

30-025-42369

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H2S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Principal and operation of H₂S detectors, warning system and briefing areas.
 - D. Evacuation procedure, routes and first aid.
 - E. Proper use of safety equipment & life support systems
 - F. Essential personnel meeting Medical Evaluation criteria will receive additional training on the proper use of 30 minute pressure demand air packs.
- 2 H₂S Detection and Alarm Systems:
 - A. H₂S sensors/detectors to be located on the drilling rig floor, in the base of the sub structure/cellar area, on the mud pits in the shale shaker area. Additional H₂S detectors may play placed as deemed necessary.
 - B. An audio alarm system will be installed on the derrick floor and in the top doghouse.
- 3 Windsock and/or wind streamers:
 - A. Windsock at mudpit area should be high enough to be visible.
 - B. Windsock on the rig floor and / or top doghouse should be high enough to be visible.
- 4 Condition Flags and Signs
 - A. Warning sign on access road to location.
 - B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only H₂S trained and certified personnel admitted to location.
- 5 Well control equipment:
 - A. See exhibit "E-1"
- 6 Communication:
 - A. While working under masks chalkboards will be used for communication.
 - B. Hand signals will be used where chalk board is inappropriate.
 - C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.
- 7 Drillstem Testing:

No DSTs r cores are planned at this time.
- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H₂S scavengers if necessary.

H₂S Contingency Plan
Cascade 28 Federal 1H
Cimarex Energy Co.
UL: D, Sec. 28, 25S, 33E
Lea Co., NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- « Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- « Evacuate any public places encompassed by the 100 ppm ROE.
- « Be equipped with H₂S monitors and air packs in order to control the release.
- « Use the "buddy system" to ensure no injuries occur during the response.
- « Take precautions to avoid personal injury during this operation.
- « Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- « Have received training in the:
 - Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

Please see attached International Chemical Safety Cards.

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts

Cascade 28 Federal 1H

Cimarex Energy Co.

UL: D, Sec. 28, 25S, 33E

Lea Co., NM

Company Office

Cimarex Energy Co. of Colorado	800-969-4789
Co. Office and After-Hours Menu	

Key Personnel

Name	Title	Office	Mobile
Larry Seigrist	Drilling Manager	432-620-1934	580-243-8485
Doug McQuitty	Drilling Superintendent	432-620-1933	806-640-2605
Scott Lucas	Drilling Superintendent	432-620-1989	432-894-5572
Roy Shirley	Construction Superintendent		432-634-2136

Artesia

Ambulance	911
State Police	575-746-2703
City Police	575-746-2703
Sheriff's Office	575-746-9888
Fire Department	575-746-2701
Local Emergency Planning Committee	575-746-2122
New Mexico Oil Conservation Division	575-748-1283

Carlsbad

Ambulance	911
State Police	575-885-3137
City Police	575-885-2111
Sheriff's Office	575-887-7551
Fire Department	575-887-3798
Local Emergency Planning Committee	575-887-6544
US Bureau of Land Management	575-887-6544

Santa Fe

New Mexico Emergency Response Commission (Santa Fe)	505-476-9600
New Mexico Emergency Response Commission (Santa Fe) 24 Hrs	505-827-9126
New Mexico State Emergency Operations Center	505-476-9635

National

National Emergency Response Center (Washington, D.C.)	800-424-8802
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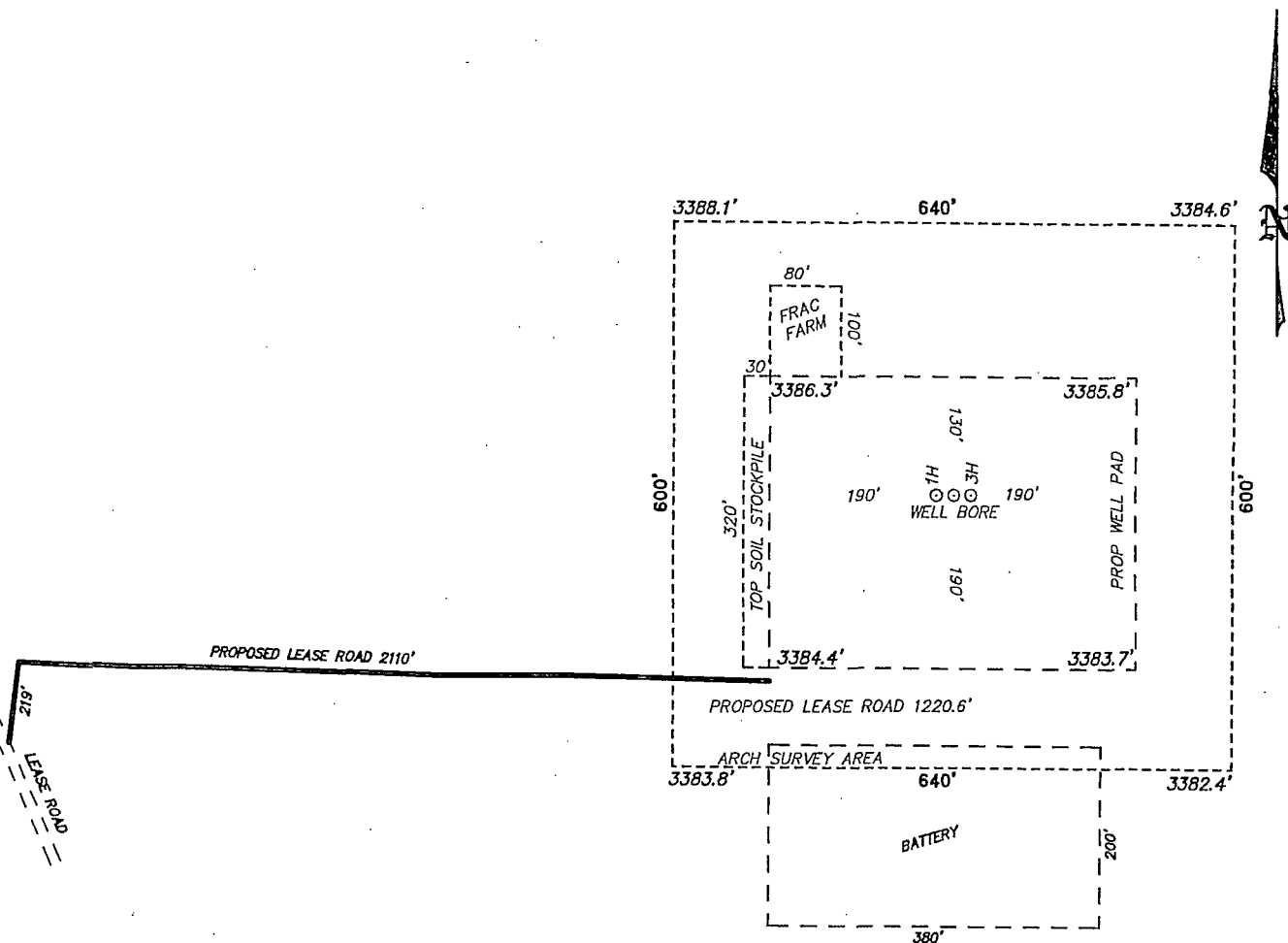
Medical

Flight for Life - 4000 24th St.; Lubbock, TX	806-743-9911
Aerocare - R3, Box 49F; Lubbock, TX	806-747-8923
Med Flight Air Amb - 2301 Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433
SB Air Med Service - 2505 Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949

Other

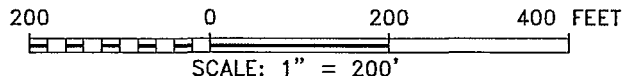
Boots & Coots IWC	800-256-9688	or	281-931-8884
Cudd Pressure Control	432-699-0139	or	432-563-3356
Halliburton	575-746-2757		
B.J. Services	575-746-3569		

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



CIMAREX ENERGY CO.
CASCADE 28 FEDERAL 2H
ELEV. - 3385
 Lat - N 32°06'28.46"
 Long - W 103°34'53.31"
 NMSPCE- N 403804.0
 E 774134.6
 (NAD-83)

JAL, NM IS ±23 MILES TO THE EAST OF LOCATION.



Directions to Location:

FROM THE JUNCTION OF ORLA AND COTTON DRAW,
 TAKE COTTON DRAW EAST TO DEAD END, CONTINUE
 SOUTH ON LEASE ROAD, AND TURN EAST ON
 PROPOSED LEASE ROAD.

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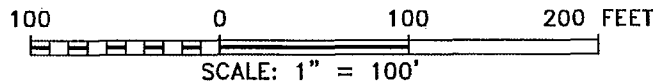
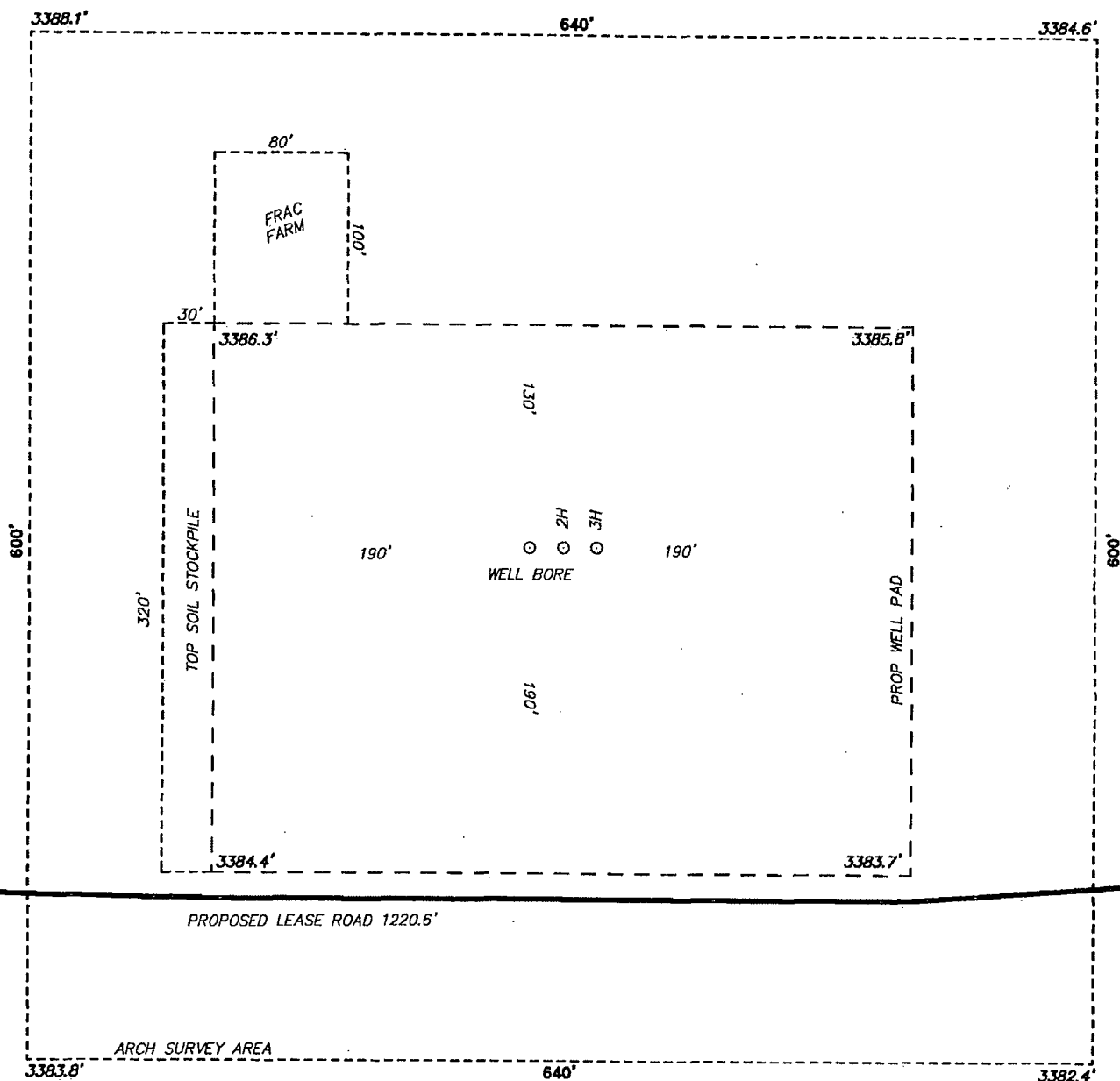
P.O. Box 1786 (575) 393-7316 - Office
 1120 N. West County Rd. (575) 392-2206 - Fax
 Hobbs, New Mexico 88241 basin-surveys.com

CIMAREX ENERGY CO.

REF: CASCADE 28 FEDERAL 2H / WELL PAD TOPO

THE CASCADE 28 FEDERAL 2H LOCATED 330' FROM
 THE NORTH LINE AND 1330' FROM THE WEST LINE OF
 SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST,
 N.M.P.M., LEA COUNTY, NEW MEXICO.

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



CIMAREX ENERGY CO.

REF: CASCADE 28 FEDERAL 1H / WELL PAD TOPO

THE CASCADE 28 FEDERAL 1H LOCATED 330' FROM
THE NORTH LINE AND 1310' FROM THE WEST LINE OF
SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

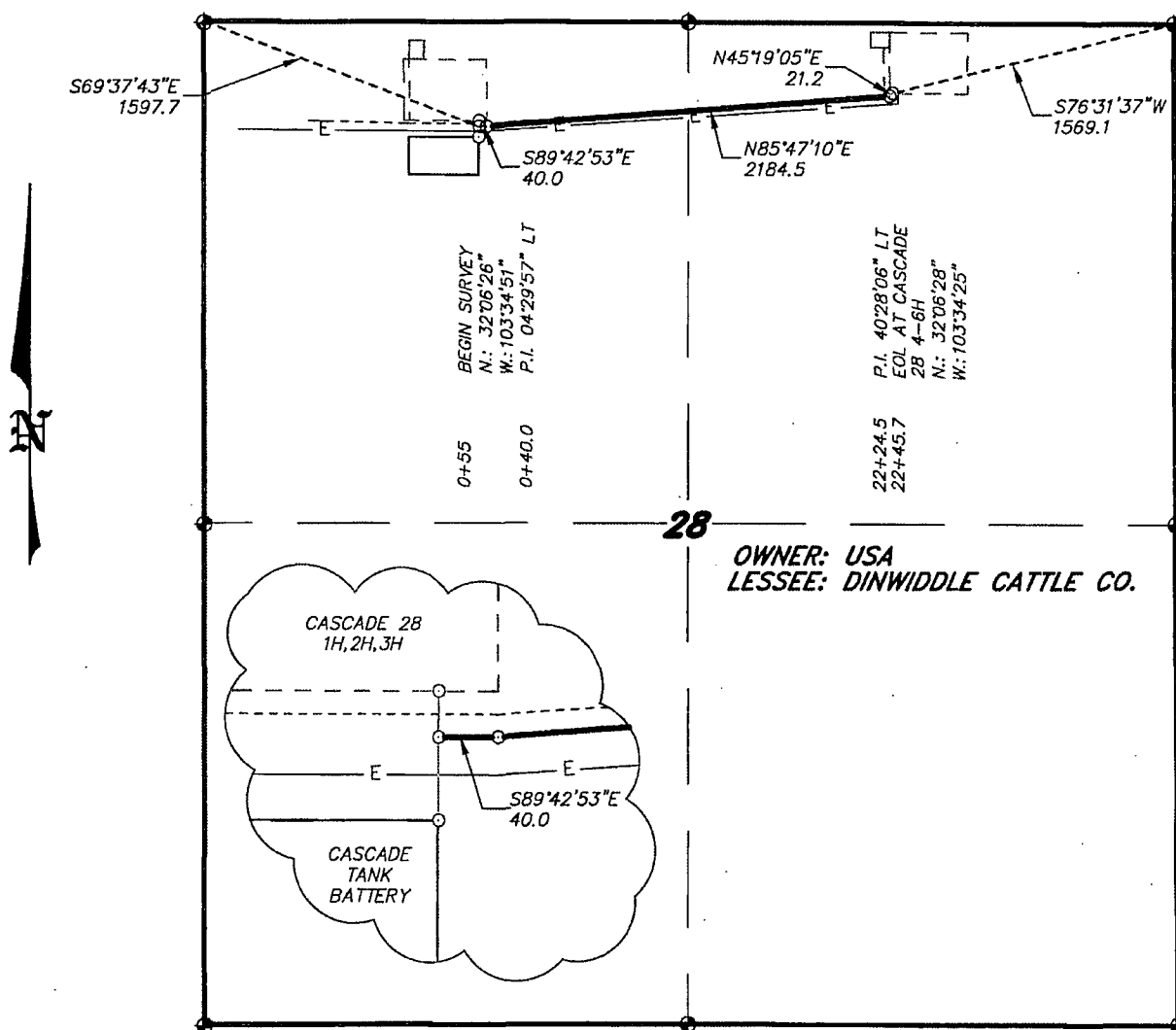
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W.O. Number: 29690 | Drawn By: K. NORRIS | Date: 12-30-2013 | Survey Date: 12-11-2013 | Sheet 1 of 1 Sheets

Exhibit D-2

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



OWNER: USA
LESSEE: DINWIDDLE CATTLE CO.

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 28 = 2245.7 FEET = 136.10 RODS = 0.42 MILES = 1.55 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES

No. 7977
No. 5074

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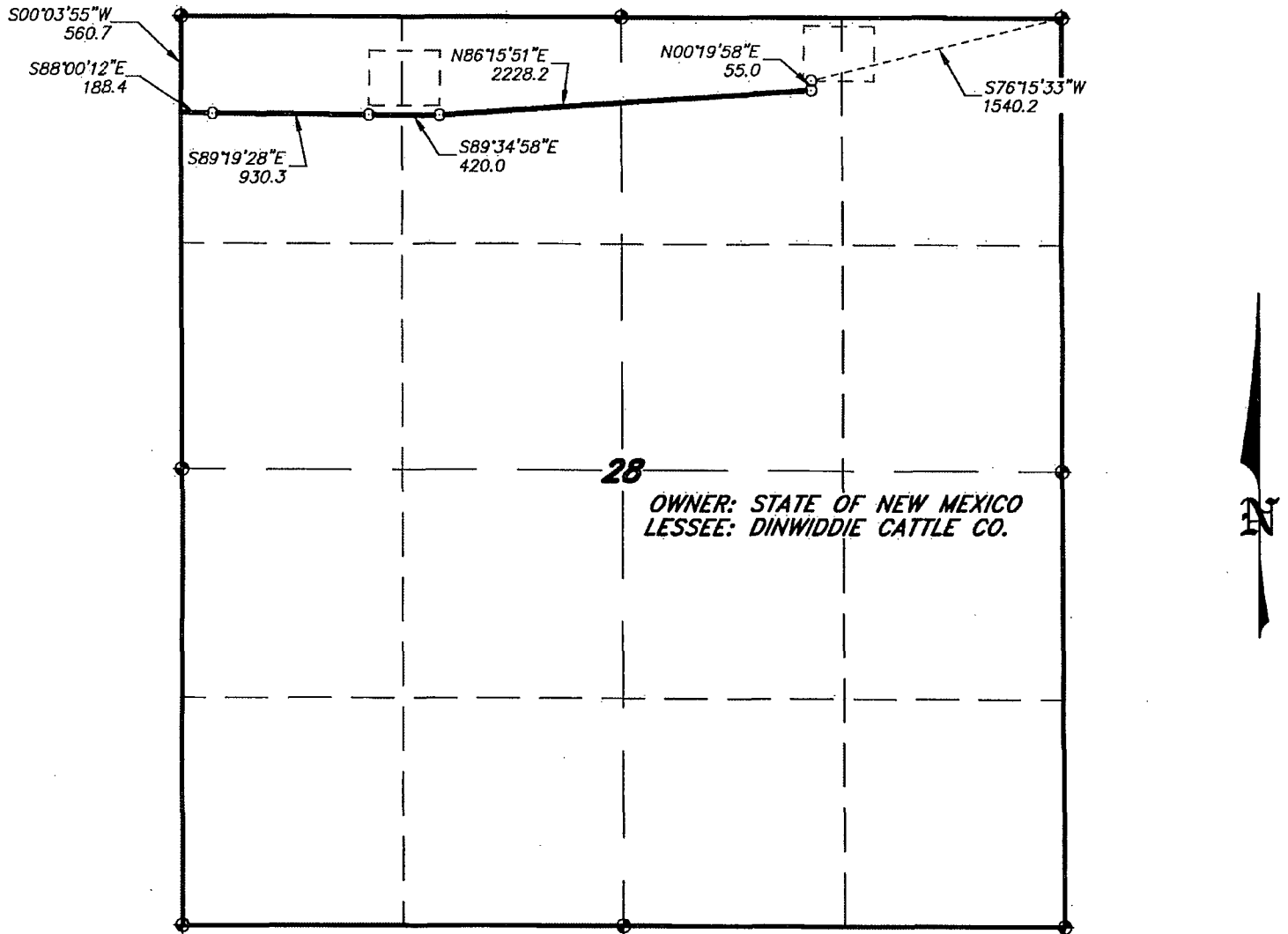
1000 0 1000 2000 FEET

CIMAREX ENERGY CO.

REF: PROPOSED CASCADE TANK BATTERY PIPELINE ROW

A TRACT OF LAND LOCATED ON USA LAND IN
SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

**SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.**



LEGAL DESCRIPTION

AN ELECTRIC LINE LOCATED IN SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT WHICH LIES S.00°03'55"W., 560.7 FEET FROM THE NORTHWEST OF SAID SECTION 28; THENCE S.88°00'12"E., 188.4 FEET; 930.3 FEET; THENCE S.89°34'58"E., 420.0 FEET; THENCE N.86°15'51"E., 2228.2 FEET; THENCE N.00°19'58"E., 55.0 FEET TO THE END OF THIS LINE WHICH LIES S.76°15'33"W., 1540.2 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 28. SAID STRIP OF LAND BEING 3821.9' FEET OR 231.63 RODS IN LENGTH AND CONTAINING 2.63 ACRES, MORE OR LESS, AND BEING ALLOCATED BY FORTIES IN SAID SECTION 28 AS FOLLOWS:

NW/4 NW/4 = 75.45 RODS = 0.86 ACRES NE/4 NW/4 = 79.82 RODS = 0.91 ACRES

NW/4 NE/4 = 72.11 RODS OR 0.82 ACRES

I HEREBY CERTIFY THAT THIS MAP WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES

No. 7977

No. 5074

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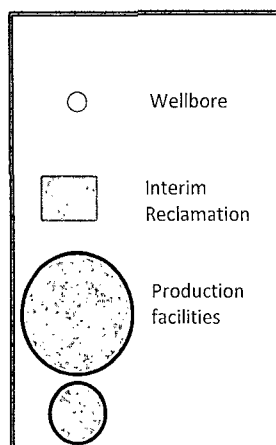
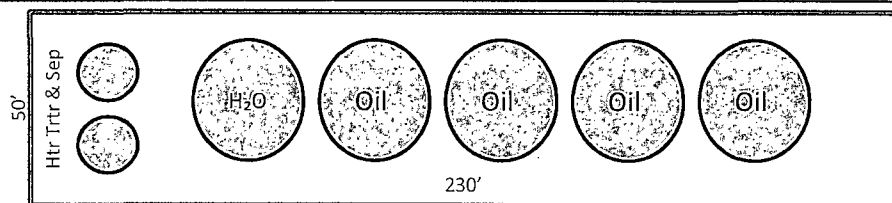
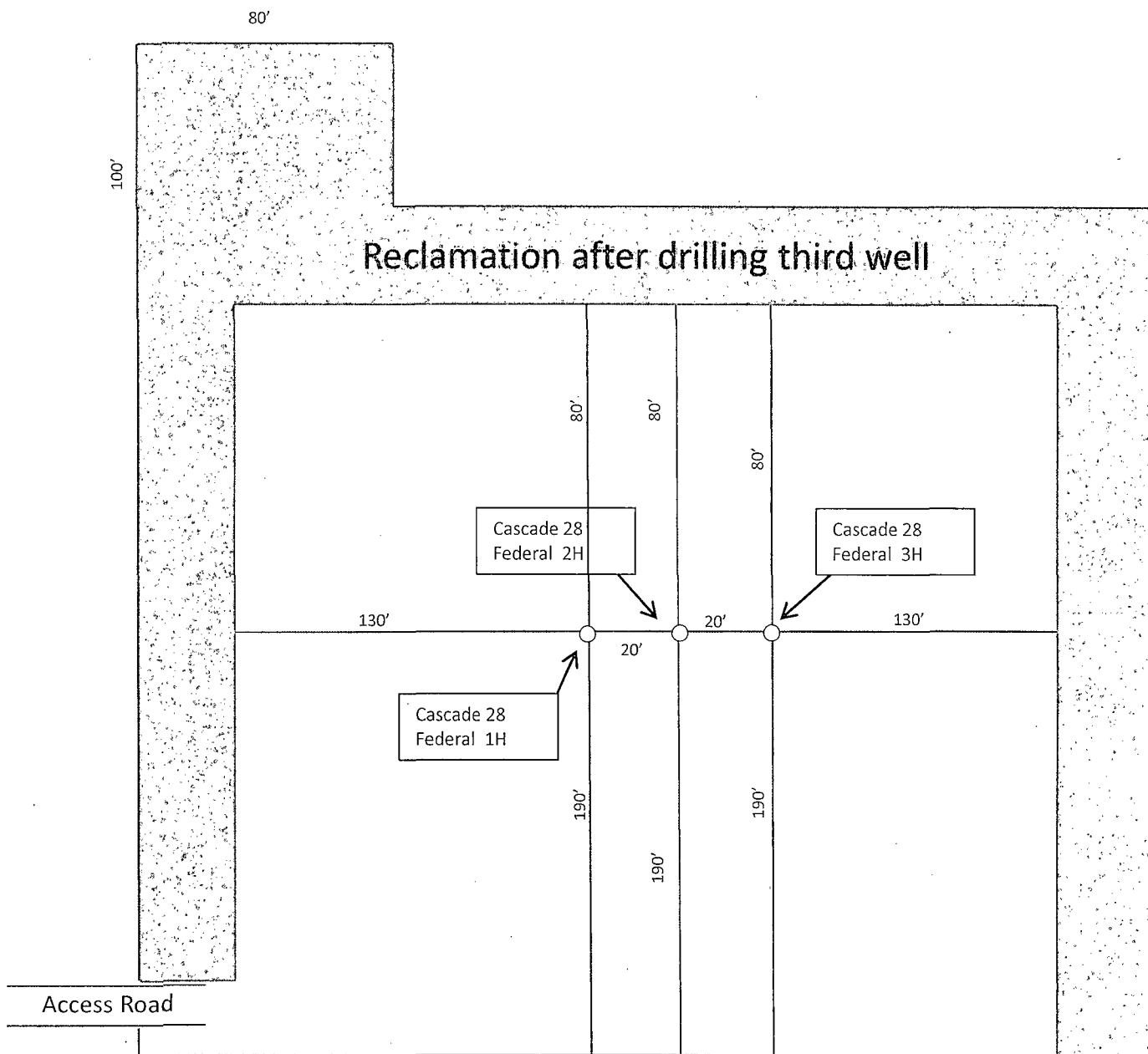
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(575) 392-2206 - Fax
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1000 0 1000 2000 FEET

CIMAREX ENERGY CO.

REF: PROPOSED CASCADE ELECTRIC LINE

AN ELECTRIC LINE LOCATED ON STATE LAND IN
SECTION 28, TOWNSHIP 25 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

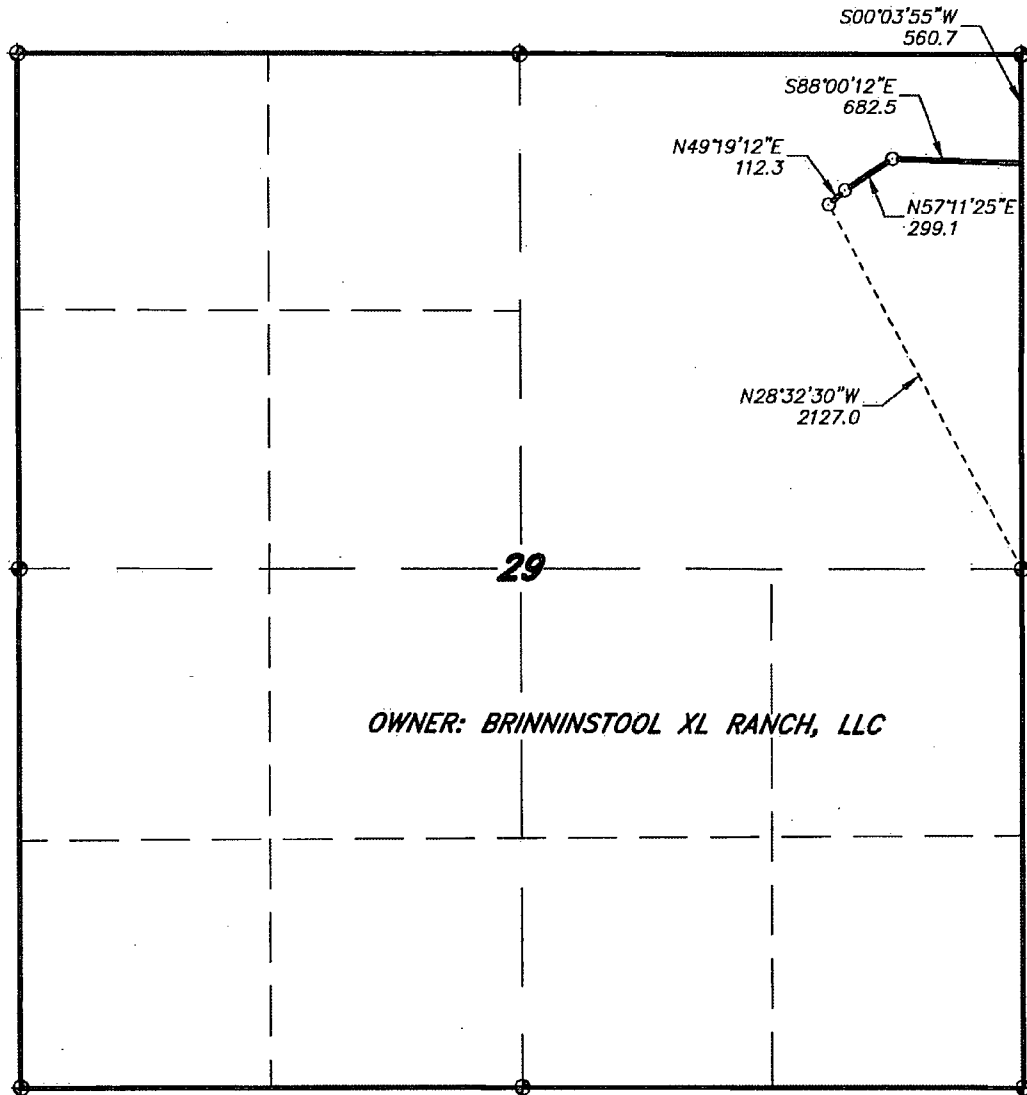


N



Exhibit D-1
Interim Reclamation Diagram
Cascade 28 Federal 1H
Cimarex Energy Co.
28-25S-33E
SHL 330 FNL & 1310 FWL
BHL 330 FSL & 440 FWL
Lea County, NM

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



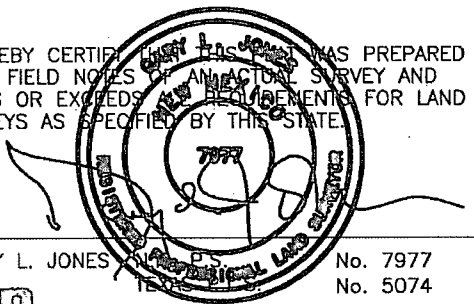
OWNER: BRINNINSTOOL XL RANCH, LLC

LEGAL DESCRIPTION

AN ELECTRIC LINE LOCATED IN SECTION 29, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT WHICH LIES N.28°32'30"W, 2127.0 FEET FROM THE EAST QUARTER SECTION OF SAID SECTION 29; THENCE N.49°19'12"E, 112.3 FEET; THENCE N.57°11'25"E, 299.1 FEET; THENCE S.88°00'12"E, 682.5 FEET TO A POINT ON THE EAST SECTION LINE WHICH LIES S.00°03'55"W, 560.7 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 29. SAID STRIP OF LAND BEING 1093.9' FEET OR 66.30 RODS IN LENGTH AND CONTAINING 0.75 ACRES, MORE OR LESS.

I HEREBY CERTIFY THAT THIS MAP WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ANY REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



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1000 0 1000 2000 FEET

CIMAREX ENERGY CO.

REF: PROPOSED CASCADE ELECTRIC LINE

AN ELECTRIC LINE LOCATED ON STATE LAND IN
SECTION 29, TOWNSHIP 25 SOUTH, RANGE 33 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.