

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. 0384177	
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. NAME OF OPERATOR Oil Development Company of Texas			7. UNIT AGREEMENT NAME CA 3W 658	
3. ADDRESS OF OPERATOR P. O. Box 12058, Amarillo, Texas 79101			8. FARM OR LEASE NAME Federal 27	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FWL & 1980' FNL Sec. 27-T9S-R37E At proposed prod. zone same			9. WELL NO. 2	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 12 mi. E of Crossroads			10. FIELD AND POOL, OR WILDCAT West Sawyer (San Andres)	
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. 27-T9S-R37E	
16. NO. OF ACRES IN LEASE 80			12. COUNTY OR PARISH 13. STATE Lea New Mexico	
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. 1320			20. ROTARY OR CABLE TOOLS Rotary	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3971.5 GR			22. APPROX. DATE WORK WILL START* 10-20-76	

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	420	Circulate
7-7/8"	5-1/2"	15.5#	5100	Circulate

1. Drill 12-1/4" surface hole. Run 420' \pm 8-5/8" 24# K-55 casing. Circulate cement. Install double-ram BOP and test to 500 psi prior to drilling out.
2. Drill 7-7/8" hole to TD and run 5-1/2" 15.5# K-55 casing and cement. *
3. Perforate with cased hole gun and stimulate with acid.

* Production string will be cemented in 2 stages, 250 sx at bottom and, with DV tool approximately 50' into Rustler Anhydrite, sufficient volume to circulate cement to surface.

Unless Drilling Operations have
Commenced, this drilling approval

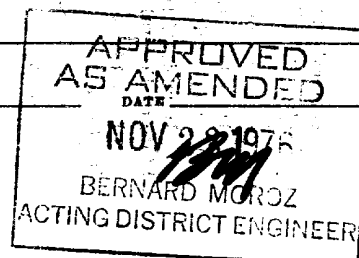
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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 D. J. Stogner Jr. TITLE Drilling Superintendent DATE September 14, 1976
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____
CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PL.

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

All distances must be from the outer boundaries of the Section.

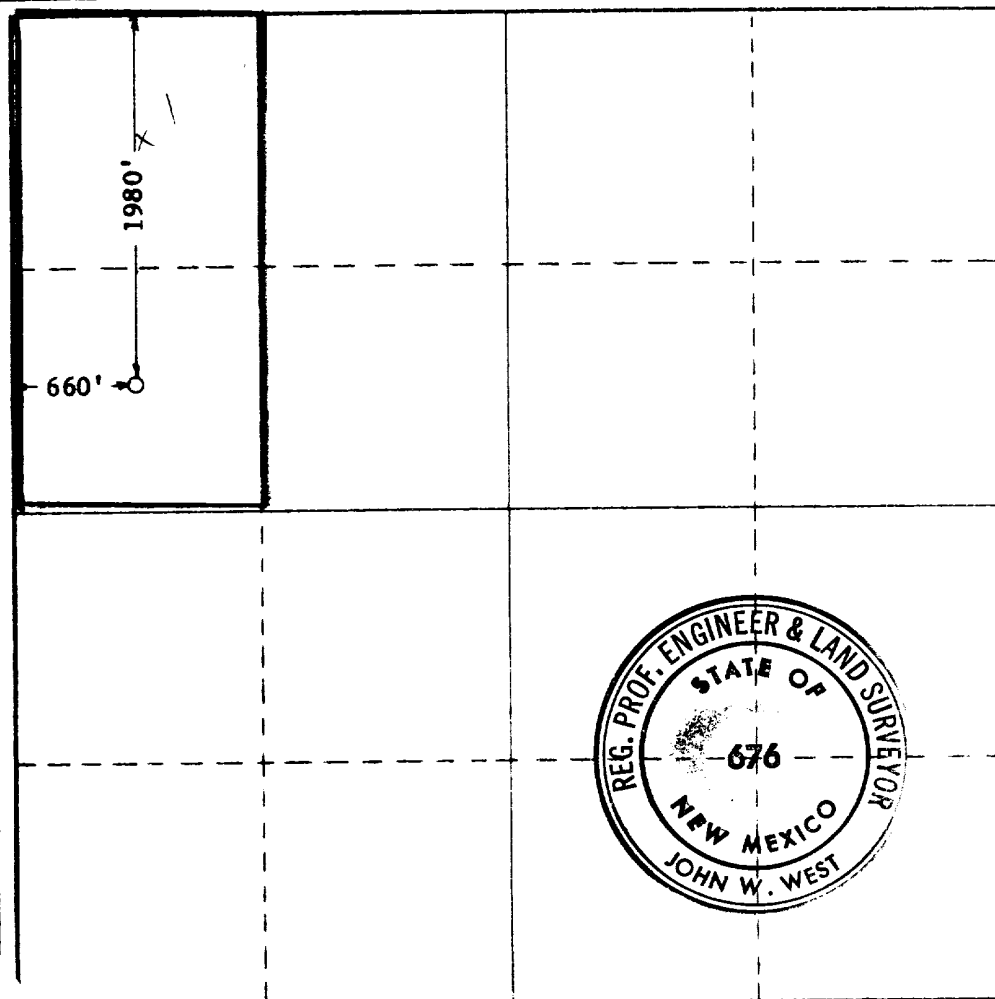
Operator OIL DEVELOPMENT CO. OF TEXAS			Lease FEDERAL 27		Well No. 2
Unit Letter E	Section 27	Township 9 SOUTH	Range 37 EAST	County LEA	
Actual Footage Location of Well: 1980 feet from the NORTH line and 660 feet from the WEST line					
Ground Level Elev. 3971.5	Producing Formation San Andres		Pool Slaughter	Dedicated Acreage: 00 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.

D. F. Stagny
Name

Position

Company

Date

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
9-4-1976

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No. **676**

30 600 100 1220 1650 1850 2310 2640 2000 1800 1000 800

Supplement to Form 9-331C

1. Surface Formation: Ogallala
2.

<u>Formation</u>	<u>Est. Top</u>
Rustler Anhydrite	2305
San Andres	4230
Slaughter Pay	4950
3. First oil/gas expected at 4950. Fresh water protected by surface casing.
4. See Form 9-331C.
5. 10" 900 Series double-ram BOP will be used. Rams will be checked each day. 10" and 6" 2000 psi wellhead equipment will be installed. See attachment.
6. Circulating system:

0 - 420	Spud Mud
420 -4900	Native mud
	8.8-10.4 ppg
4900 - TD	Saltwater gel
	chemical 10-10.4 ppg
7. Auxiliary equipment includes:
 1. Double ram BOP.
 2. Stab in Kill valve.
 3. Kill manifold w/choke.
8. Anticipate 60' core, no tests. Logs run will be GR/SNP & SP/LL.
9. No abnormal pressures, temperatures, or H₂S anticipated.
10. Expected duration of 20 days.

Multipoint Requirements

1. Existing roads
 - A. See attached form C-102
 - B. See Map I. From Crossroads, New Mexico, go 12 miles east on N.M. 508. Turn south off highway 1 mile, 2-3/4 miles east. At this point, location is 3/4 mile north on lease road.
 - C. Map II indicates all existing and planned roads within a 1 mile radius.
2. Planned access road
 - A. Width: 12' to 20' at turnout
 - B. Maximum grade: 2%
 - C. Turnout: One turnout, 750' north of wellsite off of existing lease road.
 - D. Drainage design: There will be a 6" drop on either side of the center line.
 - E. Surfacing material: Road will be surfaced with 4" of caliche.
 - F. Cattleguard: One to be installed in fence line 725' north of wellsite.
3. Location of existing wells

See attached Map II, indicating producing, disposal and applied for wells.
4. Location of existing/proposed facilities
 - A. See attached Map III showing all flowlines, water lines, gas lines and tank batteries.
 - B. The proposed flow line will run from the Federal 2-27 to the Federal 1-27 tank battery. It will be a buried 2" steel line, running alongside the lease road.
 - C. No unnecessary areas will be disturbed.
5.
 - A. Location of water supply: Sec. 32-T9S-R37E; owner Mr. Mike Wharton.
 - B. Water will be hauled to location by transport.
6.
 - A. Caliche will be obtained from Mr. Wilson Bilbrey. The pit is located in Section 27-T9S-R37E.

7. Methods of handling waste disposal

- A. Drill cutting and fluids, including any produced water, will be contained in the reserve pit. Pits will be filled and leveled after fluids have evaporated. There will be a latrine on location for sewage. Garbage and other waste will be contained in a pit and buried upon completion of the well.

8. None required.

9. Well site layout

See figure 2 for diagram. The pits will not be lined.

10. Plans for restoration

- A. Upon completion of the well, all materials not needed for production will be removed. The pits will be filled and leveled. Prior to filling, the pits will be fenced. Every effort will be made to return the area to as near its original state as possible.

11. Other information

- (1) Topography is slightly rolling and shifting sands.
- (2) Vegetation is sparse and consists of mesquite, sandsage, and native range grass.
- (3) Rabbits, rodents, and reptiles are typical of the wildlife.
- (4) There are no ponds or streams in the area.
- (5) There are no residences within a three mile radius.
- (6) There are no archeological, historical, or cultural sites in the area. The land is used for grazing. Surface rights are owned by Mr. Wilson E. Bilbr of Crossroads, New Mexico.

12. Oil Development Company of Texas representatives:

Otis Solley - Production Foreman
Seagraves, Texas
Office 806-546-2240
Home 806-546-2480

D. T. Stogner, Jr. - Drilling Superintendent
P. O. Box 12058
Amarillo, Texas 79101
Office 806-376-5741
Home 806-352-2488

13. Certification:

I hereby certify that I, or persons employed by Oil Development Company of Texas, 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 Oil Development Company of Texas and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

October 13, 1976

Date


C. Brad Crouch, Drilling Engineer

Oil Development Company of Texas
Federal 27 No. 2
Lea County, New Mexico

Schematic of Double Pipe Rams

Figure 1

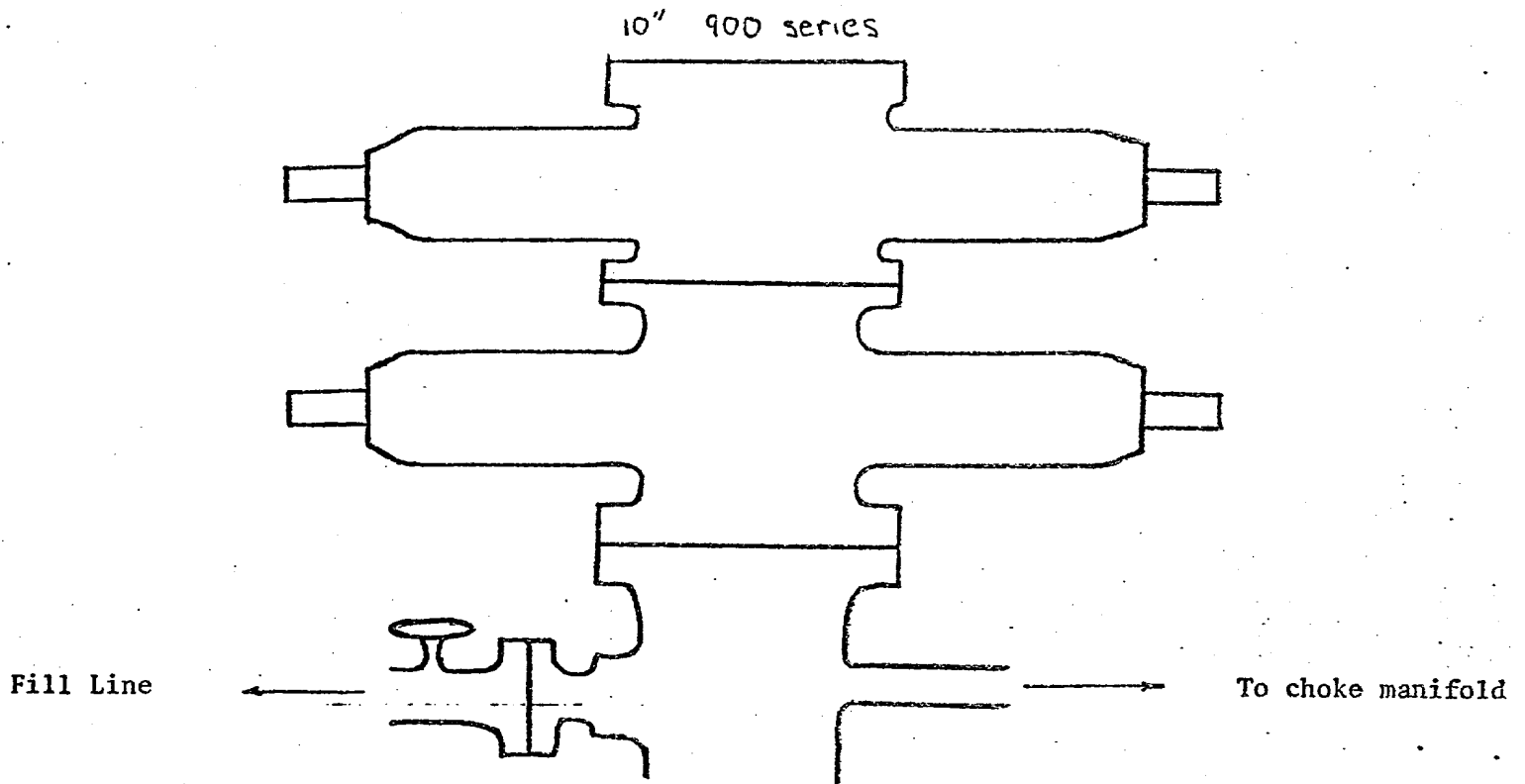
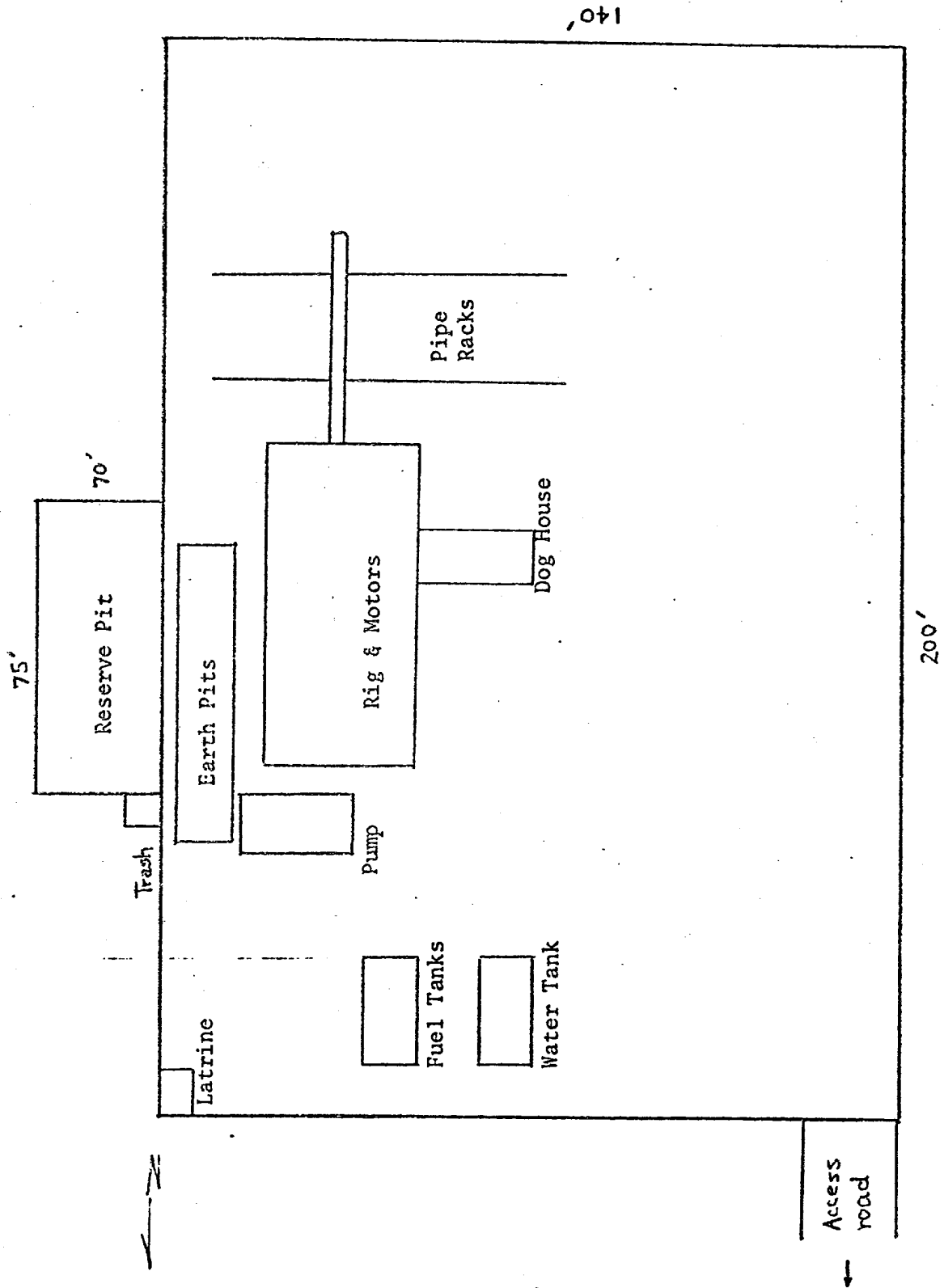
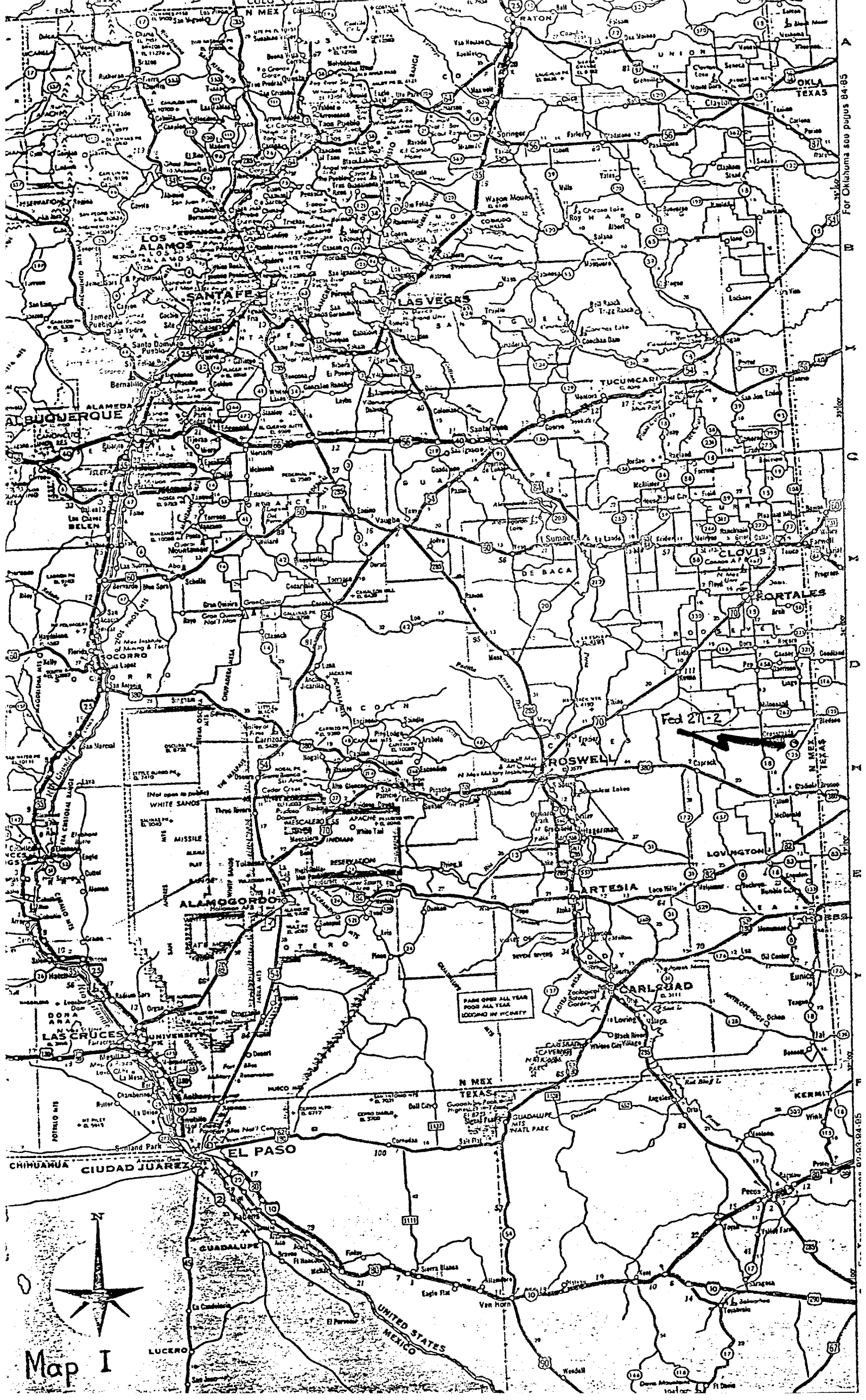


Figure 2

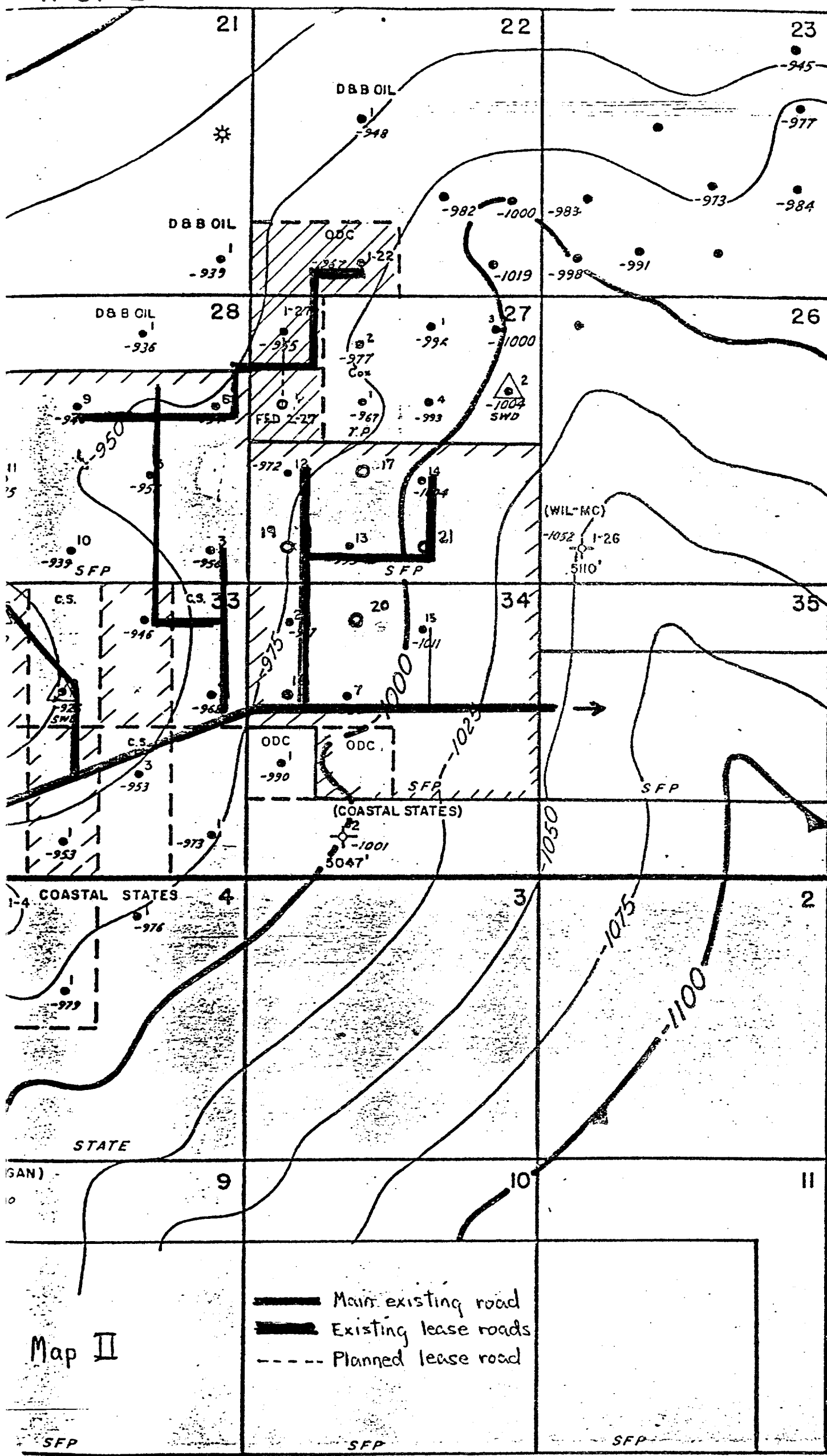


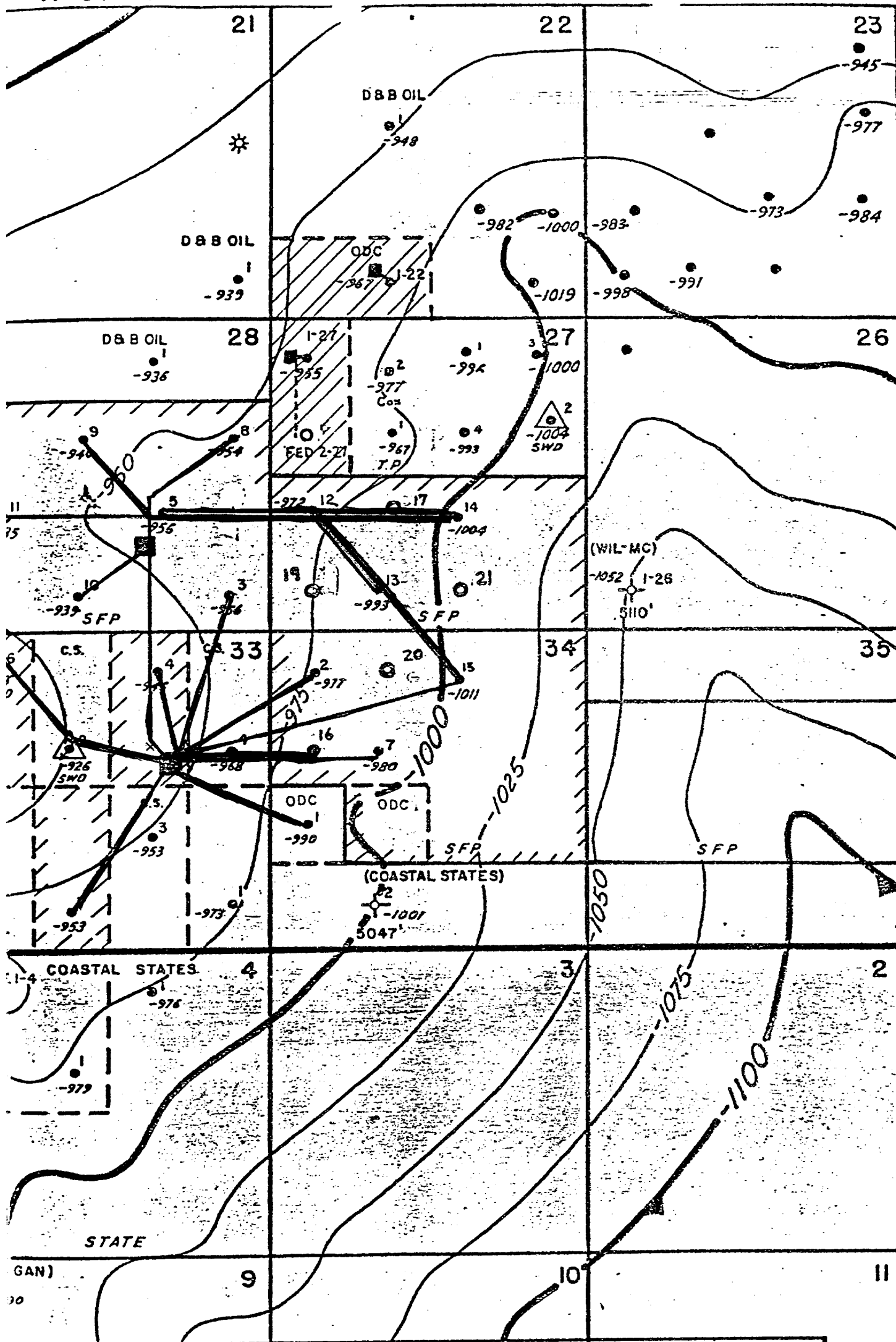


Map I

For Oklahoma see pages 84-85

07-02-84-85





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MAP III

- Existing tank battery
- Gas line
- Flow line
- Water line
- Planned flow line

SFP

SFP

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OIL CO. OF AMERICA
1976