

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 ☐		5. LEASE DESIGNATION AND SERIAL NO. LC-064427
b. TYPE OF WELL OIL WELL ☒ GAS WELL ☐ OTHER ☐ SINGLE ZONE ☐ MULTIPLE ZONE ☒		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
2. NAME OF OPERATOR SONIO PETROLEUM COMPANY		7. UNIT AGREEMENT NAME -
3. ADDRESS OF OPERATOR P. O. Box 3000, Midland, Texas 79702		8. FARM OR LEASE NAME Elliott B12-2
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 2310' FWL, 660' FWL, Sec. 12, T-22-S, R-37-E 100M At proposed prod. zone Wentz Granite Wash		9. WELL NO. #3
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 3 1/2 miles south of Denico, New Mexico		10. FIELD AND POOL, OR WILDCAT Wentz Granite Wash
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 660'	16. NO. OF ACRES IN LEASE 40	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Unit 12, Sec. 12, T-22-S R-37-E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 7650'	19. PROPOSED DEPTH 7650'	12. COUNTY OR PARISH Lea
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 3343' GR		13. STATE New Mexico
22. APPROX. DATE WORK WILL START* January 10, 1978		

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

SEE ATTACHED PROPOSED PROGRAM

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

(This space for Federal or State office use)

TITLE

District Superintendent

DATE

January 6, 1978

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED

JAN 9 1978

O.O.L.

ACTING DISTRICT ENGINEER

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

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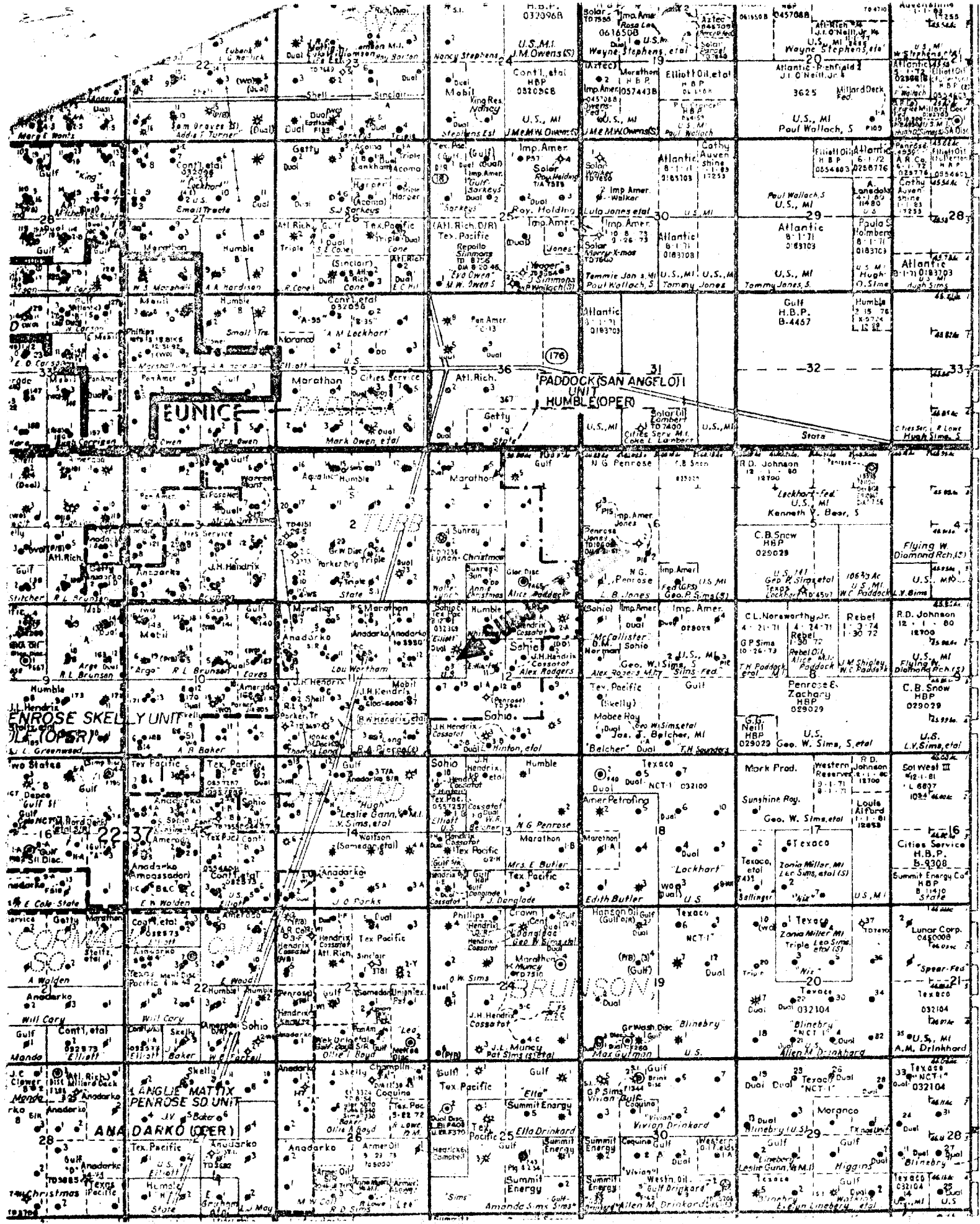
OIL CONSERVATION COMM.
HOUSTON, TEX.

LOCATIONS		LOCATION
DEPTH		2310' FNL 660' FWL Sec 12, T22S, R37E, Lea County, N.M.
PRESENT PROPOSED		PROPOSED JOB
		Deepen to new zone in Granite Wash.
		PROCEDURE
		REMARKS
		ELEVATION 3343' G.L.
		8-5/8" CSG. 23#/FT. SET @ 1281' cemented w/430 sxs.
		1. Squeeze Drinkard and Granite Wash perforations with Magcobar "CEASTOP" (or equivalent). Use 25 bbl on each set of perfs.
		2. Pull short string, then long string w/Model K Packer.
		3. Drill out Model D Packer and to 7650 8000' with 2% KCL polybrine viscosified mud system using Magcobar "CEASCAL" (or equivalent) for fluid loss control as required.
		4. Drill packer with 24 3/4" drill collars, 2-7/8" drill pipe, and a permanent packer mill with a "packer plucker".
		5. Drill float collar, float joint, and guide shoe with 4-3/4" mill tooth bit.
		6. Drill to 7650 8000' with 4-3/4" button bits. (Dresser Security M88F or equivalent)
		7. If drilling breaks occur, run a DST from +7300' to T.D.
		8. Run Schlumberger CNL-FDC and DLL, all with GR, Record F curve.
		9. The design of the Granite Wash treatment will be made after evaluation of data. An acid job and a temperature tracer survey are anticipated.
		10. Set RBP at 7300' + and wash 7123 - 7260' perfs w/500 gal. 15% HCL acid containing a surfactant, inhibitor, silt suspending agent, and iron sequestering agent.
		11. Reset RBP @ 6900' + and wash 6254 - 6834' perfs w/500 gal 15% HCL acid as above. Displace into formation.
		12. Set Baker Model D Packer @ 7050'.
		13. Run Baker Model K Packer w/selective head on long string to 6200'
		14. Run short string.
		15. Swab and test.
		APPROVAL

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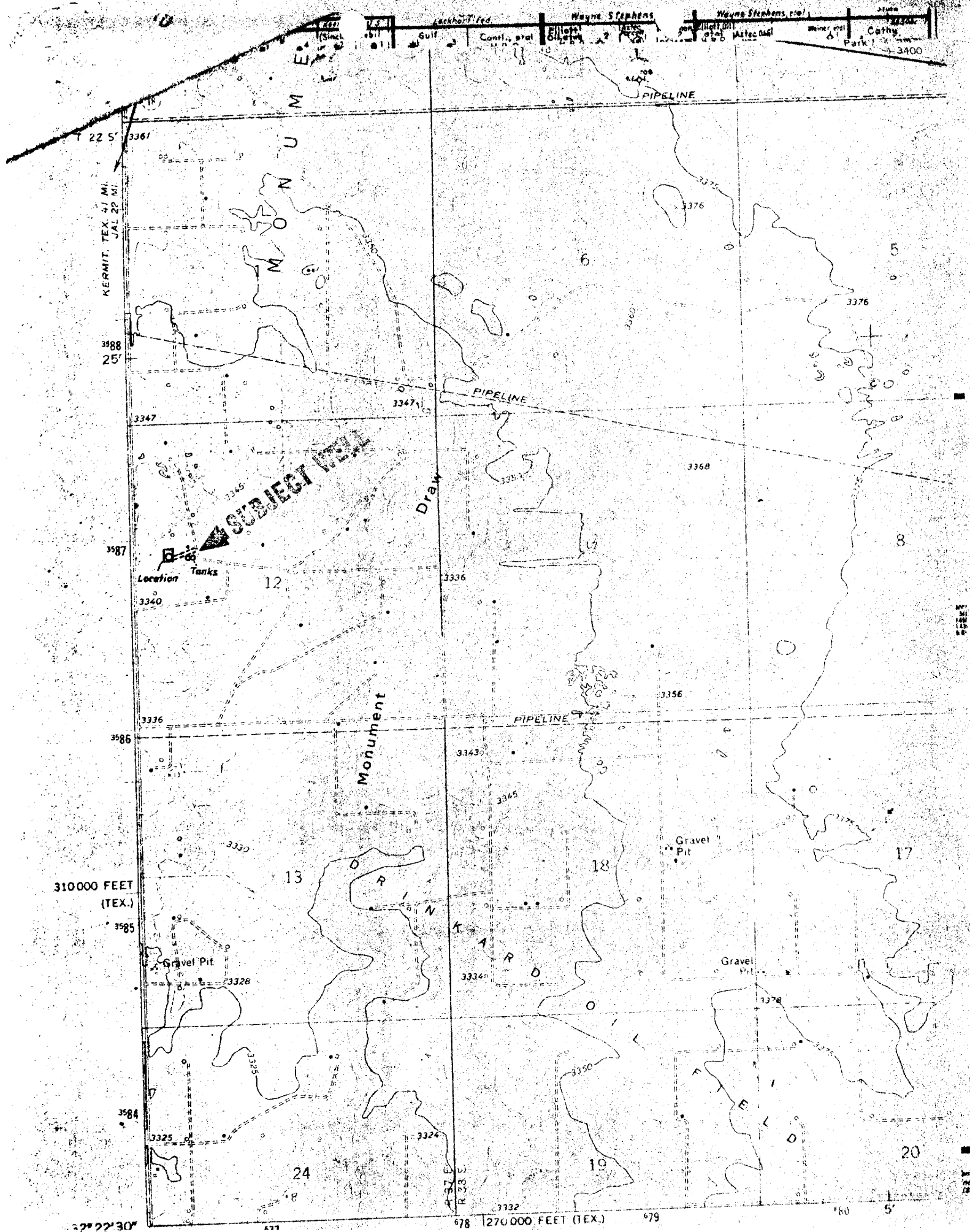
OIL CONSERVATION COMM.
ALBUQUERQUE, N. M.



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OIL CONSERVATION COMM.
DURHAM, N. C.



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CIL CONSERVATION COMM.
HOBBS, N. M.