

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT Sundry Print Repor

Well Name: Cotton Draw Unit Well Location: T25S / R32E / SEC 28 / County or Parish/State:

NENE /

Well Number: 647H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMLC061869 **Unit or CA Name: Unit or CA Number:**

US Well Number: 3002549135 Well Status: Approved Application for **Operator: DEVON ENERGY**

PRODUCTION COMPANY LP Permit to Drill

Notice of Intent

Sundry ID: 2695761

Type of Submission: Notice of Intent Type of Action: APD Change

Date Sundry Submitted: 09/30/2022 **Time Sundry Submitted: 10:15**

Date proposed operation will begin: 09/30/2022

Procedure Description: BHL/NAME/DRILLING CHANGE Devon Energy Production Co., L.P. (Devon) respectfully requests to move the BHL and have a name change on the subject well. Please see attached revised C102, Drill plan(with break test variance), directional plan. Permitted BHL: NENE-16-25S-32E, 20 FNL, 700 FEL Proposed BHL: NENE-16-25S-32E, 20 FNL, 990 FEL Permitted Well name: MARWARI 21 16 STATE FEDERAL COM #718H Proposed Well name: COTTON DRAW UNIT 647H

NOI Attachments

Procedure Description

Cotton_Draw_Unit_647H__20221005112545.pdf

WA017743634_COTTON_DRAW_UNIT_647H_WL_R3_20220930101435.pdf

Cotton_Draw_Unit_647H__Directional_Plan_09_27_22_20220930101434.pdf

break_test_variance_BOP_20220930101434.pdf

eceived by OCD: 11/11/2022 9:05:02 AM
Well Name: Cotton Draw Unit

Well Location: T25S / R32E / SEC 28 /

NENE /

Well Number: 647H

Type of Well: OIL WELL

Allottee or Tribe Name:

County or Parish/State:

Page 2 of

Lease Number: NMLC061869

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002549135

Well Status: Approved Application for Permit to Drill

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Additional

28_25_32_A_Sundry_ID_2695761_Cotton_Draw_Unit_647H_Lea_LC061869_13_22d_10_28_2022_LV_20221028131 058.pdf

Cotton_Draw_Unit_647H_Sundry_ID_2695761_20221028131058.pdf

Operator

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

Operator Electronic Signature: JENNY HARMS Signed on: OCT 05, 2022 11:26 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 Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 11/01/2022

Signature: Chris Walls

Page 2 of 2

District I

District III

640

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

1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 <u>District IV</u>

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

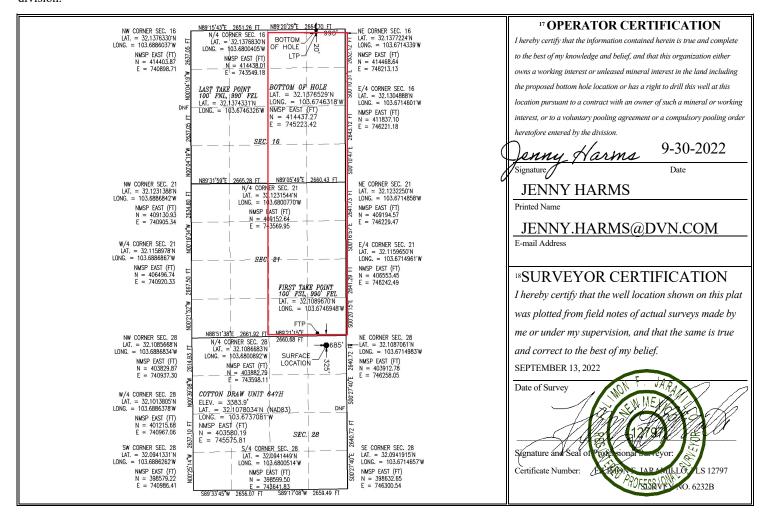
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code [98270]	WC-025 G-08 S253216D; UPPER WO	LFCAMP	
⁴ Property Code		5 P1	⁶ Well Number		
		COTTON DRAW UNIT			
⁷ OGRID No.		8 O ₁	⁹ Elevation		
6137		DEVON ENERGY PRO	3383.9		

¹⁰ Surface Location

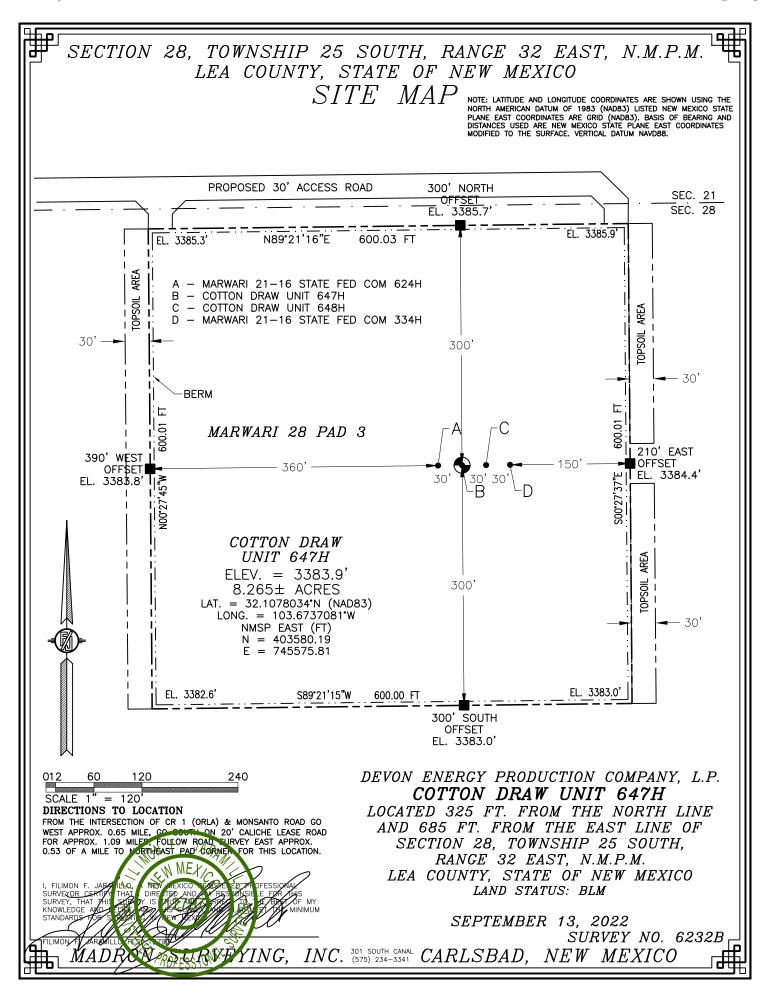
UL or lot no. A	Section 28	Township 25 S	Range 32 E	Lot Idn	Feet from the 325	North/South line NORTH	Feet from the 685	East/West line EAST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	25 S	32 E		20	NORTH	990	EAST	LEA
12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code				n Code			15 Order No.		

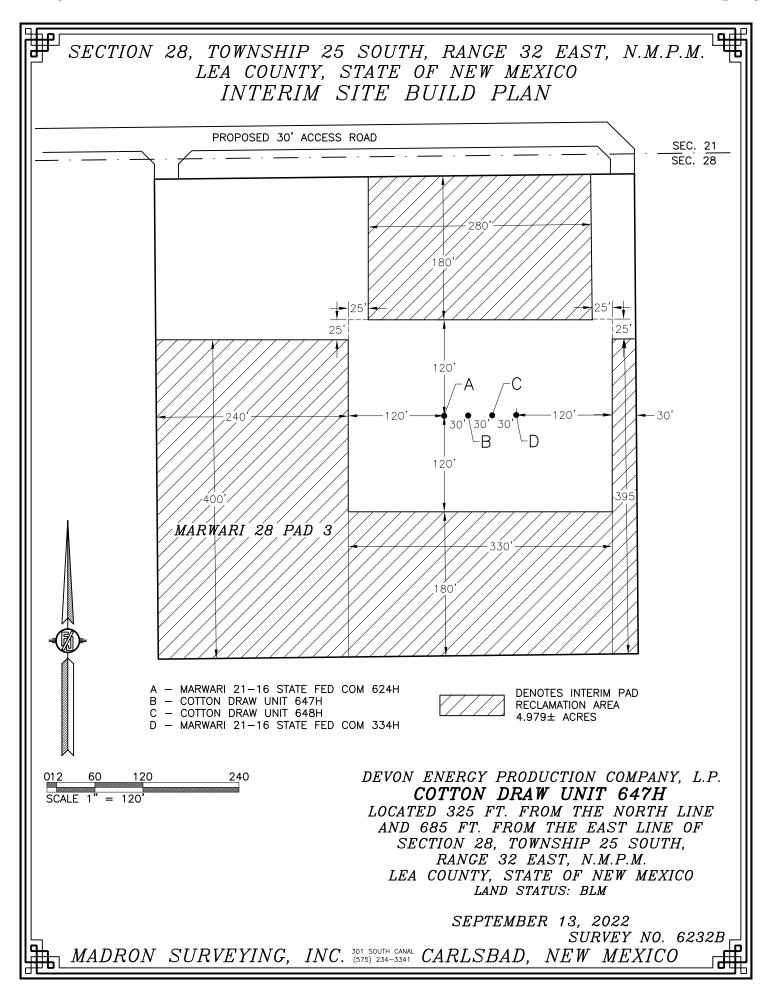
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Intent	t X	As Dril	led											
API#														
Operator Name: DEVON ENERGY PRODUCTION COMPANY, L.P.					J	Prope	•			UNIT				Well Number 647H
Kick C	Off Point	(KOP)												
UL	Section 21	Township 25S	Range 32E	Lot	Feet 43 FSI		From N	/S	Feet 99	0 FEL	From	ı E/W	County LEA	
Latitu	ode 32.1086	57860			Longitu -103.	_{ide} .67469	9480						NAD 83	
First 1	Γake Poir	nt (FTP)												
UL P	Section 21	Township 25S	Range 32E	Lot	Feet 100		From N		Feet 990		From	i E/W ST	County LEA	
32.1	^{ide} 108967	0			Longitu 103.6	^{ide} 67469	948						NAD 83	
Last T	ake Poin	t (LTP)												
UL A	Section 16	Township 25S	Range 32E	Lot	Feet 100	From NOR		Feet 990		From EAS	-	Count	ty	
Latitu 32.1	ide 137433	1			Longitu 103.6	^{ide} 67463	326					NAD 83		
Is this	well the	defining v	vell for th	e Horiz	zontal Sp	pacing	Unit?		N					
Is this	well an	infill well?		Υ]									
	l is yes p ng Unit.	lease provi	ide API if	availab	ile, Opei	rator N	ame a	and v	vell n	umbei	for [Definiı	ng well fo	r Horizontal
API #)25-4872	.3												
_	rator Nai		1			Prope	erty N	ame:						Well Number
DEV L.P.	ON ENEF	RGY PRODI	JCTION C	OMPA	NY,	СО	TTON	DRA	W UI	VIT				648H

KZ 06/29/2018





SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO LOCATION VERIFICATION MAP



DEVON FNEDCY DRODUCTION CON

DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT 647H

LOCATED 325 FT. FROM THE NORTH LINE

AND 685 FT. FROM THE EAST LINE OF

SECTION 28, TOWNSHIP 25 SOUTH,

RANGE 32 EAST, N.M.P.M.

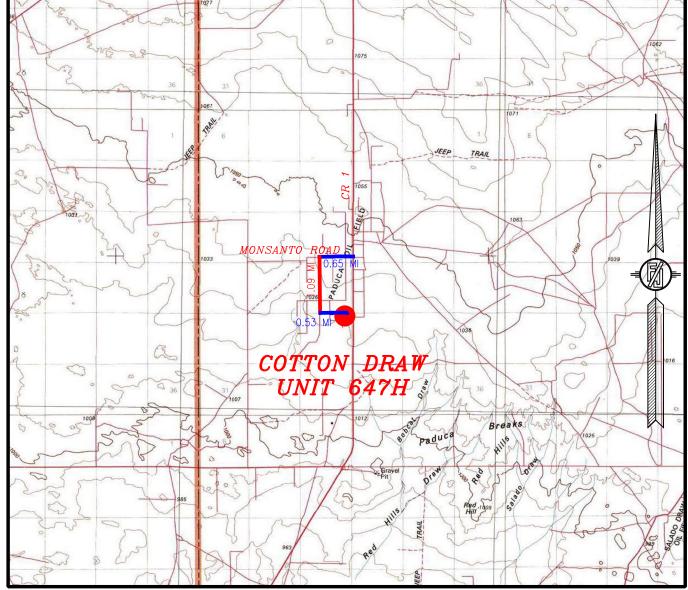
LEA COUNTY, STATE OF NEW MEXICO

LAND STATUS: BLM

SEPTEMBER 13, 2022

SURVEY NO. 6232B

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO VICINITY MAP



DISTANCES IN MILES

FROM THE INTERSECTION OF CR 1 (ORLA) & MONSANTO ROAD GO WEST APPROX. 0.65 MILE, GO SOUTH ON 20' CALICHE LEASE ROAD FOR APPROX. 1.09 MILES, FOLLOW ROAD SURVEY EAST APPROX. 0.53 OF A MILE TO NORTHEAST PAD CORNER FOR THIS LOCATION.

DIRECTIONS TO LOCATION

NOT TO SCALE

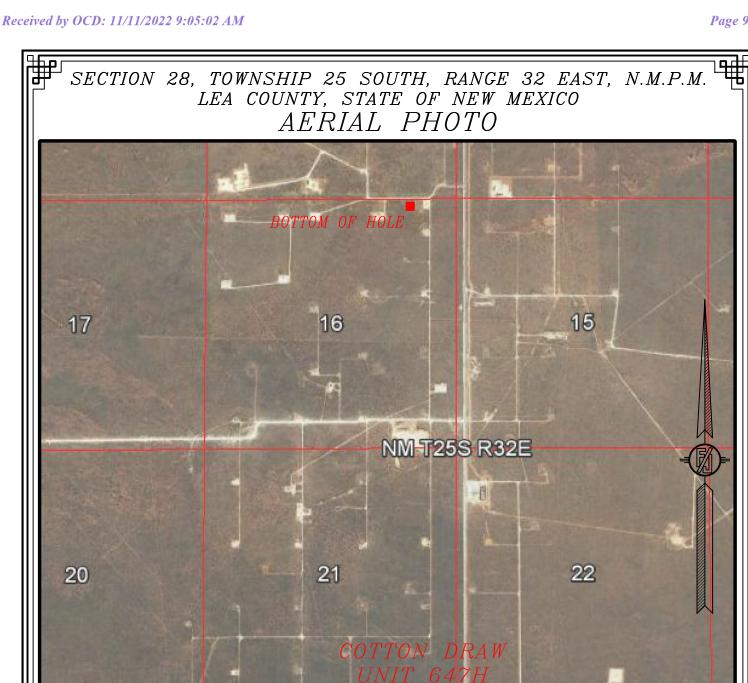
DEVON ENERGY PRODUCTION COMPANY, L.P.

COTTON DRAW UNIT 647H

LOCATED 325 FT. FROM THE NORTH LINE AND 685 FT. FROM THE EAST LINE OF SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

SEPTEMBER 13, 2022

SURVEY NO. 6232B



NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017

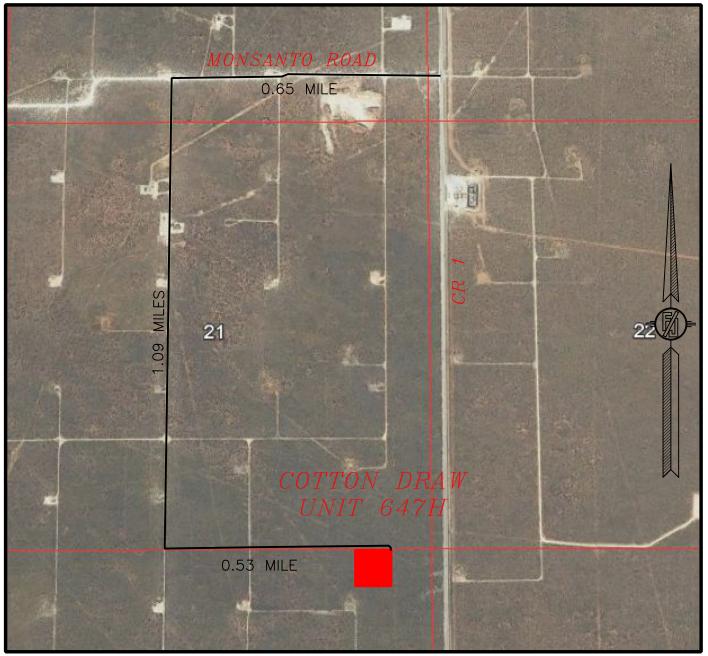
DEVON ENERGY PRODUCTION COMPANY, L.P. COTTON DRAW UNIT 647H

LOCATED 325 FT. FROM THE NORTH LINE AND 685 FT. FROM THE EAST LINE OF SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

SEPTEMBER 13, 2022

SURVEY NO. 6232B

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO
ACCESS AERIAL ROUTE MAP



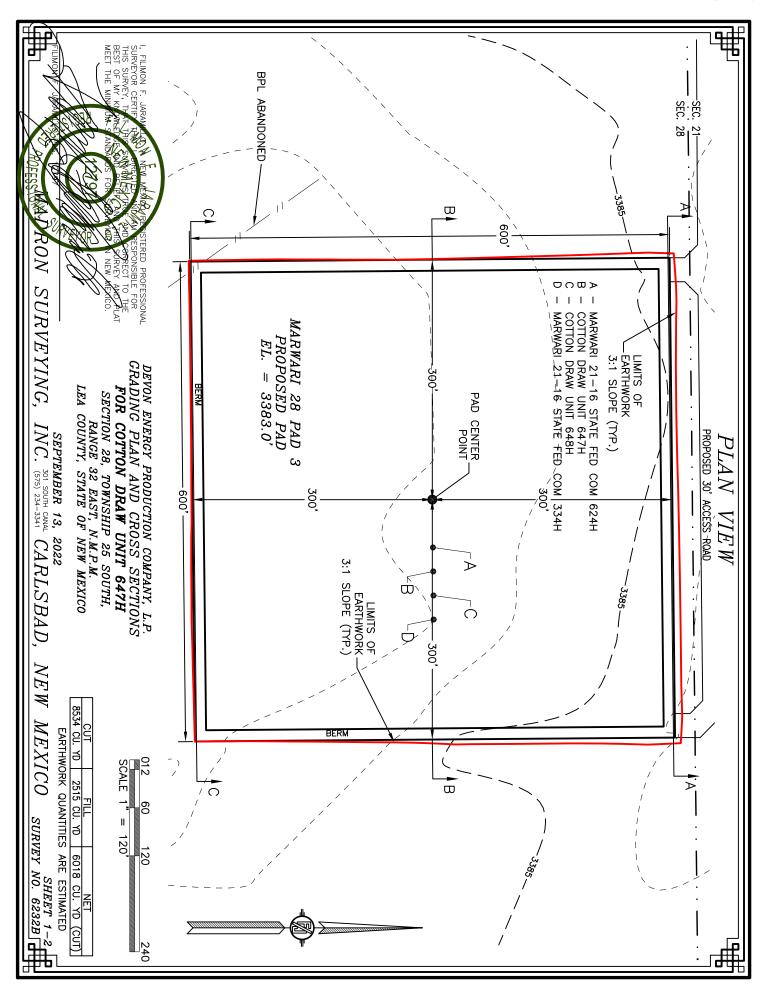
NOT TO SCALE AERIAL PHOTO: GOOGLE EARTH NOVEMBER 2017

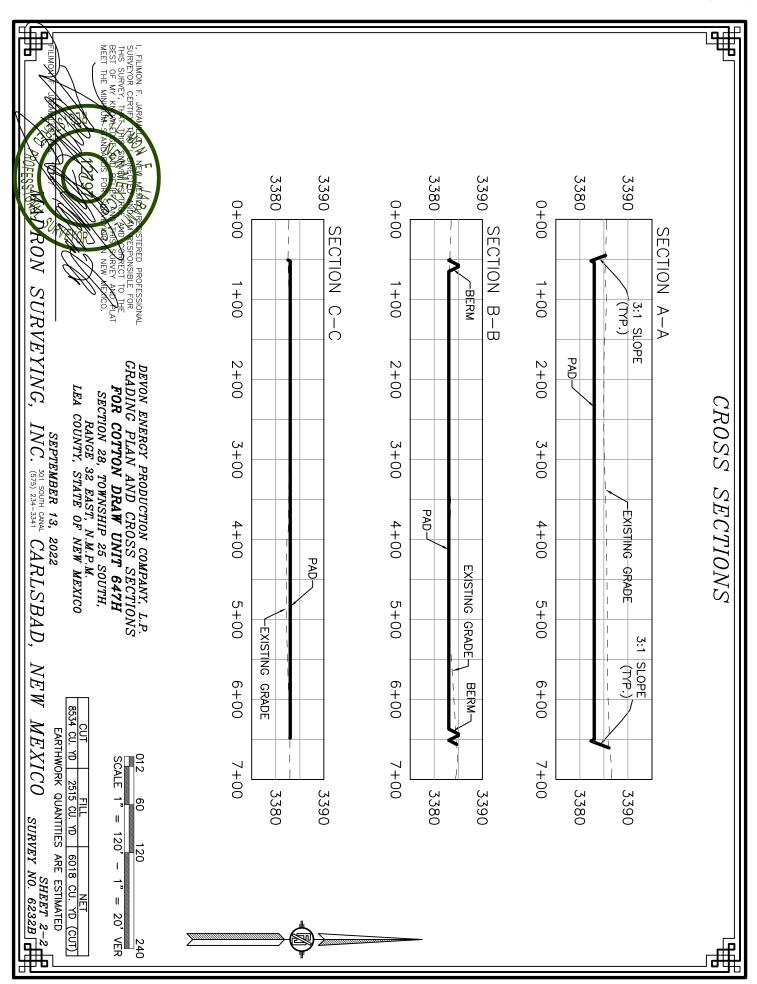
DEVON ENERGY PRODUCTION COMPANY, L.P. COTTON DRAW UNIT 647H

LOCATED 325 FT. FROM THE NORTH LINE AND 685 FT. FROM THE EAST LINE OF SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, STATE OF NEW MEXICO LAND STATUS: BLM

SEPTEMBER 13, 2022

SURVEY NO. 6232B





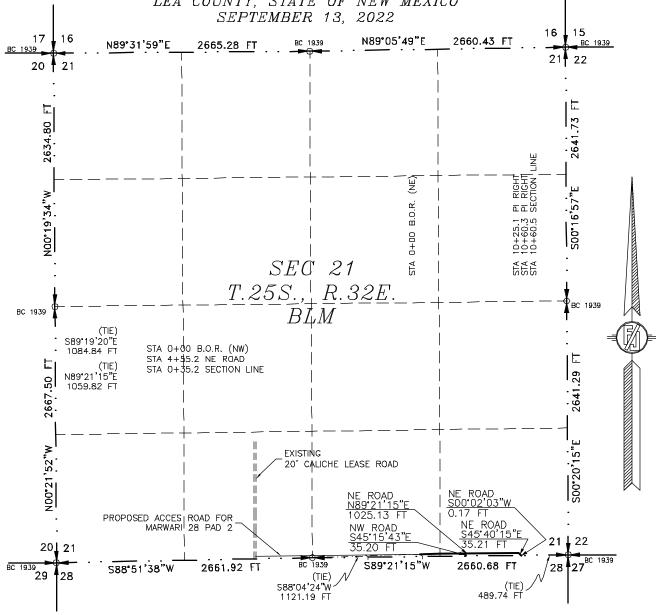
ACCESS ROAD TO THE MARWARI 28 PAD 3

(MARWARI 21-16 STATE FED COM 624H, 334H, & COTTON DRAW UNIT 647H, 648H)

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING

SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.
LEA COUNTY, STATE OF NEW MEXICO



SEE NEXT SHEET (2-4) 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: 1−4

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 15 THE STATE OF NEW MEXICO.

IN WINES WIFEPER THE SERTIFICATE IS EXECUTED AT CARLSBAD.

NEW MEXICO, THEN THE BAY OF SEPTEMBER 2022

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

SURVEY NO. 6232B

MADRON SURVEYING, INC. (575) 23 STATUS BAD, NEW MEXICO

ACCESS ROAD TO THE MARWARI 28 PAD 3 (MARWARI 21-16 STATE FED COM 624H, 334H, & COTTON DRAW UNIT 647H, 648H)

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING

SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

SEPTEMBER 13, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 21, 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:

NORTHEAST ACCESS ROAD

BEGINNING AT A POINT WITHIN THE SW/4 SE/4 OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTH QUARTER CORNER OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS S88'04'24"W, A DISTANCE OF 1121.19 FEET:

THENCE N89'21'15"E A DISTANCE OF 1025.13 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S45'40'15"E A DISTANCE OF 35.21 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;
THENCE S00'02'03"W A DISTANCE OF 0.17 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N89'21'15"E, A DISTANCE OF 489.74 FEET;

SAID STRIP OF LAND BEING 1060.51 FEET OR 64.27 RODS IN LENGTH, CONTAINING 0.730 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SW/4 SE/4 209.58 L.F. 12.70 RODS 0.144 ACRES SE/4 SE/4 850.93 L.F. 51.57 RODS 0.586 ACRES

NORTHWEST ACCESS ROAD

BEGINNING AT A POINT WITHIN THE SE/4 SE/4 OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS 589 19 20 E, A DISTANCE OF 1084.84 FEET:

THENCE S45'15'43"E A DISTANCE OF 35.20 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 21, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N89'21'15"E, A DISTANCE OF 1059.82 FEET;

SAID STRIP OF LAND BEING 35.20 FEET OR 2.13 RODS IN LENGTH, CONTAINING 0.024 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

SE/4 SE/4 35.20 L.F. 2.13 RODS 0.024 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: 2-4

MADRON SURVEYING, INC. 301 SOURCE SAD, NEW MEXICO

NEW M

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 THE STATE OF NEW MEXICO.

THUS CERTIFICATE IS EXECUTED AT CARLSBAD, DAY OF TEPTEMBER 2022

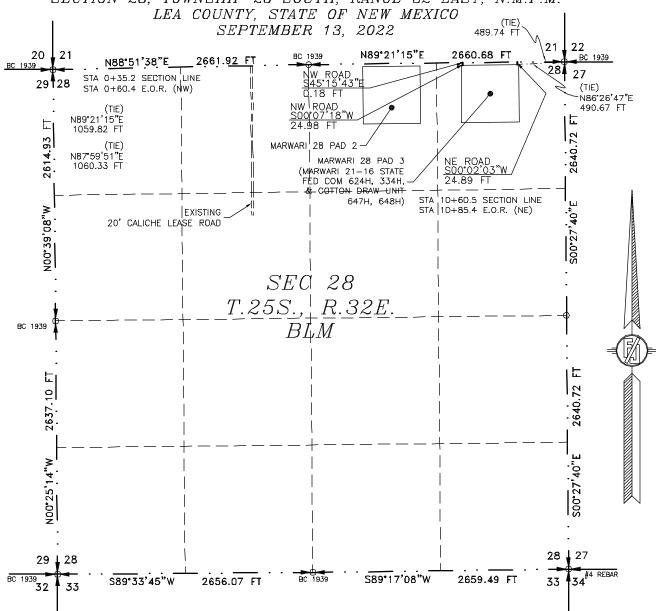
> MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 6232B

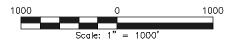
ACCESS ROAD TO THE MARWARI 28 PAD 3

(MARWARI 21-16 STATE FED COM 624H, 334H, & COTTON DRAW UNIT 647H, 648H)

DEVON ENERGY PRODUCTION COMPANY, L.P. CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.



SEE NEXT SHEET (4-4) 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: 3-4

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 SURVEYIN TE OF NEW MEXICO.

ERTIFICATE IS EXECUTED AT CARLSBAD, NEW N *2*022

> MADRON SURVEYING, INC. 7301 SOUTH CANAL (CARLSBAD, NEW MEXICO 88220 Phone (575) 234-3341

SURVEY NO. 6232B

MADRON SURVEYING, INC. 301 5. *NEW MEXICO*

ACCESS ROAD TO THE MARWARI 28 PAD 3 (MARWARI 21-16 STATE FED COM 624H, 334H, & COTTON DRAW UNIT 647H, 648H)

DEVON ENERGY PRODUCTION COMPANY, L.P.

CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING

SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M.

LEA COUNTY, STATE OF NEW MEXICO

SEPTEMBER 13, 2022

DESCRIPTION

A STRIP OF LAND 30 FEET WIDE CROSSING BUREAU OF LAND MANAGEMENT LAND IN SECTION 28, 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:

NORTHEAST ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N89°21'15"E, A DISTANCE OF 489.74 FEET;

THENCE S00°02'03"W A DISTANCE OF 24.89 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N86'26'47"E, A DISTANCE OF 490.67 FEET;

SAID STRIP OF LAND BEING 24.89 FEET OR 1.51 RODS IN LENGTH, CONTAINING 0.017 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 24.89 L.F. 1.51 RODS 0.017 ACRES

NORTHWEST ACCESS ROAD

BEGINNING AT A POINT WITHIN THE NE/4 NE/4 OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M., WHENCE THE NORTHEAST CORNER OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N89*21'15"E, A DISTANCE OF 1059.82 FEET;

THENCE \$45°15'43"E A DISTANCE OF 0.18 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE SOO"07'18"W A DISTANCE OF 24.98 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE NORTHEAST CORNER OF SAID SECTION 28, TOWNSHIP 25 SOUTH, RANGE 32 EAST, N.M.P.M. BEARS N87'59'51"E, A DISTANCE OF 1060.33 FEET;

SAID STRIP OF LAND BEING 25.16 FEET OR 1.52 RODS IN LENGTH, CONTAINING 0.017 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 NE/4 25.16 L.F. 1.52 RODS 0.017 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: 4-4

MADRON SURVEYING, INC. (575) 23 S44 OF AND BAD, NEW MEXICO

NEW M

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 AS THE STATE OF NEW MEXICO.

MUSTED OF THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

*2*022

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

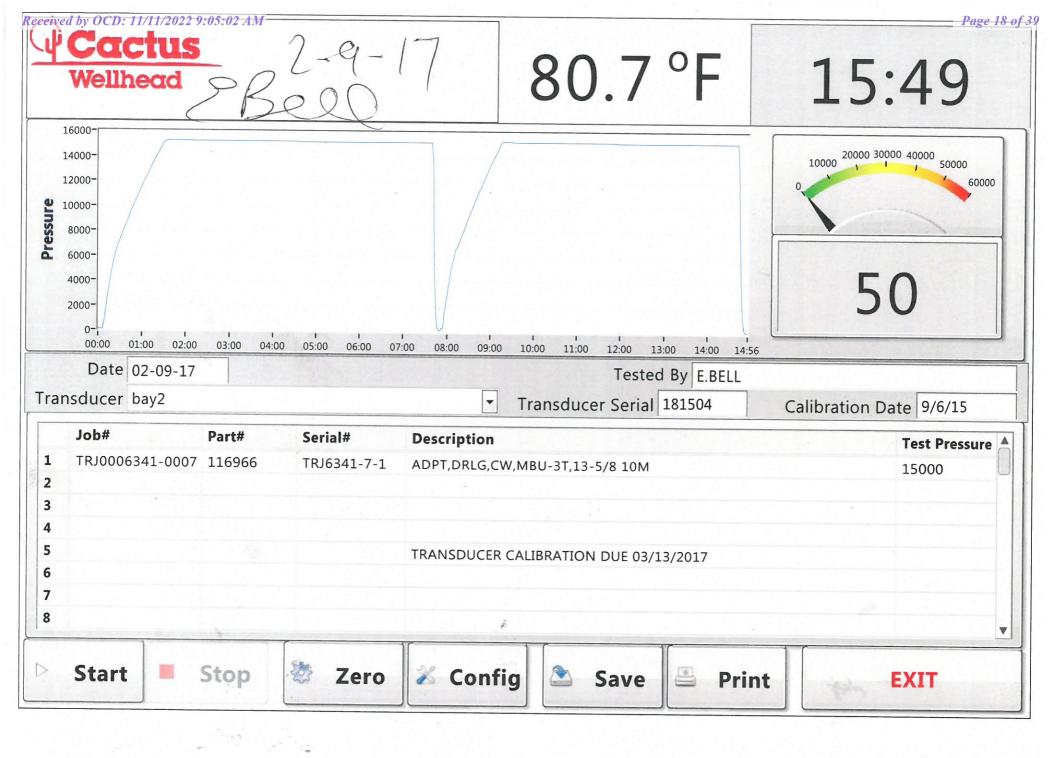
SURVEY NO. 6232B

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of the 10M BOPE to 5M for 10 minutes. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections and no deeper than the Bone Springs Formation where 5M BOP tests are required. The initial BOP test will follow OOGO2.III.A.2.i, and subsequent tests following a skid will only test connections that are broken. The annular preventer will be tested to 100% working pressure. This variance will meet or exceed OOGO2.III.A.2.i per the following: Devon Energy will perform a full BOP test per OOGO2.III.A.2.i before drilling out of the intermediate casing string(s) and starting the production hole, before starting any hole section that requires a 10M test, before the expiration of the allotted 14-days for 5M intermediate batch drilling or when the drilling rig is fully mobilized to a new well pad, whichever is sooner. We will utilize a 200' TVD tolerance between intermediate shoes as the cutoff for a full BOP test. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. Break test will be a 14 day interval and not a 30 day full BOPE test interval. If in the event break testing is not utilized, then a full BOPE test would be conducted.

- 1. Well Control Response:
- 1. Primary barrier remains fluid
- 2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:
 - a) Annular first
 - b) If annular were to not hold, Upper pipe rams second (which were tested on the skid BOP test)
 - c) If the Upper Pipe Rams were to not hold, Lower Pipe Rams would be third



Cotton Draw Unit 647H

1. Geologic Formations

TVD of target	12065	Pilot hole depth	N/A
MD at TD:	22371	Deepest expected fresh water	

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/Target Zone?	Hazards*
Rustler	995		
Salt	1380		
Base of Salt	4625		
Delaware	4625		
Cherry Canyon	5580		
Brushy Canyon	7170		
1st Bone Spring Lime	8680		
Bone Spring 1st	9665		
Bone Spring 2nd	10310		
3rd Bone Spring Lime	10805		
Bone Spring 3rd	11415		
Wolfcamp	11910		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	40 1/2	J-55	ВТС	0	1020	0	1020
9 7/8	8 5/8	32	P110	Sprint FJ	0	11415	0	11415
7 7/8	5 1/2	20	P110	ВТС	0	22371	0	12065

[•] 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)

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy canyon to surface.

If necessary, a top out consisting of 500 sacks of Class C cement will be executed as a contingency.

Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	411	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	503	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIIt I	493 7170		13.2	1.44	Tail: Class H / C + additives
Production	117	9537.131	9	3.27	Lead: Class H /C + additives
Froduction	1434	11537.13	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:						
			Anı	nular	X	50% of rated working pressure						
Int 1	13-5/8"	5M	Bline	l Ram	X							
IIIt I	13-3/6	3101	Pipe	Ram		5M						
			Doub	le Ram	X	3101						
			Other*									
		10M	Annul	ar (5M)	X	100% of rated working pressure						
Production	13-5/8"		Blind Ram		X							
Production			TOW	10101	10101	10101	10101	TOW	Pipe	Ram		10M
			Double Ram		X	TOWI						
			Other*									
			Annul	ar (5M)								
			Blind Ram									
			Pipe Ram									
			Double Ram									
	Other*											
N A variance is requested for	the use of a	diverter or	n the surface	casing. See	attached for s	chematic.						
Y A variance is requested to a	run a 5 M a	nnular on a	10M system									

5. Mud Program (Three String Design)

Section	Туре	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, 6	Coring and Testing
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the
X	Completion Report and shumitted 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 l	ogs 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	Specfiy what type and where?
BH pressure at deepest TVD	6588
Abnormal temperature	No

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

Hydrogren 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

1 4	1125 is present
Y	H2S plan attached.

Cotton Draw Unit 647H

8. Other facets of operation

Is this a walking operation? Potentially

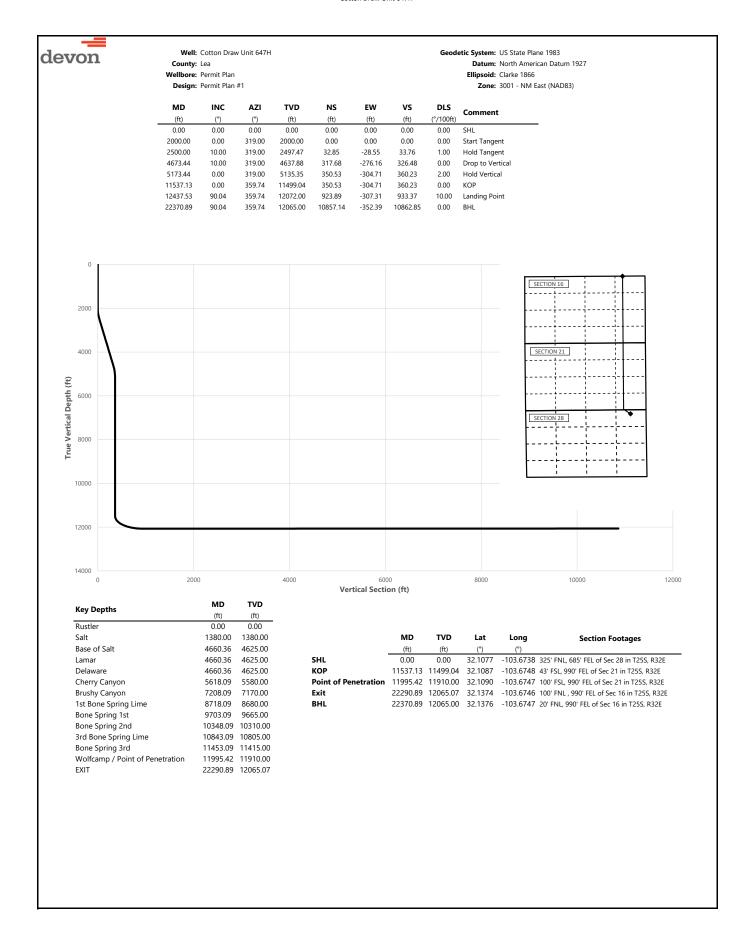
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and 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 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 nippled 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.

Attachme	nts
X	Directional Plan
	Other, describe





County: Lea
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)

	Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	319.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	319.00	200.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	319.00 319.00	300.00 400.00	0.00	0.00 0.00	0.00	0.00	
500.00	0.00	319.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	319.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	319.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	319.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	319.00	900.00	0.00	0.00	0.00	0.00	
995.00	0.00	319.00	995.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	319.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	319.00	1100.00	0.00	0.00	0.00	0.00	
1200.00 1300.00	0.00	319.00 319.00	1200.00 1300.00	0.00	0.00 0.00	0.00	0.00	
1380.00	0.00	319.00	1380.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	319.00	1400.00	0.00	0.00	0.00	0.00	Sait
1500.00	0.00	319.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	319.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	319.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	319.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	319.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	319.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	319.00	2099.98	1.32	-1.14	1.35	2.00	
2200.00 2300.00	4.00 6.00	319.00 319.00	2199.84 2299.45	5.27 11.84	-4.58 -10.30	5.41 12.17	2.00 2.00	
2400.00	8.00	319.00	2398.70	21.04	-10.30	21.62	2.00	
2500.00	10.00	319.00	2497.47	32.85	-28.55	33.76	1.00	Hold Tangent
2600.00	10.00	319.00	2595.95	45.95	-39.95	47.22	0.00	
2700.00	10.00	319.00	2694.43	59.06	-51.34	60.69	0.00	
2800.00	10.00	319.00	2792.91	72.16	-62.73	74.16	0.00	
2900.00	10.00	319.00	2891.39	85.27	-74.12	87.63	0.00	
3000.00	10.00	319.00	2989.87	98.37	-85.52	101.10	0.00	
3100.00	10.00	319.00	3088.35	111.48	-96.91	114.56	0.00	
3200.00 3300.00	10.00 10.00	319.00 319.00	3186.83 3285.31	124.58 137.69	-108.30 -119.69	128.03 141.50	0.00	
3400.00	10.00	319.00	3383.79	150.79	-131.08	154.97	0.00	
3500.00	10.00	319.00	3482.27	163.90	-142.48	168.44	0.00	
3600.00	10.00	319.00	3580.75	177.01	-153.87	181.90	0.00	
3700.00	10.00	319.00	3679.23	190.11	-165.26	195.37	0.00	
3800.00	10.00	319.00	3777.72	203.22	-176.65	208.84	0.00	
3900.00	10.00	319.00	3876.20	216.32	-188.05	222.31	0.00	
4000.00	10.00	319.00	3974.68	229.43	-199.44	235.78	0.00	
4100.00	10.00	319.00	4073.16	242.53	-210.83	249.24	0.00	
4200.00 4300.00	10.00 10.00	319.00 319.00	4171.64 4270.12	255.64 268.74	-222.22 -233.62	262.71 276.18	0.00	
4400.00	10.00	319.00	4368.60	281.85	-235.02	289.65	0.00	
4500.00	10.00	319.00	4467.08	294.95	-256.40	303.12	0.00	
4600.00	10.00	319.00	4565.56	308.06	-267.79	316.58	0.00	
4660.36	10.00	319.00	4625.00	315.97	-274.67	324.71	0.00	Base of Salt, Lamar, Delaware
4673.44	10.00	319.00	4637.88	317.68	-276.16	326.48	0.00	Drop to Vertical
4700.00	9.47	319.00	4664.06	321.07	-279.11	329.96	2.00	
4800.00	7.47	319.00	4762.97	332.19	-288.77	341.38	2.00	
4900.00 5000.00	5.47	319.00	4862.33	340.69	-296.16	350.12	2.00	
5100.00	3.47 1.47	319.00 319.00	4962.02 5061.92	346.57 349.82	-301.27 -304.09	356.16 359.50	2.00 2.00	
5173.44	0.00	319.00	5135.35	350.53	-304.09	360.23	2.00	Hold Vertical
5200.00	0.00	359.74	5161.91	350.53	-304.71	360.23	0.00	
5300.00	0.00	359.74	5261.91	350.53	-304.71	360.23	0.00	
5400.00	0.00	359.74	5361.91	350.53	-304.71	360.23	0.00	
5500.00	0.00	359.74	5461.91	350.53	-304.71	360.23	0.00	
5600.00	0.00	359.74	5561.91	350.53	-304.71	360.23	0.00	
5618.09	0.00	359.74	5580.00	350.53	-304.71	360.23	0.00	Cherry Canyon
5700.00	0.00	359.74	5661.91	350.53	-304.71	360.23	0.00	
5800.00 5900.00	0.00	359.74 359.74	5761.91 5861.91	350.53 350.53	-304.71 -304.71	360.23 360.23	0.00	
6000.00	0.00	359.74 359.74	5961.91	350.53	-304.71	360.23	0.00	
6100.00	0.00	359.74	6061.91	350.53	-304.71	360.23	0.00	
6200.00	0.00	359.74	6161.91	350.53	-304.71	360.23	0.00	
6300.00	0.00	359.74	6261.91	350.53	-304.71	360.23	0.00	



County: Lea
Wellbore: Permit Plan
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	Design.	Permit Plan						
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6400.00	0.00	359.74	6361.91	350.53	-304.71	360.23	0.00	
6500.00	0.00	359.74	6461.91	350.53	-304.71	360.23	0.00	
6600.00	0.00	359.74	6561.91	350.53	-304.71	360.23	0.00	
6700.00	0.00	359.74	6661.91	350.53	-304.71	360.23	0.00	
6800.00	0.00	359.74	6761.91	350.53	-304.71	360.23	0.00	
6900.00	0.00	359.74	6861.91	350.53	-304.71	360.23	0.00	
7000.00	0.00	359.74	6961.91	350.53	-304.71	360.23	0.00	
7100.00	0.00	359.74	7061.91	350.53	-304.71	360.23	0.00	
7200.00	0.00	359.74	7161.91	350.53	-304.71	360.23	0.00	De de Conse
7208.09	0.00	359.74	7170.00	350.53	-304.71	360.23	0.00	Brushy Canyon
7300.00	0.00	359.74	7261.91	350.53	-304.71	360.23	0.00	
7400.00	0.00	359.74	7361.91	350.53	-304.71	360.23	0.00	
7500.00	0.00	359.74	7461.91	350.53	-304.71	360.23	0.00	
7600.00	0.00	359.74	7561.91	350.53	-304.71	360.23	0.00	
7700.00	0.00	359.74	7661.91	350.53	-304.71	360.23	0.00	
7800.00	0.00	359.74	7761.91	350.53	-304.71	360.23	0.00	
7900.00	0.00	359.74	7861.91	350.53	-304.71	360.23	0.00	
8000.00	0.00	359.74	7961.91	350.53	-304.71	360.23	0.00	
8100.00	0.00	359.74	8061.91	350.53	-304.71	360.23	0.00	
8200.00	0.00	359.74	8161.91	350.53	-304.71	360.23	0.00	
8300.00	0.00	359.74	8261.91	350.53	-304.71	360.23	0.00	
8400.00	0.00	359.74	8361.91	350.53	-304.71	360.23	0.00	
8500.00	0.00	359.74	8461.91	350.53	-304.71	360.23	0.00	
8600.00	0.00	359.74	8561.91	350.53	-304.71	360.23	0.00	
8700.00	0.00	359.74	8661.91	350.53	-304.71	360.23	0.00	
8718.09	0.00	359.74	8680.00	350.53	-304.71	360.23	0.00	1st Bone Spring Lime
8800.00	0.00	359.74	8761.91	350.53	-304.71	360.23	0.00	13t Bone Spring Line
8900.00	0.00	359.74	8861.91	350.53	-304.71	360.23	0.00	
9000.00	0.00	359.74		350.53	-304.71	360.23	0.00	
			8961.91 9061.91					
9100.00	0.00	359.74		350.53	-304.71	360.23	0.00	
9200.00	0.00	359.74	9161.91	350.53	-304.71	360.23	0.00	
9300.00	0.00	359.74	9261.91	350.53	-304.71	360.23	0.00	
9400.00	0.00	359.74	9361.91	350.53	-304.71	360.23	0.00	
9500.00	0.00	359.74	9461.91	350.53	-304.71	360.23	0.00	
9600.00	0.00	359.74	9561.91	350.53	-304.71	360.23	0.00	
9700.00	0.00	359.74	9661.91	350.53	-304.71	360.23	0.00	
9703.09	0.00	359.74	9665.00	350.53	-304.71	360.23	0.00	Bone Spring 1st
9800.00	0.00	359.74	9761.91	350.53	-304.71	360.23	0.00	
9900.00	0.00	359.74	9861.91	350.53	-304.71	360.23	0.00	
10000.00	0.00	359.74	9961.91	350.53	-304.71	360.23	0.00	
10100.00	0.00	359.74	10061.91	350.53	-304.71	360.23	0.00	
10200.00	0.00	359.74	10161.91	350.53	-304.71	360.23	0.00	
10300.00	0.00	359.74	10261.91	350.53	-304.71	360.23	0.00	
10348.09	0.00	359.74	10310.00	350.53	-304.71	360.23	0.00	Bone Spring 2nd
10400.00	0.00	359.74	10361.91	350.53	-304.71	360.23	0.00	pg
10500.00	0.00	359.74	10461.91	350.53	-304.71	360.23	0.00	
10600.00	0.00	359.74	10561.91	350.53	-304.71	360.23	0.00	
10700.00	0.00	359.74	10661.91	350.53	-304.71	360.23	0.00	
10700.00	0.00	359.74	10761.91	350.53	-304.71	360.23	0.00	
10800.00							0.00	3rd Rone Spring Lime
	0.00	359.74	10805.00	350.53	-304.71	360.23		3rd Bone Spring Lime
10900.00	0.00	359.74	10861.91	350.53	-304.71	360.23	0.00	
11000.00	0.00	359.74	10961.91	350.53	-304.71	360.23	0.00	
11100.00	0.00	359.74	11061.91	350.53	-304.71	360.23	0.00	
11200.00	0.00	359.74	11161.91	350.53	-304.71	360.23	0.00	
11300.00	0.00	359.74	11261.91	350.53	-304.71	360.23	0.00	
11400.00	0.00	359.74	11361.91	350.53	-304.71	360.23	0.00	
11453.09	0.00	359.74	11415.00	350.53	-304.71	360.23	0.00	Bone Spring 3rd
11500.00	0.00	359.74	11461.91	350.53	-304.71	360.23	0.00	
11537.13	0.00	359.74	11499.04	350.53	-304.71	360.23	0.00	KOP
11600.00	6.29	359.74	11561.79	353.98	-304.73	363.68	10.00	
11700.00	16.29	359.74	11659.73	373.52	-304.82	383.22	10.00	
11800.00	26.29	359.74	11752.79	409.78	-304.98	419.46	10.00	
11900.00	36.29	359.74	11838.14	461.65	-305.22	471.31	10.00	
11995.42	45.83	359.74	11910.00	524.25	-305.50	533.88	10.00	Wolfcamp / Point of Penetration
12000.00	46.29	359.74	11913.18	527.55	-305.52	537.18	10.00	p /
12100.00	56.29	359.74	11975.64	605.48	-305.87	615.08	10.00	
12200.00	66.29	359.74	12023.63	693.07	-306.27	702.64	10.00	
12300.00	76.29	359.74	12025.63	787.66	-306.27	702.04	10.00	
12400.00	86.29	359.74	12033.67	886.38	-306.70	895.88	10.00	
12400.00	00.23	333.14						
12437.53	90.04	359.74	12072.00	923.89	-307.31	933.37	10.00	Landing Point



County: Lea
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)

	Design:	Permit Plan	1#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
12500.00	90.04	359.74	12071.96	986.35	-307.60	995.81	0.00	
12600.00	90.04	359.74	12071.89	1086.35	-308.05	1095.77	0.00	
12700.00	90.04	359.74	12071.82	1186.35	-308.51	1195.73	0.00	
12800.00	90.04	359.74	12071.75	1286.35	-308.96	1295.69	0.00	
12900.00	90.04	359.74	12071.67	1386.35	-309.42	1395.66	0.00	
13000.00	90.04	359.74	12071.60	1486.35	-309.87	1495.62	0.00	
13100.00	90.04	359.74	12071.53	1586.35	-310.32	1595.58	0.00	
13200.00	90.04	359.74	12071.46	1686.34	-310.78	1695.54	0.00	
13300.00	90.04	359.74	12071.39	1786.34	-311.23	1795.50	0.00	
13400.00	90.04	359.74	12071.32	1886.34	-311.69	1895.46	0.00	
13500.00	90.04	359.74	12071.25	1986.34	-312.14	1995.42	0.00	
13600.00	90.04	359.74	12071.18	2086.34	-312.60	2095.38	0.00	
13700.00 13800.00	90.04	359.74 359.74	12071.11	2186.34	-313.05	2195.34	0.00	
13900.00	90.04 90.04	359.74	12071.04 12070.97	2286.34 2386.34	-313.50 -313.96	2295.31 2395.27	0.00	
14000.00	90.04	359.74	12070.97	2486.34	-313.90	2495.23	0.00	
14100.00	90.04	359.74	12070.30	2586.34	-314.87	2595.19	0.00	
14200.00	90.04	359.74	12070.76	2686.33	-315.32	2695.15	0.00	
14300.00	90.04	359.74	12070.69	2786.33	-315.78	2795.11	0.00	
14400.00	90.04	359.74	12070.62	2886.33	-316.23	2895.07	0.00	
14500.00	90.04	359.74	12070.55	2986.33	-316.68	2995.03	0.00	
14600.00	90.04	359.74	12070.48	3086.33	-317.14	3094.99	0.00	
14700.00	90.04	359.74	12070.41	3186.33	-317.59	3194.95	0.00	
14800.00	90.04	359.74	12070.34	3286.33	-318.05	3294.92	0.00	
14900.00	90.04	359.74	12070.27	3386.33	-318.50	3394.88	0.00	
15000.00	90.04	359.74	12070.20	3486.33	-318.96	3494.84	0.00	
15100.00	90.04	359.74	12070.13	3586.32	-319.41	3594.80	0.00	
15200.00	90.04	359.74	12070.06	3686.32	-319.86	3694.76	0.00	
15300.00	90.04	359.74	12069.99	3786.32	-320.32	3794.72	0.00	
15400.00	90.04	359.74	12069.92	3886.32	-320.77	3894.68	0.00	
15500.00	90.04	359.74	12069.85	3986.32	-321.23	3994.64	0.00	
15600.00 15700.00	90.04 90.04	359.74 359.74	12069.78 12069.71	4086.32 4186.32	-321.68 -322.14	4094.60 4194.57	0.00	
15800.00	90.04	359.74	12069.63	4286.32	-322.14	4294.53	0.00	
15900.00	90.04	359.74	12069.56	4386.32	-323.04	4394.49	0.00	
16000.00	90.04	359.74	12069.49	4486.32	-323.50	4494.45	0.00	
16100.00	90.04	359.74	12069.42	4586.31	-323.95	4594.41	0.00	
16200.00	90.04	359.74	12069.35	4686.31	-324.41	4694.37	0.00	
16300.00	90.04	359.74	12069.28	4786.31	-324.86	4794.33	0.00	
16400.00	90.04	359.74	12069.21	4886.31	-325.32	4894.29	0.00	
16500.00	90.04	359.74	12069.14	4986.31	-325.77	4994.25	0.00	
16600.00	90.04	359.74	12069.07	5086.31	-326.22	5094.21	0.00	
16700.00	90.04	359.74	12069.00	5186.31	-326.68	5194.18	0.00	
16800.00	90.04	359.74	12068.93	5286.31	-327.13	5294.14	0.00	
16900.00	90.04	359.74	12068.86	5386.31	-327.59	5394.10	0.00	
17000.00	90.04	359.74	12068.79	5486.30	-328.04	5494.06	0.00	
17100.00	90.04	359.74	12068.72	5586.30	-328.50	5594.02	0.00	
17200.00	90.04	359.74	12068.65	5686.30 5786.30	-328.95	5693.98	0.00	
17300.00 17400.00	90.04 90.04	359.74 359.74	12068.58 12068.51	5786.30 5886.30	-329.40 -329.86	5793.94 5893.90	0.00	
17400.00	90.04	359.74 359.74	12068.31	5986.30	-329.86	5993.86	0.00	
17600.00	90.04	359.74	12068.44	6086.30	-330.51	6093.83	0.00	
17700.00	90.04	359.74	12068.30	6186.30	-331.22	6193.79	0.00	
17800.00	90.04	359.74	12068.23	6286.30	-331.68	6293.75	0.00	
17900.00	90.04	359.74	12068.16	6386.29	-332.13	6393.71	0.00	
18000.00	90.04	359.74	12068.09	6486.29	-332.59	6493.67	0.00	
18100.00	90.04	359.74	12068.02	6586.29	-333.04	6593.63	0.00	
18200.00	90.04	359.74	12067.95	6686.29	-333.49	6693.59	0.00	
18300.00	90.04	359.74	12067.88	6786.29	-333.95	6793.55	0.00	
18400.00	90.04	359.74	12067.81	6886.29	-334.40	6893.51	0.00	
18500.00	90.04	359.74	12067.74	6986.29	-334.86	6993.47	0.00	
18600.00	90.04	359.74	12067.67	7086.29	-335.31	7093.44	0.00	
18700.00	90.04	359.74	12067.60	7186.29	-335.77	7193.40	0.00	
18800.00	90.04	359.74	12067.52	7286.29	-336.22	7293.36	0.00	
18900.00	90.04	359.74	12067.45	7386.28	-336.67	7393.32	0.00	
19000.00	90.04	359.74	12067.38	7486.28	-337.13	7493.28	0.00	
19100.00	90.04	359.74	12067.31	7586.28	-337.58	7593.24	0.00	
19200.00 19300.00	90.04 90.04	359.74 359.74	12067.24	7686.28 7786.28	-338.04 -338.49	7693.20 7793.16	0.00	
19300.00	90.04	359.74 359.74	12067.17 12067.10	7786.28 7886.28	-338.49 -338.95	7793.16 7893.12	0.00	
1 3700.00	50.04	555.14	12001.10	, 500.20	550.55	, 033.12	0.00	



County: Lea
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)	Comment
19500.00	90.04	359.74	12067.03	7986.28	-339.40	7993.09	0.00	
19600.00	90.04	359.74	12066.96	8086.28	-339.85	8093.05	0.00	
19700.00	90.04	359.74	12066.89	8186.28	-340.31	8193.01	0.00	
19800.00	90.04	359.74	12066.82	8286.27	-340.76	8292.97	0.00	
19900.00	90.04	359.74	12066.75	8386.27	-341.22	8392.93	0.00	
20000.00	90.04	359.74	12066.68	8486.27	-341.67	8492.89	0.00	
20100.00	90.04	359.74	12066.61	8586.27	-342.13	8592.85	0.00	
20200.00	90.04	359.74	12066.54	8686.27	-342.58	8692.81	0.00	
20300.00	90.04	359.74	12066.47	8786.27	-343.03	8792.77	0.00	
20400.00	90.04	359.74	12066.40	8886.27	-343.49	8892.73	0.00	
20500.00	90.04	359.74	12066.33	8986.27	-343.94	8992.70	0.00	
20600.00	90.04	359.74	12066.26	9086.27	-344.40	9092.66	0.00	
20700.00	90.04	359.74	12066.19	9186.27	-344.85	9192.62	0.00	
20800.00	90.04	359.74	12066.12	9286.26	-345.31	9292.58	0.00	
20900.00	90.04	359.74	12066.05	9386.26	-345.76	9392.54	0.00	
21000.00	90.04	359.74	12065.98	9486.26	-346.21	9492.50	0.00	
21100.00	90.04	359.74	12065.91	9586.26	-346.67	9592.46	0.00	
21200.00	90.04	359.74	12065.84	9686.26	-347.12	9692.42	0.00	
21300.00	90.04	359.74	12065.77	9786.26	-347.58	9792.38	0.00	
21400.00	90.04	359.74	12065.70	9886.26	-348.03	9892.34	0.00	
21500.00	90.04	359.74	12065.63	9986.26	-348.49	9992.31	0.00	
21600.00	90.04	359.74	12065.56	10086.26	-348.94	10092.27	0.00	
21700.00	90.04	359.74	12065.49	10186.25	-349.39	10192.23	0.00	
21800.00	90.04	359.74	12065.41	10286.25	-349.85	10292.19	0.00	
21900.00	90.04	359.74	12065.34	10386.25	-350.30	10392.15	0.00	
22000.00	90.04	359.74	12065.27	10486.25	-350.76	10492.11	0.00	
22100.00	90.04	359.74	12065.20	10586.25	-351.21	10592.07	0.00	
22200.00	90.04	359.74	12065.13	10686.25	-351.67	10692.03	0.00	
22290.89	90.04	359.74	12065.07	10777.14	-352.08	10782.89	0.00	EXIT
22300.00	90.04	359.74	12065.06	10786.25	-352.12	10791.99	0.00	
22370.89	90.04	359.74	12065.00	10857.14	-352.39	10862.85	0.00	BHL

Cotton Draw Unit 647H

10 3/4	SU	ırface csg in a	13 1/2	inch hole.		Design I	Factors -			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	40.50		j 55	btc	16.88	3.67	0.5	920	8	0.84	6.94	37,260
"B"				btc				0				0
	w/8.4	#/g mud, 30min Sfc Csg Test psig	: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	920	_			37,260
Comparison o	f Proposed to	Minimum Required Cement	Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
13 1/2	0.3637	411	592	335	77	9.00	3715	5M				0.88
Burst Frac Grad	dient(s) for Seg	ment(s) A, B = , b All > 0.70	, OK.									

8 5/8	cas	sing inside the	10 3/4			Design	Factors -		•	Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00	F	110	vam sprint fj	2.04	0.64	1.09	11,415	1	1.82	1.08	365,280
"B"								0				0
	w/8.4	#/g mud, 30min Sfc Csg Test psig	: 24				Totals:	11,415				365,280
		The cement volu	ume(s) are inter	nded to achieve a top of	0	ft from su	urface or a	920				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
9 7/8	0.1261	493	710	1457	-51	10.50	3927	5M				0.61
D V Tool(s):			7170				sum of sx	Σ CuFt				Σ%excess
t by stage %:		33	26				996	1867				28
Class 'C' tail cm	nt yld > 1.35											

Tail cmt 5 1/2	cas	ing inside the	8 5/8			Design Fac	ctors		-	Prod 1		
Segment	#/ft	Grade	,	Coupling	Body	Collapse	Burst	Length	B@s	а-В	a-C	Weight
"A"	20.00		p 110	btc	2.66	1.68	1.92	22,371	2	3.22	2.82	447,420
"B"								0				0
	w/8.4	#/g mud, 30min Sfc Csg Test psi	g: 2,654				Totals:	22,371				447,420
		The cement vol	lume(s) are inter	nded to achieve a top of	11215	ft from su	rface or a	200				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
7 7/8	0.1733	1551	2448	1934	27	10.50						0.91
Class 'C' tail cm	nt yld > 1.35											

0				<u>Design Factors</u>					<choose casing=""></choose>			
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
	w/8.4#/g	mud, 30min Sfc Csg Test	osig:				Totals:	0				0
		Cmt vol ca	alc below includes th	is csg, TOC intended	#N/A	ft from su	rface or a	#N/A				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A			Capitan Reef est	top XXXX.								

Carlsbad Field Office 10/28/2022

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
LOCATION:
COUNTY:
Devon Energy Production Company LP
NMLC061869
Section 28, T.25 S., R.32 E., NMPM
Lea County, New Mexico

WELL NAME & NO.: Cotton Draw Unit 647H
SURFACE HOLE FOOTAGE: 325'/N & 685'/E
BOTTOM HOLE FOOTAGE 20'/N & 990'/E
ATS/API ID: 3002549135
Sundry ID: 2695761

COA

H2S	© Yes	□ No	
Potash	None	☐ Secretary	□ R-111-P
Cave/Karst Potential	• Low	☐ Medium	☐ High
Cave/Karst Potential	Critical		
Variance	None	Flex Hose	Other
Wellhead	Conventional	☐ Multibowl	Both
Wellhead Variance	☐ Diverter		
Other	□4 String	☐ Capitan Reef	□WIPP
Other	▼ Fluid Filled	☐ Pilot Hole	☐ Open Annulus
Cementing			
Special Requirements	☐ Water Disposal	□ СОМ	☑ Unit
Special Requirements	☑ Break Testing	☐ Offline	
Variance		Cementing	

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Jennings Pool** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

1. The 10-3/4 inch surface casing shall be set at approximately 920 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
- b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.

2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the Brushy Canyon at 7170' (493 sxs Class H/C+ additives).
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 503 sxs Class C)

Operator has proposed to pump down 10-3/4" X 8-5/8" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 8-5/8" casing to surface after the second stage BH to verify TOC.</u>

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Annular which shall be tested to 5000 (5M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.

- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests
- As a minimum, a full BOPE test shall be performed at 14-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not

- hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

LVO 10/28/2022

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CONDITIONS

Action 157998

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	157998
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkaut	z None	11/28/2022