

JUN 12 2013

RECEIVED

**SURFACE USE PLAN OF OPERATION**

SHL: 150' FNL & 170' FEL, Unit A, Section 14, T26S-R33E, N.M.P.M., Lea Co, NM  
BHL: 2411' FSL & 380' FEL, Unit I, Section 2, T26S-R33E, N.M.P.M., Lea Co, NM

An onsite inspection was conducted on Tuesday, April 7 with BLM Natural Resources Specialist Trisha Bad Bear and representatives from EOG Resources, Inc. to review the surface location, roads and infrastructure routes for the Whirling Wind 14 Fed Com #1H

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 Michael B. Brown of Topographic Land Surveyors, N.M.P.S. No. 18329.
- b. All roads into the location are depicted on Exhibits 2 & 2a.
- c. Directions to Location: Beginning in Jal at the intersection of State Hwy 18 and State Hwy 128, go west on State Hwy 128 for 14.1 miles, turn left on County Road 2 (AKA Battle Axe Road) and head southwest for 13.5 miles, then turn left on Dinwiddie Road for 1.7 miles, to a point at which the existing lease road will be routed to the north and east of the Whirling Wind 14 Fed Com #1H well pad. The proposed road will be moved a distance of 150.01 feet to the north and east to accommodate the well pad.

2. NEW OR RECONSTRUCTED ACCESS ROAD:

- a. The well site layout, Exhibit 2a shows the layout. The location will be accessed using an existing lease road that will be re-routed the location at the northwest corner of the well pad. This new lease road will wrap the north and east sides of the well pad a distance of 150.01 feet, and is depicted in the Whirling Wind Fed Com #1H Site Diagram.
- b. The maximum width of the lease road is 20'. It is crowned and consists of 6" of rolled and compacted caliche. Water will be deflected, as necessary, to avoid accumulation and prevent soil erosion.
- c. Surface material is native caliche. This material will be obtained, as needed for maintenance, from a BLM approved pit nearest in proximity to the location. The average grade will be approximately 1%.
- d. There will be no cattleguards installed at the Whirling Wind 14 Fed Com #1H well site.

3. LOCATION OF EXISTING WELLS:

JUN 18 2013

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**WHIRLING WIND 14 FED COM #1H**

Exhibit 3 shows all existing wells within a one-mile radius of the surface and bottom hole locations of this well.

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

- a. In the event the well is found to be productive, the production equipment will be located on site. Please refer to the attached production facility diagram. The production of this well will be measured for sales on lease.
- b. Applicant will lay a 6" poly buried low pressure gas sales pipeline, a distance of 4,144 feet west, that shall tie into an existing buried 6" poly surface low pressure gas sales pipeline located in section 12 T24S-R33E, which leads to a SUG sales point on the northern line of section 12 T24S-R33E. Applicant shall tie into an existing SWD pipeline, a buried 6" poly low pressure line that travels along the north of the proposed Whirling Wind 14 Fed Com #1H well pad. There are no plans at this time for a gas lift line to service the Whirling Wind 14 Fed Com #1H. Initially applicant shall have its oil trucked from the Whirling Wind 14 Fed Com #1H. Plains will be the crude oil purchaser and Flint will be the oil transport company. All pipelines described above are depicted on Exhibit 5.
- c. Electricity is available from an existing line which will be re-routed to the north and east of the well pad a distance of 174.95 feet and will service the electricity needs on the Whirling Wind 14 Fed Com #1H location from its direct offset.
- d. Refer to b above.
- e. If the well is productive, rehabilitation plans are as follows:
  - i. The location shall be reduced on the west and south sides 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, which will be stored to the west of the well pad, 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 poly pipelines using existing and proposed roads shown in Exhibit 2 & 2a. 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**

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**WHIRLING WIND 14 FED COM #1H**

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:

- a. 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.
- b. An area will be used within the proposed well site to excavate caliche.
- c. The subsoil will then be removed and stockpiled within the footages of the well location.
- d. Once caliche/mineral material is found, the material will be excavated and stockpiled within the footages of the well location.
- e. The subsoil will then be placed back in the excavated hole.
- f. 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**

- 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

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**WHIRLING WIND 14 FED COM #1H**

- 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 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.

**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 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. 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**

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**WHIRLING WIND 14 FED COM #1H**

The surface is owned by the United States of America. 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 0.50 miles of location. There is a single family residence located 0.52 miles to the northwest of the well location.
- c. Applicant will participate in the MOA.

**13. 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  
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(432) 686-3642 Office  
(361) 537-8281 Cell

Drilling

Mr. Steve Munsell  
Drilling Engineer  
EOG Resources, Inc.  
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(432) 686-3609 Office  
(432) 894-1256 Cell

Operations

Mr. Howard Kemp  
Production Manager  
EOG Resources, Inc.  
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(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

## 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 11th day of April, 2013.

Name: Roger Motley

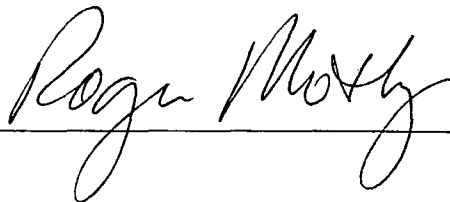
Position: Sr. Lease Operations ROW Representative

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

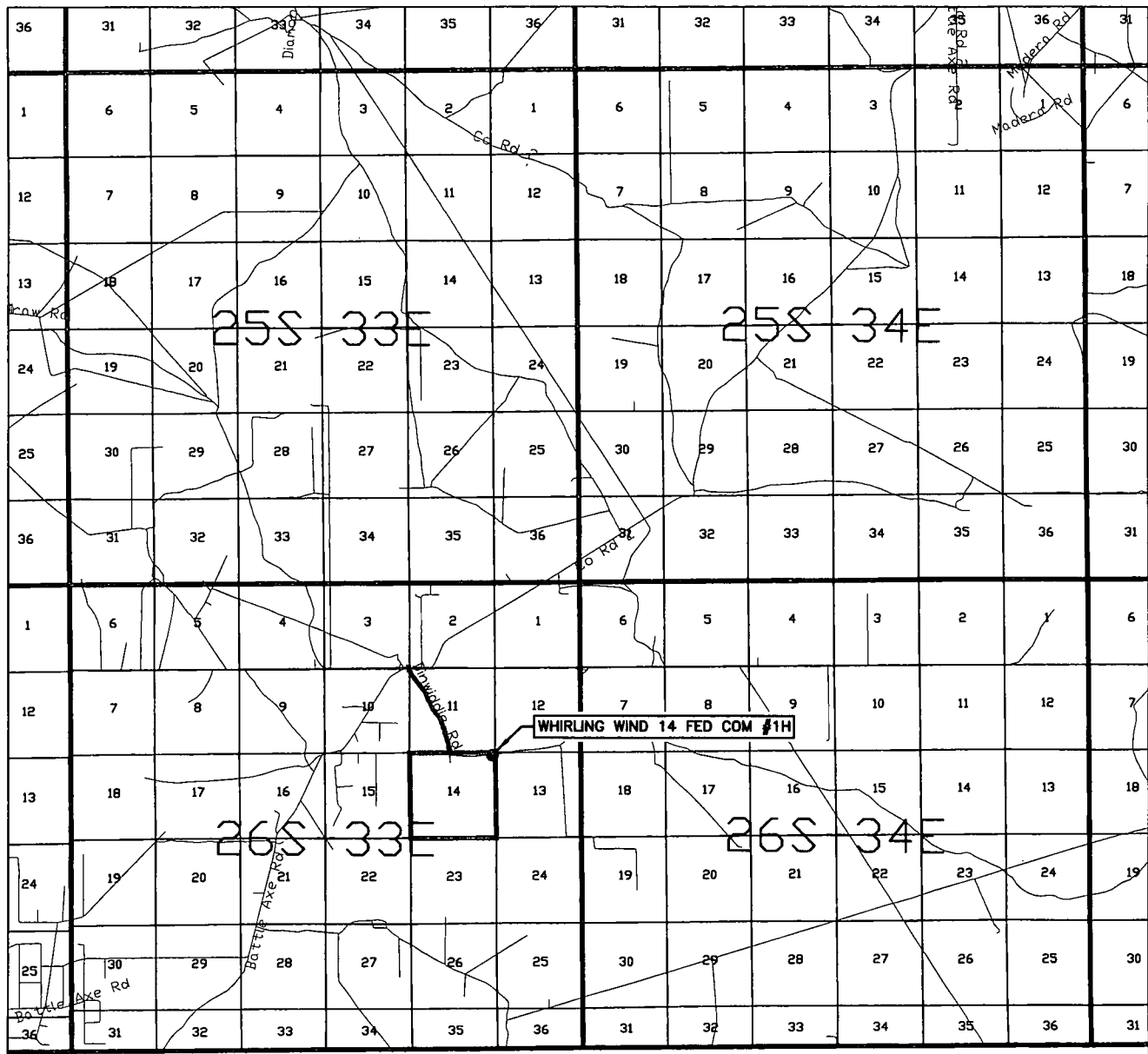
Telephone: (432) 686-3642

Email: roger\_motley@eogresources.com

Signed \_\_\_\_\_

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

## VICINITY MAP

LEASE NAME & WELL NO.: WHIRLING WIND 14 FED COM #1HSECTION 14 TWP 26-S RGE 33-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 150' FNL & 170' FEL

DISTANCE & DIRECTION FROM INT. OF NM-18 N & NM-128,  
GO WEST ON NM-128 W ±14.1 MILES, THENCE SOUTHWEST  
(LEFT) ON CR. 2/BATTLE AXE RD. ±13.5 MILES, THENCE  
SOUTHEAST (LEFT) ON DINWIDDIE RD. ±1.7 MILES TO A POINT  
±90 FEET NORTH OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY EOG RESOURCES, INC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1927, U.S. SURVEY FEET.



SCALE: 1" = 10000'  
 0' 5000' 10000'

# TOPOGRAPHIC

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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705

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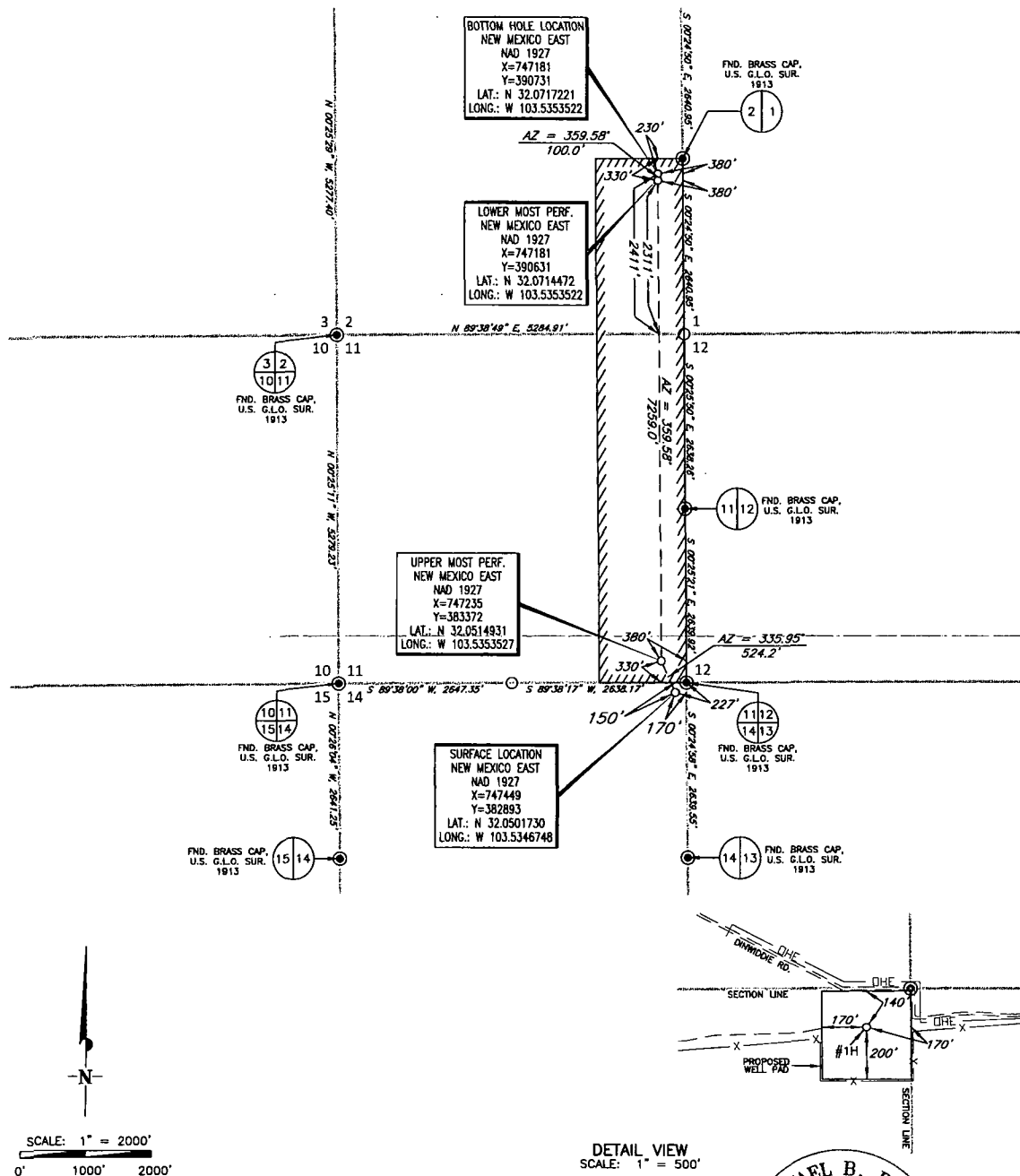
2225 PERRYTON PARKWAY • PAMPA, TEXAS 79065

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SECTION 14, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: WHIRLING WIND 14 FED COM #1H

SECTION 14 TWP 26-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM  
DESCRIPTION 150' FNL & 170' FEL

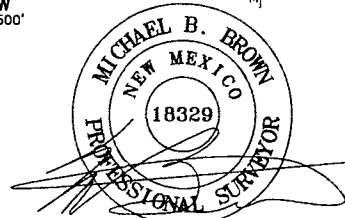
DISTANCE & DIRECTION FROM INT. OF NM-18 N & NM-128,  
GO WEST ON NM-128 W  $\pm 14.1$  MILES, THENCE SOUTHWEST  
(LEFT) ON CR. 2/BATTLE AXE RD.  $\pm 13.5$  MILES, THENCE  
SOUTHEAST (LEFT) ON DINWIDDIE RD.  $\pm 1.7$  MILES TO A POINT  
 $\pm 90$  FEET NORTH OF THE LOCATION.

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ORIGINAL DOCUMENT SIZE: 8.5" X 14"

**DETAIL VIEW**  
SCALE: 1" = 500'



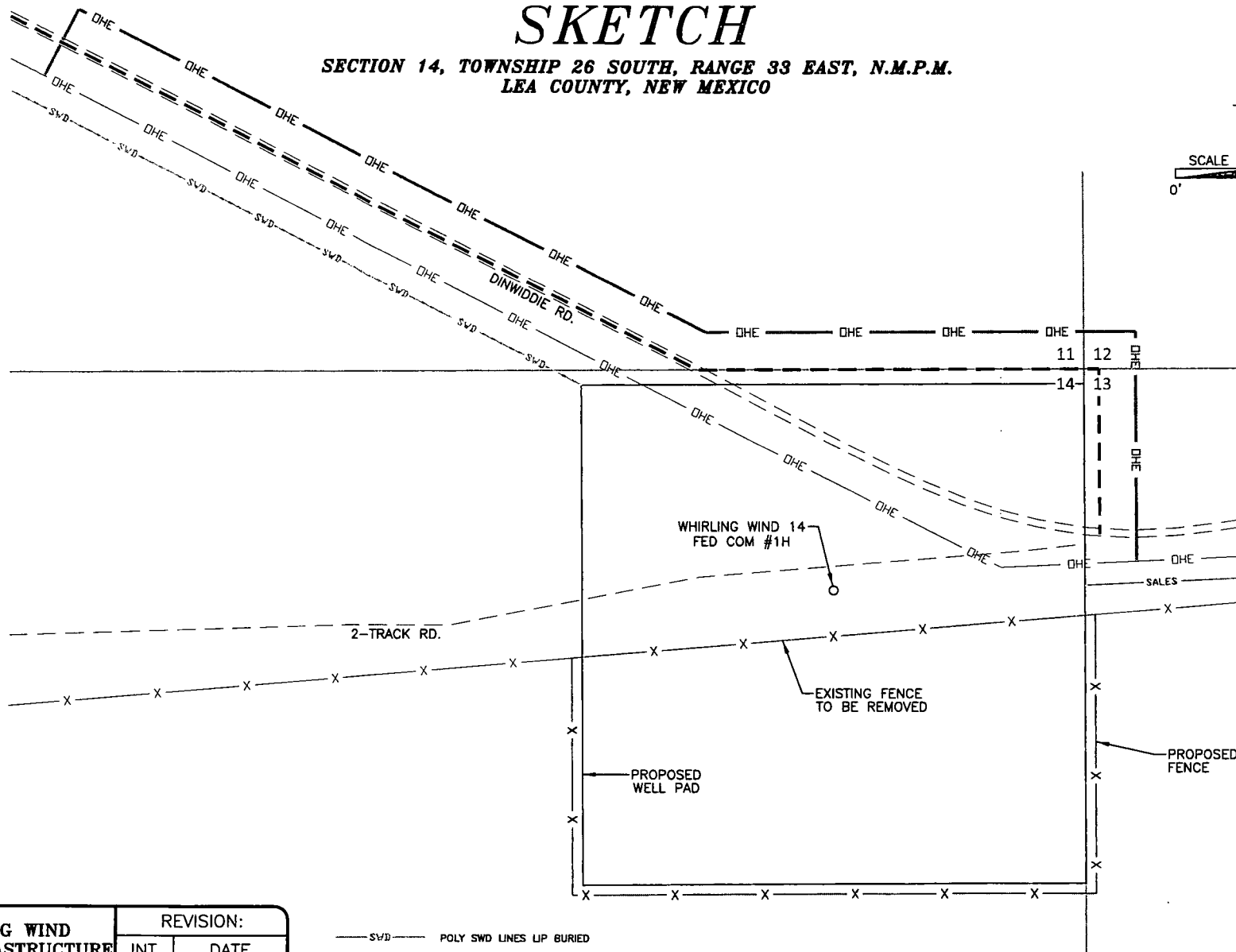
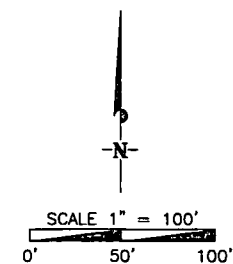
Michael Blake Brown, P.S. No. 18329  
APRIL 9, 2013

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TELEPHONE: (806) 665-7218 • FAX (806) 665-7210  
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# SKETCH

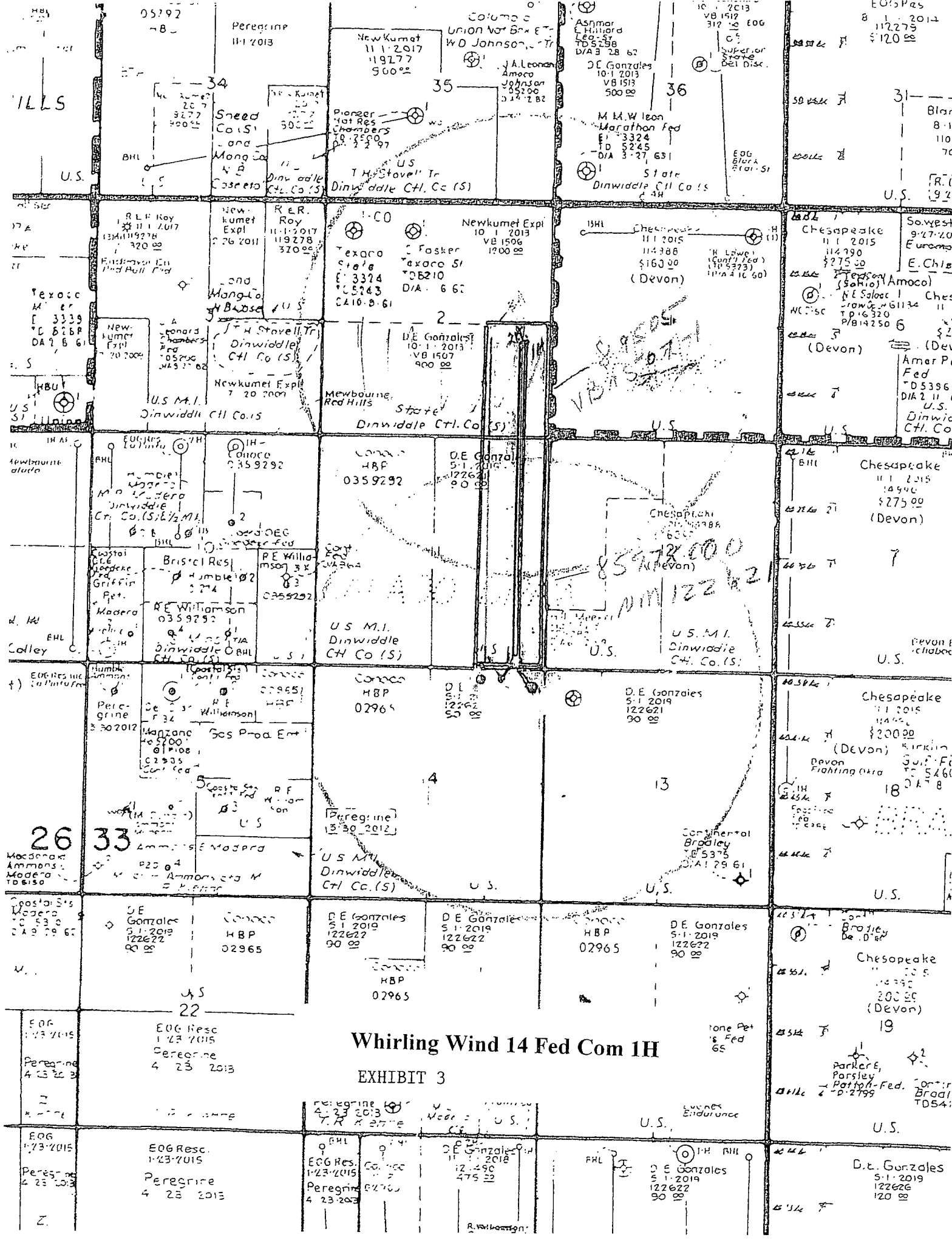
SECTION 14, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



WHIRLING WIND LEASE INFRASTRUCTURE WELL PAD SITE	REVISION:	
	INT	DATE
DATE: APRIL 8, 2013		
FILE: SK WHIRLING WIND LEASE INFRASTRUCTURE WELL PAD SITE		
DRAWN BY: S.V.		
SHEET : 1 OF 1		

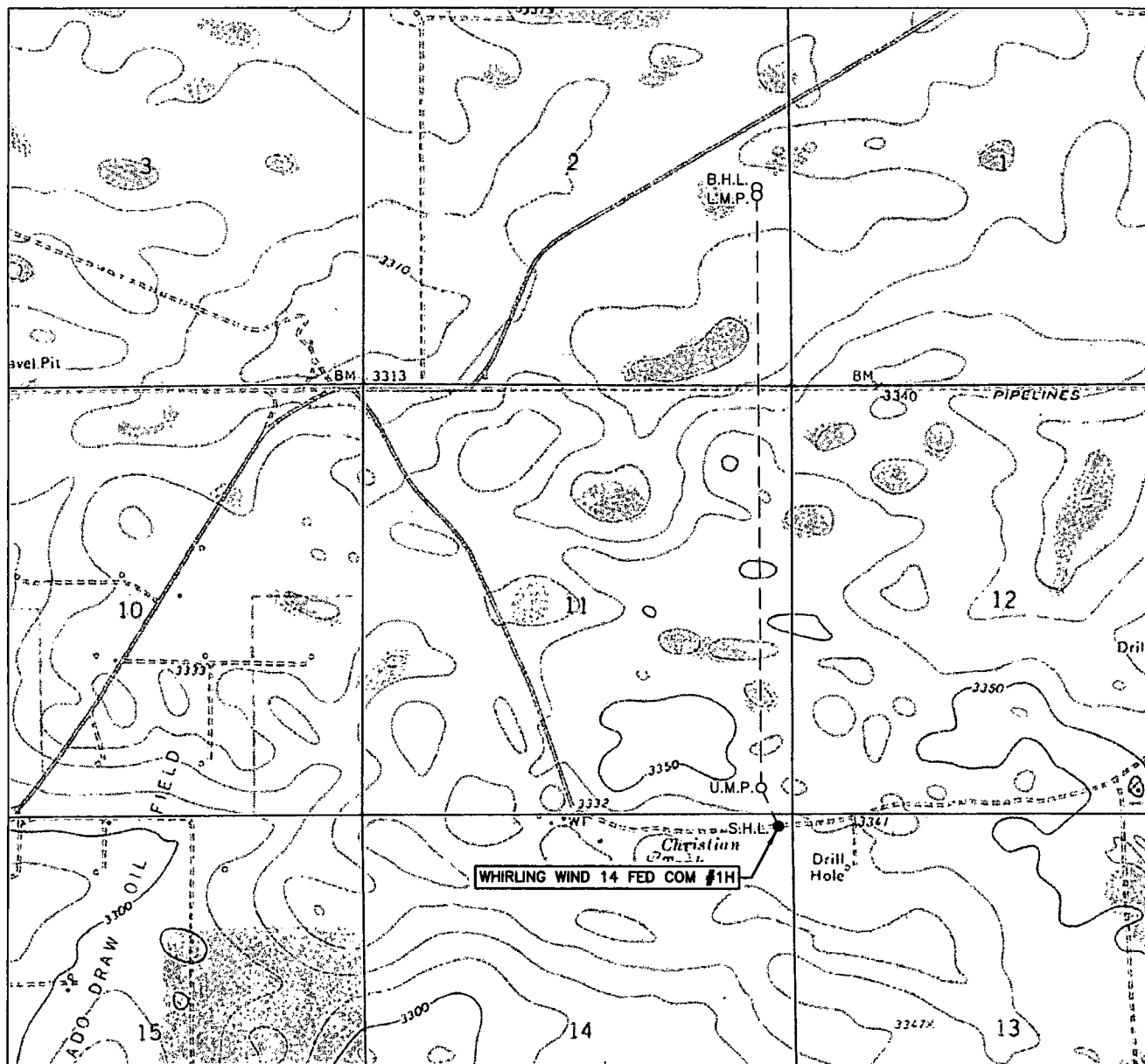
- SVD — POLY SVD LINES LIP BURIED
- SALES — 4" BURIED OIL SALES LINE
- DHE — OVERHEAD ELECTRIC LINE
- - - PROPOSED ROAD
- X — PROPOSED FENCE

 **eog resources, inc.**



Whirling Wind 14 Fed Com 1H  
EXHIBIT 3

# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: WHIRLING WIND 14 FED COM #1H

SECTION 14 TWP 26-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3337'  
 DESCRIPTION 150' FNL & 170' FEL

LATITUDE N 32.0501730 LONGITUDE W 103.5346748



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

## TOPOGRAPHIC

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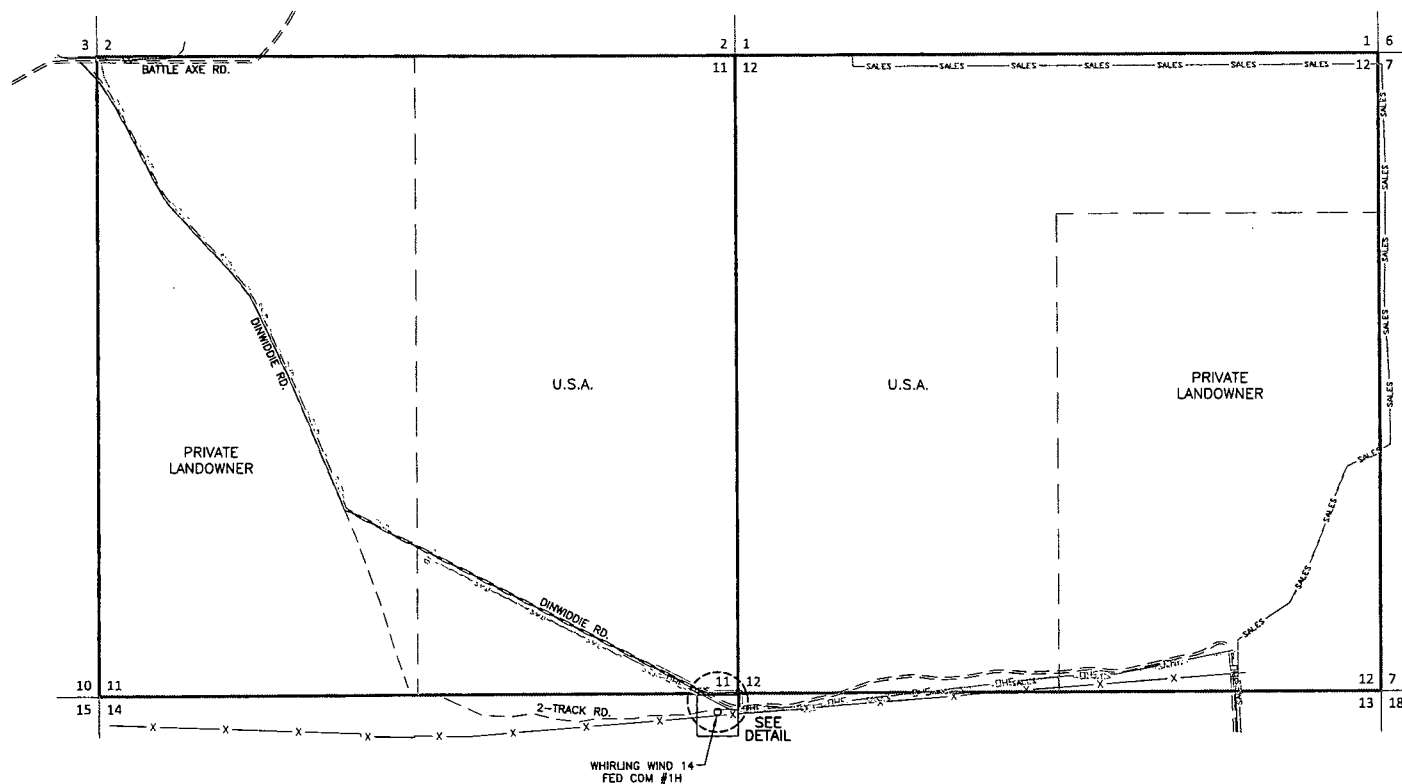
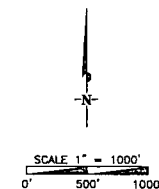
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1653 • FAX (432) 682-1743  
 1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140  
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 2225 PERRYTON PARKWAY • PAMPA, TEXAS 79065  
 TELEPHONE: (806) 665-7218 • FAX (806) 665-7210  
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SECTIONS 11, 12, 13, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO

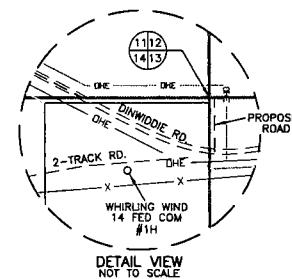
# WHIRLING WIND LEASE INFRASTRUCTURE MAP



WHIRLING WIND LEASE INFRASTRUCTURE MAP	REVISION:	
	INT	DATE
DATE: APRIL 8, 2013		
FILE: SL WHIRLING WIND LEASE INFRASTRUCTURE MAP		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

--- 2" SWG --- POLY SWG LINES (UP BURIED)  
 --- TOTAL FOOTAGE 7,837 FT  
 --- (WORKING PRESSURE 75-125 PSI)  
 --- SALES --- 4" BURIED OIL SALES LINE  
 --- TOTAL FOOTAGE 4,144 FT  
 --- OHE --- OVERHEAD ELECTRIC LINE  
 --- TOTAL FOOTAGE 975 FT  
 --- (820 FT EXISTING OVERHEAD ELECTRIC TO BE REMOVED)  
 --- PROPOSED ROAD TO BATTLE AXE RD.  
 --- TOTAL FOOTAGE 8,057 FT  
 --- (265 FT EXISTING ROAD TO BE REMOVED)

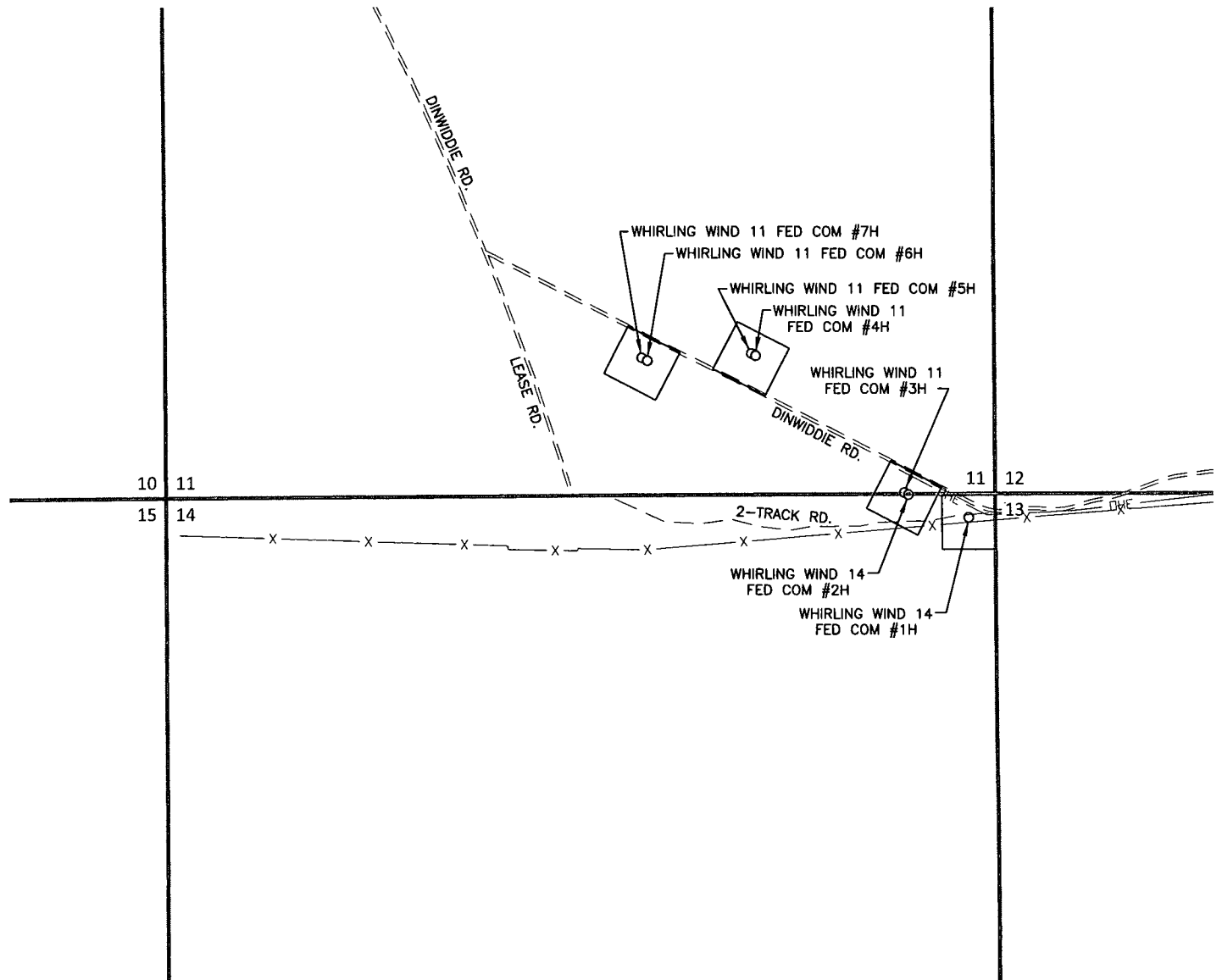
 eog resources, inc.



SCALE 1" = 1000'  
 0' 500' 1000'

# SKETCH

SECTIONS 11 & 14, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
 LEA COUNTY, NEW MEXICO



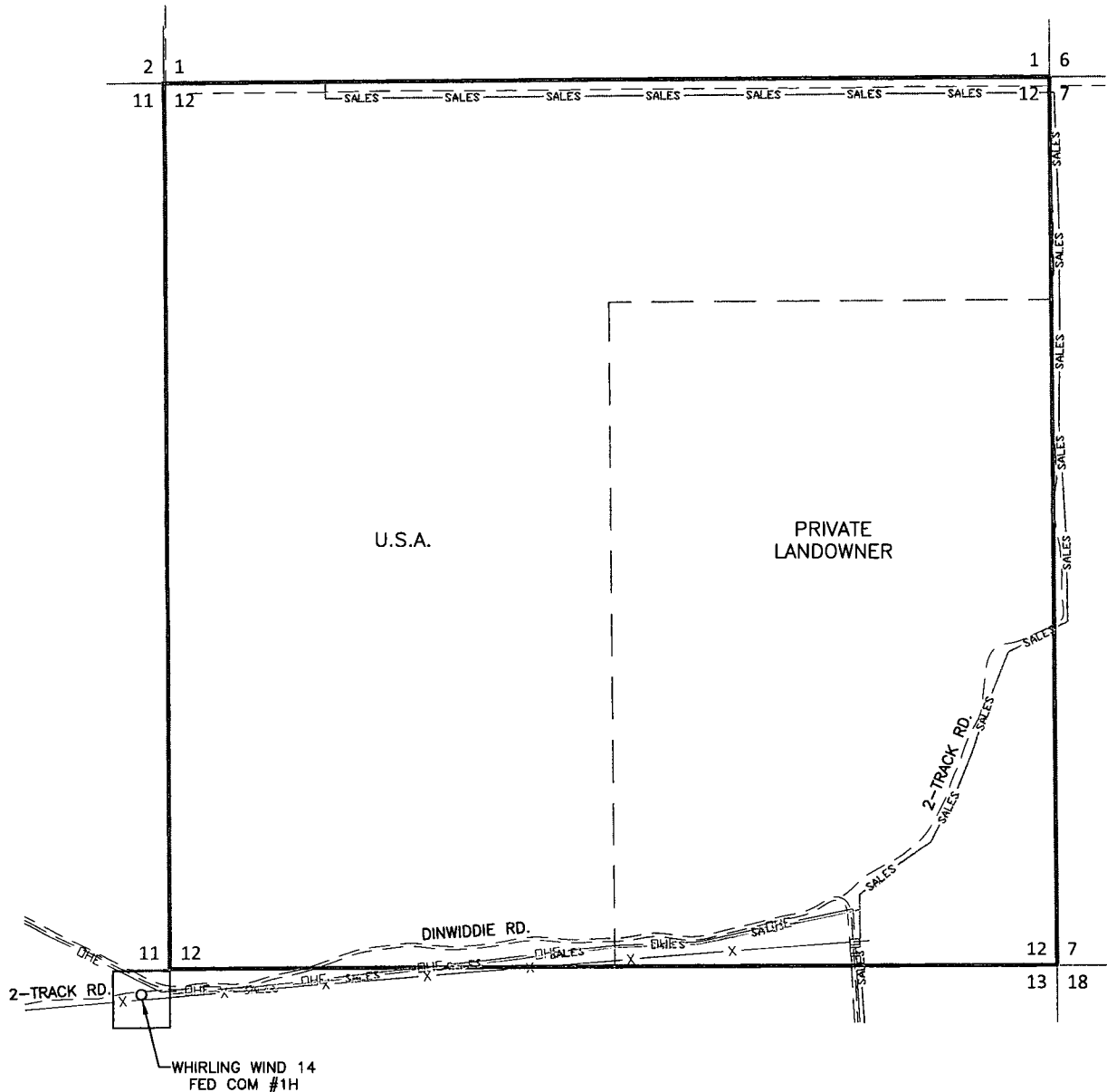
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WHIRLING WIND 11 FED & 14 FED AREA MAP	REVISION:	
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DATE: APRIL 2, 2013		
FILE: SK_WHIRLINGWIND11_14FED_AREA_MAP		
DRAWN BY: S.V.		
SHEET : 1 OF 1		

SCALE 1" = 1000'  
 0' 500' 1000'

# SKETCH

SECTIONS 12 & 13, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
 LEA COUNTY, NEW MEXICO



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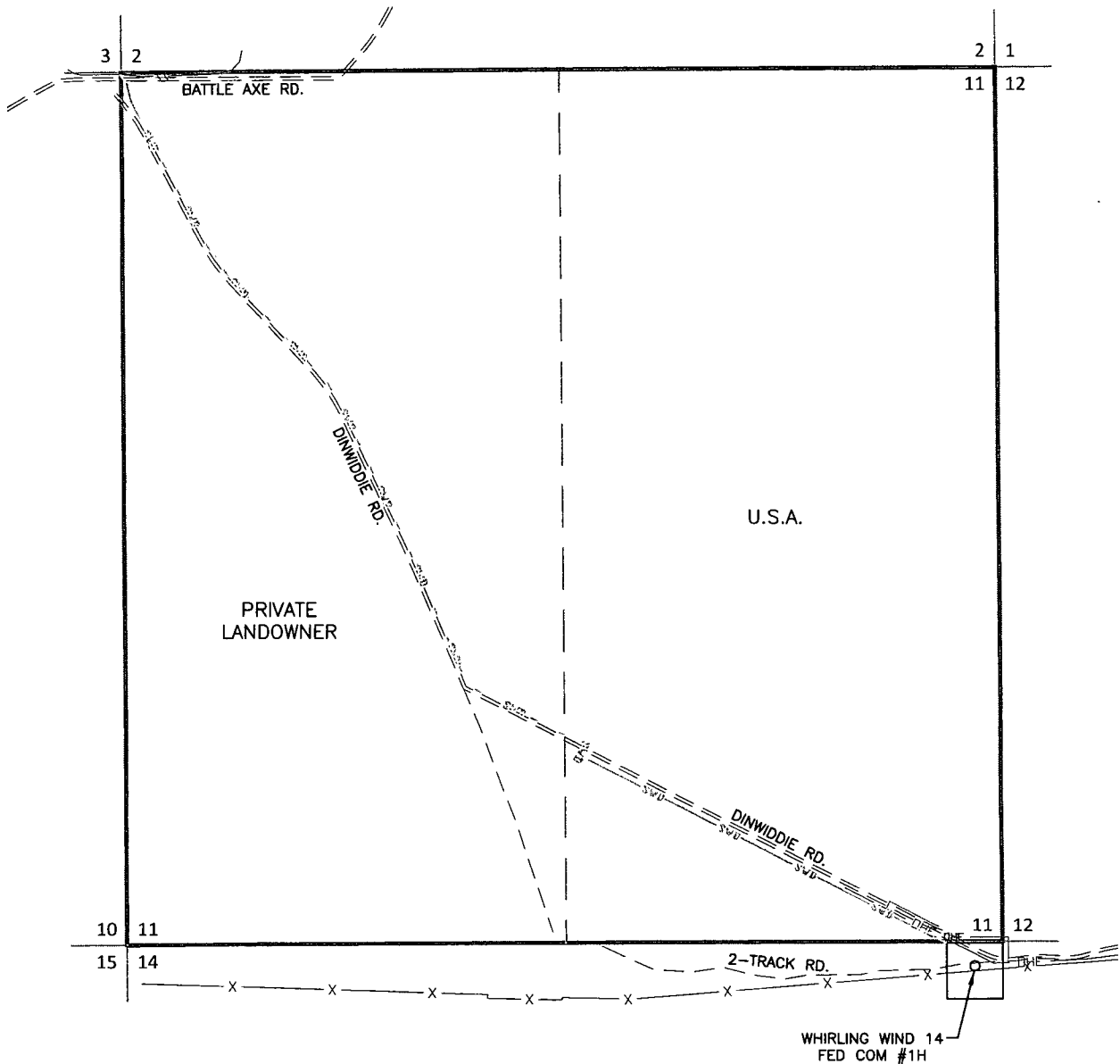
WHIRLING WIND LEASE INFRASTRUCTURE GAS SALES LINE MAP	REVISION:	
	INT	DATE
DATE: APRIL 8, 2013		
FILE: SK WHIRLING WIND LEASE INFRASTRUCTURE GAS SALES MAP		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

— SALES — 4" BURIED OIL SALES LINE  
 — TOTAL FOOTAGE 4,144 FT

SCALE 1" = 1000'  
0' 500' 1000'

# SKETCH

SECTION 11, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



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WHIRLING WIND  
LEASE INFRASTRUCTURE  
SWD & ELECTRIC  
LINES MAP

REVISION:

INT	DATE

DATE: APRIL 8, 2013

FILE: SK WHIRLING WIND INFRASTRUCTURE SWD ELECTRIC MAP

DRAWN BY: S.V.

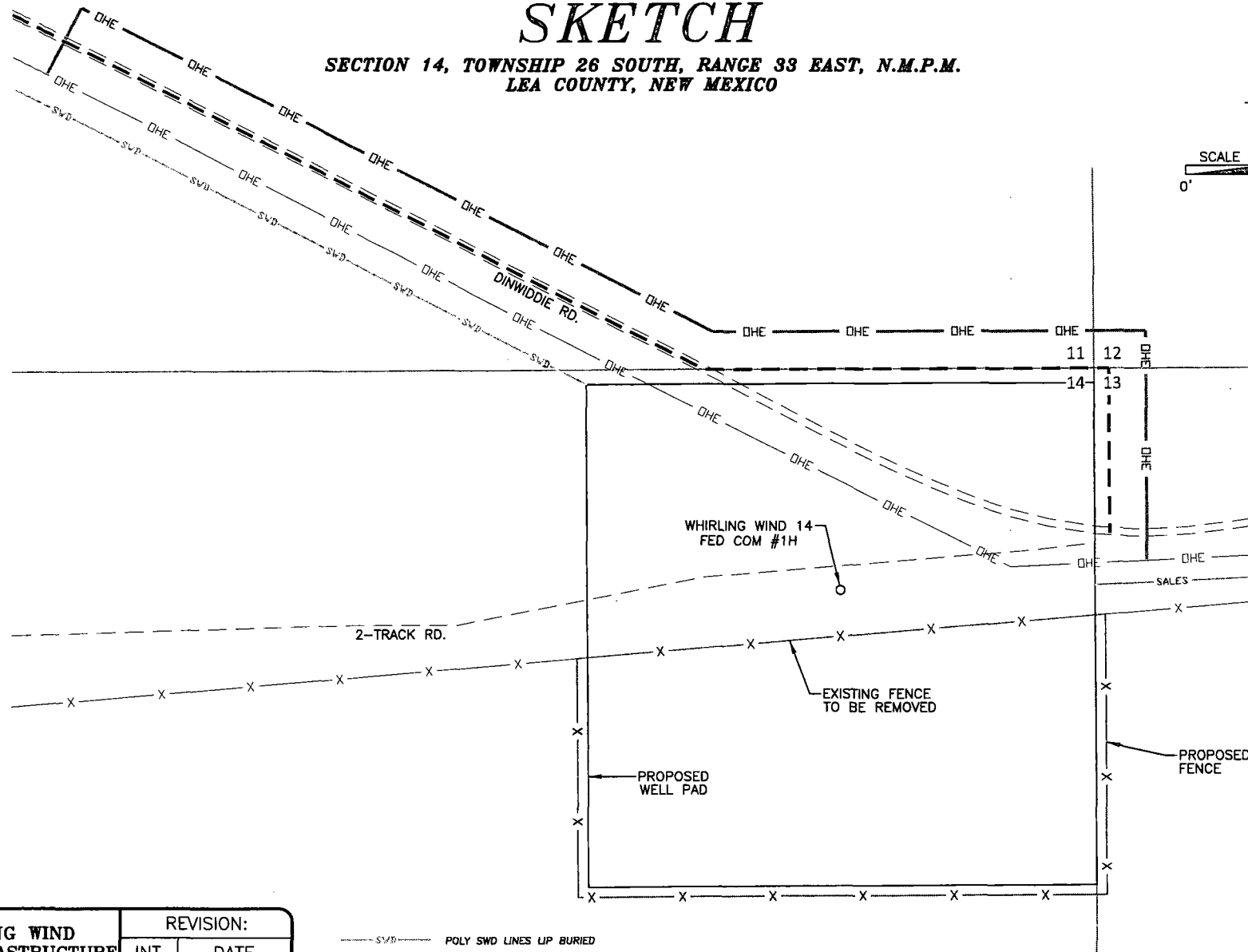
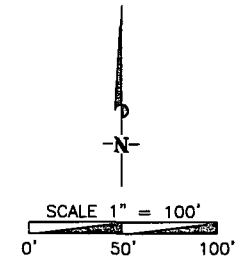
SHEET : 1 OF 1

----- SWD -----  
POLY SWD LINES LIP BURIED  
-TOTAL FOOTAGE 7,637 FT  
-(WORKING PRESSURE 75-125 PSI)

----- OHE -----  
OVERHEAD ELECTRIC LINE  
-TOTAL FOOTAGE 975 FT  
(820 FT EXISTING OVERHEAD ELECTRIC TO BE REMOVED)

# SKETCH

SECTION 14, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO



WHIRLING WIND LEASE INFRASTRUCTURE WELL PAD SITE	REVISION:	
	INT	DATE
DATE: APRIL 8, 2013		
FILE: SK WHIRLING WIND LEASE INFRASTRUCTURE WELL PAD SITE		
DRAWN BY: S.V.		
SHEET : 1 OF 1		

- SVD ----- POLY SVD LINES UP BURIED
- SALES ----- 4" BURIED OIL SALES LINE
- DHE ----- OVERHEAD ELECTRIC LINE
- PROPOSED ROAD
- X ----- PROPOSED FENCE

 **eog resources, inc.**