

Resaca Operating Company  
Cooper Jal Unit 147  
2313' FNL & 326' FWL\*  
Sec. 19, T. 24 S., R. 37 E.  
Lea County, New Mexico

30-025-11166

HOBBS OCD

DEC 12 2011

RECEIVED

\* Shown in NMOCD records at 2310 FNL & 330 FWL. Well has not moved. Change reflects new GPS survey technology. Well was plugged and abandoned in 2001.

## Surface Use Plan

### 1. DIRECTIONS & EXISTING ROADS

From the junction of NM 18 and NM 128 in Jal ...  
Go North 6.3 miles on NM 18 to the equivalent of Mile Post 15.2  
Then turn left and go West 0.9 mile on paved County Road J-7  
Then turn left and go South  $\approx$ 0.45 mile on a caliche road  
Then turn left and go East  $\approx$ 100 yards on a dirt road

Roads will be maintained to a standard at least equal to their present condition.

### 2. ROAD TO BE BUILT OR UPGRADED

The proposed pad overlaps an existing road and the original pad. No new road will be built. Upgrading of the existing roads will consist of repairing potholes with caliche and surfacing the last 100 yards with caliche.

### 3. EXISTING WELLS

There are 59 oil or gas wells, 27 water injection or disposal wells, 12 plugged & abandoned wells, and 1 water well within a one mile radius.

### 4. PROPOSED PRODUCTION FACILITIES

The only planned production equipment will be a pump jack. It will be painted a

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flat shale green color. The well will be connected to the existing pipeline that previously served the well. No off pad pipeline is planned. A raptor safe power line will be built 764.8' north to Resaca's existing overhead power line.

#### 5. WATER SUPPLY

Water will be trucked from private land in Jal.

#### 6. CONSTRUCTION MATERIALS & METHODS

NM One Call (1-800-321-ALERT) will be notified before construction starts.

A  $\approx 200'$  x  $\approx 200'$  pad will be bladed and rocked with caliche. The top 6" of soil and brush will be stockpiled north and/or west of the pad. V-door (lay down) will be to the east. A closed loop drilling system will be used. Caliche will be bought and hauled from an existing approved caliche pit. Dirt contractor will be responsible for the caliche.

#### 7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to a county landfill. There will be no trash burning. Contents of the mud tanks will be hauled to state approved disposal sites. Human waste will be disposed of in chemical toilets and hauled to an approved dump station.

#### 8. ANCILLARY FACILITIES

There will be no air strip or camp. Camper trailers will be on location for the company man, tool pusher, or mud logger.

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#### 9. WELL SITE LAYOUT

See attached pages for depictions of the well pad, trash cage, access onto the location, parking, living facilities, and rig orientation.

#### 10. RECLAMATION

Interim reclamation will consist of reclaiming 3 sides of the pad and reducing the pad footprint to the area inside the anchors. Enough space will be left unreclaimed for safe work overs. Disturbed areas will be contoured to a natural shape. Soil and brush will be evenly spread over disturbed areas. Seeded areas will be ripped and/or harrowed. A land owner approved seed mix will be sown. Once the well is plugged, then the remainder of the pad will be similarly reclaimed.

#### 11. SURFACE OWNER

All construction will be on RRR Land & Cattle Company surface. Their address is 2205 Bedford Drive, Midland, TX 79701-5710. Phone numbers are (432) 683-1306 or (806) 752-6725. Resaca has a surface use agreement with the surface owner. A copy of this surface use plan has been provided to the surface owner.

#### 12. OTHER INFORMATION

The nearest hospital (Nor-Lea General) is a  $\approx 3/4$  hour drive away in Hobbs at 2827 North Dal Paso Street. Its phone number is (575) 392-1449.

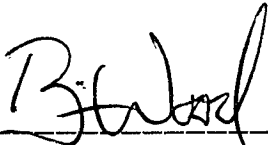
An on site inspection was conducted by Trishia Bad Bear (BLM), Randy McAnally (Resaca), and Charlie Black (Permits West) on May 10, 2011. Lone Mountain Archaeological Services filed their reports #1336 and #1358 on

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May 23 and July 7, 2011.

### 13. REPRESENTATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package 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 APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 25th day of July, 2011.



\_\_\_\_\_  
Brian Wood, Consultant  
Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

Field representatives will be:

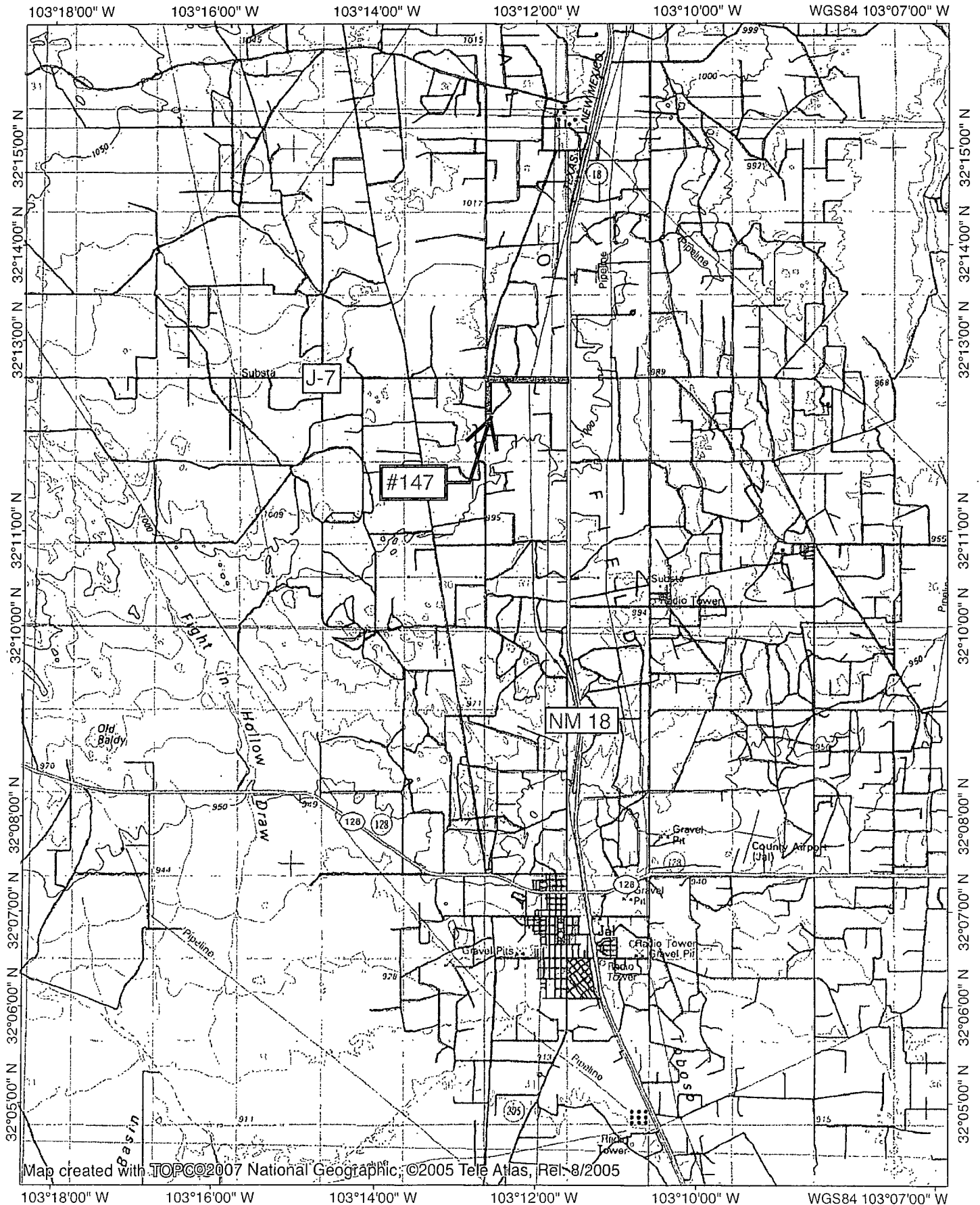
Marc Neatherlin  
mobile: (432) 557-9430

or

Randy McAnally  
mobile: (432) 634-4717

Resaca Operating Company  
2509 Maurice Road  
Odessa, TX 79763-4800  
(432) 580-8500

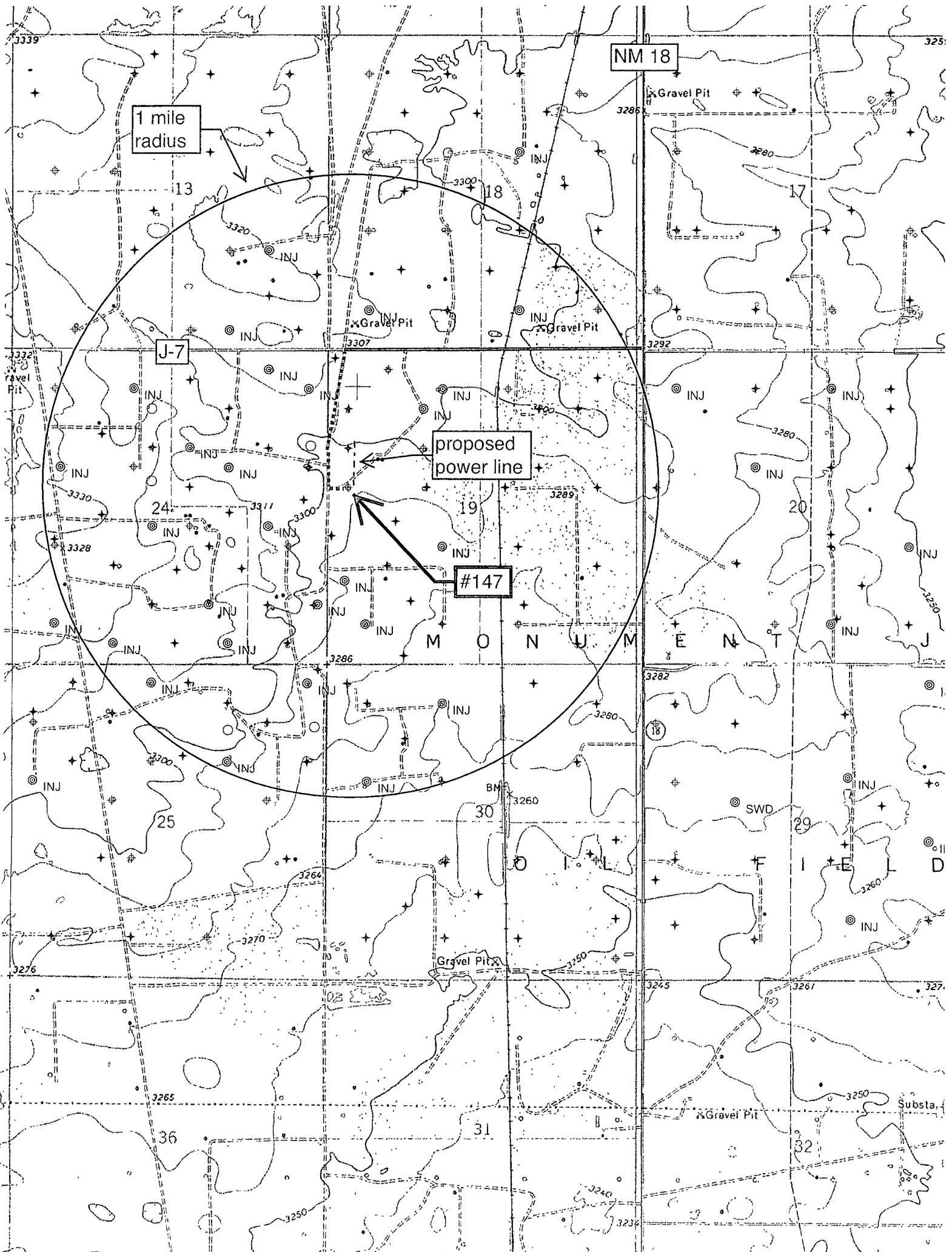
TOPO! map printed on 03/01/11 from ".tpo"



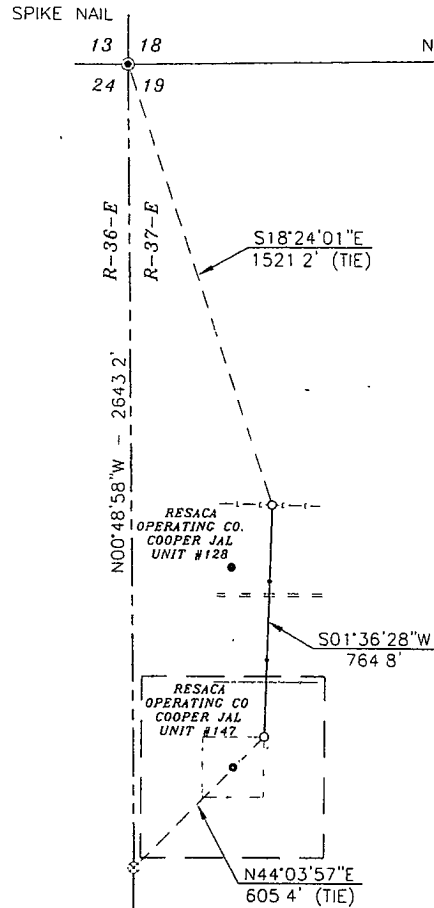
NATIONAL  
GEOGRAPHIC

0.0 0.5 1.0 1.5 2.0 2.5 3.0 miles  
0 1 2 3 4 5 km

TN MN  
7.5°  
03/01/11



SECTION 19, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.  
LEA COUNTY  
NEW MEXICO



0+00.0 BEGIN SURVEY @  
PROPOSED INSET POLE  
2+54.9 POLE #2  
2+94.7 CL CALICHE ROAD 15'W  
5+09.8 POLE #3  
5+84.8 EPL  
7+64.8 END SURVEY @  
POLE #4

**LANDOWNER**  
RRR LAND & CATTLE CO.

**DESCRIPTION**

SURVEY FOR AN ELECTRIC LINE EASEMENT CROSSING RRR LAND & CATTLE CO LAND IN SECTION 19, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS

BEGINNING AT A POINT WHICH LIES S18°24'01"E - 1521.2 FEET FROM THE NORTHWEST CORNER OF SAID SECTION 19, THEN S01°36'28"W - 764.8 FEET TO A POINT WHICH LIES N44°03'57"E - 605.4 FEET FROM THE WEST QUARTER CORNER OF SAID SECTION 19

TOTAL LENGTH EQUALS 764.8 FEET OR 46.35 RODS



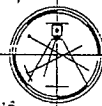
**SURVEYORS CERTIFICATE**

I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

*Terry J. Asel* 7/1/2011  
Terry J. Asel N.M. R.P.S. No. 15079

Asel Surveying

P.O. BOX 393 - 310 W. TAYLOR  
HOBBS, NEW MEXICO - 575-393-9145



**LEGEND**

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

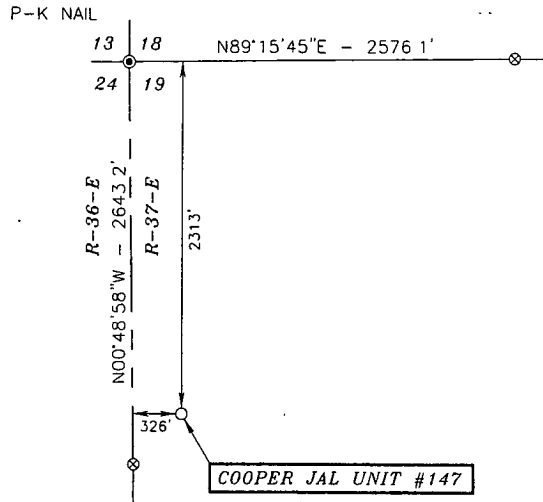
500' 0 500' 1000' FEET  
SCALE 1"=500'

**RESACA OPERATING CO.**

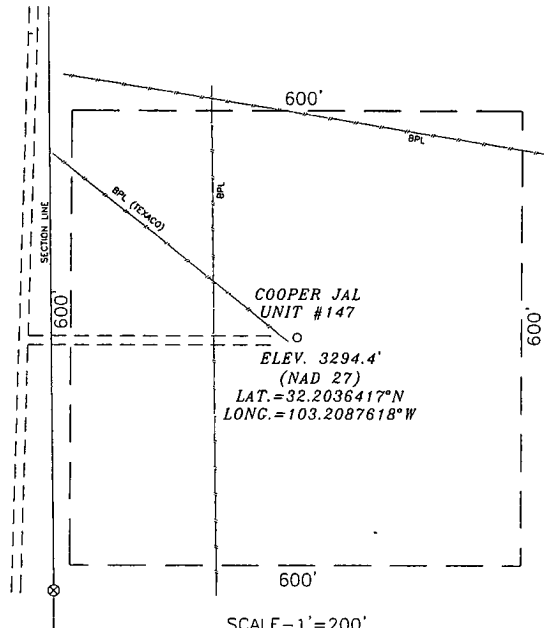
SURVEY FOR AN ELECTRIC LINE EASEMENT  
CROSSING RRR LAND & CATTLE CO. LAND IN  
SECTION 19, TOWNSHIP 24 SOUTH, RANGE 37  
EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 06/22/11	Sheet 1 of 1 Sheet
W.O. Number 110622EL-b	Drawn By. KA
Date 06/27/11	110622EL-b DWG Scale: 1"=500'

SECTION 19, TOWNSHIP 24 SOUTH, RANGE 37 EAST, N.M.P.M.  
LEA COUNTY NEW MEXICO



Basis of Bearings - GPS Geodetic Measurements



DRIVING DIRECTIONS  
BEGINNING IN JAL AT THE INTERSECTION  
OF STATE HWY #128 AND STATE HWY  
#18, GO NORTH ON STATE HWY #18 FOR  
6.3 MILES, TURN LEFT ON COUNTY ROAD  
#7 AND GO WEST FOR 0.8 MILES, TURN  
LEFT AND GO SOUTH ON CALICHE ROAD  
FOR 0.6 MILES TO LOCATION

SCALE - 1" = 200'



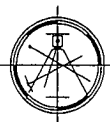
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MEXICO STATE BOARD OF REGISTRATION FOR  
PROFESSIONAL ENGINEERS AND SURVEYORS.

*Terry J. Asel* 4/25/2011  
Terry J. Asel, N.M. R.P.S. No. 15079

Asel Surveying

P O BOX 393 - 310 W TAYLOR  
HOBBS, NEW MEXICO - 575-393-9146



**LEGEND**

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

1000' 0 1000' 2000' FEET  
SCALE 1"=1000'

**RESACA OPERATING CO**

COOPER JAL UNIT #147 LOCATED AT  
2313' FNL & 326' FWL IN SECTION 19,  
TOWNSHIP 24 SOUTH, RANGE 37 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date. 04/11/11	Sheet 1 of 1 Sheet
W.O. Number. 110411WL-g	Drawn By: KA Rev.
Date. 04/19/11	110411WL-g Scale. 1"=100