

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: January 31, 2018

**SUNDRY NOTICES AND REPORTS ON WELLS**  
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*

5. Lease Serial No.  
NMLC063667

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.  
BIG EDDY UNIT 14 FEDERAL SWD 1

9. API Well No.  
30-015-43649-00-X1

10. Field and Pool or Exploratory Area  
WILLIAMS SINK

11. County or Parish, State  
EDDY COUNTY, NM

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well  
 Oil Well  Gas Well  Other

2. Name of Operator  
BOPCO LP  
Contact: STEPHANIE RABADUE  
E-Mail: stephanie\_rabadue@xtoenergy.com

3a. Address  
6401 HOLIDAY HILL RD BLDG 5 SUITE 200  
MIDLAND, TX 79707

3b. Phone No. (include area code)  
Ph: 432-620-6714

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
Sec 14 T20S R31E SWSW 1110FSL 250FWL

*GC 1/16/19 Accepted for record - NMOCD*

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other Surface Disturbance
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

BOPCO, L.P. respectfully requests to construct, operate, and maintain: 2 ? 20kbd Central Tank Batteries (600?x600?), access roads, and associated flowlines for the purpose of storage and sale of production from future Big Eddy Unit DI 30 wells in addition to disposal of produced water.

**RECEIVED**

Details and plats of the request are uploaded as an attachment.

BEU DI30 CTB East: 1732?FWL & 1501?FSL, NESW, Sec 14-20S-31E [8.26 Acres]  
BEU DI30 CTB West: 1267?FEL & 1493?FSL, NESE, Sec 15-20S-31E [8.26 Acres]

JAN 10 2019

**ENTERED**  
12/21/18

DISTRICT II-ARTESIA O.C.D.

Flowlines: [Application Total: 29]  
BEU DI30 West CTB: One (1), 767.59? buried 6? poly flowline anticipated to carry produced water to the BEU DI3 West CTB is requested. Seven (7) additional 767.59? buried 6? steel flowlines with a

*Approved. WDD 12/19/2018 DOI-BLM-NM-PO20-2019-0114* *steps attached*

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #428591 verified by the BLM Well Information System  
For BOPCO LP, sent to the Carlsbad  
Committed to AFMSS for processing by PRISCILLA PEREZ on 07/25/2018 (18PP2321SE)

Name (Printed/Typed) STEPHANIE RABADUE Title REGULATORY COORDINATOR

Signature (Electronic Submission) Date 07/25/2018

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved By *[Signature]* Title *Supervisor Realty* Date *12/19/18*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office *CFO*

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

## **Additional data for EC transaction #428591 that would not fit on the form**

### **32. Additional remarks, continued**

maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 West CTB for future production (oil, gas, water lines). Seven (7) additional 767.59? buried 6? steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 West CTB for future gas lift. Total Flowlines to the West Battery with this applications: 15 buried.

BEU DI30 East CTB: Seven (7) 731.73? buried 6? steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 East CTB for future production (oil, gas, water lines). Seven (7) additional 731.73? buried 6? steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 East CTB for future gas lift. Total Flowlines to the East Battery with this applications: 14 buried.

#### **Access Roads:**

There is a total of 935.75? or .18 miles of proposed and staked new access roads to two (2) requested Central Tank Batteries for BEU DI30. The access road plat attached show the location of proposed roads that will need to be constructed to access the well pads. Proposed roads extend off of the existing approved road for BEU DI30.

**Pipeline Request**

BOPCO, L.P.

**Big Eddy Unit DI 30 Production Package;**

**BEU DI30 West CTB, BEU DI30 East CTB, Access Roads, Buried F/L's**

Sections 14 & 15 20S-31E (Bureau of Land Management)

Eddy County, New Mexico

**1. PURPOSE AND NEED:**

- a. BOPCO, L.P. respectfully requests to construct, operate, and maintain: 2 – 20kbd Central Tank Batteries (600'x600'), access roads, and associated flowlines for the purpose of storage and sale of production from future Big Eddy Unit DI 30 wells in addition to disposal of produced water.

**2. CONSTRUCTION & MAINTENANCE:**

- a. BOPCO, L.P. anticipates a project start date of: September 30, 2018 with construction taking 3 months. If additional time is deemed necessary to complete construction or reclamation, a sundry will be filed with the AO pursuant to anticipated activities.
- b. Two (2) routes are proposed for buried flowlines. Flowline specifics can be found under 'Location of Proposed Facilities.'
- c. Subsurface lines will be buried a minimum of 36" beneath the surface.
- d. Buried lines will be identified by signs at the point of origin and completion of the line in addition to all road crossings. Signs will state, at minimum: the holder's name and product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the lines.
- e. The line route will not be used as a road for purposes other than routine maintenance as determined necessary by the AO in consultation with BOPCO, L.P. before maintenance begins. BOPCO, L.P. will take all necessary precautions to ensure that the flowline route is not used as a roadway. Temporary deterrence structures will be used as needed and approved by the AO.
- f. All permanent aboveground structures (on site six months or longer), such as risers, constructed or installed on location and not subject to safety requirements will be painted Carlsbad Canyon as approved by the AO recreation specialist, reducing the visual impacts on the built environment.
- g. Escape ramps will be constructed and maintained that are not fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. BOPCO, L.P. will construct and maintain escape ramps, ladders, or other methods of avian/terrestrial wildlife escape in the trenches according to the following criteria:
  - i. Any trench left open for 8 hours or less will not have escape ramps. However, prior to backfilling, BOPCO, L.P. shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
  - ii. Any trench left open for more than 8 hours will have earthen escape ramps built at no more than a 30 degree slope and spaced no more than 500' apart inside of the trench.

**3. LOCATION OF PROPOSED FACILITIES**

- a. **Central Tank Batteries.** Two (2) 600'x600' central tank batteries are requested to be built offsetting the drill island and will be used for the storage, measurement, and sale of mineral production from wells on Big Eddy Unit DI 30. The Western most facility will be

known as BEU DI30 West. The Eastern most facility will be known as BEU DI30 East. Location information for either battery is noted below. Associated plats for the project request are attached. A 3160-5 sundry notification will be submitted after construction with a site-security diagram and layout of the facility with associated equipment.

- i. BEU DI30 West CTB: 1267'FEL & 1493'FSL, NESE, Sec 15-20S-31E [8.26 Acres]
- ii. BEU DI30 East CTB: 1732'FWL & 1501'FSL, NESW, Sec 14-20S-31E [8.26 Acres]

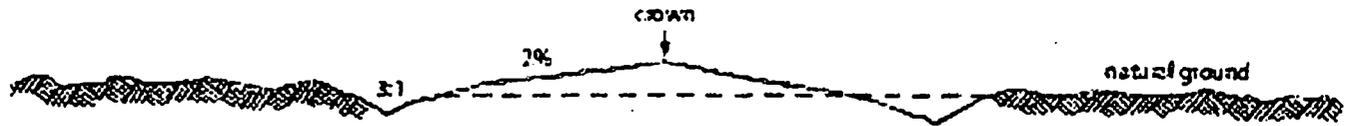
**b. Flowlines.**

- i. **BEU DI30 West CTB:** One (1), 767.59' buried 6" poly flowline anticipated to carry produced water to the BEU DI3 West CTB is requested. Seven (7) additional 767.59' buried 6" steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 West CTB for future production (oil, gas, water lines). Seven (7) additional 767.59' buried 6" steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 West CTB for future gas lift. Total Flowlines to the West Battery with this applications: 15 buried.
  - ii. **BEU DI30 East CTB:** Seven (7) 731.73' buried 6" steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 East CTB for future production (oil, gas, water lines). Seven (7) additional 731.73' buried 6" steel flowlines with a maximum safety pressure rating of 1440psi (operating pressure: 750psi) are requested for the BEU DI30 East CTB for future gas lift. Total Flowlines to the East Battery with this applications: 14 buried.
- c. **Flare.** Two (2) flares are requested for this project. One flare will be located on each CTB location (BEU DI30 West & BEU DI30 East). The flare will be sized and rated based on anticipated reserves and recovery of gas throughout the development area with 150' of distance between all facility equipment, road and well pad locations for safety purposes.
  - d. **Containment Berms.** Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½ times the capacity of the largest tank and away from cut or fill areas.

**4. PROPOSED ROADS:**

5. **New Roads.** There is a total of 935.75' or .18 miles of proposed and staked new access roads to two (2) requested Central Tank Batteries for BEU DI30. The access road plats attached show the location of proposed roads that will need to be constructed to access the well pads. Proposed roads extend off of the existing approved road for BEU DI30.
6. **Anticipated Traffic.** Upon completion of the Central Tank Battery, one lease operator truck will continue to travel to each well site to monitor the working order of the wells and to check well equipment for proper operation. Two oil trucks will continue to travel to the Central Tank Battery for oil hauling until an oil pipeline is identified. Additional traffic will include one maintenance truck periodically throughout the year for pad upkeep and weed removal.
7. **Routing.** All equipment and vehicles will be confined to the travel routes laid out in the vicinity map provided by FSC, Inc. unless otherwise approved by the BLM and applied for by BOPCO, L.P.
8. **Road Dimensions.** The maximum width of the driving surface of new roads will be 14 feet. The roads will be crowned and ditched with a 2% slope from the tip of the crown to the edge of the

driving surface. The ditches will be 1 foot deep with 3:1 slopes. The driving surface will be made of 6" rolled and compacted caliche.

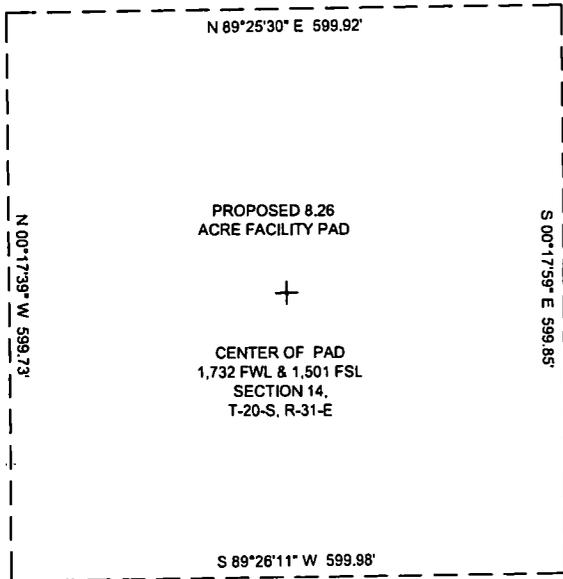


## Level Ground Section

9. **Surface Material.** Surface material will be native caliche. The average grade of all roads will be approximately 3%.
10. **Fence Cuts:** No.
11. **Fences:** No.
12. **Cattle Guards:** No.
13. **Turnouts:** No.
14. **Culverts:** No.
15. **Cuts and Fills:** Not significant.
16. **Topsoil.** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.
17. **Maintenance.** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.
18. **Drainage.** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.
19. **ADDITIONAL GOVERNMENT AGENCIES INVOLVED:**
  - a. None.
20. **PLANS FOR SURFACE RECLAMATION:**
  - a. Surface Reclamation plans will be assessed with the BLM AO when use of the facilities and roads is completed.
21. **OTHER INFORMATION:**
  - a. There is no permanent or live water in the immediate area.
  - b. There are no dwellings within 2 miles of this location.
  - c. Archaeology: payment has been made in accordance with the MOA.
  - d. Onsite Conducted with Jeff Robertson, BLM NRS: 2.27.2018
22. **BOND COVERAGE:**
  - a. BOPCO, L.P. Bond Number: COB00050



0 100' 200'  
1" = 200 FEET



**BIG EDDY UNIT DI 30 PROPOSED FACILITY PAD DESCRIPTION:**

Description of a proposed facility pad totaling 8.26 acres and being situated in Section 14, Township 20 South, Range 31 East, New Mexico Prime Meridian, Eddy County, New Mexico and being more particularly described as follows:

**BEGINNING** at the southeast corner of the proposed facility pad which lies S 27°24'30" 1,345.53 feet, from a found 3/4" iron pipe w/ brass cap in rock mound being the south quarter corner of said Section 14.

**THENCE** over and across said Section 14, the following courses and distances:

S 89°26'11" W, a distance of 599.98 feet to a point;

N 00°17'39" W, a distance of 599.73 feet to a point;

N 89°25'30" E, a distance of 599.92 feet to a point;

S 00°17'59" E, a distance of 599.85 feet to the POINT OF BEGINNING containing a total of **8.26 acres**, more or less.

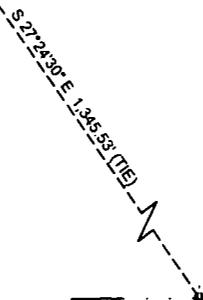
Said pad is divided in each quarter-quarter section as follows

NW/4 SW/4 Section 14 = 6.57 ACRES

SE/4 SW/4 Section 14 = 1.69 ACRES

**SECTION 14**  
TOWNSHIP 20 SOUTH,  
RANGE 31 EAST  
NEW MEXICO PRIME  
MERIDIAN

**P.O.B.**  
NAD 83 (NME)  
Y = 571,219.58  
X = 692,740.77



SECTION 23  
T-20-S R-31-E

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 23786



LEGEND

- SECTION LINE
- - - PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND BRASS CAP MONUMENT

*XTO PERMIAN OPERATING, LLC.*

*PROPOSED FACILITY PAD  
BIG EDDY UNIT DI 30*

SURVEY FOR A PROPOSED FACILITY PAD  
SITUATED IN THE SW/4 OF SECTION 14,  
TOWNSHIP 20 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	07-24-2018	PROJECT NO:	2017111908
DRAWN BY:	AJ	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1



550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

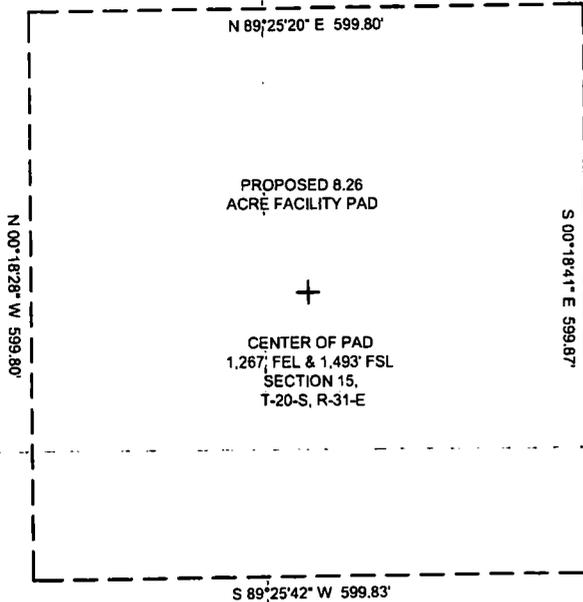
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NW/4 SE/4

0 100' 200'  
1" = 200 FEET

SE/4 SE/4



PROPOSED 8.26  
ACRE FACILITY PAD

+

CENTER OF PAD  
1,267' FEL & 1,493' FSL  
SECTION 15,  
T-20-S, R-31-E

P.O.B.  
NAD 83 (NME)  
Y = 571,189.51  
X = 689,741.64

**SECTION 15**  
TOWNSHIP 20 SOUTH,  
RANGE 31 EAST  
NEW MEXICO PRIME  
MERIDIAN

S 39°15'52\"/>

1 1/2\"/>

15  
14  
22 23

GENERAL NOTES

1. BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
2. LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 23786



LEGEND

- SECTION LINE
- - - PROPOSED FACILITY PAD
- P.O.B. POINT OF BEGINNING
- FOUND BRASS CAP MONUMENT

*XTO PERMIAN OPERATING, LLC.*

*PROPOSED FACILITY PAD  
BIG EDDY UNIT DI 30*

SURVEY FOR A PROPOSED FACILITY PAD  
SITUATED IN THE SE/4 OF SECTION 15,  
TOWNSHIP 20 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO

DATE:	07-25-2018	PROJECT NO:	2017111908
DRAWN BY:	AI	SCALE:	1" = 200'
CHECKED BY:	DH	SHEET:	1 OF 1
FIELD CREW:	RE	REVISION:	1



550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

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0 250' 500'  
1" = 500 FEET

### SECTION 14

TOWNSHIP 20 SOUTH, RANGE 31 EAST  
NEW MEXICO PRIME MERIDIAN

#### BIG EDDY UNIT DI 30 PROPOSED ACCESS ROADS DESCRIPTION:

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 935.75 FEET, 56.71 RODS, OR 0.18 MILES IN LENGTH CROSSING SECTIONS 14 AND 15, TOWNSHIP 20 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE OF ROAD SURVEY, COMPRISING OF 0.62 OF AN ACRE AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NW/4 NE/4 SECTION 15 = 421.75 FEET = 25.56 RODS = 0.29 OF AN ACRE  
NE/4 SE/4 SECTION 15 = 336.79 FEET = 20.41 RODS = 0.23 OF AN ACRE  
NE/4 SW/4 SECTION 14 = 177.21 FEET = 10.74 RODS = 0.10 OF AN ACRE

P.O.B. "A"  
NAD 83 (NME)  
Y = 572,205.50  
X = 689,179.37

N 73°40'24" E 1,585.75' (TIE)

P.O.B. "B"  
NAD 83 (NME)  
Y = 572,125.69  
X = 689,689.97

N 68°50'00" W 2,148.49' (TIE)

P.O.B. "D"  
NAD 83 (NME)  
Y = 571,875.49  
X = 692,704.71

EXISTING ROAD =  
APPROXIMATELY 2,080'

P.O.B. "C"  
NAD 83 (NME)  
Y = 571,833.14  
X = 692,181.82'

P.O.T. "C"  
NAD 83 (NME)  
Y = 571,813.78'  
X = 692,182.79.

P.O.T. "D"  
NAD 83 (NME)  
Y = 571,818.93  
X = 692,692.59

P.O.T. "A"  
NAD 83 (NME)  
Y = 571,783.78  
X = 689,183.68

P.O.T. "B"  
NAD 83 (NME)  
Y = 571,788.91  
X = 689,693.30

PROPOSED  
FACILITY PAD

PROPOSED  
FACILITY PAD

#### LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	S 00°34'58" E	421.75'

#### LINE TABLE "B"

L2	S 00°33'58" E	336.79'
----	---------------	---------

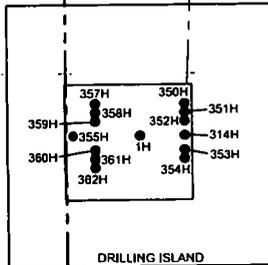
#### LINE TABLE "C"

L3	S 00°33'48" E	119.38'
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#### LINE TABLE "D"

L4	S 12°05'18" W	57.85'
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TOTAL LENGTH = 935.75 FEET  
OR 56.71 RODS



PROPOSED ROAD  
AS DESCRIBED ON  
SEPARATE PLAT

### SECTION 15

TOWNSHIP 20 SOUTH, RANGE 31 EAST  
NEW MEXICO PRIME MERIDIAN

#### GENERAL NOTES

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM 'NEW MEXICO EAST ZONE' NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

#### PLAT OF:

PROPOSED CENTERLINE OF  
ACCESS ROADS FOR:  
**XTO ENERGY, INC.**  
BIG EDDY UNIT DI 30

SITUATED IN SECTIONS 14 AND 15,  
TOWNSHIP 20 SOUTH, RANGE 31 EAST,  
NEW MEXICO PRIME MERIDIAN,  
EDDY COUNTY, NEW MEXICO

#### LEGEND

- SECTION LINE
- EXISTING ROAD
- PROPOSED PAD
- PROPOSED ROAD CENTERLINE
- P.O.B.
- P.O.T.
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 23786



550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

DATE: 3-12-2018  
DRAWN BY: AJ  
CHECKED BY: DH  
FIELD CREW: RE/RD/KM/CD  
PROJECT NO: 2017111908  
SCALE: 1" = 500'  
SHEET: 1 OF 1  
REVISION: NONE

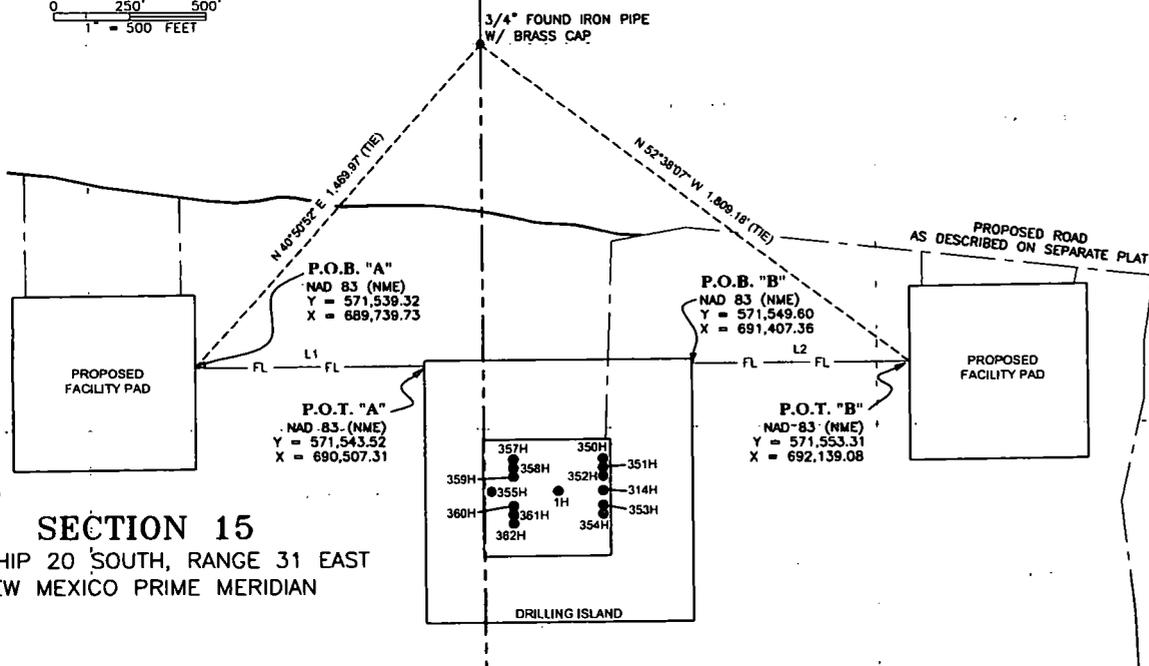


**SECTION 14**  
TOWNSHIP 20 SOUTH, RANGE 31 EAST  
NEW MEXICO PRIME MERIDIAN

**BIG EDDY UNIT DI 30 PROPOSED BURIED AND SURFACE FLOW LINES DESCRIPTION:**

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 1,499.32 FEET, 90.87 RODS, OR 0.28 MILES IN LENGTH CROSSING SECTIONS 14 AND 15, TOWNSHIP 20 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET RIGHT AND 15.0 FEET LEFT OF THE ABOVE PLATTED CENTERLINE FLOW LINE SURVEY, COMPRISING OF 1.04 ACRES AND DIVIDED IN EACH QUARTER QUARTER SECTION AS FOLLOWS:

NE/4 SE/4 SECTION 15 = 767.59 FEET = 46.52 RODS = 0.53 OF AN ACRE  
 NW/4 SW/4 SECTION 14 = 622.47 FEET = 37.73 RODS = 0.43 OF AN ACRE  
 NE/4 SW/4 SECTION 14 = 109.26 FEET = 6.62 RODS = 0.08 OF AN ACRE



LINE TABLE "A"

LINE	BEARING	DISTANCE
L1	N 89°41'10" E	767.59'

LINE TABLE "B"

L2	N 89°42'35" E	731.73'
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TOTAL LENGTH = 1,499.32 FEET  
OR 90.87 RODS



**SECTION 15**  
TOWNSHIP 20 SOUTH, RANGE 31 EAST  
NEW MEXICO PRIME MERIDIAN

**GENERAL NOTES**

- BEARINGS AND COORDINATES SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.
- LATITUDE AND LONGITUDE VALUES SHOWN HEREON ARE RELATIVE TO THE NORTH AMERICAN DATUM (NAD83).

**PLAT OF:**  
PROPOSED CENTERLINE OF  
BURIED AND SURFACE FLOW LINES FOR:

**XTO ENERGY, INC.**  
**BIG EDDY UNIT DI 30**  
SITUATED IN SECTIONS 14 AND 15,  
TOWNSHIP 20 SOUTH, RANGE 31 EAST,  
NEW MEXICO PRIME MERIDIAN,  
EDDY COUNTY, NEW MEXICO

**LEGEND**

- SECTION LINE
- EXISTING ROAD
- PROPOSED PAD
- PROPOSED ROAD
- PROPOSED BURIED AND SURFACE FLOW LINE CENTERLINE
- FL — FL — POINT OF BEGINNING
- FL — FL — POINT OF TERMINUS
- FOUND MONUMENT AS NOTED

I, MARK DILLON HARP, NEW MEXICO PROFESSIONAL SURVEYOR NO. 23786, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO, AND THAT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

MARK DILLON HARP  
REGISTERED PROFESSIONAL LAND SURVEYOR  
STATE OF NEW MEXICO NO. 23786

**FSC INC**  
SURVEYORS + ENGINEERS  
550 Bailey Ave., 205 - Fort Worth, TX 76107  
Ph: 817.349.9800 - Fax: 979.732.5271  
TBPE Firm 17957 | TBPLS Firm 10193887  
www.fscinc.net

DATE: 3-12-2018  
DRAWN BY: AH  
CHECKED BY: DH  
FIELD CREW: RE/RD/KN/CD  
PROJECT NO: 2017111908  
SCALE: 1" = 500'  
SHEET: 1 OF 1  
REVISION: NONE

**Well Name & Number:** Big Eddy Unit 14 Fed SWD 1 CTB Pad, Roads, and Flowlines

## STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statutes.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and

cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

5. Sites shall be maintained in an orderly, sanitary condition at all times. Waste materials, both liquid and solid, shall be disposed of promptly at an appropriate, authorized waste disposal facility in accordance with all applicable State and Federal laws. "Waste" means all discarded matter including, but not limited to, human waste, trash, garbage, refuse, petroleum products, brines, chemicals, oil drums, ashes, and equipment.

6. The operator will notify the Bureau of Land Management (BLM) authorized officer and nearest Fish and Wildlife Service (FWS) Law Enforcement office within 24 hours, if the operator discovers a dead or injured federally protected species (i.e., migratory bird species, bald or golden eagle, or species listed by the FWS as threatened or endangered) in or adjacent to a pit, trench, tank, exhaust stack, or fence. (If the operator is unable to contact the FWS Law Enforcement office, the operator must contact the nearest FWS Ecological Services office.)

7. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" designated by the Rocky Mountain Five-State Interagency Committee. The color selected for this project is **Shale Green**, Munsell Soil Color Chart Number 5Y 4/2.

8. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

9. A sales contract for removal of mineral material (caliche, sand, gravel, fill dirt) from an authorized pit, site, or on location must be obtained from the BLM prior to commencing construction. There are several options available for purchasing mineral material: contact the BLM office (575-234-5972).

10. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

11. Once the site is no longer in service or use, the site must undergo final abandonment. At final abandonment, the site and access roads must undergo "final" reclamation so that the character and

productivity of the land are restored. Earthwork for final reclamation must be completed within six (6) months of the abandonment of the site. All pads and facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact. After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

12. The holder shall stockpile an adequate amount of topsoil where blading occurs. The topsoil to be stripped is approximately   6   inches in depth. The topsoil will be segregated from other spoil piles. The topsoil will be used for final reclamation.

13. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- |  |  |
|--|--|
| <input type="checkbox"/> seed mixture 1                | <input type="checkbox"/> seed mixture 3          |
| <input type="checkbox"/> seed mixture 2                | <input type="checkbox"/> seed mixture 4          |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

14. In those areas where erosion control structures are required to stabilize soil conditions, the holder shall install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound management practices. Any earth work will require prior approval by the Authorized Officer.

15. Open-topped Tanks - The operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps

16. The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the

soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock enclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

17. Open-Vent Exhaust Stack Enclosures – The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (Recommended enclosure structures on open-vent exhaust stacks are in the shape of a cone.) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

18. Containment Structures - Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

19. Special Stipulations:

#### BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et seq.*) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed 20 feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately 6 inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

- |  |  |
|--|--|
| <input type="checkbox"/> seed mixture 1                | <input type="checkbox"/> seed mixture 3          |
| <input type="checkbox"/> seed mixture 2                | <input type="checkbox"/> seed mixture 4          |
| <input checked="" type="checkbox"/> seed mixture 2/LPC | <input type="checkbox"/> Aplomado Falcon Mixture |

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be

responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. Escape Ramps - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

19. Special Stipulations:

### **Wildlife Mitigation Measures**

#### **Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:**

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

#### **Timing Limitation Exceptions:**

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

### **Hydrology:**

The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

When crossing ephemeral drainages the pipeline will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Electric Lines: Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion.

### **Lesser Prairie-Chicken**

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except

between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from permanent engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

**Watershed/Water Quality:**

The entire perimeter of the well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad.

- The compacted berm shall be constructed at a minimum of 12 inches high with impermeable mineral material (e.g. caliche).
- No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad.
- The topsoil stockpile shall be located outside the bermed well pad.
- Topsoil, either from the well pad or surrounding area, shall not be used to construct the berm.
- No storm drains, tubing or openings shall be placed in the berm.
- If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.
- The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed.
- Any access road entering the well pad shall be constructed so that the integrity of the berm height surrounding the well pad is not compromised. (Any access road crossing the berm cannot be lower than the berm height.)

**Watershed & Surface/Groundwater Quality:**

- A leak detection plan *will be submitted to the BLM Carlsbad Field Office for approval* prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting values and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event. Regular monitoring is required to quickly identify leaks for their immediate and proper treatment.

**Tank Battery:**

- Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

## **Wildlife**

In May 2008, the Pecos District Special Status Species Resource Management Plan Amendment (RMPA) was approved and is being implemented. In addition to the standard practices that minimize impacts, as listed above, the following COA will apply:

- Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken, to minimize noise associated impacts which could disrupt breeding and nesting activities.
- Upon abandonment, a low profile abandoned well marker will be installed to prevent raptor perching.

### Proposed Salt Playas ACEC

- During nesting season (May 1 – August 31) the noise level would not exceed 49 dB at 30 feet within interior zone of the ACEC.

### Escape Ramps

The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.