

Well Name: COTTON DRAW UNIT	Well Location: T24S / R31E / SEC 26 / NENW / 32.1945399 / -103.7488704	County or Parish/State: EDDY / NM
Well Number: 606H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0012121, NMNM012121	Unit or CA Name: COTTON DRAW UNIT	Unit or CA Number: NMNM70928X
US Well Number: 3001547296	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

NMOCD - Accepted for record - JAG

Notice of Intent

Sundry ID: 2505702

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/29/2021

Date proposed operation will begin: 06/28/2021

Type of Action: Other

Time Sundry Submitted: 09:13

Procedure Description: COTTON DRAW UNIT 606H Devon Energy Production Co., L.P. (Devon) respectfully requests to move the BHL on the subject well. Please see attached revised C102, Drill plan, directional plan. • Permitted BHL: (F) 35-24S-31E, 2620 FNL, 2300 FWL • Proposed BHL: (N) 2-25S-31E, 20 FSL, 2300 FWL

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- WA017963207_COTTON_DRAW_UNIT_606H_WL_R2_20210629091140.pdf
- COTTON_DRAW_UNIT_606H_Directional_Plan_06_24_21_20210629091136.pdf
- COTTON_DRAW_UNIT_606H_20210629091136.pdf

Received by OCD: 9/14/2021 10:03:50 AM

Page 2 of 26

Well Name: COTTON DRAW UNIT	Well Location: T24S / R31E / SEC 26 / NENW / 32.1945399 / -103.7488704	County or Parish/State: EDDY / NM
Well Number: 606H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM0012121, NMNM012121	Unit or CA Name: COTTON DRAW UNIT	Unit or CA Number: NMNM70928X
US Well Number: 3001547296	Well Status: Approved Application for Permit to Drill	Operator: DEVON ENERGY PRODUCTION COMPANY LP

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: JENNY HARMS	Signed on: JUN 29, 2021 09:12 AM
Name: DEVON ENERGY PRODUCTION COMPANY LP	
Title: Regulatory Compliance Professional	
Street Address: 333 West Sheridan Avenue	
City: Oklahoma City	State: OK
Phone: (405) 552-6560	
Email address: jennifer.harms@dvn.com	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 09/03/2021
Signature: Chris Walls	

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: (505) 748-1283 Fax: (505) 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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47296	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 300635	⁵ Property Name COTTON DRAW UNIT	
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁶ Well Number 606H ⁹ Elevation 3539.9

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	26	24 S	31 E		385	NORTH	2560	WEST	EDDY

¹¹ 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/West line	County
N	2	25 S	31 E		20	SOUTH	2300	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
960			

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.

17 OPERATOR CERTIFICATION	
<i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>	
Denny Harms	6-24-2021
Signature _____	Date _____
JENNY HARMS	
Printed Name _____	
JENNY.HARMS@DVN.COM	
E-mail Address _____	
18 SURVEYOR CERTIFICATION	
<i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
JUNE 16, 2021	
Date of Survey _____	
Signature and Seal of Professional Surveyor: _____ 	
Certificate Number: _____	

Intent ☒ As Drilled ☐

API #		
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.	Property Name: COTTON DRAW UNIT	Well Number 606H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	26	24S	31E		48 FNL		2281 FWL		EDDY
Latitude 32.19537226					Longitude -103.74984015				NAD 83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
C	26	24S	31E		100	NORTH	2300	WEST	EDDY
Latitude 32.1953230					Longitude 103.7496955				NAD 83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
N	2	25S	31E		100	SOUTH	2300	WEST	EDDY
Latitude 32.1524349					Longitude 103.7497870				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☐ NOIs this well an infill well? ☐ YES

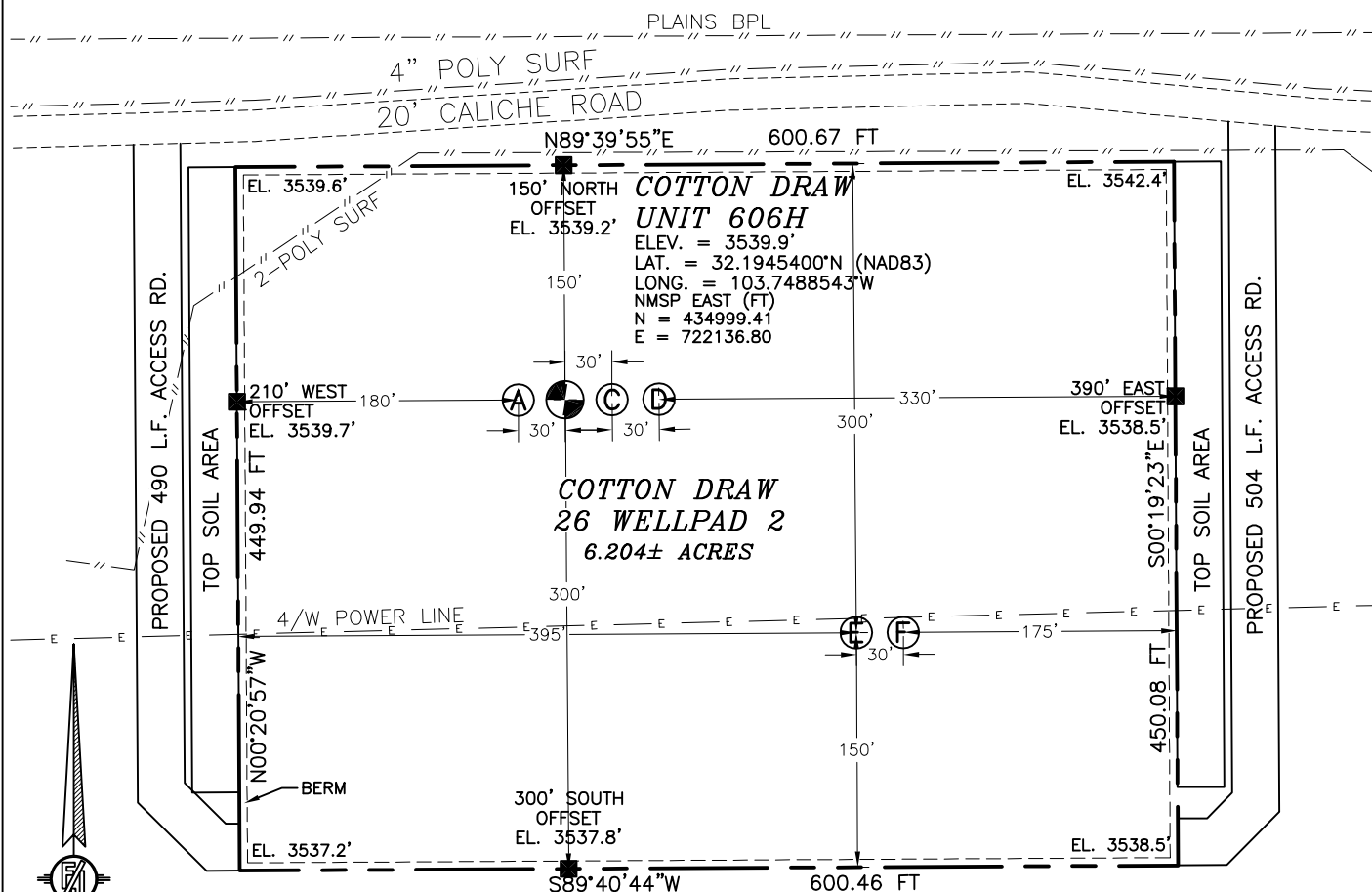
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83). LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. ELEVATION VALUES ARE NAVD88.



- | | |
|---------------------------|---------------------------|
| (A) COTTON DRAW UNIT 605H | (D) COTTON DRAW UNIT 608H |
| (B) COTTON DRAW UNIT 606H | (E) COTTON DRAW UNIT 523H |
| (C) COTTON DRAW UNIT 607H | (F) COTTON DRAW UNIT 524H |

012 60 120 240

SCALE 1" = 120'

DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 128 AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD APPROXIMATELY 3.1 MILES TO LEASE ROAD ON LEFT. TURN LEFT (EAST). GO EAST PAST TANK BATTERY AND FRAC POND APPROX. 0.3 MILES. ROAD TURNS RIGHT (SOUTHEAST). GO 1.0 MILES, ROAD TURNS RIGHT. GO 0.1 MILES. ROAD TURNS LEFT. GO SOUTHWEST 0.3 MILES TO WELLPAD ON LEFT (SOUTHWEST ROAD) FOR THIS LOCATION.

I, FILIMON F. JARAMILLO, A NEW MEXICO LICENSED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILIMON F. JARAMILLO 15727

MADRON PROFESSIONAL SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

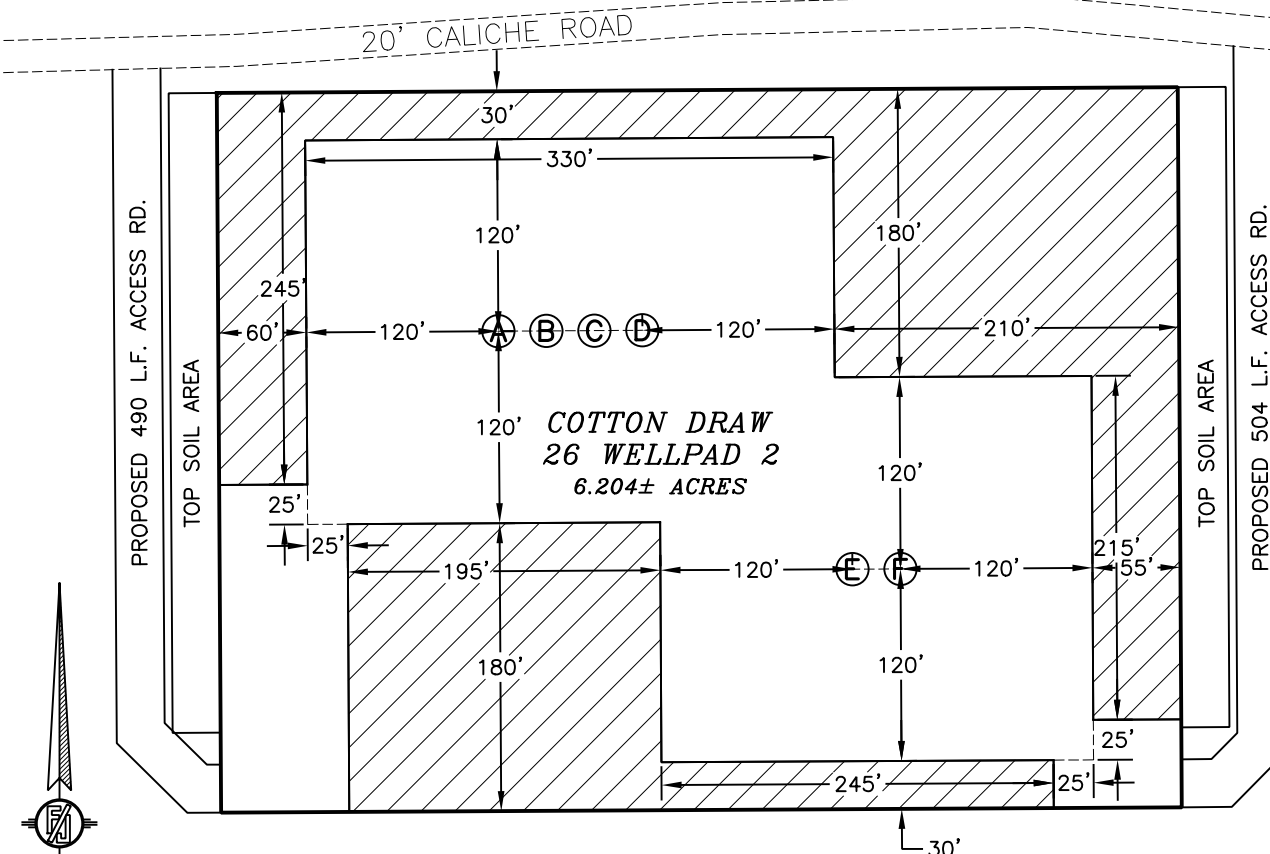
DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 606H
LOCATED 385 FT. FROM THE NORTH LINE
AND 2560 FT. FROM THE WEST LINE OF
SECTION 26, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2021

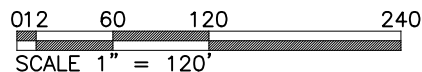
SURVEY NO. 8007B

CARLSBAD, NEW MEXICO

 DENOTES RECLAMATION AREA
2.675± ACRES RECLAMATION AREA



- (A) COTTON DRAW UNIT 605H (D) COTTON DRAW UNIT 608H
 (B) COTTON DRAW UNIT 606H (E) COTTON DRAW UNIT 523H
 (C) COTTON DRAW UNIT 607H (F) COTTON DRAW UNIT 524H



DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 606H
LOCATED 385 FT. FROM THE NORTH LINE
AND 2560 FT. FROM THE WEST LINE OF
SECTION 26, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

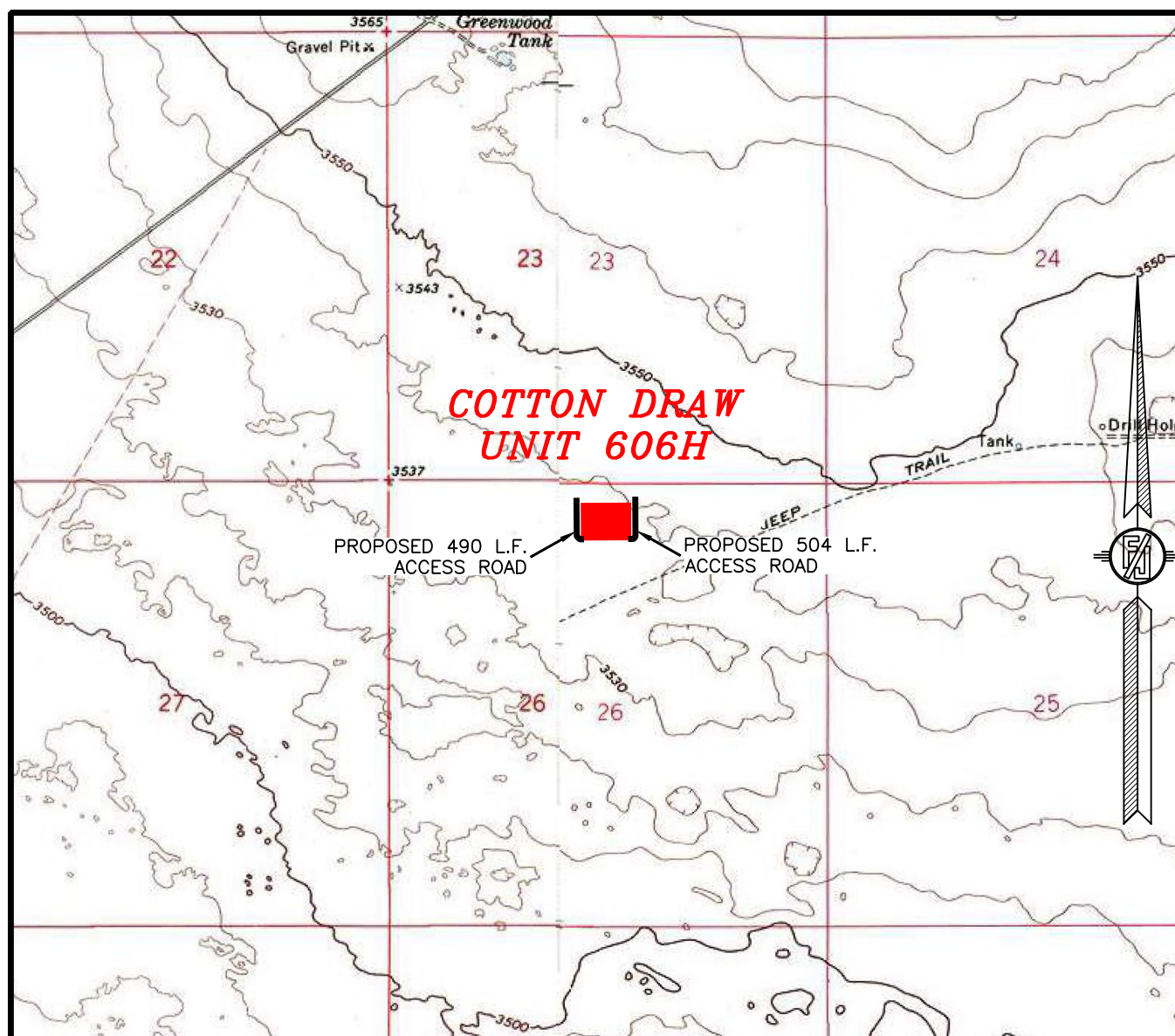
JUNE 16, 2021

SURVEY NO. 8007B

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

CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 LOCATION VERIFICATION MAP



USGS QUAD MAP:
 PADUCA BREAKS NW
 BIG SINKS

NOT TO SCALE

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 606H
 LOCATED 385 FT. FROM THE NORTH LINE
 AND 2560 FT. FROM THE WEST LINE OF
 SECTION 26, TOWNSHIP 24 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

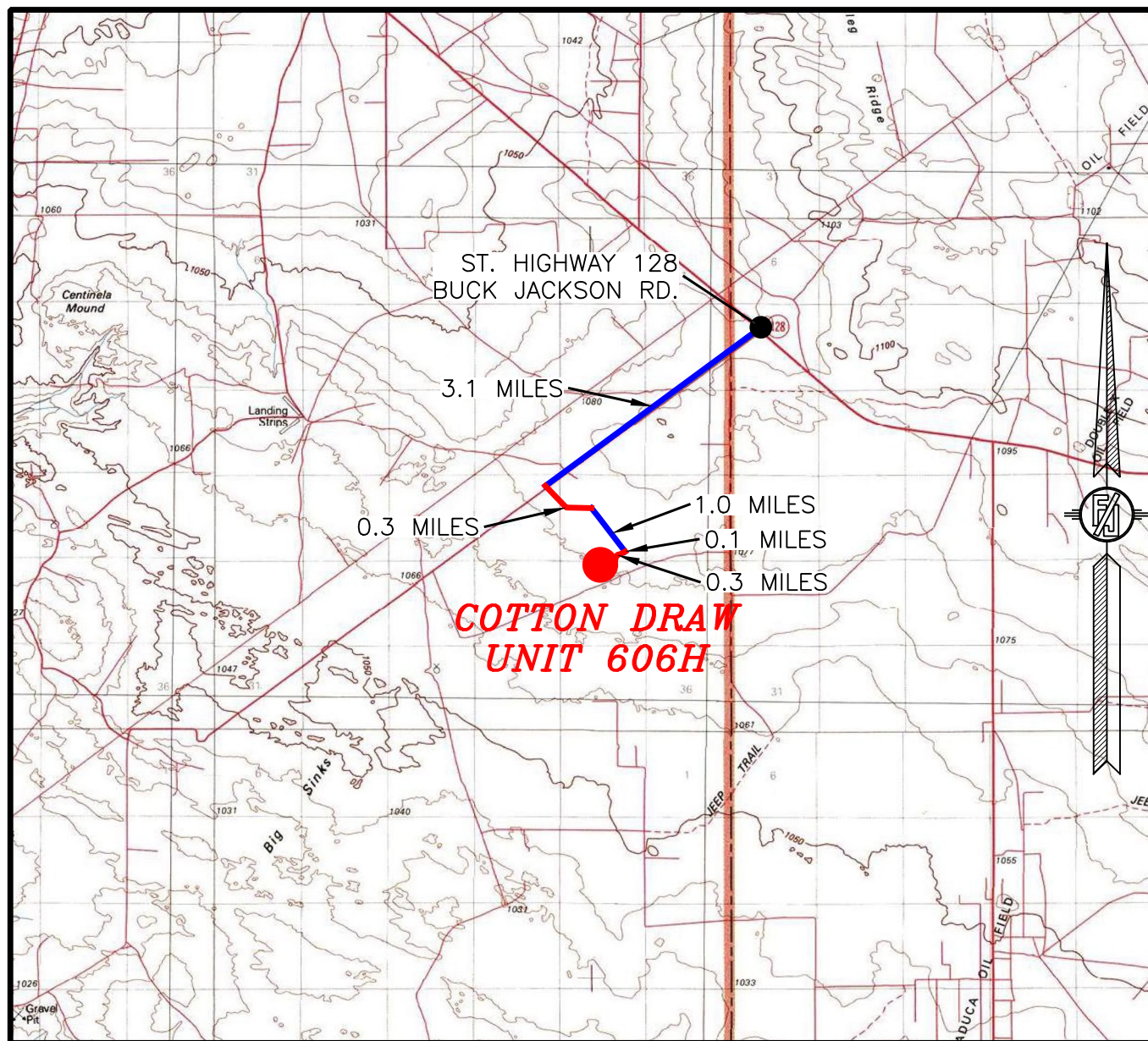
JUNE 16, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 8007B
 CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 24 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 STATE HIGHWAY 128 AND BUCK JACKSON ROAD, GO SOUTHWEST ON BUCK JACKSON ROAD APPROXIMATELY 3.1 MILES TO LEASE ROAD ON LEFT. TURN LEFT (EAST). GO EAST PAST TANK BATTERY AND FRAC POND APPROX. 0.3 MILES, ROAD TURNS RIGHT (SOUTHEAST). GO 1.0 MILES, ROAD TURNS RIGHT. GO 0.1 MILES, ROAD TURNS LEFT. GO SOUTHWEST 0.3 MILES TO WELLPAD ON LEFT (SOUTH) OF ROAD FOR THIS LOCATION.

DEVON ENERGY PRODUCTION COMPANY, L.P.**COTTON DRAW UNIT 606H**

LOCATED 385 FT. FROM THE NORTH LINE
AND 2560 FT. FROM THE WEST LINE OF
SECTION 26, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

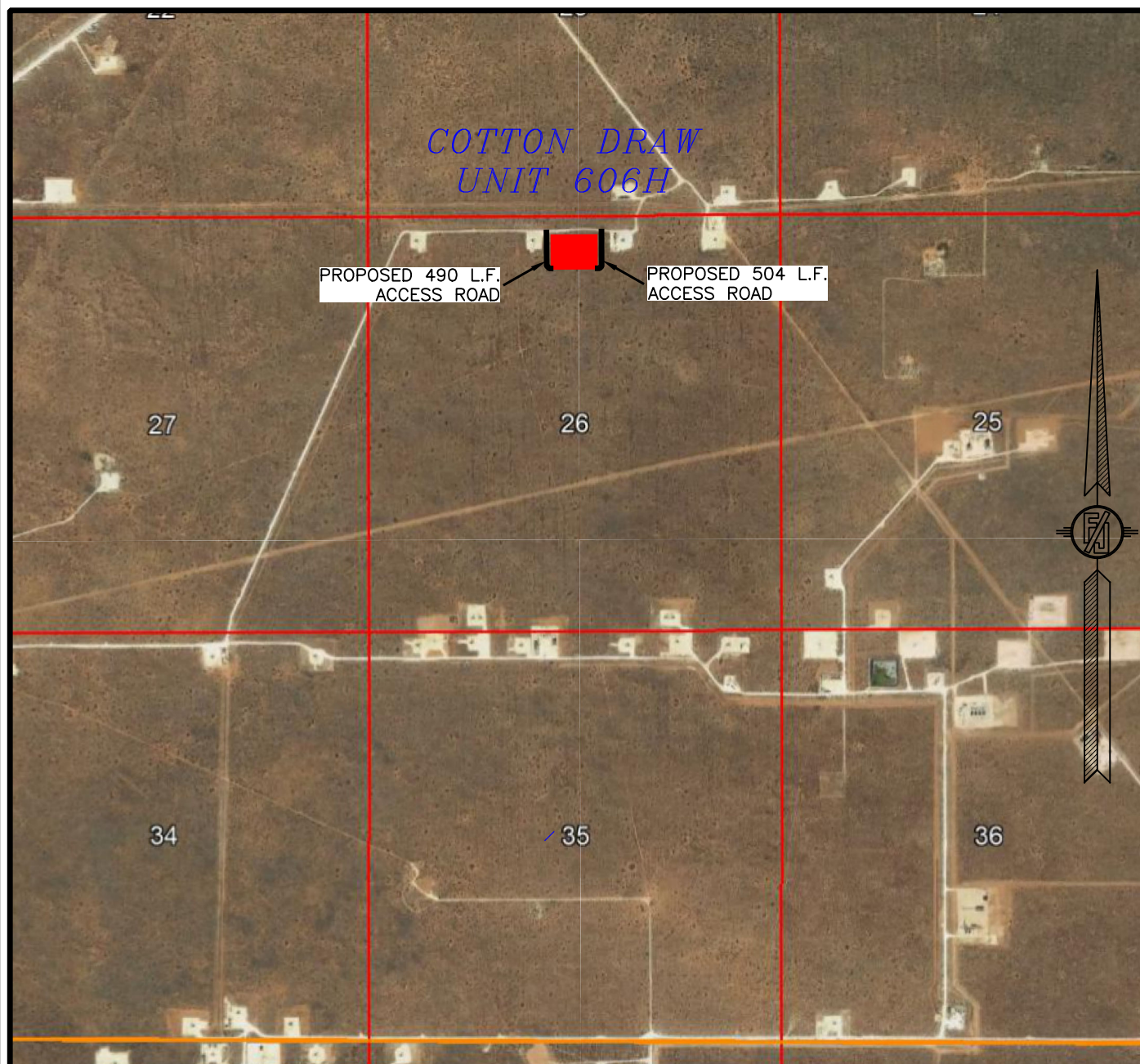
JUNE 16, 2021

MADRON SURVEYING, INC. 301 SOUTH CANAL

(575) 234-3341

SURVEY NO. 8007B
CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 AERIAL PHOTO



NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 606H
 LOCATED 385 FT. FROM THE NORTH LINE
 AND 2560 FT. FROM THE WEST LINE OF
 SECTION 26, TOWNSHIP 24 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

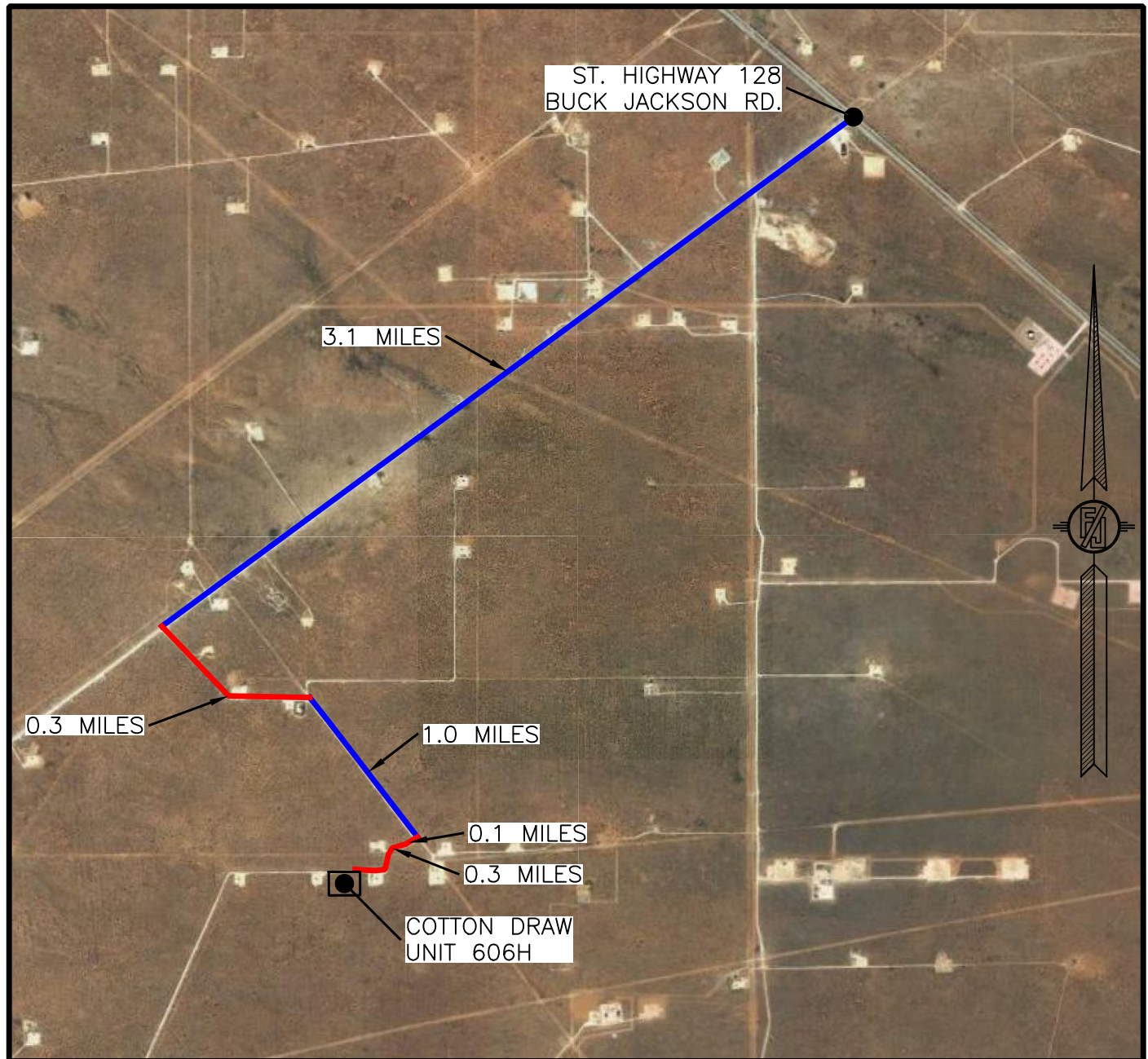
JUNE 16, 2021

SURVEY NO. 8007B

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

CARLSBAD, NEW MEXICO

SECTION 26, TOWNSHIP 24 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
 NOV. 2017

DEVON ENERGY PRODUCTION COMPANY, L.P.
COTTON DRAW UNIT 606H
 LOCATED 385 FT. FROM THE NORTH LINE
 AND 2560 FT. FROM THE WEST LINE OF
 SECTION 26, TOWNSHIP 24 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

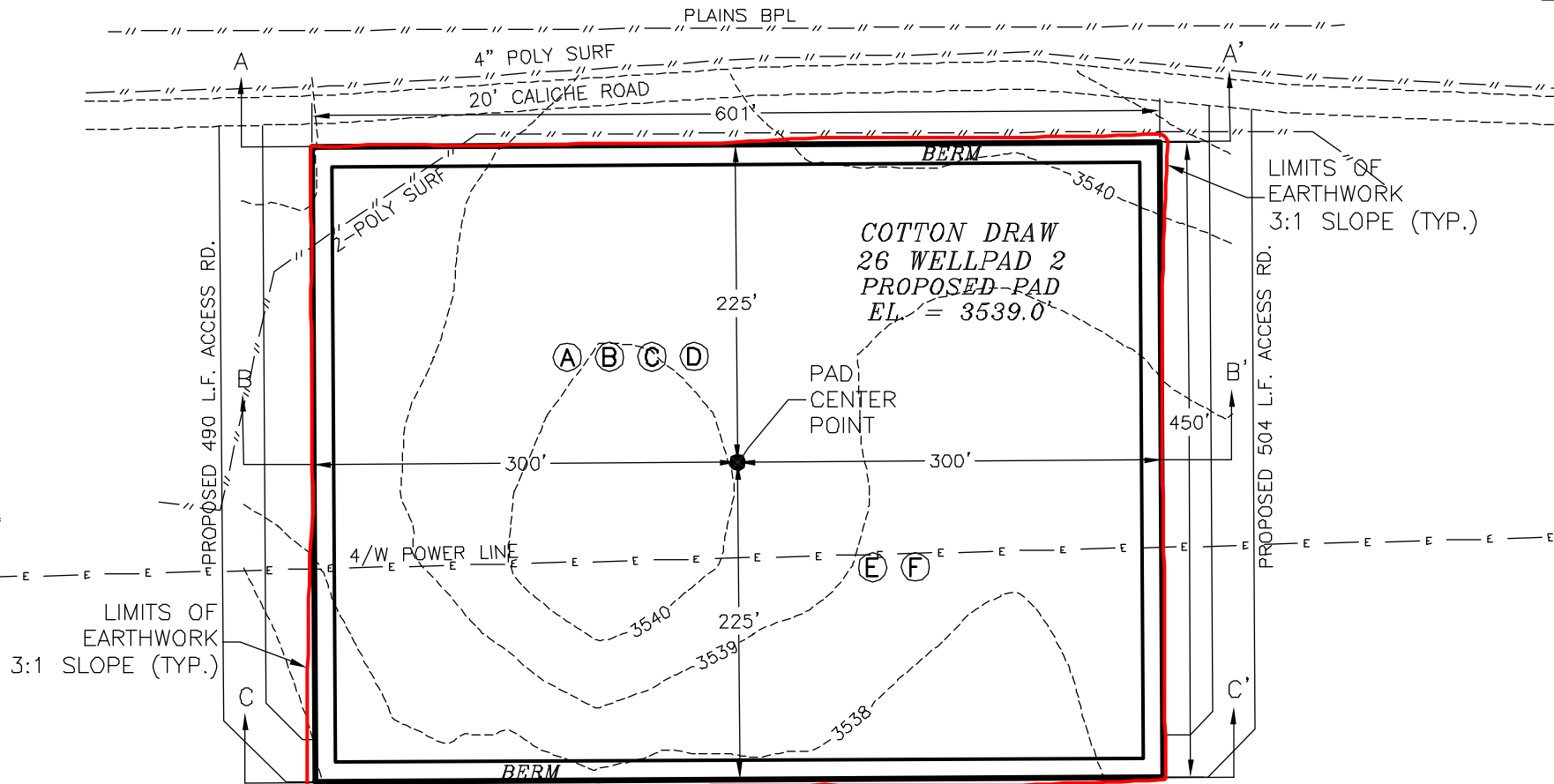
JUNE 16, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL
 (575) 234-3341

SURVEY NO. 8007B
 CARLSBAD, NEW MEXICO

PLAN VIEW



- (A) COTTON DRAW UNIT 605H
- (B) COTTON DRAW UNIT 606H
- (C) COTTON DRAW UNIT 607H
- (D) COTTON DRAW UNIT 608H
- (E) COTTON DRAW UNIT 523H
- (F) COTTON DRAW UNIT 524H

I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

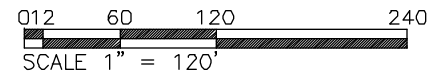


DEVON ENERGY PRODUCTION COMPANY, L.P.
 PAD GRADING AND CROSS SECTIONS
FOR COTTON DRAW UNIT 606H
 SECTION 26, TOWNSHIP 24 SOUTH,
 RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2021

301 SOUTH CANAL
 (575) 234-3341

DEVON SURVEYING, INC. CARLSBAD, NEW MEXICO



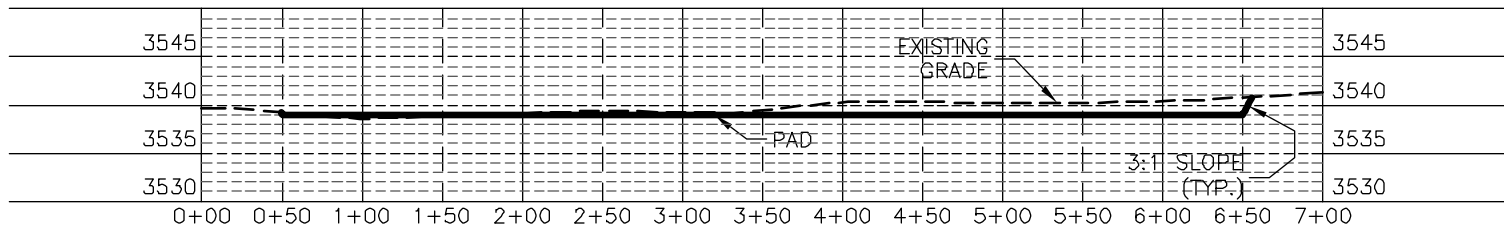
CUT	FILL	NET
2647 CU. YD	4231 CU. YD	1584 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

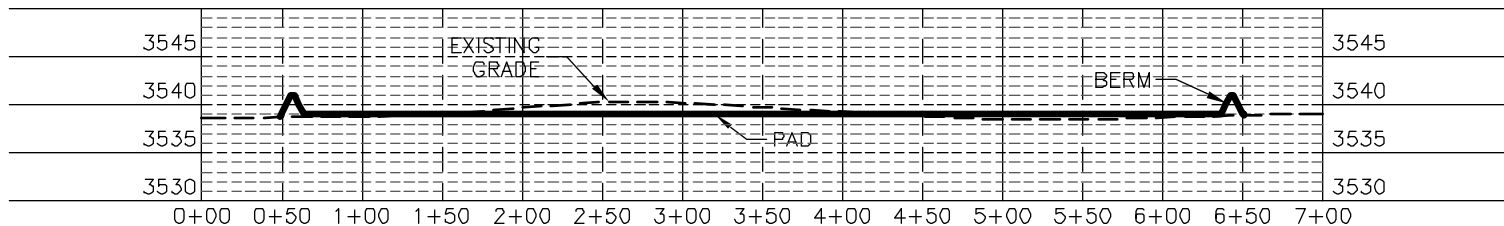
SHEET 1-2
 SURVEY NO. 8007B

CROSS-SECTIONS

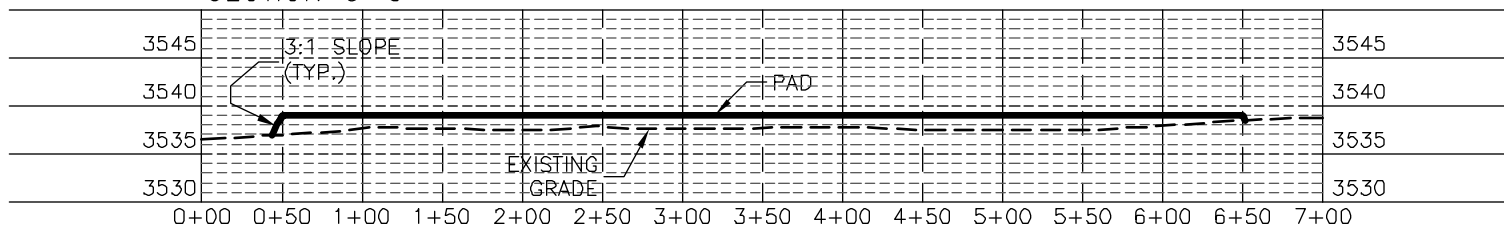
SECTION A-A'



SECTION B-B'



SECTION C-C'



I, FILMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I HAVE PREPARED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, P.E. 12797

DEVON ENERGY PRODUCTION COMPANY, L.P.
PAD GRADING AND CROSS SECTIONS
FOR COTTON DRAW UNIT 606H
SECTION 26, TOWNSHIP 24 SOUTH,
RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO

JUNE 16, 2021

301 SOUTH CANAL
(575) 234-3341

0 12 60 120 240
SCALE 1" = 120' - 1" = 20' VER

CUT	FILL	NET
2647 CU. YD	4231 CU. YD	1584 CU. YD (FILL)

EARTHWORK QUANTITIES ARE ESTIMATED

REGISTERED PROFESSIONAL SURVEYOR

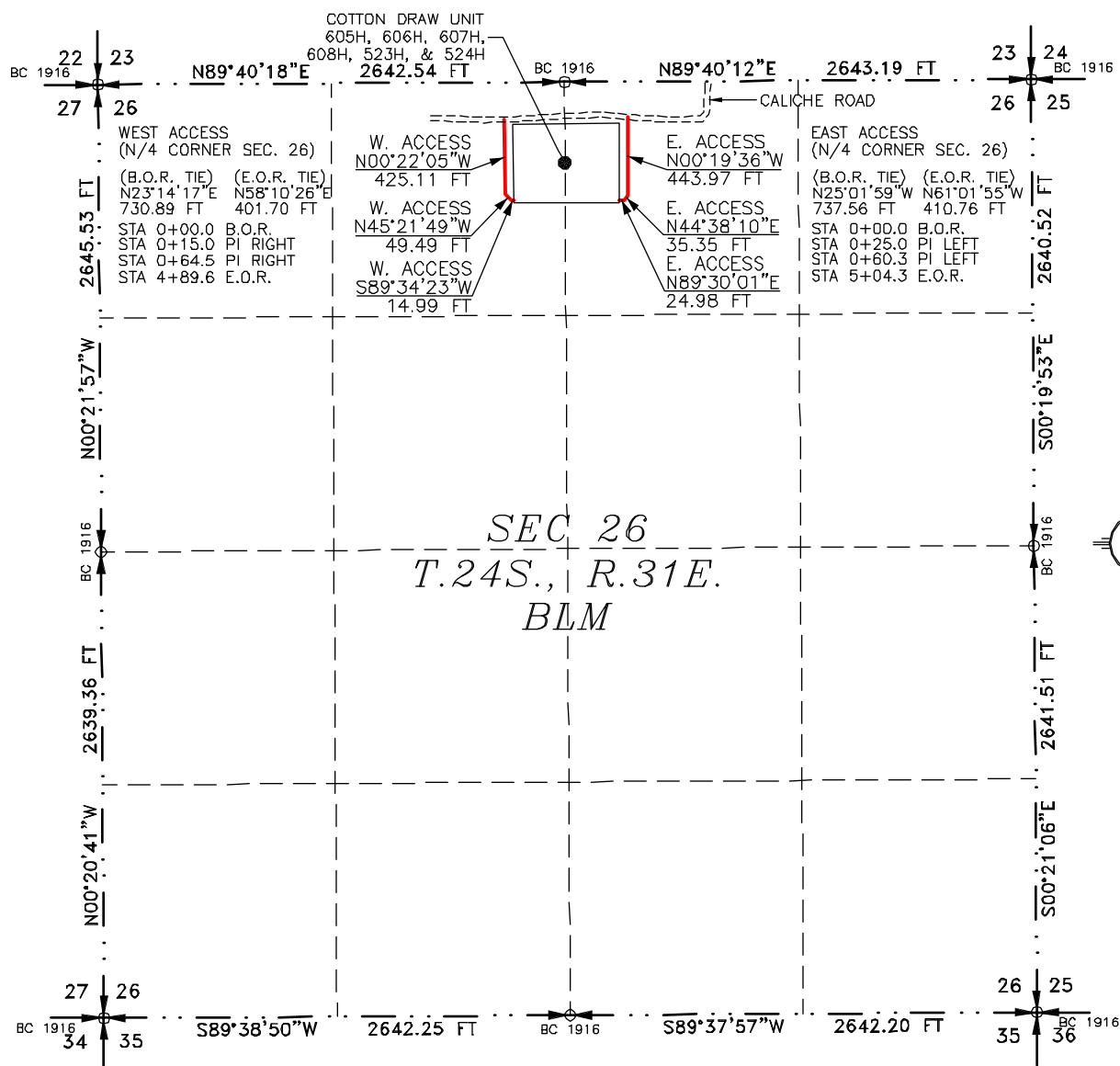
DEVON SURVEYING, INC. CARLSBAD, NEW MEXICO

SHEET 2-2
SURVEY NO. 8007B

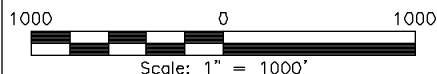
ACCESS ROAD PLAT (7600352R)

ACCESS ROAD FOR COTTON DRAW UNIT 605H, 606H, 607H, 608H, 523H, & 524H

DEVON ENERGY PRODUCTION COMPANY, L.P.
 CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
 SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO
 JUNE 16, 2021



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

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 16TH DAY OF JUNE 2021

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

SURVEY NO. 8007B

ACCESS ROAD PLAT (7600352R)

ACCESS ROAD FOR COTTON DRAW UNIT 605H, 606H, 607H, 608H, 523H, & 524H

**DEVON ENERGY PRODUCTION COMPANY, L.P.
CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING
SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M.
EDDY COUNTY, STATE OF NEW MEXICO
JUNE 16, 2021**

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 26, TOWNSHIP 24 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:

WEST ACCESS

BEGINNING AT A POINT WITHIN THE NE/4 NW/4 OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N23°14'17"E, A DISTANCE OF 730.89 FEET;
THENCE S89°34'23"W A DISTANCE OF 14.99 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N45°21'49"W A DISTANCE OF 49.49 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°22'05"W A DISTANCE OF 425.11 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N58°10'26"E, A DISTANCE OF 401.70 FEET;

SAID STRIP OF LAND BEING 489.59 FEET OR 29.67 RODS IN LENGTH, CONTAINING 0.337 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NW/4 489.59 L.F. 29.67 RODS 0.337 ACRES

EAST ACCESS

BEGINNING AT A POINT WITHIN THE NW/4 NE/4 OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M., WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N25°01'59"W, A DISTANCE OF 737.56 FEET;
THENCE N89°30'01"E A DISTANCE OF 24.98 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N44°38'10"E A DISTANCE OF 35.35 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE N00°19'36"W A DISTANCE OF 443.97 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTH QUARTER CORNER OF SAID SECTION 26, TOWNSHIP 24 SOUTH, RANGE 31 EAST, N.M.P.M. BEARS N61°01'55"W, A DISTANCE OF 410.76 FEET;

SAID STRIP OF LAND BEING 504.30 FEET OR 30.56 RODS IN LENGTH, CONTAINING 0.347 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NW/4 NE/4 504.30 L.F. 30.56 RODS 0.347 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.

IN WITNESS WHEREOF THIS CERTIFICATE IS EXECUTED AT CARLSBAD, NEW MEXICO, THIS 16TH DAY OF JUNE 2021

FILIMON F. JARAMILLO, PLS. 12797
MADRON SURVEYING, INC.
301 SOUTH CANAL
CARLSBAD, NEW MEXICO 88220
Phone (575) 234-3341

SURVEY NO. 8007B

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 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

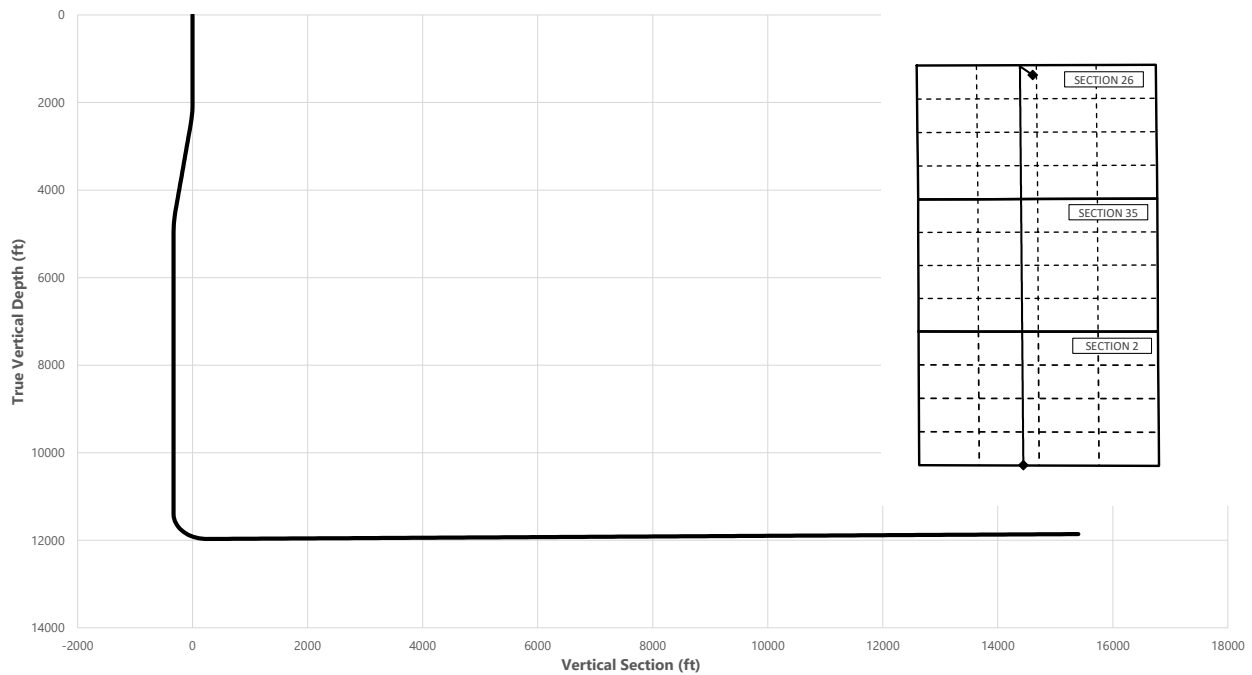
COTTON DRAW UNIT 606H



Well: COTTON DRAW UNIT 606H
 County: Eddy
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
 Datum: North American Datum 1927
 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	320.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	320.00	2497.47	33.34	-27.98	-32.96	1.00	Hold Tangent
4519.10	10.00	320.00	4485.89	301.93	-253.35	-298.51	0.00	Drop to Vertical
5019.10	0.00	320.00	4983.36	335.27	-281.32	-331.48	2.00	Hold Vertical
11432.80	0.00	179.73	11397.06	335.27	-281.32	-331.48	0.00	KOP
12337.00	90.42	179.73	11970.00	-241.88	-278.55	245.58	10.00	Landing Point
27495.11	90.42	179.73	11859.00	-15399.41	-205.80	15400.79	0.00	BHL



Key Depths

	MD (ft)	TVD (ft)
Rustler	0.00	0.00
Salt	1010.00	1010.00
Base of Salt	4431.88	4400.00
Cherry Canyon	5395.74	5360.00
Brushy Canyon	6715.74	6680.00
1st Bone Spring Lime	8325.74	8290.00
Bone Spring 1st	9335.74	9300.00
Bone Spring 2nd	9955.74	9920.00
3rd Bone Spring Lime	10475.74	10440.00
Bone Spring 3rd	11250.74	11215.00
Wolfcamp / Point of Penetration	11752.00	11700.00
EXIT	27415.11	11859.61

SHL
 KOP
 Point of Penetration
 Exit
 BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.1944	-103.7489	385' FNL, 2560' FWL of Sec 26 in T24S, R31E
11432.80	11397.06	32.1954	-103.7498	48' FNL, 2281' FWL of Sec 26 in T24S, R31E
11752.00	11700.00	32.1953	-103.7497	100' FNL, 2300' FWL of Sec 26 in T24S, R31E
27415.11	11859.61	32.1524	-103.7498	100' FSL, 2300' FWL of Sec 2 in T25S, R31E
27495.11	11859.00	32.1521	-103.7499	20' FSL, 2300' FWL of Sec 2 in T25S, R31E

COTTON DRAW UNIT 606H



Well: COTTON DRAW UNIT 606H

County: Eddy

Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	320.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	320.00	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	320.00	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	320.00	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	320.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	320.00	600.00	0.00	0.00	0.00	0.00	
660.00	0.00	320.00	660.00	0.00	0.00	0.00	0.00	Rustler
700.00	0.00	320.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	320.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	320.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	320.00	1000.00	0.00	0.00	0.00	0.00	
1010.00	0.00	320.00	1010.00	0.00	0.00	0.00	0.00	Salt
1100.00	0.00	320.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	320.00	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	320.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	320.00	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	320.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	320.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	320.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	320.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	320.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	320.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	320.00	2099.98	1.34	-1.12	-1.32	2.00	
2200.00	4.00	320.00	2199.84	5.35	-4.49	-5.29	2.00	
2300.00	6.00	320.00	2299.45	12.02	-10.09	-11.89	2.00	
2400.00	8.00	320.00	2398.70	21.36	-17.92	-21.12	2.00	
2500.00	10.00	320.00	2497.47	33.34	-27.98	-32.96	1.00	Hold Tangent
2600.00	10.00	320.00	2595.95	46.64	-39.14	-46.12	0.00	
2700.00	10.00	320.00	2694.43	59.94	-50.30	-59.27	0.00	
2800.00	10.00	320.00	2792.91	73.25	-61.46	-72.42	0.00	
2900.00	10.00	320.00	2891.39	86.55	-72.62	-85.57	0.00	
3000.00	10.00	320.00	2989.87	99.85	-83.79	-98.72	0.00	
3100.00	10.00	320.00	3088.35	113.15	-94.95	-111.87	0.00	
3200.00	10.00	320.00	3186.83	126.46	-106.11	-125.03	0.00	
3300.00	10.00	320.00	3285.31	139.76	-117.27	-138.18	0.00	
3400.00	10.00	320.00	3383.79	153.06	-128.43	-151.33	0.00	
3500.00	10.00	320.00	3482.27	166.36	-139.60	-164.48	0.00	
3600.00	10.00	320.00	3580.75	179.66	-150.76	-177.63	0.00	
3700.00	10.00	320.00	3679.23	192.97	-161.92	-190.78	0.00	
3800.00	10.00	320.00	3777.72	206.27	-173.08	-203.94	0.00	
3900.00	10.00	320.00	3876.20	219.57	-184.24	-217.09	0.00	
4000.00	10.00	320.00	3974.68	232.87	-195.40	-230.24	0.00	
4100.00	10.00	320.00	4073.16	246.17	-206.57	-243.39	0.00	
4200.00	10.00	320.00	4171.64	259.48	-217.73	-256.54	0.00	
4300.00	10.00	320.00	4270.12	272.78	-228.89	-269.70	0.00	
4400.00	10.00	320.00	4368.60	286.08	-240.05	-282.85	0.00	
4431.88	10.00	320.00	4400.00	290.32	-243.61	-287.04	0.00	Base of Salt
4500.00	10.00	320.00	4467.08	299.38	-251.21	-296.00	0.00	
4519.10	10.00	320.00	4485.89	301.93	-253.35	-298.51	0.00	Drop to Vertical
4600.00	8.38	320.00	4565.75	311.82	-261.65	-308.30	2.00	
4700.00	6.38	320.00	4664.92	321.67	-269.91	-318.03	2.00	
4800.00	4.38	320.00	4764.47	328.85	-275.94	-325.13	2.00	
4900.00	2.38	320.00	4864.29	333.37	-279.73	-329.60	2.00	
5000.00	0.38	320.00	4964.26	335.22	-281.28	-331.43	2.00	
5019.10	0.00	320.00	4983.36	335.27	-281.32	-331.48	2.00	Hold Vertical
5100.00	0.00	179.73	5064.26	335.27	-281.32	-331.48	0.00	
5200.00	0.00	179.73	5164.26	335.27	-281.32	-331.48	0.00	
5300.00	0.00	179.73	5264.26	335.27	-281.32	-331.48	0.00	
5395.74	0.00	179.73	5360.00	335.27	-281.32	-331.48	0.00	Cherry Canyon
5400.00	0.00	179.73	5364.26	335.27	-281.32	-331.48	0.00	
5500.00	0.00	179.73	5464.26	335.27	-281.32	-331.48	0.00	
5600.00	0.00	179.73	5564.26	335.27	-281.32	-331.48	0.00	
5700.00	0.00	179.73	5664.26	335.27	-281.32	-331.48	0.00	
5800.00	0.00	179.73	5764.26	335.27	-281.32	-331.48	0.00	
5900.00	0.00	179.73	5864.26	335.27	-281.32	-331.48	0.00	
6000.00	0.00	179.73	5964.26	335.27	-281.32	-331.48	0.00	
6100.00	0.00	179.73	6064.26	335.27	-281.32	-331.48	0.00	
6200.00	0.00	179.73	6164.26	335.27	-281.32	-331.48	0.00	
6300.00	0.00	179.73	6264.26	335.27	-281.32	-331.48	0.00	

COTTON DRAW UNIT 606H



Well: COTTON DRAW UNIT 606H
 County: Eddy
 Wellbore: Permit Plan
 Design: Permit Plan #1

Geodetic System: US State Plane 1983
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 Ellipsoid: Clarke 1866
 Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
6400.00	0.00	179.73	6364.26	335.27	-281.32	-331.48	0.00	
6500.00	0.00	179.73	6464.26	335.27	-281.32	-331.48	0.00	
6600.00	0.00	179.73	6564.26	335.27	-281.32	-331.48	0.00	
6700.00	0.00	179.73	6664.26	335.27	-281.32	-331.48	0.00	
6715.74	0.00	179.73	6680.00	335.27	-281.32	-331.48	0.00	Brushy Canyon
6800.00	0.00	179.73	6764.26	335.27	-281.32	-331.48	0.00	
6900.00	0.00	179.73	6864.26	335.27	-281.32	-331.48	0.00	
7000.00	0.00	179.73	6964.26	335.27	-281.32	-331.48	0.00	
7100.00	0.00	179.73	7064.26	335.27	-281.32	-331.48	0.00	
7200.00	0.00	179.73	7164.26	335.27	-281.32	-331.48	0.00	
7300.00	0.00	179.73	7264.26	335.27	-281.32	-331.48	0.00	
7400.00	0.00	179.73	7364.26	335.27	-281.32	-331.48	0.00	
7500.00	0.00	179.73	7464.26	335.27	-281.32	-331.48	0.00	
7600.00	0.00	179.73	7564.26	335.27	-281.32	-331.48	0.00	
7700.00	0.00	179.73	7664.26	335.27	-281.32	-331.48	0.00	
7800.00	0.00	179.73	7764.26	335.27	-281.32	-331.48	0.00	
7900.00	0.00	179.73	7864.26	335.27	-281.32	-331.48	0.00	
8000.00	0.00	179.73	7964.26	335.27	-281.32	-331.48	0.00	
8100.00	0.00	179.73	8064.26	335.27	-281.32	-331.48	0.00	
8200.00	0.00	179.73	8164.26	335.27	-281.32	-331.48	0.00	
8300.00	0.00	179.73	8264.26	335.27	-281.32	-331.48	0.00	
8325.74	0.00	179.73	8290.00	335.27	-281.32	-331.48	0.00	1st Bone Spring Lime
8400.00	0.00	179.73	8364.26	335.27	-281.32	-331.48	0.00	
8500.00	0.00	179.73	8464.26	335.27	-281.32	-331.48	0.00	
8600.00	0.00	179.73	8564.26	335.27	-281.32	-331.48	0.00	
8700.00	0.00	179.73	8664.26	335.27	-281.32	-331.48	0.00	
8800.00	0.00	179.73	8764.26	335.27	-281.32	-331.48	0.00	
8900.00	0.00	179.73	8864.26	335.27	-281.32	-331.48	0.00	
9000.00	0.00	179.73	8964.26	335.27	-281.32	-331.48	0.00	
9100.00	0.00	179.73	9064.26	335.27	-281.32	-331.48	0.00	
9200.00	0.00	179.73	9164.26	335.27	-281.32	-331.48	0.00	
9300.00	0.00	179.73	9264.26	335.27	-281.32	-331.48	0.00	
9335.74	0.00	179.73	9300.00	335.27	-281.32	-331.48	0.00	Bone Spring 1st
9400.00	0.00	179.73	9364.26	335.27	-281.32	-331.48	0.00	
9500.00	0.00	179.73	9464.26	335.27	-281.32	-331.48	0.00	
9600.00	0.00	179.73	9564.26	335.27	-281.32	-331.48	0.00	
9700.00	0.00	179.73	9664.26	335.27	-281.32	-331.48	0.00	
9800.00	0.00	179.73	9764.26	335.27	-281.32	-331.48	0.00	
9900.00	0.00	179.73	9864.26	335.27	-281.32	-331.48	0.00	
9955.74	0.00	179.73	9920.00	335.27	-281.32	-331.48	0.00	Bone Spring 2nd
10000.00	0.00	179.73	9964.26	335.27	-281.32	-331.48	0.00	
10100.00	0.00	179.73	10064.26	335.27	-281.32	-331.48	0.00	
10200.00	0.00	179.73	10164.26	335.27	-281.32	-331.48	0.00	
10300.00	0.00	179.73	10264.26	335.27	-281.32	-331.48	0.00	
10400.00	0.00	179.73	10364.26	335.27	-281.32	-331.48	0.00	
10475.74	0.00	179.73	10440.00	335.27	-281.32	-331.48	0.00	3rd Bone Spring Lime
10500.00	0.00	179.73	10464.26	335.27	-281.32	-331.48	0.00	
10600.00	0.00	179.73	10564.26	335.27	-281.32	-331.48	0.00	
10700.00	0.00	179.73	10664.26	335.27	-281.32	-331.48	0.00	
10800.00	0.00	179.73	10764.26	335.27	-281.32	-331.48	0.00	
10900.00	0.00	179.73	10864.26	335.27	-281.32	-331.48	0.00	
11000.00	0.00	179.73	10964.26	335.27	-281.32	-331.48	0.00	
11100.00	0.00	179.73	11064.26	335.27	-281.32	-331.48	0.00	
11200.00	0.00	179.73	11164.26	335.27	-281.32	-331.48	0.00	
11250.74	0.00	179.73	11215.00	335.27	-281.32	-331.48	0.00	Bone Spring 3rd
11300.00	0.00	179.73	11264.26	335.27	-281.32	-331.48	0.00	
11400.00	0.00	179.73	11364.26	335.27	-281.32	-331.48	0.00	
11432.80	0.00	179.73	11397.06	335.27	-281.32	-331.48	0.00	KOP
11500.00	6.72	179.73	11464.10	331.33	-281.30	-327.54	10.00	
11600.00	16.72	179.73	11561.89	311.04	-281.21	-307.26	10.00	
11700.00	26.72	179.73	11654.68	274.08	-281.03	-270.30	10.00	
11752.00	31.92	179.73	11700.00	248.63	-280.91	-244.85	10.00	Wolfcamp / Point of Penetration
11800.00	36.72	179.73	11739.63	221.57	-280.78	-217.80	10.00	
11900.00	46.72	179.73	11814.18	155.11	-280.46	-151.35	10.00	
12000.00	56.72	179.73	11876.05	76.71	-280.08	-72.96	10.00	
12100.00	66.72	179.73	11923.37	-11.24	-279.66	14.98	10.00	
12200.00	76.72	179.73	11954.69	-106.07	-279.20	109.79	10.00	
12300.00	86.72	179.73	11969.08	-204.90	-278.73	208.61	10.00	
12337.00	90.42	179.73	11970.00	-241.88	-278.55	245.58	10.00	Landing Point
12400.00	90.42	179.73	11969.54	-304.88	-278.25	308.57	0.00	

COTTON DRAW UNIT 606H



Well: COTTON DRAW UNIT 606H
 County: Eddy
 Wellbore: Permit Plan
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MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
12500.00	90.42	179.73	11968.81	-404.88	-277.77	408.55	0.00	
12600.00	90.42	179.73	11968.07	-504.87	-277.29	508.53	0.00	
12700.00	90.42	179.73	11967.34	-604.87	-276.81	608.52	0.00	
12800.00	90.42	179.73	11966.61	-704.87	-276.33	708.50	0.00	
12900.00	90.42	179.73	11965.88	-804.86	-275.85	808.48	0.00	
13000.00	90.42	179.73	11965.15	-904.86	-275.37	908.46	0.00	
13100.00	90.42	179.73	11964.41	-1004.86	-274.89	1008.44	0.00	
13200.00	90.42	179.73	11963.68	-1104.85	-274.41	1108.42	0.00	
13300.00	90.42	179.73	11962.95	-1204.85	-273.93	1208.40	0.00	
13400.00	90.42	179.73	11962.22	-1304.84	-273.45	1308.38	0.00	
13500.00	90.42	179.73	11961.48	-1404.84	-272.97	1408.36	0.00	
13600.00	90.42	179.73	11960.75	-1504.84	-272.49	1508.34	0.00	
13700.00	90.42	179.73	11960.02	-1604.83	-272.01	1608.32	0.00	
13800.00	90.42	179.73	11959.29	-1704.83	-271.53	1708.30	0.00	
13900.00	90.42	179.73	11958.56	-1804.82	-271.05	1808.29	0.00	
14000.00	90.42	179.73	11957.82	-1904.82	-270.57	1908.27	0.00	
14100.00	90.42	179.73	11957.09	-2004.82	-270.09	2008.25	0.00	
14200.00	90.42	179.73	11956.36	-2104.81	-269.61	2108.23	0.00	
14300.00	90.42	179.73	11955.63	-2204.81	-269.12	2208.21	0.00	
14400.00	90.42	179.73	11954.90	-2304.81	-268.64	2308.19	0.00	
14500.00	90.42	179.73	11954.16	-2404.80	-268.16	2408.17	0.00	
14600.00	90.42	179.73	11953.43	-2504.80	-267.68	2508.15	0.00	
14700.00	90.42	179.73	11952.70	-2604.79	-267.20	2608.13	0.00	
14800.00	90.42	179.73	11951.97	-2704.79	-266.72	2708.11	0.00	
14900.00	90.42	179.73	11951.23	-2804.79	-266.24	2808.09	0.00	
15000.00	90.42	179.73	11950.50	-2904.78	-265.76	2908.07	0.00	
15100.00	90.42	179.73	11949.77	-3004.78	-265.28	3008.06	0.00	
15200.00	90.42	179.73	11949.04	-3104.77	-264.80	3108.04	0.00	
15300.00	90.42	179.73	11948.31	-3204.77	-264.32	3208.02	0.00	
15400.00	90.42	179.73	11947.57	-3304.77	-263.84	3308.00	0.00	
15500.00	90.42	179.73	11946.84	-3404.76	-263.36	3407.98	0.00	
15600.00	90.42	179.73	11946.11	-3504.76	-262.88	3507.96	0.00	
15700.00	90.42	179.73	11945.38	-3604.76	-262.40	3607.94	0.00	
15800.00	90.42	179.73	11944.65	-3704.75	-261.92	3707.92	0.00	
15900.00	90.42	179.73	11943.91	-3804.75	-261.44	3807.90	0.00	
16000.00	90.42	179.73	11943.18	-3904.74	-260.96	3907.88	0.00	
16100.00	90.42	179.73	11942.45	-4004.74	-260.48	4007.86	0.00	
16200.00	90.42	179.73	11941.72	-4104.74	-260.00	4107.84	0.00	
16300.00	90.42	179.73	11940.98	-4204.73	-259.52	4207.83	0.00	
16400.00	90.42	179.73	11940.25	-4304.73	-259.04	4307.81	0.00	
16500.00	90.42	179.73	11939.52	-4404.72	-258.56	4407.79	0.00	
16600.00	90.42	179.73	11938.79	-4504.72	-258.08	4507.77	0.00	
16700.00	90.42	179.73	11938.06	-4604.72	-257.60	4607.75	0.00	
16800.00	90.42	179.73	11937.32	-4704.71	-257.12	4707.73	0.00	
16900.00	90.42	179.73	11936.59	-4804.71	-256.64	4807.71	0.00	
17000.00	90.42	179.73	11935.86	-4904.71	-256.16	4907.69	0.00	
17100.00	90.42	179.73	11935.13	-5004.70	-255.68	5007.67	0.00	
17200.00	90.42	179.73	11934.40	-5104.70	-255.20	5107.65	0.00	
17300.00	90.42	179.73	11933.66	-5204.69	-254.72	5207.63	0.00	
17400.00	90.42	179.73	11932.93	-5304.69	-254.24	5307.61	0.00	
17500.00	90.42	179.73	11932.20	-5404.69	-253.76	5407.59	0.00	
17600.00	90.42	179.73	11931.47	-5504.68	-253.28	5507.58	0.00	
17700.00	90.42	179.73	11930.73	-5604.68	-252.80	5607.56	0.00	
17800.00	90.42	179.73	11930.00	-5704.67	-252.32	5707.54	0.00	
17900.00	90.42	179.73	11929.27	-5804.67	-251.84	5807.52	0.00	
18000.00	90.42	179.73	11928.54	-5904.67	-251.36	5907.50	0.00	
18100.00	90.42	179.73	11927.81	-6004.66	-250.88	6007.48	0.00	
18200.00	90.42	179.73	11927.07	-6104.66	-250.40	6107.46	0.00	
18300.00	90.42	179.73	11926.34	-6204.66	-249.92	6207.44	0.00	
18400.00	90.42	179.73	11925.61	-6304.65	-249.44	6307.42	0.00	
18500.00	90.42	179.73	11924.88	-6404.65	-248.96	6407.40	0.00	
18600.00	90.42	179.73	11924.15	-6504.64	-248.48	6507.38	0.00	
18700.00	90.42	179.73	11923.41	-6604.64	-248.00	6607.36	0.00	
18800.00	90.42	179.73	11922.68	-6704.64	-247.52	6707.35	0.00	
18900.00	90.42	179.73	11921.95	-6804.63	-247.03	6807.33	0.00	
19000.00	90.42	179.73	11921.22	-6904.63	-246.55	6907.31	0.00	
19100.00	90.42	179.73	11920.48	-7004.63	-246.07	7007.29	0.00	
19200.00	90.42	179.73	11919.75	-7104.62	-245.59	7107.27	0.00	
19300.00	90.42	179.73	11919.02	-7204.62	-245.11	7207.25	0.00	
19400.00	90.42	179.73	11918.29	-7304.61	-244.63	7307.23	0.00	

COTTON DRAW UNIT 606H



Well: COTTON DRAW UNIT 606H
County: Eddy
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983
Datum: North American Datum 1927
Ellipsoid: Clarke 1866
Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
19500.00	90.42	179.73	11917.56	-7404.61	-244.15	7407.21	0.00	
19600.00	90.42	179.73	11916.82	-7504.61	-243.67	7507.19	0.00	
19700.00	90.42	179.73	11916.09	-7604.60	-243.19	7607.17	0.00	
19800.00	90.42	179.73	11915.36	-7704.60	-242.71	7707.15	0.00	
19900.00	90.42	179.73	11914.63	-7804.59	-242.23	7807.13	0.00	
20000.00	90.42	179.73	11913.90	-7904.59	-241.75	7907.12	0.00	
20100.00	90.42	179.73	11913.16	-8004.59	-241.27	8007.10	0.00	
20200.00	90.42	179.73	11912.43	-8104.58	-240.79	8107.08	0.00	
20300.00	90.42	179.73	11911.70	-8204.58	-240.31	8207.06	0.00	
20400.00	90.42	179.73	11910.97	-8304.58	-239.83	8307.04	0.00	
20500.00	90.42	179.73	11910.23	-8404.57	-239.35	8407.02	0.00	
20600.00	90.42	179.73	11909.50	-8504.57	-238.87	8507.00	0.00	
20700.00	90.42	179.73	11908.77	-8604.56	-238.39	8606.98	0.00	
20800.00	90.42	179.73	11908.04	-8704.56	-237.91	8706.96	0.00	
20900.00	90.42	179.73	11907.31	-8804.56	-237.43	8806.94	0.00	
21000.00	90.42	179.73	11906.57	-8904.55	-236.95	8906.92	0.00	
21100.00	90.42	179.73	11905.84	-9004.55	-236.47	9006.90	0.00	
21200.00	90.42	179.73	11905.11	-9104.54	-235.99	9106.89	0.00	
21300.00	90.42	179.73	11904.38	-9204.54	-235.51	9206.87	0.00	
21400.00	90.42	179.73	11903.65	-9304.54	-235.03	9306.85	0.00	
21500.00	90.42	179.73	11902.91	-9404.53	-234.55	9406.83	0.00	
21600.00	90.42	179.73	11902.18	-9504.53	-234.07	9506.81	0.00	
21700.00	90.42	179.73	11901.45	-9604.53	-233.59	9606.79	0.00	
21800.00	90.42	179.73	11900.72	-9704.52	-233.11	9706.77	0.00	
21900.00	90.42	179.73	11899.98	-9804.52	-232.63	9806.75	0.00	
22000.00	90.42	179.73	11899.25	-9904.51	-232.15	9906.73	0.00	
22100.00	90.42	179.73	11898.52	-10004.51	-231.67	10006.71	0.00	
22200.00	90.42	179.73	11897.79	-10104.51	-231.19	10106.69	0.00	
22300.00	90.42	179.73	11897.06	-10204.50	-230.71	10206.67	0.00	
22400.00	90.42	179.73	11896.32	-10304.50	-230.23	10306.66	0.00	
22500.00	90.42	179.73	11895.59	-10404.49	-229.75	10406.64	0.00	
22600.00	90.42	179.73	11894.86	-10504.49	-229.27	10506.62	0.00	
22700.00	90.42	179.73	11894.13	-10604.49	-228.79	10606.60	0.00	
22800.00	90.42	179.73	11893.40	-10704.48	-228.31	10706.58	0.00	
22900.00	90.42	179.73	11892.66	-10804.48	-227.83	10806.56	0.00	
23000.00	90.42	179.73	11891.93	-10904.48	-227.35	10906.54	0.00	
23100.00	90.42	179.73	11891.20	-11004.47	-226.87	11006.52	0.00	
23200.00	90.42	179.73	11890.47	-11104.47	-226.39	11106.50	0.00	
23300.00	90.42	179.73	11889.73	-11204.46	-225.91	11206.48	0.00	
23400.00	90.42	179.73	11889.00	-11304.46	-225.43	11306.46	0.00	
23500.00	90.42	179.73	11888.27	-11404.46	-224.94	11406.44	0.00	
23600.00	90.42	179.73	11887.54	-11504.45	-224.46	11506.42	0.00	
23700.00	90.42	179.73	11886.81	-11604.45	-223.98	11606.41	0.00	
23800.00	90.42	179.73	11886.07	-11704.44	-223.50	11706.39	0.00	
23900.00	90.42	179.73	11885.34	-11804.44	-223.02	11806.37	0.00	
24000.00	90.42	179.73	11884.61	-11904.44	-222.54	11906.35	0.00	
24100.00	90.42	179.73	11883.88	-12004.43	-222.06	12006.33	0.00	
24200.00	90.42	179.73	11883.14	-12104.43	-221.58	12106.31	0.00	
24300.00	90.42	179.73	11882.41	-12204.43	-221.10	12206.29	0.00	
24400.00	90.42	179.73	11881.68	-12304.42	-220.62	12306.27	0.00	
24500.00	90.42	179.73	11880.95	-12404.42	-220.14	12406.25	0.00	
24600.00	90.42	179.73	11880.22	-12504.41	-219.66	12506.23	0.00	
24700.00	90.42	179.73	11879.48	-12604.41	-219.18	12606.21	0.00	
24800.00	90.42	179.73	11878.75	-12704.41	-218.70	12706.19	0.00	
24900.00	90.42	179.73	11878.02	-12804.40	-218.22	12806.18	0.00	
25000.00	90.42	179.73	11877.29	-12904.40	-217.74	12906.16	0.00	
25100.00	90.42	179.73	11876.56	-13004.40	-217.26	13006.14	0.00	
25200.00	90.42	179.73	11875.82	-13104.39	-216.78	13106.12	0.00	
25300.00	90.42	179.73	11875.09	-13204.39	-216.30	13206.10	0.00	
25400.00	90.42	179.73	11874.36	-13304.38	-215.82	13306.08	0.00	
25500.00	90.42	179.73	11873.63	-13404.38	-215.34	13406.06	0.00	
25600.00	90.42	179.73	11872.89	-13504.38	-214.86	13506.04	0.00	
25700.00	90.42	179.73	11872.16	-13604.37	-214.38	13606.02	0.00	
25800.00	90.42	179.73	11871.43	-13704.37	-213.90	13706.00	0.00	
25900.00	90.42	179.73	11870.70	-13804.36	-213.42	13805.98	0.00	
26000.00	90.42	179.73	11869.97	-13904.36	-212.94	13905.96	0.00	
26100.00	90.42	179.73	11869.23	-14004.36	-212.46	14005.95	0.00	
26200.00	90.42	179.73	11868.50	-14104.35	-211.98	14105.93	0.00	
26300.00	90.42	179.73	11867.77	-14204.35	-211.50	14205.91	0.00	
26400.00	90.42	179.73	11867.04	-14304.35	-211.02	14305.89	0.00	
26500.00	90.42	179.73	11866.31	-14404.34	-210.54	14405.87	0.00	
26600.00	90.42	179.73	11865.57	-14504.34	-210.06	14505.85	0.00	
26700.00	90.42	179.73	11864.84	-14604.33	-209.58	14605.83	0.00	
26800.00	90.42	179.73	11864.11	-14704.33	-209.10	14705.81	0.00	
26900.00	90.42	179.73	11863.38	-14804.33	-208.62	14805.79	0.00	
27000.00	90.42	179.73	11862.64	-14904.32	-208.14	14905.77	0.00	
27100.00	90.42	179.73	11861.91	-15004.32	-207.66	15005.75	0.00	
27200.00	90.42	179.73	11861.18	-15104.31	-207.18	15105.73	0.00	
27300.00	90.42	179.73	11860.45	-15204.31	-206.70	15205.72	0.00	
27400.00	90.42	179.73	11859.72	-15304.31	-206.22	15305.70	0.00	
27415.11	90.42	179.73	11859.61	-15319.41	-206.14	15320.80	0.00	EXIT
27495.11	90.42	179.73	11859.00	-15399.41	-205.80	15400.79	0.00	BHL

COTTON DRAW UNIT 606H

1. Geologic Formations

TVD of target	11860	Pilot hole depth	N/A
MD at TD:	27495	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	660		
Salt	1010		
Base of Salt	4400		
Cherry Canyon	5360		
Brushy Canyon	6680		
1st Bone Spring Lime	8290		
Bone Spring 1st	9300		
Bone Spring 2nd	9920		
3rd Bone Spring Lime	10440		
Bone Spring 3rd	11215		
Wolfcamp	11700		

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

COTTON DRAW UNIT 606H

2. Casing Program (Primary Design)

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	685	0	685
9 7/8	8 5/8	32	P110	TLW	0	11215	0	11215
7 7/8	5 1/2	17	P110	BTC	0	27495	0	11860

• All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 IILB.1.h Must have table for contingency casing.

3. Cementing Program (Primary Design)

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	534	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	427	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	427	Surf	9	3.27	Lead: Class C Cement + additives
	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	9433	9	3.27	Lead: Class H / C + additives
	2126	11433	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Intermediate 1 (Two Stage)	25%
Prod	10%

COTTON DRAW UNIT 606H

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?		Size?	Min. Required WP	Type	✓	Tested to:	
Int 1		13-5/8"	5M	Annular		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
Production		13-5/8"	5M	Annular (5M)		X	50% of rated working pressure
				Blind Ram		X	5M
				Pipe Ram			
				Double Ram		X	
				Other*			
				Annular (5M)			
				Blind Ram			
				Pipe Ram			
				Double Ram			
				Other*			
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.						
Y	A variance is requested to run a 5 M annular on a 10M system						

COTTON DRAW UNIT 606H

5. Mud Program (Three String Design)

Section	Type	Weight (ppg)
Surface	FW Gel	8.5-9
Intermediate	DBE / Cut Brine	10-10.5
Production	OBM	10-10.5

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
---	-----------------------------

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	Int. shoe to KOP
	Density	Int. shoe to KOP
X	CBL	Production casing
X	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH pressure at deepest TVD	6475
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	H ₂ S is present
Y	H ₂ S plan attached.

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

COTTON DRAW UNIT 606H

from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch 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 pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A 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

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 48405

COMMENTS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 48405
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 9/17/2021	9/17/2021

District I

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

CONDITIONS

Action 48405

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 48405
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	• NSL Will require an administrative order for non-standard location prior to placing the well on production.	9/17/2021
kpickford	Adhere to previous NMOCD Conditions of Approval	9/17/2021