



**Devon Energy Center
333 West Sheridan Avenue
Oklahoma City, Oklahoma 73102-5015**

Hydrogen Sulfide (H₂S) Contingency Plan

For

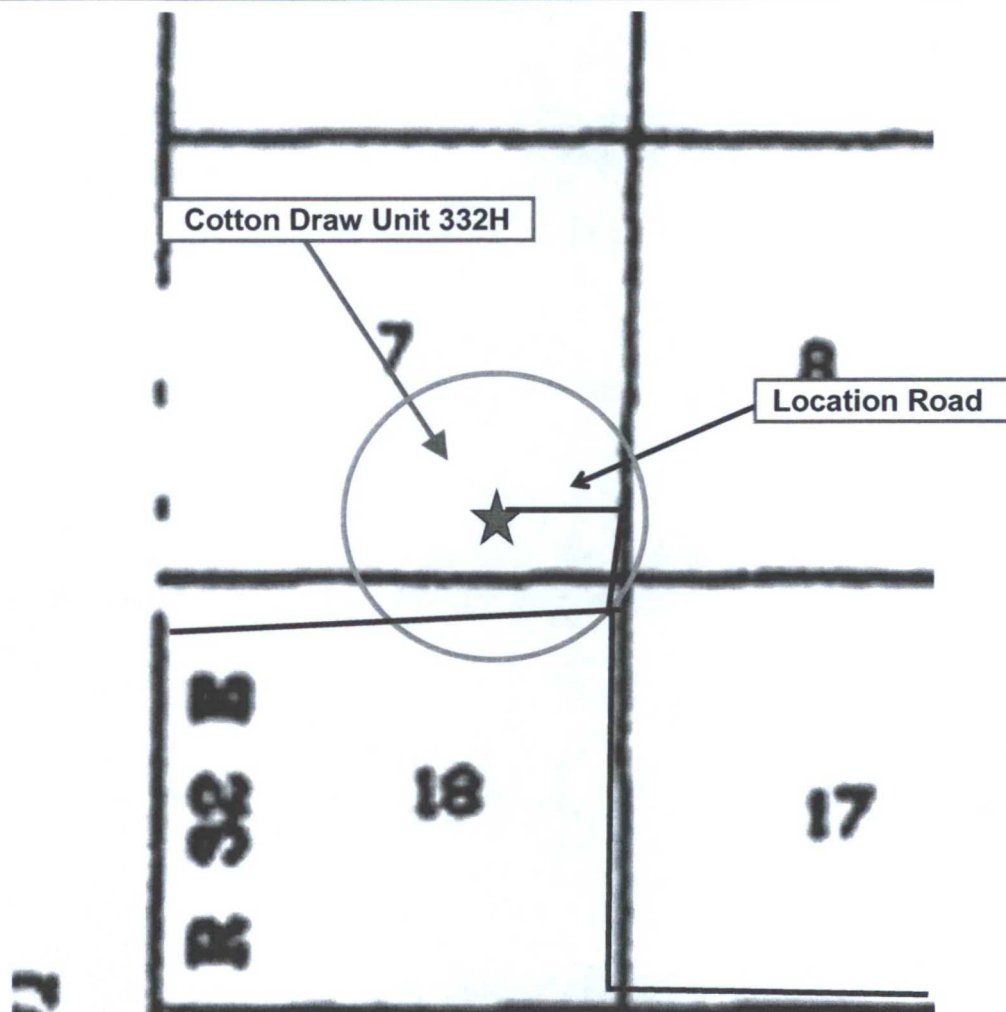
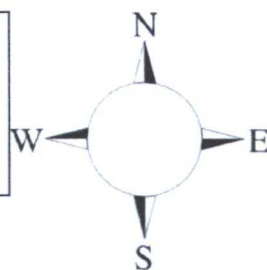
Cotton Draw Unit 332H

**Sec-7 T-25S R-32E
565' FSL & 1405' FEL
LAT = 32.1391285' N (NAD83)
LONG = 103.7103638' W**

Lea County NM

Cotton Draw Unit 332H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.



Assumed 100 ppm 3000' ()
100 ppm H₂S concentration shall trigger activation of this plan.

Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. There are no homes or buildings in or near the ROE.

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- **Isolate the area and prevent entry by other persons into the 100 ppm ROE.**
- **Evacuate any public places encompassed by the 100 ppm ROE.**
- **Be equipped with H₂S monitors and air packs in order to control the release.**
- **Use the "buddy system" to ensure no injuries occur during the response**
- **Take precautions to avoid personal injury during this operation.**
- **Contact operator and/or local officials to aid in operation. See list of phone numbers attached.**
- **Have received training in the**
 - **Detection of H₂S, and**
 - **Measures for protection against the gas,**
 - **Equipment used for protection and emergency response.**

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOC and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with

Hydrogen Sulfide Drilling Operation Plan

I. HYDROGEN SULFIDE (H₂S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H₂S)
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H₂S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H₂S Drilling Operations Plan and Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S.

1. Well Control Equipment

- A. Flare line
- B. Choke manifold – Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with one escape unit available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

3. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S levels reach 10 ppm and audible sirens which activate at 10 ppm. Sensor locations:

- Bell nipple
- Shale shaker
- Trip tank
- Suction pit
- Rig floor
- Cellar
- Choke manifold
- Living Quarters (usually the company man's trailer stairs.)

Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/ Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

4. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

6. Communication:

- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

7. Well testing:

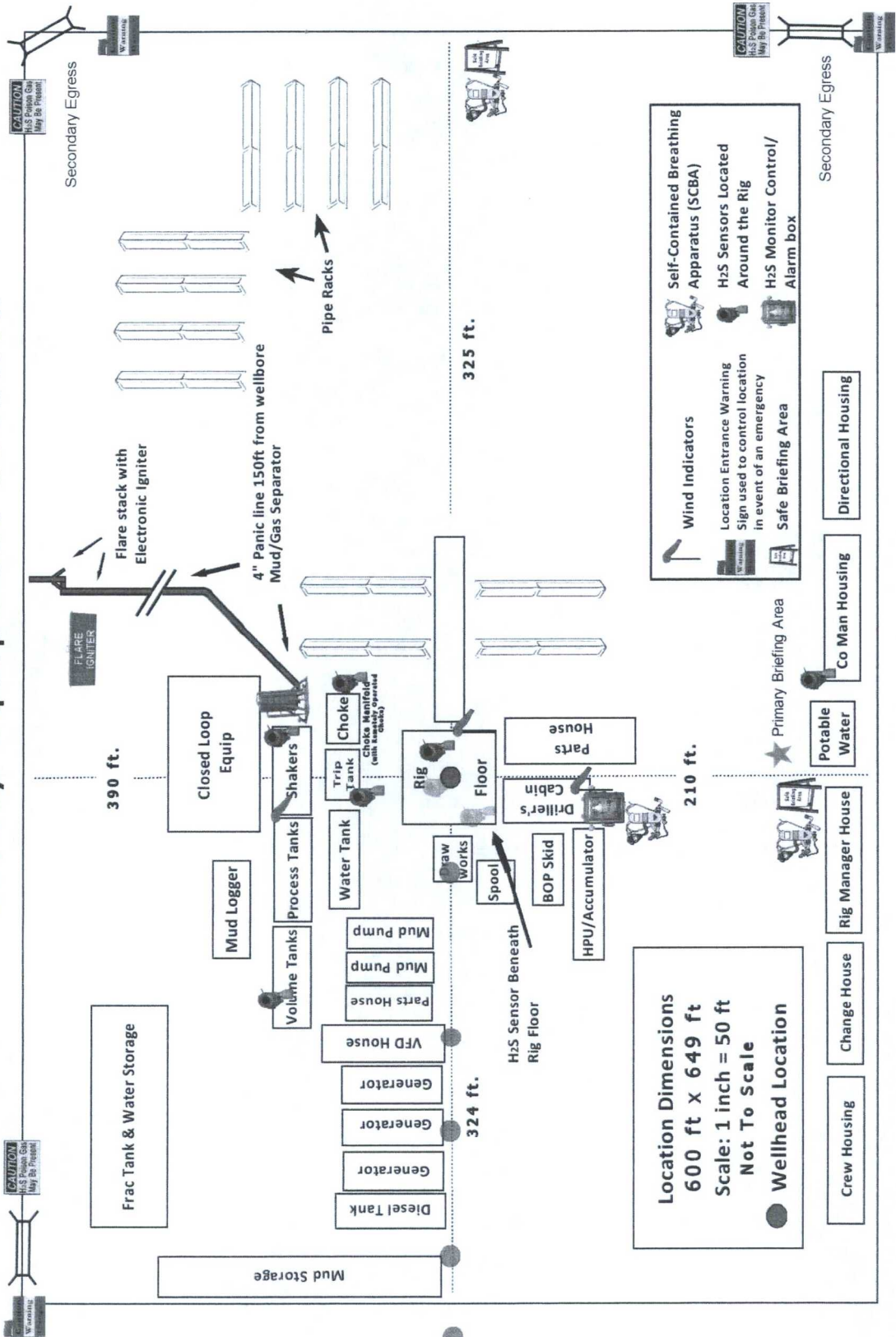
- A. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

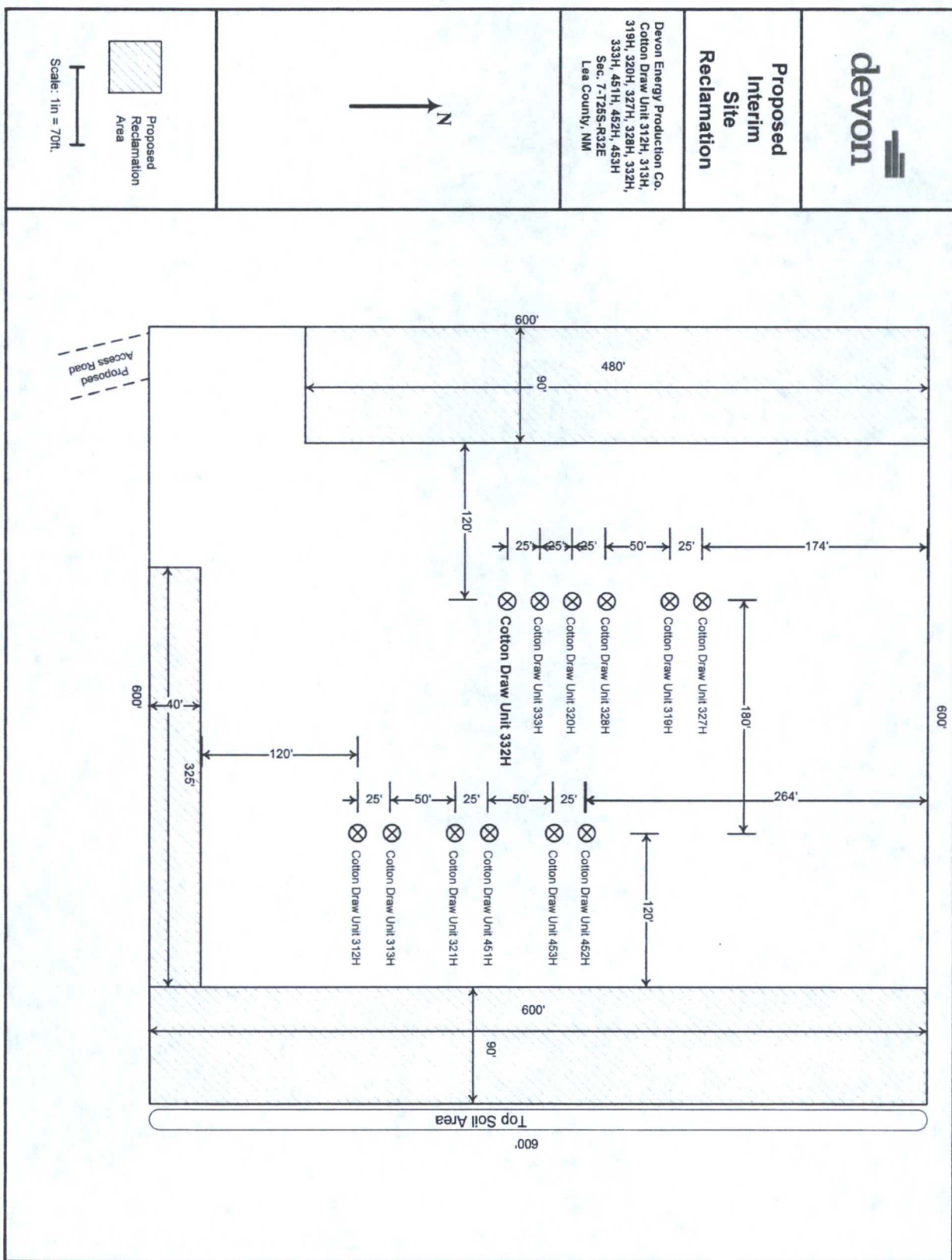
<u>Devon Energy Corp. Company Call List</u>		
Drilling Supervisor – Basin – Mark Kramer		405-823-4796
Drilling Supervisor – Slope – Norman Naill		405-760-7234
EHS Professional – Mark Hurst		575-513-9087
<u>Agency Call List</u>		
<u>Lea County (575)</u>	Hobbs	
	Lea County Communication Authority	393-3981
	State Police	392-5588
	City Police	397-9265
	Sheriff's Office	393-2515
	Ambulance	911
	Fire Department	397-9308
	LEPC (Local Emergency Planning Committee)	393-2870
	NMOCD	393-6161
	US Bureau of Land Management	393-3612
<u>Eddy County (575)</u>	Carlsbad	
	State Police	885-3137
	City Police	885-2111
	Sheriff's Office	887-7551
	Ambulance	911
	Fire Department	885-3125
	LEPC (Local Emergency Planning Committee)	887-3798
	US Bureau of Land Management	887-6544
	NM Emergency Response Commission (Santa Fe)	(505) 476-9600
	24 HR	(505) 827-9126
	National Emergency Response Center	(800) 424-8802
	National Pollution Control Center: Direct	(703) 872-6000
	For Oil Spills	(800) 280-7118
	Emergency Services	
	Wild Well Control	(281) 784-4700
<u>Give GPS position:</u>	Cudd Pressure Control	(915) 699-0139 (915) 563-3356
	Halliburton	(575) 746-2757
	B. J. Services	(575) 746-3569
	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429
	Flight For Life - Lubbock, TX	(806) 743-9911
	Aerocare - Lubbock, TX	(806) 747-8923
	Med Flight Air Amb - Albuquerque, NM	(575) 842-4433
	Lifeguard Air Med Svc. Albuquerque, NM	(800) 222-1222
	Poison Control (24/7)	(575) 272-3115
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	

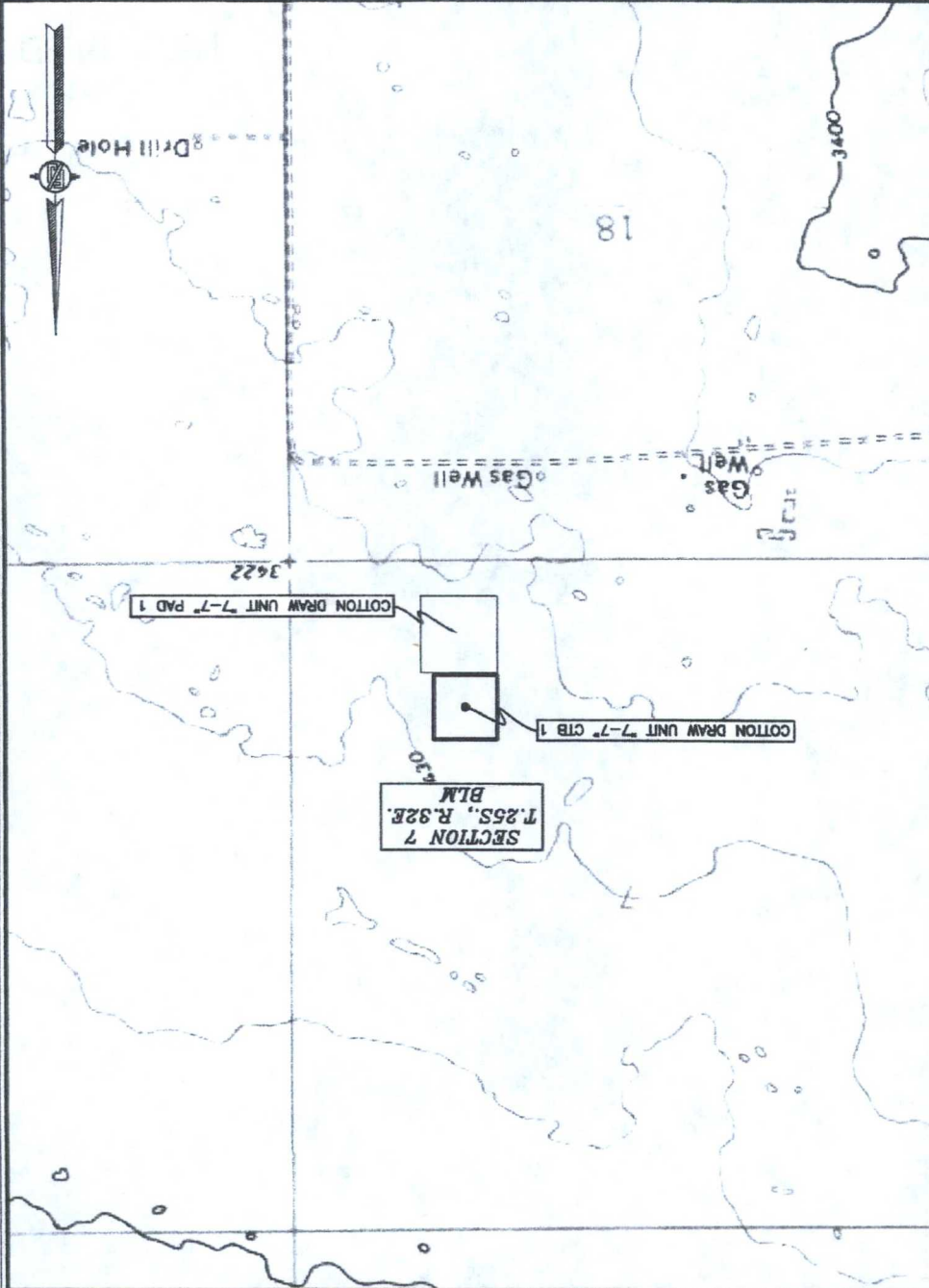
Prepared in conjunction with
Dave Small



Devon Energy - Well Pad Rig Location Layout Safety Equipment Location





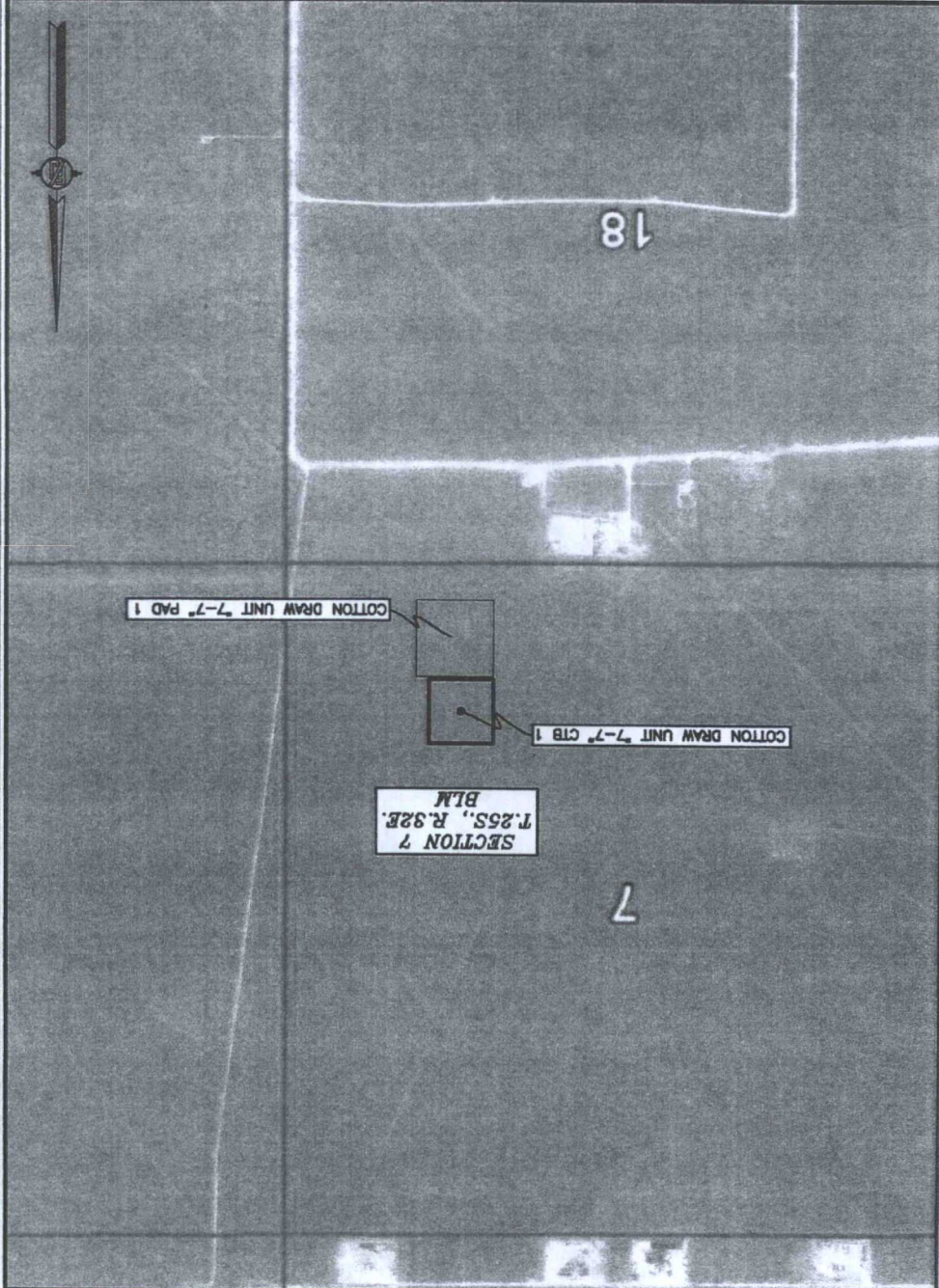


QUAD MAP

APRIL 7, 2016

DEVON ENERGY PRODUCTION COMPANY, L.P.
IN THE SW/4 SE/4 & SE/4 SE/4 & NW/4 SE/4 & NE/4 SE/4 OF
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

COTTON DRAW UNIT "7-7" CTB 1 (AA0000062044)



AERIAL PHOTO

APRIL 7, 2016

DEVON ENERGY PRODUCTION COMPANY, L.P.
IN THE SW/4 SE/4 & SE/4 SE/4 & NW/4 SE/4 & NE/4 SE/4 OF
SECTION 7, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
COTTON DRAW UNIT "7-7" CTB 1 (AA000062044)

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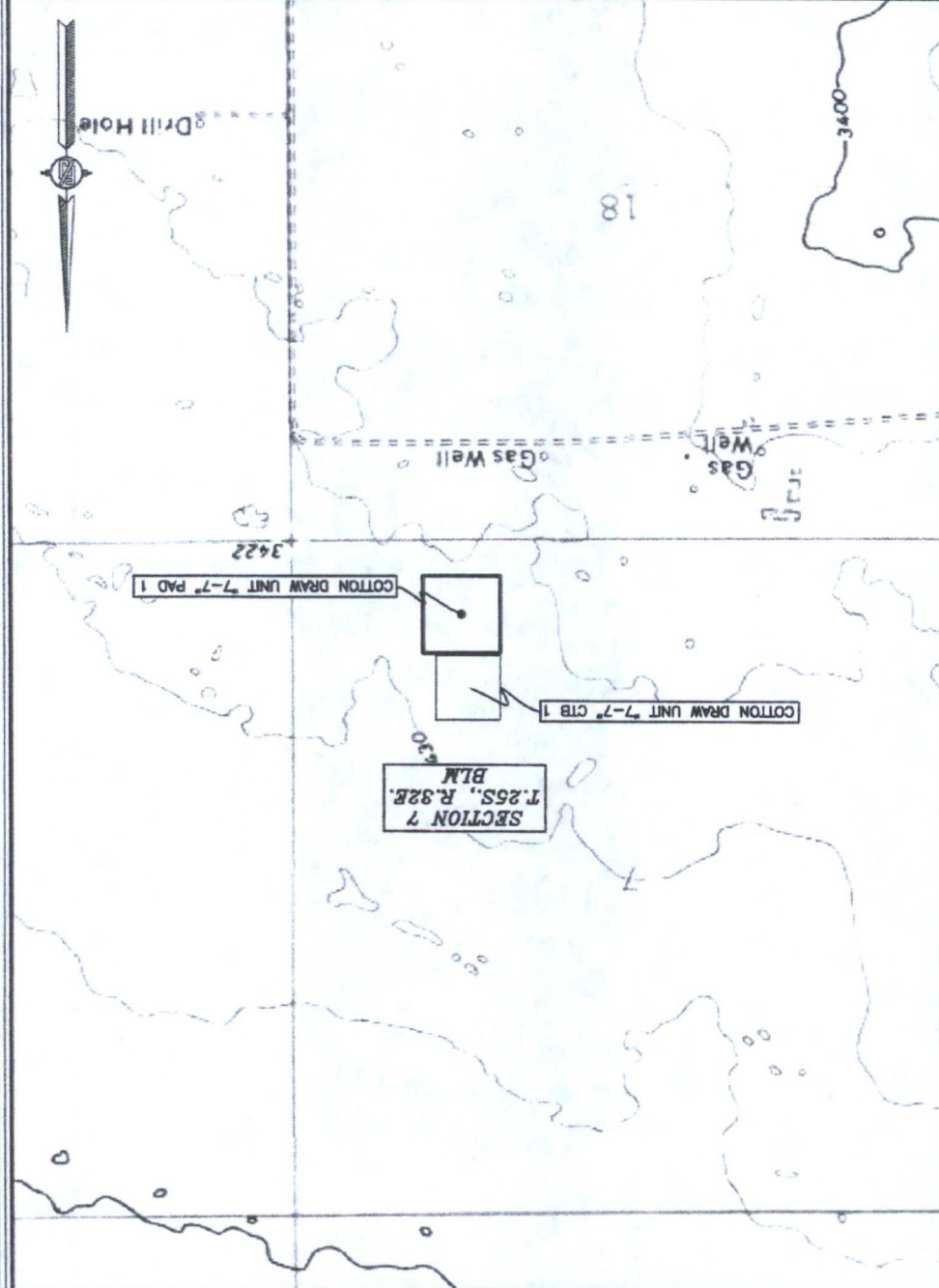
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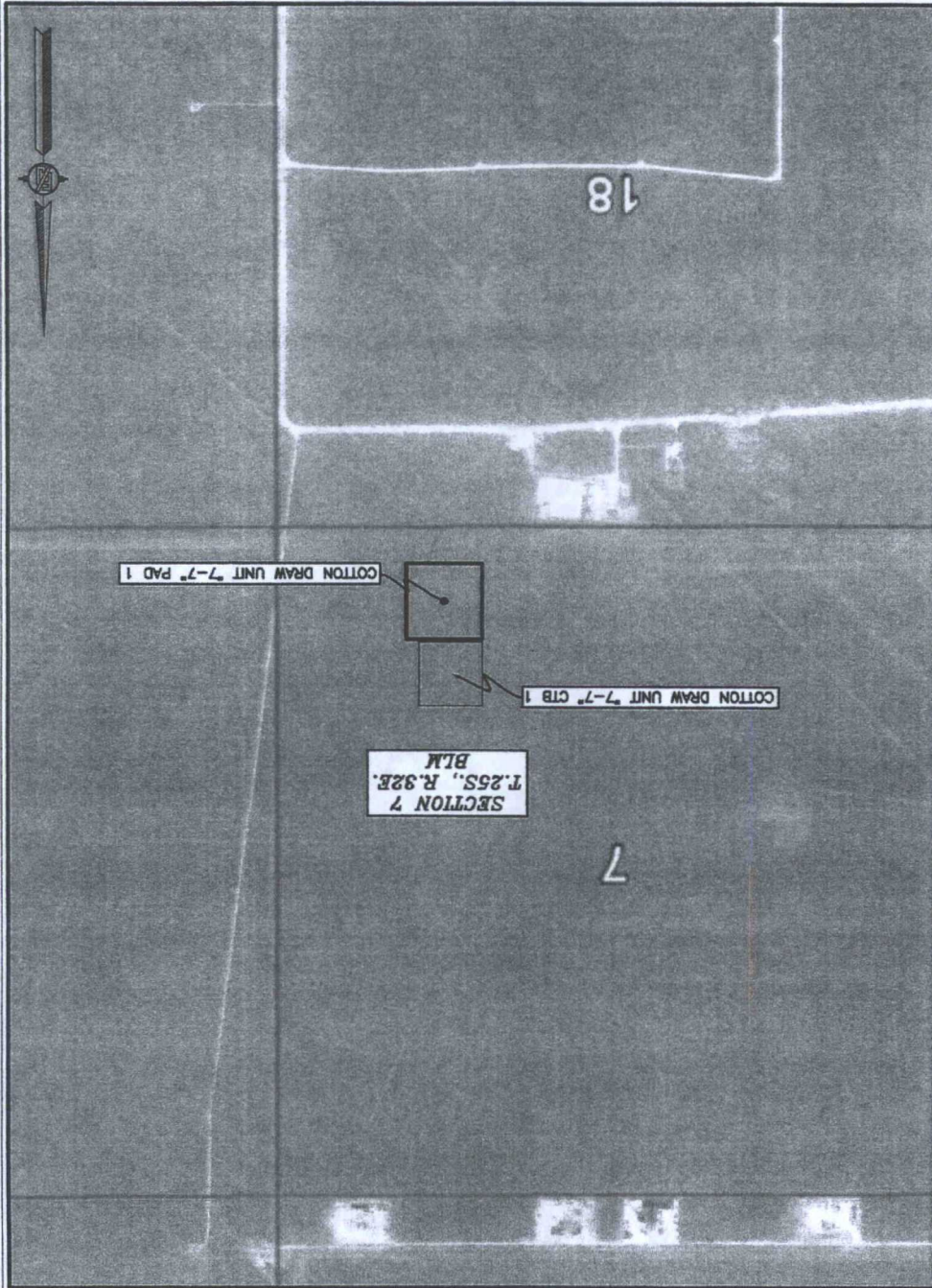


QUAD MAP

APRIL 7, 2016

DEVON ENERGY PRODUCTION COMPANY, L.P.
IN THE SE/4 SE/4 & SW/4 SE/4 OF
SECTION 7, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO

COTTON DRAW UNIT "7-7" PAD 1 (AA000060044)



AERIAL PHOTO

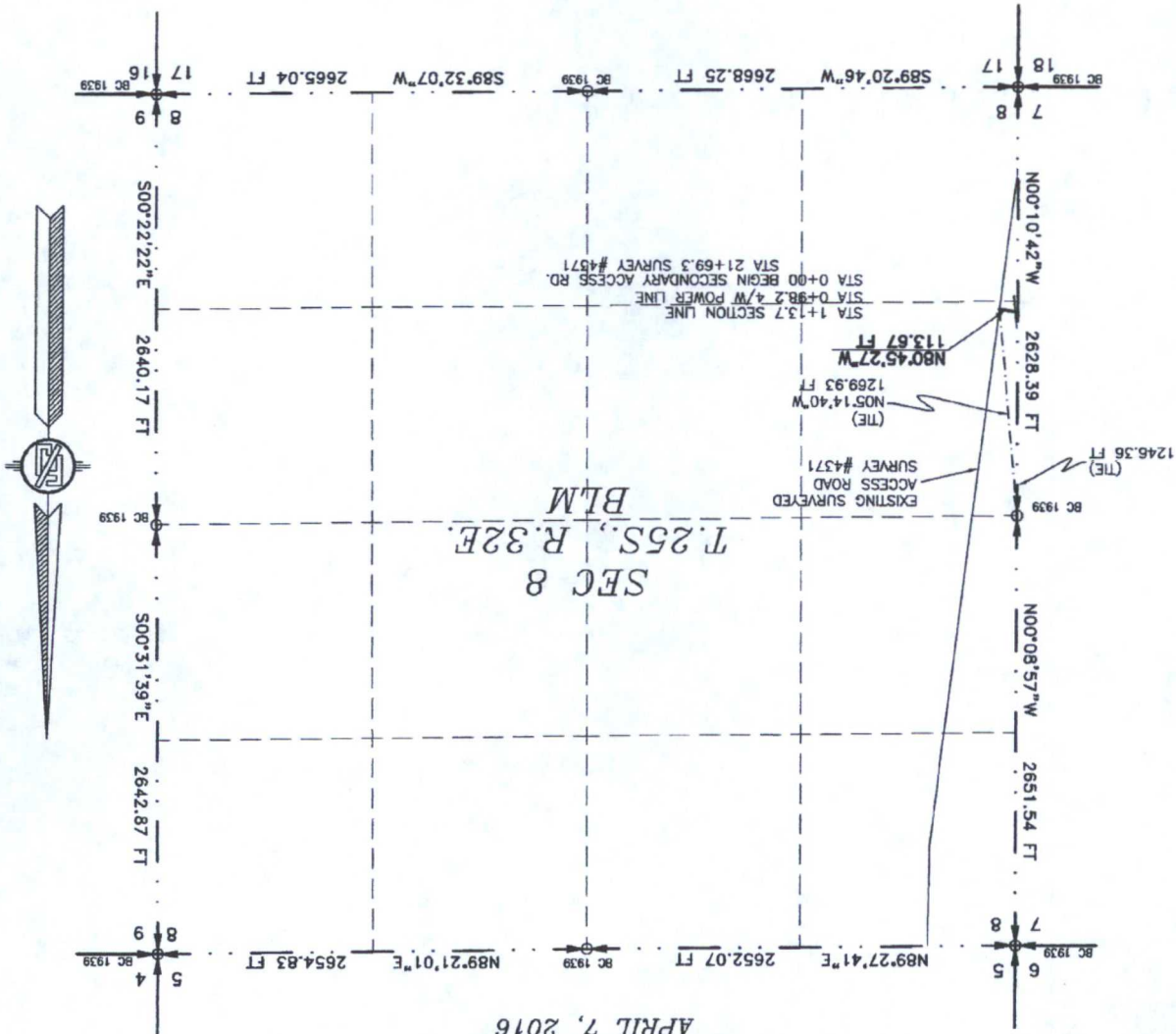
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LEA COUNTY, STATE OF NEW MEXICO

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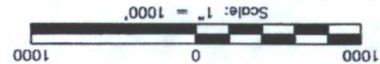
ACCESS ROAD PLAT (AA000060044)
 ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
 COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
 LEA COUNTY, STATE OF NEW MEXICO
 APRIL 7, 2016



SEE NEXT SHEET (2-10) FOR DESCRIPTION

SURVEYOR CERTIFICATE



GENERAL NOTES
 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.
 I, FLUMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.
 IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 21 DAY OF APRIL, 2016

SHEET: 1-10
 MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO
 SURVEY NO. 4347E
 MADRON SURVEYING, INC.
 301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 Phone (575) 234-3341

ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32
EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE
SURVEY:
BEGINNING AT A POINT WITHIN THE NW/4 SW/4 OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
WEST QUARTER CORNER OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N05°14'40"W, A DISTANCE OF
1269.93 FEET;
THENCE N80°45'27"W A DISTANCE OF 113.67 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE WEST QUARTER CORNER
OF SAID SECTION 8, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N00°10'42"W, A DISTANCE OF 1246.36 FEET;
SAID STRIP OF LAND BEING 113.67 FEET OR 6.89 RODS IN LENGTH, CONTAINING 0.078 ACRES MORE OR LESS AND BEING ALLOCATED
BY FORMS AS FOLLOWS:
NW/4 SW/4 113.67 L.F. 6.89 RODS 0.078 ACRES

SURVEYOR CERTIFICATE

I, RUDOLPH F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797,
HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY,
THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND
SURVEYING IN THE STATE OF NEW MEXICO.
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 21 DAY OF APRIL 2016

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO
SURVEY NO. 4347E
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341
SHEET: 2-10

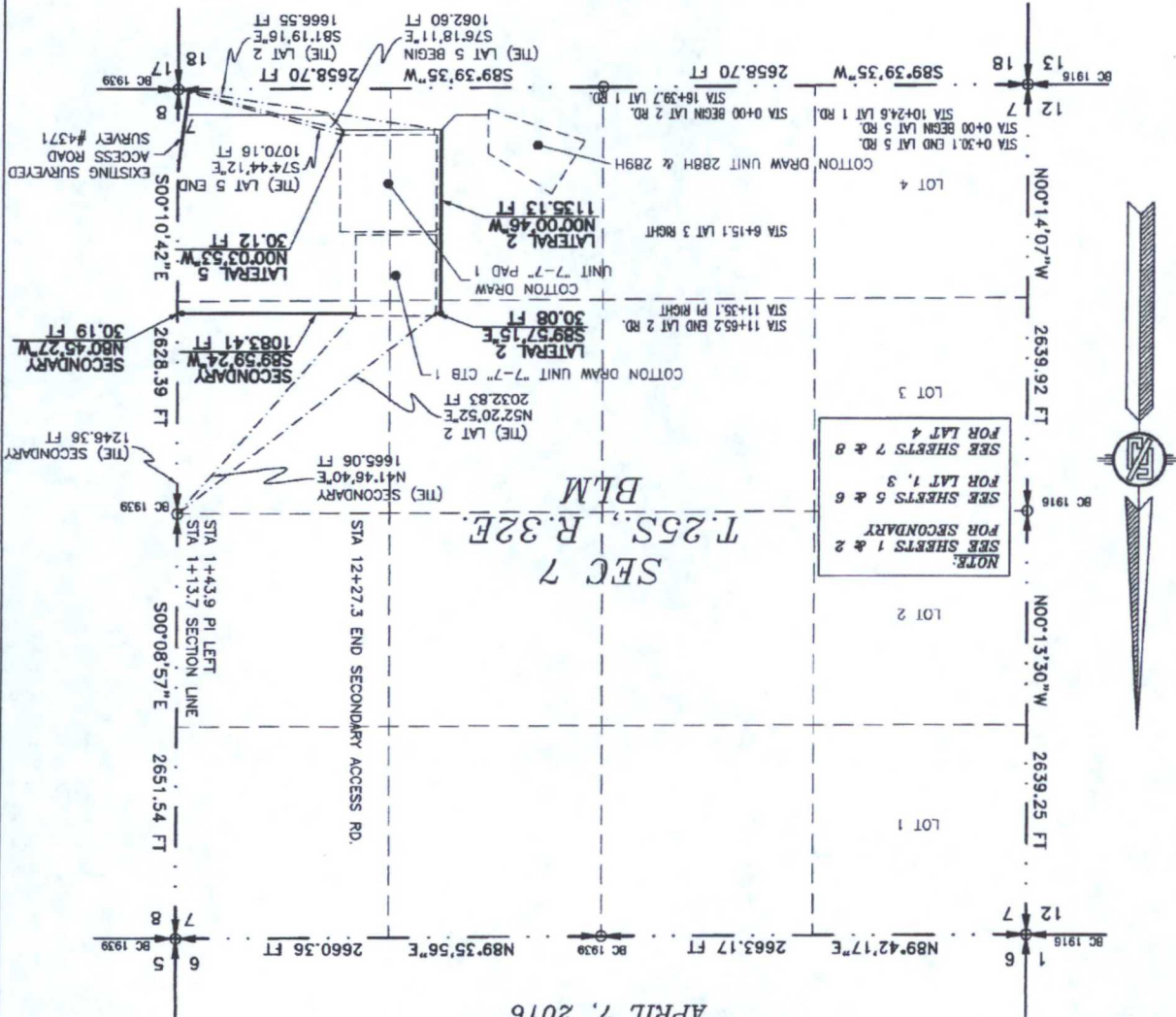
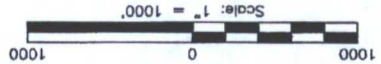
GENERAL NOTES
1.) THE INTENT OF THIS ROUTE SURVEY IS TO
ACQUIRE AN EASEMENT.
2.) BASIS OF BEARING IS NMSP EAST
MODIFIED TO SURFACE COORDINATES.

301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
MADRON SURVEYING, INC.
Phone (575) 234-3341

GENERAL NOTES
1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 7th DAY OF APRIL, 2016
FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

SURVEYOR CERTIFICATE

SEE NEXT SHEET (4-10) FOR DESCRIPTION



DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32
EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE
SURVEY:

SECONDARY ACCESS ROAD
BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
EAST QUARTER CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N00°10'42"W, A DISTANCE OF
1246.36 FEET;
THENCE S89°59'24"W A DISTANCE OF 1083.41 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER
OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N41°46'40"E, A DISTANCE OF 1665.06 FEET;
SAID STRIP OF LAND BEING 1113.60 FEET OR 67.49 RODS IN LENGTH, CONTAINING 0.767 ACRES MORE OR LESS AND BEING
ALLOCATED BY FORTEES AS FOLLOWS:
NE/4 SE/4 1113.60 L.F. 67.49 RODS 0.767 ACRES

LATERAL 2 ACCESS ROAD
BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
SOUTHEAST CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S81°19'16"E, A DISTANCE OF
1666.55 FEET;
THENCE N00°00'46"W A DISTANCE OF 1135.13 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°57'15"E A DISTANCE OF 30.08 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER
OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N62°20'52"E, A DISTANCE OF 2032.83 FEET;
SAID STRIP OF LAND BEING 1165.21 FEET OR 70.62 RODS IN LENGTH, CONTAINING 0.802 ACRES MORE OR LESS AND BEING
ALLOCATED BY FORTEES AS FOLLOWS:
SW/4 SE/4 1054.73 L.F. 63.92 RODS 0.726 ACRES
NW/4 SE/4 110.48 L.F. 6.70 RODS 0.076 ACRES

LATERAL 5 ACCESS ROAD
BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
SOUTHEAST CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S76°18'11"E, A DISTANCE OF
1062.60 FEET;
THENCE N00°03'53"W A DISTANCE OF 30.12 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF
SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S74°44'12"E, A DISTANCE OF 1070.16 FEET;
SAID STRIP OF LAND BEING 30.12 FEET OR 1.83 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED
BY FORTEES AS FOLLOWS:
SE/4 SE/4 30.12 L.F. 1.83 RODS 0.021 ACRES

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797,
HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY,
THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND
SURVEYING IN THE STATE OF NEW MEXICO.
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 01 DAY OF APRIL, 2016

GENERAL NOTES
1.) THE INTENT OF THIS ROUTE SURVEY IS TO
ACQUIRE AN EASEMENT.
2.) BASIS OF BEARING IS NMSP EAST
MODIFIED TO SURFACE COORDINATES.

SHEET: 4-10
MADRON SURVEYING, INC., CARLSBAD, NEW MEXICO
SURVEY NO. 4347E

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

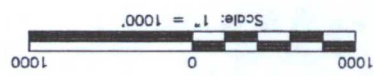
301 SOUTH CANAL
 CARLSBAD, NEW MEXICO 88220
 MADRON SURVEYING, INC.
 Phone (575) 234-3341



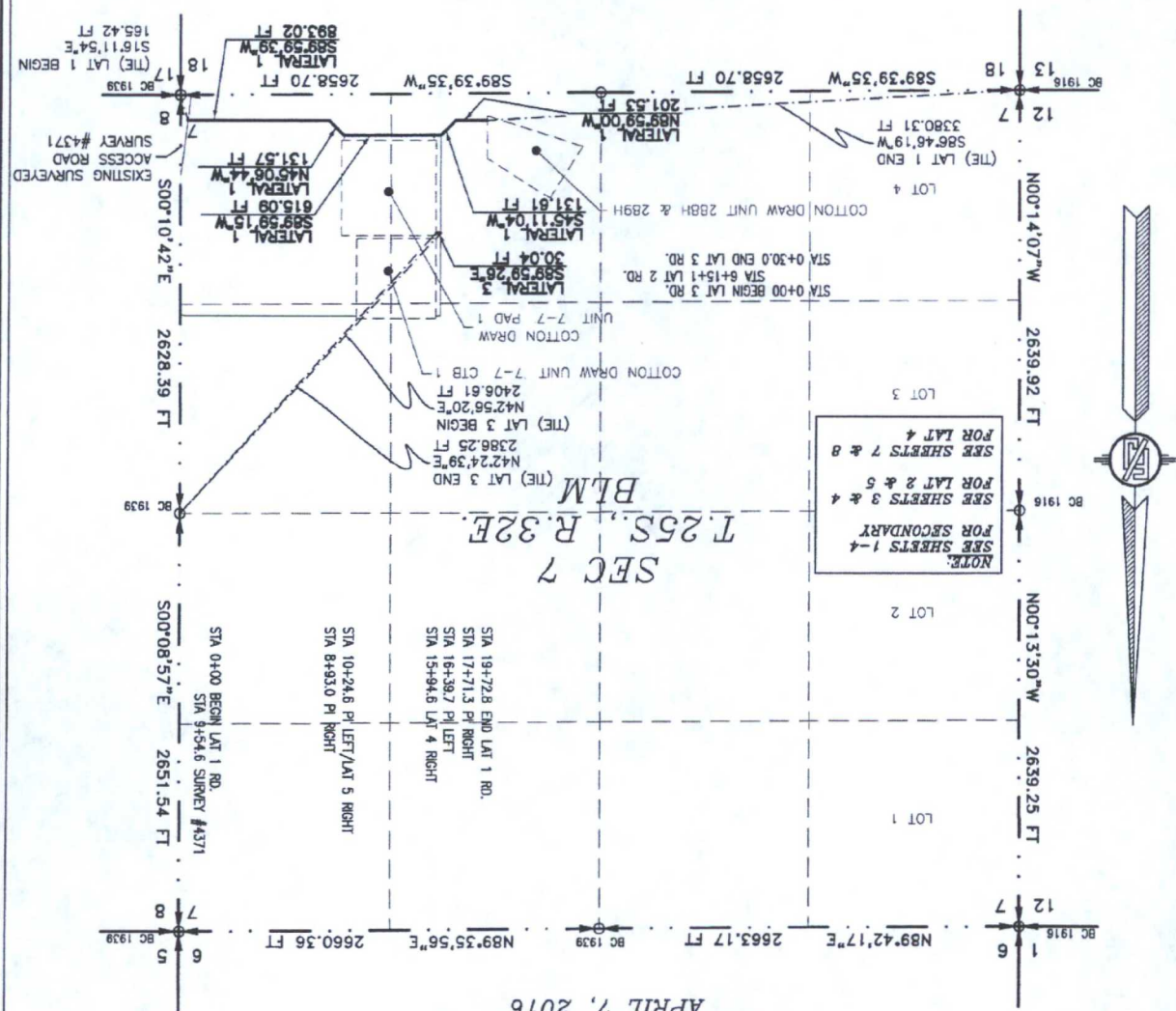
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS DAY OF APRIL 2016.

GENERAL NOTES
 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
 2.) BASIS OF BEARING IS NMSP EAST MODIFIED TO SURFACE COORDINATES.

SURVEYOR CERTIFICATE



SEE NEXT SHEET (6-10) FOR DESCRIPTION



ACCESS ROAD PLAT
 ACCESS ROAD TO THE COTTON DRAW UNIT 288H & 289H
 COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
 DEVON ENERGY PRODUCTION COMPANY, L.P.
 LEA COUNTY, STATE OF NEW MEXICO
 APRIL 7, 2016

ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32
EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE
SURVEY:

LATERAL 1 ACCESS ROAD
BEGINNING AT A POINT WITHIN THE SE/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
SOUTHEAST CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S16°11'54"E, A DISTANCE OF 165.42
FEET;
THENCE S89°59'39"W A DISTANCE OF 893.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N45°06'44"W A DISTANCE OF 131.57 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S89°59'15"W A DISTANCE OF 615.09 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S45°11'04"W A DISTANCE OF 131.61 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N69°59'00"W A DISTANCE OF 201.53 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF
SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S86°46'19"W, A DISTANCE OF 3380.31 FEET;
SAID STRIP OF LAND BEING 1972.82 FEET OR 119.56 RODS IN LENGTH, CONTAINING 1.359 ACRES MORE OR LESS AND BEING
ALLOCATED BY FORMES AS FOLLOWS:

SE/4 SE/4 1322.35 L.F. 80.14 RODS 0.911 ACRES
SW/4 SE/4 650.47 L.F. 39.42 RODS 0.448 ACRES

LATERAL 3 ACCESS ROAD
BEGINNING AT A POINT WITHIN THE SW/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
EAST QUARTER CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N42°56'20"E, A DISTANCE OF
2406.61 FEET;
THENCE S89°59'26"E A DISTANCE OF 30.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE EAST QUARTER CORNER
OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N42°24'39"E, A DISTANCE OF 2386.25 FEET;
SAID STRIP OF LAND BEING 30.04 FEET OR 1.82 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED
BY FORMES AS FOLLOWS:

SW/4 SE/4 30.04 L.F. 1.82 RODS 0.021 ACRES

GENERAL NOTES
1.) THE INTENT OF THIS ROUTE SURVEY IS TO
ACQUIRE AN EASEMENT.
2.) BASIS OF BEARING IS NMSP EAST
MODIFIED TO SURFACE COORDINATES.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO THIS 21 DAY OF APRIL, 2016

SHEET: 6-10
MADRON SURVEYING INC. CARLSBAD, NEW MEXICO
SURVEY NO. 4347E
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341
101 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SHEET: 7-10 MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO
SURVEY NO. 4347E

301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
MADRON SURVEYING, INC.
Phone (575) 234-3341

NEW MEXICO, THIS DAY OF APRIL 2016

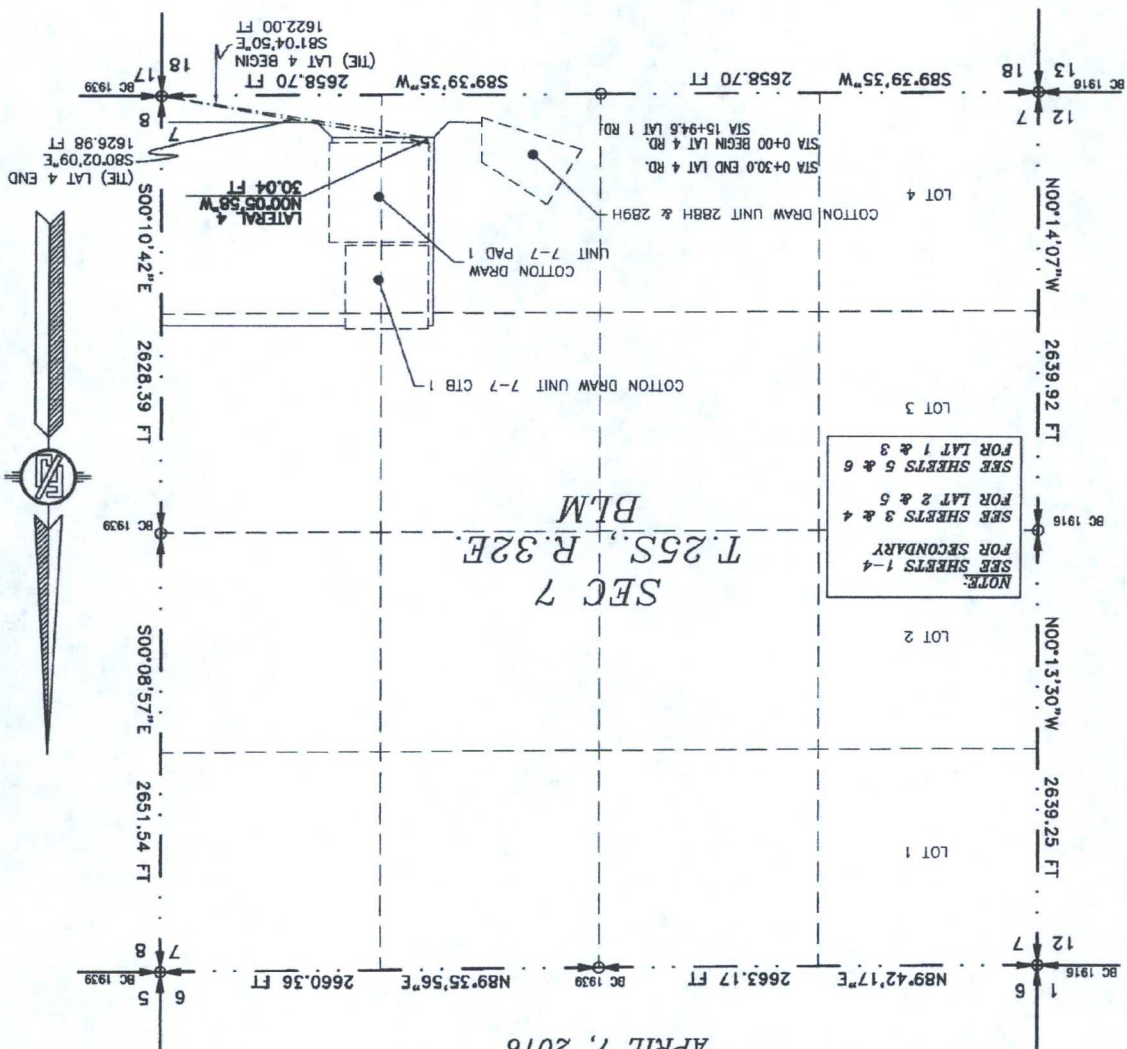
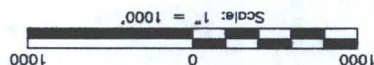
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

SURVEYOR CERTIFICATE

SEE NEXT SHEET (8-10) FOR DESCRIPTION

GENERAL NOTES
1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
2.) BASIS OF BEARING IS NAD83 EAST MODIFIED TO SURFACE COORDINATES.



ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE COTTON DRAW UNIT 288H & 289H
DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7, PAD 1, COTTON DRAW UNIT 7-7, CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32
EAST, N.M.P.M., LEA COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE
SURVEY:
LATERAL 4 ACCESS ROAD
BEGINNING AT A POINT WITHIN THE SW/4 OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE
SOUTHEAST CORNER OF SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S81°04'50"E, A DISTANCE OF
1622.00 FEET;
THENCE N00°05'58"W A DISTANCE OF 30.04 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF
SAID SECTION 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S80°02'09"E, A DISTANCE OF 1626.98 FEET;
SAID STRIP OF LAND BEING 30.04 FEET OR 1.82 RODS IN LENGTH, CONTAINING 0.021 ACRES MORE OR LESS AND BEING ALLOCATED
BY FORTIES AS FOLLOWS:
SW/4 SE/4 30.04 L.F. 1.82 RODS 0.021 ACRES

SURVEYOR CERTIFICATE

I, FILMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797,
HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY,
THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND
BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND
SURVEYING IN THE STATE OF NEW MEXICO.
IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,
NEW MEXICO, THIS 27th DAY OF APRIL 2016

MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 4347E

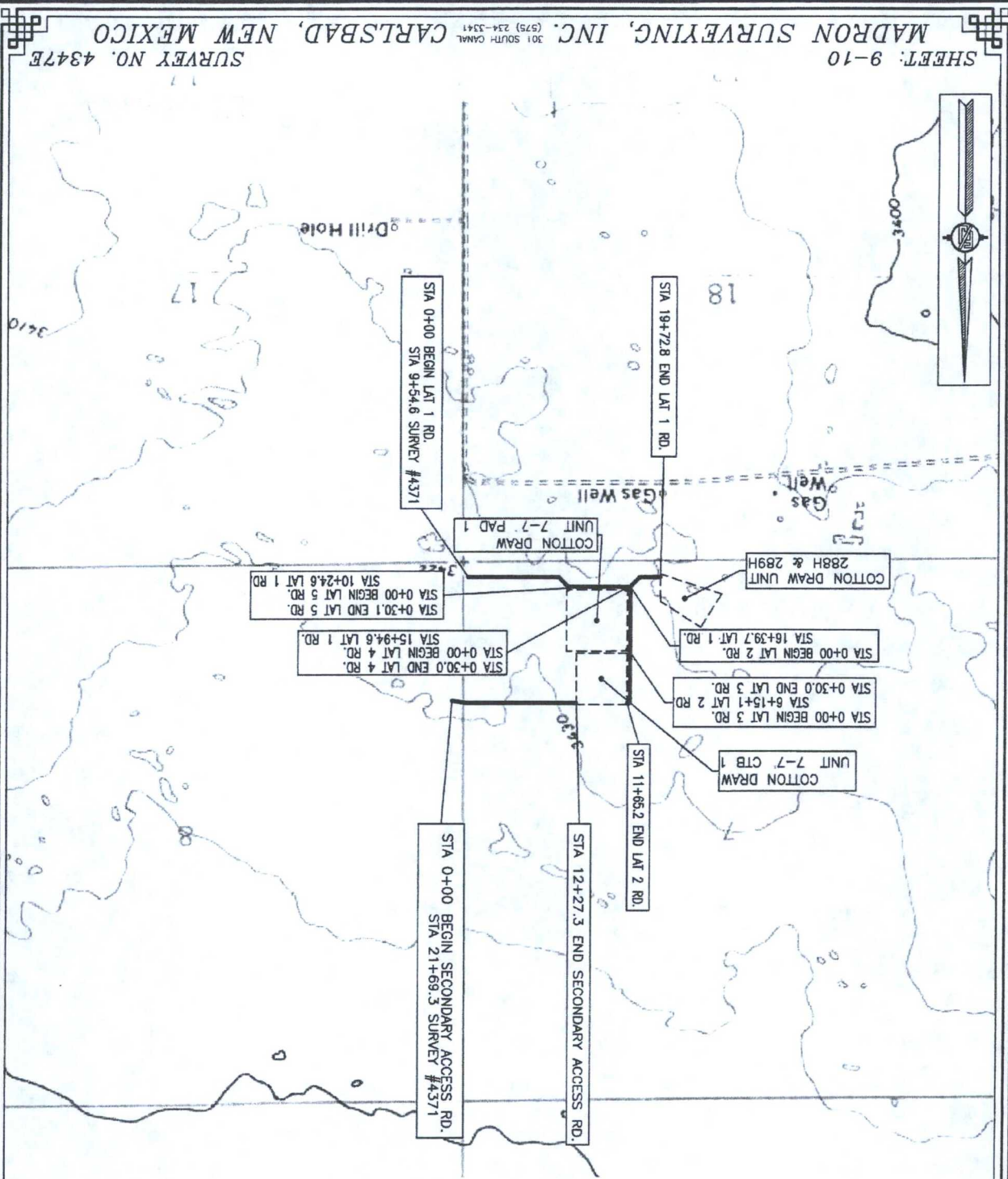
MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

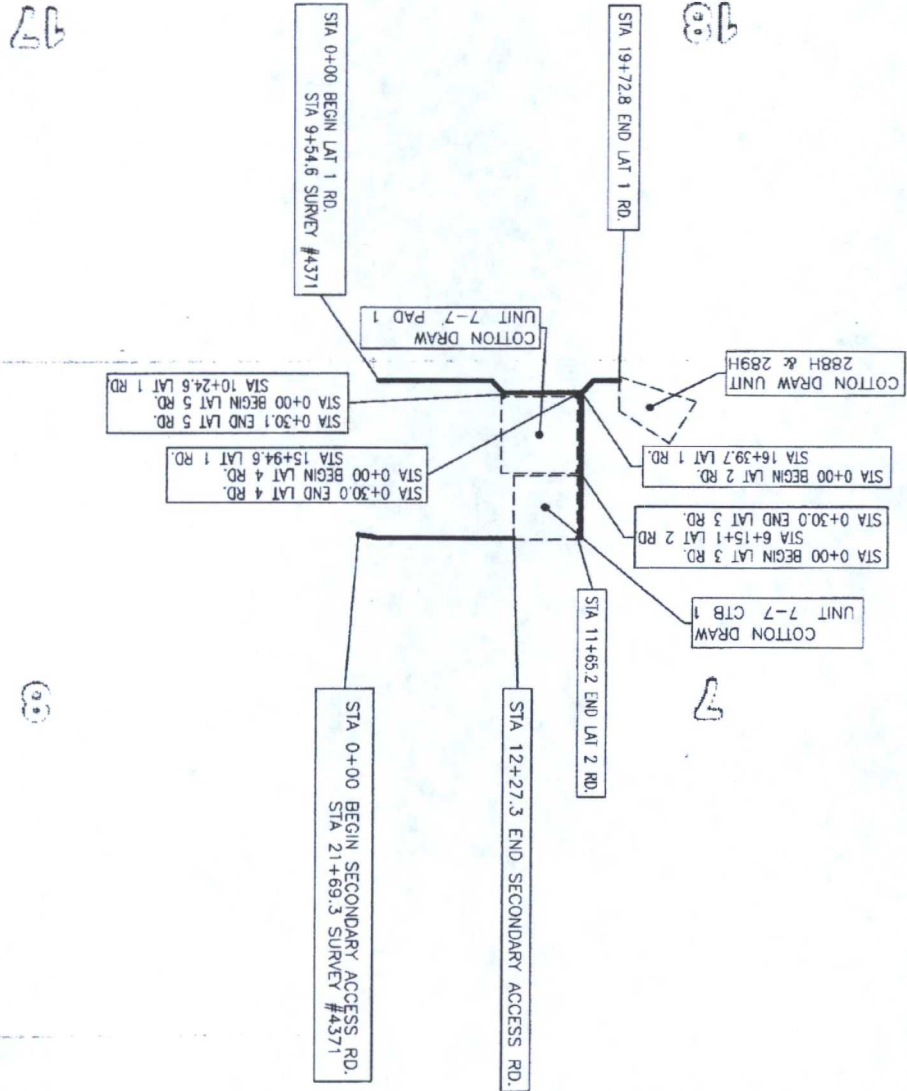
SHEET: 8-10

- GENERAL NOTES
- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
 - 2.) BASIS OF BEARING IS NMS-P EAST MODIFIED TO SURFACE COORDINATES.

ACCESS ROAD PLAT
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 8, 7, TOWNSHIP 26 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016





ACCESS ROAD PLAT (AA000060044)
ACCESS ROAD TO THE COTTON DRAW UNIT 7-7 PAD 1, COTTON DRAW UNIT 7-7 CTB 1, AND THE
COTTON DRAW UNIT 288H & 289H
DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTIONS 8, 7, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
APRIL 7, 2016

SEE THE ATTACHED LEGAL DESCRIPTION

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83, New Mexico East Zone 3001, US Survey Feet, all distances are grid.

30' EASEMENT AREA = 0.738 ACRE(S)
1087.14 FEET OR 65.88 RODS

Drawn by: CHRIS MAAS	Date: 01/21/2016
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повер

Drawn for:

PROPOSED 30' EASEMENT
ON THE PROPERTY OF
BUREAU OF LAND MANAGEMENT
SECTION 7, T25S-R32E, N.M.P.M.

1 OF 5

REVISIONS:

1 = 1

DEVON ENERGY PRODUCTION COMPANY, L.P.

SUM OF 3 1 1 RD CONNECT EFFECTIVE ENF

SIM OPS 1 PAD CONNECT ELECTRIC LINE

NUMBER:	NUMBER:
---------	---------

HORIZON ROW LLC

LEGEND
POWER POLE

0 1000 2000

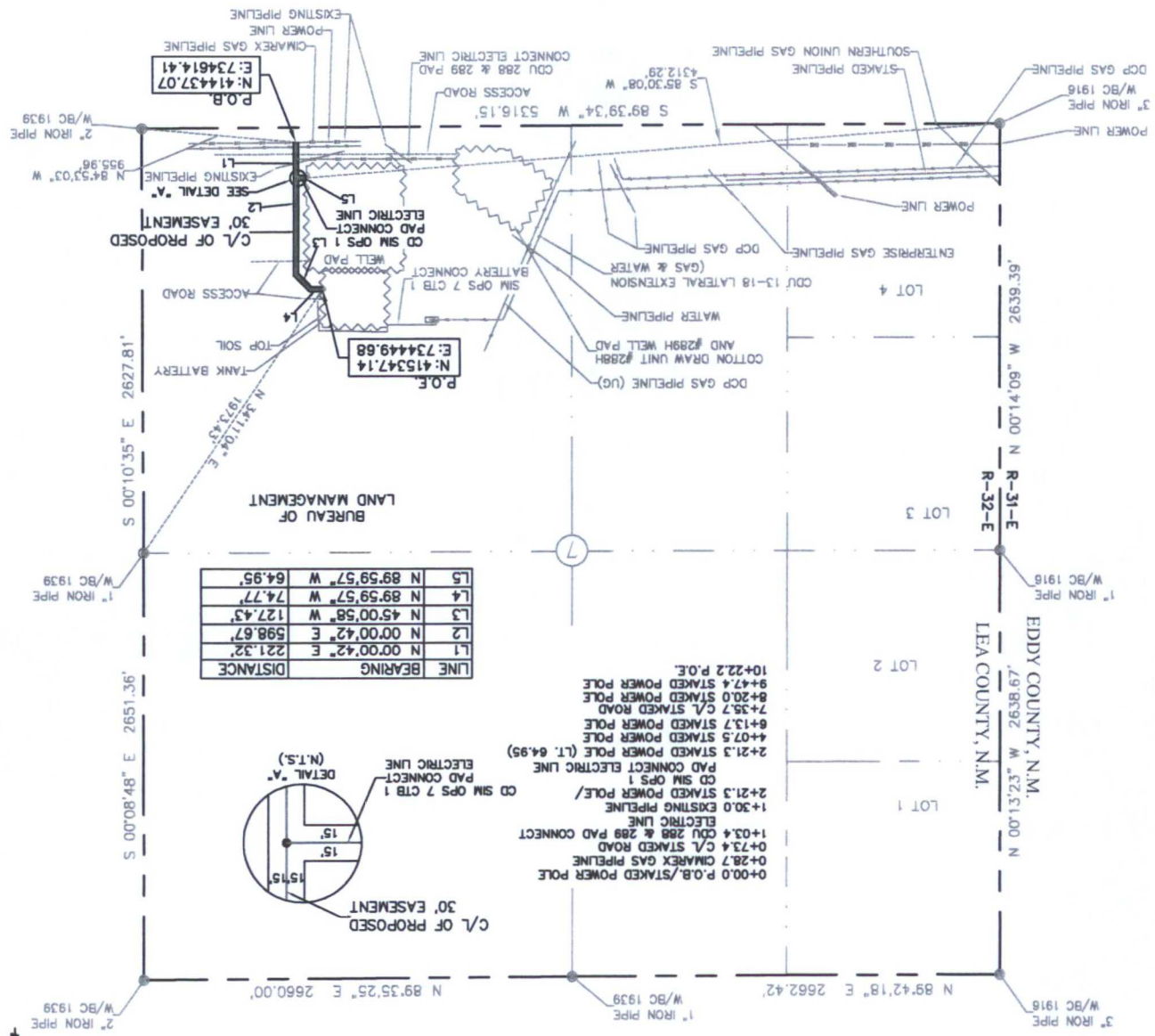


EXHIBIT "A"
PAGE 1 of 5
ELECTRIC LINE PLAT
SECTION 7, T25S-R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

SECTION 7, T25S-R32E, N.M.P.M.,
LEA COUNTY, NEW MEXICO

ELECTRIC LINE PLAT

LEGAL DESCRIPTION

FOR

DEVON ENERGY PRODUCTION COMPANY, L.P.

BUREAU OF LAND MANAGEMENT

30' EASEMENT DESCRIPTION:

BEING an easement thirty (30) feet in width lying fifteen (15) feet on the right side and fifteen (15) feet on the left side of the survey centerline described below, being out of the southeast quarter (SE ¼) of Section 7, Township 25 South, Range 32 East, N.M.P.M., Lea County, New Mexico, and being out of a parcel of land owned by the Bureau of Land Management. Said centerline of easement being more particularly described as follows:

Commencing from a 2" iron pipe w/ BC1939 found for the southeast corner of Section 7, T25S-R32E, N.M.P.M., Lea County, New Mexico;

Thence N 84°53'03" W a distance of 955.96' to the **Point of Beginning** of this easement having coordinates of Northing=414437.07, Easting=734614.41 feet and continuing the following courses;

Thence N 00°00'42" E a distance of 221.32' to the first point of intersection;

Thence N 89°59'57" W a distance of 64.95' to a point of termination of a portion of this easement in the southeast quarter of Section 7, T25S-R32E, N.M.P.M., where a 3" iron pipe w/BC 1916 for the southwest corner of said Section 7 bears for reference S 85°30'08" W a distance of 4312.29';

Thence resuming from said first point of intersection N 00°00'42" E a distance of 598.67' to an angle point;

Thence N 45°00'58" W a distance of 127.43' to an angle point;

Thence N 89°59'57" W a distance of 74.77' to the **Point of Ending** having coordinates of Northing= 415347.14, Easting= 734449.68 feet in the southeast quarter of Section 7, T25S-R32E, N.M.P.M., Lea County, New Mexico, from said point a 1" iron pipe w/BC

1939 for the east quarter corner of Section 7, T25S-R32E, bears N 34°11'04" E a distance of 1973.43', covering **1087.14' or 65.88 rods** and having an area of **0.738 acres**.

NOTES:

Bearings, distances and coordinates shown herein are based on New Mexico State Plane Coordinate System, NAD 83, East Zone 3001, US Survey Feet, all distances are grid.

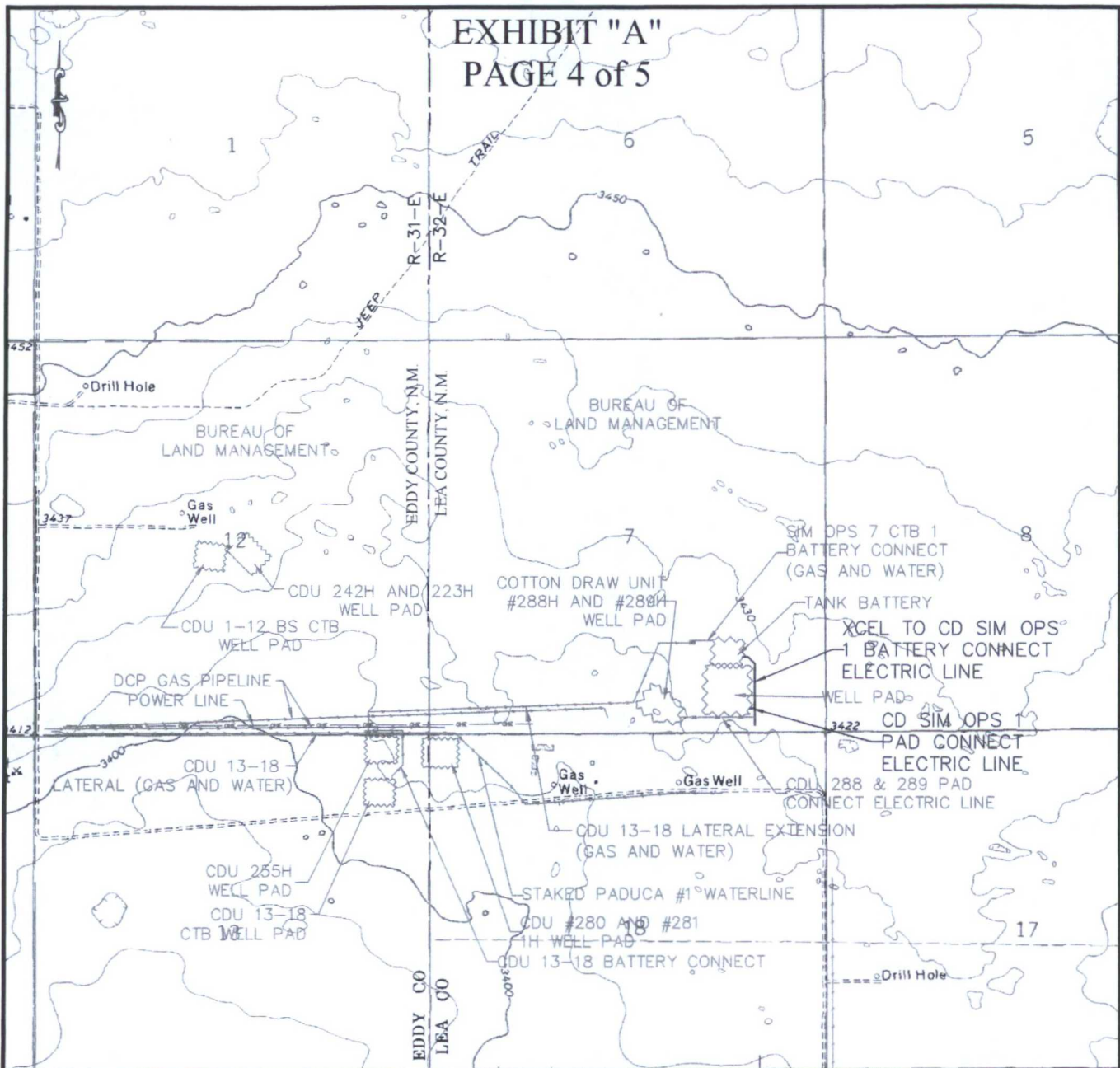
I, B.L. Laman, New Mexico PLS No. 22404, hereby certify this survey to reflect an actual survey made on the ground under my supervision. This survey meets the minimum standards for surveying in New Mexico.



B.L. Laman PLS# 22404
Date Signed: 01-31-2016
Horizon Row, LLC
571 State Street Jasper, Tx
(409) 202-5111 75951
Employee of Horizon Row, LLC



EXHIBIT "A"
PAGE 4 of 5



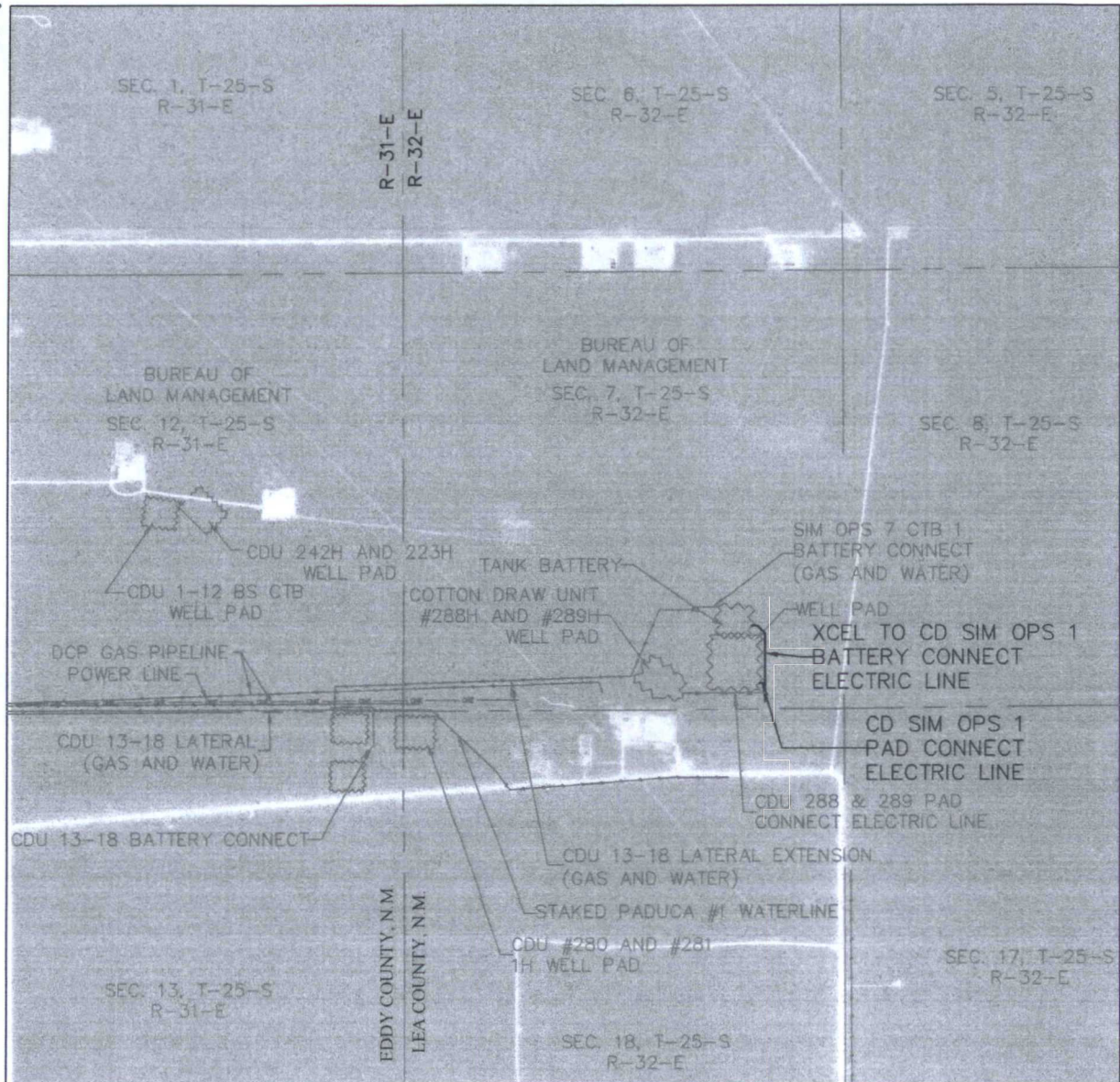
QUAD MAP

SECTION 7, T25S-R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC		WBS NUMBER:	LINE NUMBER:
XCEL TO CD SIM OPS CTB 1 BATTERY CONNECT ELECTRIC LINE		CD-112971.AL	
CD SIM OPS 1 PAD CONNECT ELECTRIC LINE		CD-112971.AL	
Drawn for:	DEVON ENERGY PRODUCTION COMPANY, L.P.		
 Drawn by: CHRIS MAAS	PROPOSED 30' EASEMENT ON THE PROPERTY OF BUREAU OF LAND MANAGEMENT SECTION 7, T25S-R32E, N.M.P.M.		SCALE: 1" = 1000' REVISIONS: 1/28/16 CMAAS SHEET: 4 OF 5
	Date: 01/21/2016		

EXHIBIT "A"

PAGE 5 of 5



AERIAL MAP

SECTION 7, T25S-R32E, N.M.P.M.
LEA COUNTY, NEW MEXICO

HORIZON ROW LLC		WBS NUMBER:	LINE NUMBER:
XCEL TO CD SIM OPS CTB 1 BATTERY CONNECT ELECTRIC LINE		CC-112971.AL	
CD SIM OPS 1 PAD CONNECT ELECTRIC LINE		CC-112971.AL	
Drawn for:	DEVON ENERGY PRODUCTION COMPANY, L.P.		
		SCALE: 1" = 1000'	
		REVISIONS: 1/29/16 CMAAS	
Drawn by: CHRIS MAAS	Date: 01/21/2016	PROPOSED 30' EASEMENT ON THE PROPERTY OF BUREAU OF LAND MANAGEMENT SECTION 7, T25S-R32E, N.M.P.M. SHEET: 5 OF 5	