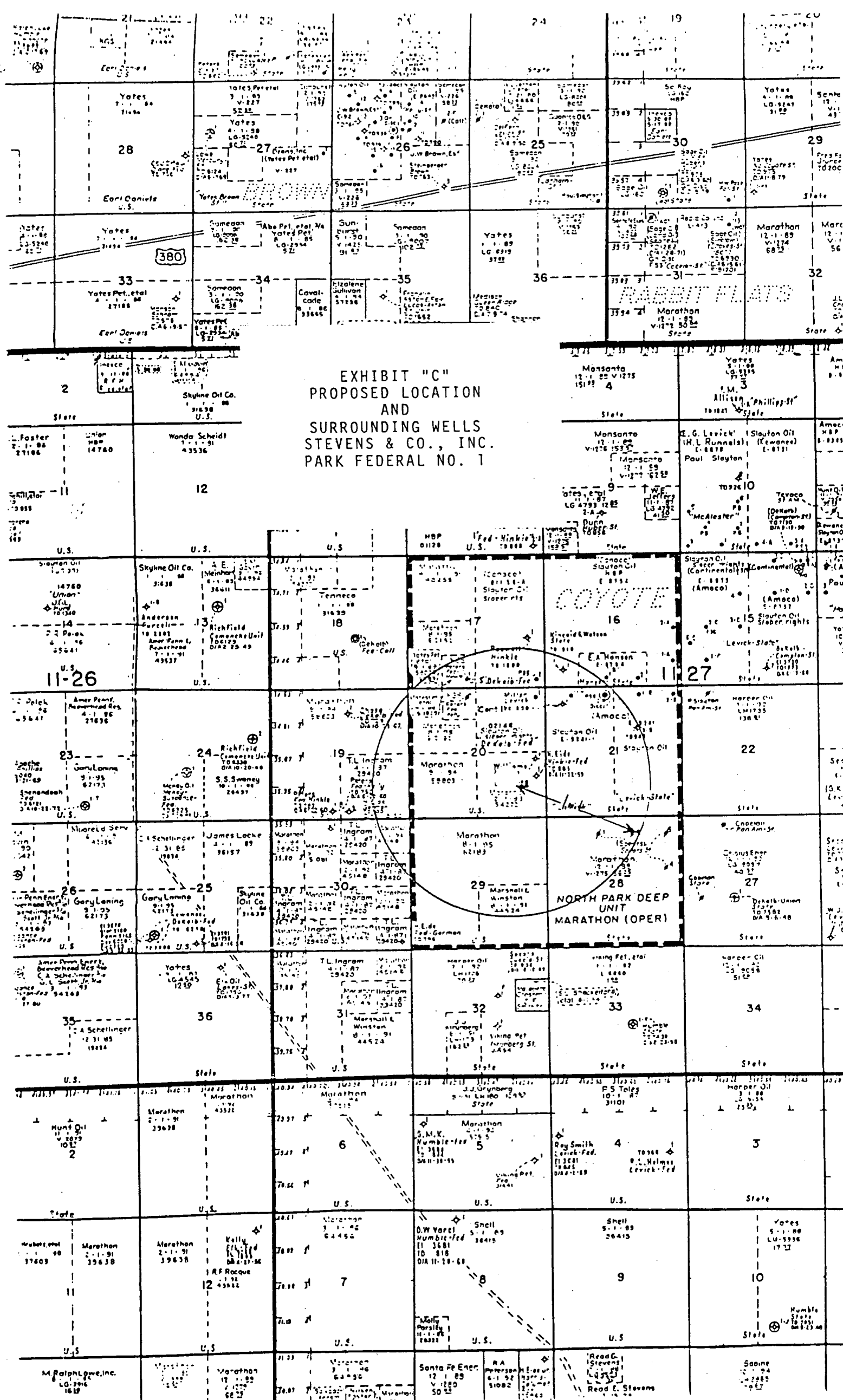

O'Briant Engineering, Agent for
Stevens & Co., Inc.
James F. O'Briant
Registered Professional Engineer

EXHIBIT "B"
PROPOSED ROUTE
STEVENS & CO., INC.
PARK FEDERAL WELL NO. 1



ADDITIONAL ROAD MAP
TO EXHIBIT "B"
STEVENS & CO., INC.
PARK FEDERAL NO. 1





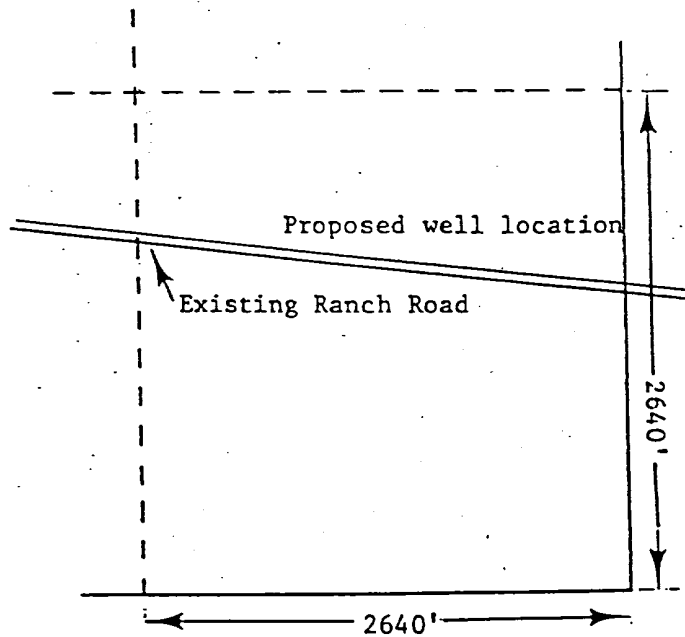


EXHIBIT "D"
EXISTING LINES AND ROADS
STEVENS & CO., INC.
PARK FEDERAL NO. 1
1980' FSL & 1980' FEL
SEC. 20, T-11-S, R-27-E
CHAVES COUNTY, NEW MEXICO

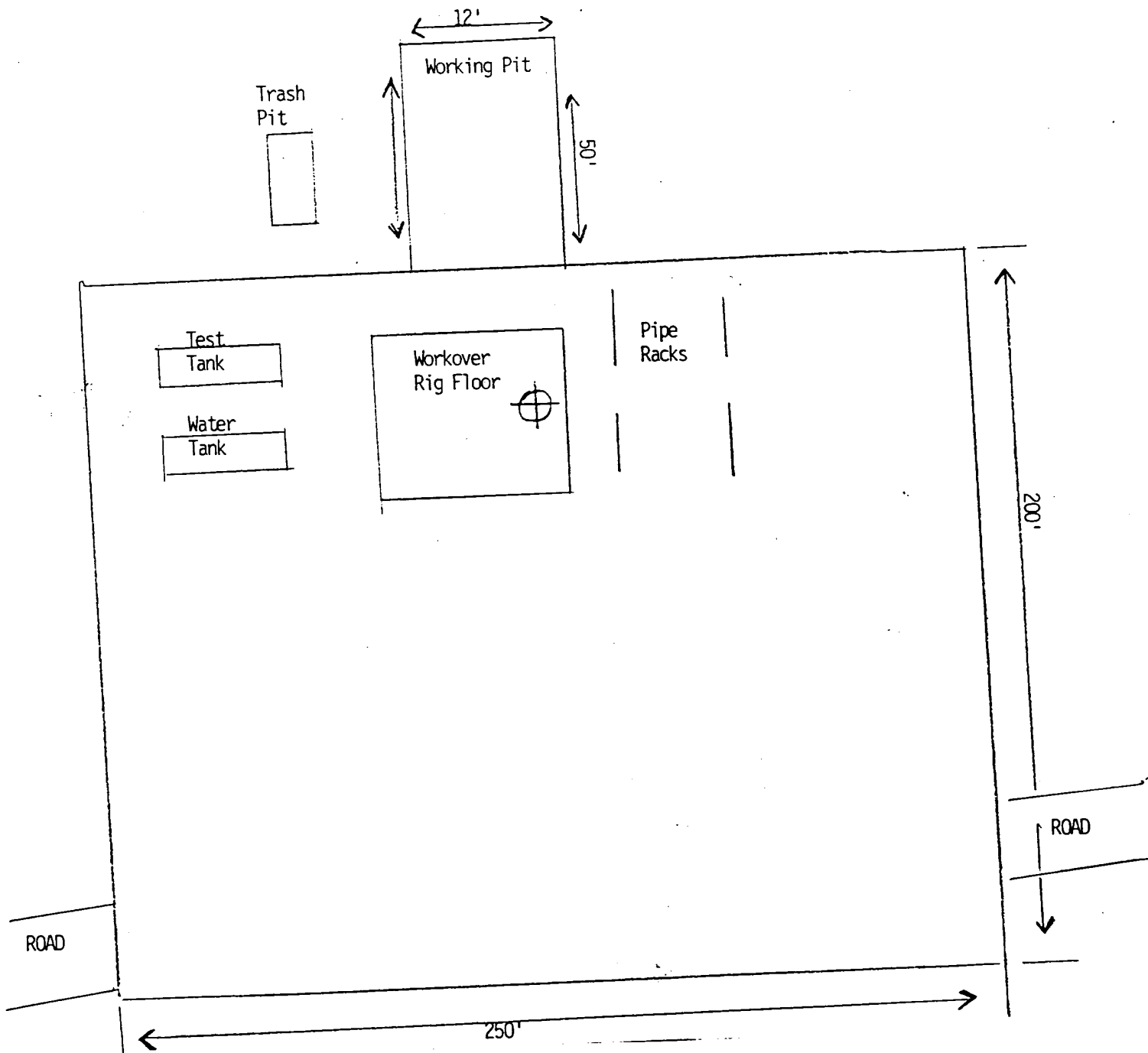


EXHIBIT "E"
WELLSITE LAYOUT
STEVENS & SONS, INC.
PARK FEDERAL NO. 1



NMAS
New Mexico Archaeological Services, Inc.

P. O. Box 1341
Carlsbad, New Mexico 88220
(505) 887-7646

RECEIVED

FEB 14 3 01 PM '90

BUREAU OF LAND MGT
ROSWELL RESOURCE
AREA

Reconnaissance
Excavation
Analysis
Explanation
Curation

19 November 1986

Mr. Harold Garrard
MARATHON OIL COMPANY
P.O. Box 552
Midland, Texas 79702

Dear Mr. Garrard:

Enclosed please find NMAS' Archaeological Clearance Report for MARATHON OIL COMPANY's proposed Park Federal Well No. 1 in Chaves County, New Mexico. No cultural resources were recorded during this survey; therefore, NMAS is sug-
gesting clearance for this project.

If you have any questions pertaining to this report, please call my office. Thank you for asking NMAS to do this survey.

Yours sincerely,

J. Loring Haskell
Dr. J. Loring Haskell
Principal Investigator

Enclosure

cc: Mr. Sam Ball, BLM, Roswell
Mr. Thomas W. Merlan, SHPO, Santa Fe

as

Archaeological Clearance Report

for

MARATHON OIL COMPANY

Park Federal Well No. 1

Prepared

By

Dr. J. Loring Haskell

Submitted

By

Dr. J. Loring Haskell
Principal Investigator
New Mexico Archaeological Services, Inc.
Carlsbad, New Mexico

19 November 1986

Permit No. 14-2920-86-C

Report Number: NMAS-1986-9-N

ABSTRACT

New Mexico Archaeological Services, Inc., representing MARATHON OIL COMPANY, Midland, undertook a Class III survey of Bureau of Land Management lands scheduled to be impacted by the construction of a drill location. Field work was conducted under cloudy conditions with light winds during mid-afternoon. The proposed location will measure 400 X 400 ft (actual area surveyed 4.44 acres). It is situated on an existing, graded ranch road. Total surveyed acreage 4.44 acres. It will be situated in Section 20, T11S, R27E, NMPM, Chaves County, New Mexico. No cultural properties were recorded during this survey; therefore, NMAS is suggesting clearance for MARATHON OIL COMPANY's proposed work.

Introduction

On 18 November 1986, New Mexico Archaeological Services, Inc., (NMAS), Carlsbad, undertook for MARATHON OIL COMPANY, Midland, an archaeological survey of federal lands administered by the Bureau of Land Management in Chaves County, New Mexico. The reconnoitered area will be impacted by the construction of a drill location. This project was advanced by Mr. Harold Garrard, MARATHON OIL COMPANY, and administered by Dr. J. Loring Haskell, Principal Investigator, NMAS, Inc. This survey was undertaken by Dr. Haskell. Field work was conducted under cloudy conditions with light winds during mid-afternoon. Ground visibility ranges between 80 and 85%. Field time one hour.

Survey Technique

For this investigation, MARATHON OIL COMPANY's proposed location was reconnoitered for evidence of man's past activities by walking it in a series of 25 ft wide, close interval (15° or less), zigzag transects. In addition, an added zone extending 20 ft on each side of the staked 400 X 400 ft location, and lying outside the bounds of the proposed work area was reconnoitered by a similar means. Methodologically, this procedure served to promote optimal conditions for the visual examination of the area to be impacted by construction-related activities.

Park Federal Well No. 1

Location

The proposed location will measure 400 X 400 ft (actual area surveyed 4.44 acres) on federal lands and will be situated

1980 ft from the south line and 1980 ft from the east line.

Section 20, T11S, R27E, NMPM, Chaves County, NM

Thus it will be situated in the:

NW¼SE¼, Section 20, T11S, R27E, NMPM, Chaves County, NM

The proposed location will be situated on an existing, graded ranch road.

Map Reference: USGS BOTTOMLESS LAKES QUADRANGLE, 7.5 Minute Series, 1950.

Excepting where crossed by the ranch road, the site of the location has not been impacted by mechanical means.

Terrain

MARATHON OIL COMPANY's proposed location will be situated on the west-facing shoulder of a long, undulating ridge system due east of the Pecos River. Locally, this system, reflecting the Karst character of the landform, is broken by a zone of general collapse to the west. Surficial deposits are largely dominated by the clay separate and hence are subject to puddling and scaling. Croute calcaire underlies the surficial deposits at shallow depths. A very light scree of caliche gravels, along with a lesser frequency of angular caliche cobbles, mantles the surface. Taxonomically, soil individuals fall within the Typic Calciorthid subgroup. Drainage is by ephemeral sheetwash with runoff being to the west into the zone of generalized, structural collapse. Nearest water supply is at the sinks lying approximately five miles to the west. Additionally, seasonal perching of water occurs in areal dolines and hence offers a semi-permanent supply. Elevation is approximately 3702 feet.

Floristics

Areal soils host a grassland floral community. Principal grasses are: Scleropogon brevifolius, Hilaria mutica, Tridens spp., Bouteloua spp., and Sporobolus flexuosus. Associated forbs include Gutierrezia sarothrae, locally omnipresent, along with Croton spp., Ephedra sp., Psilostrophe sp., Cirsium sp. and Physalia lobata. Yucca glauca, Larra tridentata and Condalia ericoides are present on a sporadic basis and increase toward the east. Most forbs and grasses are presently browned and desiccated.

Cultural Resources

Prefield 14 November 1986, Sam Ball, no archaeological sites.

No cultural properties were recorded during the course of this survey. Reasons cited for their absence include the extreme dearth of siliceous lithic sources, the openness of the landform, and the scanty supply of water. Land usage throughout prehistory, therefore, should have centered on hunting and hence actual utilization should have been brief and transitory at any one time. Expected cultural properties, should they occur, should be of the isolated variety and hence should occur on a random, non-patterned basis.

Recommendations

NMAS recommends clearance for MARATHON OIL COMPANY's proposed Park Federal Well No. 1 and suggests that work-related activities proceed in accordance with company plan (Fig. 1). Clearance, of course, is granted by the Bureau of Land Management. If cultural resources are encountered during construction, the

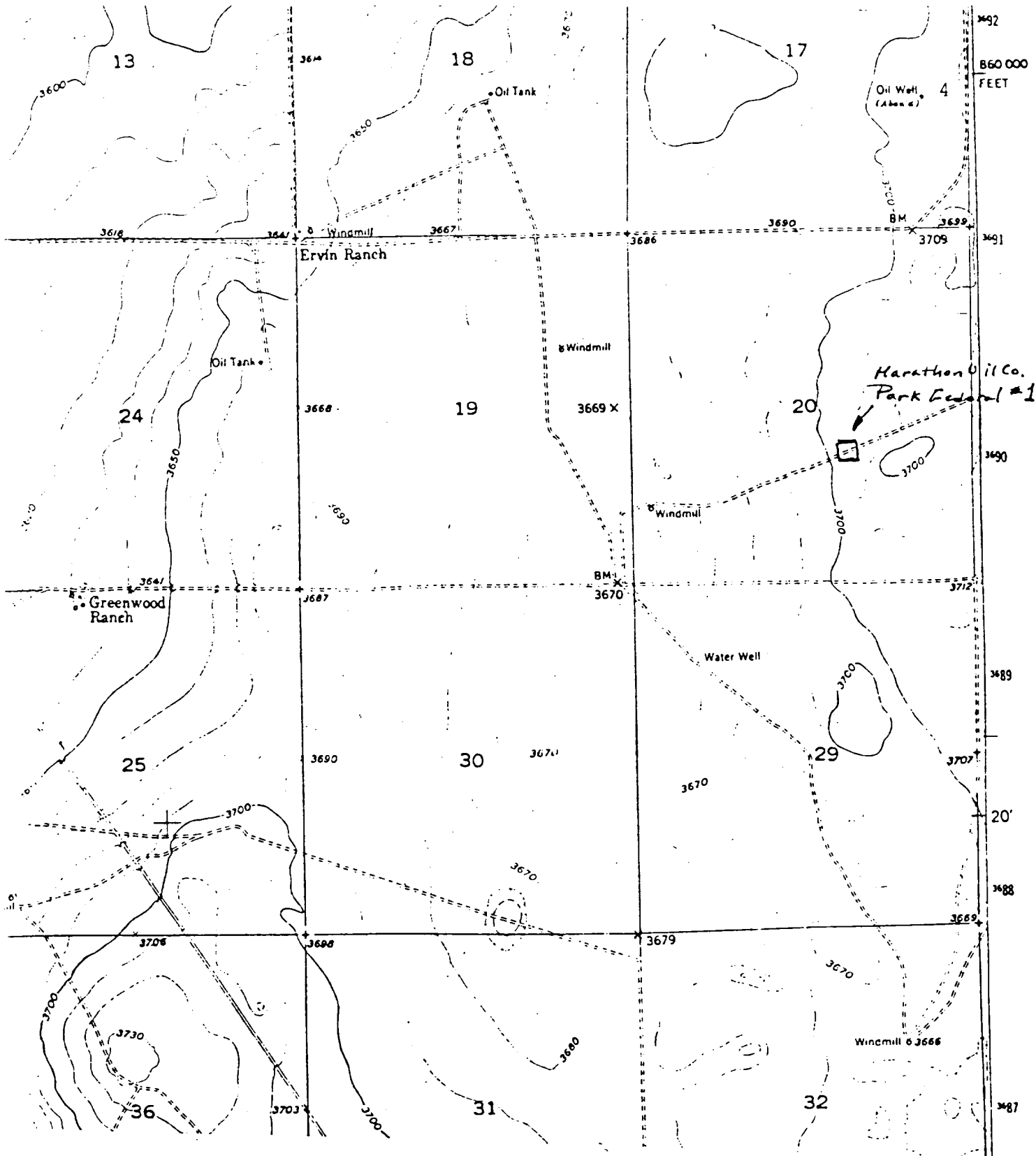


Fig. 1. USGS BOTTOMLAKES QUADRANGLE, 7.5 Minute Series, 1950, showing MARATHON OIL COMPANY's proposed Park Federal Well No. 1, 1980 FSL, 1980 FEL, Section 20, T11S, R27E, NMPM, Chaves County, New Mexico.

BLM and NMAS should be notified immediately.