

JAN 29 2014

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Surface Use Plan
Maduro Unit #10H
 Cimarex Energy Co.
 UL: C, Sec. 29, 19S, 33E
 Lea Co., NM

1. **Existing Roads:** Area maps, Exhibit "A" shows the proposed well site as staked. Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, and Exhibit "C-1" is a well site layout map, showing proposed road to location and existing road. Existing road shown on Exhibits "C," "C"-1," will be maintained in a condition equal to or better than current conditions.
 - A. From the junction of Dry Lake Road and Maljamar Road turn East for 5.3 miles, then turn south winding easterly for 2.25 miles to proposed lease road.

2. **Planned Access Roads:** Approximately 774' of new on-lease road will be constructed from the southwest qtr of the pad site to the west.
 - A. The maximum width of the driving surface will be 14.' The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

3. **Planned Electric Line:** Approximately 950' of 480 volt, 4 wire, 3 phase, 4 spans of 40' poles, raptor spec E-line will be constructed to connect to existing e-line along access road to the Maduro Unit #9H battery.

4. **Location of Existing Wells in a One-Mile Radius - Exhibit A**

A. Water wells -	None known
B. Disposal wells -	None known
C. Drilling wells -	None known
D. Producing wells -	As shown on Exhibits "A"
E. Abandoned wells -	As shown on Exhibits "A"

5. **Location of Proposed Production Facilities:**
 If on completion this well is a producer, the tank battery at the Maduro Unit #9H wellsite will be used and the necessary production equipment will be installed. Cimarex Energy proposes to construct & install two 4" buried HP poly lines down proposed lease road to the Maduro Unit #9H battery. Specifications of polyline: 1 HP polyline for oil, gas, and water production; 1 HP polyline for gas lift. Both lines will be buried 25-35' South of the access road. Length: 950'. MAOP: 1500 psi anticipated working pressure 200-300 psi. Allocation will be based on test. Route is within the unit boundaries. Any changes to the facility or off site facilities will be accompanied by a sundry notice.

5. **Location and Type of Water Supply:**
 Water will be purchased locally from a commercial source and trucked over the access roads.

6. **Source of Construction Material:**
 If possible, native caliche will be obtained from the excavation of drill site. The primary way of obtaining caliche will be by "turning over" the location. This means caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to pushing up any caliche. 2400 cu yds is the max amount of caliche needed for pad and roads. Amount will vary for each pad. The procedure below has been approved by BLM personnel:
 - A. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
 - B. An approximate 120' x 120' area is used within the proposed well site to remove caliche.
 - C. Subsoil is removed and piled alongside the 120' by 120' area within the pad site.
 - D. When caliche is found, material will be stockpiled within the pad site to build the location and road.
 - E. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
 - F. Once well is drilled, the stockpiled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced. Neither caliche nor subsoil will be stockpiled outside of the well pad. Topsoil will be stockpiled along the edge of the pad as depicted in Exhibit D – Rig Layout Diagram.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM-approved caliche pit.

FEB 03 2014

7. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

8. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- B. Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in steel containment pits.
- C. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- D. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

9. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

In areas planned for interim and final reclamation, surfacing materials will be removed and returned to a mineral pit or recycled to repair or build roads and well pads.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area

If the well is a dry hole, the pad and road area will be recoutoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements. Please see Production Facilities Layout Diagram, exhibit D-1

10. Methods of Handling Waste

- A. Drilling fluids, produced oil, and water from the well during drilling and completion operations will be stored safely and disposed of properly in a NMOCD approved disposal facility.
- B. Garbage and trash produced during drilling and completion operations will be collected in a trash container and disposed of properly at a state approved disposal facility. All trash on and around well site will be collected for disposal.
- C. Human waste and grey water will be properly contained and disposed of properly at a state approved disposal site.
- D. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste will be removed and disposed of properly at a state approved disposal site.
- E. The well will be drilled utilizing a closed loop system. Drill cuttings will be properly disposed of into steel tanks and taken to an NMOCD approved disposal facility.

11. Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. In lieu of an archaeological survey report, Cimarex will be submitting an MOA application for this well pad and access road since they are within the MOA boundary.
- D. There are no known dwellings within 1½ miles of this location.

12. On Site Notes and Information:

On December 30, 2010, A BLM onsite meeting was held no information is available in regards to the onsite.

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Cimarex Energy Co.
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 - A. The maximum width of the driving surface will be 15.' The road will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the driving surface. The ditches will be 1' deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.
 - B. From the junction of Dry Lake Road and Maljamar Road turn East for 5.3 miles, then turn south winding easterly for 2.25 miles to proposed lease road.

2. **Planned Access Roads:** Approximately 774' of new on-lease road will be constructed from the southwest qtr of the pad site to the west.

3. **Planned Electric Line:** Approximately 950' of 480 volt, 4 wire, 3 phase, 4 spans of 40' poles, raptor spec E-line will be constructed to connect to existing e-line along access road to the Maduro Unit #9H battery.

4. **Location of Existing Wells in a One-Mile Radius - Exhibit A**
 - A. Water wells - None known
 - B. Disposal wells - None known
 - C. Drilling wells - None known
 - D. Producing wells - As shown on Exhibits "A"
 - E. Abandoned wells - As shown on Exhibits "A"

5. **Location of Proposed Production Facilities:**

If on completion this well is a producer, the tank battery at the Maduro Unit #9H wellsite will be used and the necessary production equipment will be installed. Construct & install two 4" buried HP poly lines, approximately 950' each, down existing lease road to carry oil, gas, & water to the Maduro Unit #9H battery. Gas lift will be provided by HP poly line buried in the same trench along access road, approximately 950', to the Maduro Unit #9H battery. Allocation will be based on well test. MAOP 1500 psi anticipated working pressure 200-300 psi. Any changes to the facility or off site facilities will be accompanied by a sundry notice.

5. **Location and Type of Water Supply:**

Water will be purchased locally from a commercial source and trucked over the access roads.

6. **Source of Construction Material:**

If possible, native caliche will be obtained from the excavation of drill site. Topsoil will be pushed back from the drill site and existing caliche will be ripped and compacted. Then topsoil will be stockpiled on location as depicted on Exhibit "D" (rig layout). If additional material is needed, it will be purchased from a BLM-approved pit as near as possible to the well location.

7. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

8. Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- B. Mud pits in the closed circulation system will be steel pits and the cuttings will be stored in steel containment pits.
- C. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- D. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

9. Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recontoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be producer, those areas of the location not essential to production facilities and operations will be reclaimed and seeded per BLM requirements. Please see Production Facilities Layout Diagram, exhibit D-1

10 Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. In lieu of an archaeological survey report, Cimarex will be submitting an MOA application for this well pad and access road since they are within the MOA boundary.
- D. There are no know dwellings within 1½ miles of this location.

11. On Site Notes and Information:

On December 30, 2010, A BLM onsite meeting was held no information is available in regards to the onsite.

Operator Certification Statement

Maduro Unit #10H

Cimarex Energy Co.

UL: C, Sec. 29, 19S, 33E

Lea Co., NM

Operator's Representative

Cimarex Energy Co. of Colorado

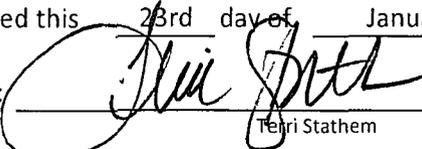
600 N. Marienfeld St., Ste. 600

Midland, TX 79701

Office Phone: (432) 571-7800

CERTIFICATION: 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 23rd day of January, 2013

NAME: 

Terri Stathem

TITLE: Regulatory Compliance

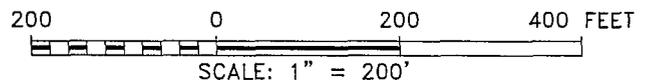
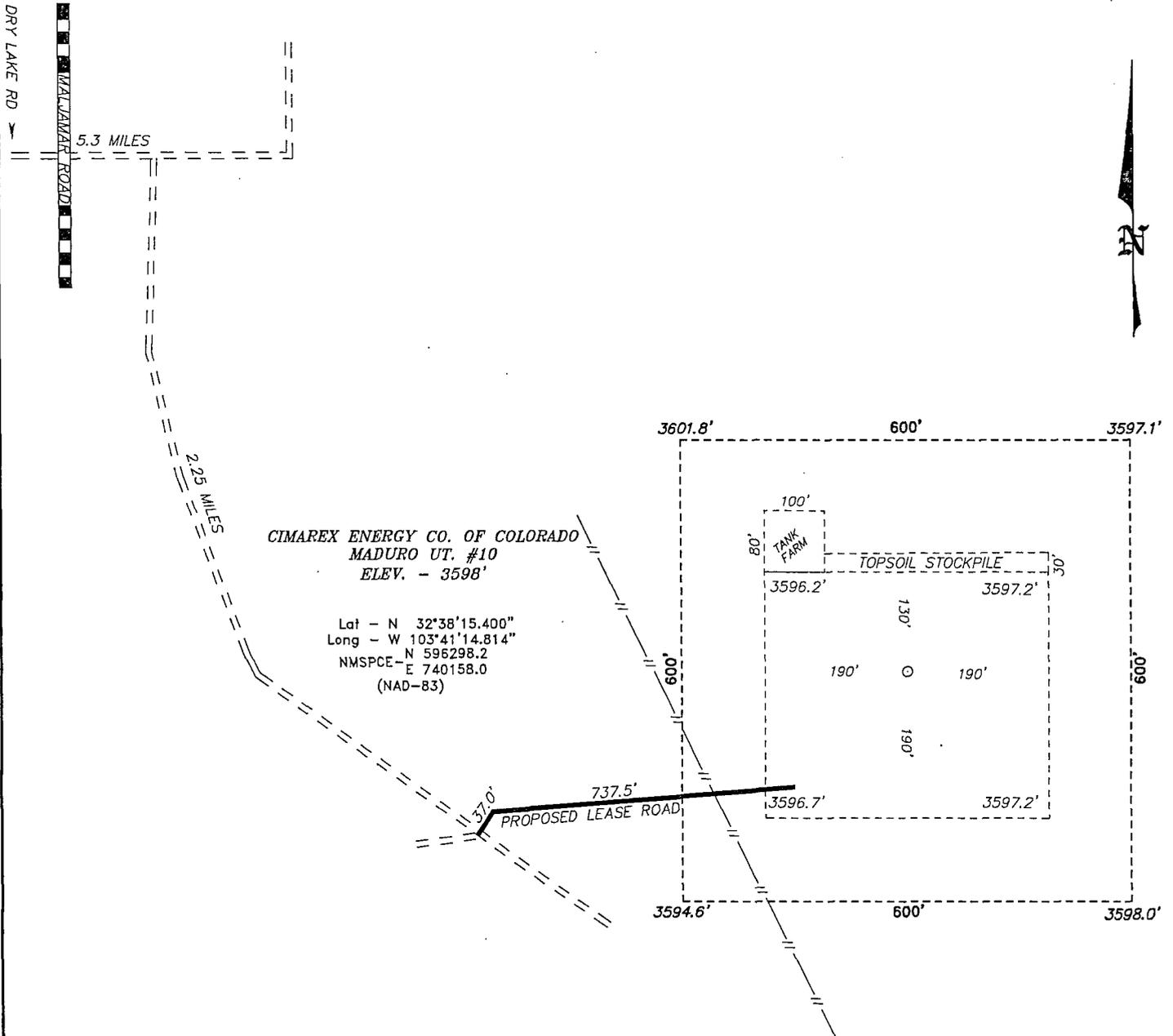
ADDRESS: 600 N. Marienfeld St., Ste. 600
Midland, TX 79701

TELEPHONE: 432-571-7848

EMAIL: tstathem@cimarex.com

Field Representative: Same as above

SECTION 29, TOWNSHIP 19 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF DRY LAKE ROAD AND
MALJAMAR ROAD TURN EAST FOR 5.3 MILES, THEN
TURN SOUTH WINDING EASTERLY FOR 2.25 MILES TO
PROPOSED LEASE ROAD.

CIMAREX ENERGY CO. OF COLORADO

REF: MADURO UT. #10 / WELL PAD TOPO

THE MADURO UT. #10 LOCATED 330'
FROM THE NORTH LINE AND 1980' FROM THE WEST LINE OF
SECTION 29, TOWNSHIP 19 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 23813

Drawn By: B. NIXON

Date: 12-29-2010

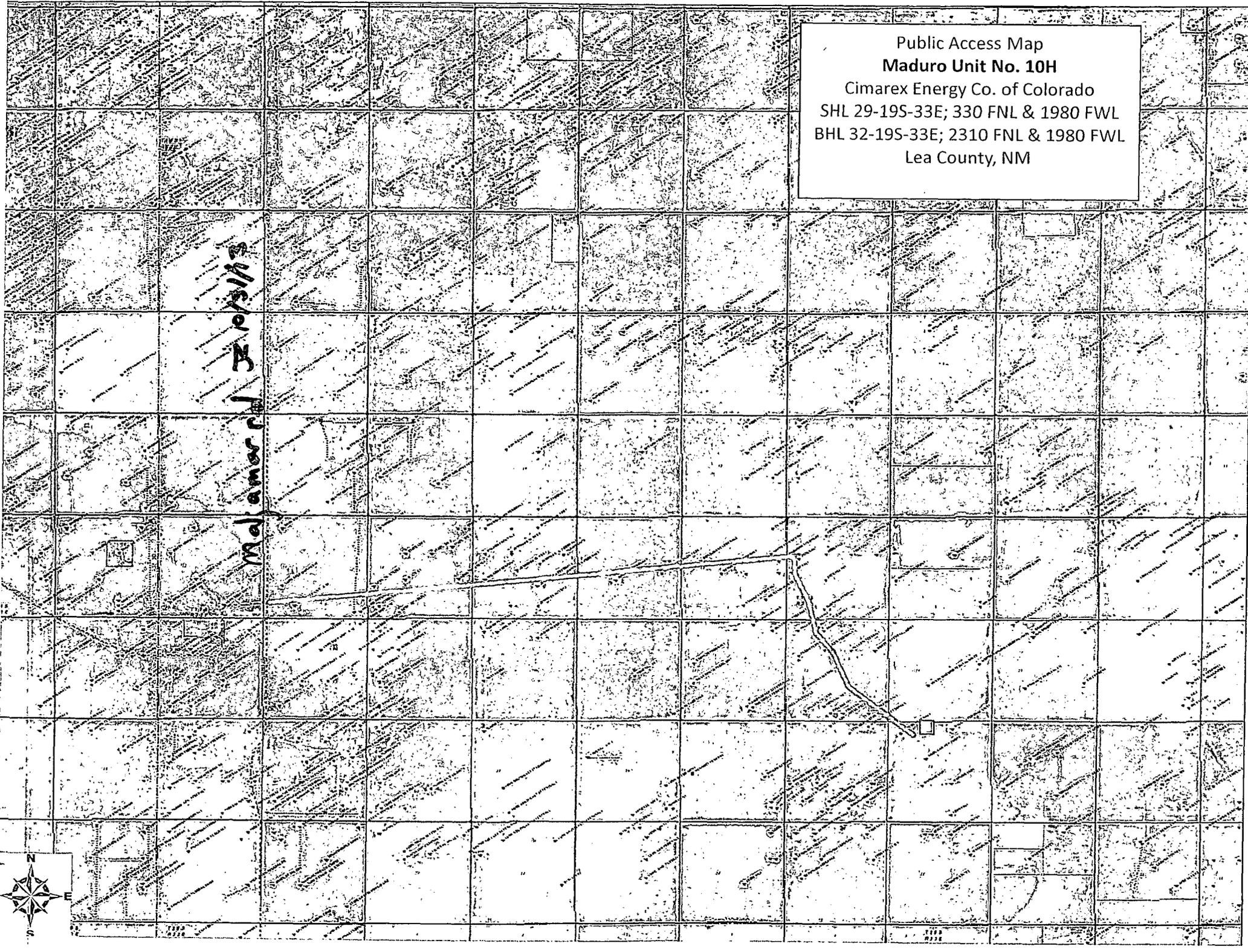
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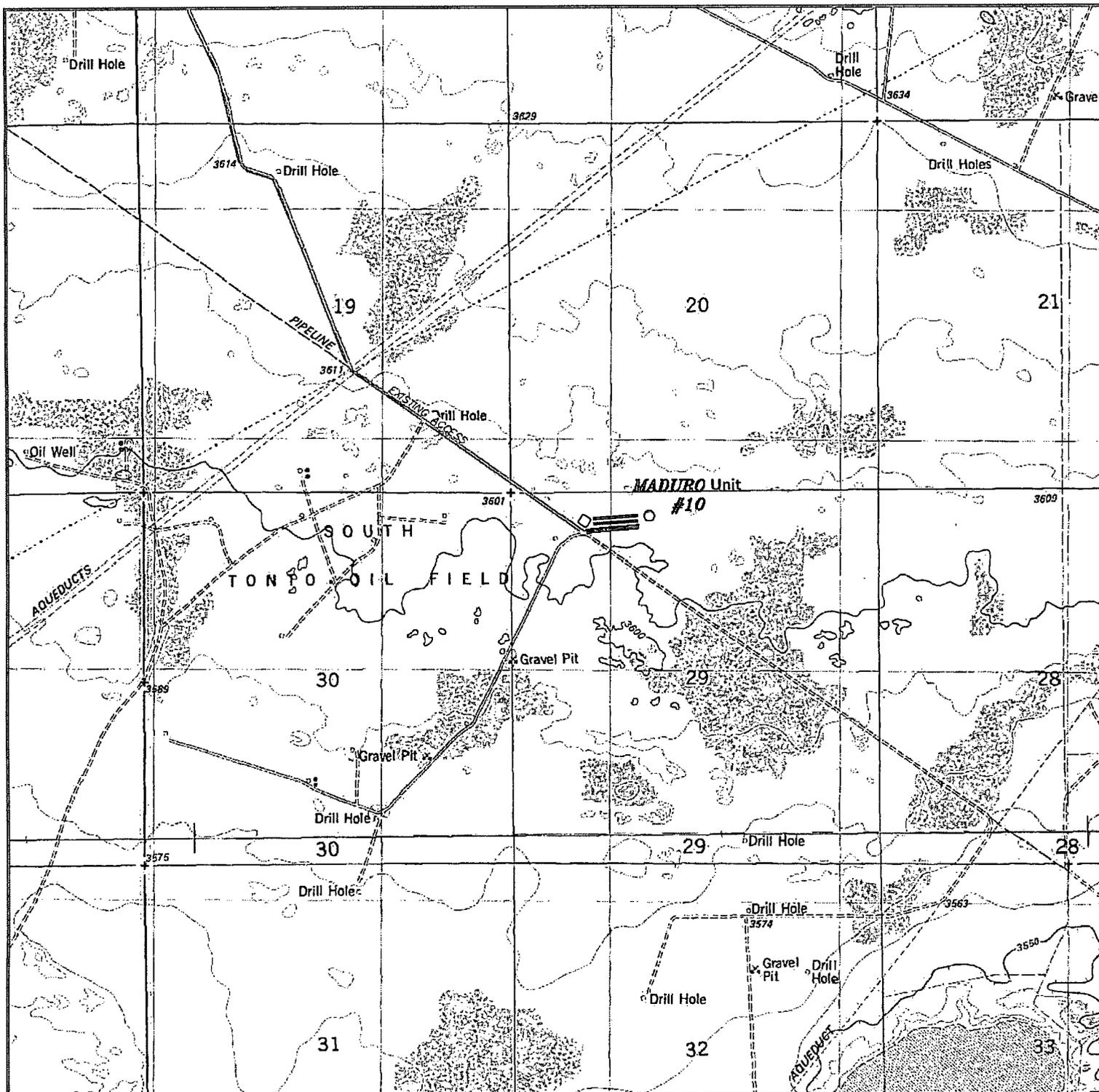
Survey Date: 12-22-2010

Sheet 1 of 1 Sheets

Public Access Map
Maduro Unit No. 10H
Cimarex Energy Co. of Colorado
SHL 29-19S-33E; 330 FNL & 1980 FWL
BHL 32-19S-33E; 2310 FNL & 1980 FWL
Lea County, NM

Malamar Rd 20/31/3





MADURO Unit #10
 Located 330' FNL and 1980' FWL
 Section 29, Township 19 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.

- ◇ Battery
- Flowline
- E-Line



P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

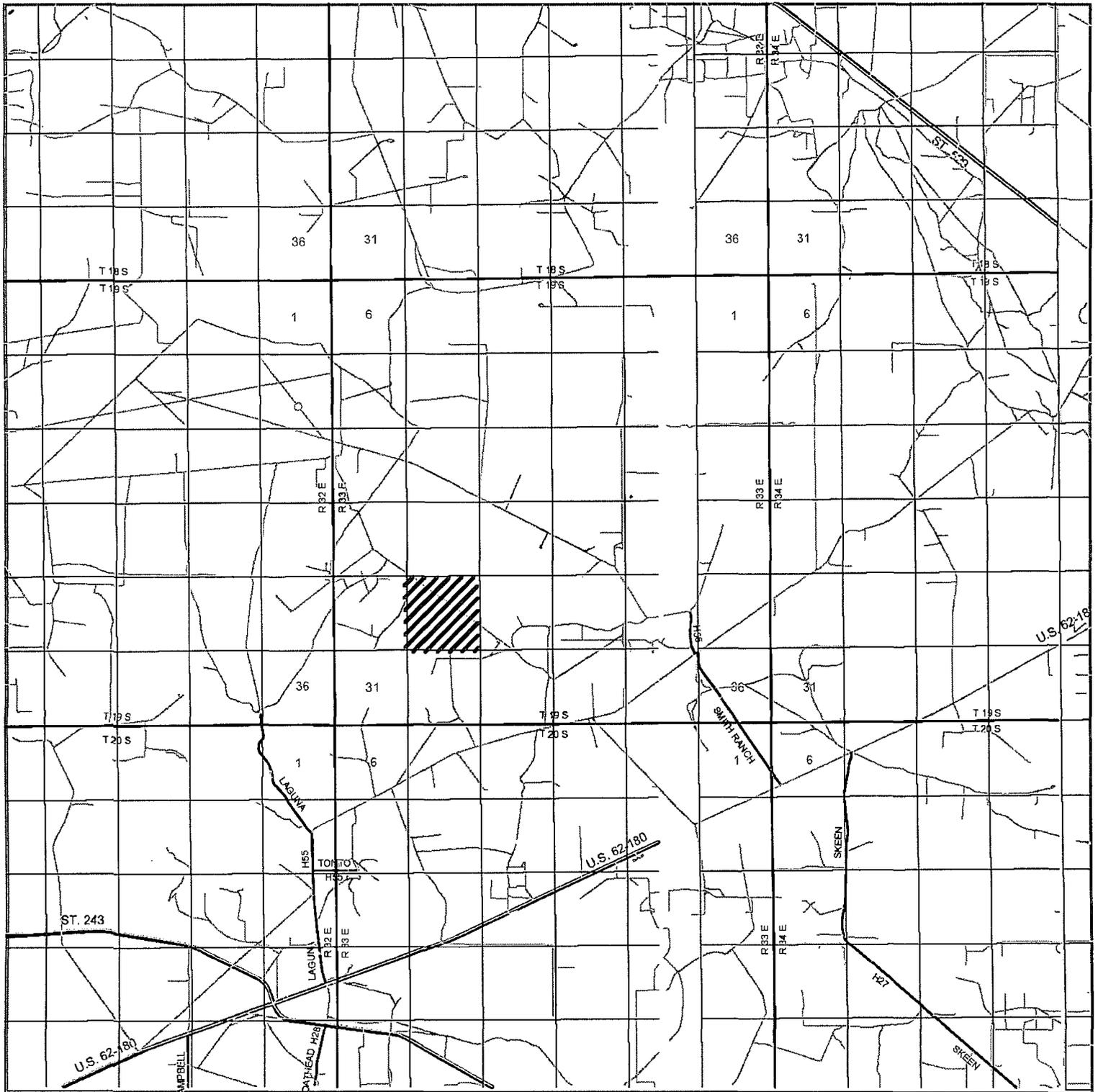
W.O. Number: BJN 23813

Survey Date: 12-22-2010

Scale: 1" = 2000'

Date: 12-29-2010

**CIMAREX
 ENERGY CO.
 OF COLORADO**



MADURO Unit #10
 Located 330' FNL and 1980' FWL
 Section 29, Township 19 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.



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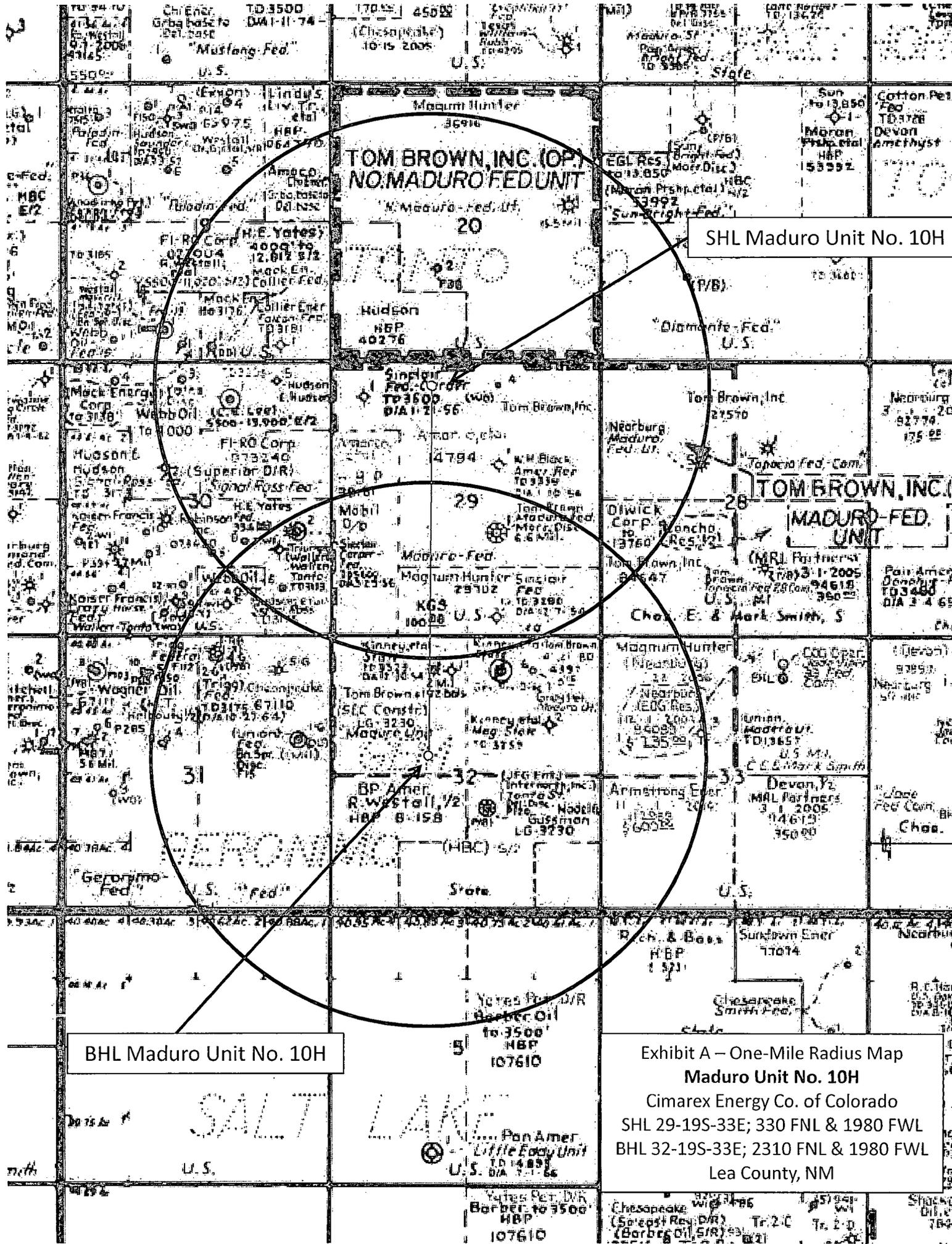
W.O. Number: BJN 23813

Survey Date: 12-22-2010

Scale: 1" = 2 Miles

Date: 12-29-2010

**CIMAREX
 ENERGY CO.
 OF COLORADO**



**TOM BROWN, INC. (OP)
NO. MADURO FED UNIT**

SHL Maduro Unit No. 10H

BHL Maduro Unit No. 10H

**Exhibit A - One-Mile Radius Map
Maduro Unit No. 10H**
Cimarex Energy Co. of Colorado
SHL 29-19S-33E; 330 FNL & 1980 FWL
BHL 32-19S-33E; 2310 FNL & 1980 FWL
Lea County, NM

SALT LAKE



Mason, Jennifer <jamason@blm.gov>

Maduro 10

1 message

Terri Stathem <TStathem@cimarex.com>

Fri, Dec 13, 2013 at 9:29 AM

To: "Mason, Jennifer" <jamason@blm.gov>

Here you go. I believe we will not be using a 5M on this well. The 3M below the Annular Preventer. Not sure if I have this right - and all the engineers are in a meeting. Let me know.

Terri Stathem
Manager - Regulatory Compliance
202 S. Cheyenne Ave, Suite 1000
Tulsa, OK 74103-3001

Direct 918-295-1763 (Tulsa) 432-620-1936 (Midland)
Cell 918-633-9702
Fax 918-749-8059

 **201312131032.pdf**
849K



Maduro Unit #10H

Terri Stathem <TStathem@cimarex.com>
 To: "Mason, Jennifer" <jamason@blm.gov>

Thu, Sep 12, 2013 at 1

Jennifer, Please see info below regarding the casing for the above well. Please let me know if you have any questions.

8. Casing Program:

Name	Casing Depth From (ft)	Casing Setting Depth (ft) MD	Casing Setting Depth (ft) TVD	Open Hole Size (inches)	Casing Size (inches)	Casing Weight (lb/ft)	Casing Grade	Thread	Condition	BHP (psig)	Anticipated Mud Weight (ppg)	Collapse SF at Full Evacuation (1.125)	Collapse SF at 1/3 Evacuation (1.125)	Burst SF (1.125)	Cumulative Air Weight	Cumulative Buoyed Weight (lbs)	Buyout Tension SF (1.8)
Surface	0	1350	1350	20	16"	84.00	J-55	BT&C	New	607	8.4	2.39		4.91	113,400	98,857	13.41
Intermediate	0	4350	4350	14 3/4	11-3/4"	54.00	J-55	ST&C	New	1260	10.0		1.42	2.83	151,200	128,116	4.43
Intermediate 2	0	5450	5450	10 5/8	8-5/8"	32.00	J-55	ST&C	New	2452	8.4		1.76	1.60	174,400	152,034	2.45
Production	0	9696	9696	8-7/8"	5-1/2"	17.00	P-110	LT&C	New	2277	9.0	1.65		4.67	168,300	145,175	3.07
Production	9696	17074	9900	8-7/8"	5-1/2"	17.00	P-110	BT&C	New	4455	9.0	1.61		2.39	3,468	2,991	182.52

alteration talked w/Terri

e-mail confirmation SAM 9/12/13

Terri Stathem

Manager - Regulatory Compliance

202 S. Cheyenne Ave, Suite 1000

Tulsa, OK 74103-3001

Direct 918-295-1763 (Tulsa) 432-620-1936 (Midland)

Cell 918-633-9702

Fax 918-749-8059

