

Surface Use Plan
Crescent Hale 12 Federal No. 1
Cimarex Energy Co. of Colorado
Unit D, Section 12
T19S-R30E, Eddy County, NM

30-015-39025

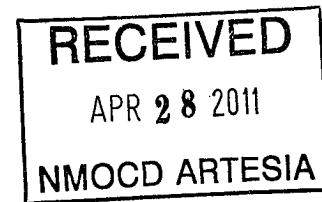
1. Existing Roads: Area maps, Exhibit "A" shows the proposed well site as staked. Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, and Exhibit "C-1" is a well site layout map, showing proposed road to location and existing road. Existing road shown on Exhibits "C," "C-1," "C-2," "C-3," and "C-4" 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 Shugart Rd and Grubbs Rd, go West on Grubbs Rd for 2.3 miles to lease road. On lease road, go South 3.0 miles, on lease road go South winding West for 0.2 miles, then North for 0.1 miles to proposed location.

2. Planned Access Roads: No new access roads to be built.

3. 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" and "A-1" |
| E. Abandoned wells - | As shown on Exhibits "A" and "A-1" |



4. Location of Proposed Production Facilities:

If on completion this well is a producer, a tank battery will be used and the necessary production equipment will be installed at the wellsite. See production facilities layout diagram. Any changes to the facilities or off-site facilities will be accompanied by a Sundry Notice. Electric service will be secured from a provider in the area, should it be required.

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. Methods of Handling Waste Material:

- A. Drill cuttings will be separated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically and hauled to a waste disposal facility. 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 the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

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8. Ancillary Facilities:

- A. No camps or airstrips to be constructed.

9. Well Site Layout:

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

10. 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 a 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.

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.

Operator Certification Statement
Crescent Hale 12 Federal No. 1
Cimarex Energy Co. of Colorado
Unit D, Section 12
T19S-R30E, Eddy County, NM

Operator's Representative

Cimarex Energy Co. of Colorado
600 N. Marienfeld St., Ste. 600
Midland, TX 79701
Office Phone: (432) 571-7800
Zeno Farris

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 December, 2010

NAME: 
Zeno Farris

TITLE: Regulatory Analyst

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

TELEPHONE: (432) 620-1936

EMAIL: nkrueger@cimarex.com

Field Representative: Same as above

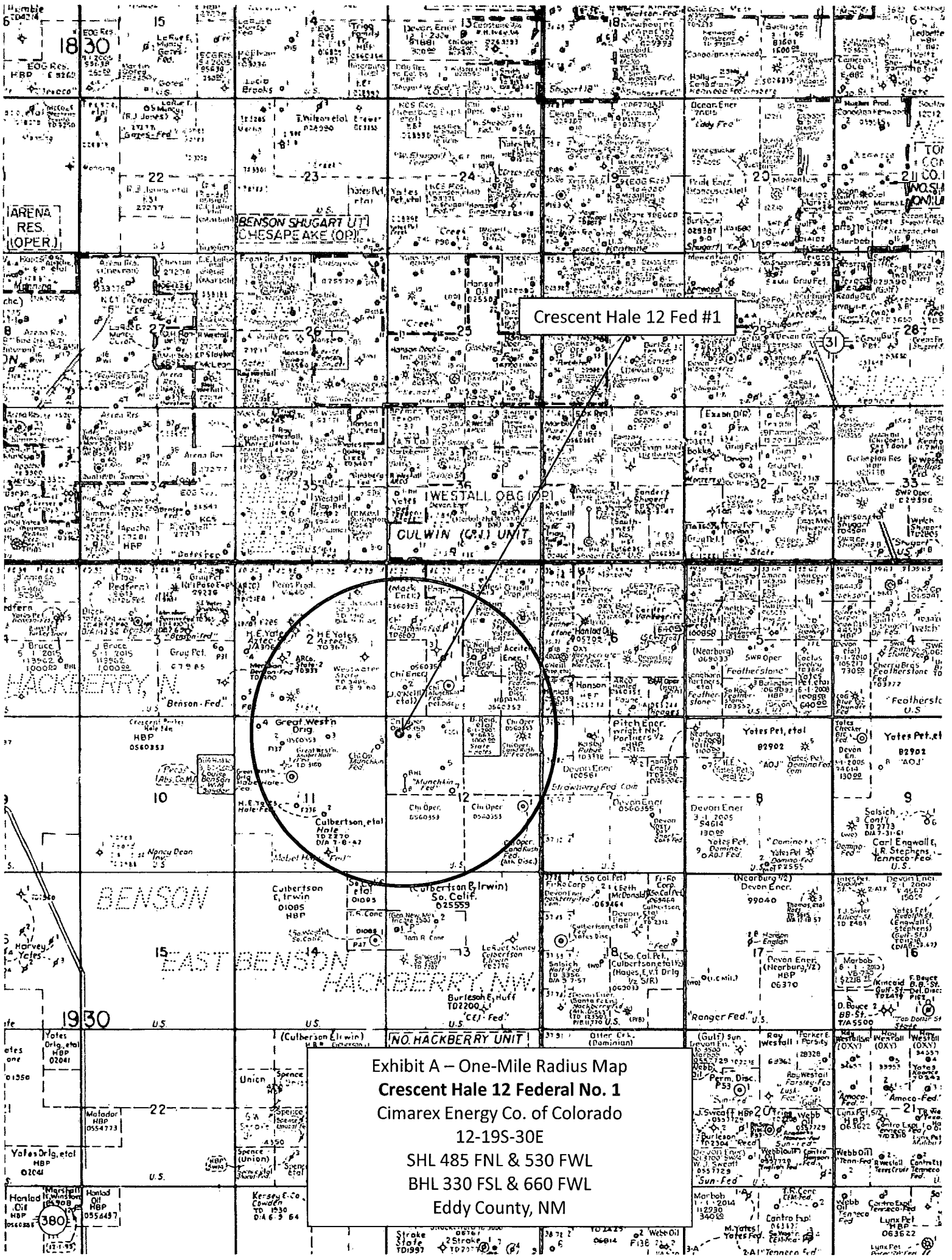
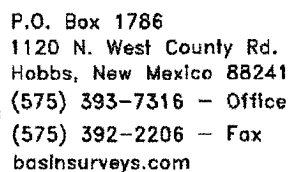
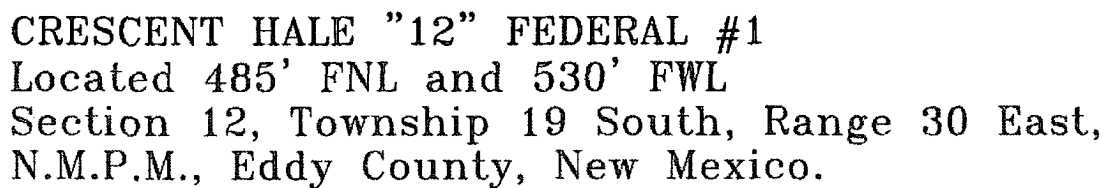


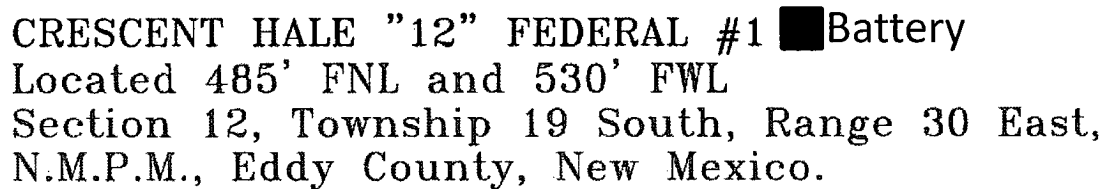
Exhibit A - One-Mile Radius Map
Crescent Hale 12 Federal No. 1
Cimarex Energy Co. of Colorado
12-19S-30E
SHL 485 FNL & 530 FWL
BHL 330 FSL & 660 FWL
Eddy County, NM



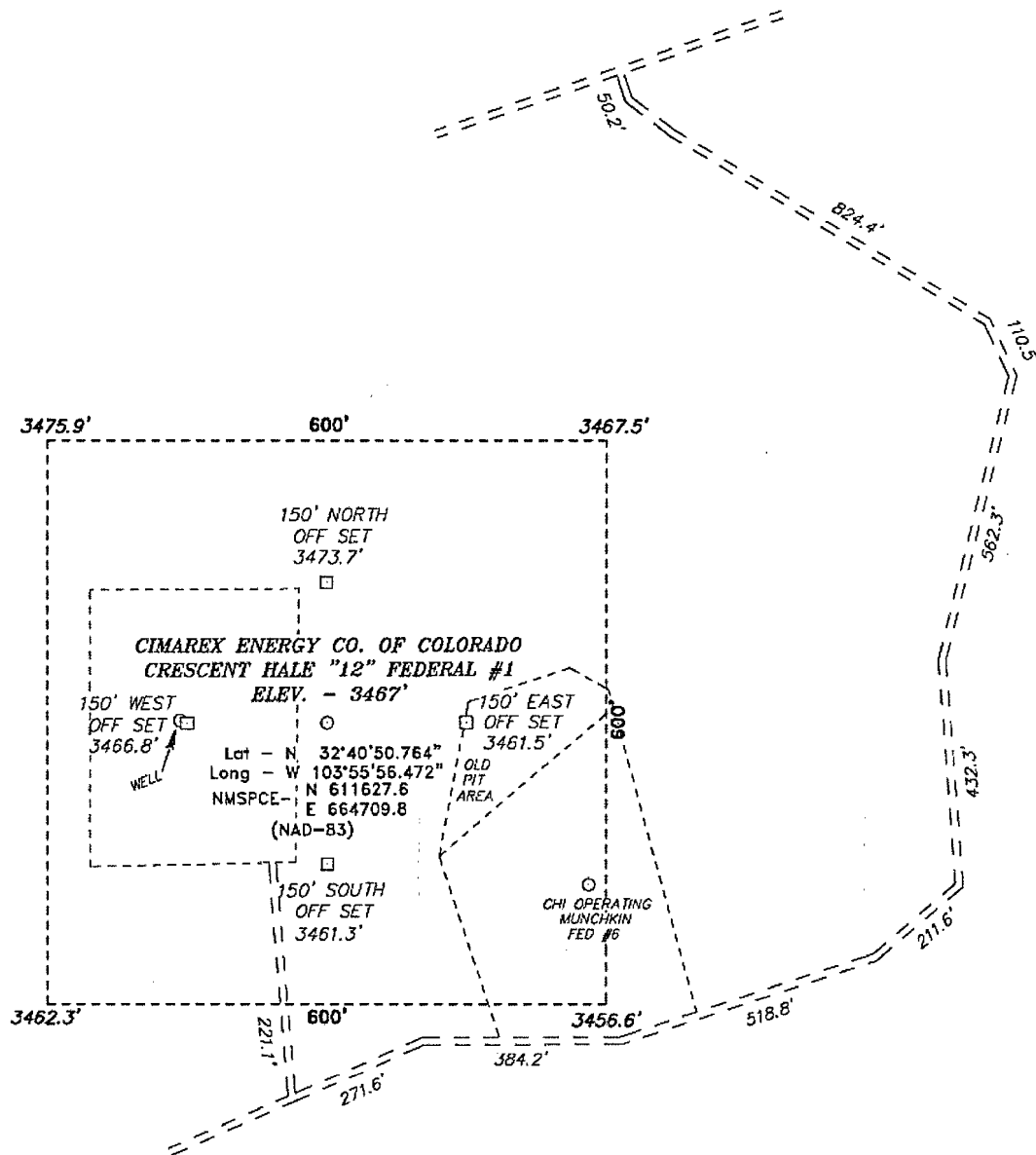
Date: 10-08-2010

CIMAREX
ENERGY CO.
OF COLORADO

Exhibit B



SECTION 12, TOWNSHIP 19 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



200 0 200 400 FEET

SCALE: 1" = 200'

Directions to Location:

FROM THE JUNCTION OF SHUGART ROAD AND GRUBBS ROAD, GO WEST ON GRUBBS ROAD FOR 2.3 MILES TO LEASE ROAD, ON LEASE ROAD GO SOUTH 3.0 MILES, ON LEASE ROAD GO SOUTH WINDING WEST FOR 0.2 MILES, THEN NORTH FOR 0.1 MILES TO PROPOSED LOCATION.

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

W.O. Number: 23362	Drawn By: B. NIXON
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Date: 10-08-2010	Disk: BJN 23362
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CIMAREX ENERGY CO. OF COLORADO

REF: CRESCENT HALE "12" FEDERAL #1 / WELL PAD TOPO

THE CRESCENT HALE "12" FEDERAL #1 LOCATED 485'

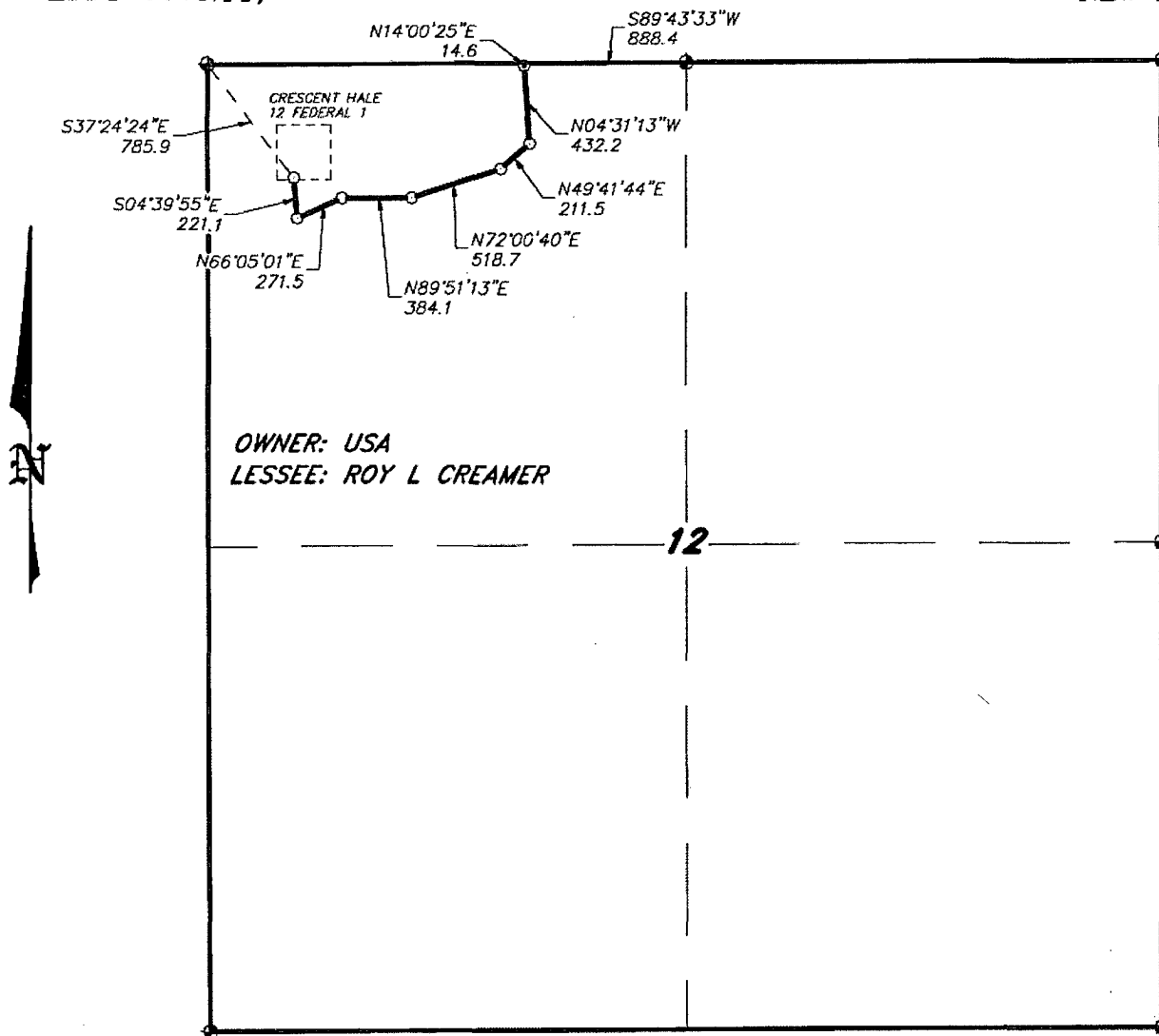
FROM THE NORTH LINE AND 530' FROM THE WEST LINE OF

SECTION 12, TOWNSHIP 19 SOUTH, RANGE 30 EAST,

N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 09-27-2010 Sheet 1 of 1 Sheets

**SECTION 12, TOWNSHIP 19 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



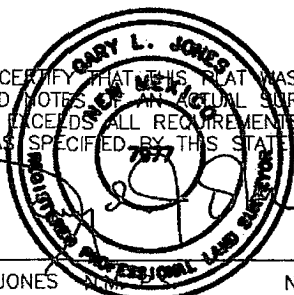
**OWNER: USA
LESSEE: ROY L CREAMER**

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 12, TOWNSHIP 19 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 12 = 2053.7 FEET = 124.47 RODS = 0.39 MILES = 1.41 ACRES

I HEREBY CERTIFY THAT THIS PLAT 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
TEXAS P.L.S. No. 5074

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

W.O. Number: 23362 Drawn By: J. M. SMALL

Date: 11-19-2010 Disk: JMS 23362

1000 0 1000 2000 FEET

CIMAREX ENERGY COMPANY OF COLORADO

REF: PROPOSED LEASE ROAD

A LEASE ROAD CROSSING USA LAND IN
SECTION 12, TOWNSHIP 19 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 09-27-2010 Sheet 1 of 3 Sheets



SECTION 1 = 7676.4 FEET = 465.24 RODS = 1.45 MILES = 5.29 ACRES



SECTION 1, TOWNSHIP 19 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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

W.O. Number: 23362

Drawn By: J. M. SMALL

Date: 11-19-2010

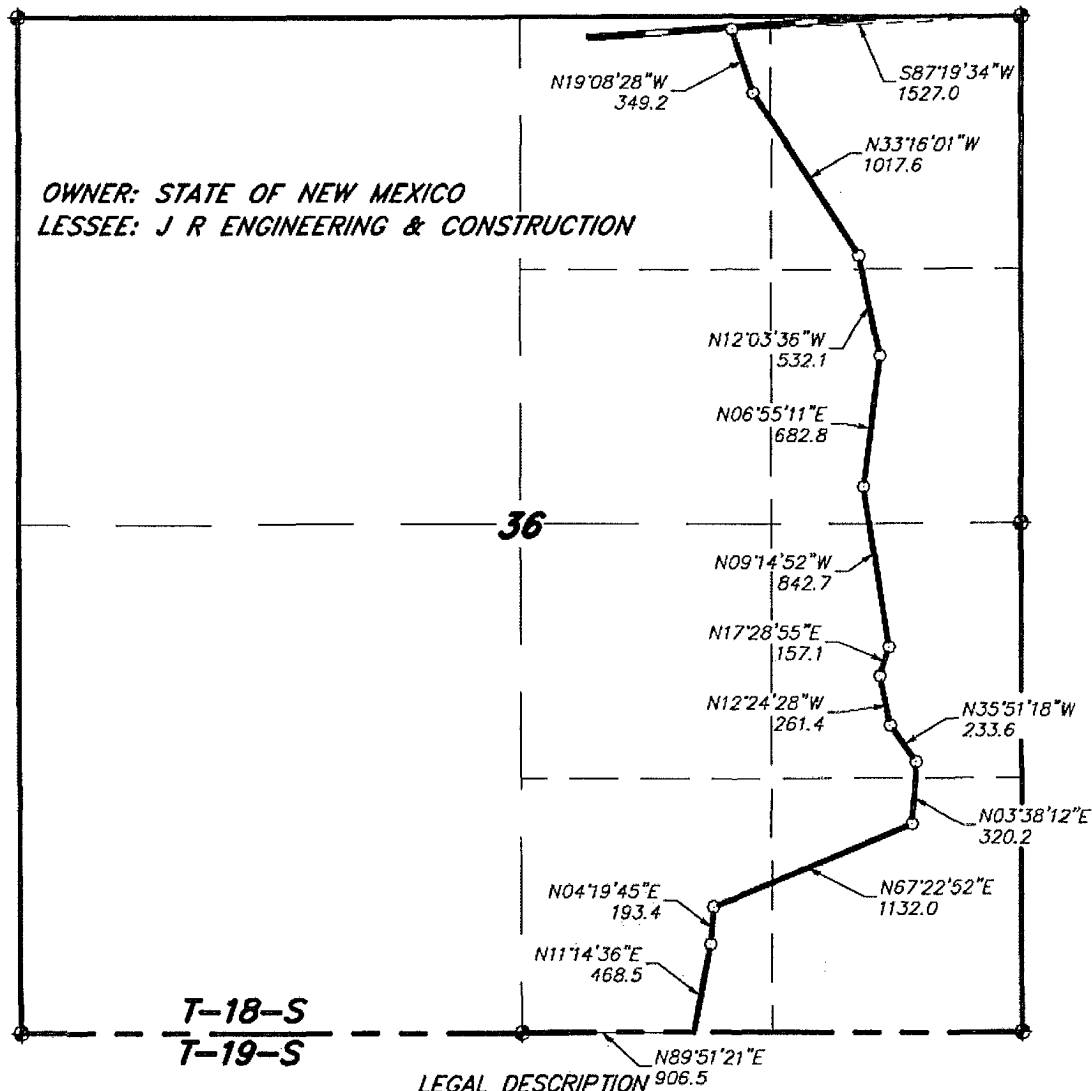
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Survey Date: 09-27-2010

Sheet 2 of 3 Sheets

SECTION 36, TOWNSHIP 18 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.

OWNER: STATE OF NEW MEXICO
LESSEE: J R ENGINEERING & CONSTRUCTION



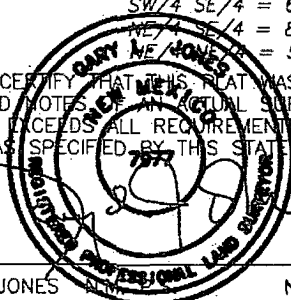
LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 36, TOWNSHIP 18 SOUTH, RANGE 30 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY. BEGINNING AT A POINT WHICH LIES N.89°51'21\"E., 906.5 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 36; THENCE N.11°14'36\"E., 468.5 FEET; THENCE N.04°18'45\"E., 193.4 FEET; THENCE N.67°22'52\"E., 1132.0 FEET; THENCE N.03°38'12\"E., 320.2 FEET; THENCE N.35°51'18\"W., 233.6 FEET; THENCE N.12°24'28\"W., 261.4 FEET; THENCE N.17°28'55\"E., 157.1 FEET; THENCE N.09°14'52\"W., 842.7 FEET; THENCE N.06°55'11\"E., 682.8 FEET; THENCE N.12°03'36\"W., 532.1 FEET; THENCE N.33°16'01\"W., 1017.6 FEET; THENCE N.19°08'28\"W., 349.2 FEET TO THE END OF THIS LINE WHICH LIES S.87°19'34\"W., 1527.0 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 36. SAID STRIP OF LAND BEING 6190.6 FEET OR 375.19 RODS IN LENGTH AND CONTAINING 4.26 ACRES, MORE OR LESS, AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 = 60.12 RODS = 0.68 ACRES
NE/4 SE/4 = 83.97 RODS = 0.95 ACRES
NW/4 SE/4 = 55.69 RODS = 0.63 ACRES

SE/4 SE/4 = 62.90 RODS = 0.71 ACRES
SE/4 NE/4 = 81.05 RODS = 0.92 ACRES
NW/4 NE/4 = 31.46 RODS = 0.37 ACRES

I HEREBY CERTIFY THAT THIS PLAT 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
TEXAS P.L.S. No. 5074

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

W.O. Number: 23362 Drawn By: J. M. SMALL

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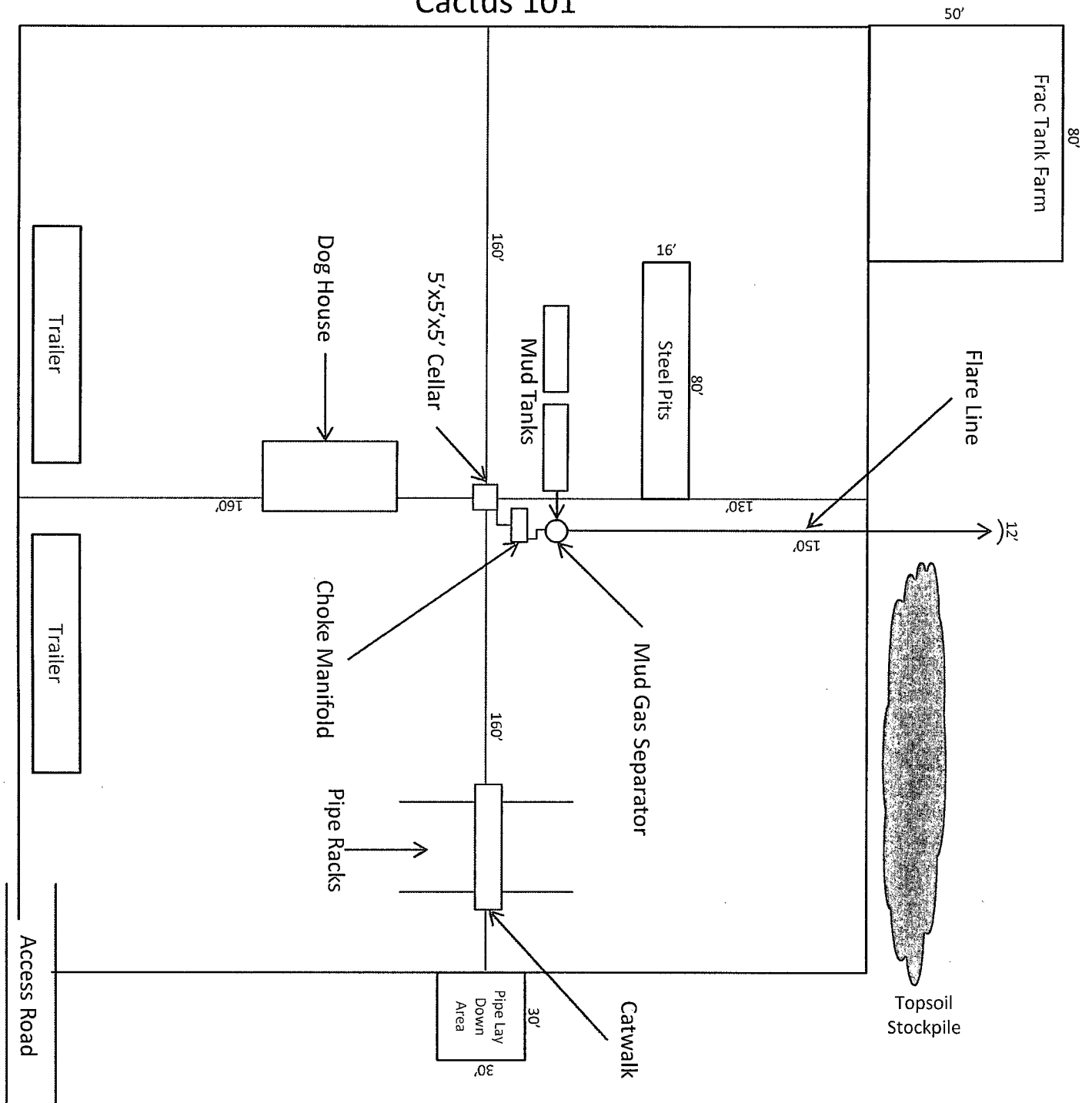
CIMAREX ENERGY COMPANY OF COLORADO

REF: PROPOSED LEASE ROAD

A LEASE ROAD CROSSING STATE LAND IN
SECTION 36, TOWNSHIP 18 SOUTH, RANGE 30 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 09-27-2010 Sheet 3 of 3 Sheets

Cactus 101



1"=50'



Exhibit D – Rig Diagram
Crescent Hale 12 Federal No. 1
 Cimarex Energy Co. of Colorado
 12-19S-30E
 SHL 485 FNL & 530 FWL
 BHL 330 FSL & 660 FWL
 Eddy County, NM

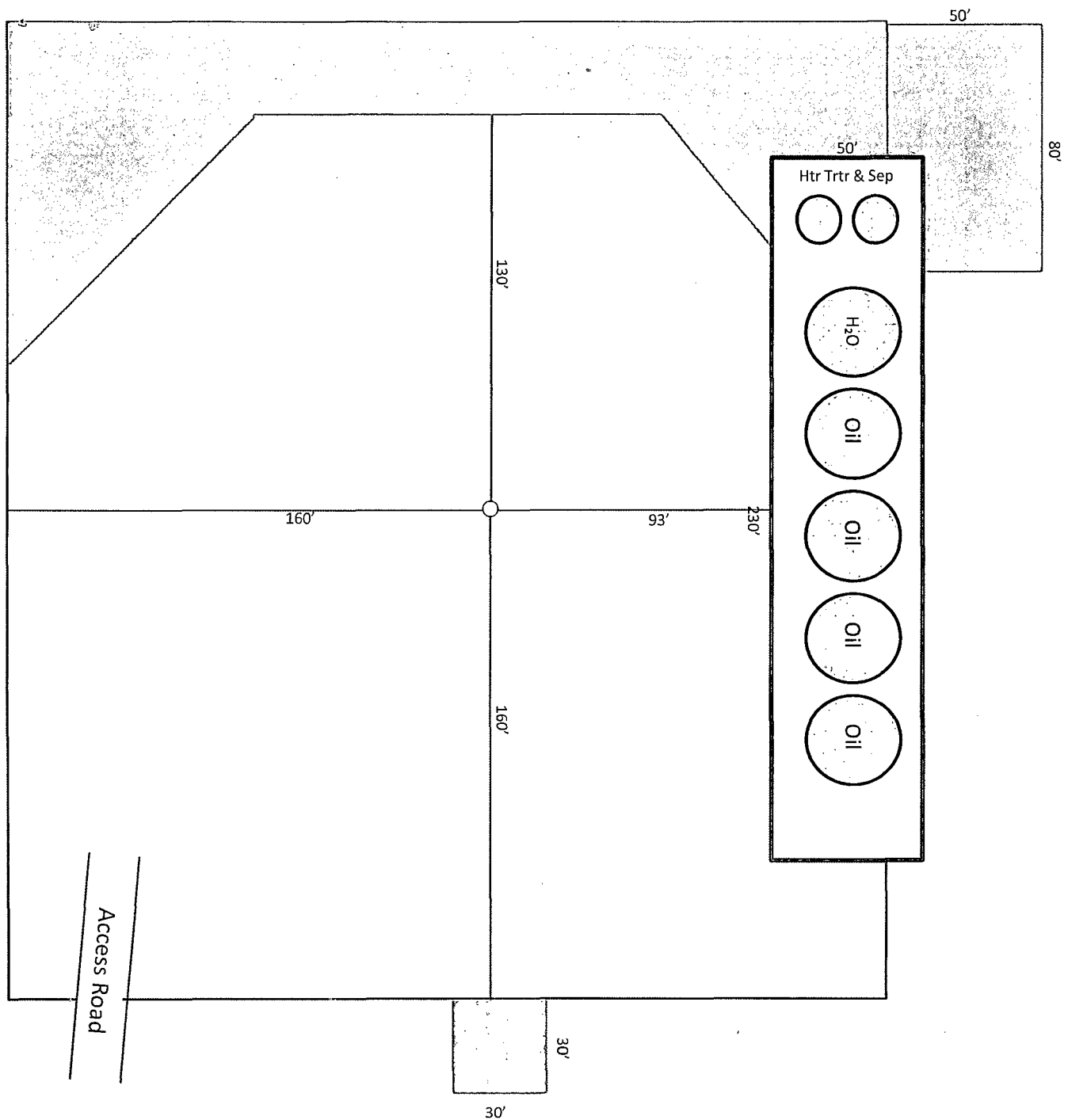
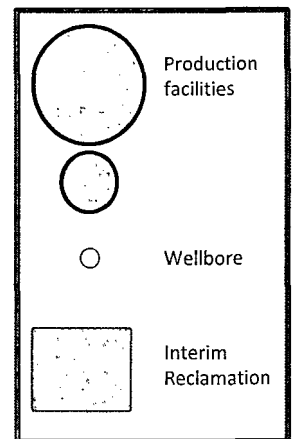


Exhibit D-1
 Production Facilities Layout Diagram
Crescent Hale 12 Federal No. 1
 Cimarex Energy Co. of Colorado
 12-19S-30E
 SHL 485 FNL & 530 FWL
 BHL 330 FSL & 660 FWL
 Eddy County, NM



1"=50'