

**EOG RESOURCES, INC.  
VENADO 10 FEDERAL 1H**

30-015-39015

**SURFACE USE PLAN OF OPERATION**

**SHL: 135' FSL & 330' FEL, Unit P, Section 10, T25S-R29E, N.M.P.M., Eddy, NM**  
**BHL: 330' FNL & 900' FEL, Unit A, Section 10, T25S-R29E, N.M.P.M., Eddy, NM**

**1. EXISTING ROADS:**

- a. The well site and elevation plat for the proposed well are reflected on the well site layout; Form C-102. The well was staked by Terry Asel, RPL 15079.
- b. All roads into the location are depicted on Exhibits 2 & 2a.
- c. Directions to Locations: From the intersection of US 285 and Black River Village Road in Malaga, go south on U.S. Hwy 285 for 12.6 miles, turn left on County Road #725 (Whitehorn Road) and go ENE for 4.0 miles, turn left on lease road and go NE along pipeline for 2.0 miles, turn left and go north for 4.2 miles, turn right on proposed road and go southeast for 0.2 miles, turn left and go east for 0.5 miles to location.

**2. NEW OR RECONSTRUCTED ACCESS ROAD:**

- a. The well site layout, Exhibit 2a shows the layout. A new access road will be constructed a distance of (3,700') of compact caliche.
- b. The maximum width of the road will be 14'. It will be crowned and made of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent soil erosion.
- c. Surface material will be native caliche. This material will be obtained from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. No cattleguards, gates or fence cuts will be required. No turnouts are planned.

**3. LOCATION OF EXISTING WELLS:**

Exhibit #3 shows all existing wells within a one-mile radius of this well.

**4. LOCATION OF EXISTING AND/OR PROPOSED PRODUCTION FACILITIES:**

- a. In the event the well is found to be productive, the necessary production equipment will be installed at the Venado Central Tank Battery Location which will serve the Venado 1H, 2H, 3H & 4H and Herd Bull 14 Fed 1H & 2H.
- b. Applicant shall construct a 2.875" surface steel pipeline alongside the road to transport oil/gas/produced water to the CTB. See Exhibit 5.
- c. If electricity is required, applicant shall use portable generators until such time as Xcel Energy constructs the Red Bluff Substation. Then applicant shall construct

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an over-head powerline to location after securing authorization from the BLM Realty Group.

- d. Refer to b above.
- e. If the well is productive, rehabilitation plans are as follows:
  - i. The location shall be reduced on all sides of the location as depicted by the Location Layout. The interim reclamation will be performed when optimal conditions exist during the growing season as per the interim reclamation guidelines of the BLM.
  - ii. The original topsoil from the well site will be returned to the location. The location will be contoured as close as possible to match the original topography.

**5. LOCATION AND TYPE OF WATER SUPPLY:**

This location will be drilled using a combination of water mud systems (outlined in the drilling program). The water will be obtained from commercial water stations in the area and hauled to location by transport truck using existing and proposed roads shown in Exhibit 2 & 2a. On occasion, water will be obtained from existing water wells. In these cases where a poly pipeline is used to transport water for drilling purposes, proper authorizations will be secured. If poly pipeline is used to transport fresh water to the location, proper authorization will be secured by the contractor.

**6. CONSTRUCTION MATERIALS**

Obtaining Mineral Material – Caliche utilized for the drilling pad and proposed access road will be obtained either from an existing approved pit, or by benching into a hill which will allow the pad to level with existing caliche from cut, or extracted by “flipping” the location. A caliche permit shall be obtained from the BLM prior to excavating any caliche on Federal Lands. Amount will vary for each pad. The procedure for “flipping” the location is as follows:

- 1. An adequate amount of topsoil for final reclamation will be stripped from the well location surface and stockpiled along the edge of the location as shown in the well site layout.
- 2. An area will be used within the proposed well site to excavate caliche.
- 3. The subsoil will then be removed and stockpiled within the footages of the well location.
- 4. Once caliche/mineral material is found, the material will be excavated and stockpiled within the footages of the well location.
- 5. The subsoil will then be placed back in the excavated hole.
- 6. Caliche/mineral material will then be placed over the entire pad and/or road to be compacted.

In the event that caliche is not found on site, a permit will be acquired if caliche is obtained from a BLM approved caliche pit

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**7. METHODS OF HANDLING WASTE MATERIALS**

- a. Drill cuttings shall be disposed of in a steel cuttings bin (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to an approved cuttings dumpsite.  
At the site, the cuttings shall be removed from the bin & the bin shall be returned to the drilling site for reuse.
- b. All trash, junk, and other waste material shall be contained in trash cages or trash bins to prevent scattering. When a job is completed, all contents shall be removed and disposed of in an approved landfill.
- c. The supplier, including broken sacks, shall pick up salts remaining after completion of well.
- d. If necessary, a porto-john shall be provided for the rig crews. This equipment shall be properly maintained during the drilling and completion operations and shall be removed when all operations are complete.
- e. Remaining drilling fluids shall be hauled off by transports to a state approved disposal site. Water produced during completion shall be put in storage tanks and disposed of in a state approved disposal. Oil and condensate produced shall be put in a storage tank and sold.
- f. Disposal of fluids to be transported by the following companies:
  - i. RGB TRUCKING
  - ii. LOBO TRUCKING
  - iii. I & W TRUCKING
  - iv. CRANE HOT OIL & TRANSPORT
  - v. JWS
  - vi. QUALITY TRUCKING

**8. ANCILLARY FACILITIES:**

- a. No airstrip, campsite, or other facilities will be built.

**9. WELL SITE LAYOUT:**

- a. Exhibit 4 shows the proposed location of reserve and sump pits, living facilities and well site layout with dimensions of the pad layout.
- b. Mud pits in the active circulating system shall be steel pits and the catch tanks shall be steel tanks set in shallow sumps behind the steel circulating tanks and sumps.
- c. The area where the catch tanks are placed shall be reclaimed and the surface vegetation restored to as or near the same condition that existed prior to operations.

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**10. PLANS FOR SURFACE RECLAMATION:**

- a. After concluding the drilling and/or completion operations, if the well is found non-commercial, the caliche shall be removed from the pad and transported to the original caliche pit or used for other drilling locations and roads. The road shall be reclaimed and the surface vegetation restored to as or near the same condition that existed prior to operations. The catch tank area shall be broken out and leveled after drying to a condition where these are feasible. The original topsoil shall again be returned to the pad and contoured, as close as possible, to the original topography.
- b. After the well is plugged and abandoned, the location and road shall be reclaimed and the surface vegetation restored to as or near the same condition that existed prior to operations.
- c. If the well is deemed commercially productive, the catch tank area shall be restored as described in 4(e)(i). Caliche from areas of the pad site not required for operations shall be reclaimed. The original topsoil shall be returned to the area of the drill pad not necessary to operate the well. These unused areas of the drill pad shall be contoured, as close as possible, to match the original topography.

**11. SURFACE OWNERSHIP**

The surface is owned by the Bureau of Land Management. The surface is multiple use with the primary uses of the region for the grazing of livestock and the production of oil and gas.

**12. OTHER INFORMATION:**

- a. The area surrounding the well is mesquite and tar brush. The topsoil is sandy in nature. The vegetation is moderately sparse with native prairie grass, cactus and shinnery oak. No wildlife was observed but it is likely that deer, rabbits, coyotes, birds and rodents transverse the area.
- b. There are not dwellings within 2 miles of location.
- c. Applicant will participate in the MOA.

**13. BOND COVERAGE:**

- a. Bond Coverage is Nationwide; Bond No. NM 2308

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COMPANY REPRESENTATIVES:

Representatives responsible for ensuring compliance of the surface use plan are listed below:

Land and Right of Way

Mr. Donny G. Glanton  
Senior Lease Operations ROW Representative  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3642 Office  
(432) 770-0602 Cell

Drilling

Mr. Steve Munsell  
Drilling Engineer  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3609 Office  
(432) 894-1256 Cell

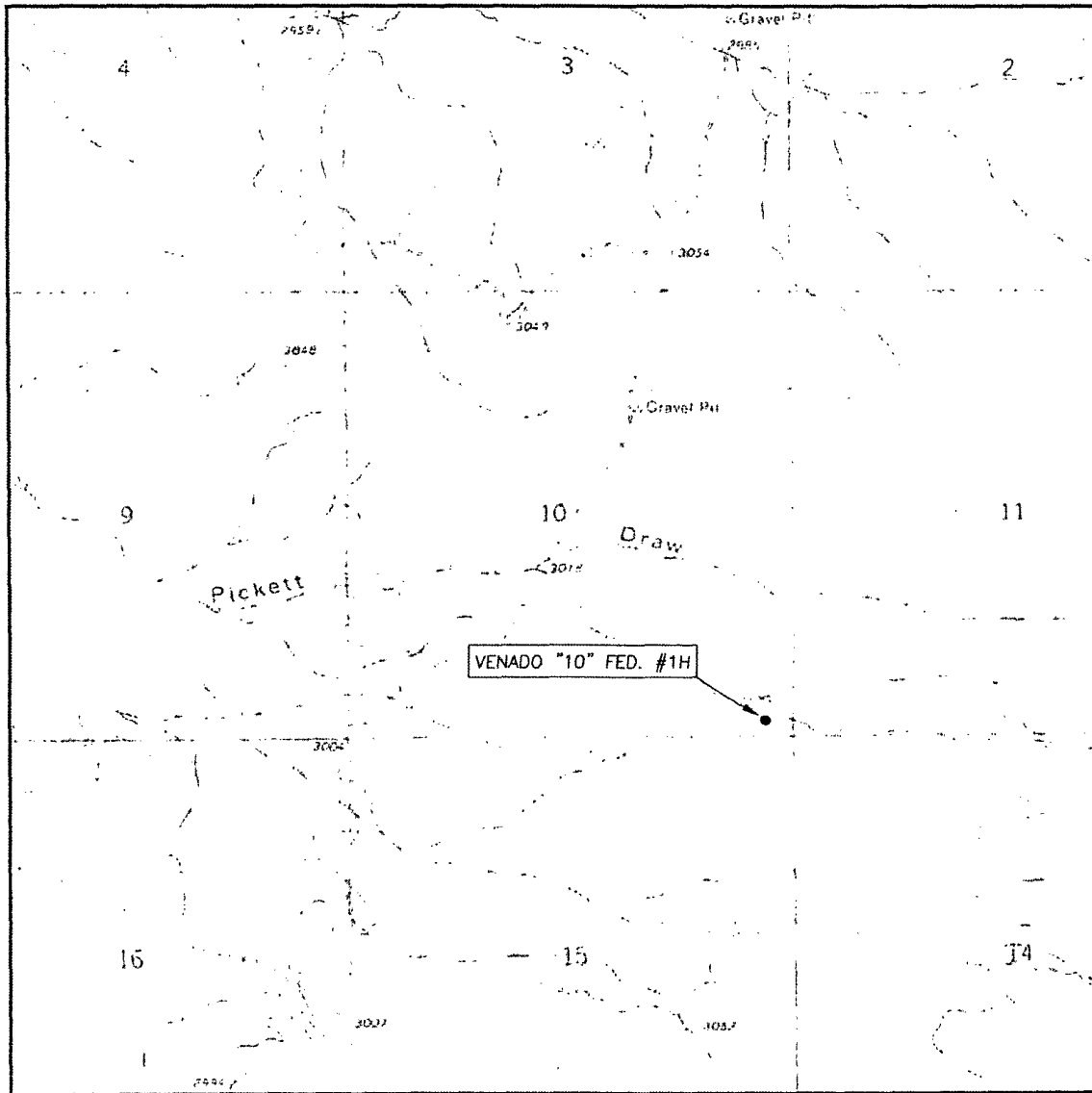
Operations

Mr. Howard Kemp  
Production Manager  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3704 Office  
(432) 634-1001 Cell

Regulatory

Mr. Stan Wagner  
Regulatory Analyst  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3689 Office

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 10 TWP. 25-S RGE. 29-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 135' FSL & 330' FEL

ELEVATION 3063.2'

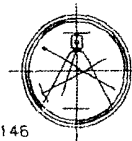
OPERATOR EOG RESOURCES, INC.

LEASE VENADO "10" FED. #1H

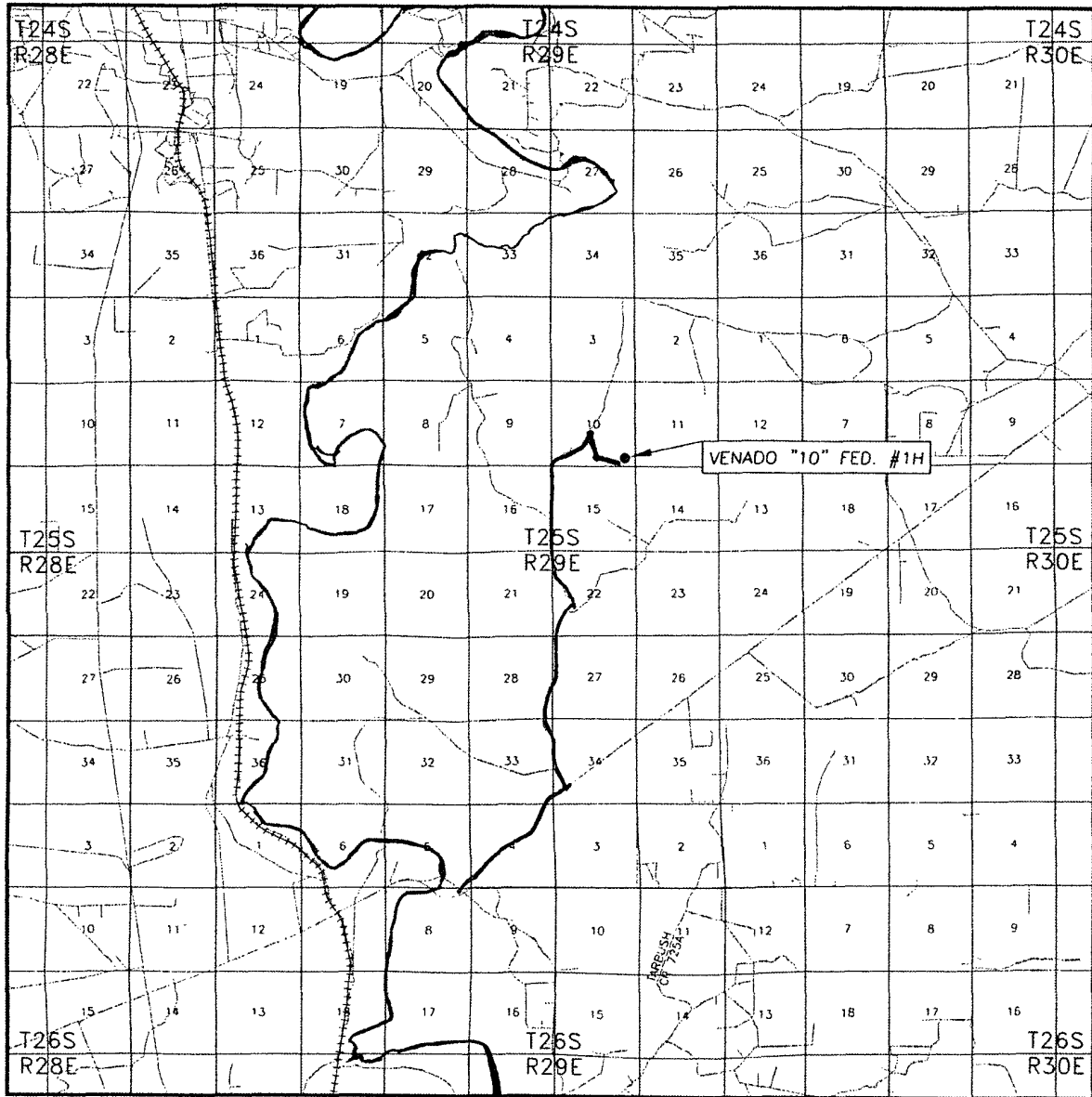
U.S.G.S. TOPOGRAPHIC MAP  
PIERCE CANYON, N.M.

Asel Surveying

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



# VICINITY MAP

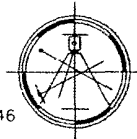


SEC. 10 TWP. 25-S. RGE. 29-E  
 SURVEY N.M.P.M.  
 COUNTY EDDY  
 DESCRIPTION 135' FSL & 330' FEL  
 ELEVATION 3063.2'  
 OPERATOR EOG RESOURCES, INC.  
 LEASE VENADO "10" FED. #1H

SCALE: 1" = 2 MILES

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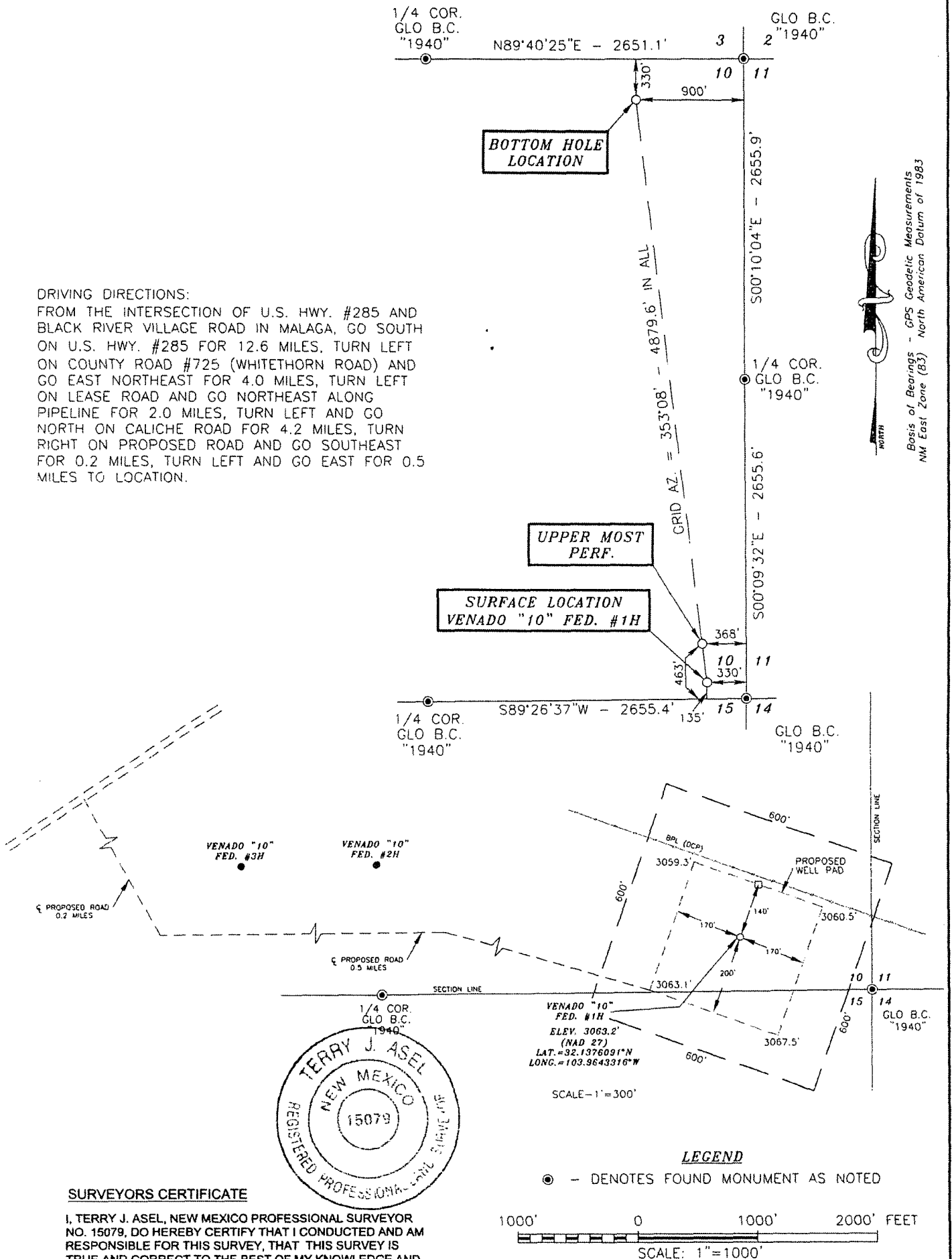
DIRECTIONS FROM THE INTERSECTION OF U.S. HWY. #285 AND BLACK RIVER VILLAGE ROAD IN MALAGA, GO SOUTH ON U.S. HWY. #285 FOR 12.6 MILES, TURN LEFT ON COUNTY ROAD #725 (WHITETHORN ROAD) AND GO EAST NORTHEAST FOR 4.0 MILES, TURN LEFT ON LEASE ROAD AND GO NORTHEAST ALONG PIPELINE FOR 2.0 MILES, TURN LEFT AND GO NORTH ON CALICHE ROAD FOR 4.2 MILES, TURN RIGHT ON PROPOSED ROAD AND GO SOUTHEAST FOR 0.2 MILES, TURN LEFT AND GO EAST FOR 0.5 MILES TO LOCATION.

# Exhibit 2a

## SECTION 10, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY NEW MEXICO

### DRIVING DIRECTIONS:

FROM THE INTERSECTION OF U.S. HWY. #285 AND BLACK RIVER VILLAGE ROAD IN MALAGA, GO SOUTH ON U.S. HWY. #285 FOR 12.6 MILES, TURN LEFT ON COUNTY ROAD #725 (WHITETHORN ROAD) AND GO EAST NORTHEAST FOR 4.0 MILES, TURN LEFT ON LEASE ROAD AND GO NORTHEAST ALONG PIPELINE FOR 2.0 MILES, TURN LEFT AND GO NORTH ON CALICHE ROAD FOR 4.2 MILES, TURN RIGHT ON PROPOSED ROAD AND GO SOUTHEAST FOR 0.2 MILES, TURN LEFT AND GO EAST FOR 0.5 MILES TO LOCATION.



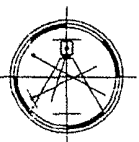
### SURVEYORS CERTIFICATE

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* 4/16/2011  
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



## EOG RESOURCES, INC.

VENADO "10" FEDERAL #1H LOCATED AT  
135' FSL & 330' FEL IN SECTION 10,  
TOWNSHIP 25 SOUTH, RANGE 29 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 04/05/11	Sheet 1 of 1 Sheets
W.O. Number: 101026WL-b (Rev. A)	Drawn By: KA Rev: A
Date: 04/12/11	101026WL-b Scale: 1"=1000'

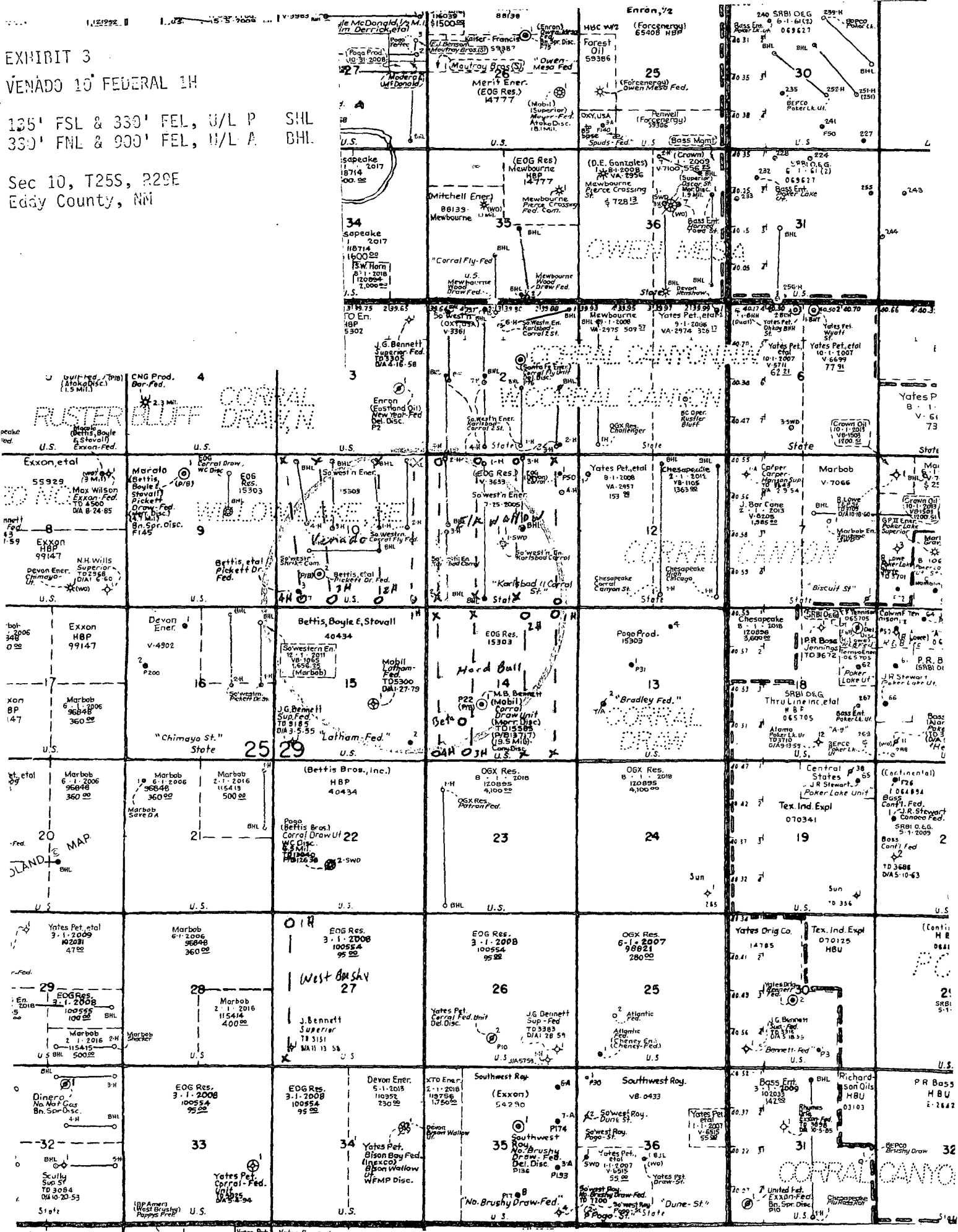


# EXHIBIT 3

## VENADO FEDERAL 1H

135' FSL & 330' FEL, U/L P SHL  
330' FNL & 900' FEL, U/L A BHL

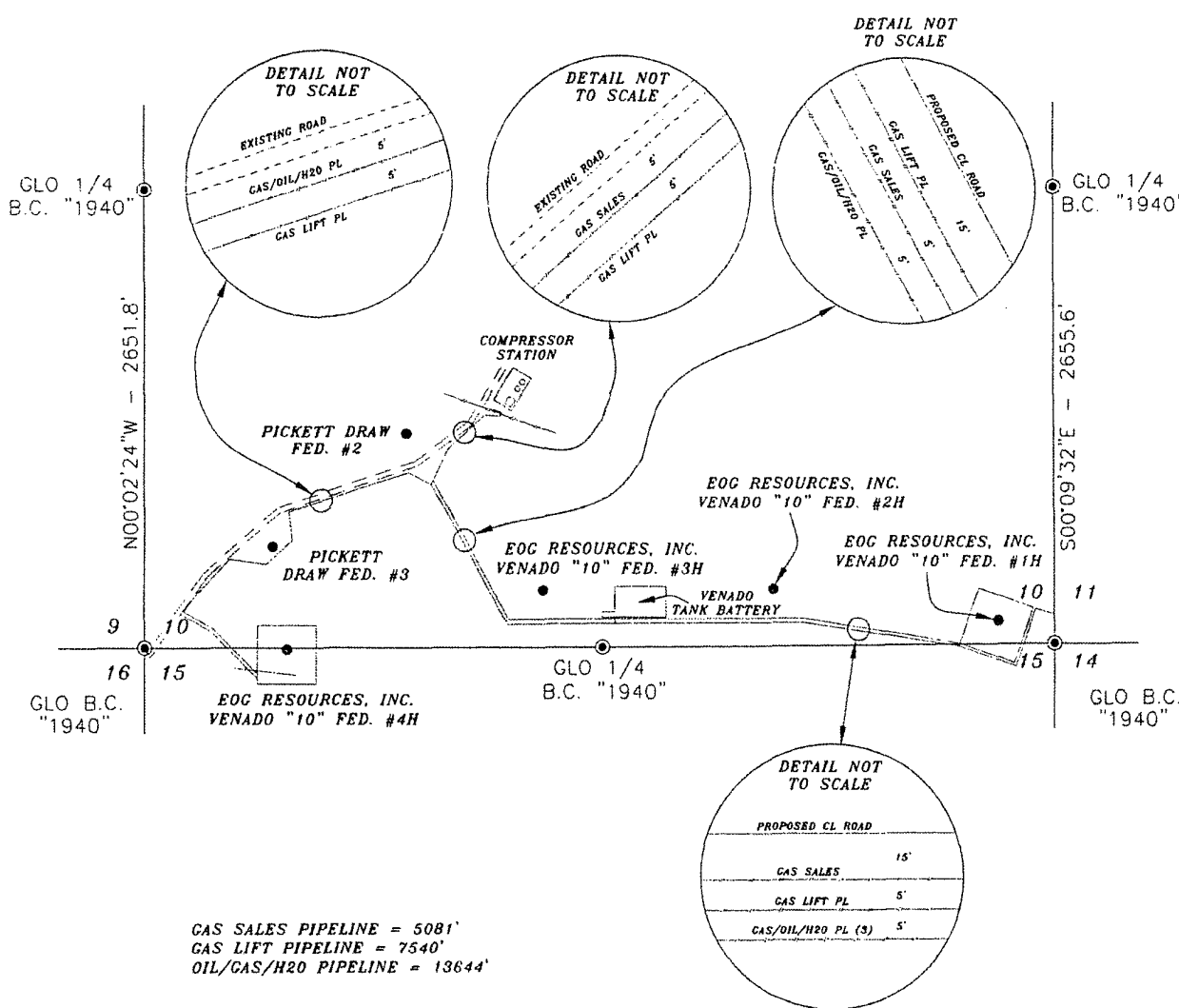
Sec 10, T25S, R29E  
Eddy County, NM



SECTION 10, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M.,  
EDDY COUNTY  
NEW MEXICO

Exhibit 5

North  
Basis of Bearings - GPS Geodetic Measurements  
NAD 83 North American Datum of 1983

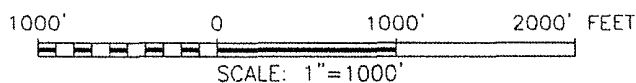


GAS SALES PIPELINE = 5081'  
GAS LIFT PIPELINE = 7540'  
OIL/GAS/H2O PIPELINE = 13644'



LEGEND

● - DENOTES FOUND MONUMENT AS NOTED

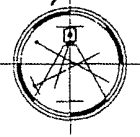


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*Terry J. Asel* 4/21/2011  
Terry J. Asel N.M. R.P.S. No. 15079

Asel Surveying



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

EOG RESOURCES, INC.

PROPOSED GAS LIFT PIPELINE, GAS SALES PIPELINE, & GAS/OIL/H2O PIPELINE TO THE VENADO "10" FED. #1H, #2H, #3H & #4H IN SECTION 10, TOWNSHIP 25 SOUTH, RANGE 29 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

Survey Date: 04/05/11	Sheet 1 of 1 Sheets
W.O. Number: 110405RD	Drawn By: KA
Date: 04/21/11	110405RD.DWG Scale: 1"=1000'