

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY(Other instructions on
reverse side)copy to SF
30-015-22003

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. Federal NM0149953	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
2. GEORGE A. CHASE		7. UNIT AGREEMENT NAME	
3. ADDRESS OF APPLICANT ARTESIA, NEW MEXICO 88210		8. JERFERS LEASE NAME 104-1-1-1-1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At 990 PBL 1650 PUL S 27 T16S R31E 9905-16500 At proposed prod. zone		9. WELL NO. 28	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 6 Miles Northeast of Loco Hills		10. SQUARE LAKE	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 330'		11. Sec. 27, T16S, R31E	
16. NO. OF ACRES IN LEASE 40		12. COUNTY OR PARISH EDDY	
17. NO. OF ACRES ASSIGNED TO THIS WELL 40		13. STATE NEW MEXICO	
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 330'		14. ROTARY	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 4045 GR		22. APPROX. DATE WORK WILL START* DECEMBER, 1976	

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17"	13 3/8"	48#	40'	CONCRETE 2 YARDS
12 1/4"	8 5/8"	28#	400'	100 SACKS
7 7/8"	5 1/2"	17#	3750'	100 SACKS

Intend to drill surface with spud mud, and use native mud to drill to 3550'.
Will mud up with low water loss mud to drill thru premier and Lovington zones to T.D.

The rig will be equipped with hydraulic B O P and choke manifold. The safety equipment will be tested prior to drilling from under the 8 5/8" casing.
Will only run 5 1/2" production string if justified.

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U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

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 George A. Chase OPERATOR 12/3/76
TITLE _____ DATE _____
(This space for Federal or State office use)

PERMIT NO. _____

APPROVAL DATE _____

CONDITIONS OF APPROVAL, IF ANY:

THIS APPROVAL IS RESCINDED IF OPERATIONS
ARE NOT COMPLETED WITHIN 3 MONTHS.
EXPIRES MAR 22 1977

DATE _____

DEC 24 1976
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.

U.S. GOVERNMENT PRINTING OFFICE

839-171

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N MEXICO OIL CONSERVATION COMMISS
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances must be from the outer boundaries of the Section

Operator GEORGE A. CHASE		Lease Jeffers		Well No. 2	
Section N	Section 27	Township 16 South	Range 31 East	County Eddy	
Actual Surface Location of Well: 990 feet from the south line and 1650 feet from the west line					
Ground Level Elev. 4045	Producing Formation GRAYBURG SAN ANDERS	Pool SQUARE LAKE		Dedicated Acreage 40	

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.

Note: The elev. of this Well No. 2 is 14.7 feet higher than a Well located 660 feet from the south line and 660 feet from the west line of Sec. 27, T16S, R31E.

CERTIFICATION

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

George A. Chase
Name
GEORGE A. CHASE

Position
OPERATOR

Company
GEORGE A. CHASE

Date
12/3/76

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.

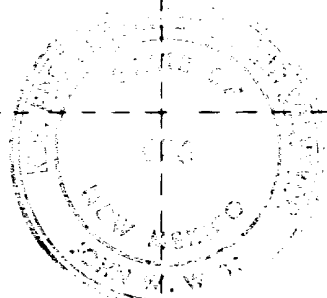
Date Surveyed

Nov. 29, 1976

Registered Professional Engineer and/or Land Surveyor

John W. West
Certificate No.

676



GEORGE A. CHASE

P. O. BOX 637 • ☎ 746-2640
ARTESIA, NEW MEXICO 88210

MULTI-POINT SURFACE USE AND OPERATIONS PLAN
GEORGE A. CHASE
JEFFERS FEDERAL #2W
990' FSL, 1630' FWL, Sec. 27, T16S, R31E
KDD: COUNTY, NEW MEXICO
NEW MEXICO 0149953

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U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

This plan is submitted with the application to drill the above described well. The purpose of the plan is to describe the location of the proposed well, the proposed construction and operations plan, the surface disturbance and the plan to rehabilitate the surface after completion so that an environmental appraisal can be made of the effect of the operations.

1. EXISTING ROADS:

A. Exhibit "A" is a well and structure plat showing the new well location approximately 7 miles northeast of Loco Hills and 5 miles northwest of Maljamar. Two miles east of Loco Hills on highway 82 turn north on paved road, follow this road about 4 miles to end of pavement, then east on dirt road about 4 miles to a field road leading to the location as shown on exhibit "A".

B. Exhibit "B" is a plat showing all existing roads within a one mile radius of the wellsite and the planned access road.

C. The existing roads are satisfactory and it is not necessary to make any repairs.

2. PLANNED ACCESS ROADS:

The new road will be 12' wide and will extend in a northwesterly direction from existing pad for the Jeffers Federal No. 1 approximately 300' to the edge of the pad for replacement well--Jeffers Federal #2W. The new road is flagged and color coded on exhibit "B". The flags may be seen and followed from beginning at Jeffers Federal #1 to the proposed location. Due to the short distance of this new road there are no turnouts. There are no culverts necessary and no excess cuts or fills. There are no fences therefore no cattle guards are needed.

3. LOCATIONS OF EXISTING WELLS:

Existing wells within one mile are shown on exhibit "B".

4. LOCATION OF EXISTING AND PROPOSED FACILITIES:

A. Location of the existing tank battery and flowline on the Trust K27 and Jeffers Federal #1 are shown on exhibit "C". The lines are not buried and there are no water disposal lines or injection lines on these locations.

B. If the proposed well (Jeffers Federal #2W) is completed as a producer the location of the new flow line to the Jeffers Federal #1 tank battery is shown on exhibit "C". The new flow line will be staked and flagged as shown on exhibit "C".

5. WATER SUPPLY

Water will be hauled by trucks over the existing and new road.

6. SOURCE OF CONSTRUCTION MATERIALS

Caliche for the location pad and new road will be obtained from the existing pit at the Jeffers Federal #1 (SE1/4 SW 1/4 Sec. 27). The pit is shown on exhibits "B" and "C".

7. METHODS OF HANDLING WASTE DISPOSAL

A. Drill cuttings will flow to the pit.

GEORGE A. CHASE

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ARTESIA, NEW MEXICO - 88210

Jeffers Federal # 2N
Operations Plan

PAGE 2

B. Drilling fluids will evaporate in the pits leaving dry mud and cuttings.
C. Any water produced from the well will flow to the pits for evaporation.
All oil produced during testing will be stored in the tanks at the Jeffers Federal # 1 for sale.

D. Current laws and regulations pertaining to the disposal of human waste will be complied with.

E. Trash, garbage and waste paper will be placed in barrels and hauled to an approved sanitary landfill.

F. All trash and debris will be buried or removed within 30 days after completion as a producer or plugged or abandoned as a dry hole.

8. ANCILLARY FACILITIES:

None required

9. WELL SITE LAYOUT:

A. Exhibit "D" shows the relative location and dimensions of the well pad, and mud pits, reserve pits, trash pit if any, and major rig components.

B. Only minor leveling will be required at the well site. No significant cuts and fills will be required.

C. The reserve pit will be plastic lined.

D. The pad and pit area has been staked and flagged.

10. PLANS FOR RESTORATION OF SURFACE:

A. After completion of operations all equipment and material not needed for production will be removed. Pits will be cut and filled and location cleaned of all trash and junk.

B. Unguarded pits containing fluids will be fenced until filled.

C. After abandonment of the well, the surface will be restored to the satisfaction of the Federal Government. The pit area, well pad and unneeded access roads will be ripped to promote re-vegetation. All work shall be completed within 90 days.

11. OTHER INFORMATION:

A. Topography-- Land surface is undulating with sand dunes. It slopes to the southwest at about 100' to the mile away from the caprock. The elevation at the well is about 4045'.

B. Shale is red, sandy clay with scattered sand dunes.

C. Flora and Fauna---vegetation is scrub oak, mesquite, and perennial native grasses. Wildlife consists of rabbits, rodents, coyotes, badgers, reptiles, doves, quail and occasional antelope.

D. Ponds and streams---There are no lakes or streams in this area.

E. Residences or other structures--There are no residences or other structures or windmills in the immediate vicinity of the proposed location.

F. Land use-- Grazing and seasonal hunting.

G. Surface ownership--The well site and proposed access road is on Federal Land.

12. OPERATORS'S REPRESENTATIVE:

OPERATOR AND OWNERS IS:

GEORGE A. CHASE

P O BOX 637 Telephone 746-2640

ARTESIA, NEW MEXICO 88210

The operator-owner will be responsible for compliance with the approved surface plan and operation.

GEORGE A. CHASE

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ARTESIA, NEW MEXICO 88210

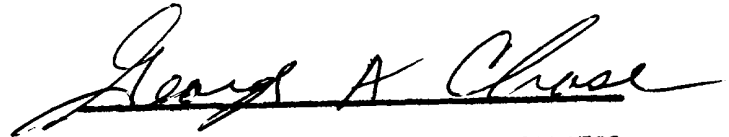
Jeffers Federal # 2N
Operations Plan Page 3

13. CERTIFICATION:

I hereby certify that I have inspected the proposed drill site and access road, that I am familiar with the conditions that 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 in conformity with this plan and the terms and conditions under which it is approved.

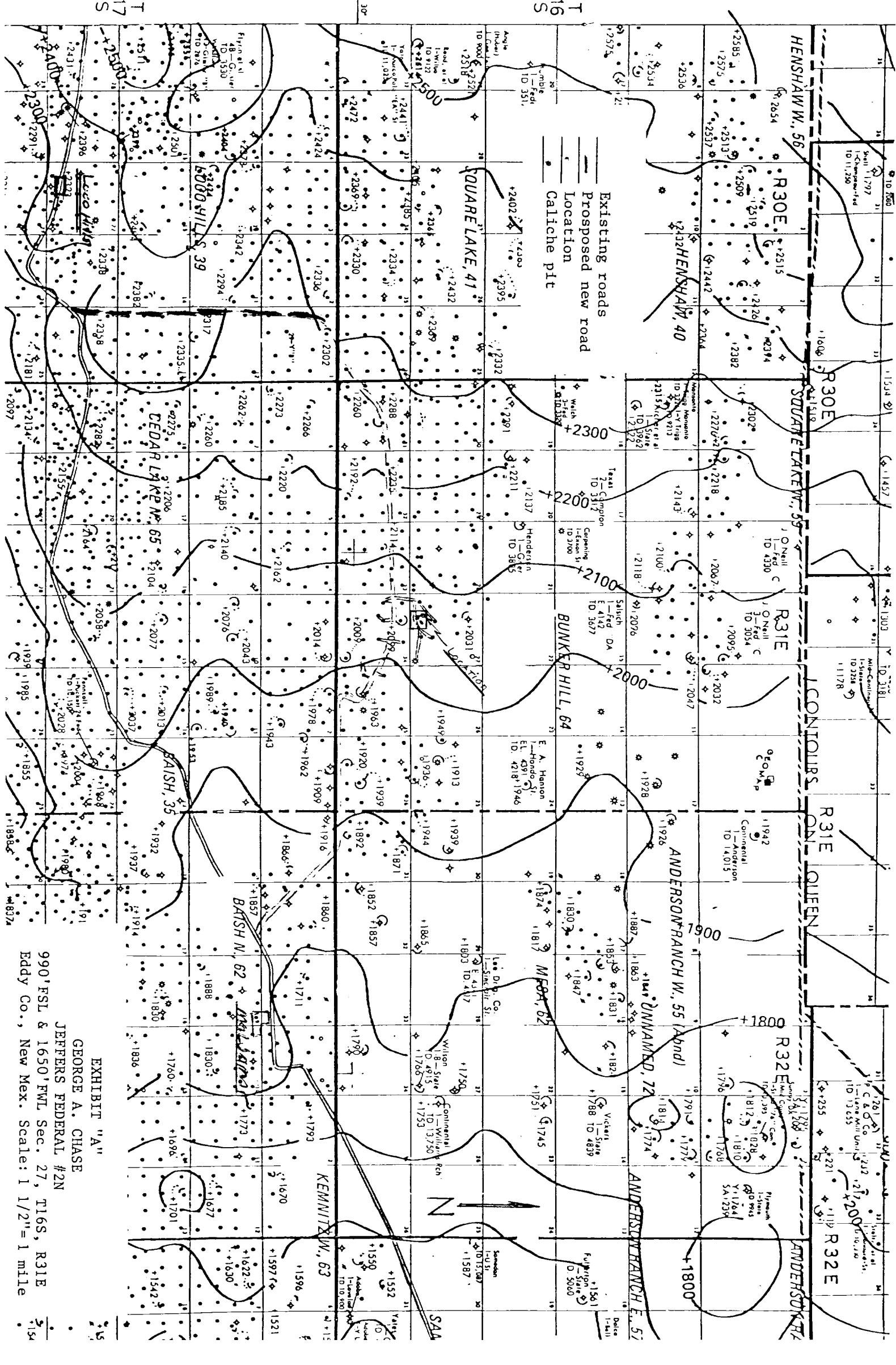
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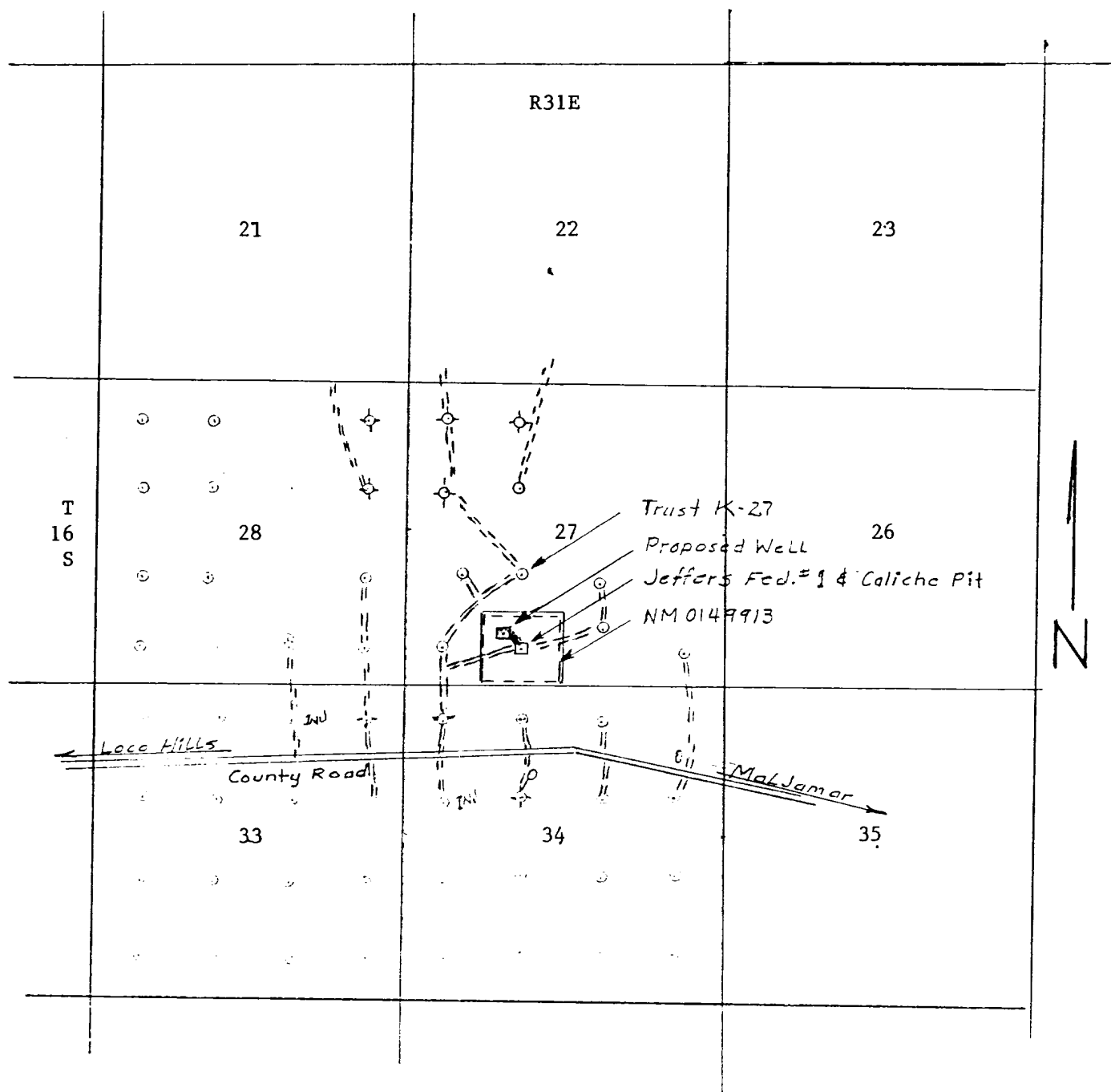
DATED



GEORGE A. CHASE

OWNER-OPERATOR





- Paved Highway
- Existing access roads
- - - Proposed new road 300'
- Drillsite location

EXHIBIT "B"
 GEORGE A. CHASE
 JEFFERS FEDERAL #2N
 990' FSL & 1650' FWL Sec. 27, T16S, R31E
 Eddy Co., New Mexico Scale: 1" = 1 mile

T16S, R31E
SW1/4 Section 27

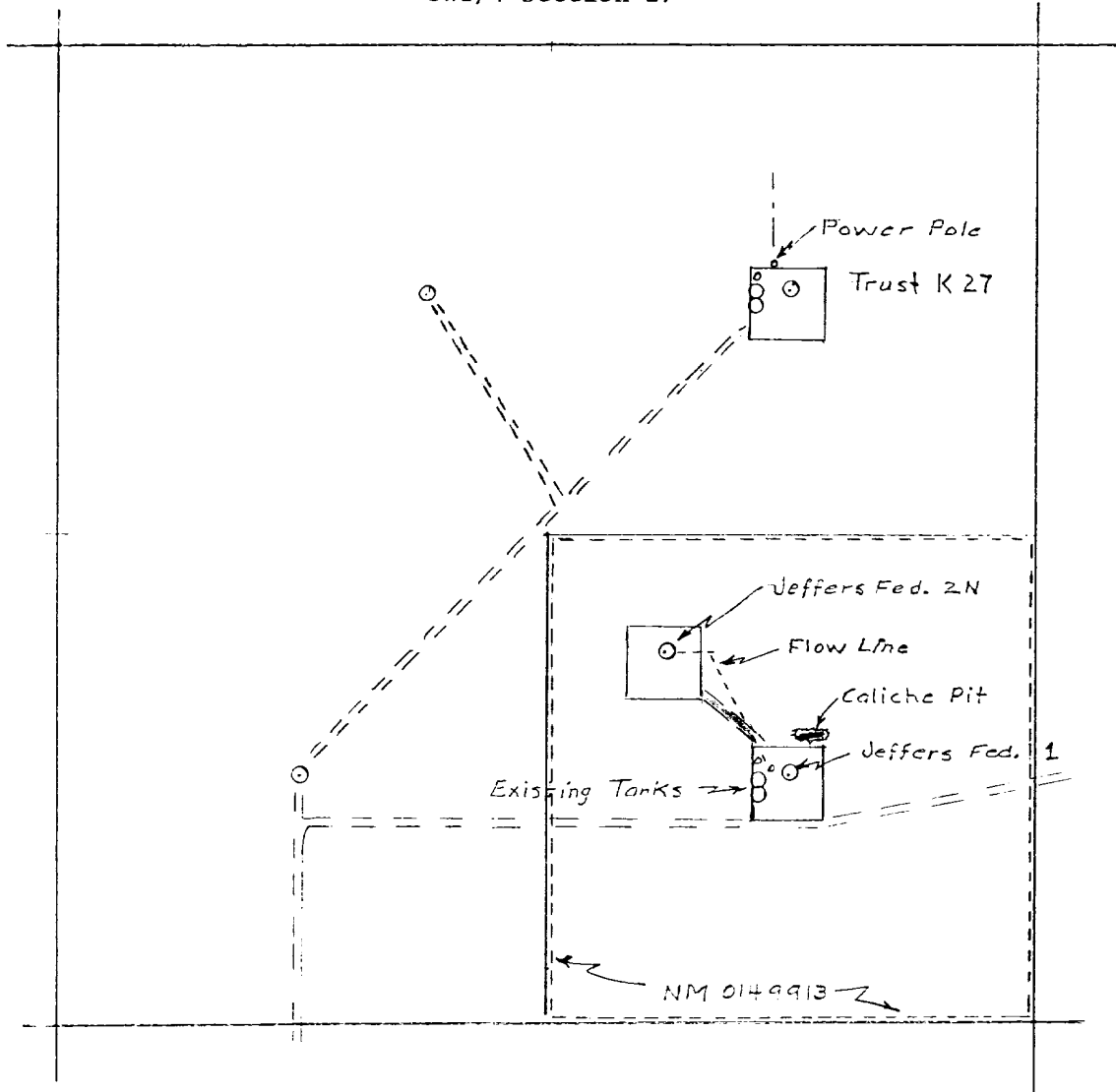


EXHIBIT "C"
GEORGE A. CHASE
JEFFERS FEDERAL #2N
990' FSL & 1650' FWL Sec. 27, T16S, R31E
Eddy Co., New Mex. Scale: 1" = 1000 ft.

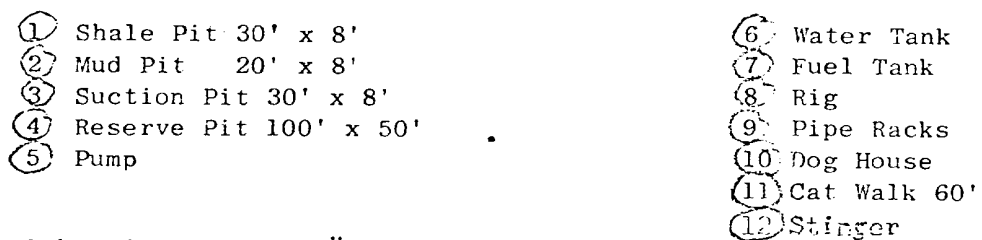


EXHIBIT "D"
Pit and Rig Layout
GEORGE A. CHASE