

Intent ☒ As Drilled ☐

JAN 16 2019

API # 30-015-45637			RECEIVED					
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.						Property Name: LONE TREE DRAW 14-13 STATE COM		

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	14	21S	27E		1310'	FSL	195'	FWL	EDDY
Latitude 32.476490					Longitude -104.168460				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	14	21S	27E		1310	SOUTH	100	WEST	EDDY
Latitude 32.4764880					Longitude 104.1687698				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
P	13	21S	27E		1310	SOUTH	100	EAST	EDDY
Latitude 32.4767604					Longitude 104.1347454				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒ YES

Is this well an infill well? ☐ NO

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:		Well Number
Property Name:		

KZ 06/29/2018

## Devon Energy – Lone Tree Draw 14-13 State Com 335H

### 1. Geologic Formations

TVD of target	8858	Pilot hole depth	N/A
MD at TD:	19179	Deepest expected fresh water:	

#### Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Tansill	263		
Capitan	635		
Delaware	2834		
1st BSPG Lime	5384		
1st BSPG Sand	6614		
2nd BSPG Lime	6770		
2nd BSPG Sand	7359		
3rd BSPG Lime	7706		
3rd BSPG Sand	8614		
3BSS F	8850		
3BSS G	8909		
Wolfcamp	8954		

\*H2S, water flows, loss of circulation, abnormal pressures, etc.

## Devon Energy – Lone Tree Draw 14-13 State Com 335H

### 2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (PPF)	Grade	Conn.
	From	To				
17.5"	0	288	13.375"	48	H-40	STC
12.25"	0	2934	9.625"	36	J-55	LTC
8.75"	0	TD	5.5"	17	P-110	BTC
BLM Minimum Safety Factor				Collapse: 1.125	Burst: 1.00	Tension: 1.6 Dry 1.8 Wet

- All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h Must have table for contingency casing
- Rustler top will be validated via drilling parameters (i.e. reduction in ROP) and surface casing setting depth revised accordingly if needed.
- Variance is requested for collapse rating on intermediate casing. Operator will keep pipe full while running casing. No losses are expected in subsequent hole section.
- Int casing shoe will be selected based on drilling data, gamma, and flows experienced while drilling. Setting depth will be revised accordingly if needed.
- A variance is requested to waive the centralizer requirement for the intermediate and production casing strings if drilling conditions dictate

**Devon Energy – Lone Tree Draw 14-13 State Com 335H**

	<b>Y or N</b>
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 <sup>rd</sup> string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 <sup>nd</sup> string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

## Devon Energy – Lone Tree Draw 14-13 State Com 335H

### 3. Cementing Program (3-String Primary Design)

Casing	# Sks	TOC	Wt. (lb/gal)	H <sub>2</sub> O (gal/sk)	Yld (ft <sup>3</sup> /sack)	Slurry Description
Surface	300	Surf	13.2	6.33	1.33	Lead: Class C Cement + additives
Int	507	Surf	9	20.6	1.94	Lead: Class C Cement + additives
	196	500' above shoe	13.2	6.42	1.33	Tail: Class H / C + additives
Int 1 Two Stage w DV @ ~800	450	Surf	9	20.6	1.94	Stage 1 Lead: Class C Cement + additives
	196	500' above shoe	13.2	6.42	1.33	Stage 1 Tail: Class H / C + additives
	105	Surf	13.2	6.33	1.33	Stage 2 Lead: Class C Cement + additives
Production	853	500' tieback	9	20.6	1.94	Lead: Class H / C + additives
	2064	KOP	13.2	5.31	1.33	Tail: Class H / C + additives

If a DV tool is ran the depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. Slurry weights will be adjusted based on estimated fracture gradient of the formation. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. If cement is not returned to surface during the primary cement job on the surface casing string, a planned top job will be conducted immediately after completion of the primary job.

Casing String	% Excess
Surface	100%
Intermediate	50%
Production	10%

**Devon Energy – Lone Tree Draw 14-13 State Com 335H**

**4. Pressure Control Equipment**

<b>BOP installed and tested before drilling which hole?</b>	<b>Size?</b>	<b>Min. Required WP</b>	<b>Type</b>	<b>✓</b>	<b>Tested to:</b>
Int 1	13-5/8"	3M	Annular	X	50% of rated working pressure
			Blind Ram		3M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram		5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		

## Devon Energy – Lone Tree Draw 14-13 State Com 335H

### 5. Mud Program

Interval	Type	Weight (ppg)	Vis	Water Loss
Surface	FW	8.5 – 9.0	28-34	N/C
Intermediate	Brine	10 – 10.5	28-34	N/C
Production	WBM	8.5 – 9.0	28-34	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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### 6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned	Interval
Resistivity	
Density	
X CBL	Production casing
X Mud log	KOP to TD

### 7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4146 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S Plan attached

## Devon Energy – Lone Tree Draw 14-13 State Com 335H

### 8. Other facets of operation

Is this a walking operation? Potentially

1. If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
2. The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
3. The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

1. Spudder rig will move in and drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.
2. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
3. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
4. A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
5. Spudder rig operations is expected to take 4-5 days per well on a multi well pad.
6. The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
7. Drilling operations will be performed with the drilling rig. At that time an approved BOP stack will be nipped up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

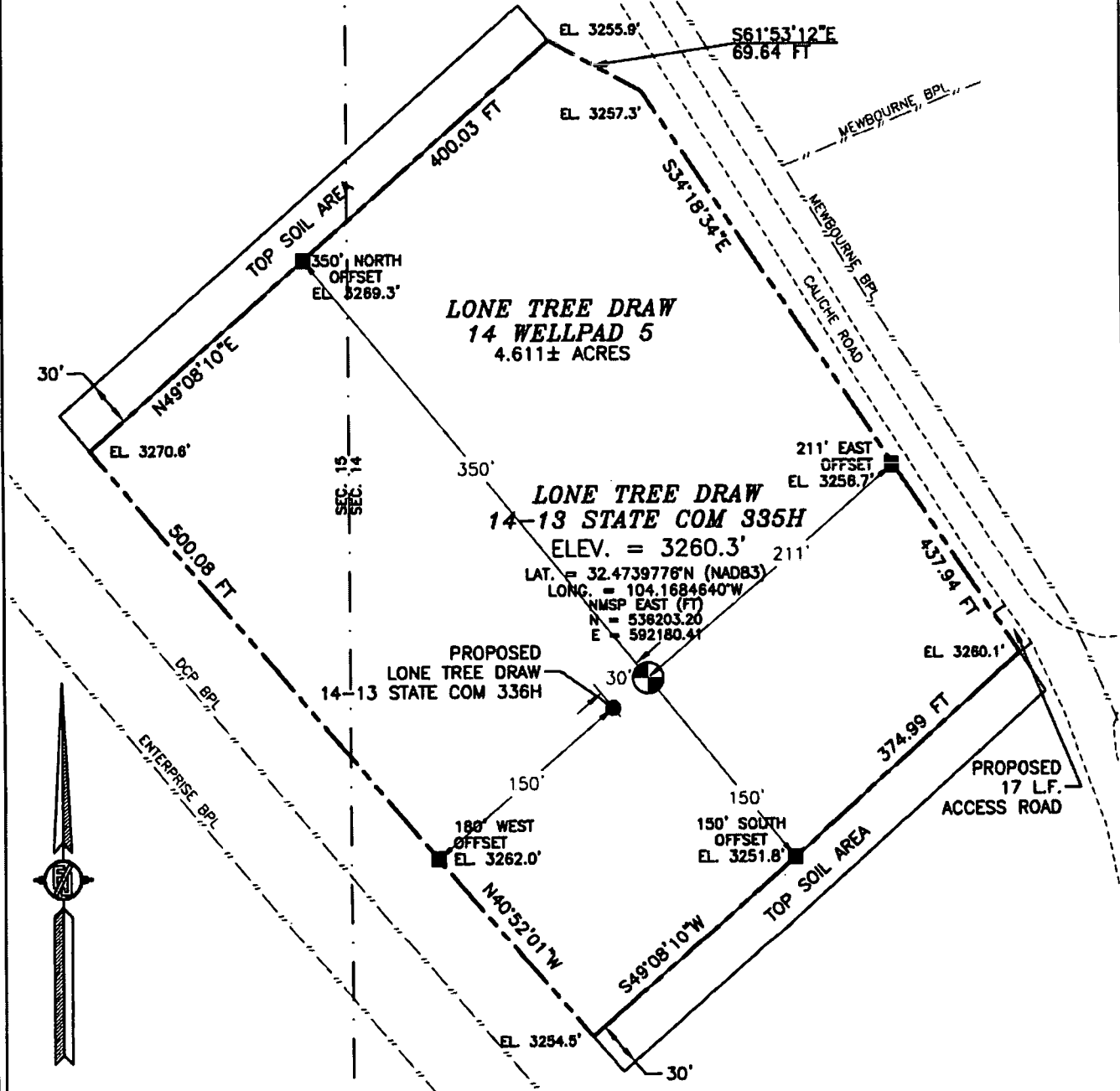
Attachments

  x   Directional Plan

       Other, describe



SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
SITE MAP



010 50 100 200  
SCALE 1" = 100'

**DIRECTIONS TO LOCATION**

FROM CR. 208 (ILLINOIS CAMP) & CR. 600 (RAINS) GO EAST-NORTHEAST ON CR. 600 2.2 MILES, BEND LEFT AND GO NORTHEAST 0.1 MILE, TURN RIGHT AND GO SOUTHEAST 0.52 MILE, BEND LEFT AND GO EAST 0.9 MILE, TURN RIGHT AND GO SOUTH 0.5 MILE, TURN RIGHT AND GO SOUTHWEST 0.8 MILE, TURN LEFT AND GO SOUTHEAST 0.47 MILE TO A ROAD SURVEY AND FOLLOW FLAGS 17' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

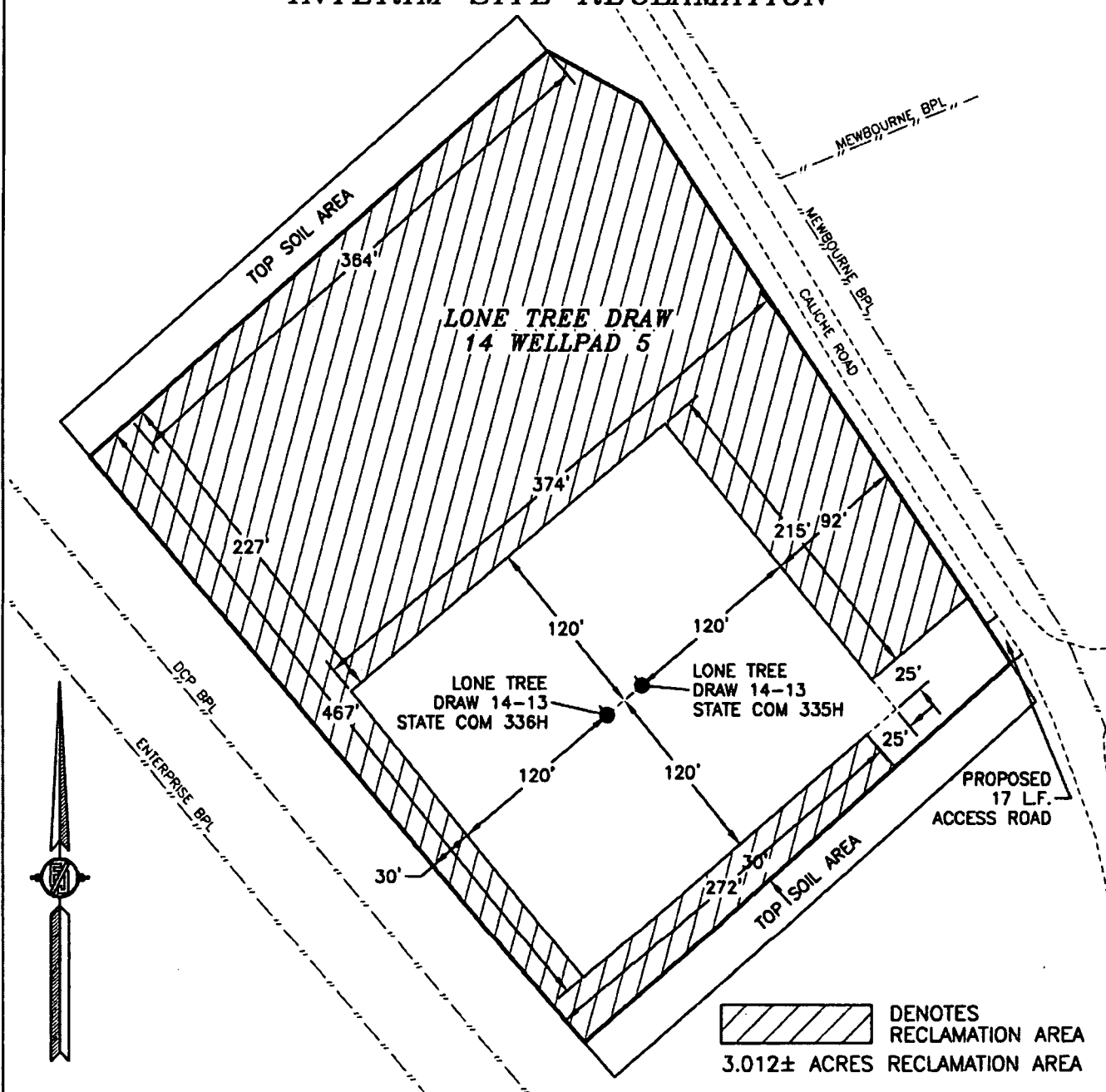
DEVON ENERGY PRODUCTION COMPANY, L.P.  
**LONE TREE DRAW 14-13 STATE COM 335H**  
LOCATED 396 FT. FROM THE SOUTH LINE  
AND 195 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 6, 2018

SURVEY NO. 6732

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

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
INTERIM SITE RECLAMATION



 DENOTES RECLAMATION AREA  
3.012± ACRES RECLAMATION AREA

010 50 100 200  
SCALE 1" = 100'

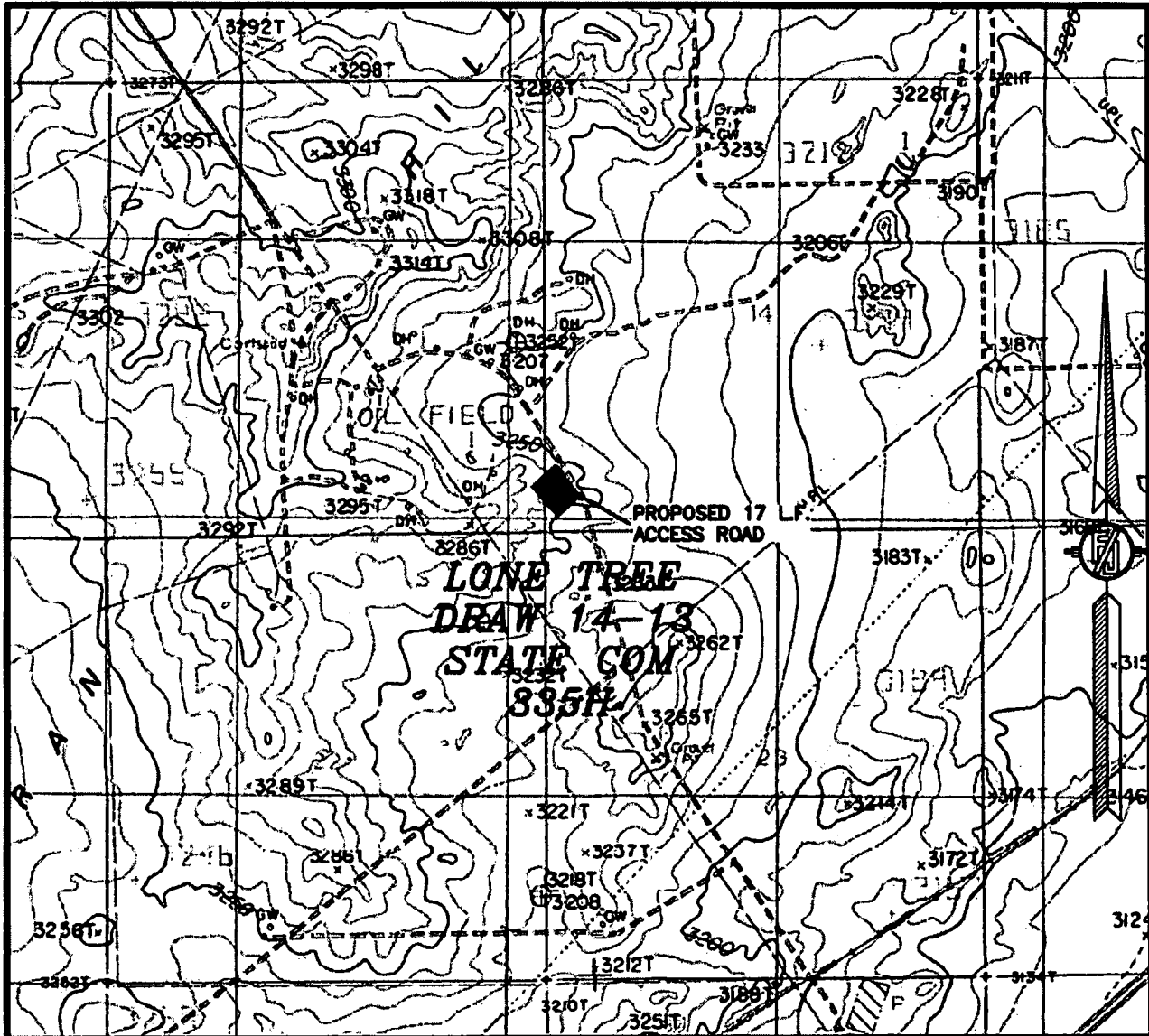
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EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 6, 2018

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SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
LOCATION VERIFICATION MAP



USGS QUAD MAP:  
CARLSBAD EAST

NOT TO SCALE

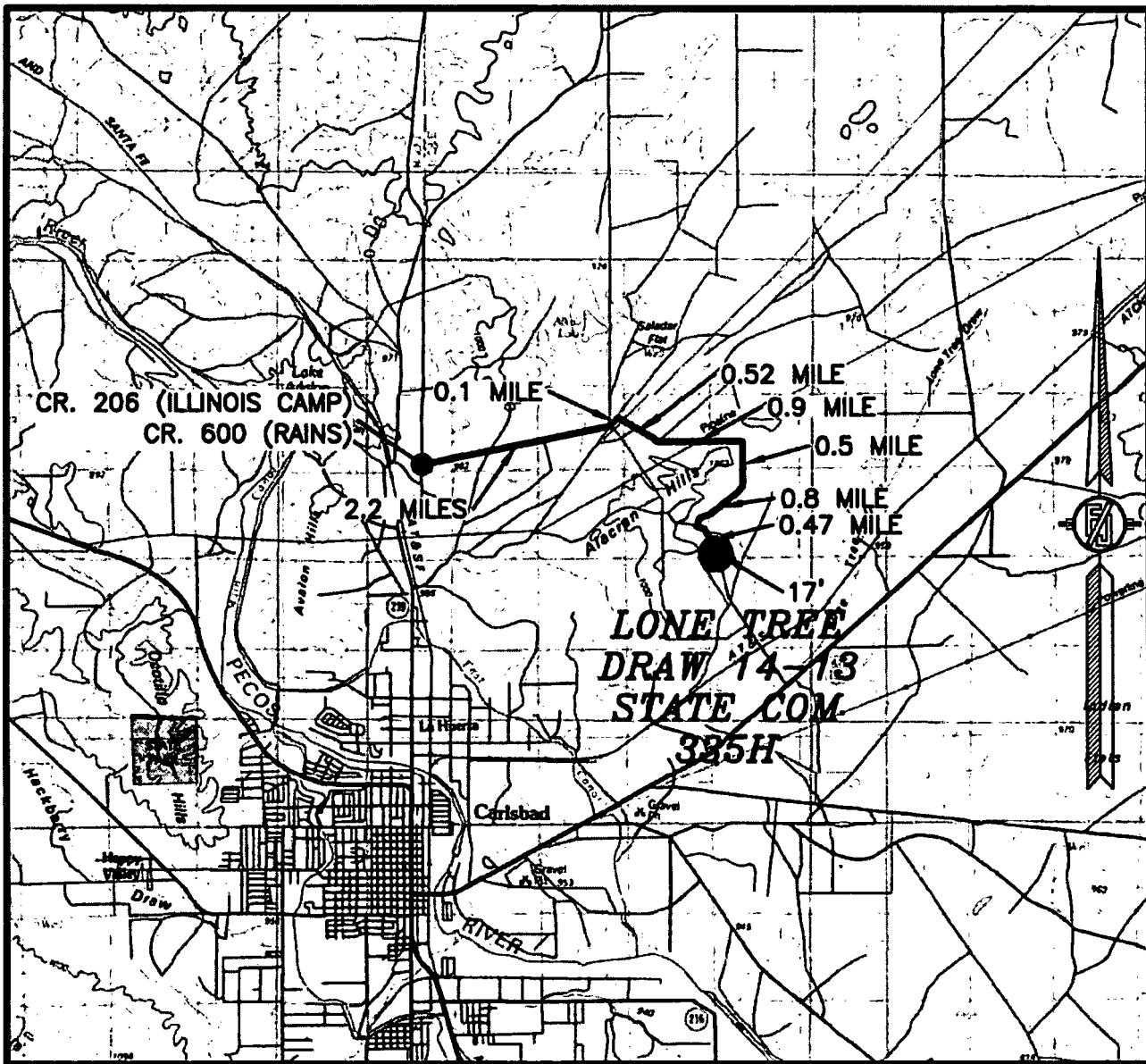
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EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 6, 2018

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

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
VICINITY MAP



### ***DISTANCES IN MILES***

**NOT TO SCALE**

### DIRECTIONS TO LOCATION

FROM CR. 206 (ILLINOIS CAMP) & CR. 800 (RAINS) GO EAST--NORTHEAST ON CR. 600 2.2 MILES, BEND LEFT AND GO NORTHEAST 0.1 MILE, TURN RIGHT AND GO SOUTHEAST 0.52 MILE, BEND LEFT AND GO EAST 0.9 MILE, TURN RIGHT AND GO SOUTH 0.5 MILE, TURN RIGHT AND GO SOUTHWEST 0.8 MILE, TURN LEFT AND GO SOUTHEAST 0.47 MILE TO A ROAD SURVEY AND FOLLOW FLAGS 17' TO THE SOUTHEAST PAD CORNER FOR THIS LOCATION.

**DEVON ENERGY PRODUCTION COMPANY, L.P.**  
**LONE TREE DRAW 14-13 STATE COM 335H**

LOCATED 396 FT. FROM THE SOUTH LINE  
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SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

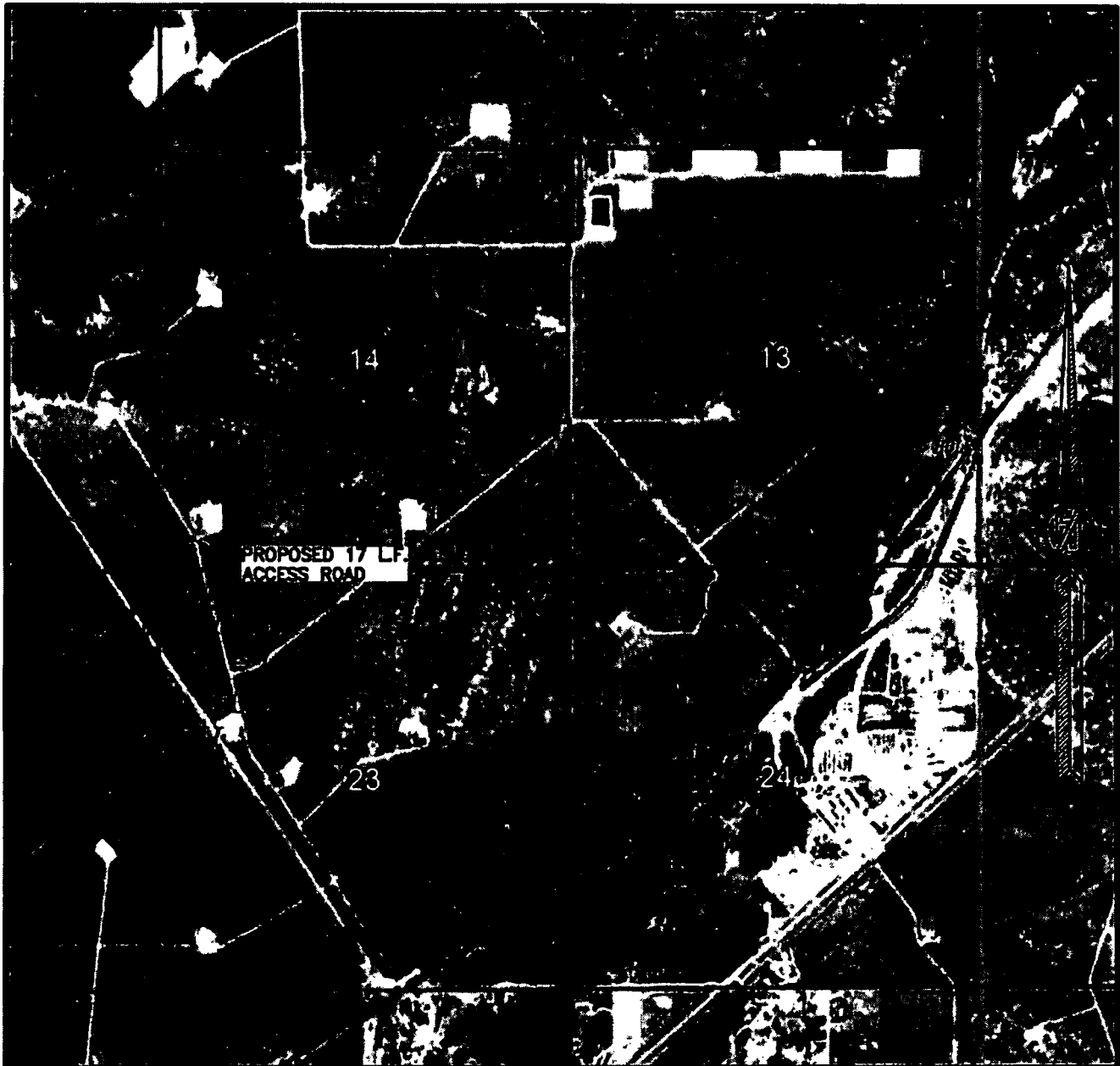
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**MADRON SURVEYING, INC.** 301 SOUTH CANAL  
(575) 234-3341 **CARLSBAD, NEW MEXICO**

301 SOUTH CANAL  
(575) 234-3341

**SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
AERIAL PHOTO**



**NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MAR. 2016**

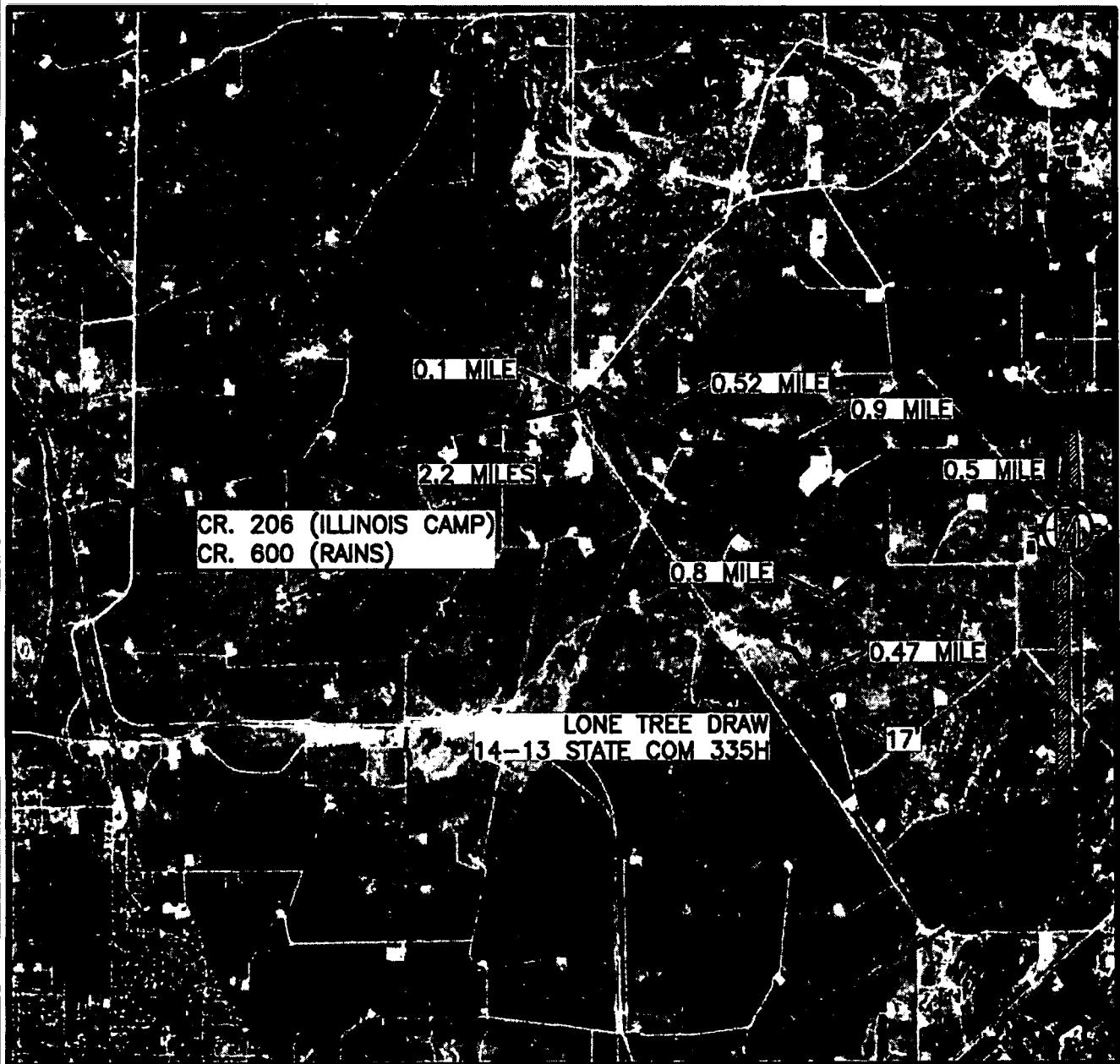
**DEVON ENERGY PRODUCTION COMPANY, L.P.  
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AND 195 FT. FROM THE WEST LINE OF  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO**

**DECEMBER 6, 2018**

**SURVEY NO. 6732**

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

SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
**AERIAL ACCESS ROUTE MAP**



NOT TO SCALE  
AERIAL PHOTO:  
GOOGLE EARTH  
MAR. 2016

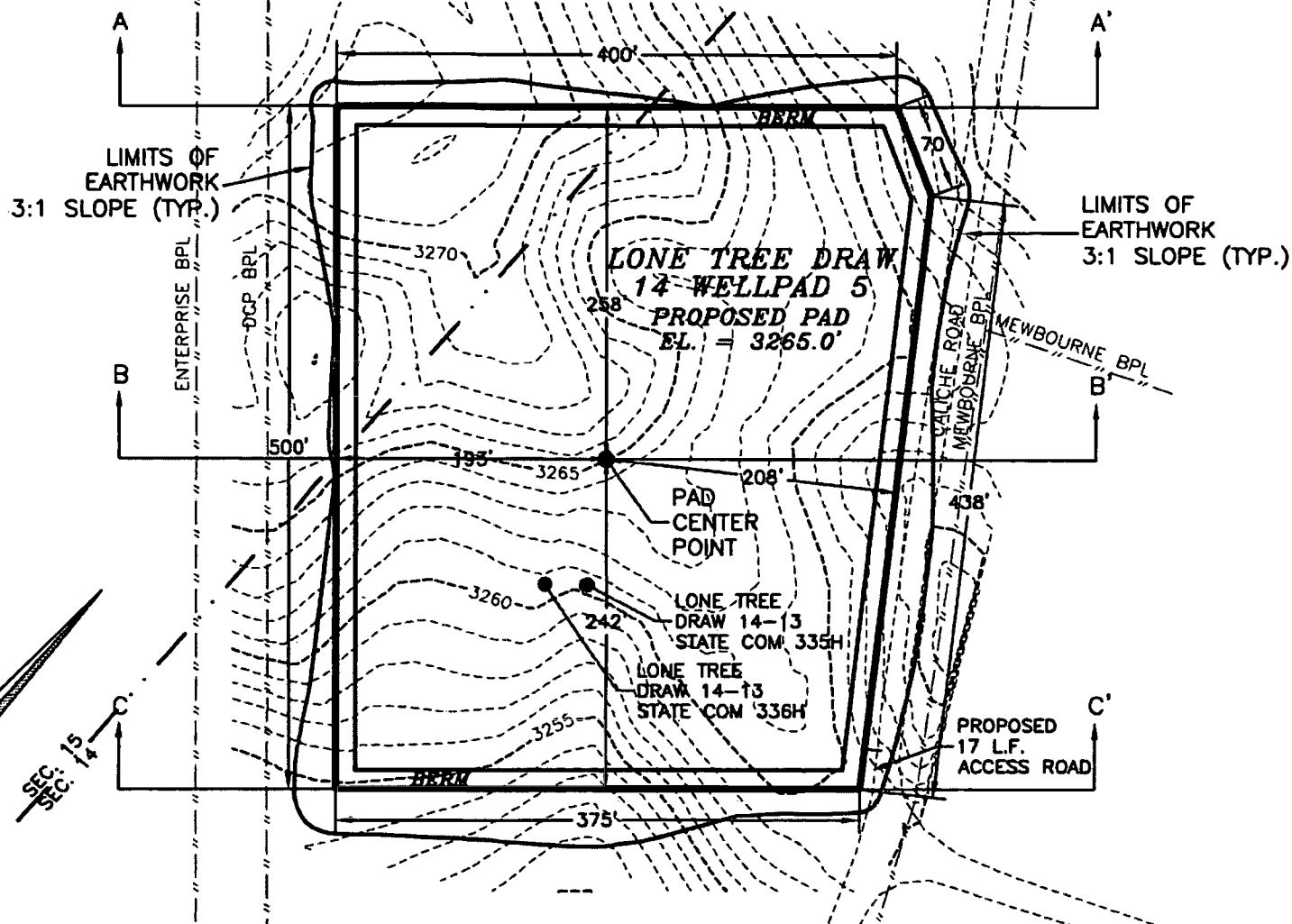
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EDDY COUNTY, STATE OF NEW MEXICO

DECEMBER 6, 2018

SURVEY NO. 6732

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

# PLAN VIEW



012 60 120 240  
SCALE 1" = 120'

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR LONE TREE DRAW 14-13 STATE COM 335H  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
7260 CU. YD	29489 CU. YD	22229 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

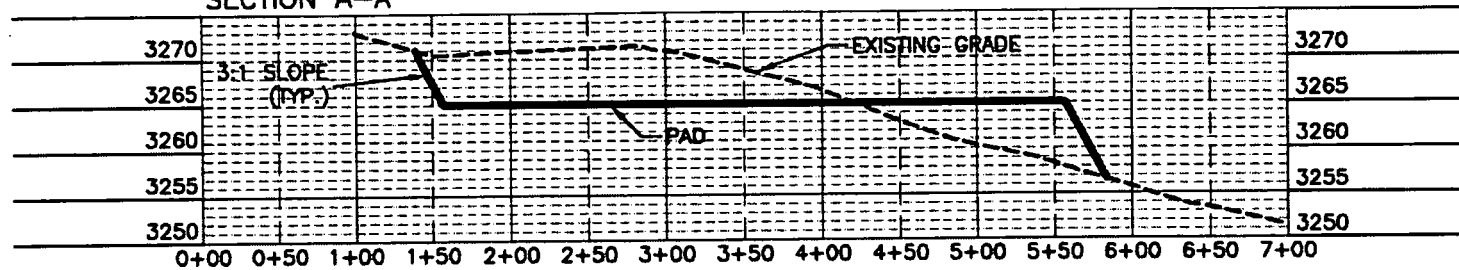
DECEMBER 6, 2018

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

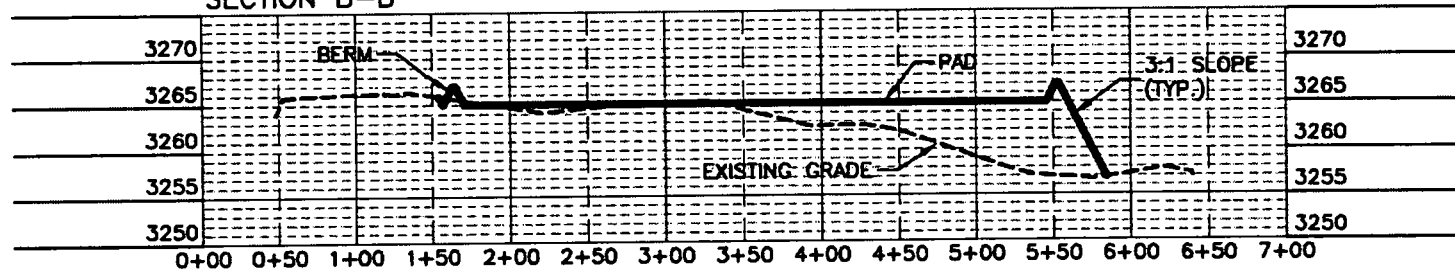
SHEET 1-2  
SURVEY NO. 6732

# CROSS-SECTIONS

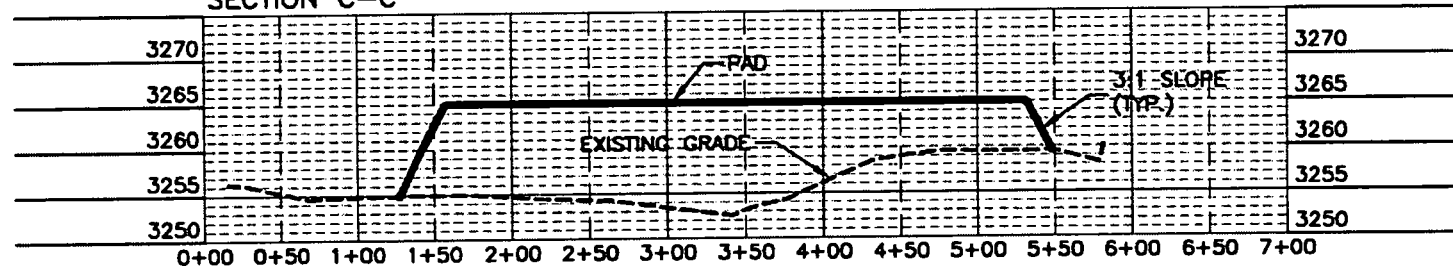
SECTION A-A'



SECTION B-B'



SECTION C-C'



012 60 120 240  
SCALE 1" = 120' - 1" = 20' VER

DEVON ENERGY PRODUCTION COMPANY, L.P.  
PAD GRADING AND CROSS SECTIONS  
FOR LONE TREE DRAW 14-13 STATE COM 335H  
SECTION 14, TOWNSHIP 21 SOUTH,  
RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

CUT	FILL	NET
7260 CU. YD	29489 CU. YD	22229 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

DECEMBER 6, 2018  
MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
(575) 234-3341

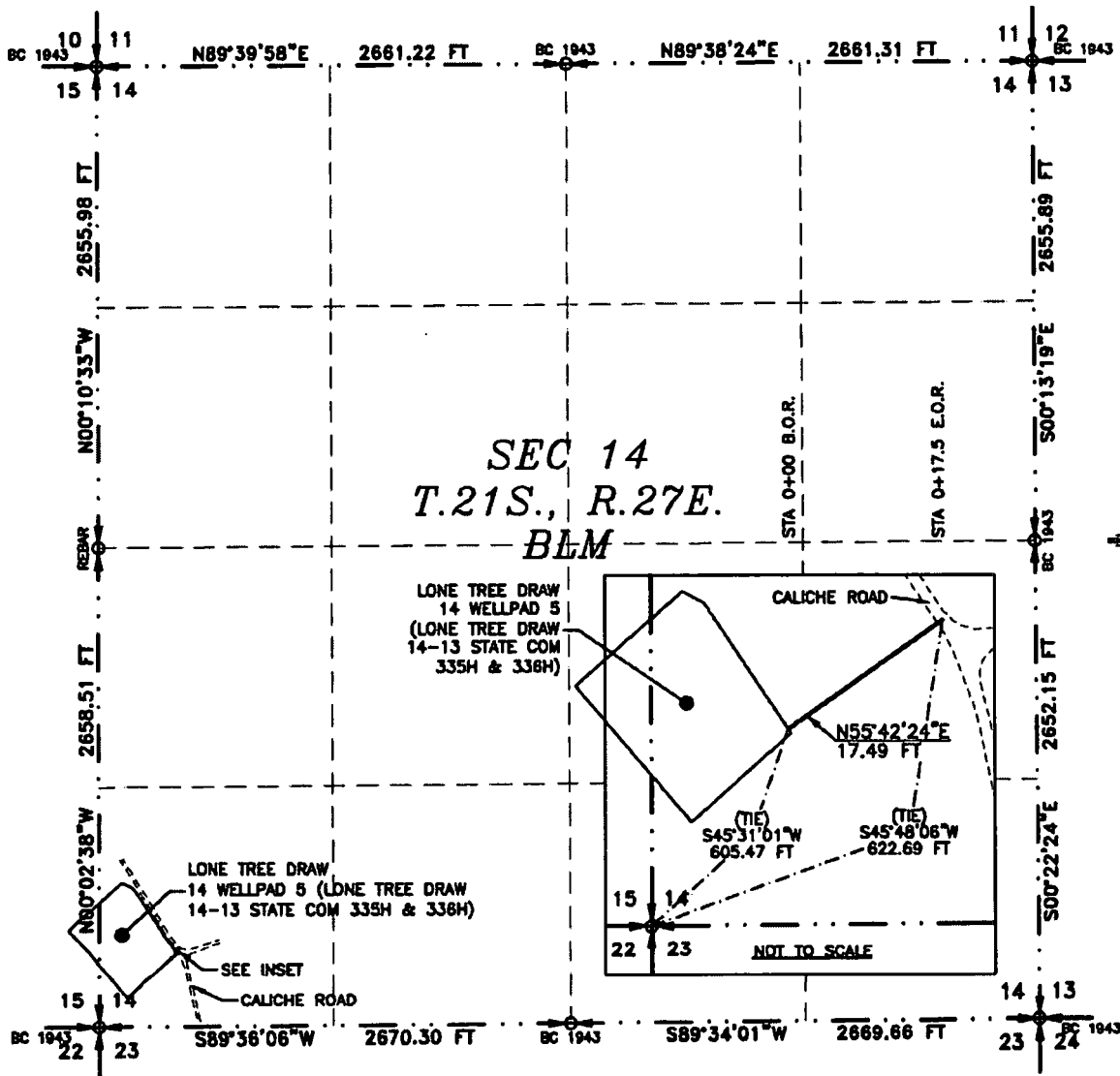
SHEET 2-2  
SURVEY NO. 6732



# ACCESS ROAD PLAT

ACCESS ROAD FOR LONE TREE DRAW 14 WELLPAD 6  
(LONE TREE DRAW 14-13 STATE COM 335H & 336H)

DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
DECEMBER 6, 2018



SEE NEXT SHEET (2-2) FOR DESCRIPTION

## 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.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 17 DAY OF DECEMBER 2018

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

## GENERAL NOTES

- 1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.
- 2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

SHEET: 1-2

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

SURVEY NO. 6732

**ACCESS ROAD PLAT**

**ACCESS ROAD FOR LONE TREE DRAW 14 WELLPAD 6  
(LONE TREE DRAW 14-13 STATE COM 335H & 336H)**

**DEVON ENERGY PRODUCTION COMPANY, L.P.  
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING  
SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
DECEMBER 6, 2018**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE SW/4 SW/4 OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M., WHENCE THE SOUTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S45°31'01"W, A DISTANCE OF 605.47 FEET;  
THENCE N55°42'24"E A DISTANCE OF 17.49 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHWEST CORNER OF SAID SECTION 14, TOWNSHIP 21 SOUTH, RANGE 27 EAST, N.M.P.M. BEARS S45°48'06"W, A DISTANCE OF 622.69 FEET;

SAID STRIP OF LAND BEING 17.49 FEET OR 1.06 RODS IN LENGTH, CONTAINING 0.012 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SW/4    17.49 L.F.    1.06 RODS    0.012 ACRES

**GENERAL NOTES**

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

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 2-2**

**MADRON SURVEYING, INC.**

**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.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,  
NEW MEXICO, THIS 17 DAY OF DECEMBER, 2018

*[Signature]*  
FILIMON F. JARAMILLO, P.E.S. 12797  
REGISTERED PROFESSIONAL SURVEYOR

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

**SURVEY NO. 6732**

**CARLSBAD, NEW MEXICO**