

SURFACE USE PLAN

30-025-39756

ROBERT E. LANDRETH
CACTUS "21" FEDERAL #1
UNIT "A" SECTION 21
T25S-R35E LEA CO. NM

1. EXISTING AND PROPOSED ROADS:

- A. Exhibit "B" is a reproduction of a County General Hi-way map showing existing roads. Exhibit "C" is a reproduction of a USGS topographic map showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. All new roads will be constructed to BLM specifications.
- B. Exhibit "A" shows the proposed well site as staked.
- C. Directions to location: From Eunice New Mexico take State Road 207 South 2.5 miles to State road E-21 (Delaware Basin Road). Turn right (West) follow road 32.6 miles to State Hi-way 128, turn Left (East) go 9.8 miles (.6 Mi East of MP 41), turn Right (South) go 2.84 miles, turn Right (West) go 500' to location.
- D. Exhibit "C" shows a topographic map with existing roads and proposed roads. Tank battery and production facilities will be constructed on location.

2. PLANNED ACCESS ROADS: 8200' of new road will be constructed 5280' on State land.

- A. The access roads will be crowned and ditched to a 14' wide travel surface, within a 30' R-O-W.
- B. Gradient of all roads will be less than 5%.
- C. Turn-outs will be constructed where necessary.
- D. If require new access roads will be surface with a minimum of 4-6" of caliche. this material will be obtained from a local source.
- E. Center line for new roads will be flagged, road construction will be done as field conditions require.
- F. Culverts will be placed in the access road as drainage conditions require. Roads will be constructed to use low water crossings for drainage as required by the topographic conditions.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS: EXHIBIT "A-1"

- A. Water wells - One approximately 2300' Northwest of location.
- B. Disposal wells - None known
- C. Drilling wells - None known
- D. Producing wells - As shown on Exhibit "A-1"
- E. Abandoned wells - As shown on Exhibit "A-1"

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4. If on completion this well is a producer the operator will lay pipelines and construct powerlines along existing road R-O-W's or other existing R-O-W's. Exhibit "C" shows proposed roads, flowlines and powerlines.

5. LOCATION & TYPE OF WATER SUPPLY:

Water will be purchased locally from a commercial source and trucked over the location access roads or piped to location in flexible lines laid on top of the ground.

6. SOURCE OF CONSTRUCTION MATERIAL:

If possible construction material will be obtained from the excavation of the drill site, if additional material is required it will be obtained from a local source and transported over the location access roads as shown on Exhibit "C".

7. METHODS OF HANDLING WASTE:

- A. All trash, junk and other waste material will be contained in trash cages or trash bins in order to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- B. Sewage from living quarters will be drained into holding tanks and will be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of well.
- C. Where a closed loop mud system is used to drill a well the drilling fluid that remains after the drilling and casing is run or the well is Plugged and abandoned will be removed from the location and in some cases may be used on another well or transported to a State approved disposal site. The drilling cuttings that result from drilling the well will likewise be transported to a State approved disposal site.
- D. All water produced while completing this well and completion fluids will be treated in the same procedure as the drilling fluids.
- E. Any remaining salts or mud additive that was not used will be removed by the supplier, this includes all broken sacks and containers.

8. ANCILLARY FACILITIES:

- A. No camps or air strips will be constructed on this location.

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9. WELL SITE LAYOUT:

- A. Exhibit "D" shows the proposed well site layout.
- B. This Exhibit shows the location of reserve pit, sump pits, and living facilities.
- C. Mud pits in the active circulating system will be steel pits and the reserve pits will be unlined unless subsurface conditions encountered during pit construction indicate that a plastic liner is required to contain lateral migration.
- D. If needed the reserve pits will be lined with polyethelene. The pit liner will be no less than 21 mils thick and the liner will be extended at least 3 feet over the top of the dikes and secured in place to keep edge of liner in place.
- E. The reserve pit will be fenced on three sides and fenced with four strands of barbed wire during drilling and completion phases. The 4th side will be fenced after drilling operations are complete and the drilling rig has moved out. If the well is a producer the mud pits will remain fenced in until the mud has dried up enough to break out the pits and reclaimed according to BLM requirements.

10. PLANS FOR RESTORATION OF SURFACE:

Rehabilitation of the location and reserve pits will be allowed to dry properly, fluids may be moved and disposed of in accordance with article 7-Eas previously noted. The pit area will then be leveled and contoured to conform to the original and surrounding area. Drainage systems, if any will be reshaped to the original configuration with provisions made to alleviate future erosion. In case of the well completed as a producer the drilling pad will be necessary to construct production facilities. After the area has been shaped and contoured top soil from the spoil pile will be placed over the disturbed area to the extent possible so that revegetation procedures can be accomplished to comply with the BLM specifications.

If the well is a dry hole the pad and road area will be contoured to match the existing terrain. Top soil will be spread to the extent possible and revegetation will be carried out according to the BLM specifications.

Should the well be a producer the previously noted procedures will apply to those areas which are not required for production facilities.

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11. ADDITIONAL INFORMATION:

- A. this project is located in the Southern part of Lea Co, New Mexico, the topography consists of small to medium sized sand dunes, the vegetation consists of Mesquite, Broom Weed, and native grasses.
- B. The surface is owned by The U. S. Department of Interior and is administered by The Bureau of Land Management. The minerals are also owned by The Department of Interior. The surface is used for the grazing of livestock and the production of oil and gas.
- C. The archaeology is covered by The Permian Basin MOA and will be used in conjunction with their procedure.
- D. There are no dwellings within 2 miles of this location. A ranch water well is located approximately onehalf mile Northwest of this location.

CERTIFICATION

I HEREBY CERTIFY THAT I OR PERSONS UNDER MY DIRECT SUPERVISION HAVE INSPECTED THE PROPOSED DRILL SITE AND THE ACCESS ROAD ROUTES, THAT I AM FAMILIAR WITH THE CONDITIONS THAT CURRENTLY EXIST, THAT THE STATEMENTS MADE IN THIS PLAN ARE TO THE BEST OF MY KNOWLEDGE ARE TRUE AND CORRECT, AND THAT THE WORK ASSOCIATED WITH THE OPERATIONS PROPOSED HEREIN WILL BE PERFORMED BY ROBERT E. LANDRETH.. ITS CONTRACTORS AND/OR ITS SUB-CONTRACTORS AND IS IN CONFORMANCE WITH THIS PLANS AND TERMS AND THE CONDITIONS UNDER WHICH IT IS APPROVED. THIS STATEMENT IS SUBJECT TO THE PROVISIONS OF U.S.C. FOR FILING A FALSE REPORT.

OPERATOR'S REPRESENTATIVES:

BEFORE CONSTRUCTION

TIERRA EXPLORATION, INC
P. O. BOX 2188
JOE JANICA
OFFICE PH 575-391-8503
CELL 575-390-1598

DURING & AFTER CONSTRUCTION

ROBERT E. LANDRETH
110 WEST LOUISIANA
SUITE 404
MIDLAND, TEXAS 79701
OFFICE PH 432-684-4781
CELL 432-553-4718

NAME

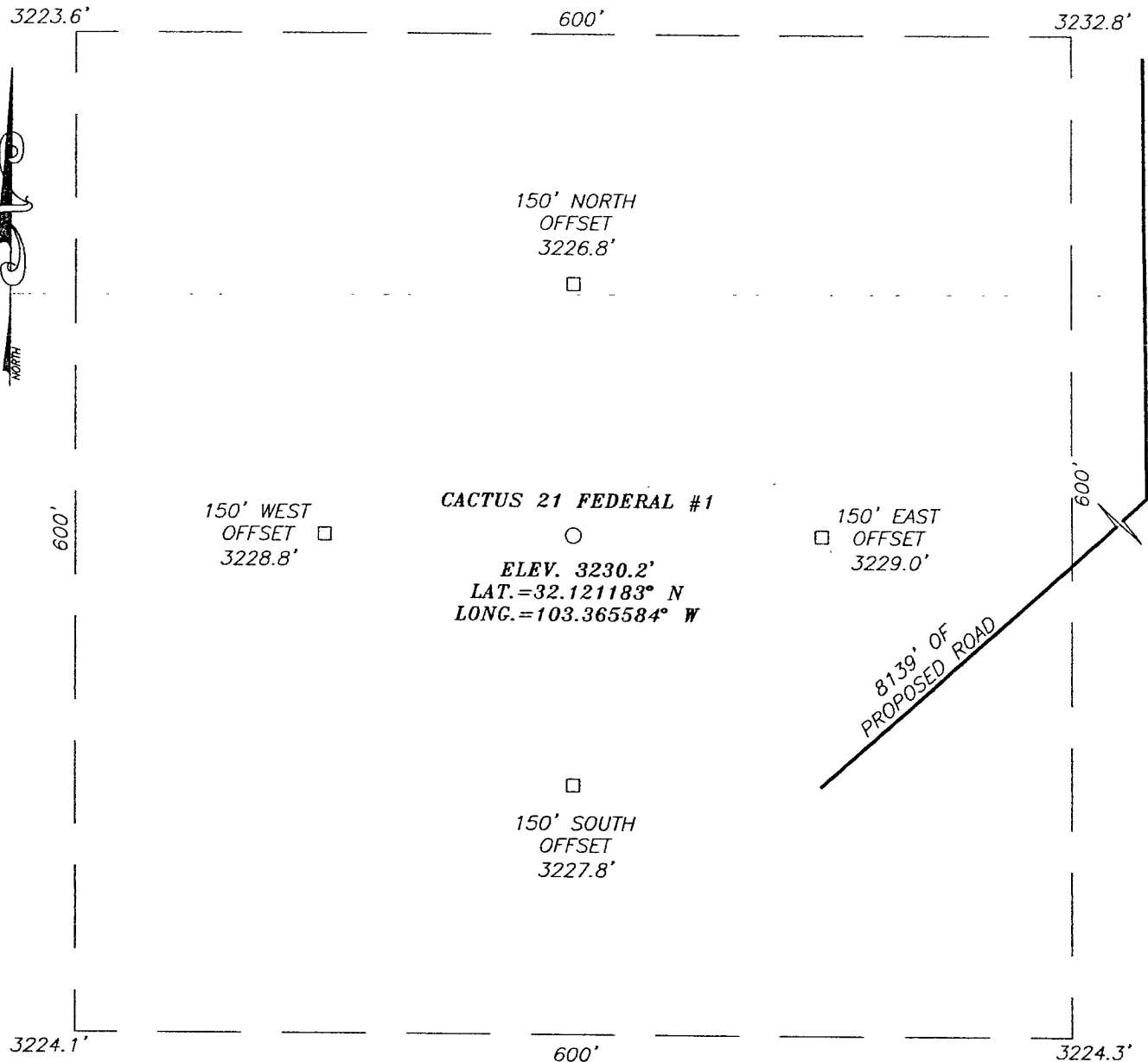
TITLE

Joe T. Janice
Permit Eng.

DATE

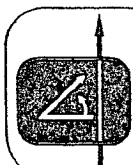
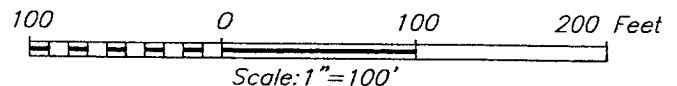
04/09/10

SECTION 21, TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF ST. HWY. #18 AND ST. HWY. #128 (JAL NM) GO WEST ON ST. HWY. #128 APPROX. 11.7 MILES. TURN LEFT AND GO SOUTH THROUGH APPROX. 1.3 MILES TO PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY SOUTH 1.4 MILES. THEN SOUTHWEST 650 FEET TO THIS LOCATION.



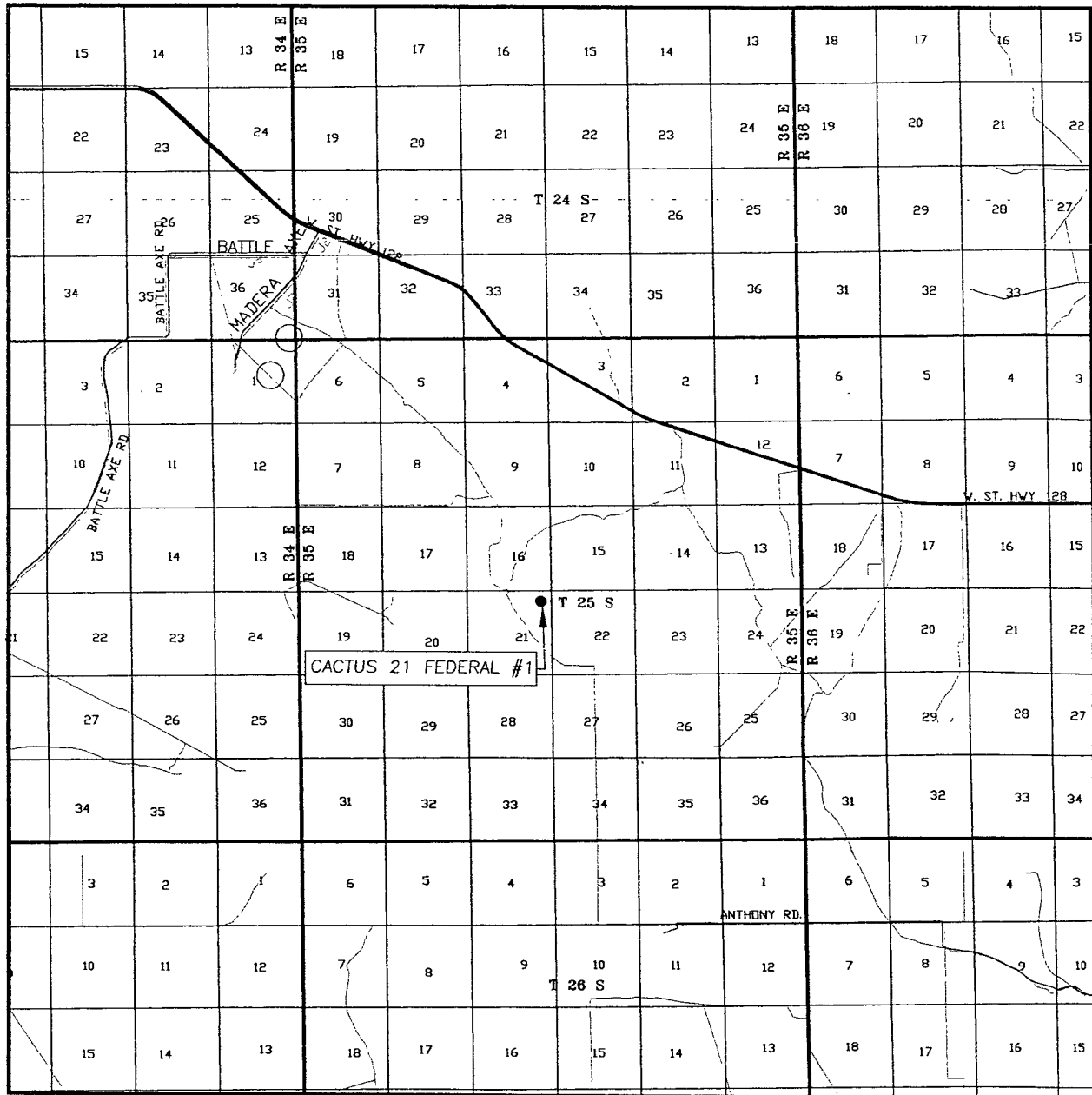
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (575) 393-3117

ROBERT E. LANDRETH

CACTUS 21 FEDERAL #1 WELL
 LOCATED 660 FEET FROM THE NORTH LINE
 AND 660 FEET FROM THE EAST LINE OF SECTION 21,
 TOWNSHIP 25 SOUTH, RANGE 35 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 3/29/10	Sheet 1 of 1 Sheets
W.O. Number: 10.11.0434	Dr By: LA
Date: 3/31/10	10110434
	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 21 TWP. 25-S RGE. 35-E

SURVEY N.M.P.M.

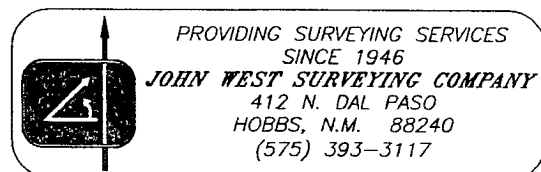
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 660' FNL & 660' FEL

ELEVATION 3230'

OPERATOR ROBERT E. LANDRETH

LEASE CACTUS 21 FEDERAL





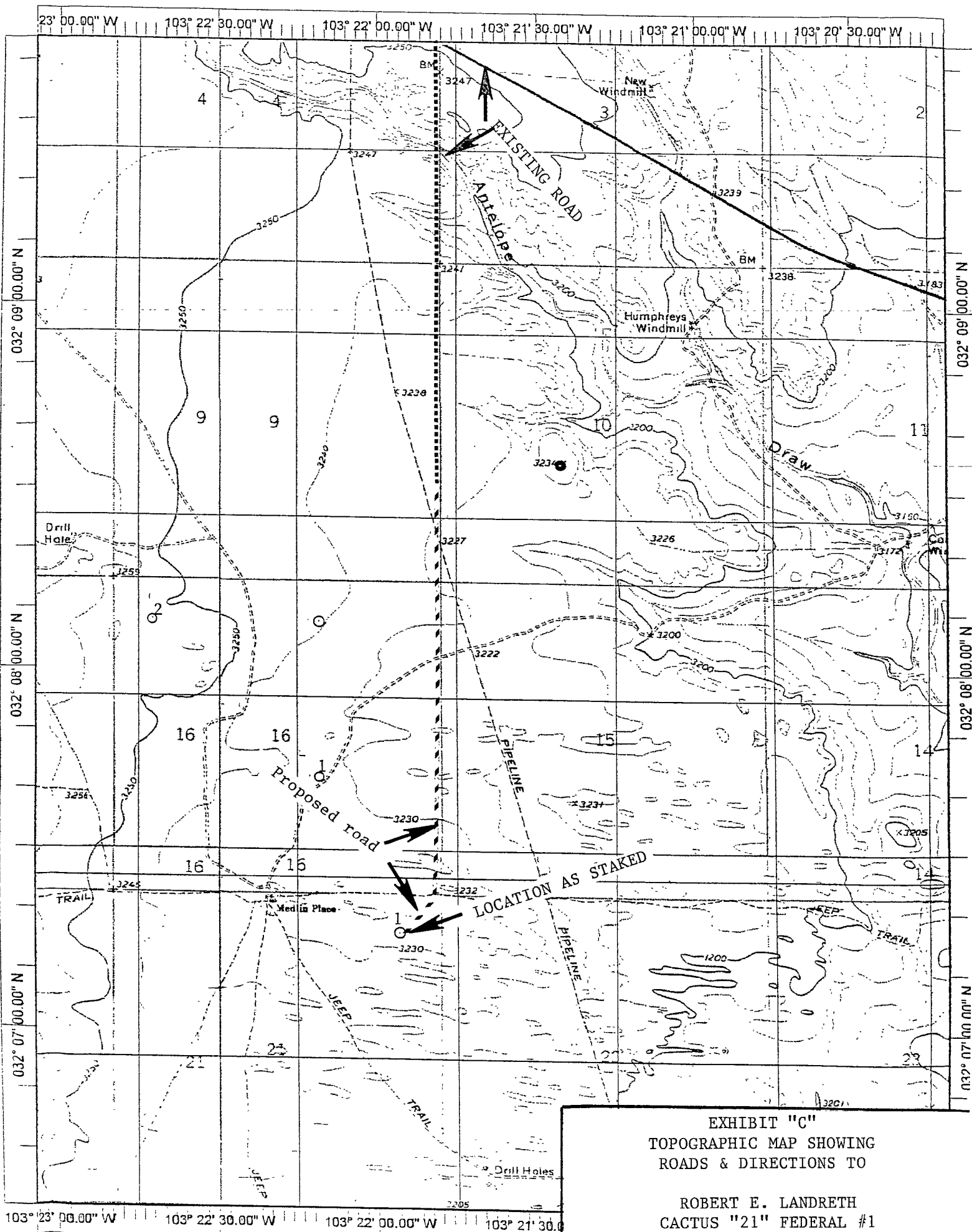


EXHIBIT "C"
TOPOGRAPHIC MAP SHOWING
ROADS & DIRECTIONS TO

ROBERT E. LANDRETH
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UNIT "A" SECTION 21
T25S-R35E LEA CO. NM