

Surface Use Plan of Operations

FEB 05 2014

CONOCOPHILLIPS COMPANY
 Emerald Federal #8
 330' FNL & 990' FEL of Section 17-17S-32E
 Federal Lease No: NM LC 060329
 Lea County, New Mexico

RECEIVED

This location was finalized during an onsite visit conducted March 19-20, 2013 with BLM representatives.

1. Access Road - Existing
 - A. From the junction of Lovington Hwy and Ripple Road, go southeast 0.8 miles to lease road. Turn easterly for 1.2 miles and turn north for 0.3 miles. Turn northeast 0.1 miles and then turn southeasterly for 0.4 miles. Turn north again for 0.8 miles to proposed location.
 - B. Proposed route to location - **See enclosed Aerial Map (county map) & Vicinity Map.**
 - C. The existing access road will be maintained by crowning, fixing potholes, etc. and dust suppression, according to BLM specifications, until final location reclamation is complete.
2. Access Road - Planned
 - A. Approximately 180' of new access road is needed. The access point is on the location's west side. A 20' construction right of way will be needed and all access road is on federal surface.
 - B. The maximum width of the driving surface will be 14'. The road will be crowned and ditched to BLM specifications. Caliche from an approved source will be used and compacted for the driving surface.
 - C. No turnouts will be needed.
 - D. The road will be maintained, including dust suppression, and said maintenance will continue until final abandonment and reclamation of this location.
3. Location of Existing Wells within a One-Mile Radius.
 - A. There are no water wells within a one-mile radius
 - B. There are no dry holes located within a one-mile radius.
 - C. There are at least 5 plugged and abandoned wells within a one-mile radius.
 - D. There are no saltwater disposal wells within a one-mile radius.
 - E. There is at least one proposed drill well within a one-mile radius.
 - F. There are at least 18 producing/recently drilled wells within a one-mile radius.
 - G. There is at least one shut-in well within a one-mile radius.
 - H. There is at least one injection well within a one-mile radius.
 - I. There are no monitoring or observation wells within a one-mile radius.
 - J. There is no drinking water source well within a one-mile radius.
4. Location of existing and/or Proposed Facilities
 - A. Proposed Well Pad
 1. A well pad will be constructed to accommodate the new well and associated

FEB 10 2014

production equipment. Planned dimensions are approximately 260 feet by 260 feet of working surface. Our intent is to perform interim reclamation to reduce the pad footprint after initial development phase is complete. Interim reclamation will be performed on the east, north and south sides of the pad. **See map titled "Interim Reclamation"**.

2. Topsoil will be stored to the east in a manner that avoids sand dunes. Sec. 17, T17S, R32E
3. About 311' of above ground new power line will be installed to connect to existing power source west of our location. There will also be approximately 150' of new power line buried in the well pad. **See enclosed "Electric Line Crossing" survey.**
4. This well will be placed on production. Produced fluid will utilize a flow line to the Emerald Central Facility. Facility located in the NE Qtr of the SE Qtr (Unit I) of Sec. 17, T17S, R32E. Approximately 3501' of flow line will be installed between the well head and the facility. The flow line will be <4" J-55 tubing operated at less than 125 psi. Construction disturbance width will not exceed 20'. **See enclosed "Pipeline Crossing" survey.**
5. Approximately 2.0 miles of temporary fresh water flow line will be used during completion operations, following lease roads between the well and Mitchell B-7 location where the fresh water storage tank is set.

B. Facilities Paint Color

1. All above ground existing facilities are painted an earth tone color that blends with the surrounding area. Any proposed new facilities, not including flow and power lines, will be painted Shale Green.

5. Location and Type of Water Supply

- A. Fresh water will be obtained from an approved source.
- B. No water well will be drilled on this location.

6. Source of Construction Materials

- A. Any materials needed in addition to what can be used from location and access road will be hauled in from a supplier having a permitted source of materials.
- B. If production is established, any additional construction materials required for the surfacing of the access road and for installation of the production facilities will be purchased from a supplier having a permitted source of materials.
- C. No construction materials will be taken from Federal lands without a prior approval from the appropriate Surface Management Agency.

7. Methods for Handling Waste Disposal

- A. A closed-loop system will be used for handling and containing drilling wastes. These materials will be disposed of in an approved facility.
- B. Hazardous substances as listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended, 42 U.S.C. 9601 et seq. and the regulations issued under CERCLA, will be disposed of in an appropriate permitted facility.
- C. Any spills of oil or any other potentially hazardous material will be cleaned up and removed immediately to an approved disposal site.
- D. Sewage will be disposed of according to county and state requirements in a portable chemical toilet(s). Other waste and chemicals may not be disposed of on location.

- Waste will not be burned on location.
- E. Garbage and trash will be contained in portable trash cages. The contents of trash cages will be disposed of according to county and state regulations at an approved facility. Disposal or burning it will not be allowed on the well location.
- F. After drilling rig has moved out of area, any scattered trash and litter will be removed from site.
- G. All potentially hazardous areas will be fenced and will remain in this condition until entire area can be rehabilitated.

8. Ancillary Facilities

The production facilities are discussed under Item 4.

9. Well Site Layout

- A. **See Enclosed Well Location Plat.**
- B. Well Site Layout – **See Enclosed Well Pad Detail.**
- C. Topsoil will be stripped from the location and access roads to be stockpiled, on the east side of the new location, and deposited apart from other excavated material.
- D. There will be no reserve pit on location.

10. Plans for Reclamation of the Surface

A. Interim Reclamation

1. Interim reclamation will be completed on the south, north and east sides. **See map titled "Interim Reclamation" (page 4 of 10 of plat package).**
2. If this well is a producer, all site rehabilitation shall be completed within six months. Under normal weather conditions, the timetable for rehab will allow two months for backfill settling and two months to complete final re-contouring, and top-soiling. In the event of winter freeze-up, reclamation will be put on hold as determined by the BLM.
3. Interim reclamation is to be performed according to BLM standards and currently consists of removing excess caliche (for re-use or disposal at an approved facility), turning the sides to be reclaimed so that sand and topsoil are on the surface. The sides to be reclaimed will be re-contoured, if necessary, prior to replacing the topsoil. The soil-banked material will be spread over the area. Reseeding will be performed according to BLM specifications (see 10.B.3).

B. Final Reclamation

1. At such time as the well is abandoned, ConocoPhillips Company will contact the BLM for development of the final rehabilitation plan. Upon abandonment, an erect dry hole marker welded to surface casing four feet below ground level will be installed. It will contain the same information as the well sign as directed by 43 CFR 3162.6 (30 CFR 221.22). The dry hole marker sealing the casing will have an 1/8" to 1/4" weep hole which will allow pressure to dissipate and make detection of any fluid seepage easier.
2. Caliche will be removed and disposed of in an approved facility. Re-contouring will be performed prior to topsoil being spread over location.
3. Reseeding will be an approved mixture by the BLM. If the broadcast method is utilized, the seed mixture shall be doubled.
4. There shall be no primary or secondary noxious weed seed in the native seed mixture.

5. The entire disturbed location shall be fenced after seeding. When the location has been rehabilitated and vegetation re-established, the fence shall be removed or fenced area reduced as required by the landowner or BLM.
6. Weeds will be controlled on disturbed areas within the exterior limits of the well pad. The control methods will be in accordance with guidelines established by EPA, BLM, state, and local authorities.

C. Other Reclamation Information

1. If this well site is constructed and not drilled, the site and access road will be reclaimed or BLM approved special erosion control measures implemented within 90 days of site construction unless otherwise approved in writing by sundry notice.
2. A pre-work onsite with the BLM and ConocoPhillips Company may be held for all phases of reclamation.

11. Surface Ownership

Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220-6292

12. Other Information

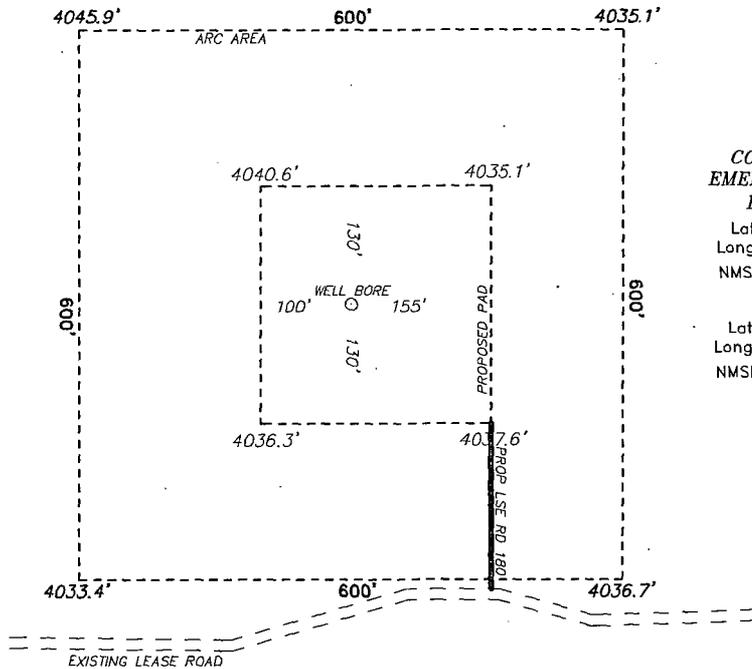
- A. ConocoPhillips Company may request that this well location be covered under the BLM MOA NM-930-2008-003. This request will be submitted under separate cover.
- B. ConocoPhillips Company will be responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. If historic or archaeological materials are uncovered, ConocoPhillips Company will suspend all operations that might further disturb such materials and immediately contact the Authorized Officer, Bureau of Land Management.

Within five (5) working days the Authorized Officer will inform ConocoPhillips Company as to whether the materials appear eligible for the National Register of Historic Places; the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and a time frame for the Authorized.

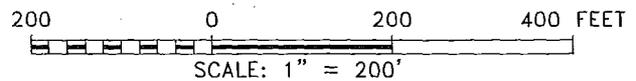
Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that mitigation is appropriate.

- C. ConocoPhillips Company will protect, in place, all public land survey monuments, private property corner, and Forest service boundary markers. In the event that any such land markers or monuments are destroyed in the exercise of their rights, depending on the type of monument destroyed, the operator shall see that they are reestablished or referenced in accordance with (1) the procedures outlined in the "Manual of Instructions for the Survey of the Public Land of the United States", (2) the specifications of the county surveyor, or (3) the specification of the BLM.
- D. ConocoPhillips Company will comply with additional Conditions of Approval provided by BLM.

SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, WELL PAD VICINITY, NEW MEXICO.



CONOCO PHILLIPS
EMERALD FEDERAL #8
ELEV. - 4037'
Lat - N 32°50'27.62"
Long - W 103°46'59.78"
NMSPCE - N 670130.3
E 710275.9
(NAD-83)
Lat - N 32°50'27.19"
Long - W 103°46'57.96"
NMSPCE - N 670065.9
E 669097.6
(NAD-27)

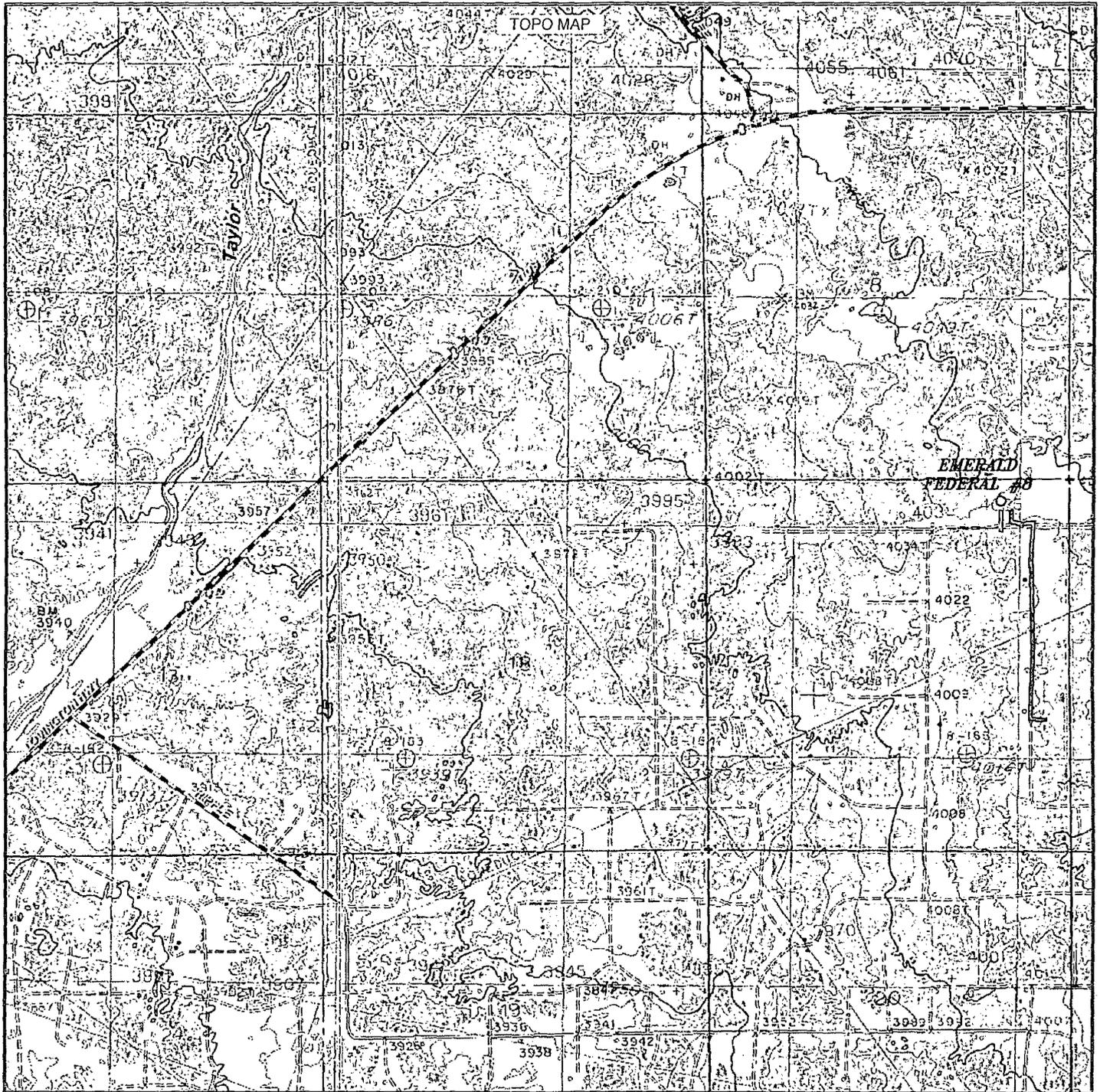


Directions to Location:

FROM THE JUNCTION OF LOVINGTON HWY AND RIPLE, GO SOUTHEAST 0.8 MILES TO LEASE ROAD, ON LEASE ROAD GO EASTERLY 1.2 MILES TURNING NORTH 0.3 MILES TURNING NORTHEAST 0.1 MILES THENCE SOUTHEASTERLY FOR 0.4 MILES TURNING NORTH AGAIN FOR 0.8 MILES TO PROPOSED LOCATION.

ConocoPhillips	
REF: EMERALD FEDERAL #8 / WELL PAD VICINITY	
THE EMERALD FEDERAL #8 LOCATED 330'	
FROM THE NORTH LINE AND 990' FROM THE EAST LINE OF	
SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST,	
N.M.P.M., LEA COUNTY, NEW MEXICO.	
W.O. Number: 28355	Drawn By: J. SMALL
Date: 04-25-2013	Disk: JMS 28355
Survey Date: 04-18-2013	Sheet 2 of 10 Sheets

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



EMERALD FEDERAL #8
 Located 330' FNL and 990' FEL
 Section 17, Township 17 South, Range 32 East,
 N.M.P.M., Lea County, New Mexico.



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 in the oilfield

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

W.O. Number: JMS 28355

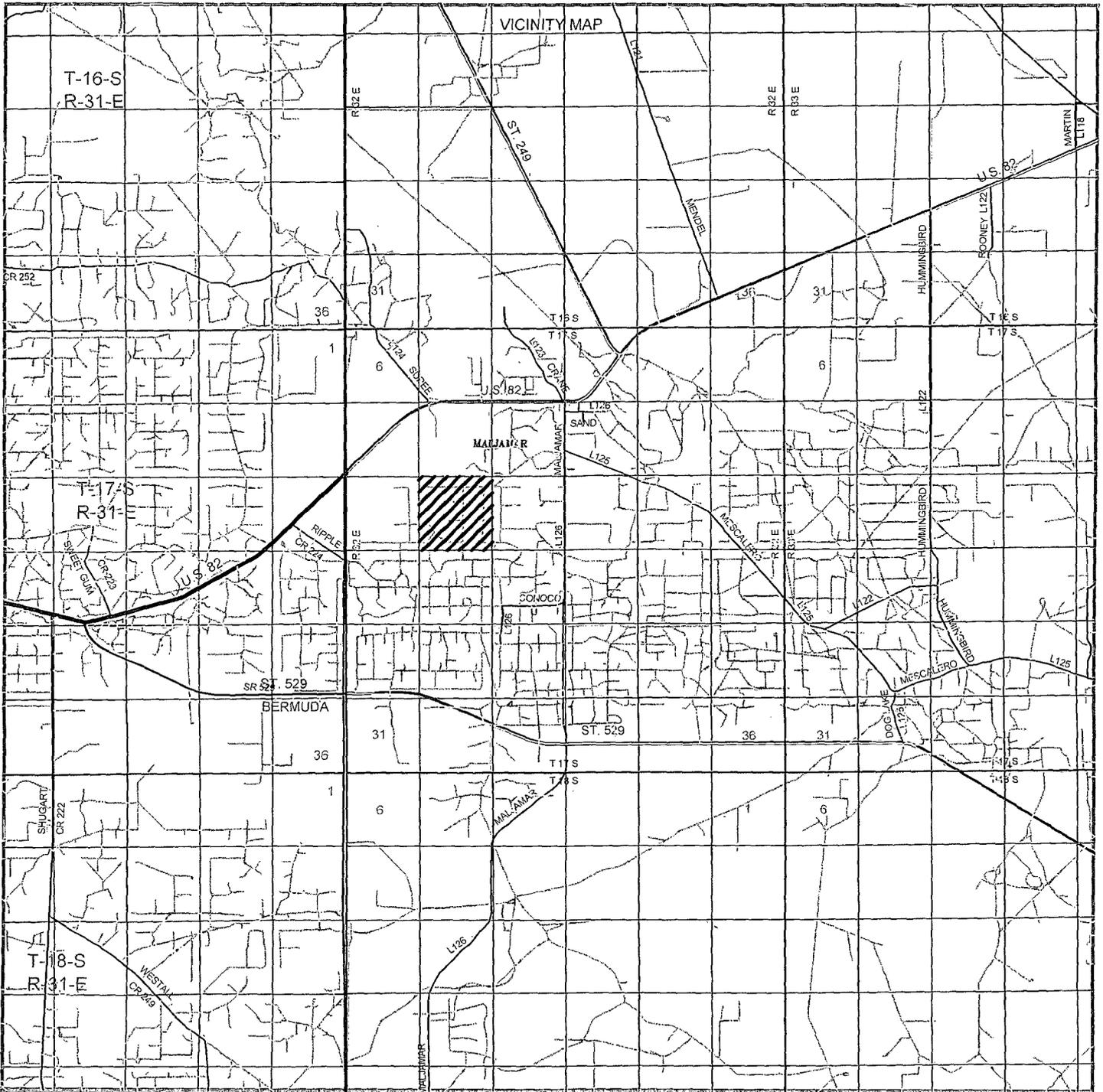
Survey Date: 04-18-2013

Scale: 1" = 2000'

Date: 04-25-2013



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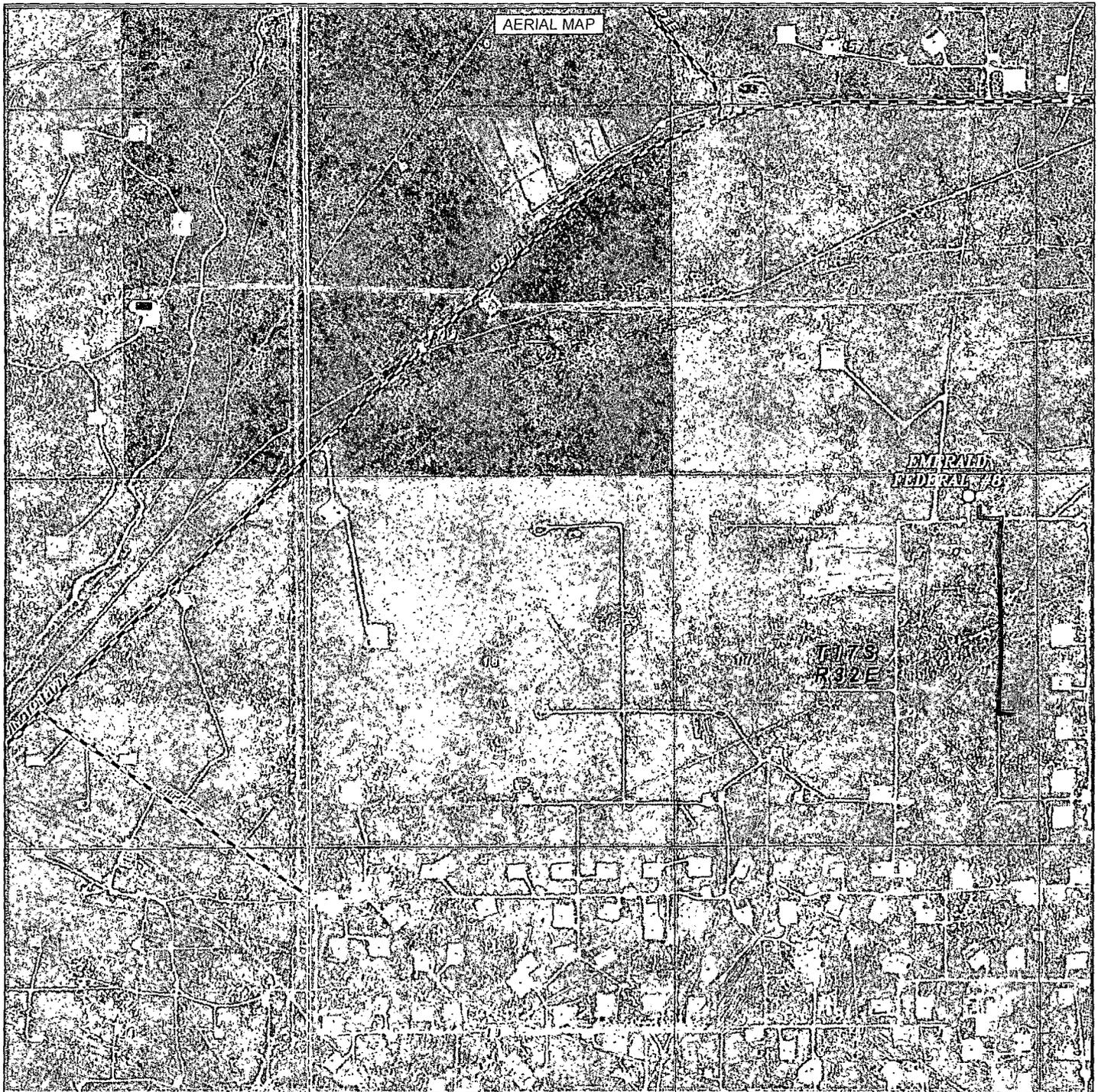
Survey Date: 04-18-2013

Scale: 1" = 2 Miles

Date: 4-25-2013



Sheet 6 of 10 Sheets



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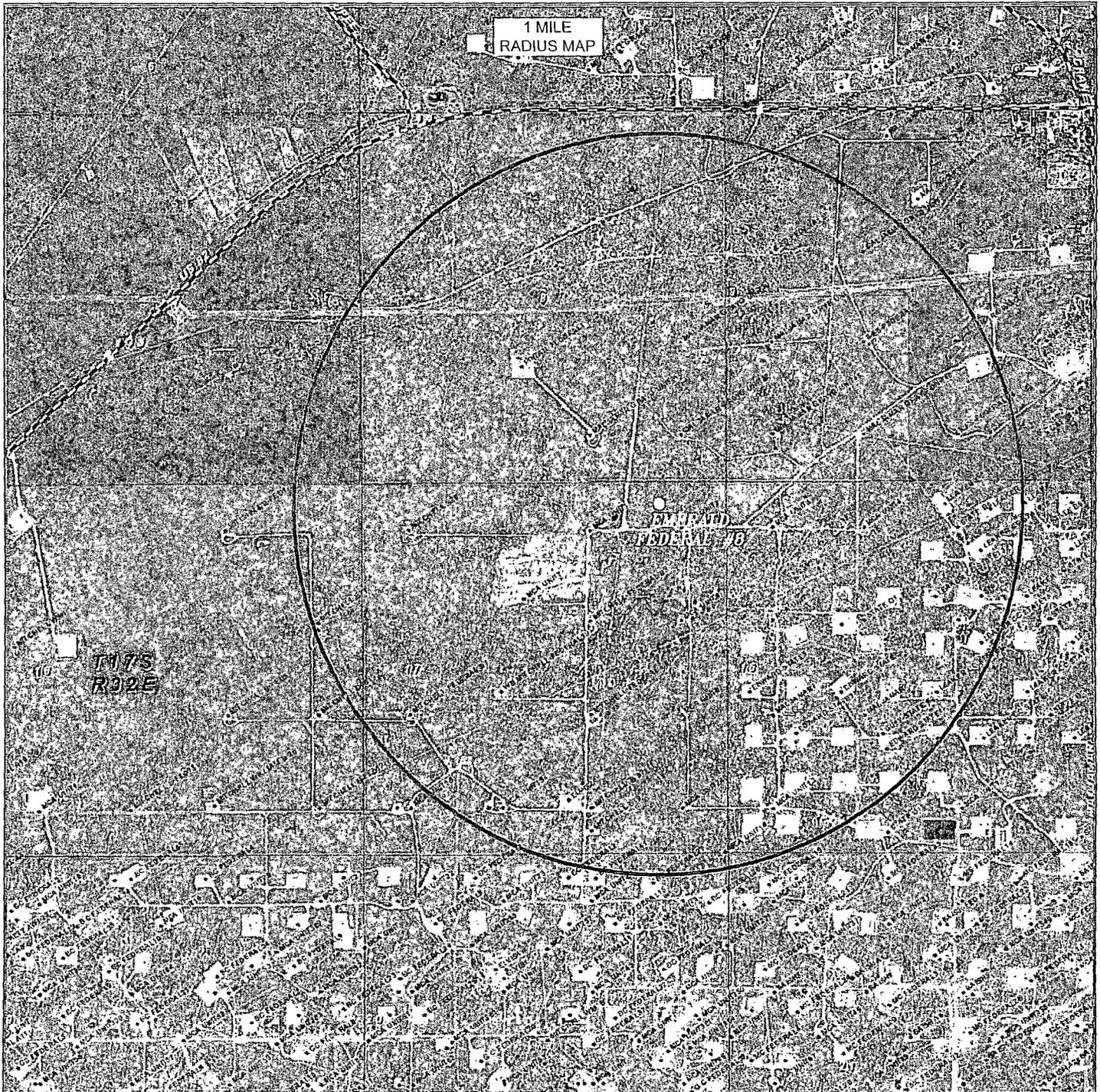
W.O. Number: JMS 28355

Scale: 1" = 2000'

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

ConocoPhillips

Sheet 7 of 10 Sheets



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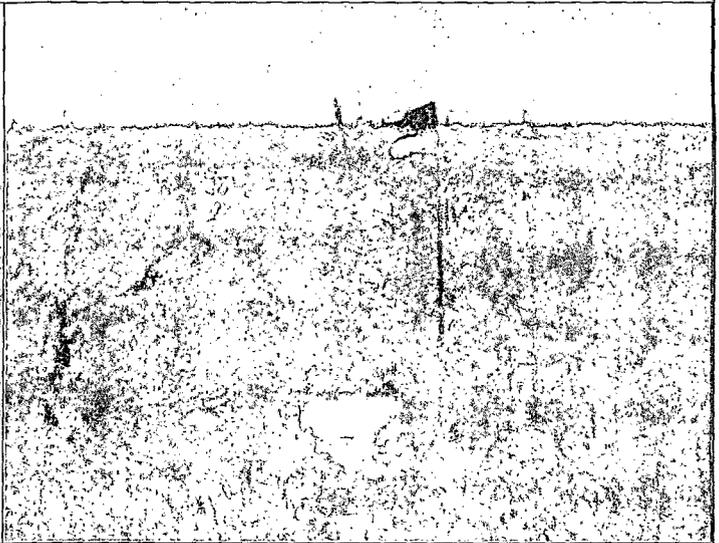
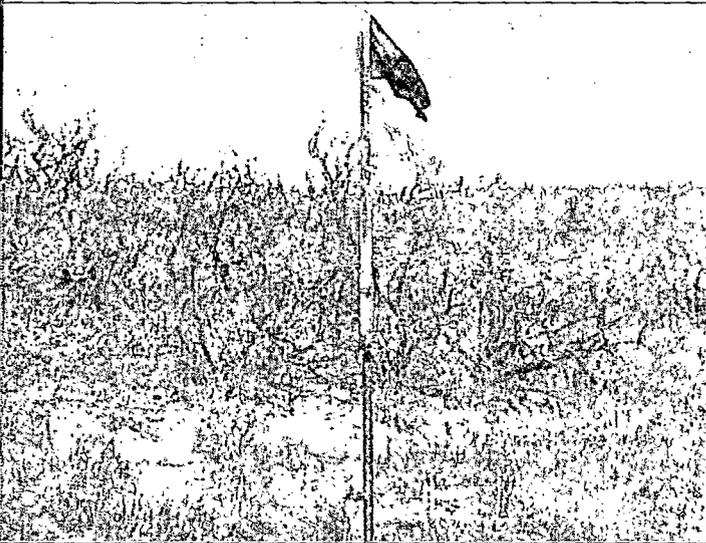
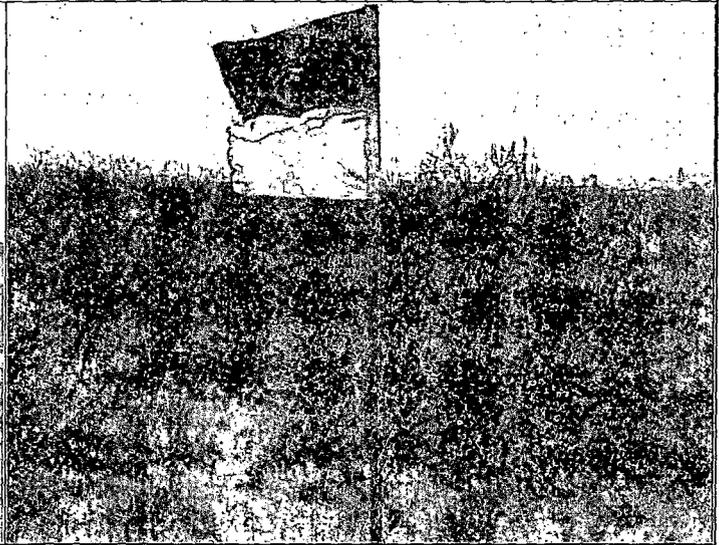
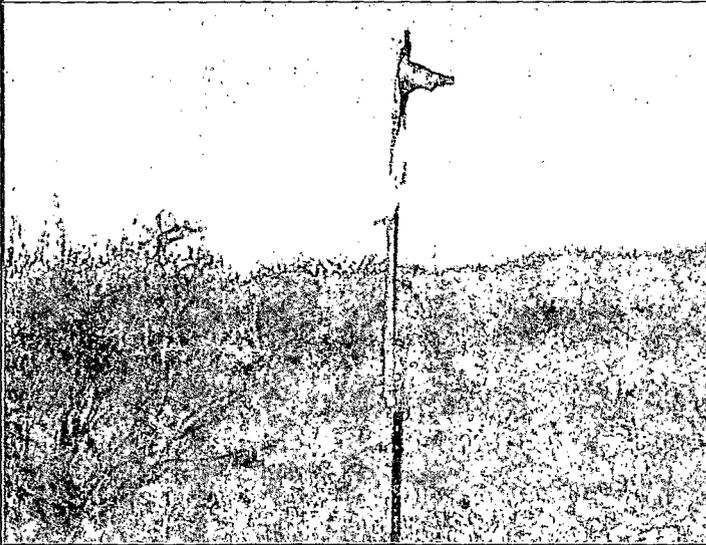
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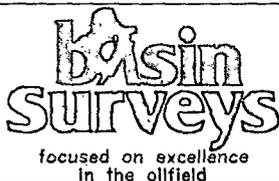


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RECLAMATION
PHOTOS



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Scale: NONE

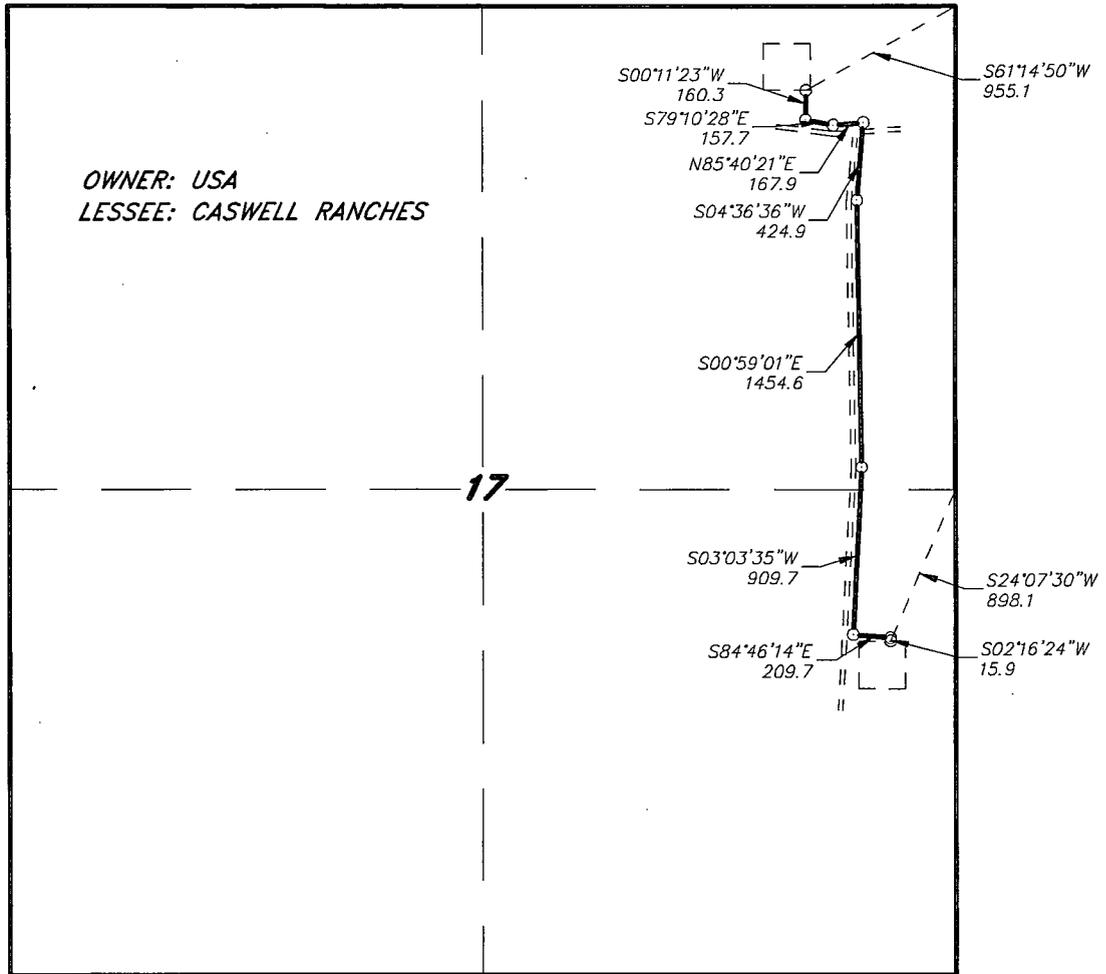
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Sheet 10 of 10 Sheets

SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

OWNER: USA
LESSEE: CASWELL RANCHES



LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 17 = 3500.7 FEET = 212.16 RODS = 0.66 MILES = 2.41 ACRES

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



GARY L. JONES, P.L.S. No. 7977
LEA COUNTY, N.M. No. 5074



ConocoPhillips

REF: PROPOSED FLOWLINE FOR THE EMERALD FEDERAL 8

A PIPELINE CROSSING USA LAND IN
SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

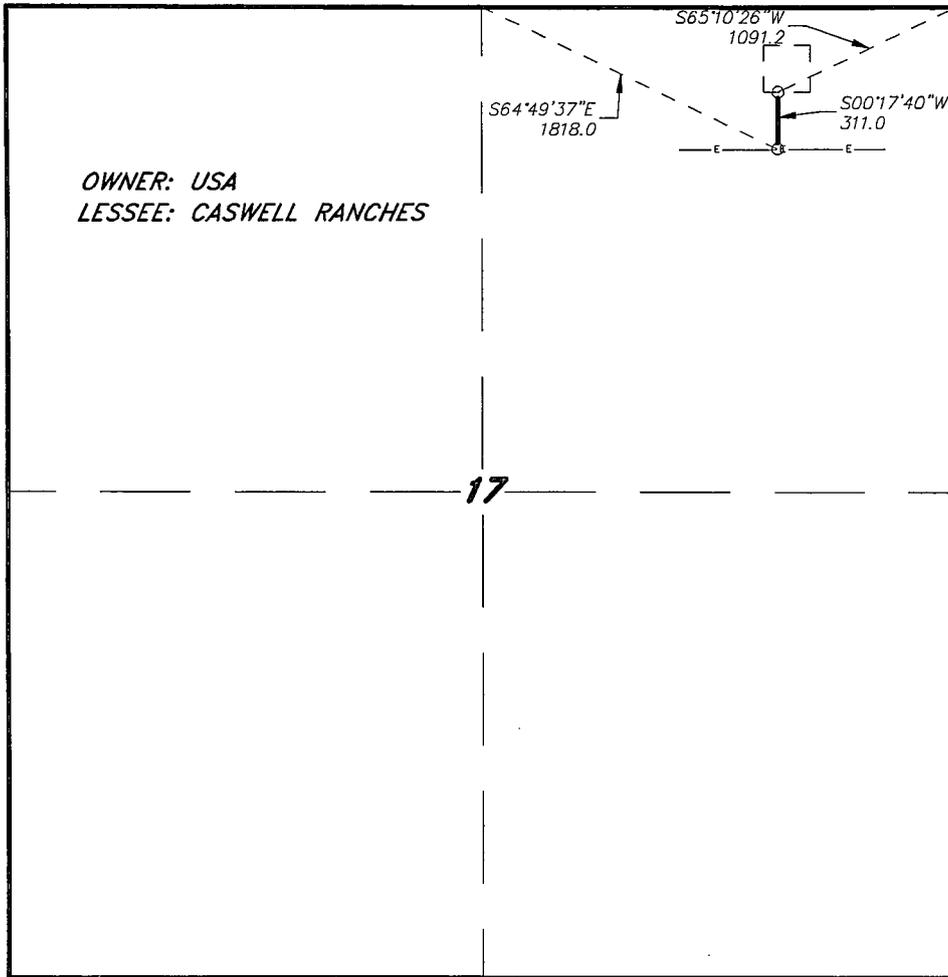
BASIN SURVEYS P.O. BOX 1786—HOBBS, NEW MEXICO

W.O. Number: 28355 Drawn By: J. M. SMALL

Date: 04-25-2013 Disk: JMS 28355

Survey Date: 04-18-2013 Sheet 1 of 1 Sheets

SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



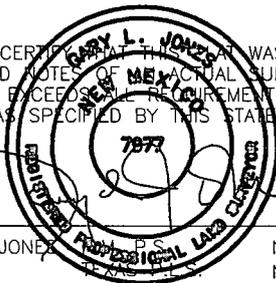
OWNER: USA
LESSEE: CASWELL RANCHES

LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 17 = 311.0 FEET = 18.85 RODS = 0.06 MILES = 0.21 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



ConocoPhillips

REF: PROPOSED ELECTRIC LINE FOR THE EMERALD FEDERAL 33

AN ELECTRIC LINE CROSSING USA LAND IN
SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

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

W.O. Number: 28355

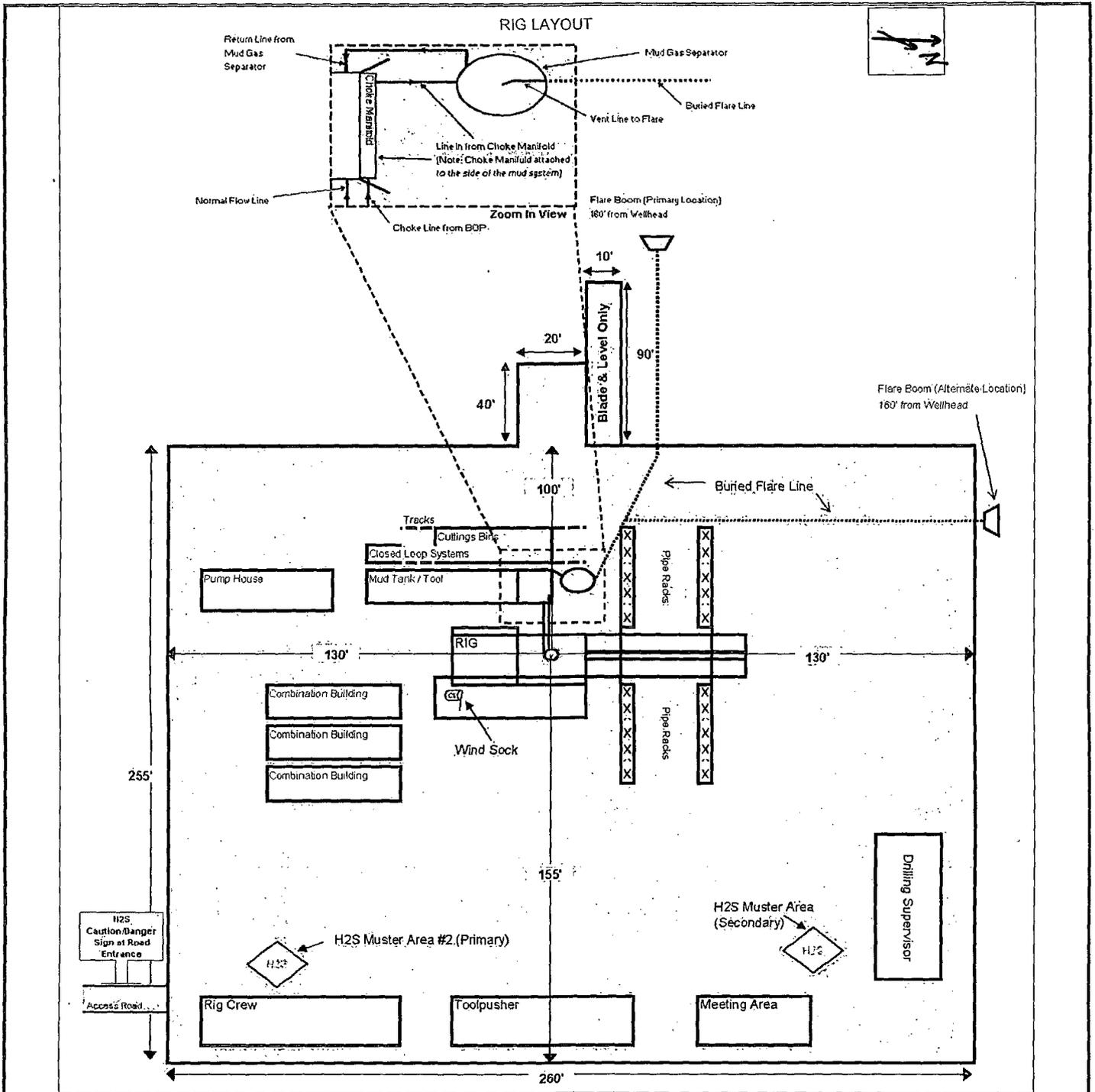
Drawn By: J. M. SMALL

Date: 04-25-2013

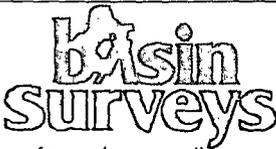
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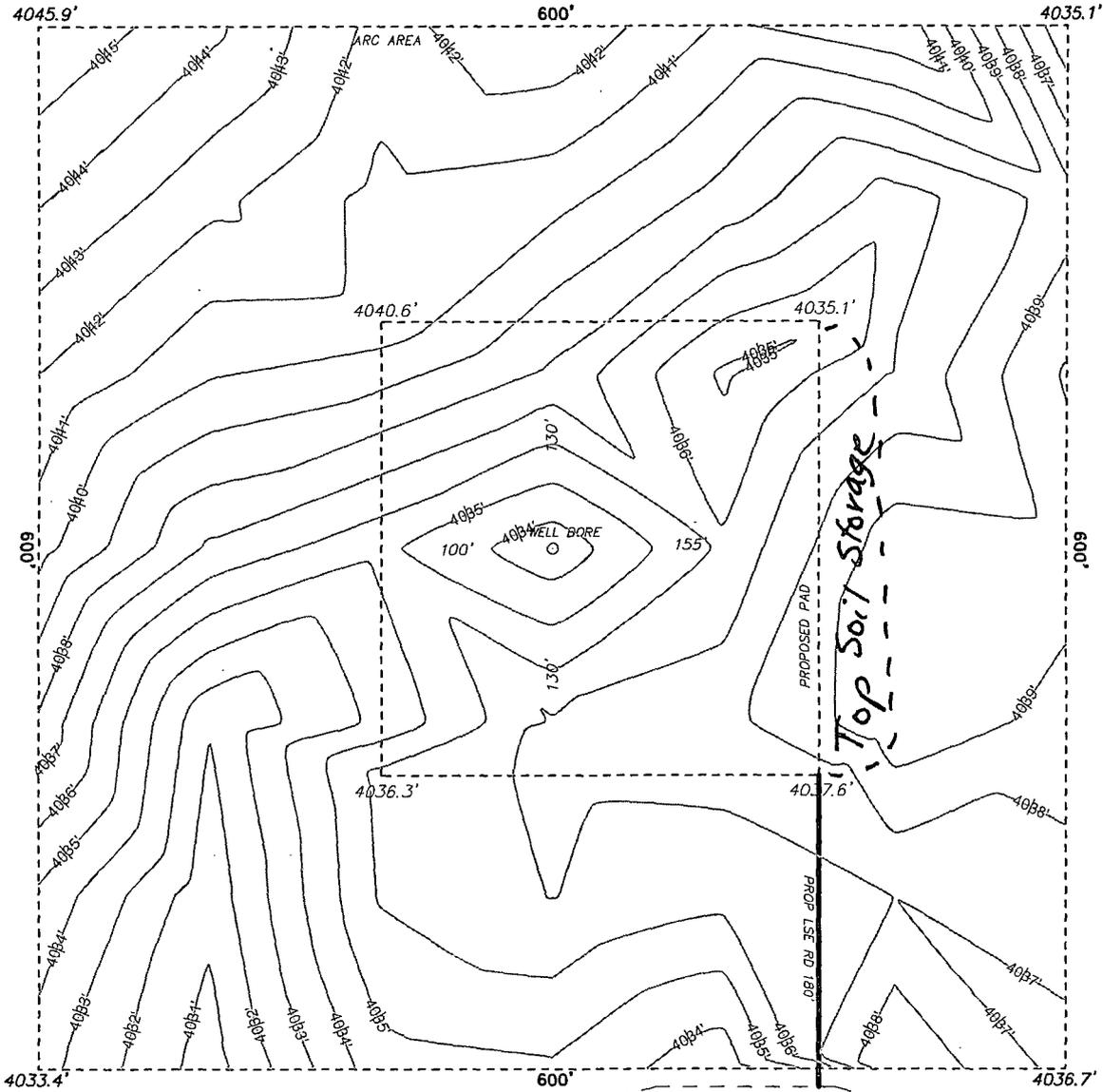
Sheet 1 of 1 Sheets



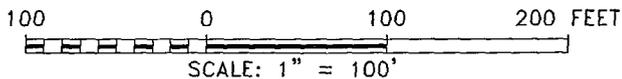
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 focused on excellence in the oilfield	P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basin-surveys.com	W.O. Number: JMS 28355 Survey Date: 04-18-2013 Scale: 1" = NONE Date: 04-25-2013	 Sheet 8 of 10 Sheets
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SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
 LEA COUNTY, WELL PAD
 DETAIL NEW MEXICO.



EXISTING LEASE ROAD



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

W.O. Number: 28355 Drawn By: J. SMALL

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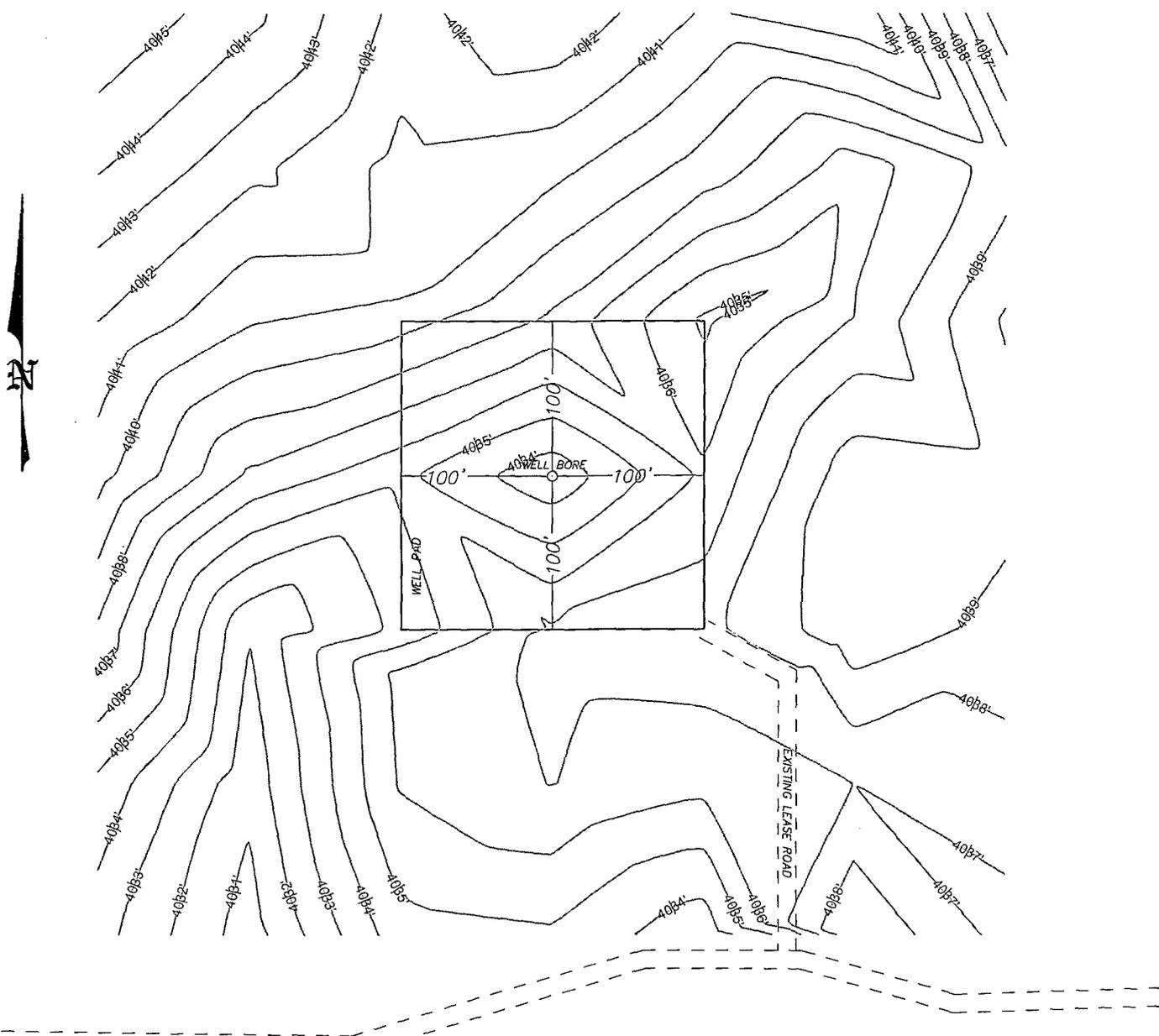
ConocoPhillips

REF: EMERALD FEDERAL #8 / WELL PAD DETAIL

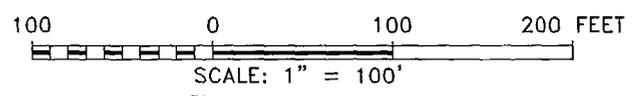
THE EMERALD FEDERAL #8 LOCATED 330'
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 N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 04-18-2013 Sheet 3 of 10 Sheets

SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M.,
LEA COUNTY, INTERIM RECLAMATION, NEW MEXICO.



= sides to be reclaimed



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

W.O. Number: 28355 Drawn By: J. SMALL
Date: 04-25-2013 Disk: JMS 28355

ConocoPhillips	
REF: EMERALD FEDERAL #8 / INTERIM RECLAMATION	
THE EMERALD FEDERAL #8 LOCATED 330' FROM THE NORTH LINE AND 990' FROM THE EAST LINE OF SECTION 17, TOWNSHIP 17 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO.	
Survey Date: 04-18-2013	Sheet 4 of 10 Sheets