

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

Hydrogen Sulfide (H₂S) Contingency Plan

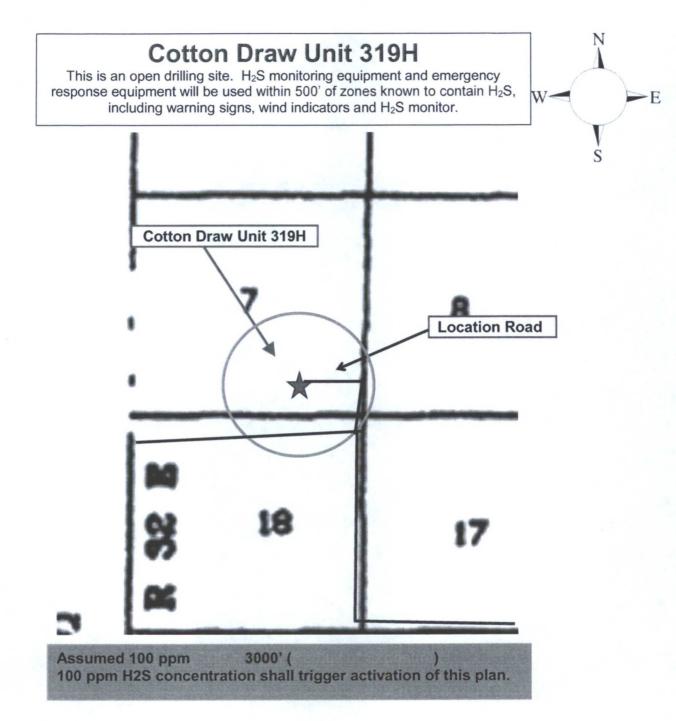
For

Cotton Draw Unit 319H

Sec-7 T-25S R-32E 690' FSL & 1405' FEL LAT = 32.1394720' N (NAD83) LONG = 103.7103627' W

Lea County NM

Devon Energy Corp. Cont Plan. Page 1



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. <u>There are no homes or buildings in or near the ROE</u>.

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 NMOCD 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

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

Characteristics of H₂S and SO₂

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 the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

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:

- 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 H_2S zone (within 3 days or 500 feet) and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan.

II. HYDROGEN SULFIDE TRAINING

Note: All H_2S 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 H_2S .

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

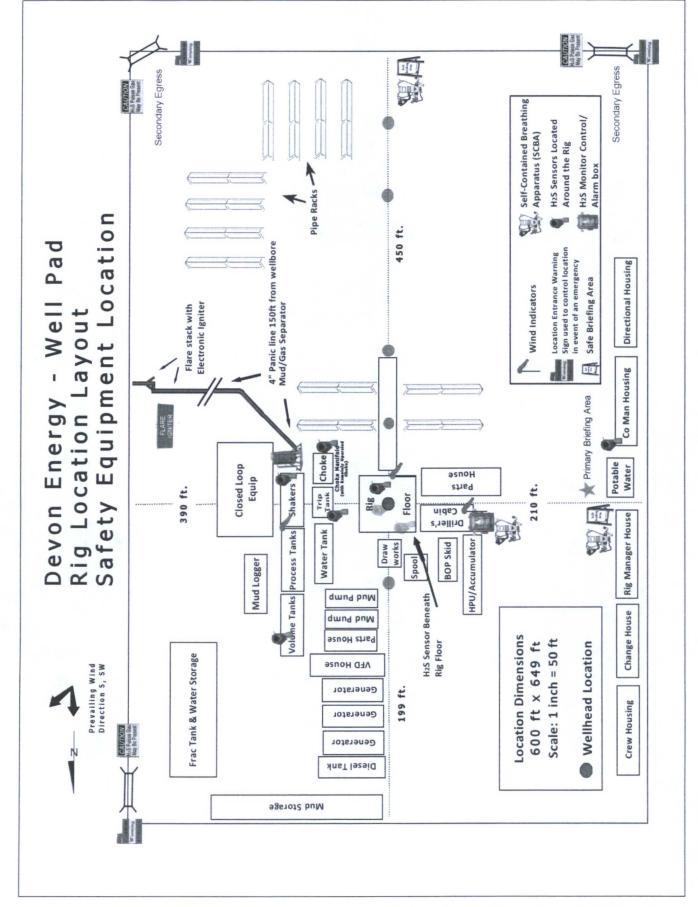
7. Well testing:

- 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.

Drilling Su	lling Supervisor – Basin – Mark Kramer				
Drilling Su	405-760-7234				
EHS Profe	575-513-9087				
Agency	Call List	1			
Lea	Hobbs				
County	Lea County Communication Authority	393-3981			
<u>(575)</u>	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			
Eddy	Carlsbad				
County	State Police	885-3137			
(575)	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	(000) 200 1110			
	Wild Well Control	(281) 784-4700			
	Cudd Pressure Control (915) 699-0139	(915) 563-3356			
	Halliburton	(575) 746-2757			
	B. J. Services	(575) 746-3569			
Give	Native Air – Emergency Helicopter – Hobbs	(575) 392-6429			
GPS	Flight For Life - Lubbock, TX	(806) 743-9911			
position:	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

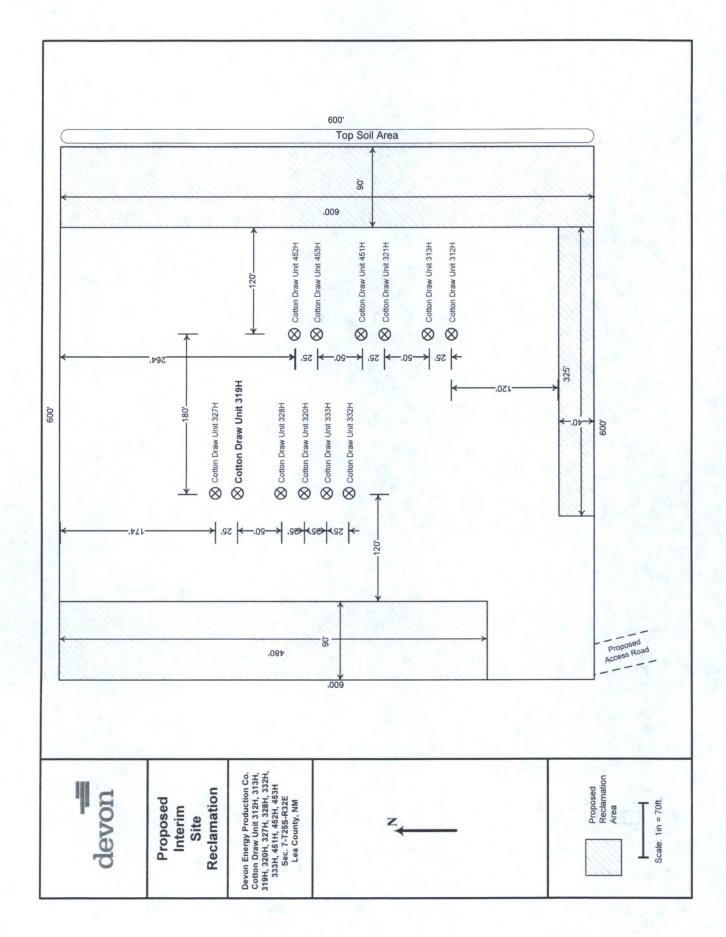




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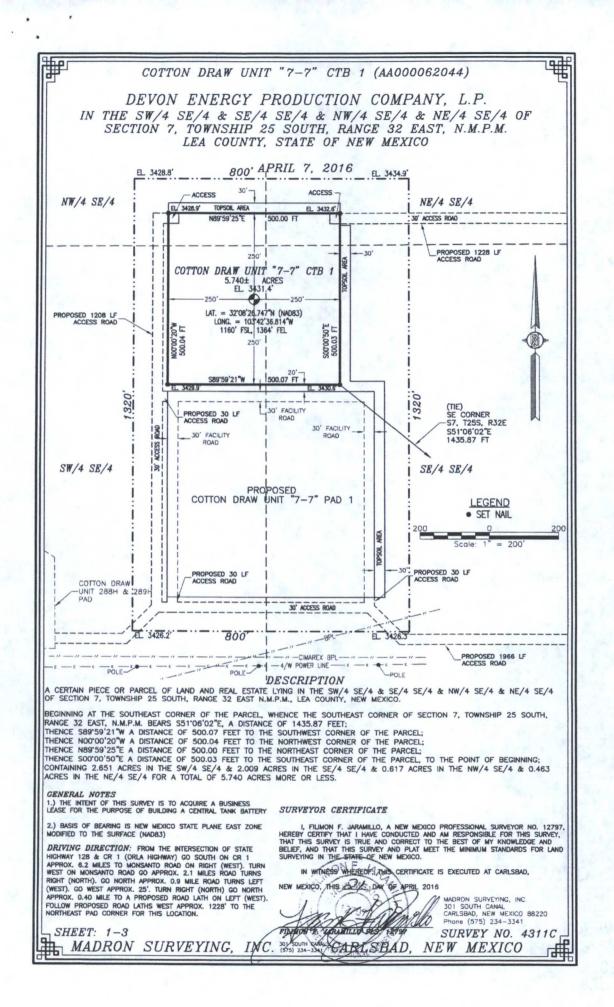
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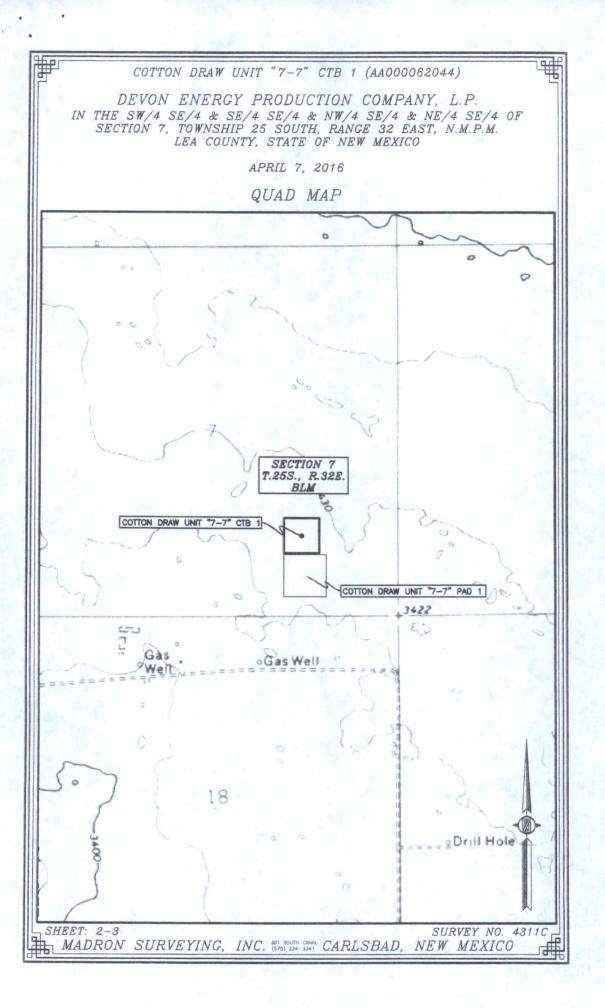
Devon Energy Corp. Cont Plan. Page 8

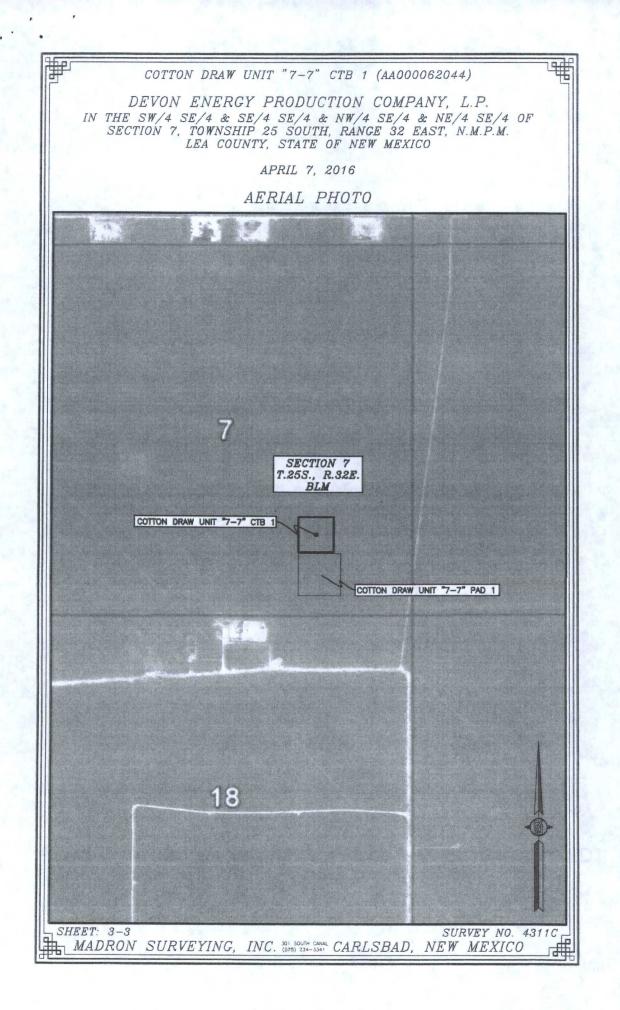


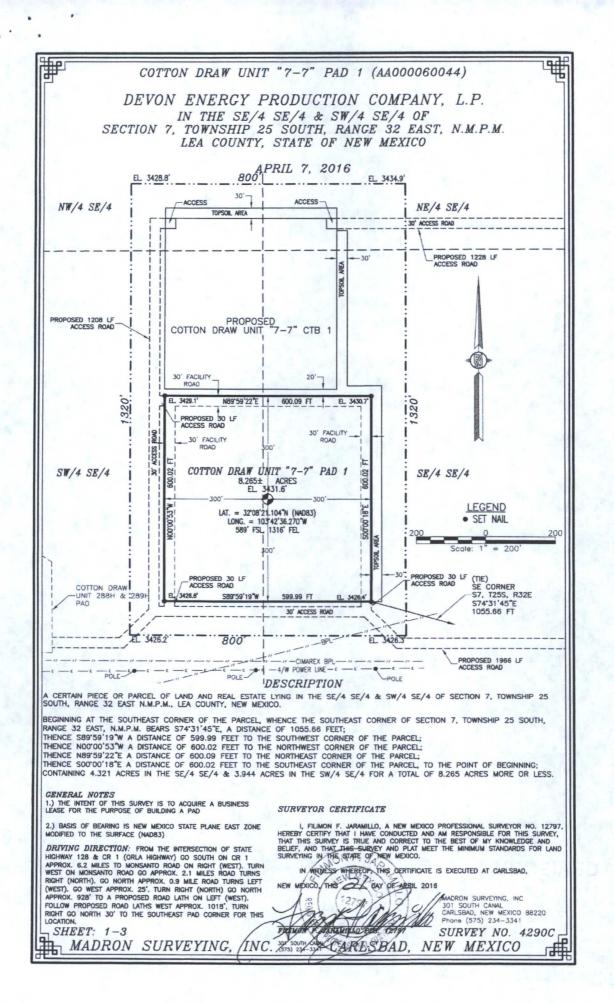
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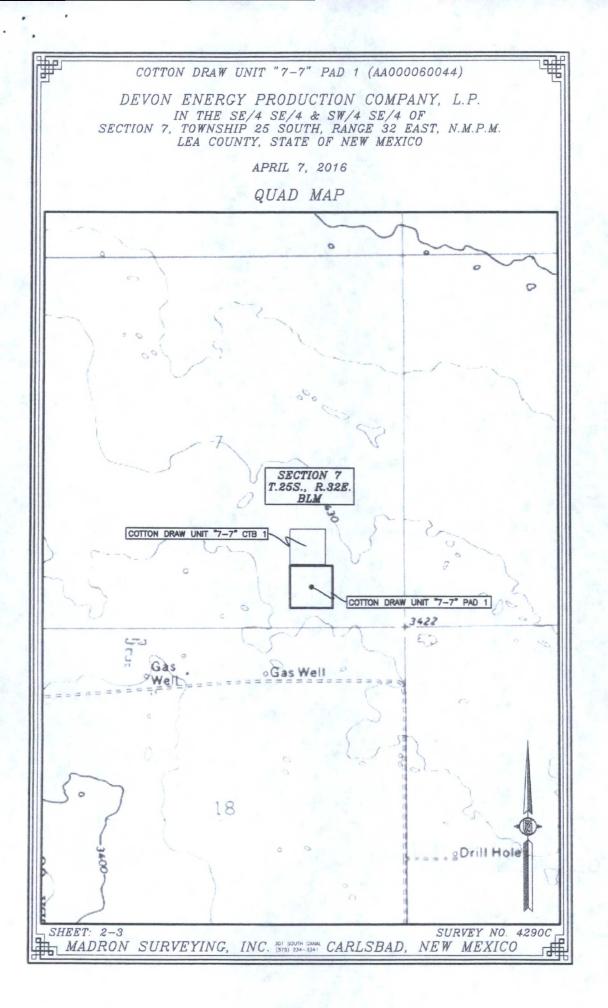
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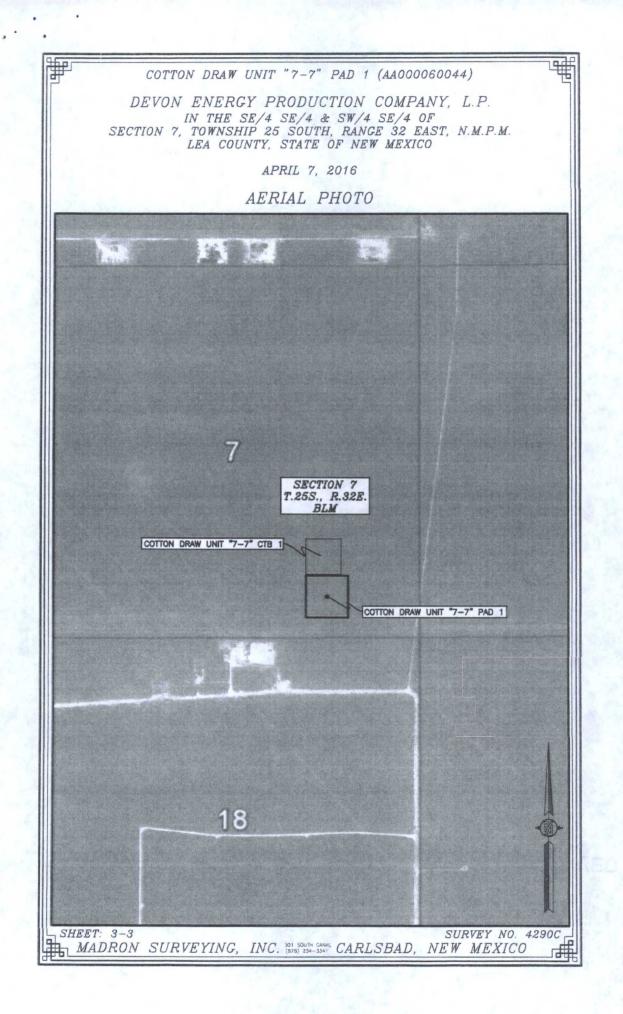


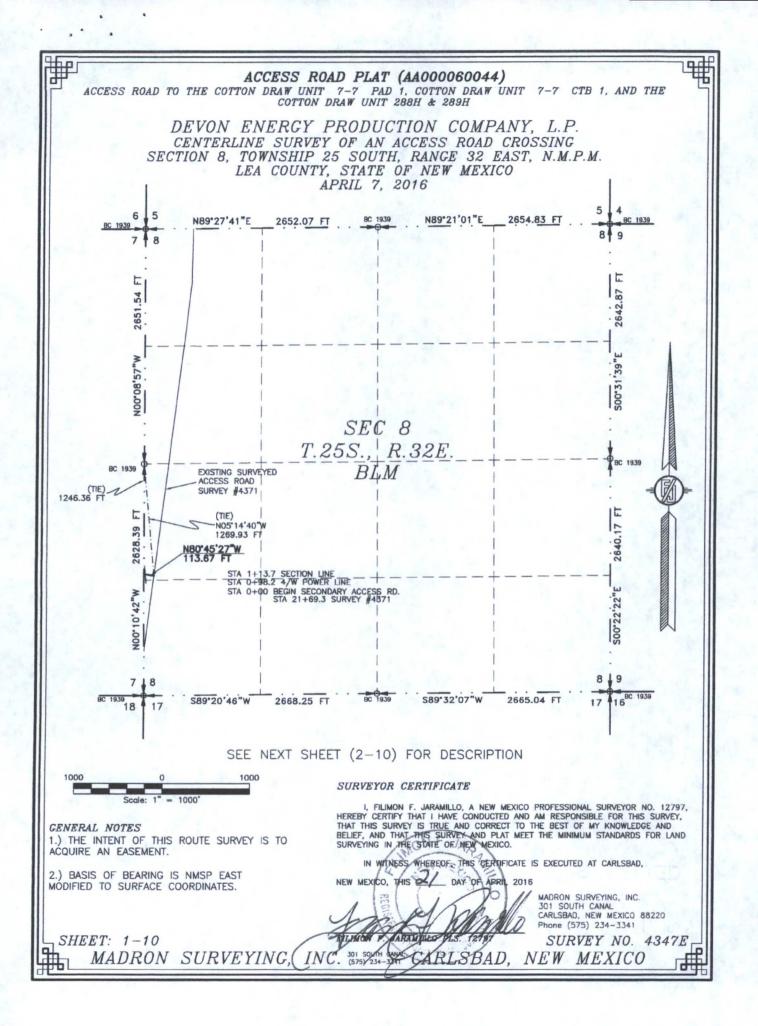












ACCESS ROAD PLAT (AA000060044)

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, RANCE 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 NO0'10'42"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 FORTIES AS FOLLOWS:

NW/4 SW/4 113.67 L.F. 6.89 RODS 0.078 ACRES

SURVEYOR CERTIFICATE

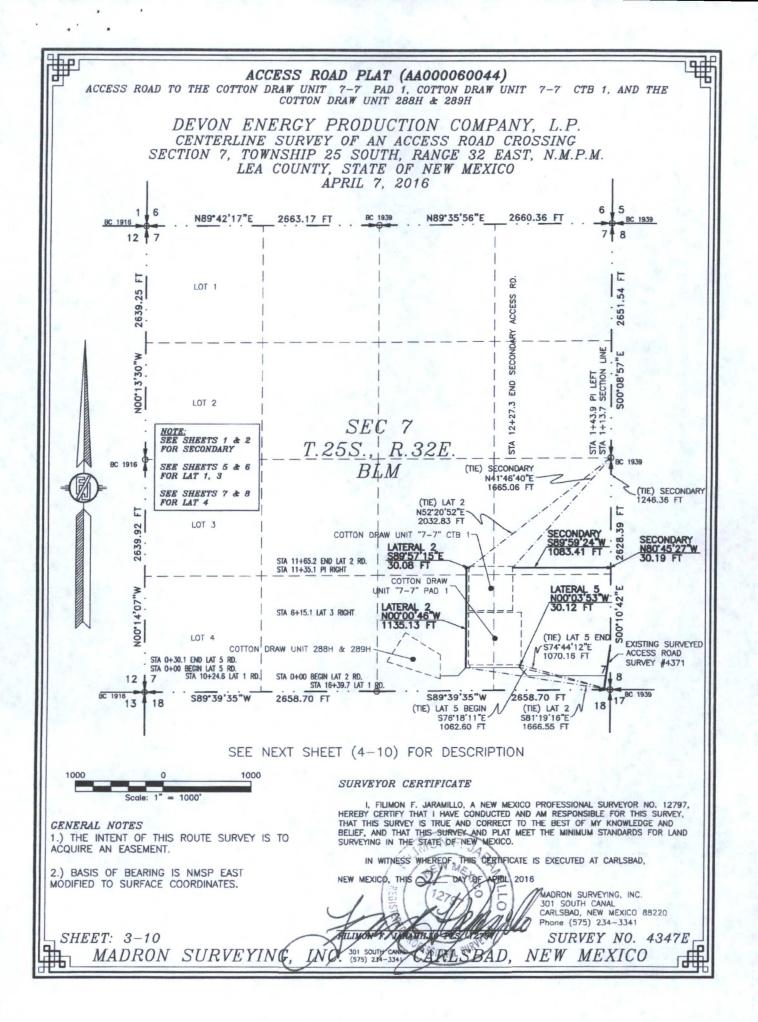
GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2. MÓ

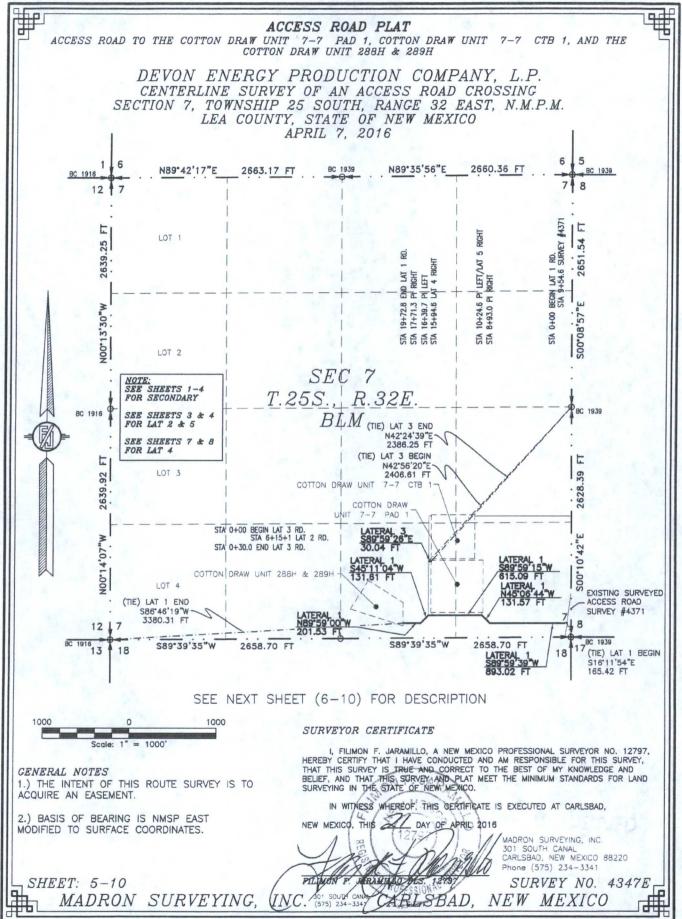
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I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

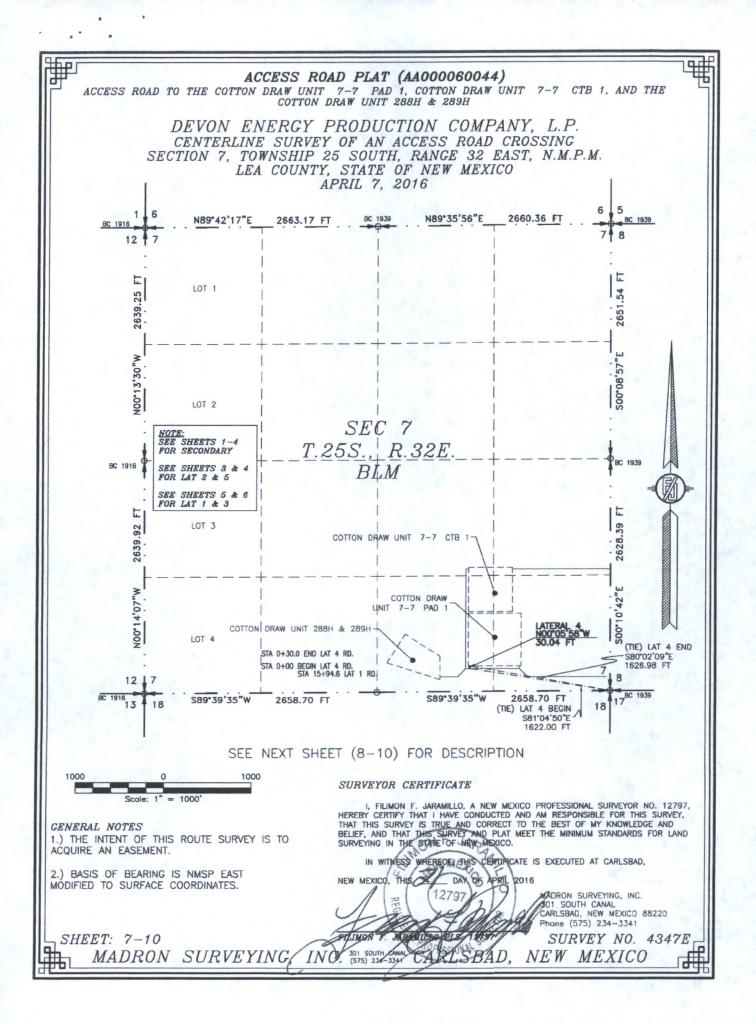
BASIS OF BEARING IS NMSP EAST DIFIED TO SURFACE COORDINATES.	NEW MEXICO, THIS 2/ DAY OF APRIL 2016 MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341
SHEET: 2-10	ENGINE FARAUERO FLA. 12797 SURVEY NO. 4347E
MADRON SURVEYING	INC. (575) 254-3541 CARLSBAD, NEW MEXICO



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 NOO'10'42"W, A DISTANCE OF 1246.36 FEET; THENCE N80'45'27" W A DISTANCE OF 30.19 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED; 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 FORTIES 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 FFFT: THENCE NO0'00'46"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 N52"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 FORTIES AS FOLLOWS: SW/4 SE/4 1054.73 L.F. 63.92 RODS 0.726 ACRES 110.48 L.F. 6.70 RODS 0.076 ACRES NW/4 SE/4 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 NO0'03'53"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 FORTIES AS FOLLOWS: SE/4 SE/4 30.12 L.F. 1.83 RODS 0.021 ACRES SURVEYOR CERTIFICATE I, FILIMON 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. GENERAL NOTES 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT. IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD, 2.) BASIS OF BEARING IS NMSP EAST NEW MEXICO, THIS AL DAY OF APRIL 2016 MODIFIED TO SURFACE COORDINATES. MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 DOINON F SMALMEL 42797 SHEET: 4-10 PLS SURVEY NO. 4347E MADRON SURVEYING, (INC. 1575), 234-334 CARLSBAD, NEW MEXICO dt



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LATERAL 4 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 SB1'04'50"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

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FILMON F. JA

MADRON SURVEYING, (INC. 1575) 234-3341 CARLSBAD,

CENERAL 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: 8-10

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IN WITNESS WHEREOF, THIS GERAFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 2007 DAY OF APRIL 2016

> AADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341 SURVEY NO. 4347E

> > dt

NEW MEXICO

