NSL

Initial

Application

Received: 07/08/2020

Closed: Duplicate of NSL-8044

Signature

Revised March 23, 2017

	RECEIVED: 07/08/2020	REVIEWER: KMS	TYPE: NSL	APP NO: pKS2019628890	NSL-8048							
3	ARONE THIS CARLE COR COOD DIVISION LISE ONLY											



	OIL CONSERVATION DIVISION
•	& Engineering Bureau – cis Drive, Santa Fe, NM 87505
1220 300 III 31. FIGH	Els Dilve, Sairia Fe, NW 87303
	IVE APPLICATION CHECKLIST
	DMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND RE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applicant: Devon Energy Production, L.P.	OGRID Number: 6137
Well Name: Thoroughbred 10-3 Fed Com #734H Well	API: 30-015-46907
Purple Sage; Wolfcamp (Gas) Pool	Pool Code: 98220
	RMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION NDICATED BELOW
1) TYPE OF APPLICATION: Check those wh A. Location – Spacing Unit – Simultan NSP (PROJECT	eous Dedication
B. Check one only for [1] or [11] [1] Commingling – Storage – Mea: DHC CTB PLC [11] Injection – Disposal – Pressure WFX PMX SWD	□ PC □ OLS □ OLM Increase – Enhanced Oil Recovery
2) NOTIFICATION REQUIRED TO: Check that A. Offset operators or lease holder B. Royalty, overriding royalty owners. Application requires published D. Notification and/or concurrent E. Notification and/or concurrent F. Surface owner G. For all of the above, proof of noting the proof of the concurrent P. No notice required	se which apply. Sers, revenue owners notice approval by SLO Notice Complete Application Content Complete
3) CERTIFICATION: I hereby certify that the administrative approval is accurate and	information submitted with this application for a complete to the best of my knowledge. I also on this application until the required information and on.
Note: Statement must be completed	by an individual with managerial and/or supervisory capacity.
	July 8, 2020
Kaitlyn A. Luck	Date
Print or Type Name	
тип оттуре натте	505-954-7286
Souther l	Phone Number

kaluck@hollandhart.com

e-mail Address



Kaitlyn A. Luck Phone (505) 954-7286 KALuck@hollandhart.com

July 8, 2020

VIA ONLINE FILING

Adrienne Sandoval, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources 1220 South Saint Francis Drive Santa Fe, New Mexico 87505

Re: Application of Devon Energy Production, LP, for administrative approval of an unorthodox well location for its Thoroughbred 10-3 Fed Com #734H Well in the E/2 E/2 of Sections 3 and 10, Township 26 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.

Dear Ms. Sandoval:

Devon Energy Production, LP ("Devon") (OGRID No. 6137) seeks administrative approval of an unorthodox well location for its **Thoroughbred 10-3 Fed Com #734H Well** (API No. 30-015-46907) to be completed within the Purple Sage Wolfcamp Pool (98220) underlying the E/2 E/2 of Sections 3 and 10, Township 26 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.

This well will be drilled from a <u>surface location</u> 200 feet from the south line and 1380 feet from the east line (Unit O) of Section 10 to a <u>bottom hole location</u> 20 feet from the north line and 330 feet from the east line (Unit A) of Section 3. The <u>first take point</u> will be located 330 feet from the south line and 330 feet from the east line (Unit O) of Section 10, and the <u>last take point</u> will be 100 feet from the north line and 330 feet from the east line (Unit A) of Section 3.

Pursuant to Division Order R-14262, this acreage is governed by the Special Rules for the Purple Sage-Wolfcamp Gas Pool which provide for wells in the Wolfcamp formation in Eddy County to be located no closer than 330 feet to the outer boundary of the spacing unit. The completed interval for the **Thoroughbred 10-3 Fed Com #734H Well** will be unorthodox because it is closer than 330 feet to the northern boundary of the spacing unit in Section 3. Approval of the unorthodox completed interval will allow Devon to use its preferred well spacing plan for horizontal wells in this area and thereby prevent waste.

Exhibit A is a Well Location and Acreage Dedication Plat (Form C-102), which shows that the completed interval of the proposed **Thoroughbred 10-3 Fed Com #734H Well** encroaches on the drilling and spacing unit to the north in Section 34, Township 25 South, Range 31 East.

Exhibit B is a land plat for Sections 3 and 10 that shows the proposed Thoroughbred 10-3 Fed Com #734H Well in relation to the adjoining spacing unit to the north in Section 34, Township 25 South, Range 31 East.

Ownership is diverse between the subject spacing unit and the spacing unit to the north. **Exhibit C** reflects that a copy of this application with all attachments has been sent by certified mail to each affected person advising that any objections must be filed in writing with the Division within 20 days from the date the Division receives the application.

Exhibit D is a statement from a Devon's petroleum engineer confirming that Devon's requested unorthodox location is necessary to optimize well spacing, thereby preventing waste.

Your attention to this matter is appreciated.

Sincerely,

Kaitlyn A. Luck

ATTORNEY FOR DEVON ENERGY PRODUCTION COMPANY, L.P.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

12 Dedicated Acres

26 S

13 Joint or Infill

31 E

14 Consolidation Code

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

EDDY

WELL LOCATION AND ACREAGE DEDICATION PLAT

	API Number	r		Pool Code			Pool Na	me					
⁴ Property 0	Code	⁵ Property Name											
	THOROUGHBRED 10-3 FED COM 734H												
'OGRID	No.				8 Operator	Name			9 Elevation				
6137		DEVON ENERGY PRODUCTION COMPANY, L.P. 3224.7											
					" Surfac	e Location							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County			
0	O 10 26 S 31 E 200 SOUTH 1380 EA												
" Bottom Hole Location If Different From Surface													
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County			

NORTH

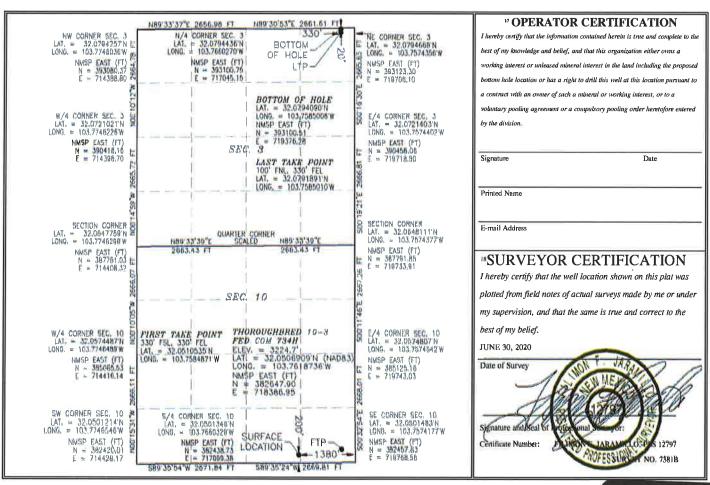
330

15 Order No.

EAST

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

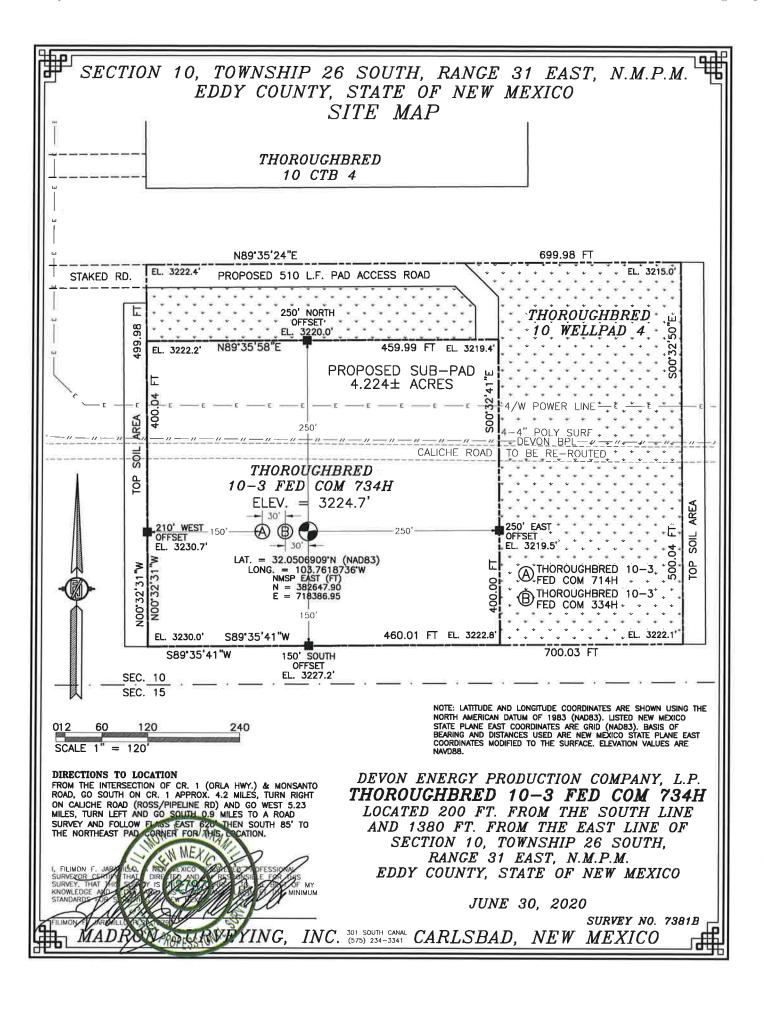
20





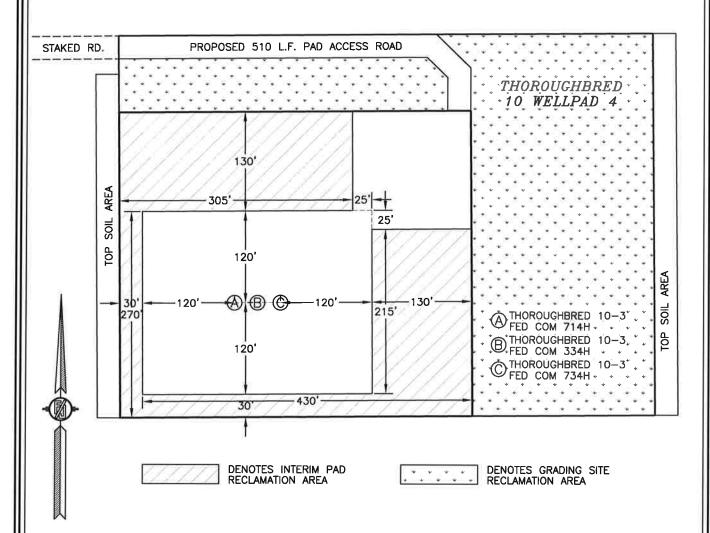
	19				
ntent As Drilled					
API#					
Operator Name: Property Name:	Well Numbe				
DEVON ENERGY PRODUCTION THOROUGHBRED 10-3 FED COM	734H				
COMPANY, L.P.					
(ick Off Point (KOP)					
UL Section Township Range Lot Feet From N/S Feet From E/W County					
Latitude Longitude NAD					
Longitude					
irst Take Point (FTP)					
UL Section Township Range Lot Feet From N/S Feet From E/W County					
P 10 26S 31E 330 SOUTH 330 EAST EDDY					
Latitude Longitude NAD					
32.0510535 103.7584871 83					
UL Section Township Range Lot Feet From N/S Feet From E/W County A 3 26S 31E 100 NORTH 330 EAST EDDY					
Latitude Longitude NAD S3.0791891 103.7585010 83					
100.700010					
abia wallaha dafiala wallifaraha Uata da 18 a					
this well the defining well for the Horizontal Spacing Unit?					
this wall an infill wall?					
this well an infill well?					
this well an infill well?					
	or Horizontal				
infill is yes please provide API if available, Operator Name and well number for Defining well t	or Horizontal				
infill is yes please provide API if available, Operator Name and well number for Defining well f	for Horizontal				
infill is yes please provide API if available, Operator Name and well number for Defining well f	or Horizontal				
f infill is yes please provide API if available, Operator Name and well number for Defining well f pacing Unit. API # Operator Name:					
f infill is yes please provide API if available, Operator Name and well number for Defining well f pacing Unit.	For Horizontal Well Number				
infill is yes please provide API if available, Operator Name and well number for Defining well f pacing Unit.					

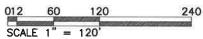
KZ 06/29/2018





THOROUGHBRED 10 CTB 4





2.036± ACRES INTERIM PAD RECLAMATION AREA
3.460± ACRES GRADING SITE RECLAMATION AREA
2.539± ACRES NON-RECLAIMED AREA
8.035± ACRES THOROUGHBRED 10 WELLPAD 4

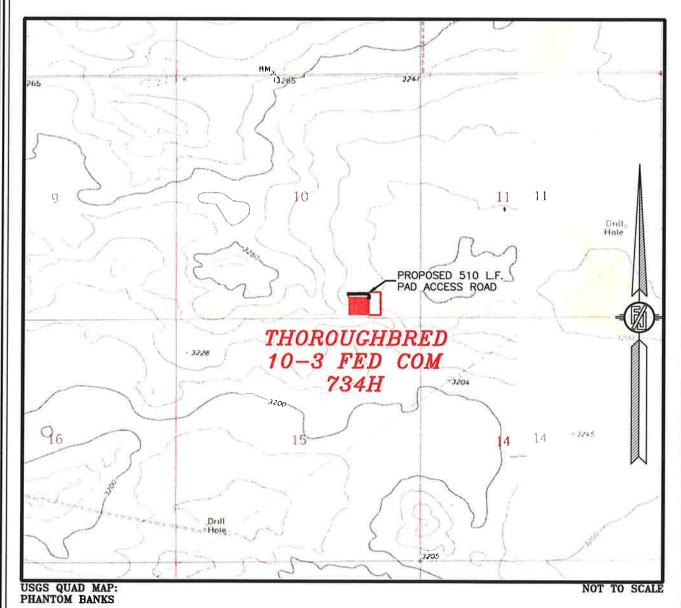
DEVON ENERGY PRODUCTION COMPANY, L.P.
THOROUGHBRED 10-3 FED COM 734H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 1380 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 30, 2020

SURVEY NO. 7381B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



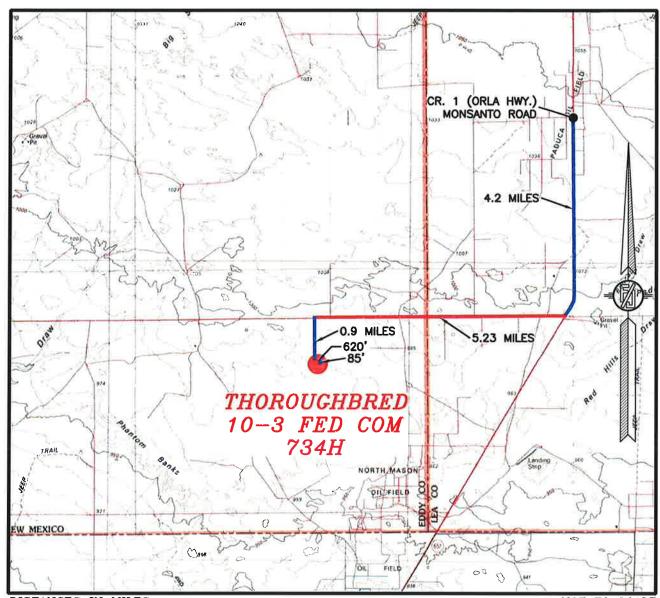
DEVON ENERGY PRODUCTION COMPANY, L.P.
THOROUGHBRED 10-3 FED COM 734H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 1380 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 30, 2020

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF CR. 1 (ORLA HWY.) & MONSANTO ROAD, GO SOUTH ON CR. 1 APPROX. 4.2 MILES, TURN RIGHT ON CALICHE ROAD (ROSS/PIPELINE RD) AND GO WEST 5.23 MILES, TURN LEFT AND GO SOUTH 0.9 MILES TO A ROAD SURVEY AND FOLLOW FLAGS EAST 620' THEN SOUTH 85' TO THE NORTHEAST PAD CORNER FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.
THOROUGHBRED 10-3 FED COM 734H
LOCATED 200 FT. FROM THE SOUTH LINE
AND 1380 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 30, 2020

SURVEY NO. 7381B

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. LEDDY COUNTY, STATE OF NEW MEXICO AERIAL PHOTO



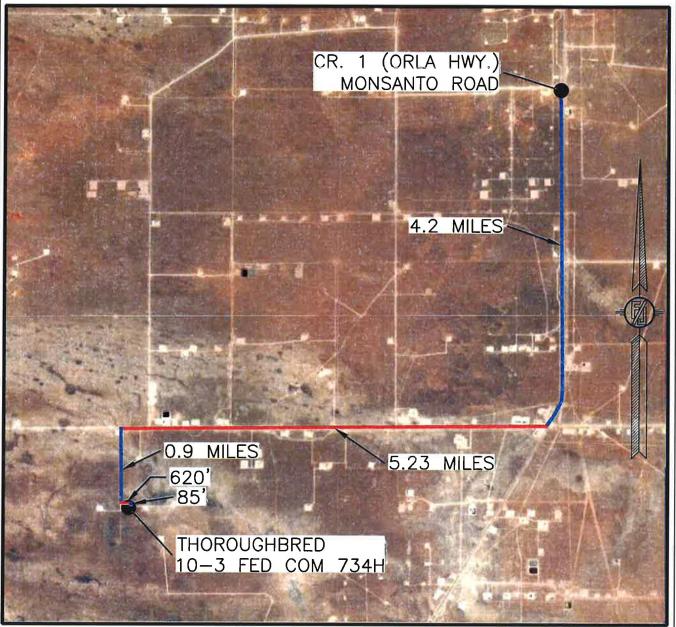
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2019

DEVON ENERGY PRODUCTION COMPANY, L.P.
THOROUGHBRED 10-3 FED COM 734H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 1380 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 30, 2020

SURVEY NO. 7381B MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
AERIAL ACCESS ROUTE MAP



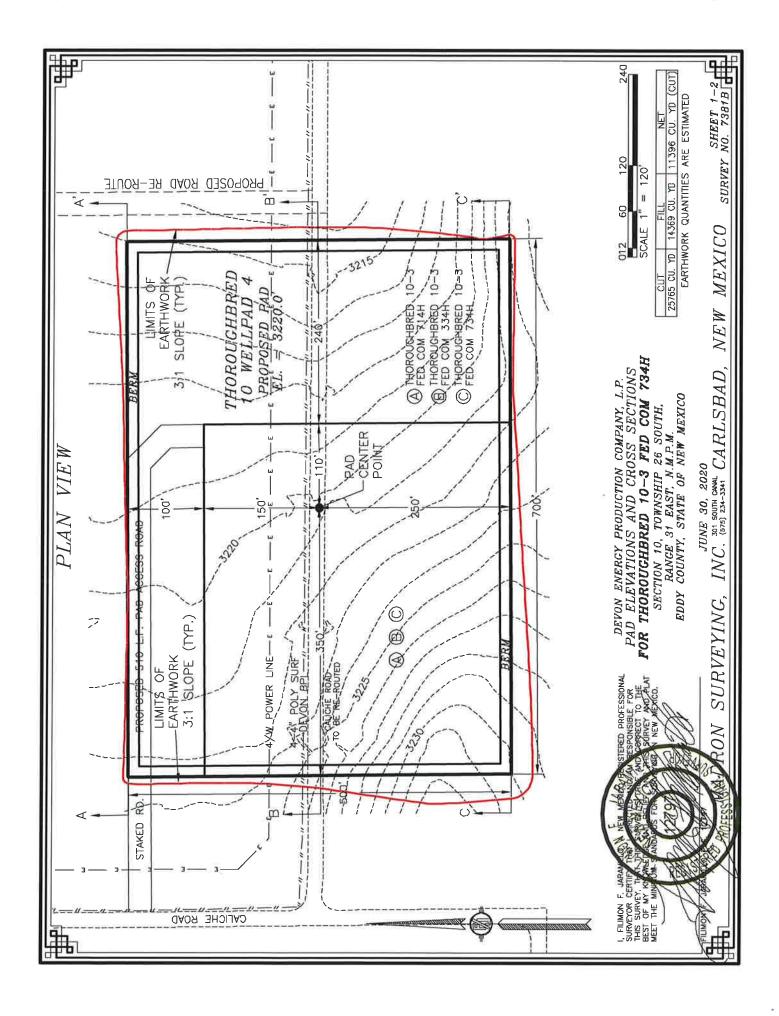
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH FEB. 2019

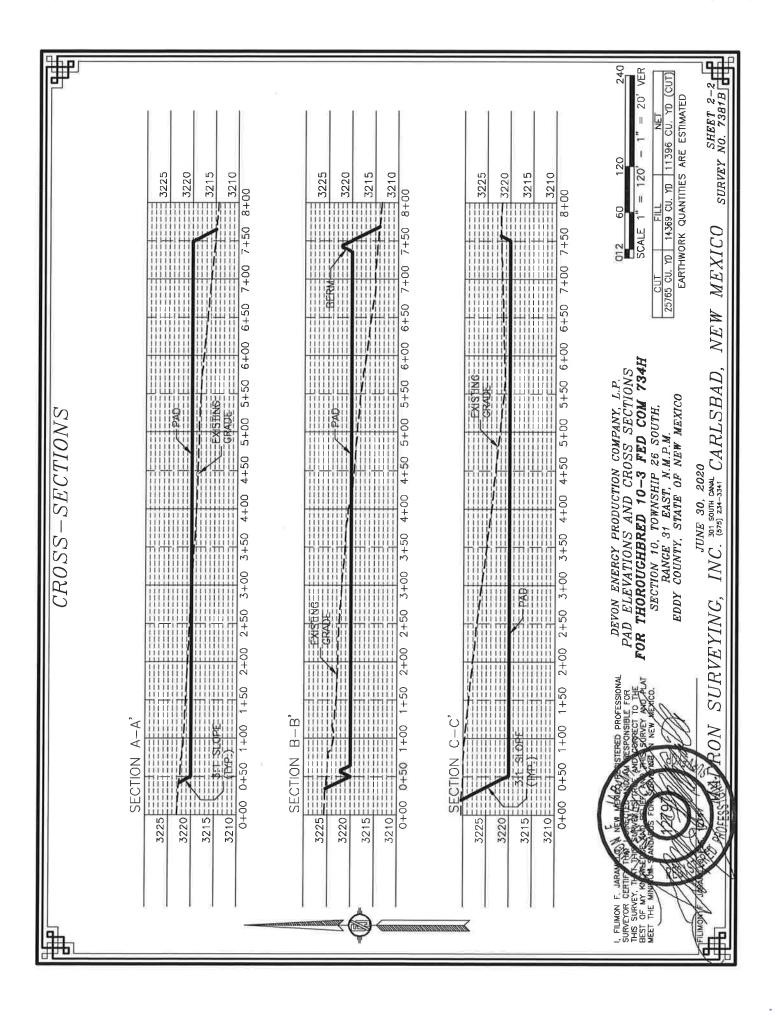
DEVON ENERGY PRODUCTION COMPANY, L.P.
THOROUGHBRED 10-3 FED COM 734H

LOCATED 200 FT. FROM THE SOUTH LINE
AND 1380 FT. FROM THE EAST LINE OF
SECTION 10, TOWNSHIP 26 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 30, 2020

SURVEY NO. 7381B MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO

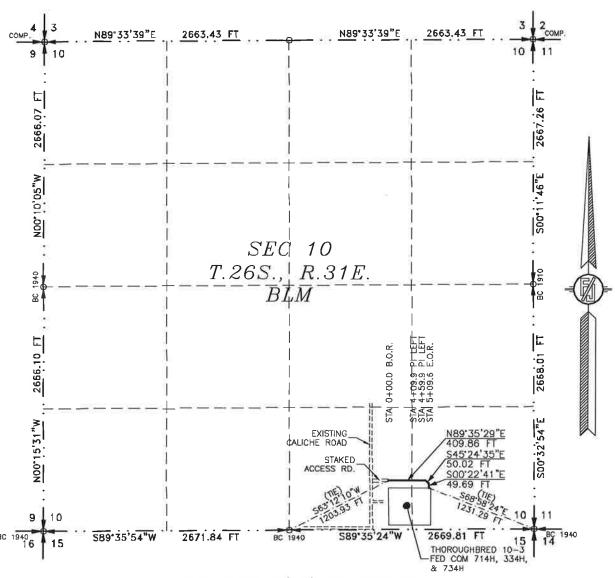




ACCESS ROAD PLAT

PAD ACCESS ROAD FOR THOROUGHBRED 10-3 FED COM 714H, 334H, & 734H

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO JUNE 30, 2020



SEE NEXT SHEET (2-2) FOR DESCRIPTION



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. (575)

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 NEW MEXICO.

CERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 7381B

NEW MEXICO

ACCESS ROAD PLAT

PAD ACCESS ROAD FOR THOROUGHBRED 10-3 FED COM 714H, 334H, & 734H

DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 30, 2020

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 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 SE/4 OF SAID SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$63'12'10"W, A DISTANCE OF 1203.93 FEET;
THENCE N89'35'29"E A DISTANCE OF 409.86 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE \$45'24'35"E A DISTANCE OF 50.02 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE \$00'22'41"E A DISTANCE OF 49.69 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 10, TOWNSHIP 26 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS \$68'58'24"E, A DISTANCE OF 1231.29 FEET;

SAID STRIP OF LAND BEING 509.57 FEET OR 30.88 RODS IN LENGTH, CONTAINING 0.351 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4

257.08 L.F.

15.58 RODS

0.177 ACRES

SE/4 SE/4 2

252.49 L.F.

15.30 RODS

0.174 ACRES

SURVEYOR CERTIFICATE

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. 301 SOL

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 DESCRIPTION OF NEW MEXICO.

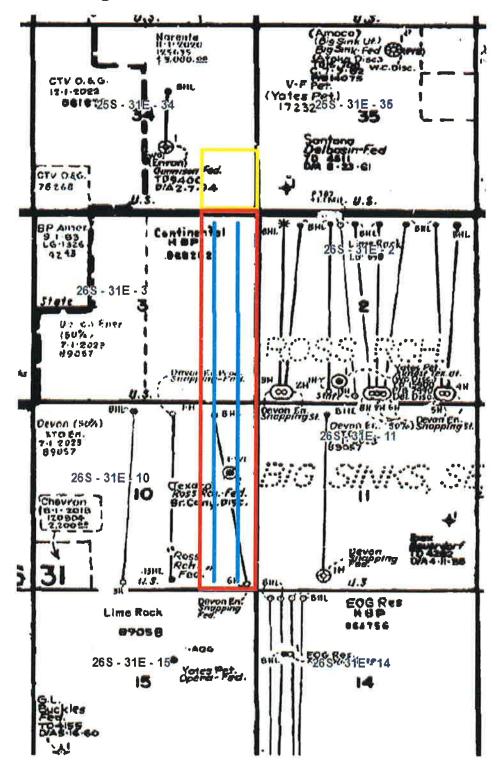
CERTIFICATE IS EXECUTED AT CARLSBAD,

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

SURVEY NO. 7381B

AD, NEW MEXICO

Affected Tract Map
Thoroughbred 10-3 Fed Com #714H & #734H wells







Kaitlyn A. Luck Phone (505) 954-7286 KALuck@hollandhart.com

July 8, 2020

<u>VIA CERTIFIED MAIL</u> RETURN RECEIPT REQUESTED

TO AFFECTED PARTIES:

Re: Application of Devon Energy Production, LP, for administrative approval of an unorthodox well location for its Thoroughbred 10-3 Fed Com #734H Well in the E/2 E/2 of Sections 3 and 10, Township 26 South, Range 31 East, N.M.P.M., Eddy County, New Mexico.

Ladies and Gentlemen:

Enclosed is a copy of the above-referenced application which was filed with the New Mexico Oil Conservation Division on this date. Any objection to this application must be filed in writing within twenty days from this date with the applicant and the New Mexico Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505. If no objection is received within this twenty-day period, this application may be approved administratively by the Division.

If you have any questions about this application, please contact the following:

Tim Prout
Devon Energy
(405) 552-6113
Tim.Prout@dvn.com

Sincerely,

Kaitlyn A. Luck

ATTORNEY FOR DEVON ENERGY PRODUCTION

COMPANY, L.P.





Shipment Confirmation Acceptance Notice

Note to Mailer: The labels and volume associated to this form online, must match the labeled packages being presented to the USPS® employee with this form.

Shipment Date: 07/08/2020

Shipped From:

Name: HOLLAND & HART LLP (1)

Address: __110 N GUADALUPE ST # 1

City: SANTA FE

ZIP+4® 87501 State: NM

Devon - Thoroughbred 734 NSL (BLM) CM# 41132.0002

Volume
0
1
1

^{*}Start time for products with service guarantees will begin when mail arrives at the local Post Office™ and items receive individual processing and acceptance scans.

B. USPS Action

- Note to RSS Clerk:
 1. Home screen > Mailing/Shipping > More
 2. Select Shipment Confirm
 3. Scan or enter the barcode/label number from PS Form 5630
 4. Confirm the volume count message by selecting Yes or No
 5. Select Pay and End Visit to complete transaction

USPS EMPLOYEE: Please scan upon pickup or receipt of mail. Leave form with customer or in customer's mail receptacle.

USPS SCAN AT ACCEPTANCE

9275 0901 1935 6200 0022 8494 19

UNITED STATES
POSTAL SERVICE®

Firm Mailing Book For Accountable Mail		ed Due ASR ASRD RD RR SC SCRD SH Je Sender if Fee Fee Fee Fee Fee Fee Fee Fee	1.70			f.i	ΛΘΙ.		Vil	eQ uo	Var Ste	evi ipt m	e Ferrind	911 11	e Fa	ni ni nu	ist est est	65 65 65	5 3			6is						Privacy Notice: For more information on USPS privacy policies visit usos com/privacypolicy
	Affix Stamp Here (if issued as an international certificate of mailing or for additional copies of this receipt). Postmark with Date of Receipt.	Handling Actual Value Insured Charge if Registered Value		ən	[SV	ui	000	0.0	65	\ell	(6)	pu	ol en	Ð	ietei	sig	iey	.11	-14	eß.	IEU	0	бu	illa	ue			ore information on U
	Affix Stamp Here (if issued as an international certificate of mailing or for additional copies of this receipt). Postmark with Date of Receip	Postage (Extra Ha Service) Ct Fee	0.95 3.55																									v Notice: For my
	Check type of mail or service Adult Signature Required Priority Mail Express Adult Signature Restricted Delivery Registered Mail Certified Mail Restricted Delivery Merchandise Collect on Delivery (COD) Signature Confirmation Insured Mail Restricted Delivery Registered Mail Priority Mail Restricted Delivery Priority Mail Restricted Delivery Priority Mail Restricted Delivery Adult Signature Confirmation Restricted Delivery Registered Delivery Adult Signature Confirmation Restricted Delivery Registered Delivery Adult Signature Reservices Adult Signature Respirate Adult Signature Re	ree (Name, Street, City, State, & ZIP Code TM)	Bureau of Land Management 301 Dinosaur Trail Santa Fe NM 87508																								Postmaster, Per (Name of receiving employee)	Complete in lnk
POSTAL SERVICE®	Name and Address of Sender Holland & Hart LLP (1) 110 N Guadalupe St # 1 Santa Fe NM 87501	USPS Tracking/Article Number	1. 9214 8901 9403 8315 8988 99			40																	1				Total Number of Pieces Total Number of Pieces Listed by Sender Received at Post Office	DS Form 3877 April 2015 (Dags 1 of 1)



Devon Energy Production Company. L.P. 333 West Sheridan Avenue Oklahoma City, OK 73102

July 6, 2020

Mr. Leonard Lowe New Mexico Oil Conservation Division 1220 South Francis Drive Santa Fe, New Mexico 87505

RE:

Application for Nonstandard Locations

Engineering Statement

Devon Energy Production Company, L.P.

Thoroughbred 10-3 Fed Com 621H, 623H, 711H, 713H, 714H, 733H, 732H & 734H wells

Sections 10 & 3-26S-31E Eddy County, New Mexico

Dear Mr. Lowe:

Devon Energy Production Company, L.P. respectfully requests administrative approval of a non-standard location for each of the Thoroughbred wells referenced above by decreasing the last take point(s) from 330 feet to 100 feet from the horizontal plane outer boundary. The wells are located in the Purple Sage-Wolfcamp Gas Pool (Pool Code 98220). It is Devon's responsibility as a prudent operator to maximize lateral length and to minimize reserves left in the ground. Decreasing the last take point will increase the wells effective lateral length by 230 feet thereby increasing ultimate recovery of reserves and preventing waste of natural resources.

Sincerely,

Paige Bowes

Reservoir Engineer

Paige Bower

