

HOBBS OCD 30-025-41240
JUN 25 2013
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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. 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 State Hwy 128 and Battle Axe Rd, go southwest on lease road 13.2 miles to lease road, then west on lease road for 2.3 miles, then on lease road go north 3.2 miles turning west 0.5 miles to proposed location.

2. **Planned Access Roads:** No new access road planned.

3. **Planned Electric Line:** Approximately 40' of 480 volt, 4 wire, 3 phase, 1 span of 40' poles, raptor spec E-line will be constructed to connect to existing e-line along access road to the Cascade 29 Federal #1H 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 Cascade 29 Federal #1H wellsite will be used and the necessary production equipment will be installed. Construct & install two 4" buried HP poly lines, approximately 1555' each, down existing lease road to carry oil, gas, & water to the Cascade 29 Federal #1H battery. Gas lift will be provided by HP poly line buried in the same trench along access road, approximately 1555', to the Cascade 29 Federal #1H 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.

JUN 27 2013

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 recountoured 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 August 4, 2011, A BLM onsite meeting was held with Barry Hunt, Cimarex representative, Trish Badbear with the BLM, and Basin Surveys. The permitted location was approved, with V-door east and top soil north. Interim reclamation east, north, and west. Access road from southeast corner to the east.

Operator Certification Statement

Cascade 29 Federal 2H

Cimarex Energy Co.

UL C - Sec 29-25S-33E

Lea County, NM

Operator's Representative

Cimarex Energy Co. of Colorado

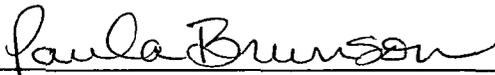
600 N. Marienfeld St., Ste. 600

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 6th day of February, 2013

NAME: 
Paula Brunson

TITLE: Regulatory Analyst

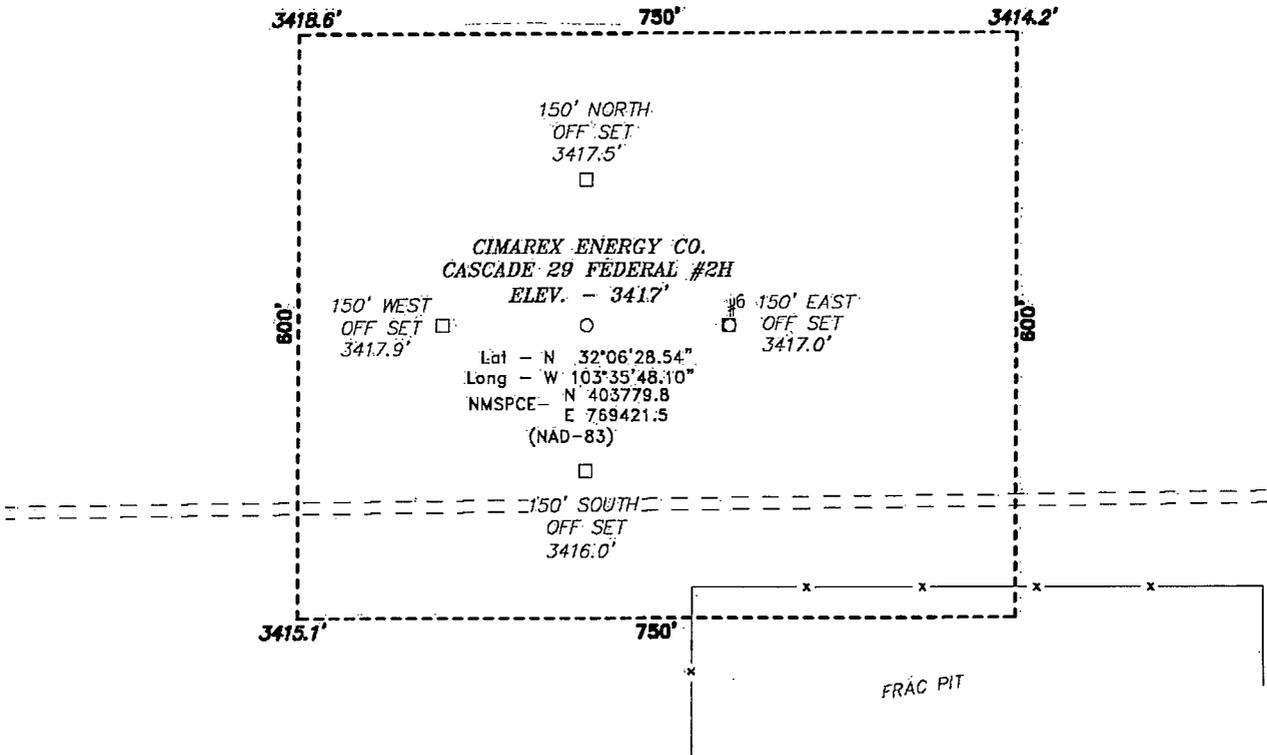
ADDRESS: 600 N. Marienfeld St., Ste. 600
Midland, TX 79701

TELEPHONE: 432-571-7848

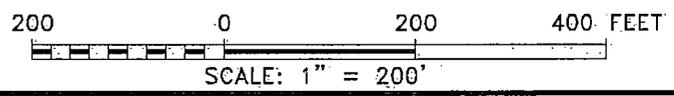
EMAIL: pbrunson@cimarex.com

Field Representative: Same as above

SECTION 29, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



CIMAREX ENERGY CO.
CASCADE 29 FEDERAL #2H
ELEV. - 3417'
Lat - N 32°06'28.54"
Long - W 103°35'48.10"
NMSPCE - N 403779.8
E 769421.5
(NAD-83)



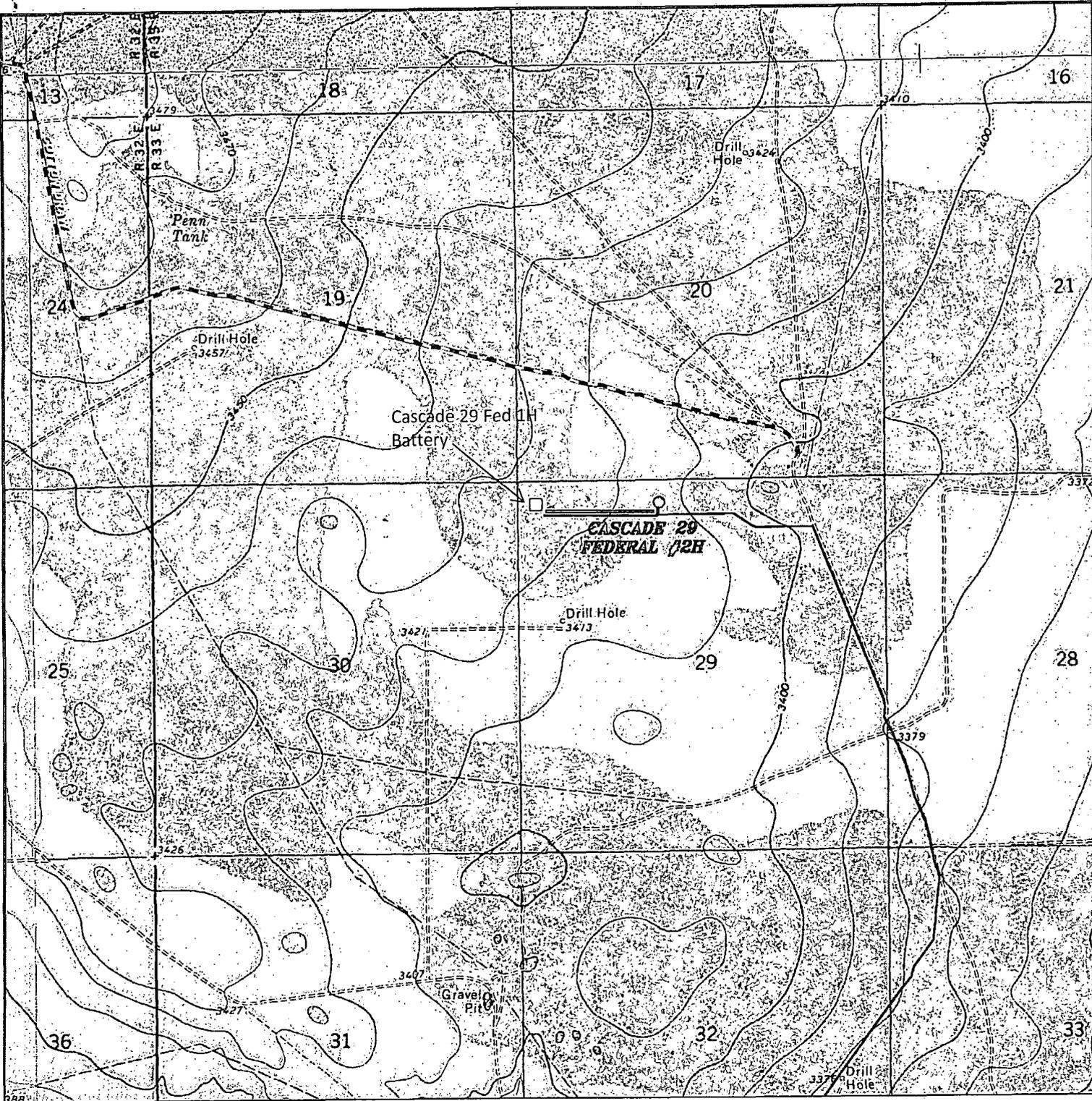
Directions to Location:

FROM THE JUNCTION OF STATE 128 AND BATTLE AXE RD, GO SOUTHWEST ON LEASE ROAD 13.2 MILES TO LEASE ROAD, THEN WEST ON LEASE ROAD FOR 2.3 MILES, THEN ON LEASE ROAD GO NORTH 3.2 MILES TURNING WEST 0.5 MILES TO PROPOSED LOCATION.

CIMAREX ENERGY CO.	
REF: CASCADE 29 FEDERAL #2H / WELL PAD TOPO	
THE CASCADE 29 FEDERAL #2H LOCATED 330'	
FROM THE NORTH LINE AND 1905' FROM THE WEST LINE OF	
SECTION 29, TOWNSHIP 25 SOUTH, RANGE 33 EAST,	
N.M.P.M., LEA COUNTY, NEW MEXICO.	
W.O. Number: 26256	Drawn By: J. SMALL
Date: 02-23-2012	Disk: JMS. 26256
Survey Date: 02-22-2012	Sheet 1 of 1 Sheets

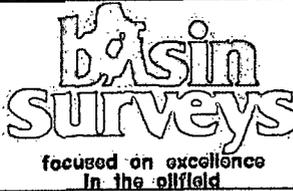
BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 26256 Drawn By: J. SMALL
Date: 02-23-2012 Disk: JMS. 26256



CASCADE 29 FEDERAL #2H
 Located 330' FNL and 1905' FWL
 Section 29, Township 25 South, Range 33 East,
 N.M.P.M., Lea County, New Mexico.

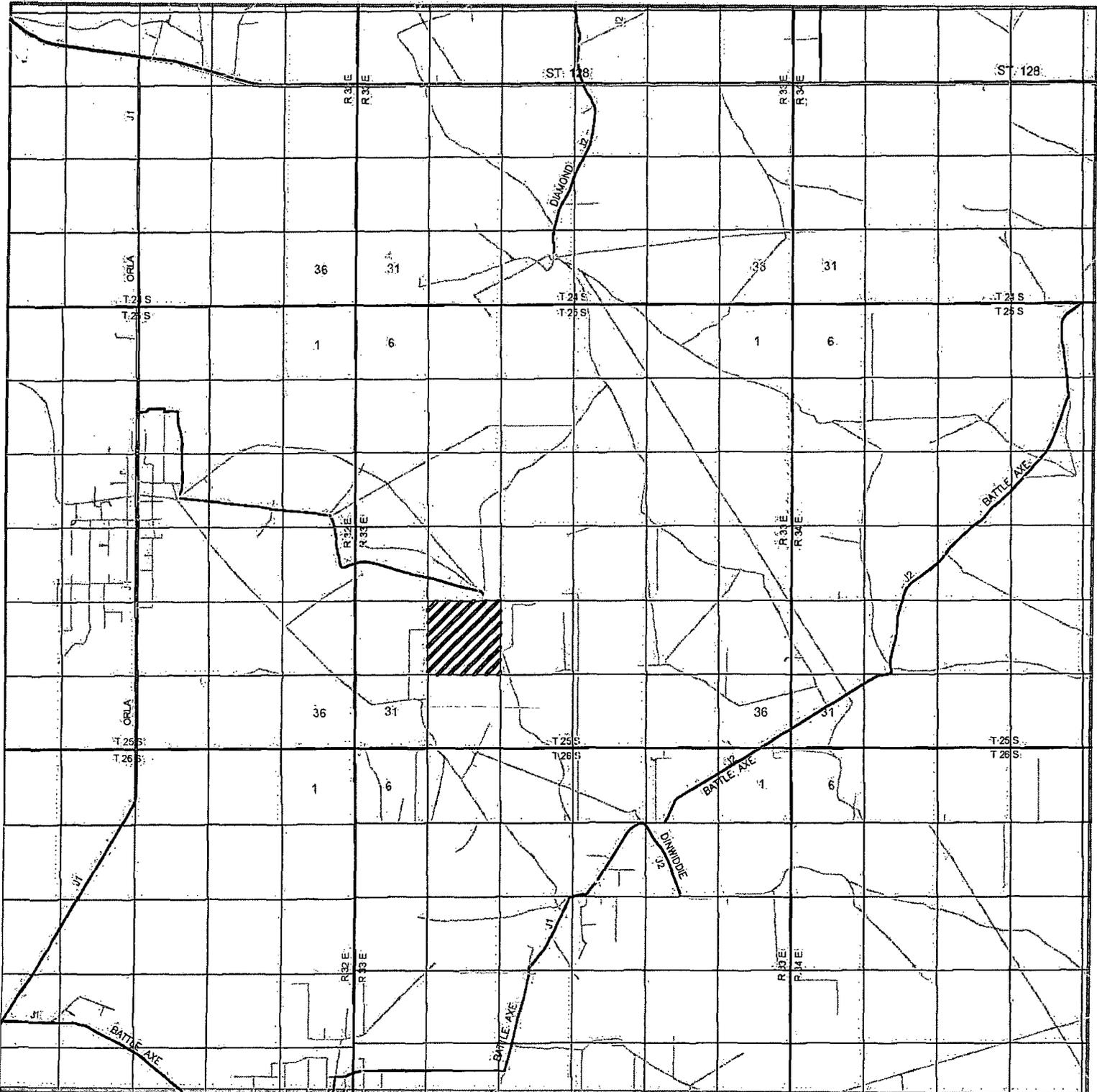
- Battery
- Flowline
- E-Line



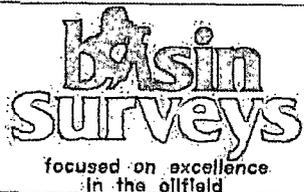
P.O. Box 1786
 1120 N. West County Rd.
 Hobbs, New Mexico 88241
 (575) 393-7316 - Office
 (575) 392-2206 - Fax
 basinsurveys.com

W.O. Number: JMS 26256
 Survey Date: 02-22-2012
 Scale: 1" = 2000'
 Date: 02-23-2012

**CIMAREX
 ENERGY CO.**



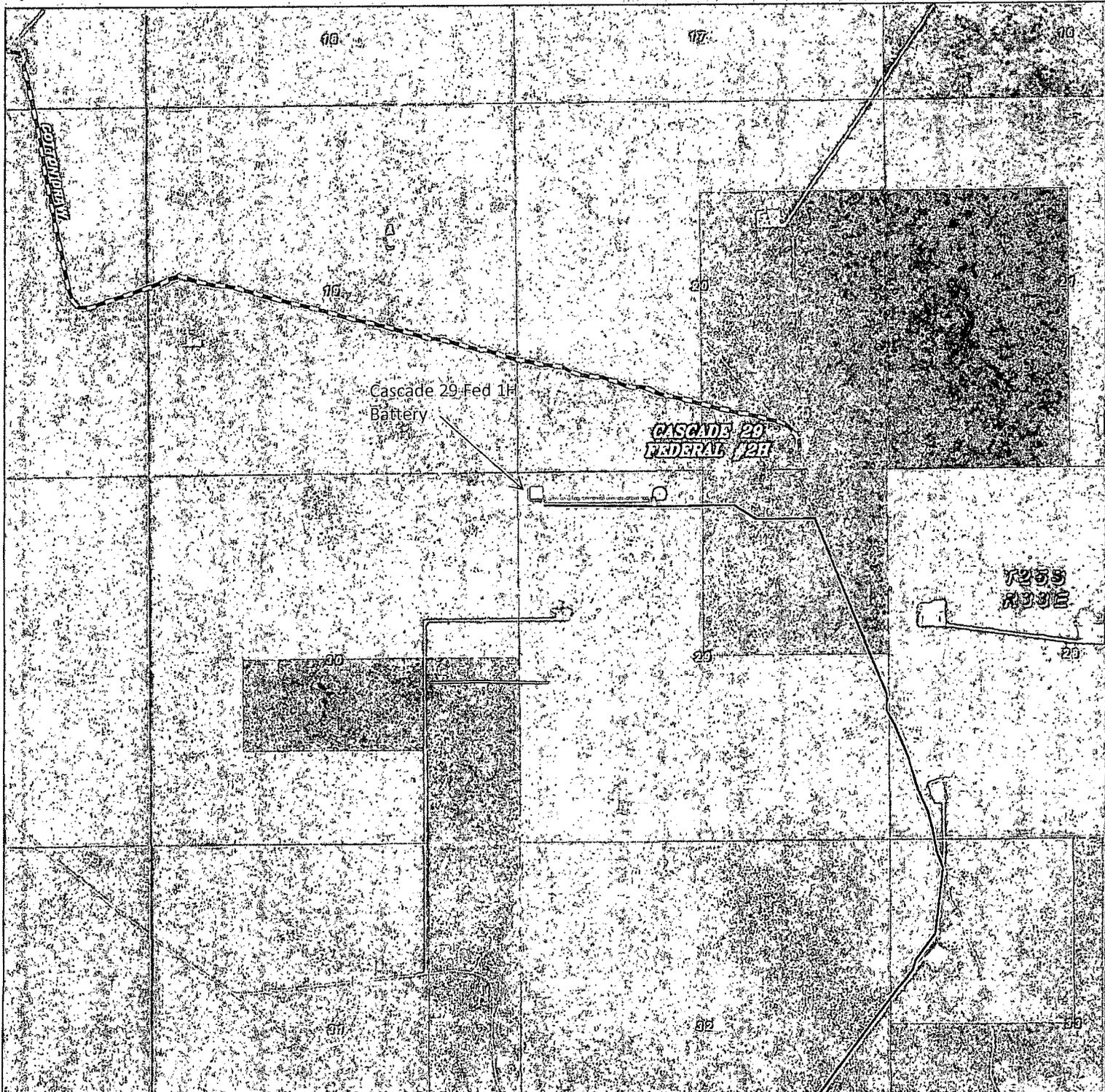
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 N.M.P.M., Lea County, New Mexico.



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W.O. Number: JMS 26256
 Survey Date: 02-22-2012
 Scale: 1" = 2 Miles
 Date: 02-23-2012

**CIMAREX
 ENERGY CO.**



CASCADE 29 FEDERAL #2H

Located 330' FNL and 1905' FWL

Section 29, Township 25 South, Range 33 East,
N.M.P.M., Lea County, New Mexico.

- Battery
- Flowline
- E-Line

basin
surveys
focused on excellence
in the oilfield

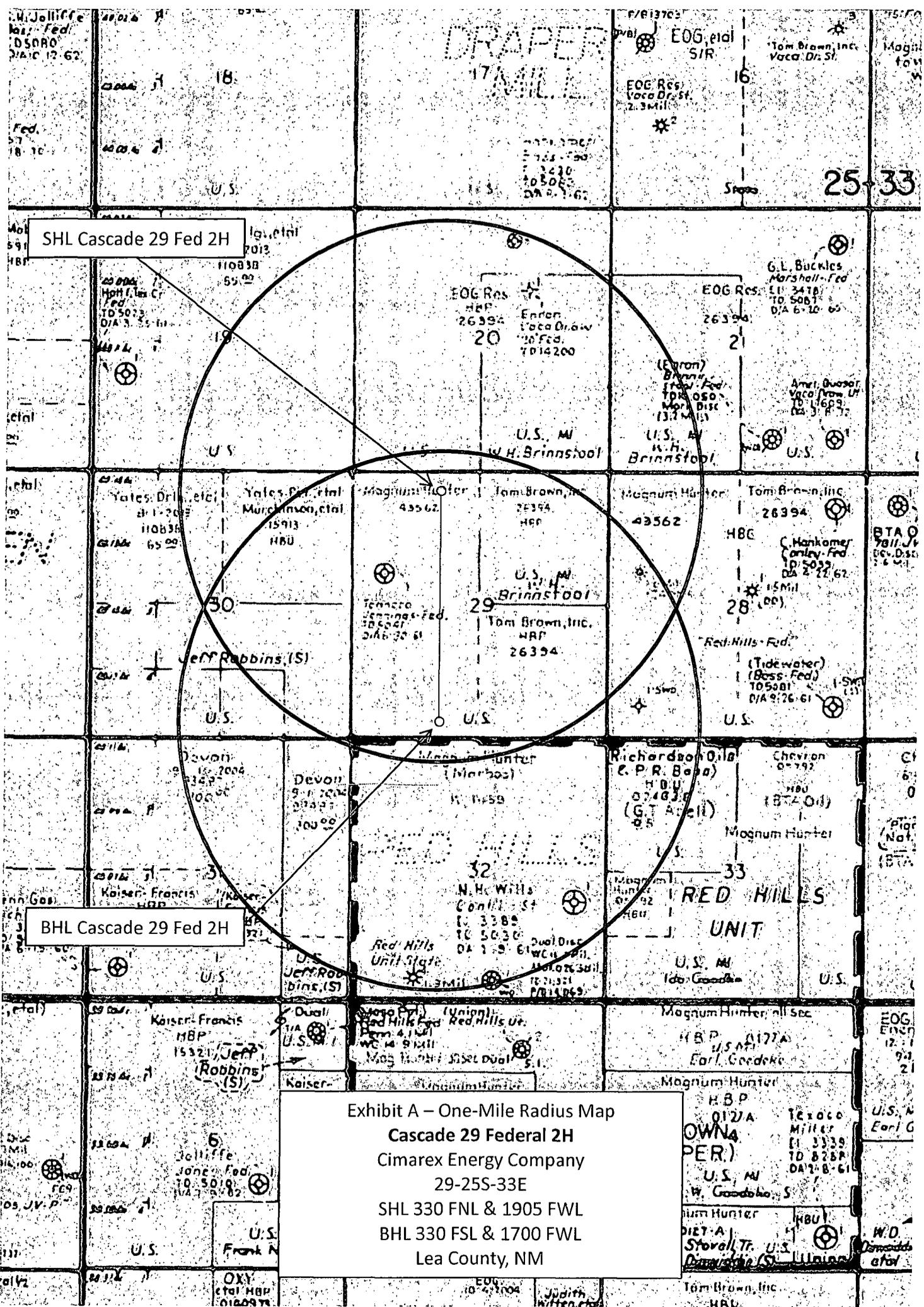
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W.O. Number: JMS 26256

Scale: 1" = 2000'

YELLOW TINT - USA LAND
BLUE TINT - STATE LAND
NATURAL COLOR - FEE LAND

CIMAREX
ENERGY CO.



SHL Cascade 29 Fed 2H

BHL Cascade 29 Fed 2H

Exhibit A – One-Mile Radius Map
 Cascade 29 Federal 2H
 Cimarex Energy Company
 29-255-33E
 SHL 330 FNL & 1905 FWL
 BHL 330 FSL & 1700 FWL
 Lea County, NM

DRAPER
 17 MILL

EOG, et al
 SIR

Tom Brown, Inc.
 Vaca. Dr. St.

EOG Res.
 Vaca Dr. St.
 2.3 Mil

25-33

110838
 69.09

EOG Res.
 HBP
 26394
 20
 Enron
 Vaca Draw
 20 Fed.
 7014200

EOG Res.
 26394
 21

G.L. Buckles
 Marshall - Fed
 E1 3478
 TO 5061
 O/A 6-10-65

(Enron)
 Brown
 Fed.
 TO 5060
 Mar. Disc
 (3.2 Mil)

Amr. Quasar
 Vaca (from UP
 TO 1669
 O/A 3-8-72

U.S. M
 W.H. Brinnstool

U.S. M
 W.H. Brinnstool

U.S.

Yates Dr. et al
 110838
 65.09

Yates Dr. et al
 Murphinson, et al
 15913
 HBU

Magnum Hunter
 43562

Tom Brown, Inc.
 26394
 HBP

Magnum Hunter
 43562

Tom Brown, Inc.
 26394

BTA O
 7011 J
 Sec. Dist
 2 U.S.

Jeff Robbins (IS)

Tenneco
 Jennings - Fed.
 TO 5061
 O/A 30-61

U.S. M
 W.H. Brinnstool
 Tom Brown, Inc.
 HBP
 26394

28

Red Hills - Fed.

(Tide water)
 (Boss - Fed.)
 TO 5081
 O/A 9-26-61

Devon
 9-1-2004
 100.00

Devon
 9-1-2004
 100.00

Magnum Hunter
 (Marbois)
 W.H. Brinnstool

Richardson Oil
 E. P. R. Baba
 HBU
 O/A 8-2-61
 (G.T. Adell)
 25

Chevron
 0-7-92
 HBU
 (BTA Oil)

Kaiser - Francis
 HBP

Jeff Robbins (IS)

Red Hills
 Unit State
 3.3 Mil

N.H. Wills
 Conl...
 E. 3380
 TO 5030
 O/A 1-5-61
 Dual Disc
 Mar. 26-30-61
 TO 21321
 O/A 1-5-61

Magnum Hunter
 0-7-92
 HBU
 (G.T. Adell)
 25

RED HILLS
 UNIT

U.S. M
 Tom Goodwin

BHL Cascade 29 Fed 2H

Exhibit A – One-Mile Radius Map
 Cascade 29 Federal 2H
 Cimarex Energy Company
 29-255-33E
 SHL 330 FNL & 1905 FWL
 BHL 330 FSL & 1700 FWL
 Lea County, NM

Kaiser - Francis
 HBP
 15321
 Jeff Robbins (IS)

Jeff Robbins (IS)

Magnum Hunter
 3380
 TO 5030
 O/A 1-5-61
 Dual Disc
 Mar. 26-30-61
 TO 21321
 O/A 1-5-61

Magnum Hunter, all sec
 HBP
 O127A
 U.S. M
 Earl Goedeke

Magnum Hunter
 HBP
 O127A

OWNERS
 PER)

U.S. M
 W. Goodwin

Texaco
 Miller
 E1 3339
 TO 878P
 O/A 2-8-61

Jelliffe
 Jones - Fed.
 TO 5019
 O/A 3-5-62

U.S.
 Frank N

Magnum Hunter

DIET-A
 Stovall, Tr. U.S.
 Dimaschia (S)

HBU
 Union

Tom Brown, Inc.
 HBU

W.D.
 Demaschia
 et al