Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

30-039-22582

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: Contract #110

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Jicarilla

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [X] OTHER — SINGLE ZONE [X] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Jicarilla A

2. NAME OF OPERATOR: Tenneco Oil Company

9. WELL NO.: #3E

3. ADDRESS OF OPERATOR: P.O. Box 3249, Englewood, Colorado 80155

10. FIELD AND POOL, OR WILDCAT: Basin Dakota

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1550 FSL, 1590 FEL
At proposed prod. zone: same as above

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 19, T26N, R5W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approximately 23 miles NW of Lindrith.

12. COUNTY OR PARISH: Rio Arriba | 13. STATE: N.M.

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
1050'	2558.36	E/320
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
	±7595	Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6706'

22. APPROX. DATE WORK WILL START*: February 1981

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8" new	36#	±300	Circulate to surface
7/78"	4 1/4" new	11.6#, 10.5#	±7595	Cement in two stages

Administrative

See attached.

The gas is dedicated.

RECEIVED
JAN 9 1981
OIL CON. COM.
DIST. 3

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 R. A. Mishler R. A. Mishler TITLE Sr. Production Analyst DATE December 10, 1980

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED AS AMENDED

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

JAN 07 1981
for Bruce Warnsley
JAMES F. SIMS
DISTRICT ENGINEER

*See Instructions On Reverse Side

NMOCC

OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-78

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

Operator	Lease	Well No.
TENNECO OIL COMPANY	JICARILLA "A"	3E

Unit Letter	Section	Township	Range	County
J	19	26N	5W	Rio Arriba

Actual Footage Location of Well:
1550 feet from the South line and 1590 feet from the East line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
6706	Dakota	Basin Dakota	320 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

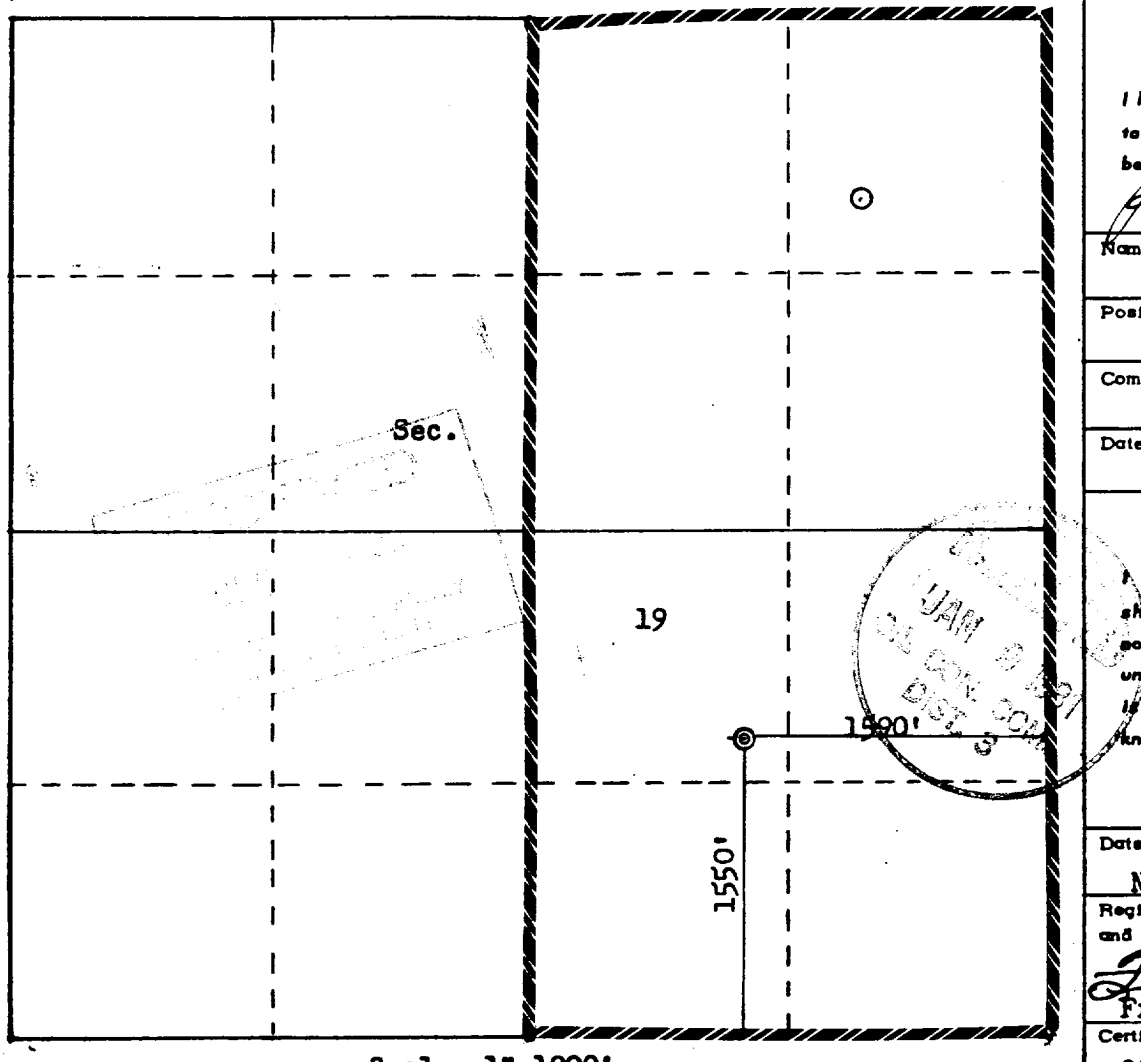
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.



Scale: 1"=1000'

CERTIFICATION

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

R. A. Mishler

Name: R. A. Mishler

Position: Sr. Production Analyst

Company: Tenneco Oil Company

Date: December 10, 1980

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 3, 1980

Registered Professional Engineer and Land Surveyor

Fred B. Kerr Jr.

Certificate No. 3950

FORM 24-11

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION
PENTHOUSE, 720 SOUTH COLORADO BOULEVARD
DENVER, COLORADO 80222

DRILLING PROCEDURE

DATE: September 23, 1980

LEASE: Jicarilla

WELL NO.: A 3E

LOCATION: 1550 FSL, 1590 FEL
Section 19, T26N, R5W
Rio Arriba County, New Mexico

FIELD: Basin Dakota

ELEVATION: 6706'

TOTAL DEPTH: 7595'

PROJECTED HORIZON: Dakota

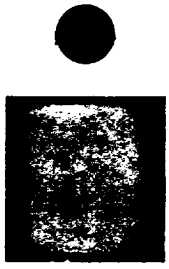
SUBMITTED BY: Bruce Ladd

DATE: September 23, 1980

APPROVED BY: D. J. Karlach

DATE: November 12, 1980

CC: Administration
DSB Well File
Field File



Ojo

Fruitland

Pictured Cliffs

Lewis

Cliff House

Menefee

Point Lookout

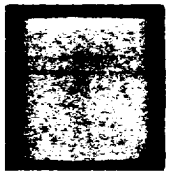
Mancos

Gallup

Greenhorn

Dakota

T.D.



DRILLING, CASING AND CEMENTING PROGRAM

1. MIRURT

2. Drill a 12¼" Hole to ± 300' with Gel-Water Mud.

3. RU and run 9 5/8", 36#, K-55, ST&C casing to TD. Cement with Class B + 2% $CaCl_2$ in sufficient quantity to circulate cement to surface. WOC 12 hours.

4. Screw on 9 5/8 8rd x 11-3000 casing head, NU BOPS. Pressure test casing, lines and blinds to 1000 PSI for 30 minutes. GIH with drill pipe and test pipe rams to 1000 PSI for 30 minutes. Record all tests on IADC Report.

5. Drill out using a 7 7/8" Bit to T.D. Log open hole as directed by G.E. Department.

6. Run 4½" 11.6 and 10.50# K-55 ST&C as designed.

7. Cement in two stages with sufficient volume to circulate cement to surface. Locate DV tool + 250' above Cliffhouse to prevent lost returns in Mesa Verde. Lead in first stage with light cement (pozmix, Halliburton lite, etc.). Tail in with sufficient volume of Class "B" cement to cover the Dakota. Circulate a minimum of four hours between stages. Lead in second stage with light cement.

8. MORT

9. Install tree and fence reserve pit.

10. If non-productive, P & A as required by the USGS.

Casing Program

Interval	Length	Size	Weight	Grade	Coupling
0-300	300	9 5/8	36#	K-55	STC
7595-7000	595	4 1/2	11.6#	K-55	STC
0-7000	7000	4 1/2	10.5#	K-55	STC

MUD PROGRAM

0-300	Native solids. Have sufficient viscosity to gel chemical to clean hole and run casing.
300-TD	Low solids. Gel chemical. 32 viscosity and 10-15 water loss down through the Mancos. Before reaching Gallup, add 6% LCM and run viscosity at 38-40 seconds. After penetrating Gallup, let LCM drop.

EVALUATION

Cores and DST's: None.

Deviation Surveys:

1. Survey surface hole at 100' intervals. Maximum allowable deviation at 500' is $1\text{-}1/2^{0}$.

2. From surface to toal depth, deviation surveys must be taken every 500' or each trip, whichever is first. The may entail running the TOTCO on wireline. Record each survey on the IADC Drilling Report Sheet. Maximum allowable change in deviation is 1^{0} per 100'. Maximum deviation allowable is 5^{0}.

Samples: As requested by Wellsite Geological Engineer.

Logs: 1. GR/IND FDC-GR-Cal TD to MV

BLOWOUT EQUIPMENT

3" - 3000 BOP with rotating head to comply with TOC requirements as shown in BOE arrangement, Figure C. Preventers must be checked for operation every 24 hours with each check recorded on the IADC Drilling Report Sheet.

REPORTS

Drilling Reports for the past 24 hours will include depth, footage, time distribution, activity breakdown, mud properties, bit record, bottom hole assembly, daily and cumulative mud cost, deviation surveys, and other pertinent information to be called into Division Office by 7:30 A.M. Monday thru Friday.

TENNECO OIL COMPANY
P.O. BOX 3249
ENGLEWOOD, COLORADO 80155
PHONE: 303-740-4800

Office Directory

Don S. Barnes	740-4814
John W. Owen	740-4810
Tom Dunning	740-4813
Jack Magill	740-4802
Dale Kardash	740-4809

In case of emergency or after hours call the following in the preferred order.

(1)	Don S. Barnes Division Drilling Engineer	740-4814 936-0704	Office Home
(2)	John W. Owen Project Drilling Engineer	740-4810 795-0221	Office Home
(3)	Mike Lacey Division Production Manager	797-2651	Home

TENNECO OIL COMPANY - 10 POINT PLAN

1. The geological name of the surface formation: San Jose
2 & 3. Estimated Formation Tops:

(See Attached Drilling Procedure)

4. Proposed Casing Program:

(See Attached Drilling Procedure)

5. Blowout Preventors:
Hydraulic double ram. One set of rams will be provided each size drill pipe in the hole. One set of blind rams at all times. Fill line will be 2", kill line will be 2", choke relief line will be 2". BOP's, drills and tests will be recorded in the driller's log. BOP will be tested every 24 hours and recorded in IADC Log.

6. Mud Program: (Sufficient quantity of mud and weight material will be available on location).

(See Attached Drilling Procedure.

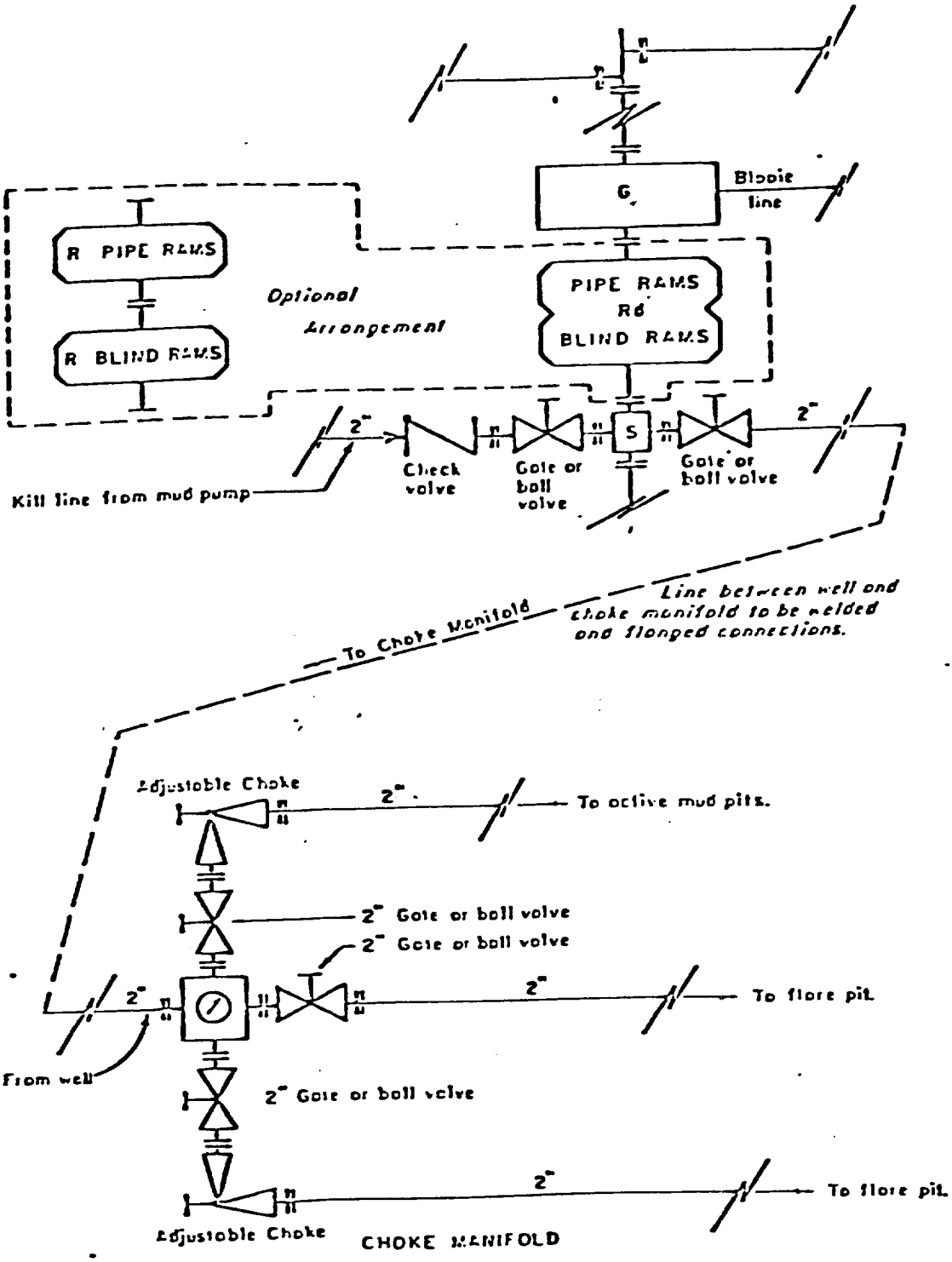
7. Auxiliary Equipment:
   a. Kelly cock will be in use at all times.
   b. Stabbing valve to fit drill pipe will be present on floor at all times.
   c. Mud monitoring will be visual. No abnormal pressures are anticipated.
   d. Floats at bits.
   e. Drill string safety valve(s) to fit all pipe in drill string will be maintained on the rig floor while drilling operations are in progress.
8. Coring, Logging, and Testing Program:

(See Attached Drilling Procedure)

9. No abnormal pressures, temperatures or potential hazards such as H_2S are expected to be encountered.

10. The drilling of this well will start approximately (February '89) and continue for 10 to 12 days.

Your office will be notified of spudding in sufficient time to witness cementing operations. Immediate notice will be given on blowouts, fires, spills, and accidents involving life threatening injuries or loss of life. Prior approval will be obtained before appreciably changing drilling program or commencing plugging operations, plug back work, casing repair work or corrective cementing operations.



All equipment to be 3,000 psi working pressure except as noted.

Rd Double ram type preventer with two sets of rams.

R Single ram type preventer with one set of rams.

S Drilling spool with side outlet connections for choke and kill lines.

G Rotating head 150 psi working pressure minimum

ARRANGEMENT C

TENNECO OIL COMPANY
ROCKY MOUNTAIN DIVISION

REQUIRED MINIMUM
BLOWOUT PREVENTER AN
CHOKE MANIFOLD

J. MAGILL 10-26-78 EVI

1. Existing Road - Please refer to Map No. 1 which shows the existing roads. New roads which will be required have been marked on this map. All existing and new roads will be properly maintained during the duration of this project.

2. Planned Access Roads - Please refer to Map No. 1. The grade of the access roads will be consistent with that of the local terrain. The road surface will not exceed twenty feet (20') in width. Upon completion of the project, the access road will be adequately drained to control soil erosion. Drai facilities may include ditches, water bars, culverts or a other measure deemed necessary by trained Company personn to insure proper drainage. Gates and/or cattleguards wil installed if necessary.

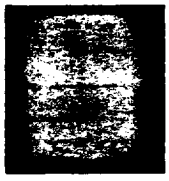
3. Location of Existing Wells - Please refer to Map No. 2.

4. Location of Tank Batteries, Production Facilities, and Production Gathering an Service Lines - Please refer to Maps No. 1 and No. 2. Map No. 2 shows th existing roads and new proposed access roads. All known production facilities are shown on these two maps.

5. Location and Type of Water Supply - Water for the proposed project will be obtained from a private source.

6. Source of Construction Materials - No additional materials will be required to build either the access road or the proposed location.

7. Methods of Handling Waste Materials - All garbage and trash materials will be put into a burn pit shown on the attached Location Plat No. 1. When clean-up operations are begun on the propose project, the burn pit with its refuse will be buried to a depth of at lease three feet (3'). A latrine, the location of which is also shown on Plat No. 1. will be provided for human waste. If large amounts of liquids ar left in the reserve pit after completion of the project, pit will be fenced until the liquids have had adequate ti to dry. The location clean-up will not take place until time as the reserve pit can be properly covered over to p vent run-off from carrying any of these materials into th watershed. No earthen pit will be located on natural dra age; all earthen pits will be so constructed as to preven leakage from occurring.



8. Ancillary Facilities - pr

9. Wellsite Layout - Pl

10. Plans for Restoration c th

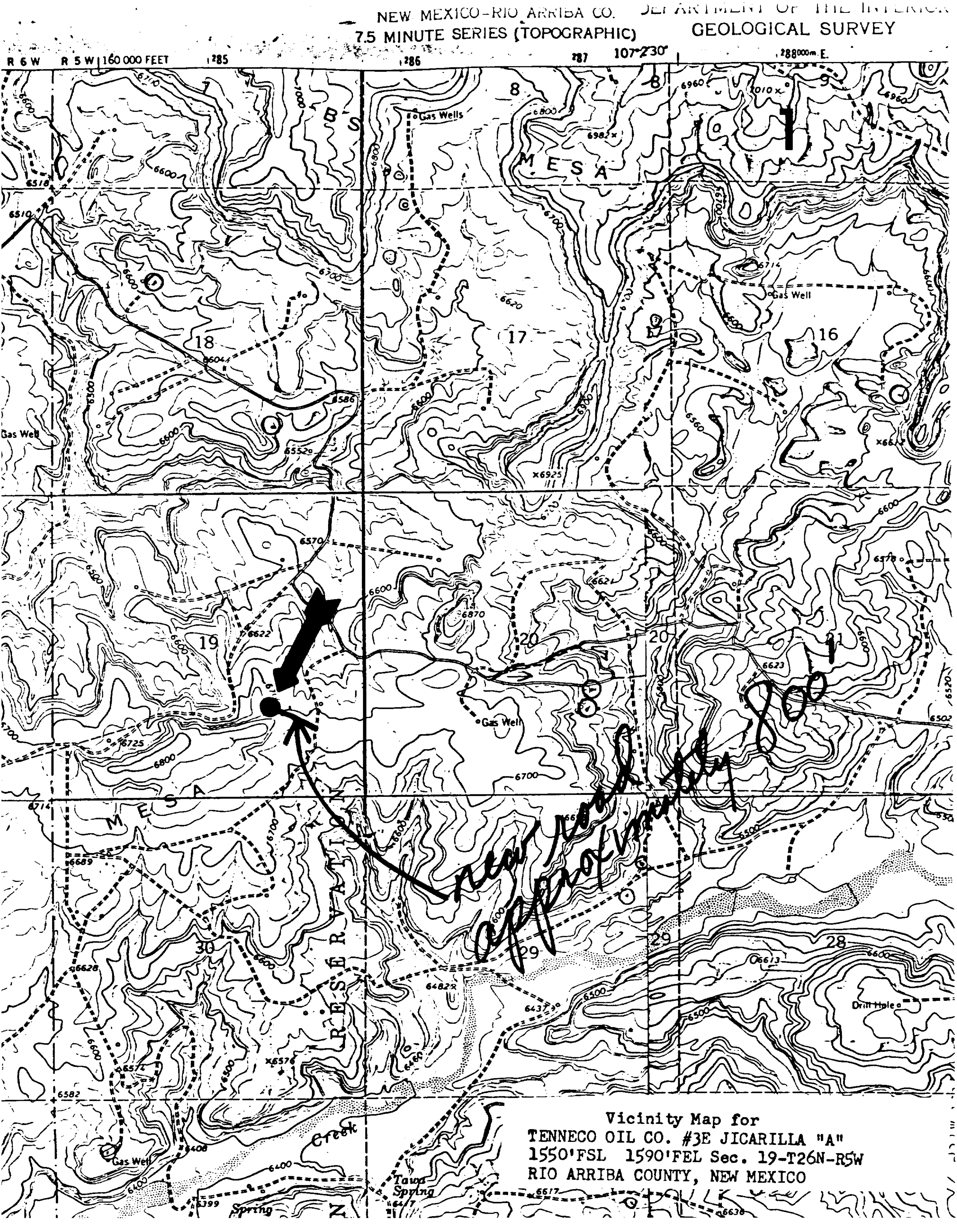
op by re pe pr re

11. Other Information - The Dra sna

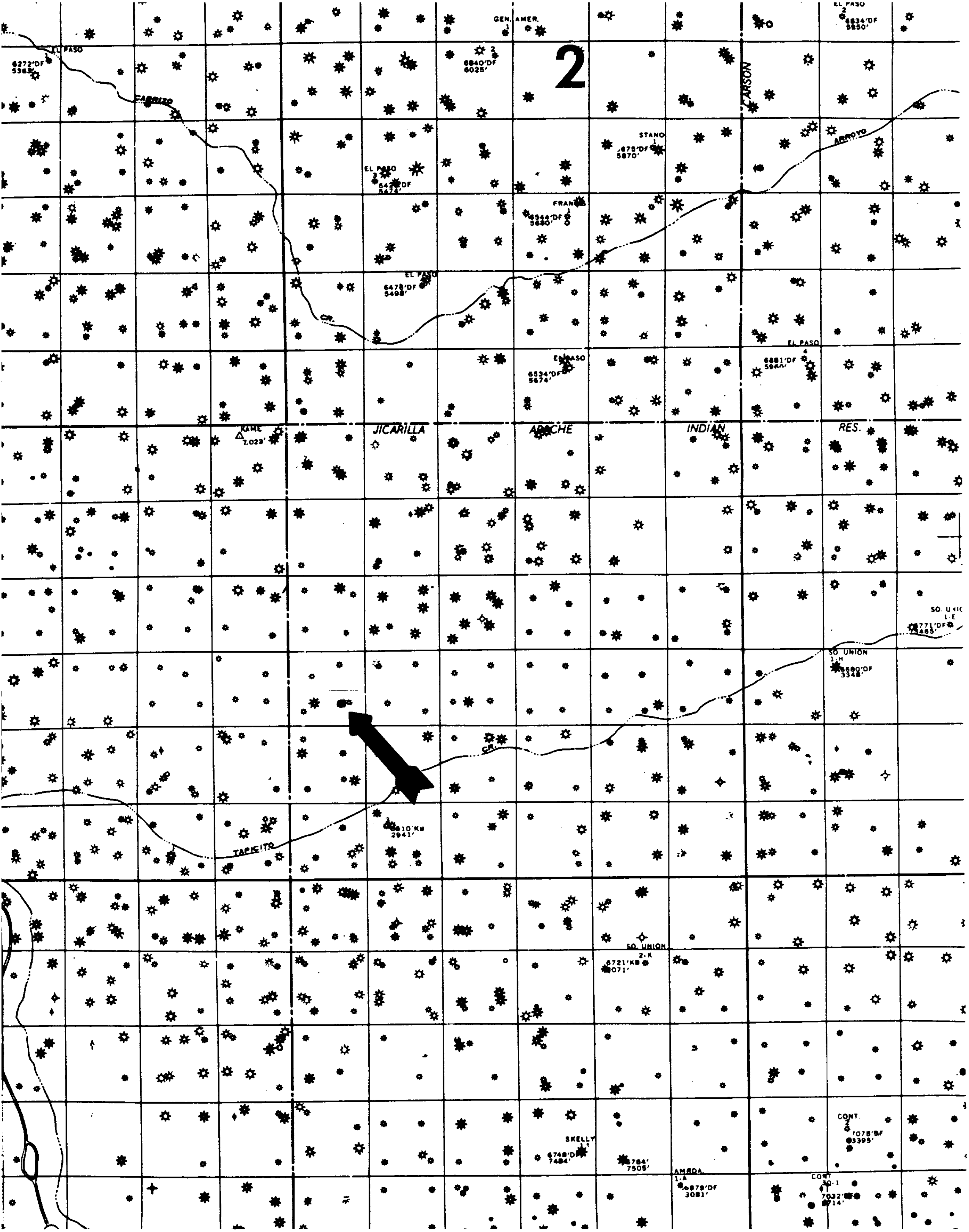
12. Operator's Representati

13. Certification - I vi ro ex of as fo an te

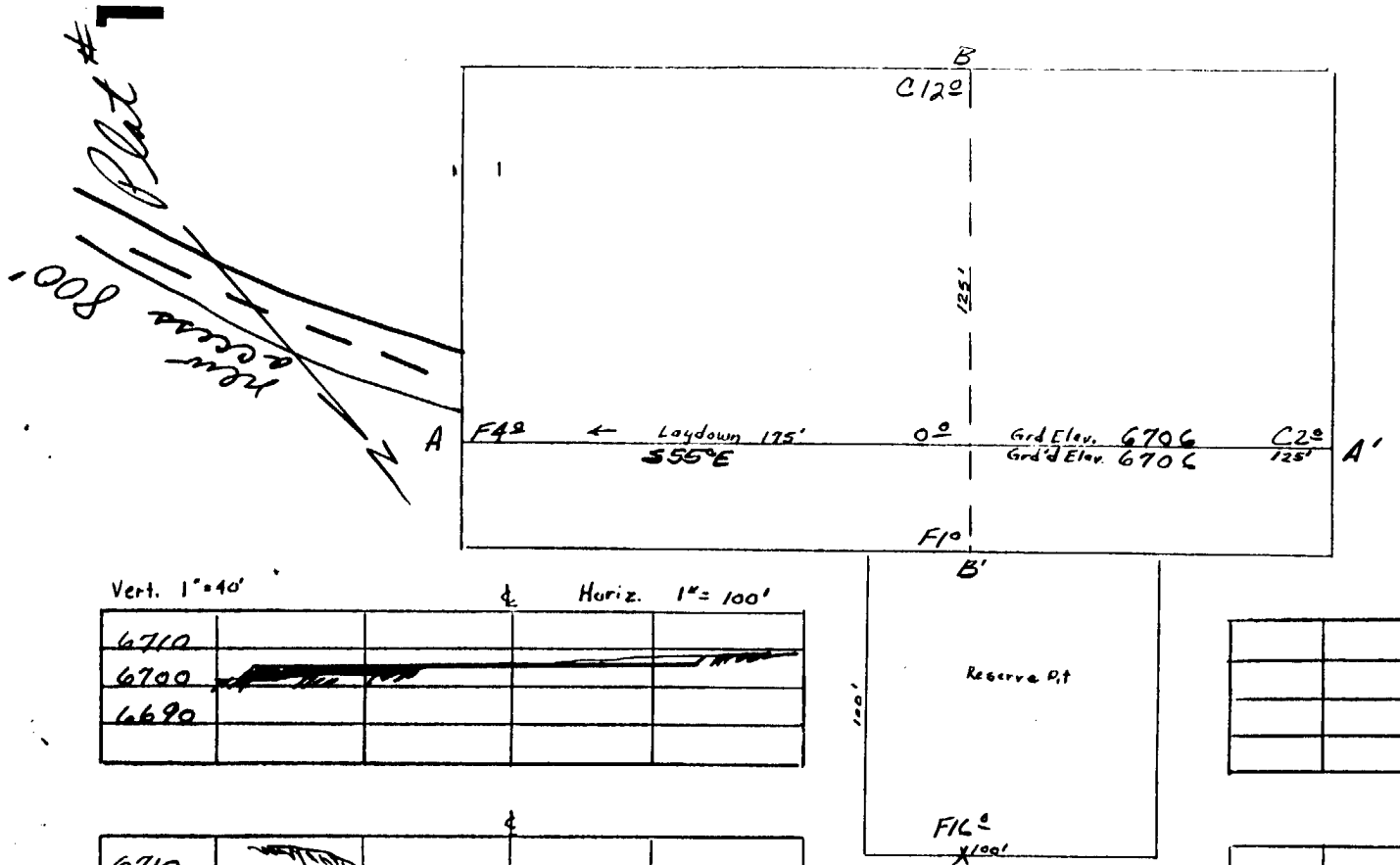
R. Sr.

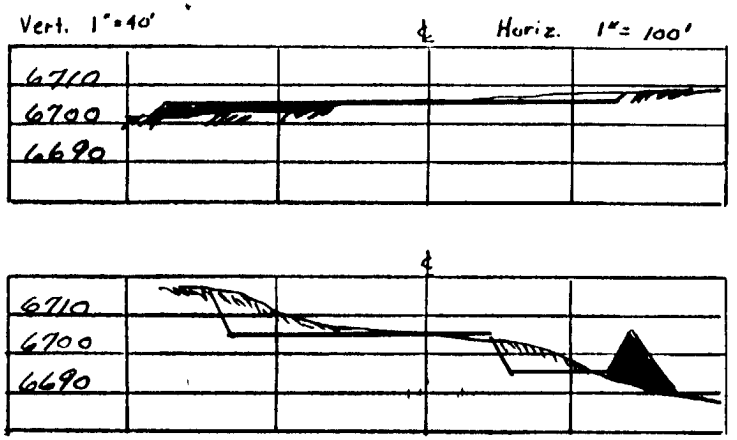


Vicinity Map for
TENNECO OIL CO. #3E JICARILLA "A"
1550'FSL 1590'FEL Sec. 19-T26N-R5W
RIO ARRIBA COUNTY, NEW MEXICO


2
EL PASO
GEN. AMER.
CARSON
STANO
ARROYO
CR.
JICARILLA
APACHE
INDIAN
RES.
TAPICITO
SO. UNION
SKELLY
CONT.

Profile Map for
TENNECO OIL CO. #3E JICARILLA "A"
1550'FSL 1590'FEL Sec. 19-T26N-R5W
RIO ARRIBA COUNTY, NEW MEXICO





Date 11/1/80

Kerr Land Surveying, Inc.