

APR 20 2012

**SURFACE USE PLAN OF OPERATION**

RECEIVED

EG 4-24-2012

SHL: 50' FSL & 1310' FEL, Unit P, Section 24, T25S-R33E, N.M.P.M., Lea, NM  
BHL: 2310' FSL & 1310' FEL, Unit I, Section 13, T25S-R33E, N.M.P.M., Lea, 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 and 2b.
- c. Directions to Location: Beginning in Jal at the intersection of N.M. State Highway #18 and N.M. State Highway #128, go west on N.M. State Highway #128 for 22.0 miles, turn left and go south on lease road for 6.1 miles, turn left and go east for 0.6 miles, turn right and go south for 0.6 miles, turn right and go south southwest for 1.2 miles, turn left and go southeast 0.7 miles to location.

2. NEW OR RECONSTRUCTED ACCESS ROAD:

- a. The well site layout, Exhibit 2a shows the layout. A new access road will not be needed on this location.
- b. The maximum width of the existing 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 a Central Tank Battery (CTB) located in Section 24, T25S-R33E.
- b. Applicant shall construct a 2 7/8" steel pipeline on the surface to transport the gas, oil and produced water. Pipeline shall follow the road.
- c. Applicant shall secure Right of Way for Over-head electrical power from the BLM Realty Group.
- d. Refer to b above.

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- 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 and 2b. 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

**7. METHODS OF HANDLING WASTE MATERIALS**

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- 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. SURFACE OWNERSHIP

STATE OF NEW MEXICO *RL*  
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.

11. 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 2.0 miles of location.
- c. Applicant shall participate in the MOA.

12. BOND COVERAGE:

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

COMPANY REPRESENTATIVES:

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

Land and Right of Way

Mr. Roger Motley  
Senior Lease Operations ROW Representative  
EOG Resources, Inc.  
P.O. Box 2267  
Midland, TX 79702  
(432) 686-3642 Office  
(361) 537-8281 Cell

Drilling

Operations

Regulatory

**EOG RESOURCES, INC.**  
**VACA 24 FED #6H**

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

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

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

## OPERATOR CERTIFICATION

I 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 that presently 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 17 day of October, 2011.

Name: Roger Motley

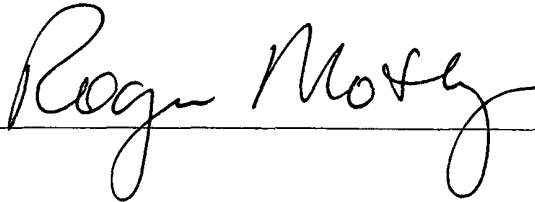
Position: Sr. Lease Operations ROW Representative

Address: P.O. Box 2267, Midland, TX 79705

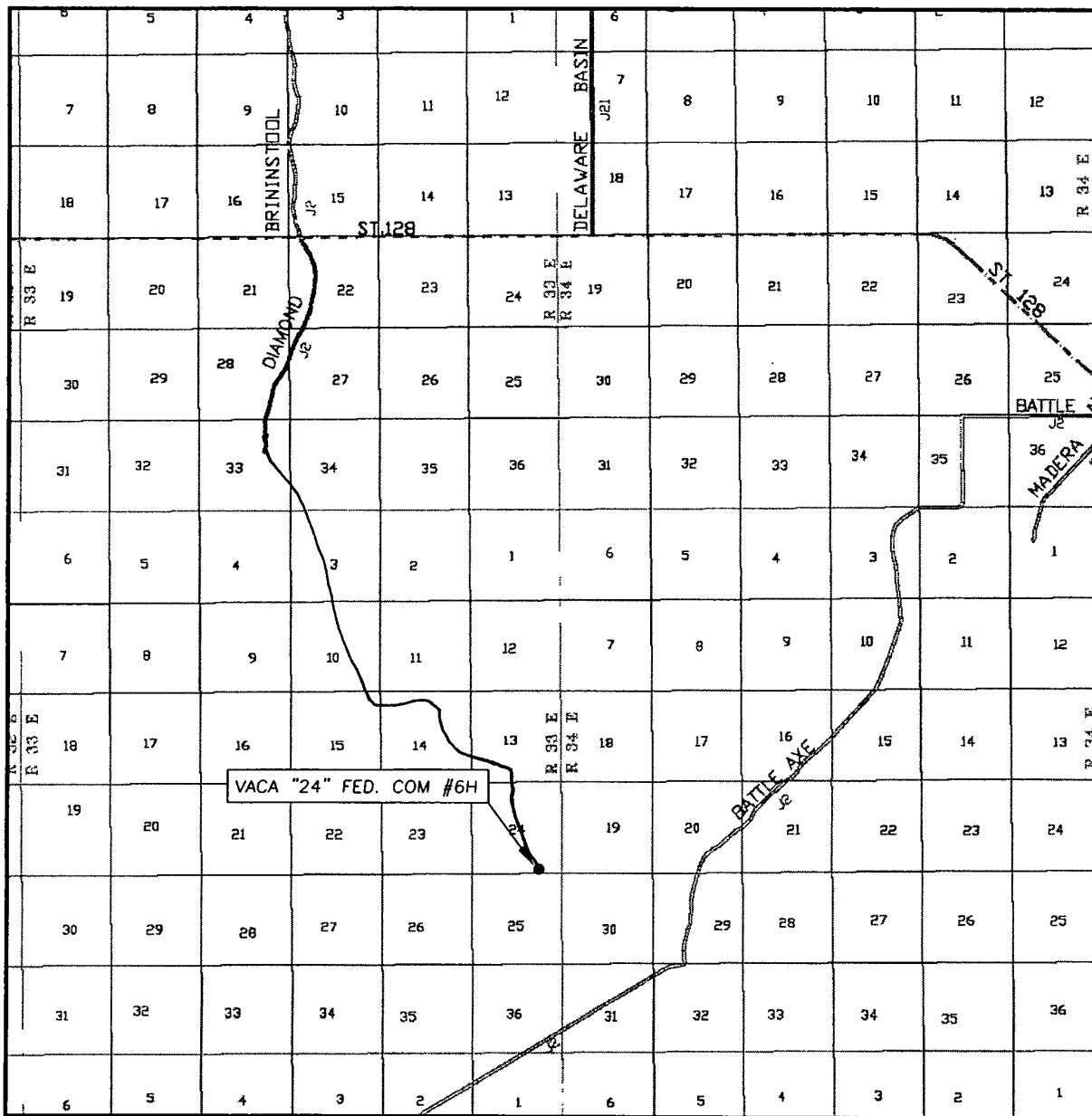
Telephone: (432) 686-3642

Email: roger\_motley@eogresources.com

Signed

A handwritten signature in cursive script, reading "Roger Motley", is written over a horizontal line.

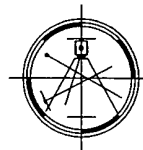
# VICINITY MAP



SEC. 24 TWP. 25-S RGE. 33-E  
 SURVEY N.M.P.M.  
 COUNTY LEA  
 DESCRIPTION 50' FSL & 1310' FEL  
 ELEVATION 3329.4  
 OPERATOR EOG RESOURCES, INC.  
 LEASE VACA "24" FED. COM #6H

SCALE: 1" = 2 MILES

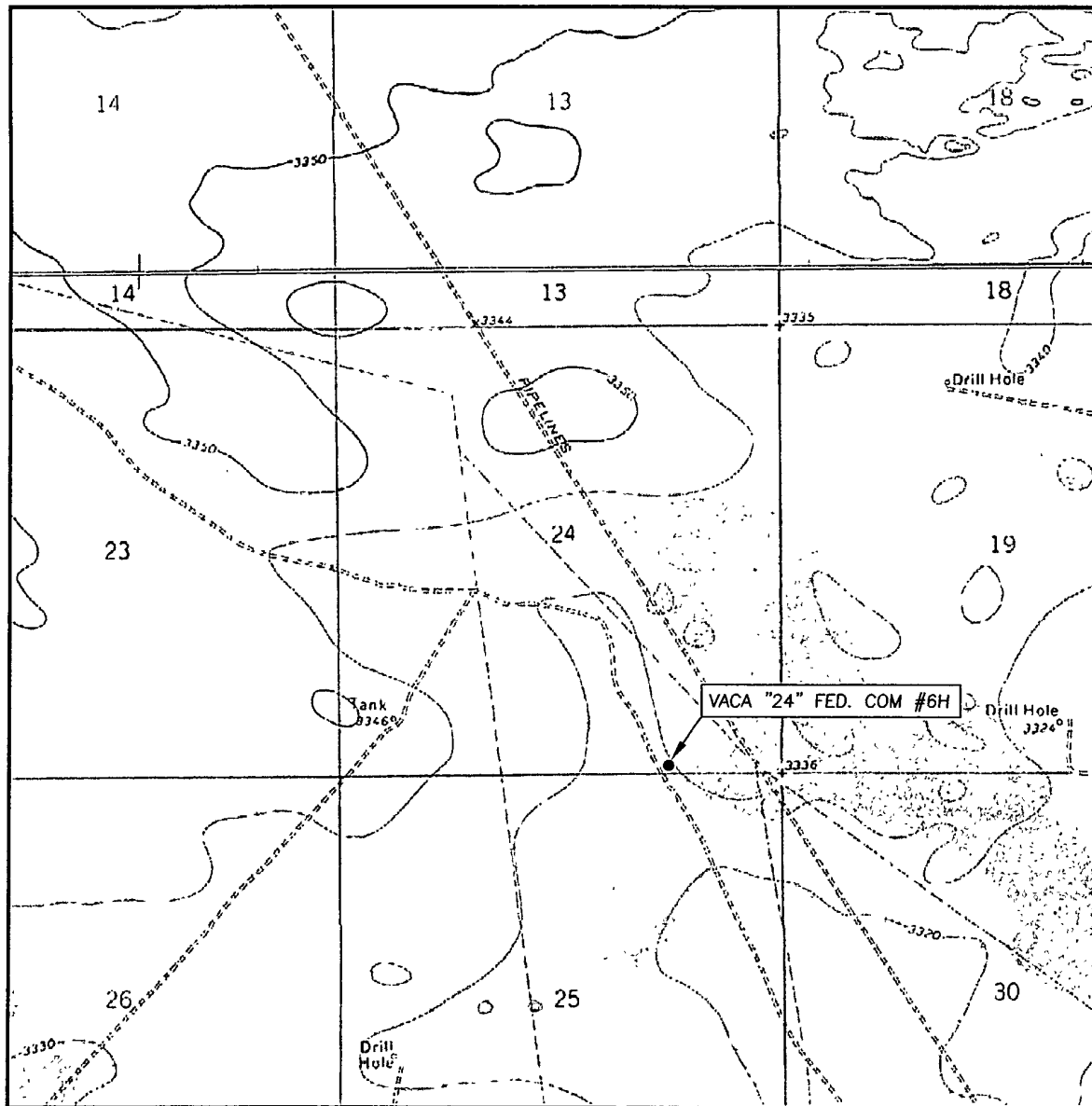
Asel Surveying



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

DIRECTIONS BEGINNING IN JAL AT THE INTERSECTION OF N.M. STATE HWY. #18 AND N.M. STATE HWY. #128, GO WEST ON N.M. STATE HWY. #128 FOR 22.0 MILES, TURN LEFT AND GO SOUTH ON LEASE ROAD FOR 6.1 MILES, TURN LEFT AND GO EAST FOR 0.6 MILES, TURN RIGHT AND GO SOUTH FOR 0.6 MILES, TURN RIGHT AND GO SOUTHWEST/SOUTH FOR 1.2 MILES, TURN LEFT AND GO SOUTHEAST FOR 0.7 MILES TO LOCATION.

# LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'

SEC. 24 TWP. 25-S RGE. 33-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 50' FSL & 1310' FEL

ELEVATION 3329.4'

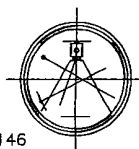
OPERATOR EOG RESOURCES, INC.

LEASE VACA "24" FED. COM #6H

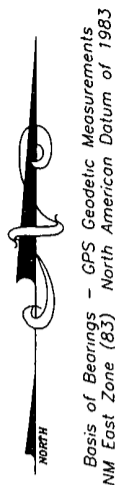
U.S.G.S. TOPOGRAPHIC MAP  
PADUCA BREAKS EAST, N.M.

Asel Surveying

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

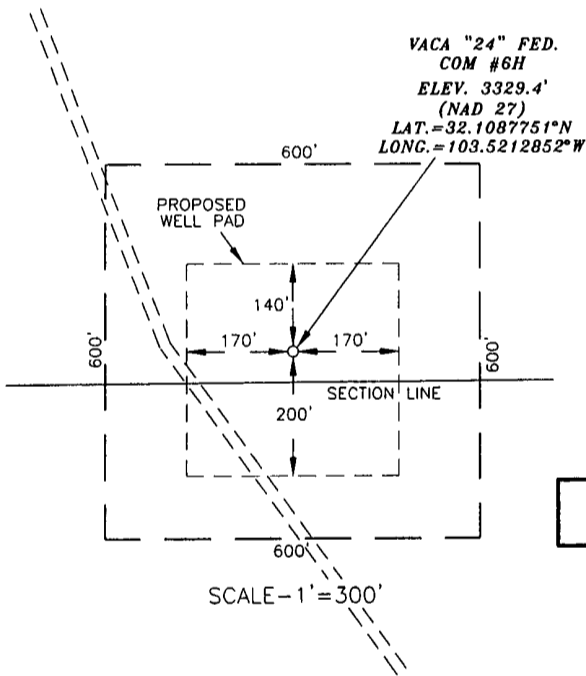


SECTIONS 24 & 13, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY  
NEW MEXICO



DIRECTIONS:

BEGINNING IN JAL AT THE INTERSECTION OF N.M. STATE HWY. #18 AND N.M. STATE HWY. #128, GO WEST ON N.M. STATE HWY. #128 FOR 22.0 MILES, TURN LEFT AND GO SOUTH ON LEASE ROAD FOR 6.1 MILES, TURN LEFT AND GO EAST FOR 0.6 MILES, TURN RIGHT AND GO SOUTH FOR 0.6 MILES, TURN RIGHT AND GO SOUTHWEST/SOUTH FOR 1.2 MILES, TURN LEFT AND GO SOUTHEAST FOR 0.7 MILES TO LOCATION.



VACA "24" FED. COM #6H  
ELEV. 3329.4'  
(NAD 27)  
LAT.=32.1087751°N  
LONG.=103.5212852°W

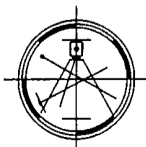


SURVEYORS CERTIFICATE

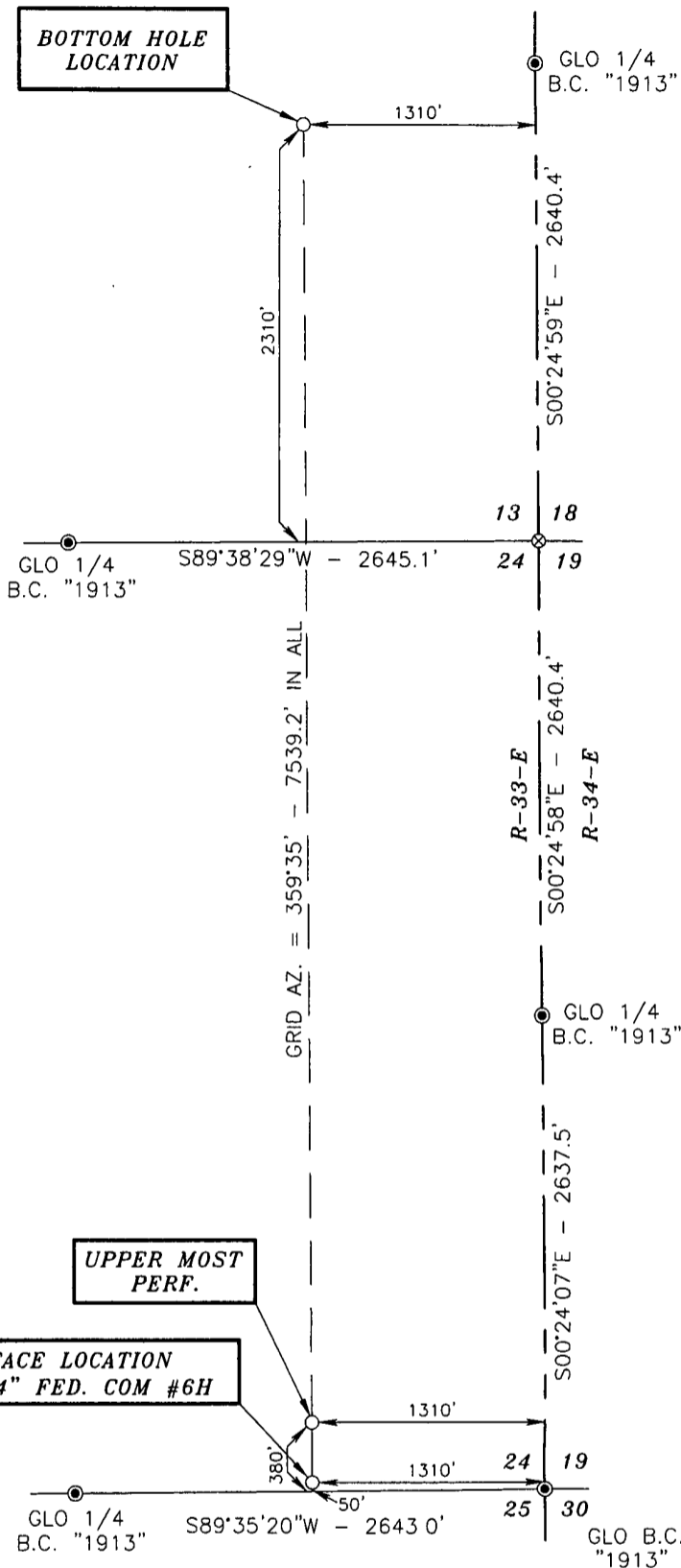
I, TERRY J. ASEL, NEW MEXICO PROFESSIONAL SURVEYOR NO. 15079, DO HEREBY CERTIFY THAT I CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND MEETS THE "MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO" AS ADOPTED BY THE NEW MEXICO STATE BOARD OF REGISTRATION FOR PROFESSIONAL ENGINEERS AND SURVEYORS.

*Terry J. Asel* 10/4/2011  
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

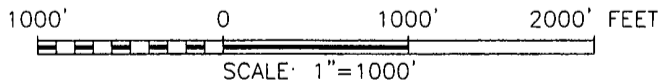


UPPER MOST  
PERF.

SURFACE LOCATION  
VACA "24" FED. COM #6H

LEGEND

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

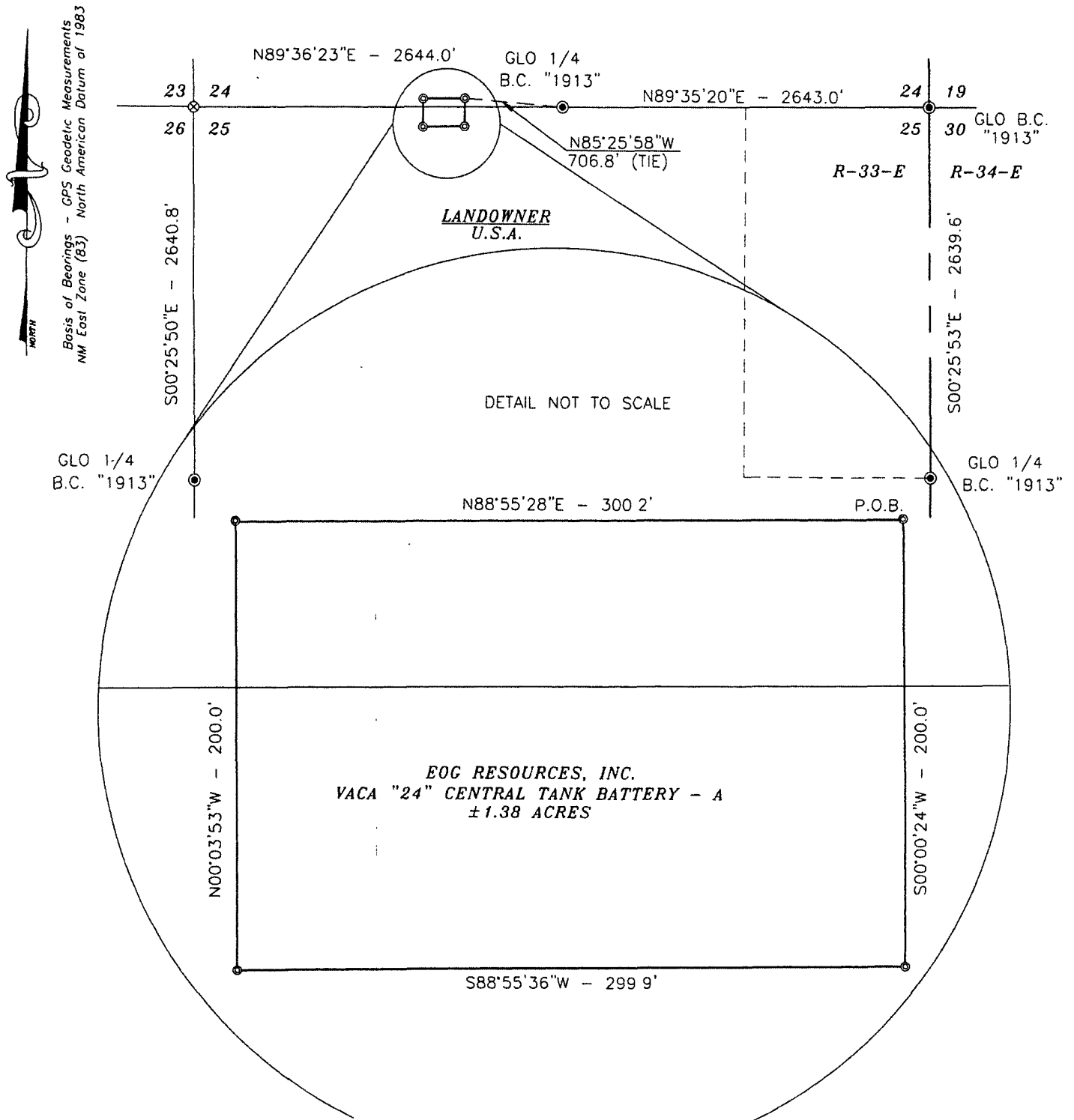


EOG RESOURCES, INC.

VACA "24" FED. COM #6H LOCATED AT  
50' FSL & 1310' FEL OF SECTION 24,  
TOWNSHIP 25 SOUTH, RANGE 33 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 09/15/11	Sheet 1 of 1 Sheets
W.O. Number: 110915WL-b	Drawn By: KA Rev:
Date: 09/29/11	110915WL-b Scale: 1"=1000'

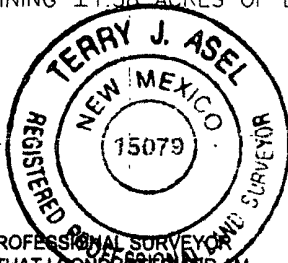
SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY  
NEW MEXICO



**DESCRIPTION**

SURVEY FOR A ±1.38 ACRE TRACT OF LAND IN SECTIONS 24 & 25, 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 N85°25'58\"W - 706.8 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 24, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, THENCE S00°00'24\"W - 200.0 FEET; THENCE S88°55'36\"W - 299.9 FEET; THENCE N00°03'53\"W - 200.0 FEET; THENCE N88°55'28\"E - 300.2 FEET TO THE POINT OF BEGINNING, AND CONTAINING ±1.38 ACRES OF LAND MORE OR LESS.



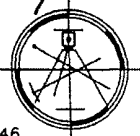
**SURVEYORS CERTIFICATE**

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* 12/19/2011  
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



**LEGEND**

- - DENOTES FOUND MONUMENT AS NOTED  
⊗ - DENOTES CALCULATED CORNER

1000' 0 1000' 2000' FEET  
SCALE: 1"=1000'

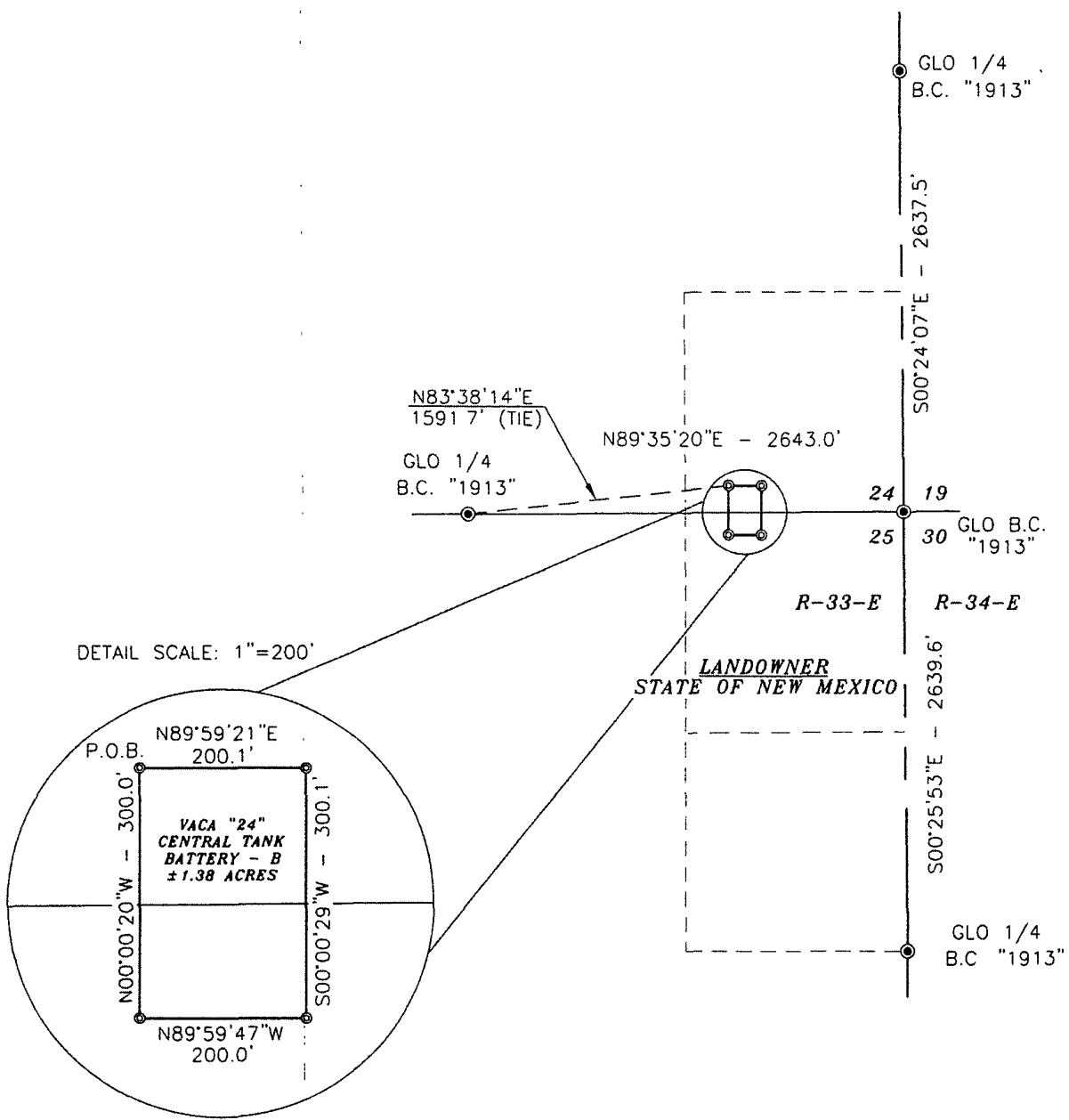
**EOG RESOURCES, INC.**

SURVEY FOR A ±1.38 ACRE TRACT OF LAND IN  
SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE  
33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/01/11	Sheet 1 of 1 Sheets
W.O. Number: 111201PS-a	Drawn By: JL
Date: 12/13/11	111201PS-a.DWG Scale: 1"=1000'

SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY  
NEW MEXICO

Basis of Bearings - GPS Geodetic Measurements  
NM East Zone (83) North American Datum of 1983



**DESCRIPTION**

SURVEY FOR A ±1.38 ACRE TRACT OF LAND IN SECTIONS 24 & 25, 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 N83°38'14"E - 1591.7 FEET FROM THE SOUTH QUARTER CORNER OF SAID SECTION 24, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, THENCE N89°59'21"E - 200.1 FEET; THENCE S00°00'29"W - 300.1 FEET; THENCE N89°59'47"W - 200.0 FEET; THENCE N00°00'20"W - 300.0 FEET TO THE POINT OF BEGINNING, AND CONTAINING ±1.38 ACRES OF LAND MORE OR LESS.

**SECTION 24**  
SE/4 SE/4 - 0.76 ACRES  
**SECTION 25**  
NE/4 NE/4 - 0.62 ACRES



**SURVEYORS CERTIFICATE**

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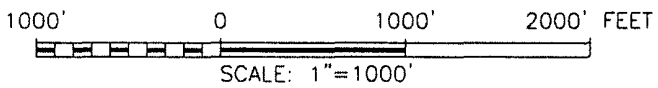
*Terry J. Asel* 12/19/2011  
Terry J. Asel / N.M. R.P.S. No. 15079

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



**LEGEND**

- - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

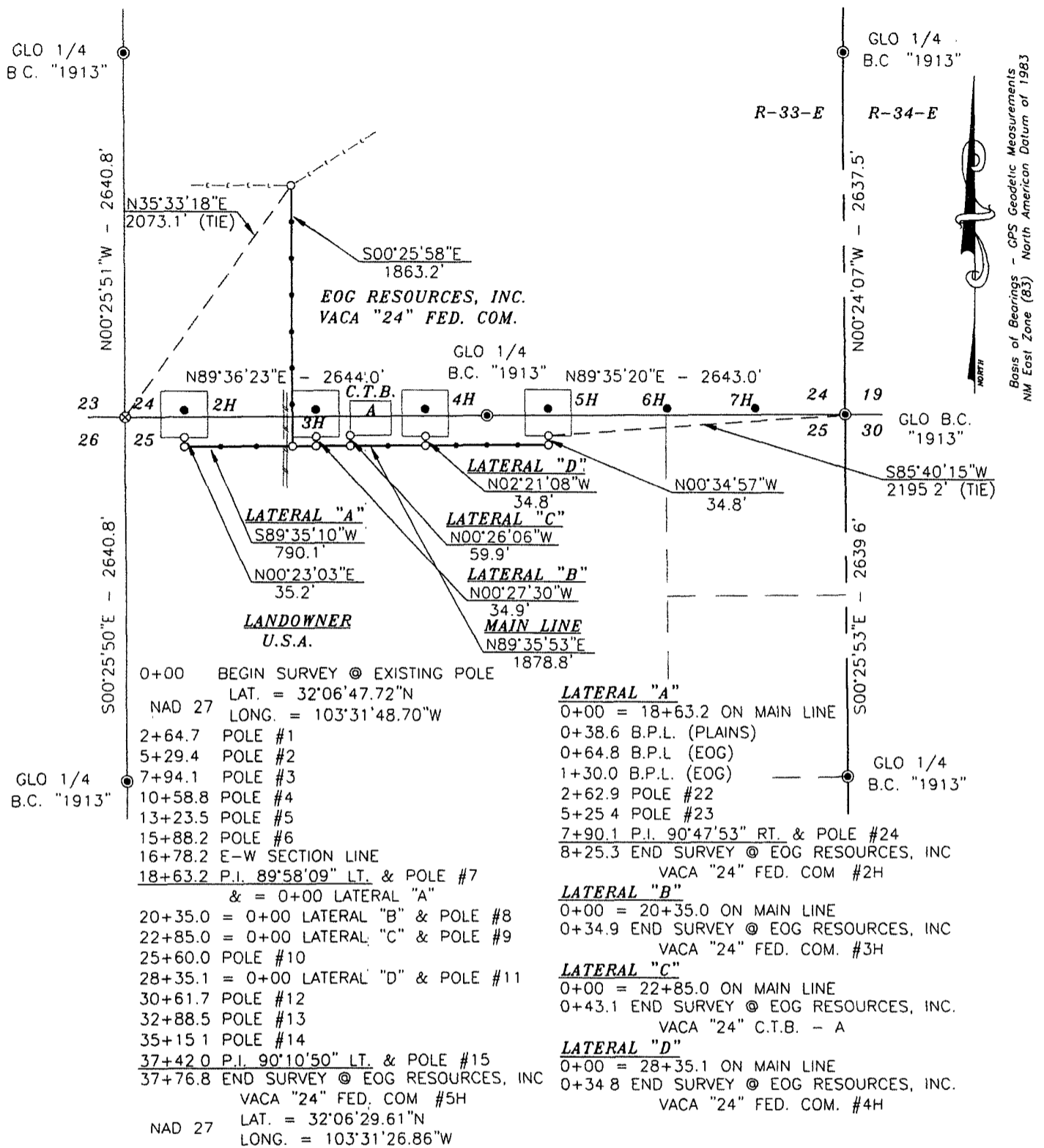


**EOG RESOURCES, INC.**

SURVEY FOR A ±1.38 ACRE TRACT OF LAND IN SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/01/11	Sheet 1 of 1 Sheets
W.O. Number: 111201PS-b	Drawn By: JL
Date: 12/13/11	111201PS-b DWG Scale: 1"=1000'

SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY  
NEW MEXICO



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 4714.9 FEET OR 0.893 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

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 N.M. R.P.S. No. 15079

Asel Surveying

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

LEGEND

- - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER
- - DENOTES POLE

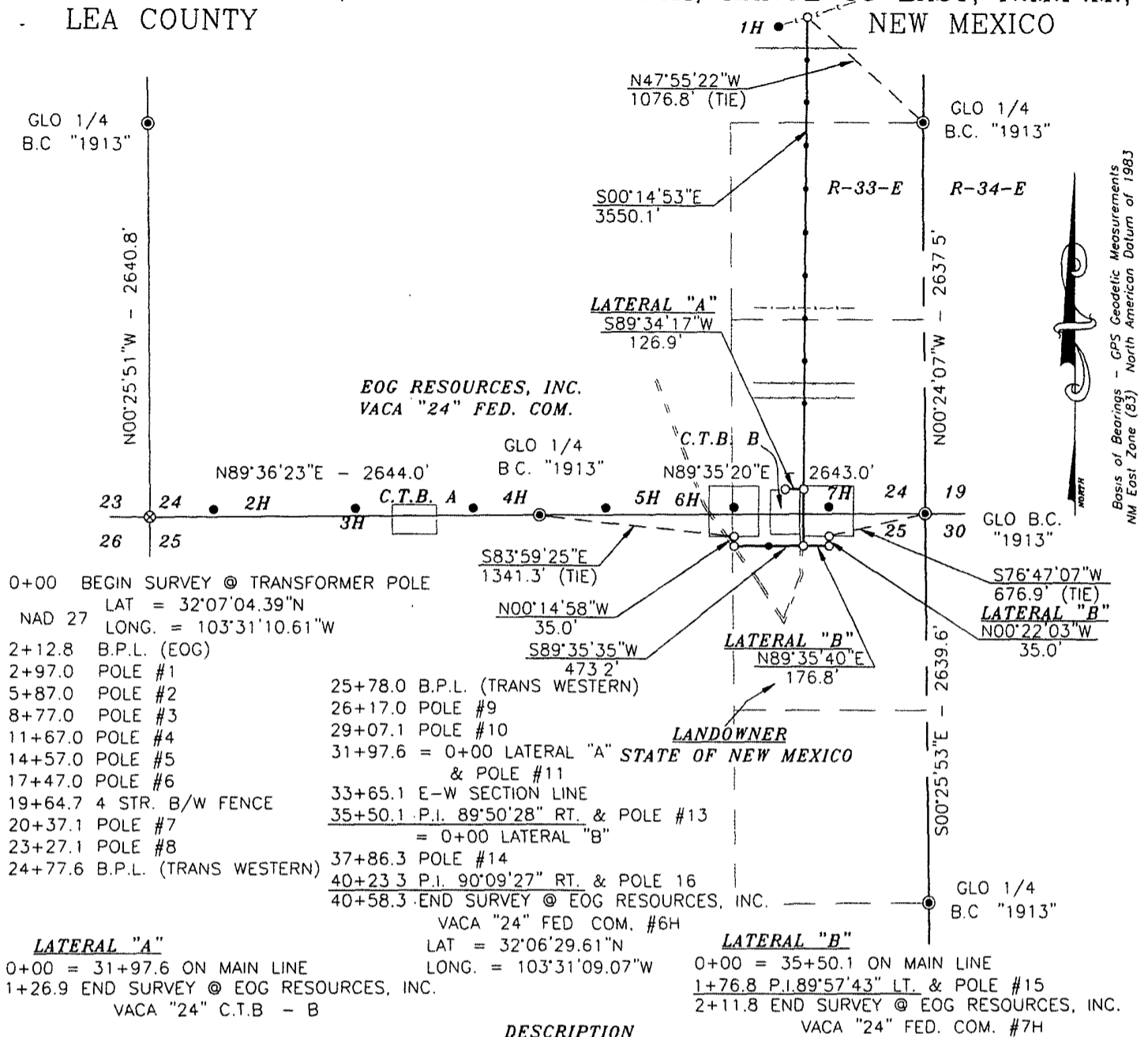
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SCALE: 1"=1000'

EOG RESOURCES, INC.

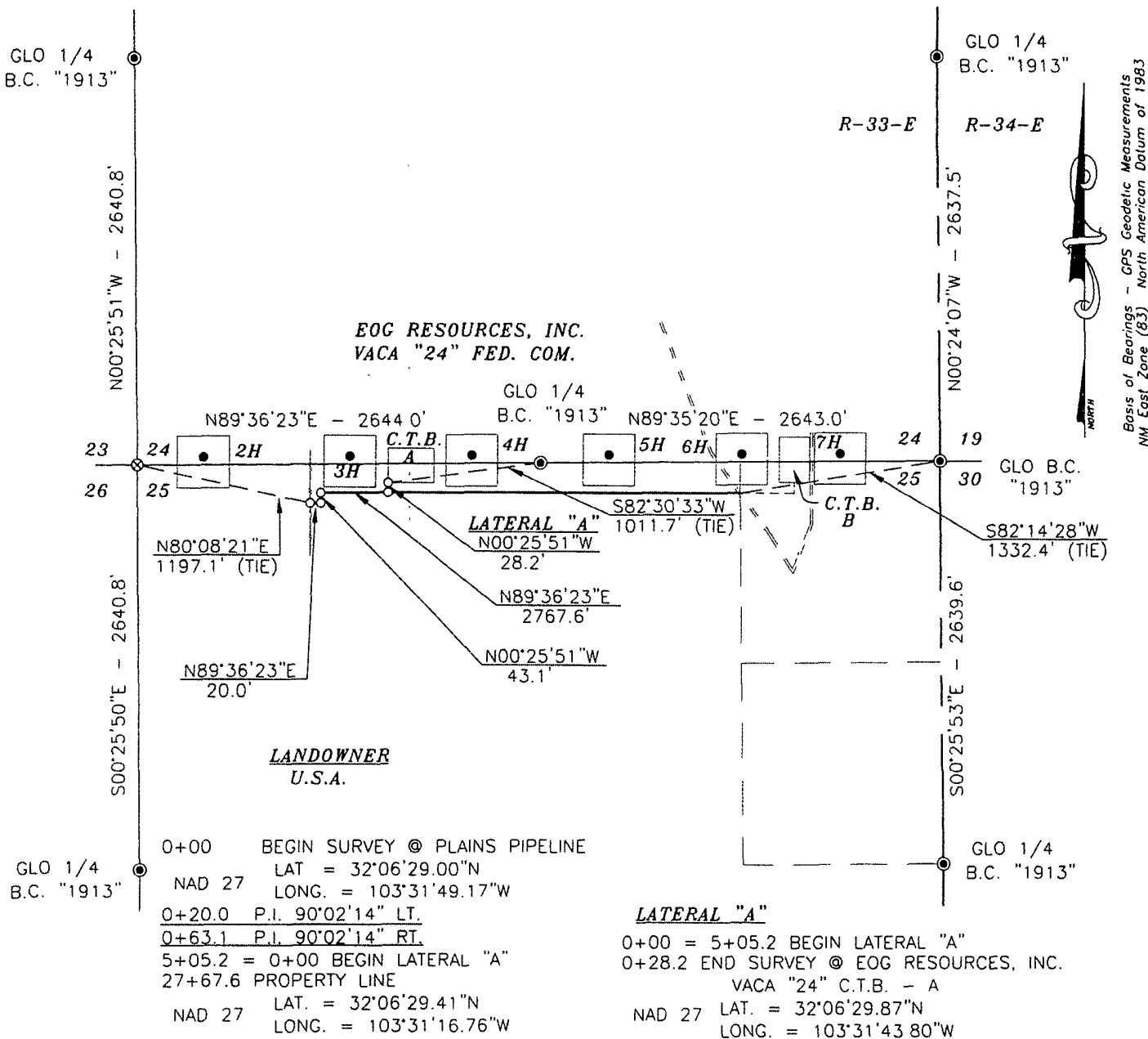
SURVEY FOR AN ELECTRIC LINE EASEMENT CROSSING  
U.S.A. LAND IN SECTIONS 24 & 25, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/07/11	Sheet 1 of 1 Sheets
W.O. Number: 111207EL-a	Drawn By: JL
Date: 12/14/11	111207EL-a DWG Scale: 1"=1000'

SECTIONS 24 & 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY



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



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2792.8 FEET OR 0.529 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



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 12/19/2011  
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



LEGEND

- ⊙ - DENOTES FOUND MONUMENT AS NOTED  
⊗ - DENOTES CALCULATED CORNER

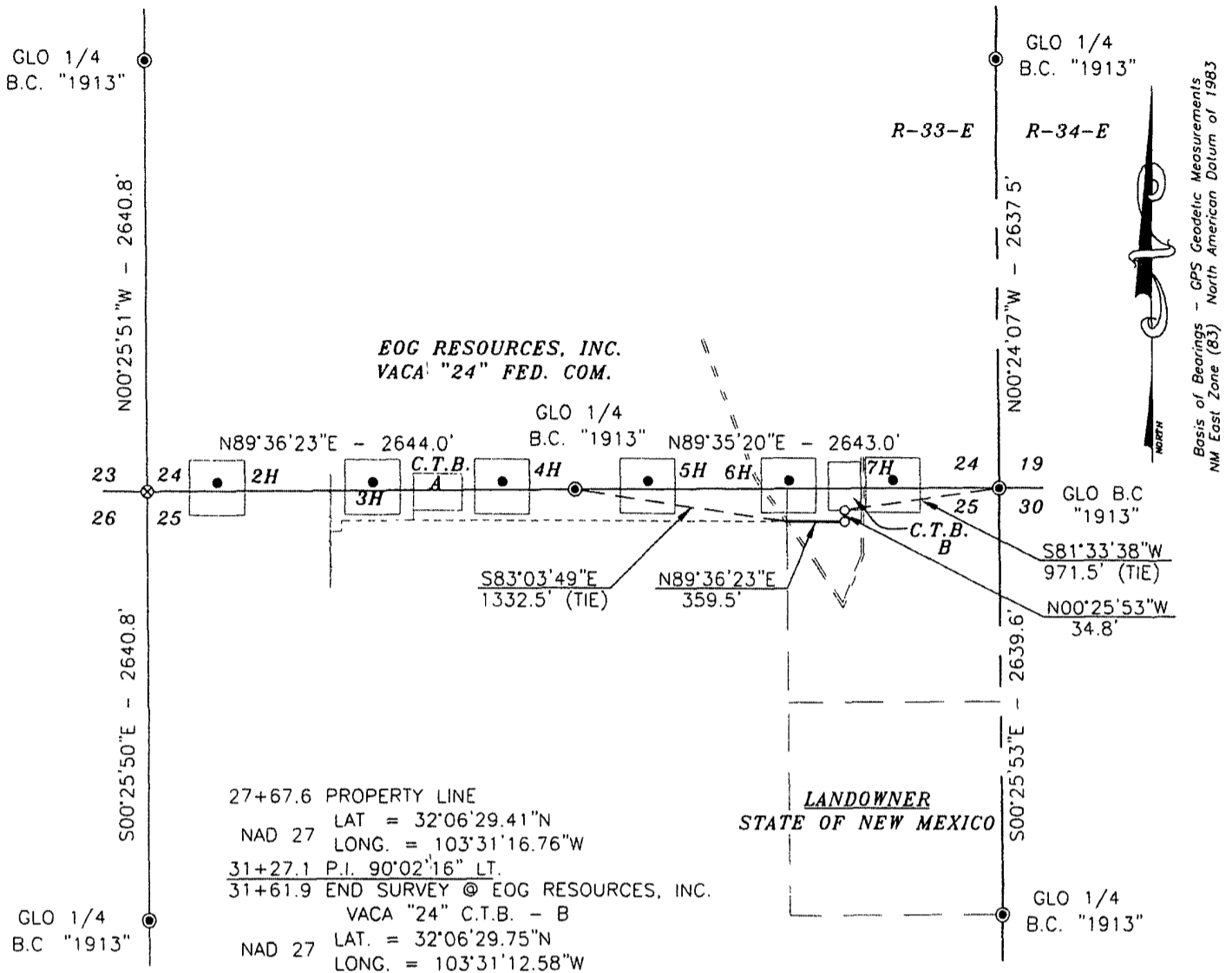
1000' 0 1000' 2000' FEET  
SCALE: 1"=1000'

EOG RESOURCES, INC.

SURVEY FOR AN OIL SALES PIPELINE EASEMENT CROSSING  
U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE  
33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 1 of 2 Sheets
W.O. Number: 111208PL-a	Drawn By: JL
Date: 12/14/11	111208PL-a.DWG Scale: 1"=1000'

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



**DESCRIPTION**

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

BEGINNING AT A POINT ON THE WEST PROPERTY LINE, WHICH LIES S83°03'49"E - 1332.5 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 25; THEN N89°36'23"E - 359.5 FEET; THEN N00°25'53"W - 34.8 FEET TO A POINT WHICH LIES S81°33'38"W - 971.5 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 25.

SAID STRIP OF LAND BEING 339.3 FEET OR 23.90 RODS IN LENGTH, CONTAINING 0.272 ACRES OF LAND MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS;

NE/4 NE/4 23.90 RODS OR 0.272 ACRES



**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* 12/19/2011  
Terry J. Asel N.M.P.S. No. 15079

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



**LEGEND**

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

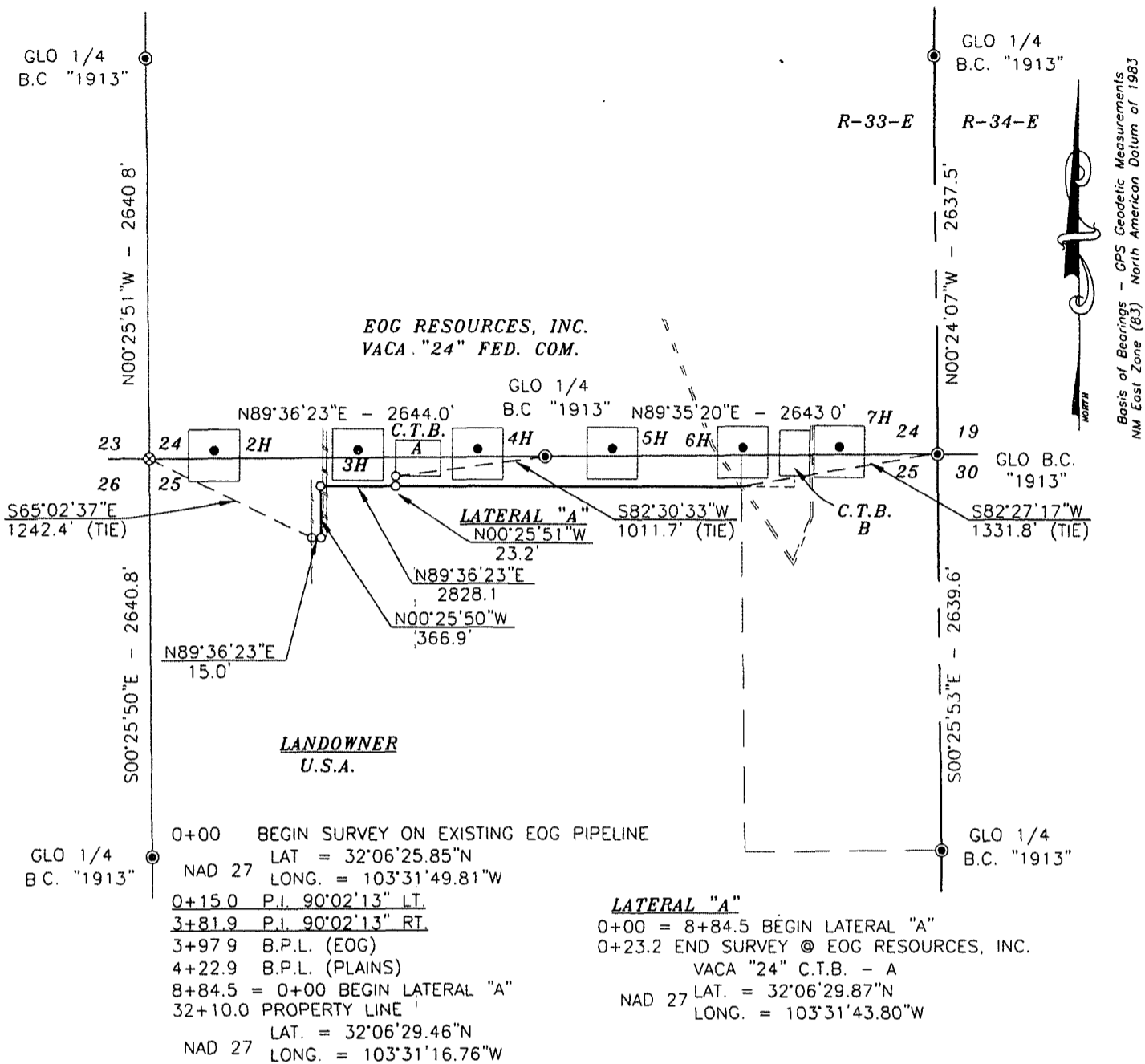
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SCALE: 1"=1000'

**EOG RESOURCES, INC.**

SURVEY FOR AN OIL SALES PIPELINE EASEMENT CROSSING  
STATE OF NEW MEXICO LAND IN SECTION 25, TOWNSHIP 25  
SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 2 of 2 Sheets
W.O. Number: 111208PL-a	Drawn By: JL
Date: 12/14/11	111208PL-a.DWG Scale: 1"=1000'

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



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 3233.2 FEET OR 0.612 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.



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* 12/19/2011  
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



LEGEND

- - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

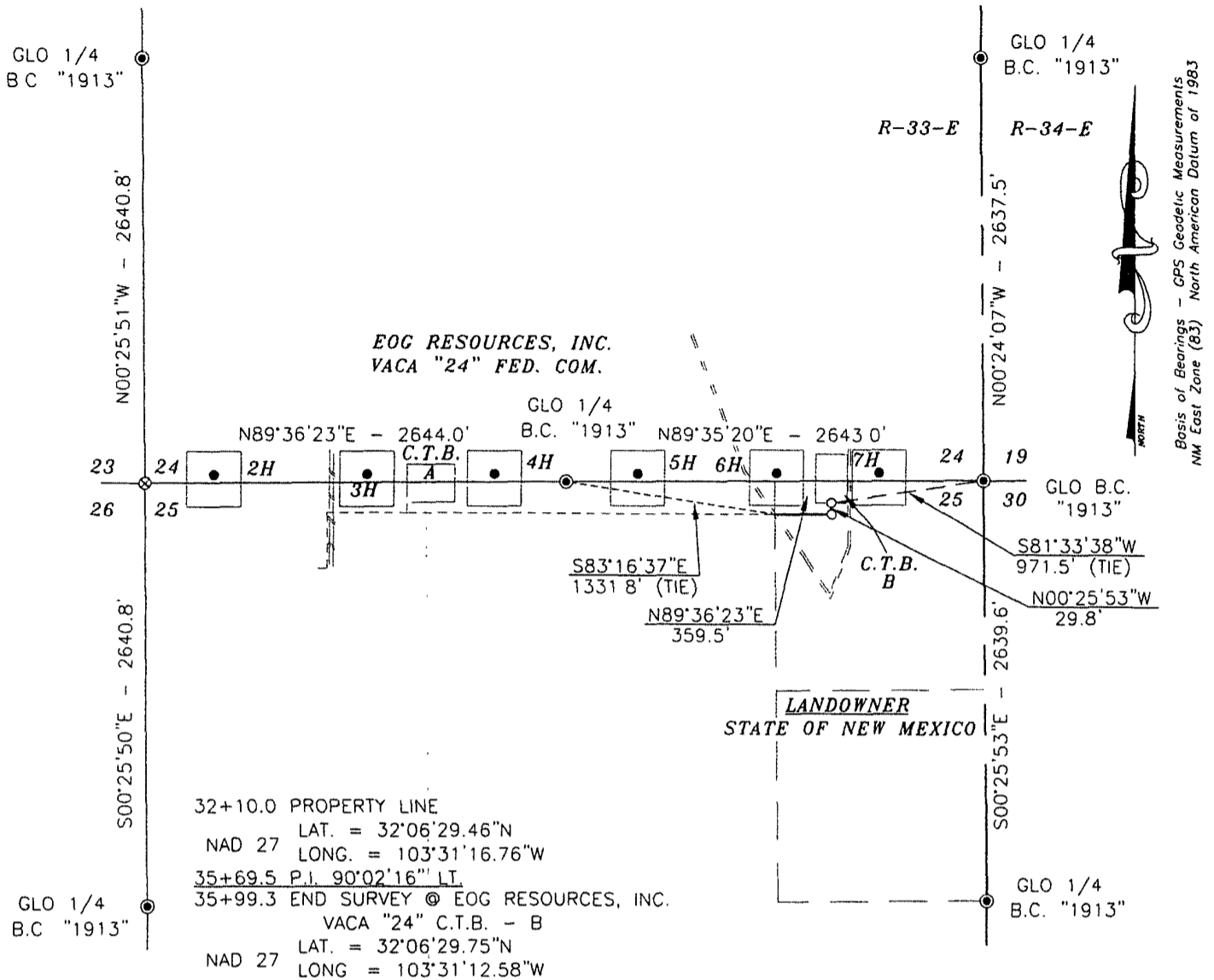
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SCALE: 1"=1000'

EOG RESOURCES, INC.

SURVEY FOR A GAS SALES PIPELINE EASEMENT CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 1 of 2 Sheets
W.O. Number: 111208PL-b	Drawn By: JL
Date: 12/14/11	111208PL-b.DWG Scale: 1"=1000'

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



**DESCRIPTION**

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

BEGINNING AT A POINT ON THE WEST PROPERTY LINE, WHICH LIES S83°16'37"E - 1331.8 FEET FROM THE NORTH QUARTER CORNER OF SAID SECTION 25, THEN N89°36'23"E - 359.5 FEET; THEN N00°25'53"W - 29.8 FEET TO A POINT WHICH LIES S81°33'38"W - 971.5 FEET FROM THE NORTHEAST CORNER OF SAID SECTION 25.

SAID STRIP OF LAND BEING 389.3 FEET OR 23.59 RODS IN LENGTH, CONTAINING 0.268 ACRES OF LAND MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS;

NE/4 NE/4 23.59 RODS OR 0.268 ACRES



**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* 12/19/2011  
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



**LEGEND**

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- ⊗ - DENOTES CALCULATED CORNER

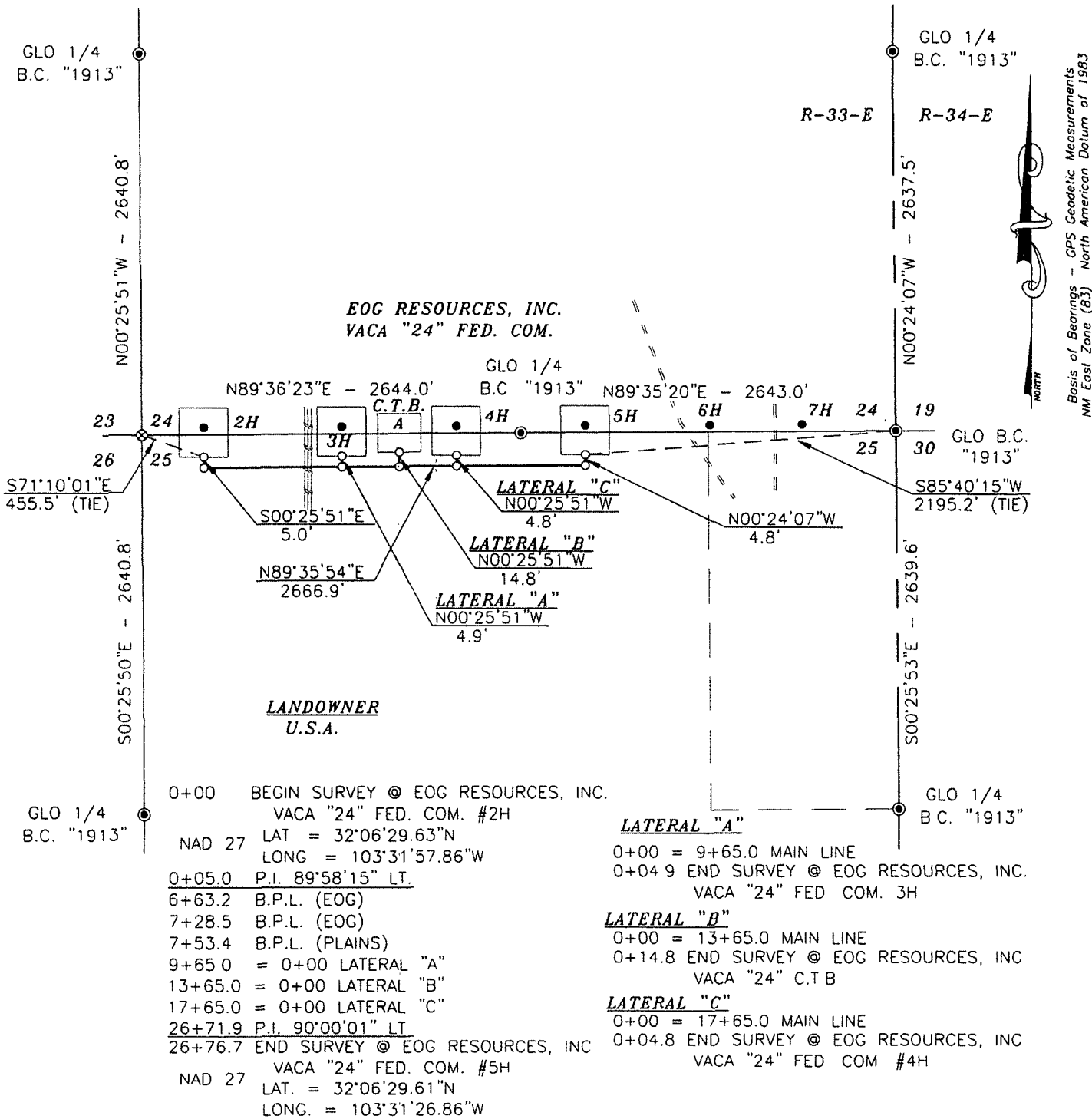
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SCALE: 1"=1000'

**EOG RESOURCES, INC.**

SURVEY FOR A GAS SALES PIPELINE EASEMENT CROSSING  
STATE OF NEW MEXICO LAND IN SECTION 25, TOWNSHIP 25  
SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 2 of 2 Sheets
W.O. Number: 111208PL-b	Drawn By: JL
Date: 12/14/11	111208PL-b.DWG Scale: 1"=1000'

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



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 2701.2 FEET OR 0.512 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY

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* 12/19/2011  
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

LEGEND

- - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

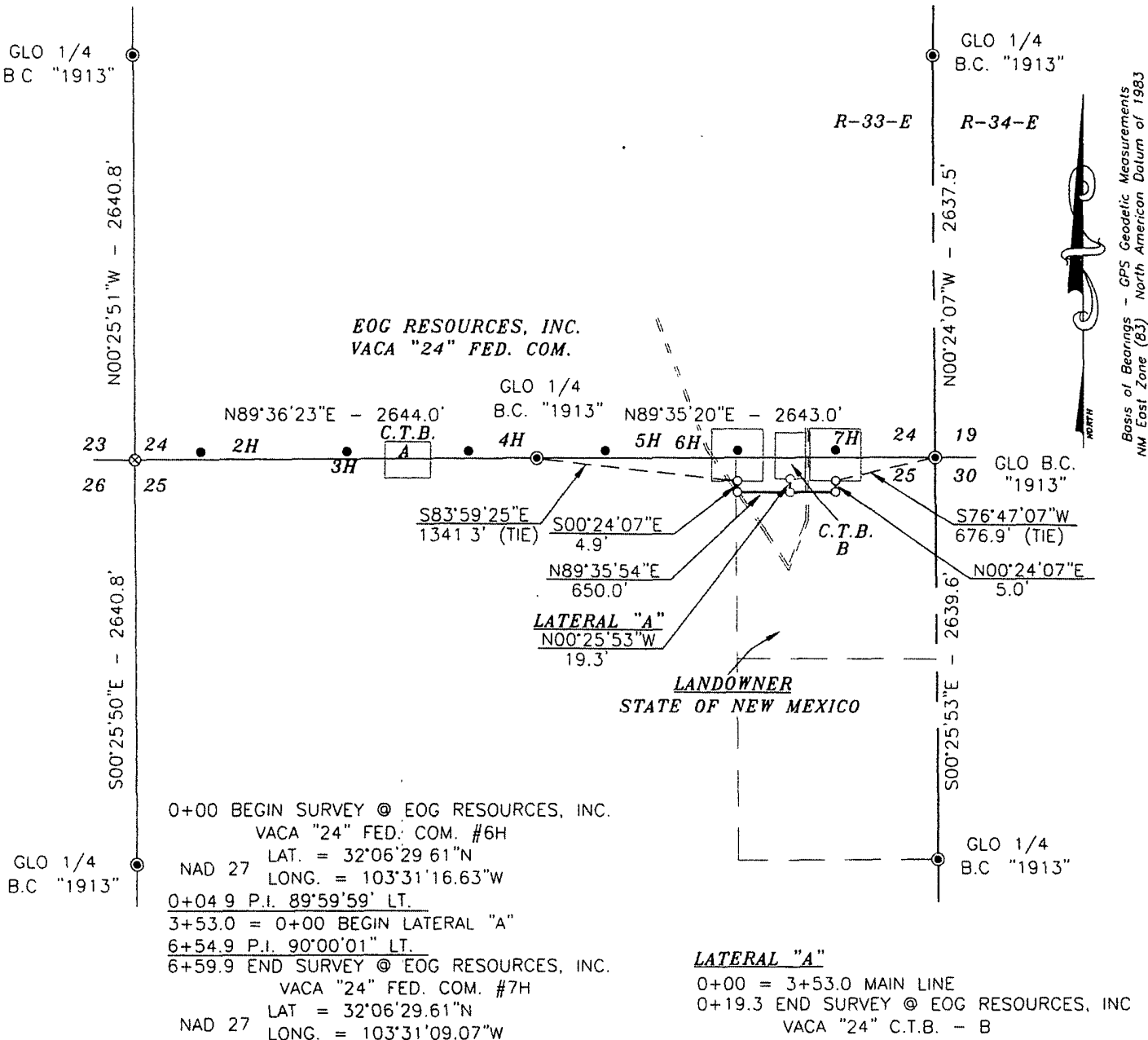
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SCALE: 1"=1000'

EOG RESOURCES, INC.

SURVEY FOR AN OIL/GAS/WATER PIPELINE EASEMENT  
CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH,  
RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 1 of 2 Sheets
W.O. Number: 111208PL-c	Drawn By: JL
Date: 12/14/11	111208PL-c.DWG Scale: 1"=1000'

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

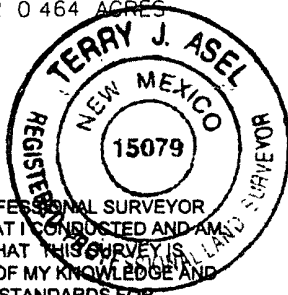


SURVEYORS CERTIFICATE

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 12/19/2011  
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

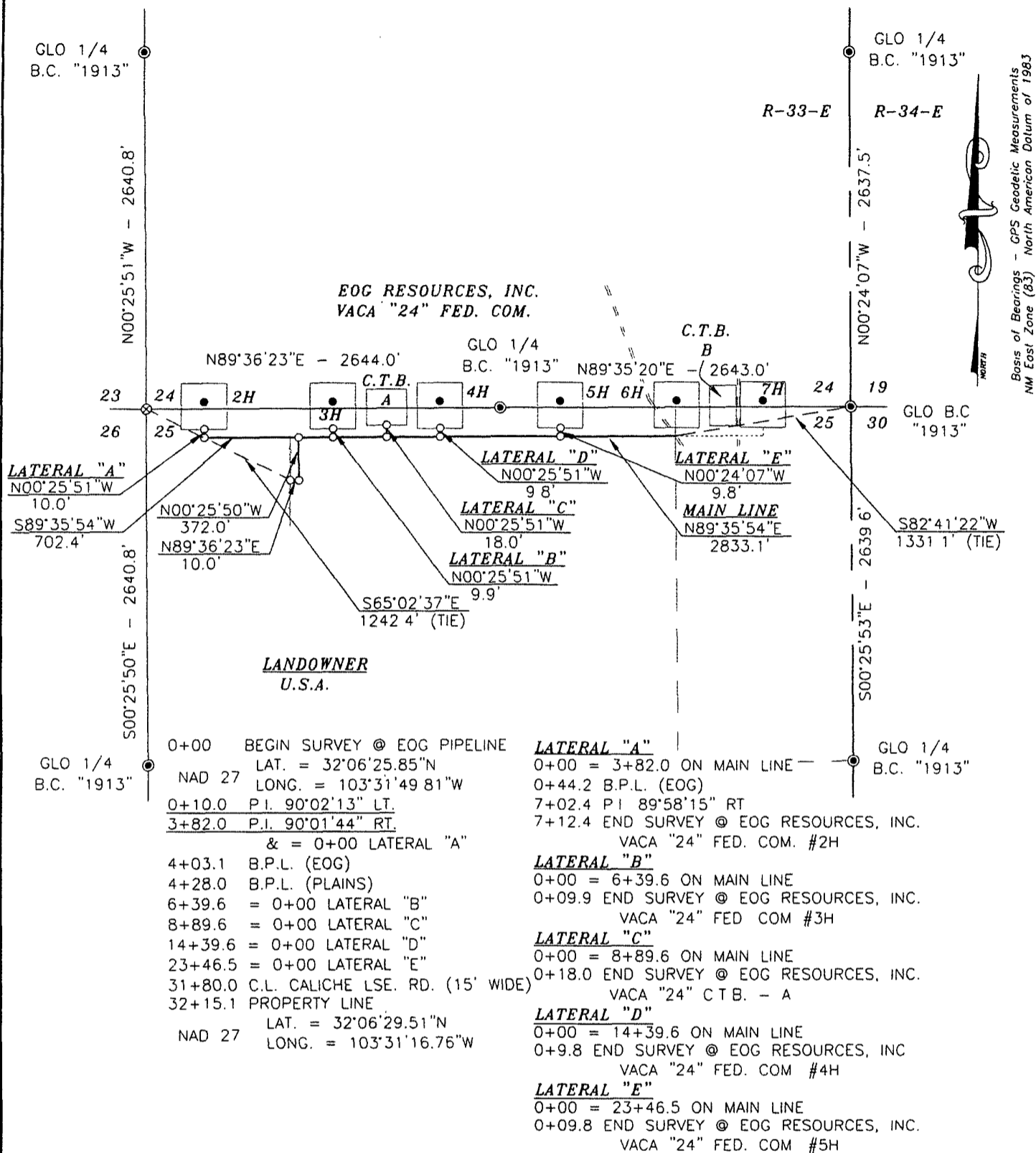


EOG RESOURCES, INC.

SURVEY FOR AN OIL/GAS/WATER PIPELINE EASEMENT  
CROSSING STATE OF NEW MEXICO LAND IN SECTION  
25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 2 of 2 Sheets
W.O. Number: 111208PL-c	Drawn By: JL
Date: 12/14/11	111208PL-c.DWG Scale: 1"=1000'

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



DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE AND 3975.0 FEET OR 0.753 MILES IN LENGTH CROSSING U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY



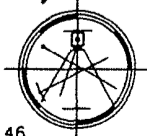
SURVEYORS CERTIFICATE

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 12/19/2011  
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



LEGEND

- ⊙ - DENOTES FOUND MONUMENT AS NOTED
- ⊗ - DENOTES CALCULATED CORNER

1000' 0 1000' 2000' FEET  
SCALE: 1"=1000'

EOG RESOURCES, INC.

SURVEY FOR A GAS LIFT PIPELINE EASEMENT CROSSING  
U.S.A. LAND IN SECTION 25, TOWNSHIP 25 SOUTH, RANGE  
33 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 1 of 2 Sheets
W.O. Number: 111208PL-d	Drawn By: JL
Date: 12/14/11	111208PL-d.DWG Scale: 1"=1000'

GLO 1/4  
B.C. "1913"



*LATERAL "F"*

LATERAL "G"

NE/4 NE/4 - 42 76 RODS OR 0.488 ACRES



Terry J. Asel 12/19/2011

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



### LEGEND

- 
- 1000' 0 1000' 2000' FEET
- SCALE: 1" = 1000'

SURVEY FOR A GAS LIFT PIPELINE EASEMENT  
CROSSING STATE OF NEW MEXICO LAND IN SECTION  
25, TOWNSHIP 25 SOUTH, RANGE 33 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

Survey Date: 12/08/11	Sheet 2 of 2 Sheets	
W.O. Number: 111208PL-d	Drawn By: JL	
Date: 12/14/11	111208PL-d.DWG	Scale: 1"=1000'

# EXHIBIT 3

## Vaca 24 Fed Com 6H

50 FSL & 1310 FEL 24-T25S-R33E SHL

2310 FSL & 1310 FEL 13-T25S-R33E BHL

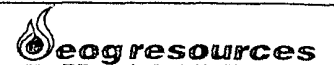
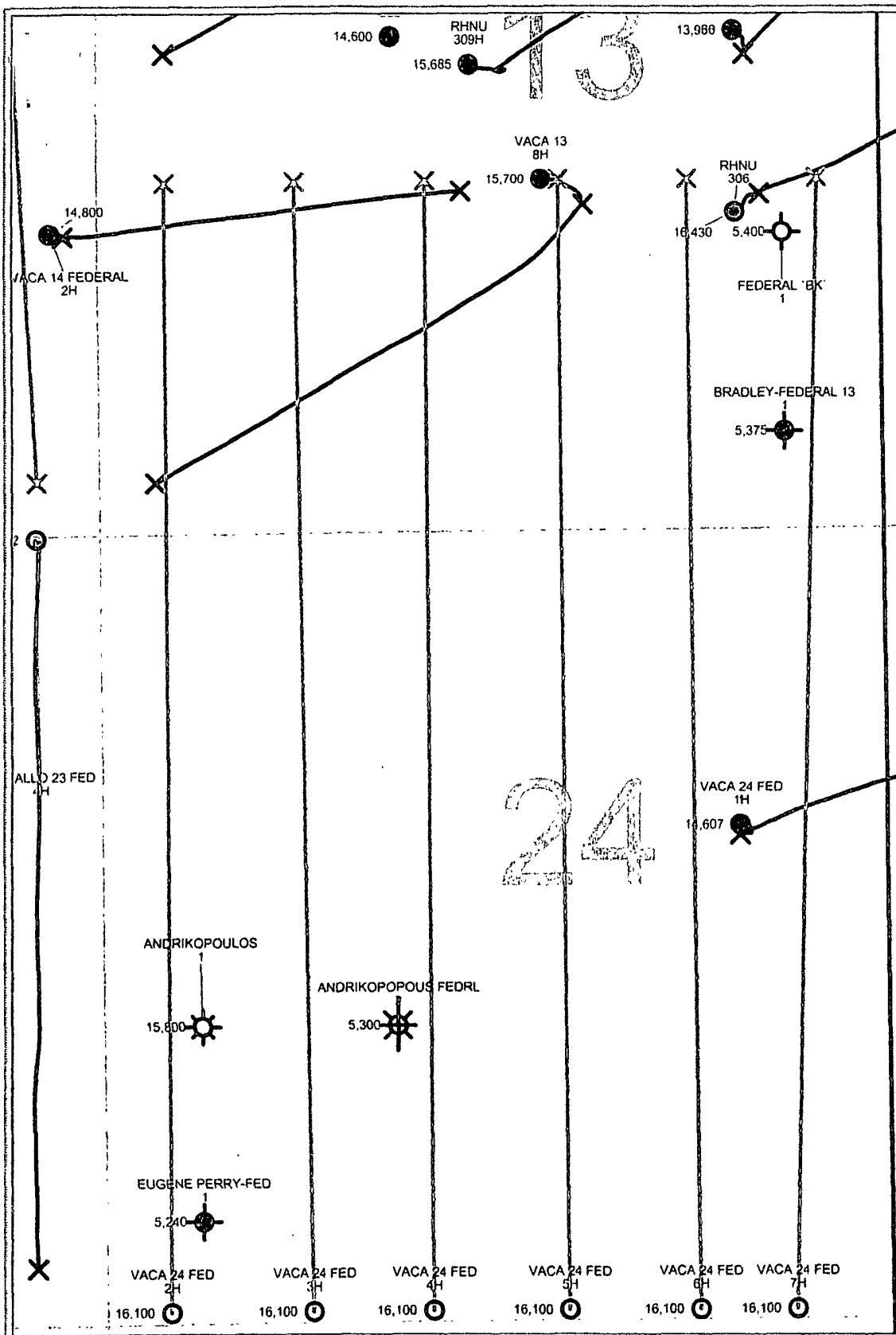
Lea County, NM

RED HILL NO.UT.  
EOG (OPER.)

MIDLAND MAP

Vaca 24 Federal Wells  
Lea County, New Mexico

SALADO  
DRAWING



New Mexico and Partial Texas

VACA 24 AREA

SECTIONS 24 & 13, T25S, R25E

ALL WELLS



POSTED WELL DATA

Well Name  
Well Number

WELL - TD

OVERLAY

File: DRILLING ACTIVITY\_TCJ.OVL

EOG LSE (OCT 2011)

SECTION LINE GRAY

TOWNSHIP LINES

COUNTY BOUNDARY

STATE BOUNDARY

REMARKS

OVERLAY:  
T:\PetraProjects\IEDDYLEA\OVERLAY\DRILLING  
ACTIVITY\_TCJ.OVL

MAP SETTINGS  
T:\PP\IEDDYLEA\MAP\_SETTINGS\TJC\COUNTY  
MAPS\LEA CO\RED HILLS AREA\LEONARD SHALE  
PLAY\MUNSELL MAPS\VACA 24 AREA - ALL WELLS  
(SECTIONS 24 and 13-T25S-R33E).MAP

By: T Jimenez

October 17, 2011

PETRA 10/17/2011 4:36:10 PM

Remarks:

The intersecting wells were drilled horizontally between 12,250' and 12,275' TVD. The proposed Vaca 24 wells will be drilled horizontally at approximately 9,450' TVD