Form 3160-3 (June 2015) UNITED STATES				FORM A OMB No Expires: Ja	o. 1004-0	0137
DEPARTMENT OF THE INTE BUREAU OF LAND MANAGE				5. Lease Serial No. NMNM120909		
APPLICATION FOR PERMIT TO DRILI		ENTER		6. If Indian, Allotee	or Tribe	Name
1a. Type of work:   Image: Drill	ΓER			7. If Unit or CA Agr	eement,	Name and No.
1b. Type of Well:       ✓       Oil Well       Gas Well       Other         1c. Type of Completion:       Hydraulic Fracturing       ✓       Single Z	Zone	Multiple Zone		8. Lease Name and VAN DOO DAH 33		
V Single 2		Wuttiple Zone			33168	
2. Name of Operator DEVON ENERGY PRODUCTION COMPANY LP [6137	-			9. API Well No.		-025-51619
3a. Address     3b. I       333 WEST SHERIDAN AVE, OKLAHOMA CITY, OK 7310     (405)		<i>(include area cod</i> 1	e)	10. Field and Pool, o WC-025 G-07 S25	or Exploi 3216D;I	ratory <b>[98270]</b> UPPER WOLFC
<ol> <li>Location of Well (Report location clearly and in accordance with an At surface SWSW / 200 FSL / 675 FWL / LAT 32.0801789 / At proposed prod. zone NWNW / 20 FNL / 990 FWL / LAT 32.</li> </ol>	LONG -10	)3.6864959	54866	11. Sec., T. R. M. or SEC 33/T25S/R32	Blk. and	
14. Distance in miles and direction from nearest town or post office*				12. County or Parish LEA	1	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any)       16. I	No of acres	in lease	17. Spaci 320.0	ng Unit dedicated to th	his well	
18. Distance from proposed location* 19. 1 to nearest well, drilling, completed, access	Proposed D 69 feet / 22			BIA Bond No. in file		
	Approximat 22/2022	te date work will	start*	23. Estimated durati 45 days	on	
24	. Attachm	ients				
<ul> <li>The following, completed in accordance with the requirements of Onst (as applicable)</li> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lan SUPO must be filed with the appropriate Forest Service Office).</li> </ul>	nds, the 5.6.	. Bond to cover th Item 20 above). . Operator certific . Such other site sp BLM.	e operatior	Hydraulic Fracturing m is unless covered by ar mation and/or plans as	n existing	g bond on file (see
25. Signature (Electronic Submission) Title		rinted/Typed) IARMS / Ph: (4	05) 235-3	611	Date 05/12/2	2022
Regulatory Compliance Professional	T					
Approved by (Signature) (Electronic Submission)		rinted/Typed) AYTON / Ph: (57	75) 234-5	959	Date 05/31/2	2023
Title Assistant Field Manager Lands & Minerals	Office Carlsbad	Field Office				
Application approval does not warrant or certify that the applicant hold applicant to conduct operations thereon. Conditions of approval, if any, are attached.			nose rights	in the subject lease where	hich wou	Ild entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make in of the United States any false, fictitious or fraudulent statements or represented by the United States and the United States a					iny depar	rtment or agency

## NGMP Rec 06/13/2023

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(Continued on page 2)





### **Additional Operator Remarks**

#### **Location of Well**

0. SHL: SWSW / 200 FSL / 675 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801789 / LONG: -103.6864959 ( TVD: 0 feet, MD: 0 feet ) PPP: SWSW / 183 FSL / 975 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.0946466 / LONG: -103.6854799 ( TVD: 12289 feet, MD: 17500 feet ) PPP: SWNW / 2517 FNL / 982 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0872248 / LONG: -103.6854805 ( TVD: 12300 feet, MD: 14800 feet ) PPP: SWSW / 100 FSL / 990 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799063 / LONG: -103.6854802 ( TVD: 11910 feet, MD: 11940 feet ) BHL: NWNW / 20 FNL / 990 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1085496 / LONG: -103.6854866 ( TVD: 12269 feet, MD: 22548 feet )

#### **BLM Point of Contact**

Name: Candy Vigil Title: LIE Phone: (575) 234-5982 Email: cvigil@blm.gov <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 <u>District II</u> 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 <u>District III</u> 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

30-025-	API Numbe 51619	r	98	<sup>2</sup> Pool Code 3270		<sup>3</sup> Pool Name WC-025 G-07 S253216D;UPPER WOLFCAMP					
<sup>4</sup> Property	Code				<sup>5</sup> Property	Name			<sup>6</sup> Well Number		
33168	5				731H						
<sup>7</sup> OGRID	No.					<sup>9</sup> Elevation					
6137		<b>DEVON ENERGY PRODUCTION COMPANY, L.P.</b>								3316.1	
					<sup>™</sup> Surface	e Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
Μ	33	25 S	25 S 32 E 200 SOUTH 675 W					WE	ST	LEA	
" Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
D	28	25 S	32 E		20	NORTH	990	WE	ST	LEA	

D	28	25 S	32 E		20	NORTH	990	WEST	LEA
<sup>12</sup> Dedicated Acre	es <sup>13</sup> Joint	or Infill	<sup>14</sup> Consolidation	1 Code			<sup>15</sup> Order No.		
320									

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.

	N88'51'\$8"E 2661.92 FT	N89'21'15"E 2660.68 FT	NE CORNER SEC. 28	<sup>17</sup> OPERATOR CERTIFICATION
NW CORNER SEC. 28 LAT. = 32.1085668'N	N_ RHU	N/4 CORNER SEC. 28 LAT. = 32.1086683'N	LAT. = 32.1087061'N	I hereby certify that the information contained herein is true and complete to the
LONG. = 103.6886834'W		LONG. = 103.6800892'W NMSP EAST (FT)	는 LONG. = 103.6714983′W 응, NMSP EAST (FT)	best of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT) N = 403829.87 E = 740937.30		N = 403882.79	Q N = 403912.78 R E = 746258.05	working interest or unleased mineral interest in the land including the proposed
	BOTTOM OF HOLE	E = 743598.11	μ μ	bottom hole location or has a right to drill this well at this location pursuant to
8°	LONG. = $103.6854866'W$		<sup>29</sup> 27	a contract with an owner of such a mineral or working interest, or to a
W/4 CORNER SEC. 28 8	NMSP EAST (FT) N = 403829,55	LAST TAKE POINT	B E/4 CORNER SEC. 28	voluntary pooling agreement or a compulsory pooling order heretofore entered
ĹAT. = 32.1013805′N <sup>∠</sup> LONG. = 103.6886378′W	E = 741927 16	100' FNL, 990' FWL Lat. = 32.1083298'N	LAT. = 32.1014481'N LONG. = 103.6714776'W	by the division.
NMSP EAST (FT) N = 401215.68		LONG. = 103.6854853'W	NMSP EAST (FT) N = 401272.46	Jenny Harms 5-12-2022
E = 740967.06 뇨	1	N = 403749.58 E = 741928.05	上 E = 746280.66	Date
2637.10		E = 741920.05	2640.46	JENNY HARMS
				Printed Name
SW CORNER SEC. 28 ≱ LAT. = 32.0941331'N ₹	LAT. = 32	R SEC. 28 .0941449'N	LAT. = 32.0941915'N	
LONG. = 103.6886262'W 😨 NMSP EAST (FT)	LONG. = 10 NMSP E	3.6800514W	EAT. = 52.0941913 N LONG. = 103.6714657'W	JENNY.HARMS@DVN.COM
N = 398579.22 E = 740986.41	N = 39 E = 74	8599.50	N = 398632.65 E = 746300.54	E-mail Address
L = 740300.41	S89'33'45"W 2656.07 FT	S8917'08"W 2659.49 FT	E = 740000.04	
E	NOTE:		E	<sup>18</sup> SURVEYOR CERTIFICATION
4.05		N DATUM OF 1983 (NAD83)	2639.99	I hereby certify that the well location shown on this plat was
264	LISTED NEW MEXICO STATE ARE GRID (NAD83). BASIS	OF BEARING_AND_DISTANCES	-	plotted from field notes of actual surveys made by me or under
37"W	USED ARE NEW MEXICO ST. MODIFIED TO THE SURFACE	ATE PLANE EAST COORDINATES VERTICAL DATUM NAVD88.	16'47"E	my supervision, and that the same is true and correct to the
			00	best of my belief.
W/4 CORNER SEC. 33 ⋛ LAT. = 32.0868667'N		FIRST TAKE POINT 100' FSL, 990' FWL	E/4 CORNER SEC. 33 LAT. = 32.0869362'N	FEBRUARY 23, 2022
LONG. = 103.6886534'W NMSP EAST (FT)	AN DOO DAH 33-28 FED CO.	LAT. = 32.0799063'N	LONG. = 103.6714764'W NMSP EAST (FT)	
N = 395935.76 EL	LEV. = 3316.1 AT. = 32.0801789'N (NAD83)	NMSP EAST (FT)	$ \Box N = 395993.26 $	Date of Survey
61:0 10	ONG. = 103.6864959W	N = 393409.60 E = 741991.76	C E = 740313.42	
N 25	IMSP_EAST_(FT) I = 393506.86		264	
SW CORNER SEC. 33 ₽ E	= 741676.58	S/4 CORNER SEC 33 LAT. = 32.0796430'N	≝ SE CORNER SEC. 33	
LONG. = 103.6886766'W		LONG. = 103.6800793'W	LONG. = 103.6714898'W	Signature and Seal of Longeronal Scargor:
NMSP EAST (FT) 2 N = 393301.16		N = 393323.87	MMSP EAST (FT) N = 393347.47	Certificate Number: ALATON JARAMALO, 2015 12797
E = 741002.34		E = 743665.13 S89'29'31"W 2661.05 F	E = 746325.50	PROFESSION NO. 9321
	Leonar II			

#### Received by OCD: 6/13/2023 8:25:48 AM

	weir Number
Operator Name: Property Name:	Well Number
API #	
Intent X As Drilled	

#### Kick Off Point (KOP)

UL	Section 33	Township 25S	Range 32E	Lot	Feet 53 FSL	From N/S	<sup>Feet</sup> 990 FWL	From E/W	County LEA
Latitu 32.	<sup>de</sup> 0796828	36			Longitude -103.6855	6363			NAD 83

#### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
M	33	25S	<b>32E</b>		<b>100</b>	SOUTH	<b>990</b>	WEST	LEA
Latitu	<sup>de</sup> 32.079	9063			Longitude <b>103</b>	8.6854802			NAD 83

#### Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
<b>D</b>	28	25S	<b>32E</b>		<b>100</b>	NORTH	<b>990</b>	WEST	LEA
Latitu		083298			Longitud	e 103.685	4853		NAD 83

Is this well the defining well for the Horizontal Spacing Unit? N

Is this well an infill well?

Y

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

Operator Name: Property Name: Well Number	API #		
	Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Received by	, OCD:	6/13/2023	8:25:48 AM
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		~					
	E	Stat nergy, Minerals a	e of New Mez nd Natural Res		ent	Subi Via	nit Electronically E-permitting
		1220 S	onservation D South St. Fran ta Fe, NM 87	cis Dr.			
	Ν	ATURAL GA	AS MANA	GEMENT PI	LAN		
This Natural Gas Manag						or a new o	r recompleted well
This Potter Gus Manag	sement i fan m					n a new o	recompleted wen.
			<u>1 – Plan D</u> fective May 25.				
I. Operator: DEVON E	NERGY PRODUC	CTION COMPANY, LP	OGRID:	6137	Da	te: <u>05</u> /	15 / 2022
II. Type: 🖾 Original 🛛	□ Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) NMAC	□ Other.	
If Other, please describe	: <u> </u>						
<b>III. Well(s):</b> Provide th be recompleted from a s					vells propose	d to be dr	illed or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipate Gas MCF/		Anticipated roduced Water BBL/D
See attachment							
IV. Central Delivery P	oint Name:	See attachment			[S	ee 19.15.2	27.9(D)(1) NMAC]
V. Anticipated Schedu proposed to be recomple					rell or set of v	vells prop	osed to be drilled or
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		ial Flow ck Date	First Production Date
See attachment							
VI. Separation Equipn	nent: 🛛 Attach	n a complete descrip	ption of how Op	erator will size sep	aration equip	ment to op	otimize gas capture.
VII. Operational Prac Subsection A through F		-	ription of the ac	tions Operator will	l take to com	ply with 1	he requirements of
VIII. Best Managemend during active and planned		-	te description of	f Operator's best n	nanagement p	practices to	o minimize venting

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#### TINATURAL GAS MANAGEMENT PLAN

#### Section 1 - Plan Description

Released

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR		FOOTAGES	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D	Central Delivery Point Name:
an Doo Dah 33-28 Fed Com 821H		33-25S-32E	795 FWL	200 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 831H		33-25S-32E	825 FWL	200 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 822H		33-25S-32E	1855 FWL	200 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 832H		33-25S-32E	1885 FWL	200 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 839H		33-25S-32E	1915 FWL	200 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 823H		33-25S-32E	2486 FEL	180 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 833H		33-25S-32E	2456 FEL	180 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 830H		33-25S-32E	2426 FEL	180 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 824H		33-25S-32E	911 FEL	177 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 834H		33-25S-32E	881 FEL	177 FSL	(+/-)528bopd	(+/-)7968mcfd	(+/-)4567bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 711H		33-25S-32E	615 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
/an Doo Dah 33-28 Fed Com 621H		33-25S-32E	645 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
/an Doo Dah 33-28 Fed Com 731H		33-25S-32E	675 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
/an Doo Dah 33-28 Fed Com 712H		33-25S-32E	2065 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
/an Doo Dah 33-28 Fed Com 622H		33-25S-32E	2095 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 732H		33-25S-32E	2125 FWL	200 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 2
an Doo Dah 33-28 Fed Com 714H		33-25S-32E	2276 FEL	180 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3
'an Doo Dah 33-28 Fed Com 624H		33-25S-32E	2246 FEL	180 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 734H		33-25S-32E	2216 FEL	180 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 716H		33-25S-32E	851 FEL	177 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 626H		33-25S-32E	821 FEL	177 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3
an Doo Dah 33-28 Fed Com 736H		33-25S-32E	791 FEL	177 FSL	(+/-)1857bopd	(+/-)6539mcfd	(+/-)9727bwpd	Van Doo Dah 33 CTB 3

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well

				Completion		First
			TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
Van Doo Dah 33-28 Fed Com 821H	n/a	9/29/2023	10/29/2023	2/26/2024	2/26/2024	2/26/2024
Van Doo Dah 33-28 Fed Com 831H	n/a	10/14/2023	11/13/2023	3/12/2024	3/12/2024	3/12/2024
Van Doo Dah 33-28 Fed Com 822H	n/a	11/6/2023	12/6/2023	4/4/2024	4/4/2024	4/4/2024
Van Doo Dah 33-28 Fed Com 832H	n/a	11/28/2023	12/28/2023	4/26/2024	4/26/2024	4/26/2024
Van Doo Dah 33-28 Fed Com 839H	n/a	12/13/2023	1/12/2024	5/11/2024	5/11/2024	5/11/2024
Van Doo Dah 33-28 Fed Com 823H	n/a	11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
Van Doo Dah 33-28 Fed Com 833H	n/a	11/20/2023	12/20/2023	4/18/2024	4/18/2024	4/18/2024
Van Doo Dah 33-28 Fed Com 830H	n/a	10/28/2023	11/27/2023	3/26/2024	3/26/2024	3/26/2024
Van Doo Dah 33-28 Fed Com 824H	n/a	11/1/2023	12/1/2023	3/30/2024	3/30/2024	3/30/2024
Van Doo Dah 33-28 Fed Com 834H	n/a	9/29/2023	10/29/2023	2/26/2024	2/26/2024	2/26/2024
Van Doo Dah 33-28 Fed Com 711H	n/a	10/14/2023	11/13/2023	3/12/2024	3/12/2024	3/12/2024
Van Doo Dah 33-28 Fed Com 621H	n/a	11/6/2023	12/6/2023	4/4/2024	4/4/2024	4/4/2024
Van Doo Dah 33-28 Fed Com 731H	n/a	11/28/2023	12/28/2023	4/26/2024	4/26/2024	4/26/2024
Van Doo Dah 33-28 Fed Com 712H	n/a	10/28/2023	11/27/2023	3/26/2024	3/26/2024	3/26/2024
Van Doo Dah 33-28 Fed Com 622H	n/a	12/13/2023	1/12/2024	5/11/2024	5/11/2024	5/11/2024
Van Doo Dah 33-28 Fed Com 732H	n/a	11/20/2023	12/20/2023	4/18/2024	4/18/2024	4/18/2024
Van Doo Dah 33-28 Fed Com 714H	n/a	11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
Van Doo Dah 33-28 Fed Com 624H	n/a	11/1/2023	12/1/2023	3/30/2024	3/30/2024	3/30/2024
Van Doo Dah 33-28 Fed Com 734H	n/a	12/16/2023	1/15/2024	5/14/2024	5/14/2024	5/14/2024
Van Doo Dah 33-28 Fed Com 716H	n/a	10/28/2023	11/27/2023	3/26/2024	3/26/2024	3/26/2024
Van Doo Dah 33-28 Fed Com 626H	n/a	12/13/2023	1/12/2024	5/11/2024	5/11/2024	5/11/2024
Van Doo Dah 33-28 Fed Com 736H	n/a	11/20/2023	12/20/2023	4/18/2024	4/18/2024	4/18/2024

\*Dates subject to change

#### Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

#### IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

#### X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.**  $\Box$  Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system  $\Box$  will  $\Box$  will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII.** Line Pressure. Operator  $\Box$  does  $\Box$  does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:**  $\Box$  Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

#### Section 3 - Certifications Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 $\square$  Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

D Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:* 

**Well Shut-In.**  $\Box$  Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.**  $\Box$  Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (t) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

# Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:
Printed Name: Jeffrey Walla Title: Surface Land & Regulatory Manager E-mail Address: : (C. 11, 0.1)
Title: Surface Land & Regulatory Manager
E-mail Address: jeff.walla@dvn.com
Date: 05/15/2022
Phone: (405) 552-8154
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



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#### VI. Separation Equipment

Devon Energy Production Company, L.P. utilizes a "stage separation" process in which oil and gas separation is carried out through a series of separators operating at successively reduced pressures. Hydrocarbon liquids are produced into a high-pressure inlet separator, then carried through one or more lower pressure separation vessels before entering the storage tanks. The purpose of this separation process is to attain maximum recovery of liquid hydrocarbons from the fluids and allow maximum capture of produced gas into the sales pipeline. Devon utilizes a series of Low-Pressure Compression units to capture gas off the staged separation and send it to the sales pipeline. This process minimizes the amount of flash gas that enters the end-stage storage tanks that is subsequently vented or flared.



#### **VII.** Operational Practices

Devon Energy Production Company, L. P. will employ best management practices and control technologies to maximize the recovery and minimize waste of natural gas through venting and flaring.

- During drilling operations, Devon will utilize flares and/or combustors to capture and control natural gas, where technically feasible. If flaring is deemed technically in-feasible, Devon will employ best management practices to minimize or reduce venting to the extent possible.
- During completions operations, Devon will utilize Green Completion methods to capture gas produced during well completions that is otherwise vented or flared. If capture is technically in-feasible, flares and/or combustors will be used to capture and control flow back fluids entering into frac tanks during initial flowback. Upon indication of first measurable hydrocarbon volumes, Devon will turn operations to onsite separation vessels and flow to the gathering pipeline.
- During production operations, Devon will take every practical effort to minimize waste of natural gas through venting and flaring by:
  - Designing and constructing facilities in a manner consistent to achieve maximum capture and control of hydrocarbon liquids & produced gas
  - Utilizing a closed-loop capture system to collect and route produced gas to sales line via low pressure compression, or to a flare/combustor
  - Flaring in lieu of venting, where technically feasible
  - Utilizing auto-ignitors or continuous pilots, with thermocouples connected to Scada, to quickly detect and resolve issues related to malfunctioning flares/combustors
  - Employ the use of automatic tank gauging to minimize storage tank venting during loading events
  - Installing air-driven or electric-driven pneumatics & combustion engines, where technically feasible to minimize venting to the atmosphere
  - Confirm equipment is properly maintained and repaired through a preventative maintenance and repair program to ensure equipment meets all manufacturer specifications
  - Conduct and document AVO inspections on the frequency set forth in Part 27 to detect and repair any onsite leaks as quickly and efficiently as is feasible



Devon Energy Production Company, L.P. will utilize best management practices to minimize venting during active and planned maintenance activities. Devon is operating under guidance that production facilities permitted under NOI permits have no provisions to allow high pressure flaring and high pressure flaring is only allowed in disruption scenarios so long as the duration is less than eight hours. When technically feasible, flaring during maintenance activities will be utilized in lieu of venting to the atmosphere. Devon will work with third-party operators during scheduled maintenance of downstream pipeline or processing plants to address those events ahead of time to minimize venting. Actions considered include identifying alternative capture approaches or planning to temporarily reduce production or shut in the well to address these circumstances.

#### 1. Geologic Formations

TVD of target	12269	Pilot hole depth	N/A
MD at TD:	22548	Deepest expected fresh water	

Basin

Formation	Depth (TVD)	Water/Mineral Bearing/Target	Hazards*
	from KB	Zone?	
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.

		Wt				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	H40	BTC	0	1020	0	1020
9 7/8	8 5/8	32	P110	TLW	0	11910	0	11910
7 7/8	5 1/2	17	P110	BTC	0	22548	0	12269

#### 2. Casing Program (Primary Design)

• 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.

Casing	# Sks	ТОС	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	413	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	527	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
1111 1	546	7197	13.2	1.44	Tail: Class H / C + additives
Production	117	9763.22	9	3.27	Lead: Class H /C + additives
Froduction	1427	11763.22	13.2	1.44	Tail: Class H / C + additives

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

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		d Ram	Х																						
int i	15 5/6	5101		e Ram		- 5M																					
			Doub	le Ram	X	5101																					
			Other*																								
			Annul	ar (5M)	Х	100% of rated working pressure																					
Production	13-5/8"	10M	Blind Ram		Х																						
Floduction			10101	10101	10101	10101	10101	10101	10111	10111	10111	10111	10111	10111	10101	10101	10101	10101	10101	10111	10111	10111	10111	10101	10111	Pipe	e Ram
			Doub	le Ram	Х	10111																					
			Other*																								
			Annul	ar (5M)																							
			Bline	d Ram																							
			Pipe Ram			]																					
			Doub	le Ram		]																					
			Other*																								
N A variance is requested for	the use of a	a diverter or	the surface	casing. See	attached for	schematic.																					
Y A variance is requested to	run a 5 M a	nnular on a	10M system	l																							

#### 4. Pressure Control Equipment (Three String Design)

#### 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
what will be used to monitor the loss of gain of fland.	i v i/i usoni v isuui i/iointoring

#### 6. Logging and Testing Procedures

Logging, Coring and Testing				
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the			
Х	Completion Rpeort and sbumitted 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	
Х	CBL	Production casing	
Х	Mud log	Intermediate shoe to TD	
	PEX		

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6699
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.

Y H2S plan attached.	11	1125 is present
	Y	H2S 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

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.

Attachments

X Directional Plan Other, describe



### **Section 1 - Geologic Formations**

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
8604311	UNKNOWN	3670	0	0	ALLUVIUM, OTHER : Surface	NONE	N
8604312	RUSTLER	2675	995	995	SANDSTONE	NONE	N
8604316	TOP SALT	2290	1380	1380	SALT	NONE	N
8604320	BELL CANYON	-955	4625	4625	SANDSTONE	NATURAL GAS, OIL	N
8604314	BASE OF SALT	-955	4625	4625	SALT	NONE	N
8604321	CHERRY CANYON	-1910	5580	5580	SANDSTONE	NATURAL GAS, OIL	N
8604322	BRUSHY CANYON	-3500	7170	7170	SANDSTONE	NATURAL GAS, OIL	N
8604323	BONE SPRING LIME	-5010	8680	8680	LIMESTONE	NATURAL GAS, OIL	N
8604313	BONE SPRING	-5995	9665	9665	SANDSTONE	NATURAL GAS, OIL	N
8604310	BONE SPRING 2ND	-6640	10310	10310	SANDSTONE	NATURAL GAS, OIL	N
8604324	BONE SPRING LIME	-7135	10805	10805	LIMESTONE	NATURAL GAS, OIL	N
8604325	BONE SPRING 3RD	-7745	11415	11415	SANDSTONE	NATURAL GAS, OIL	N
8604326	WOLFCAMP	-8240	11910	11910	SANDSTONE	NATURAL GAS, OIL	Y
8604327	STRAWN	-10300	13970	13970	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention





Commitment Runs Deep



Design Plan Operation and Maintenance Plan Closure Plan

SENM - Closed Loop Systems June 2010

#### I. Design Plan

Devon uses MI SWACO closed loop system (CLS). The MI SWACO CLS is designed to maintain drill solids at or below 5%. The equipment is arranged to progressively remove solids from the largest to the smallest size. Drilling fluids can thus be reused and savings is realized on mud and disposal costs. Dewatering may be required with the centrifuges to insure removal of ultra fine solids.

The drilling location is constructed to allow storm water to flow to a central sump normally the cellar. This insures no contamination leaves the drilling pad in the event of a spill. Storm water is reused in the mud system or stored in a reserve fluid tank farm until it can be reused. All lubricants, oils, or chemicals are removed immediately from the ground to prevent the contamination of storm water. An oil trap is normally installed on the sump if an oil spill occurs during a storm.

A tank farm is utilized to store drilling fluids including fresh water and brine fluids. The tank farm is constructed on a 20 ml plastic lined, bermed pad to prevent the contamination of the drilling site during a spill. Fluids from other sites may be stored in these tanks for processing by the solids control equipment and reused in the mud system. At the end of the well the fluids are transported from the tank farm to an adjoining well or to the next well for the rig.

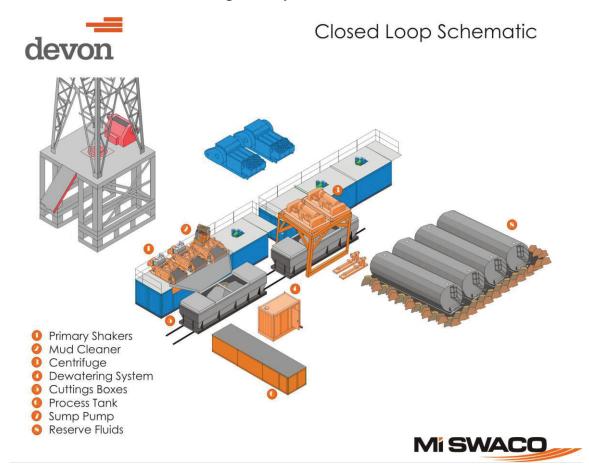
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

Signs will be posted on the fence surrounding the closed-loop system unless the closed-loop system is located on a site where there is an existing well, that is operated by Devon.

#### II. Operations and Maintenance Plan

*Primary Shakers*: The primary shakers make the first removal of drill solids from the drilling mud as it leaves the well bore. The shakers are sized to handle maximum drilling rate at optimal screen size. The shakers normally remove solids down to 74 microns.

*Mud Cleaner*: The Mud Cleaner cleans the fluid after it leaves the shakers. A set of hydrocyclones are sized to handle 1.25 to 1.5 times the maximum circulating rate. This ensures all the fluid is being processed to an average cut point of 25 microns. The wet discharged is dewatered on a shaker equipped with ultra fine mesh screens and generally cut at 40 microns.



*Centrifuges*: The centrifuges can be one or two in number depending on the well geometry or depth of well. The centrifuges are sized to maintain low gravity solids at 5% or below. They may or may not need a dewatering system to enhance the removal rates. The centrifuges can make a cut point of 8-10 microns depending on bowl speed, feed rate, solids loading and other factors.

The centrifuge system is designed to work on the active system and be flexible to process incoming fluids from other locations. This set-up is also dependent on well factors.

*Dewatering System:* The dewatering system is a chemical mixing and dosing system designed to enhance the solids removal of the centrifuge. Not commonly used in shallow wells. It may contain pH adjustment, coagulant mixing and dosing, and polymer mixing and dosing. Chemical flocculation binds ultra fine solids into a mass that is within the centrifuge operating design. The

dewatering system improves the centrifuge cut point to infinity or allows for the return of clear water or brine fluid. This ability allows for the ultimate control of low gravity solids.

*Cuttings Boxes:* Cuttings boxes are utilized to capture drill solids that are discarded from the solids control equipment. These boxes are set upon a rail system that allows for the removal and replacement of a full box of cuttings with an empty one. They are equipped with a cover that insures no product is spilled into the environment during the transportation phase.

*Process Tank:* (Optional) The process tank allows for the holding and process of fluids that are being transferred into the mud system. Additionally, during times of lost circulation the process tank may hold active fluids that are removed for additional treatment. It can further be used as a mixing tank during well control conditions.

Sump and Sump Pump: The sump is used to collect storm water and the pump is used to transfer this fluid to the active system or to the tank for to hold in reserve. It can also be used to collect fluids that may escape during spills. The location contains drainage ditches that allow the location fluids to drain to the sump.

*Reserve Fluids (Tank Farm):* A series of frac tanks are used to replace the reserve pit. These are steel tanks that are equipped with a manifold system and a transfer pump. These tanks can contain any number of fluids used during the drilling process. These can include fresh water, cut brine, and saturated salt fluid. The fluid can be from the active well or reclaimed fluid from other locations. A 20 ml liner and berm system is employed to ensure the fluids do not migrate to the environment during a spill.

If a leak develops, the appropriate division district office will be notified within 48 hours of the discovery and the leak will be addressed. Spill prevention is accomplished by maintaining pump packing, hoses, and pipe fittings to insure no leaks are occurring. During an upset condition the source of the spill is isolated and repaired as soon as it is discovered. Free liquid is removed by a diaphragm pump and returned to the mud system. Loose topsoil may be used to stabilize the spill and the contaminated soil is excavated and placed in the cuttings boxes. After the well is finished and the rig has moved, the entire location is scrapped and testing will be performed to determine if a release has occurred.

All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

These operations are monitored by Mi Swaco service technicians. Daily logs are maintained to ensure optimal equipment operation and maintenance. Screen and chemical use is logged to maintain inventory control. Fluid properties are monitored and recorded and drilling mud volumes are accounted for in the mud storage farm. This data is kept for end of well review to insure performance goals are met. Lessons learned are logged and used to help with continuous improvement.

A MI SWACO field supervisor manages from 3-5 wells. They are responsible for training personnel, supervising installations, and inspecting sites for compliance of MI SWACO safety and operational policy.

#### III. Closure Plan

A maximum 340' X 340' caliche pad is built per well. All of the trucks and steel tanks fit on this pad. All fluid cuttings go to the steel tanks to be hauled by various trucking companies to an agency approved disposal.

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: VAN DOO DAH 33-28 FED COM

Well Number: 731H

#### Pressure Rating (PSI): 10M

#### Rating Depth: 12269

**Equipment:** BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below surface casing, a BOP/BOPE system with the above minimum rating will be installed on the wellhead system. BOP/BOPE will be tested by an independent service company per Onshore Oil & Gas Order #2 requirements and MASP (Maximum Anticipated Surface Pressure) calculations. If the system is upgraded, all the components installed will be functional and tested.

#### Requesting Variance? YES

Variance request: A variance is requested for the use of a flexible choke line from the BOP stack to the choke manifold. See attached for specs for hydrostatic test chart.

**Testing Procedure:** A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

#### Choke Diagram Attachment:

MB\_Wellhd\_WC\_3\_STRING\_20\_10.75\_8.625\_5.5\_20220505120011.pdf

break\_test\_variance\_BOP\_20220505120106.pdf

MB\_Verb\_10M\_20220512054056.pdf

Section 3 - Casing

Annular\_Variance\_\_\_Preventer\_Summary\_20220512054056.pdf

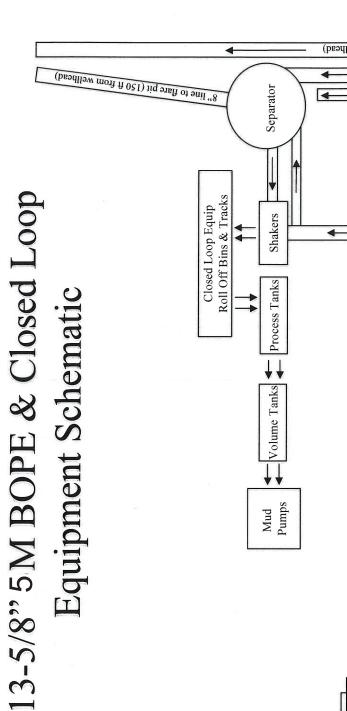
10M\_BOPE\_CHK\_DR\_CLS\_RKL\_20220512054056.pdf

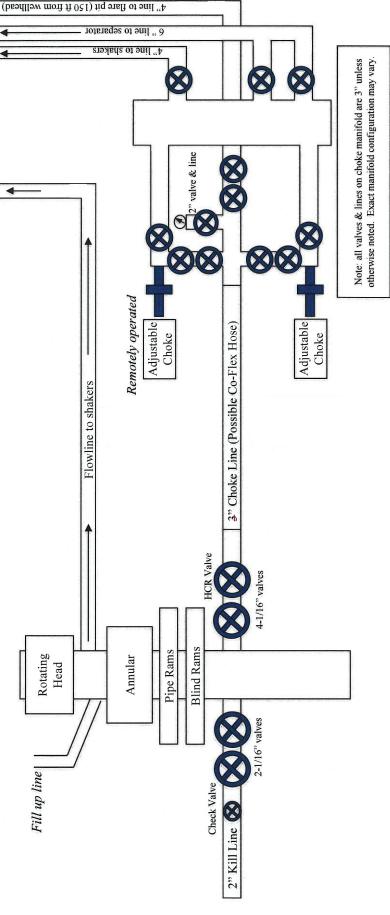
#### **BOP Diagram Attachment:**

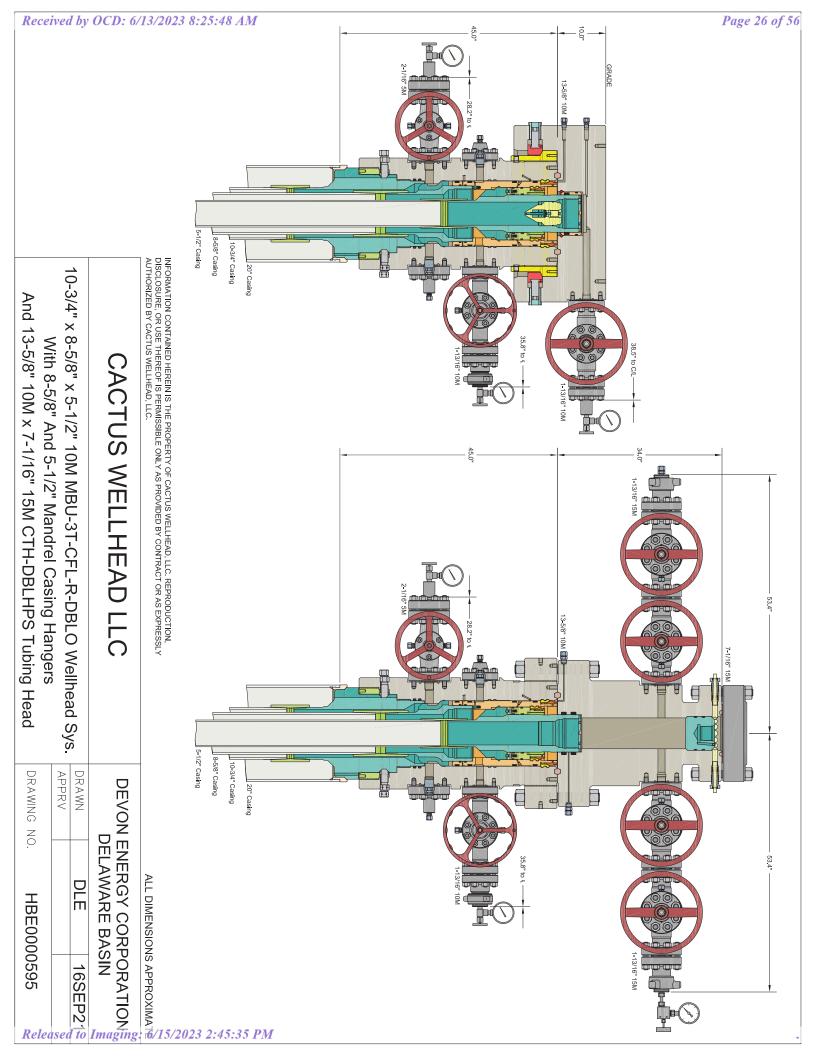
10M\_BOPE\_CHK\_DR\_CLS\_RKL\_20220512054119.pdf

#### Bottom Set TVD Bottom Set MSI Calculated casing length MD Bottom Set MD Tapered String SF Type Type Set TVD Set MSL Set MD ŝ String Type Joint Type □ Size Condition Size Standard Collapse Burst SF ŝ ЧS Joint SF Casing I Weight Grade Joint ( Body Body Hole Top Csg Top Гор 2296 1020 OTHER -SURFACE 13.5 10.75 NEW API Ν 0 1020 3316 1020 H-40 40.5 1.12 BUOY 1.6 BUOY 1.6 1 n 1 BTC INTERMED 9.87 8.625 NEW API 11910 0 11910 -6965 -8594 11910 OTHER -1.12 1 BUOY 1.6 BUOY 1.6 2 Ν 0 P-32 110 TLW IATE OTHER -PRODUCTI 7.87 5.5 1.12 1 3 NEW API N 0 22548 0 12269 -6965 -8953 22548 P-17 BUOY 1.6 BUOY 16 ON 110 BTC

#### **Casing Attachments**







#### Section 2 - Blowout Preventer Testing Procedure

#### Variance Request

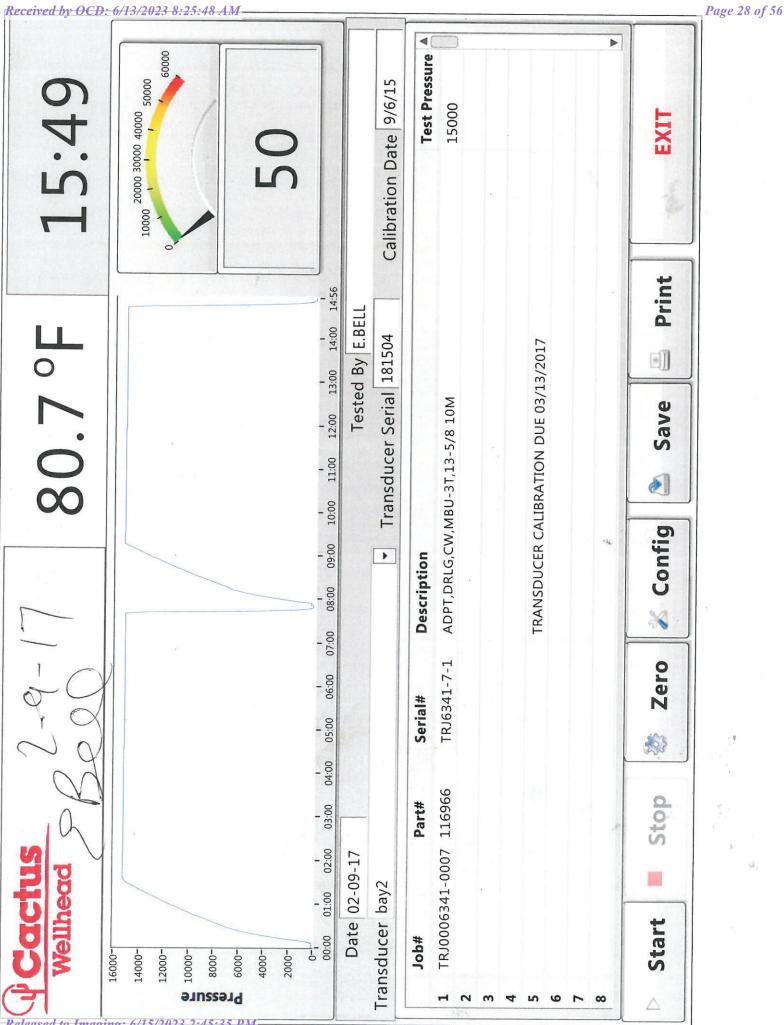
Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. This test will include the Top Pipe Rams, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and Shell of 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:

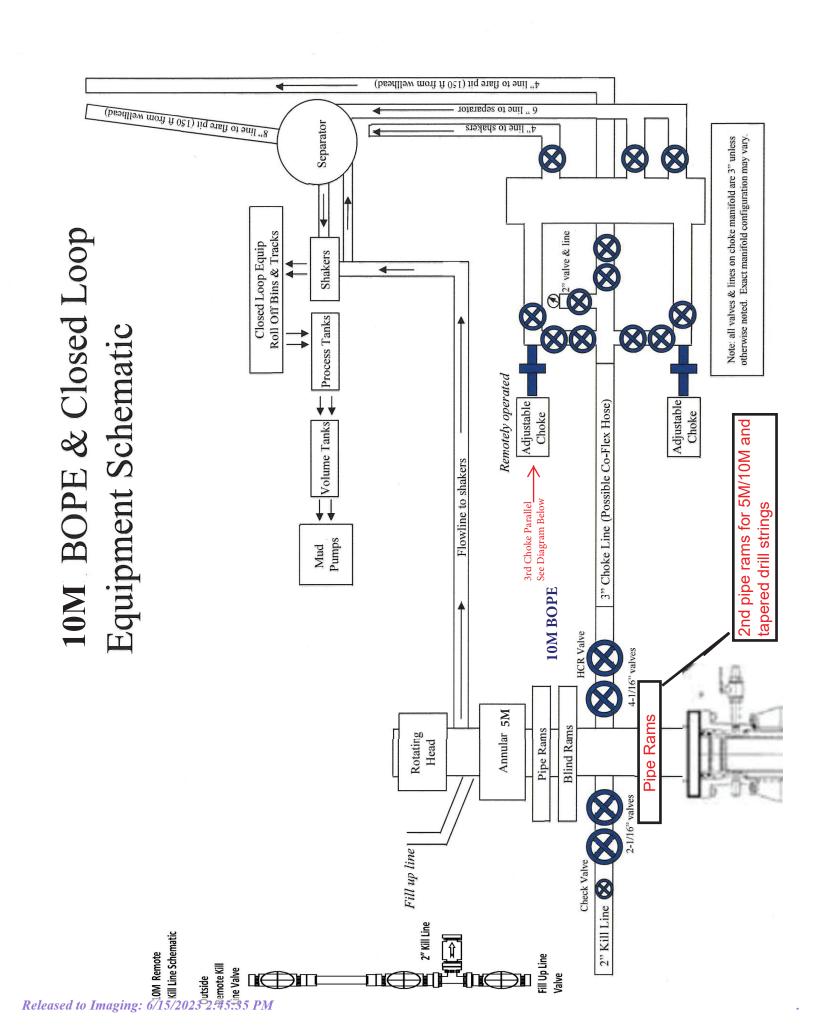
1. Primary barrier remains fluid

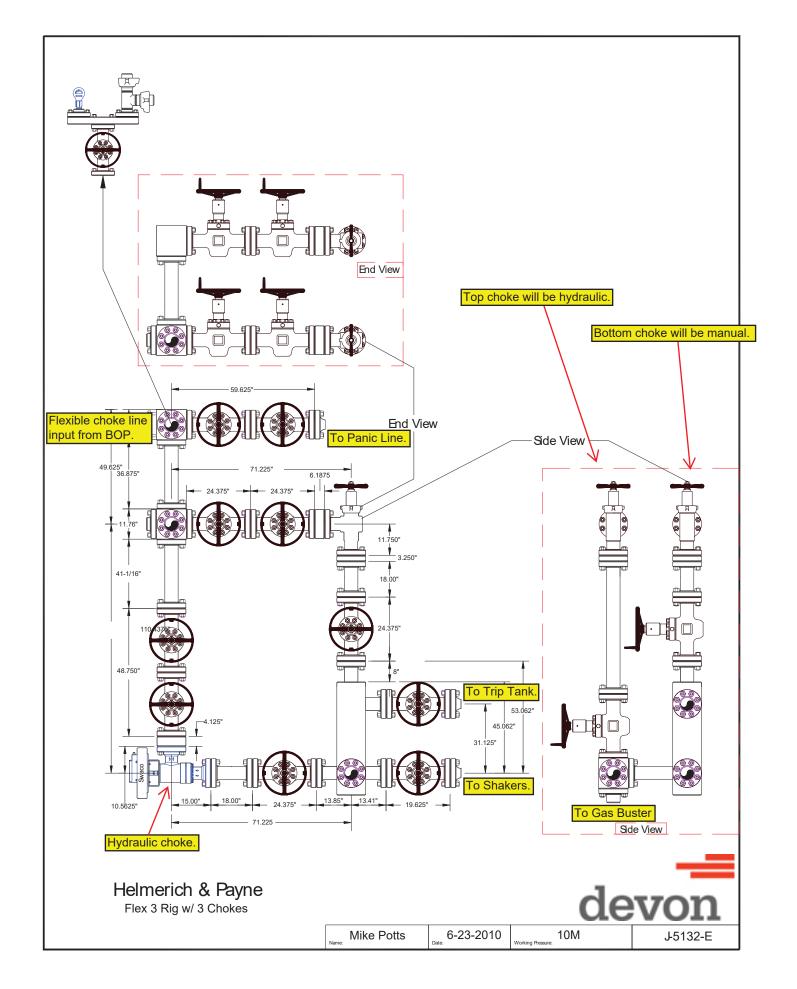
2. In the event of an influx due to being underbalanced and after a realized gain or flow, the order of closing BOPE is as follows:

- 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



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# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP
LEASE NO.:	NMNM120909
LOCATION:	Section 33, T.25 S., R.32 E., NMPM
COUNTY:	Lea County, New Mexico
WELL NAME & NO.:	Van Doo Dah 33-28 Fed Com 712H
SURFACE HOLE FOOTAGE:	200'/S & 2065'/W
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1650'/W
ATS/API ID:	ATS-22-1247
APD ID:	10400085334
Sundry ID:	N/a
WELL NAME & NO.:	Van Doo Dah 33-28 Fed Com 731H
SURFACE HOLE FOOTAGE:	200'/S & 675'/W
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 990'/W
ATS/API ID:	ATS-22-1223
APD ID:	10400085316
Sundry ID:	N/a

COA

Page 1 of 10

H2S			1
H25	Yes <u>–</u>		
Potash	None 🔽		
Cave/Karst	Low		
Potential			
Cave/Karst	Critical		
Potential			
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🔽	
Other	□ 4 String	Capitan Reef	□ WIPP
		None -	
Other	Pilot Hole	Open Annulus	
	None 🔽		
Cementing	Contingency Squeeze	Echo-Meter	Primary Cement
	None	None 🔫	Squeeze
			Int 1 🚽
0 1			
Special	□ Water	COM	🗖 Unit
Requirements	Disposal/Injection		
Special	□ Batch Sundry		
Requirements		_	_
Special	Break Testing	□ Offline	$\Box$ Casing
Requirements		Cementing	Clearance
Variance			

#### A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware and Bone Springs** 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

- The 10-3/4 inch surface casing shall be set at approximately 1200 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. The surface hole shall be 13 1/2 inch in diameter.
  - 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

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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 <u>8</u> <u>hours</u> 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' (546 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 527 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 a CBL from TD of the 8-5/8" casing to surface.</u> <u>Submit results to the BLM.</u>

If cement does not tie-back into the previous casing shoe, a third stage remediation BH may be performed. The appropriate BLM office shall be notified.

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

- 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)**

#### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

### **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)
  - Eddy County Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
  - Lea County Call 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 2<sup>nd</sup> 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.

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## 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.
- <u>Wait on cement (WOC) for Potash Areas:</u> 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 <u>24</u> <u>hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. 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.

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#### 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

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after cut-off or once cement reaches 500 psi compressive strength (including lead cement), 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. 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

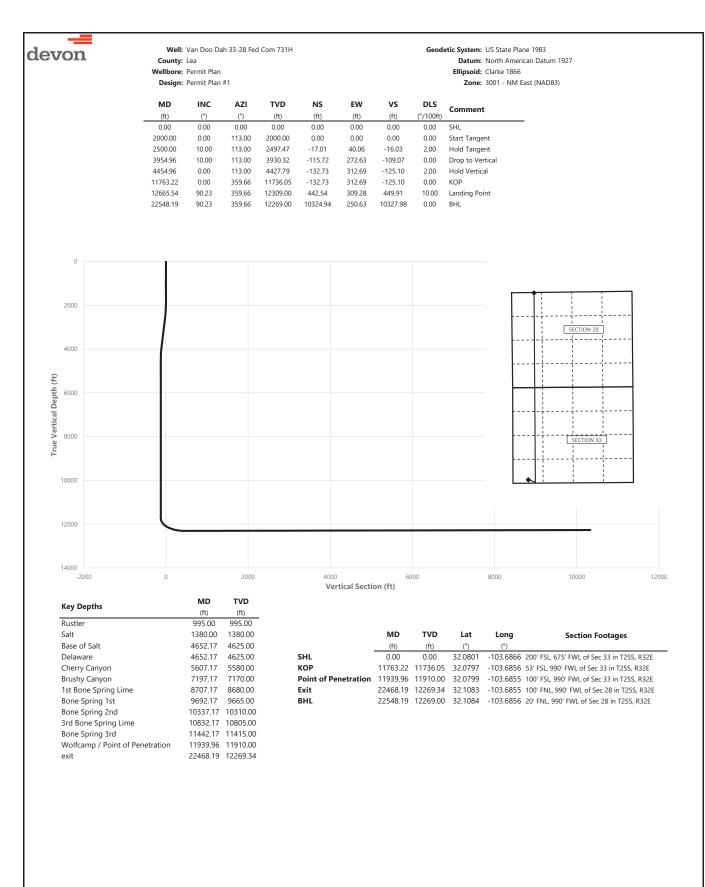
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

## 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 5/17/2023



devon		County:	Lea	ah 33-28 Fed	Com 731H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plan Permit Plan						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	113.00	100.00	0.00	0.00	0.00	0.00	
	200.00	0.00	113.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	113.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	113.00	400.00	0.00	0.00	0.00	0.00	
	500.00 600.00	0.00 0.00	113.00 113.00	500.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	700.00	0.00	113.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	113.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	113.00	900.00	0.00	0.00	0.00	0.00	
	995.00	0.00	113.00	995.00	0.00	0.00	0.00	0.00	Rustler
	1000.00	0.00	113.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00 1200.00	0.00 0.00	113.00 113.00	1100.00 1200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1300.00	0.00	113.00	1300.00	0.00	0.00	0.00	0.00	
	1380.00	0.00	113.00	1380.00	0.00	0.00	0.00	0.00	Salt
	1400.00	0.00	113.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	113.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	113.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00 1800.00	0.00 0.00	113.00 113.00	1700.00 1800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1900.00	0.00	113.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	113.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	113.00	2099.98	-0.68	1.61	-0.64	2.00	
	2200.00	4.00	113.00	2199.84	-2.73	6.42	-2.57	2.00	
	2300.00	6.00	113.00	2299.45	-6.13	14.45	-5.78	2.00	
	2400.00 2500.00	8.00 10.00	113.00 113.00	2398.70 2497.47	-10.89 -17.01	25.66 40.06	-10.27 -16.03	2.00 2.00	Hold Tangent
	2600.00	10.00	113.00	2595.95	-23.79	56.05	-22.42	0.00	
	2700.00	10.00	113.00	2694.43	-30.58	72.03	-28.82	0.00	
	2800.00	10.00	113.00	2792.91	-37.36	88.02	-35.21	0.00	
	2900.00	10.00	113.00	2891.39	-44.15	104.00	-41.61	0.00	
	3000.00	10.00	113.00	2989.87	-50.93	119.98	-48.00	0.00	
	3100.00 3200.00	10.00 10.00	113.00 113.00	3088.35 3186.83	-57.72 -64.50	135.97 151.95	-54.40 -60.79	0.00 0.00	
	3300.00	10.00	113.00	3285.31	-71.29	167.94	-67.19	0.00	
	3400.00	10.00	113.00	3383.79	-78.07	183.92	-73.58	0.00	
	3500.00	10.00	113.00	3482.27	-84.86	199.91	-79.98	0.00	
	3600.00	10.00	113.00	3580.75	-91.64	215.89	-86.37	0.00	
	3700.00	10.00	113.00	3679.23	-98.42	231.88	-92.77	0.00	
	3800.00 3900.00	10.00 10.00	113.00 113.00	3777.72 3876.20	-105.21 -111.99	247.86 263.84	-99.16 -105.56	0.00 0.00	
	3954.96	10.00	113.00	3930.32	-115.72	272.63	-109.07	0.00	Drop to Vertical
	4000.00	9.10	113.00	3974.74	-118.64	279.51	-111.83	2.00	
	4100.00	7.10	113.00	4073.73	-124.15	292.48	-117.01	2.00	
	4200.00	5.10	113.00	4173.16	-128.30	302.26	-120.93	2.00	
	4300.00 4400.00	3.10	113.00 113.00	4272.90	-131.09	308.84	-123.56 -124.91	2.00 2.00	
	4400.00 4454.96	1.10 0.00	113.00	4372.83 4427.79	-132.52 -132.73	312.21 312.69	-124.91 -125.10	2.00	Hold Vertical
	4454.90	0.00	359.66	4472.83	-132.73	312.69	-125.10	0.00	
	4600.00	0.00	359.66	4572.83	-132.73	312.69	-125.10	0.00	
	4652.17	0.00	359.66	4625.00	-132.73	312.69	-125.10	0.00	Base of Salt, Delaware
	4700.00	0.00	359.66	4672.83	-132.73	312.69	-125.10	0.00	
	4800.00	0.00	359.66	4772.83	-132.73	312.69	-125.10	0.00	
	4900.00 5000.00	0.00 0.00	359.66 359.66	4872.83 4972.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00 0.00	
	5100.00	0.00	359.66	4972.83 5072.83	-132.73	312.69	-125.10	0.00	
	5200.00	0.00	359.66	5172.83	-132.73	312.69	-125.10	0.00	
	5300.00	0.00	359.66	5272.83	-132.73	312.69	-125.10	0.00	
	5400.00	0.00	359.66	5372.83	-132.73	312.69	-125.10	0.00	
	5500.00	0.00	359.66	5472.83	-132.73	312.69	-125.10	0.00	
	5600.00 5607.17	0.00	359.66 359.66	5572.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00	Cherny Canyon
	5607.17 5700.00	0.00 0.00	359.66 359.66	5580.00 5672.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00 0.00	Cherry Canyon
	5700.00 5800.00	0.00	359.66	5672.83	-132.73	312.69	-125.10	0.00	
	5900.00	0.00	359.66	5872.83	-132.73	312.69	-125.10	0.00	
	6000.00	0.00	359.66	5972.83	-132.73	312.69	-125.10	0.00	
	6100.00	0.00	359.66	6072.83	-132.73	312.69	-125.10	0.00	
	6200.00	0.00	359.66	6172.83	-132.73	312.69	-125.10	0.00	
	6300.00	0.00	359.66	6272.83	-132.73	312.69	-125.10	0.00	

devon				ah 33-28 Fed	Com 731H				Geodetic System: US State Plane 1983
acvon		County:							Datum: North American Datum 1927
			Permit Plan						Ellipsoid: Clarke 1866
		Design:	Permit Plar	1 # 1					<b>Zone:</b> 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
-	6400.00	0.00	359.66	6372.83	-132.73	312.69	-125.10	0.00	
	6500.00	0.00	359.66	6472.83	-132.73	312.69	-125.10	0.00	
	6600.00	0.00	359.66	6572.83	-132.73	312.69	-125.10	0.00	
	6700.00	0.00	359.66	6672.83	-132.73	312.69	-125.10	0.00	
	6800.00	0.00	359.66	6772.83	-132.73	312.69	-125.10	0.00	
	6900.00	0.00	359.66	6872.83	-132.73	312.69	-125.10	0.00	
	7000.00	0.00	359.66	6972.83	-132.73	312.69	-125.10	0.00	
	7100.00	0.00	359.66	7072.83	-132.73	312.69	-125.10	0.00	
	7197.17	0.00	359.66	7170.00	-132.73	312.69	-125.10	0.00	Brushy Canyon
	7200.00 7300.00	0.00 0.00	359.66 359.66	7172.83 7272.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00 0.00	
	7400.00	0.00	359.66	7372.83	-132.73	312.69	-125.10	0.00	
	7500.00	0.00	359.66	7472.83	-132.73	312.69	-125.10	0.00	
	7600.00	0.00	359.66	7572.83	-132.73	312.69	-125.10	0.00	
	7700.00	0.00	359.66	7672.83	-132.73	312.69	-125.10	0.00	
	7800.00	0.00	359.66	7772.83	-132.73	312.69	-125.10	0.00	
	7900.00	0.00	359.66	7872.83	-132.73	312.69	-125.10	0.00	
	8000.00	0.00	359.66	7972.83	-132.73	312.69	-125.10	0.00	
	8100.00	0.00	359.66	8072.83	-132.73	312.69	-125.10	0.00	
	8200.00	0.00	359.66	8172.83	-132.73	312.69	-125.10	0.00	
	8300.00	0.00	359.66	8272.83	-132.73	312.69	-125.10	0.00	
	8400.00	0.00	359.66	8372.83	-132.73	312.69	-125.10	0.00	
	8500.00	0.00 0.00	359.66	8472.83	-132.73	312.69	-125.10	0.00	
	8600.00 8700.00	0.00	359.66 359.66	8572.83 8672.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00 0.00	
	8707.17	0.00	359.66	8680.00	-132.73	312.69	-125.10	0.00	1st Bone Spring Lime
	8800.00	0.00	359.66	8772.83	-132.73	312.69	-125.10	0.00	ist bone opining time
	8900.00	0.00	359.66	8872.83	-132.73	312.69	-125.10	0.00	
	9000.00	0.00	359.66	8972.83	-132.73	312.69	-125.10	0.00	
	9100.00	0.00	359.66	9072.83	-132.73	312.69	-125.10	0.00	
	9200.00	0.00	359.66	9172.83	-132.73	312.69	-125.10	0.00	
	9300.00	0.00	359.66	9272.83	-132.73	312.69	-125.10	0.00	
	9400.00	0.00	359.66	9372.83	-132.73	312.69	-125.10	0.00	
	9500.00 9600.00	0.00	359.66	9472.83 9572.83	-132.73 -132.73	312.69	-125.10 -125.10	0.00	
	9692.17	0.00 0.00	359.66 359.66	9665.00	-132.73	312.69 312.69	-125.10	0.00 0.00	Bone Spring 1st
	9700.00	0.00	359.66	9672.83	-132.73	312.69	-125.10	0.00	bone spring rat
	9800.00	0.00	359.66	9772.83	-132.73	312.69	-125.10	0.00	
	9900.00	0.00	359.66	9872.83	-132.73	312.69	-125.10	0.00	
	10000.00	0.00	359.66	9972.83	-132.73	312.69	-125.10	0.00	
	10100.00	0.00	359.66	10072.83	-132.73	312.69	-125.10	0.00	
	10200.00	0.00	359.66	10172.83	-132.73	312.69	-125.10	0.00	
	10300.00	0.00	359.66	10272.83	-132.73	312.69	-125.10	0.00	
	10337.17	0.00	359.66	10310.00	-132.73	312.69	-125.10	0.00	Bone Spring 2nd
	10400.00	0.00	359.66	10372.83	-132.73	312.69	-125.10	0.00	
	10500.00 10600.00	0.00 0.00	359.66 359.66	10472.83 10572.83	-132.73	312.69 312.69	-125.10	0.00 0.00	
	10700.00	0.00	359.66	10572.83	-132.73 -132.73	312.69	-125.10 -125.10	0.00	
	10800.00	0.00	359.66	10772.83	-132.73	312.69	-125.10	0.00	
	10832.17	0.00	359.66	10805.00	-132.73	312.69	-125.10	0.00	3rd Bone Spring Lime
	10900.00	0.00	359.66	10872.83	-132.73	312.69	-125.10	0.00	1 5
	11000.00	0.00	359.66	10972.83	-132.73	312.69	-125.10	0.00	
	11100.00	0.00	359.66	11072.83	-132.73	312.69	-125.10	0.00	
	11200.00	0.00	359.66	11172.83	-132.73	312.69	-125.10	0.00	
	11300.00	0.00	359.66	11272.83	-132.73	312.69	-125.10	0.00	
	11400.00	0.00	359.66	11372.83	-132.73	312.69	-125.10	0.00	
	11442.17	0.00	359.66	11415.00	-132.73	312.69	-125.10	0.00	Bone Spring 3rd
	11500.00 11600.00	0.00 0.00	359.66 359.66	11472.83 11572.83	-132.73 -132.73	312.69 312.69	-125.10 -125.10	0.00 0.00	
	11700.00	0.00	359.66	11572.83	-132.73	312.69	-125.10	0.00	
	11763.22	0.00	359.66	11736.05	-132.73	312.69	-125.10	0.00	КОР
	11800.00	3.68	359.66	11772.80	-131.55	312.69	-123.92	10.00	
	11900.00	13.68	359.66	11871.53	-116.48	312.60	-108.86	10.00	
	11939.96	17.67	359.66	11910.00	-105.69	312.53	-98.07	10.00	Wolfcamp / Point of Penetration
	12000.00	23.68	359.66	11966.14	-84.50	312.41	-76.89	10.00	
	12100.00	33.68	359.66	12053.77	-36.57	312.12	-28.99	10.00	
	12200.00	43.68	359.66	12131.73	25.84	311.75	33.40	10.00	
	12300.00	53.68	359.66	12197.68	100.85	311.31	108.37	10.00	
	12400.00	63.68	359.66	12249.60	186.16	310.80	193.65	10.00	
	12500.00	73.68	359.66	12285.91	279.20	310.25	286.65	10.00	

		M	Van Dr C		Com 73111				Good atta Santa	LIS State Plane 1092
devon				ah 33-28 Fed	Com 731H				-	US State Plane 1983
		County: Wellbore:	Permit Plan							North American Datum 1927 Clarke 1866
			Permit Plan						•	3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment	
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)		
	12600.00	83.68	359.66	12305.52	377.13	309.66	384.53	10.00	Landing Daint	
	12665.54 12700.00	90.23 90.23	359.66 359.66	12309.00 12308.86	442.54 477.00	309.28 309.07	449.91 484.36	10.00 0.00	Landing Point	
	12800.00	90.23	359.66	12308.46	576.99	308.48	584.31	0.00		
	12900.00	90.23	359.66	12308.05	676.99	307.89	684.26	0.00		
	13000.00	90.23	359.66	12307.65	776.99	307.29	784.22	0.00		
	13100.00	90.23	359.66	12307.24	876.99	306.70	884.17	0.00		
	13200.00	90.23	359.66	12306.84	976.98	306.10	984.13	0.00		
	13300.00	90.23	359.66	12306.43	1076.98	305.51	1084.08	0.00		
	13400.00	90.23	359.66	12306.03	1176.98	304.92	1184.03	0.00		
	13500.00 13600.00	90.23 90.23	359.66 359.66	12305.62 12305.22	1276.98 1376.97	304.32 303.73	1283.99 1383.94	0.00 0.00		
	13700.00	90.23	359.66	12304.81	1476.97	303.13	1483.89	0.00		
	13800.00	90.23	359.66	12304.41	1576.97	302.54	1583.85	0.00		
	13900.00	90.23	359.66	12304.01	1676.97	301.95	1683.80	0.00		
	14000.00	90.23	359.66	12303.60	1776.96	301.35	1783.75	0.00		
	14100.00	90.23	359.66	12303.20	1876.96	300.76	1883.71	0.00		
	14200.00	90.23	359.66	12302.79	1976.96	300.16	1983.66	0.00		
	14300.00	90.23	359.66	12302.39	2076.96	299.57	2083.61	0.00		
	14400.00	90.23	359.66	12301.98	2176.95	298.98	2183.57	0.00		
	14500.00 14600.00	90.23 90.23	359.66 359.66	12301.58 12301.17	2276.95 2376.95	298.38 297.79	2283.52 2383.47	0.00 0.00		
	14700.00	90.23	359.66	12300.77	2476.95	297.20	2483.43	0.00		
	14800.00	90.23	359.66	12300.36	2576.94	296.60	2583.38	0.00		
	14900.00	90.23	359.66	12299.96	2676.94	296.01	2683.34	0.00		
	15000.00	90.23	359.66	12299.55	2776.94	295.41	2783.29	0.00		
	15100.00	90.23	359.66	12299.15	2876.93	294.82	2883.24	0.00		
	15200.00	90.23	359.66	12298.75	2976.93	294.23	2983.20	0.00		
	15300.00	90.23	359.66	12298.34	3076.93	293.63	3083.15	0.00		
	15400.00 15500.00	90.23 90.23	359.66 359.66	12297.94 12297.53	3176.93 3276.92	293.04 292.44	3183.10 3283.06	0.00 0.00		
	15600.00	90.23	359.66	12297.53	3376.92	292.44	3383.00	0.00		
	15700.00	90.23	359.66	12296.72	3476.92	291.26	3482.96	0.00		
	15800.00	90.23	359.66	12296.32	3576.92	290.66	3582.92	0.00		
	15900.00	90.23	359.66	12295.91	3676.91	290.07	3682.87	0.00		
	16000.00	90.23	359.66	12295.51	3776.91	289.47	3782.82	0.00		
	16100.00	90.23	359.66	12295.10	3876.91	288.88	3882.78	0.00		
	16200.00	90.23	359.66	12294.70	3976.91	288.29	3982.73	0.00		
	16300.00 16400.00	90.23 90.23	359.66 359.66	12294.29 12293.89	4076.90 4176.90	287.69 287.10	4082.69 4182.64	0.00 0.00		
	16500.00	90.23	359.66	12293.49	4176.90	286.50	4282.59	0.00		
	16600.00	90.23	359.66	12293.08	4376.90	285.91	4382.55	0.00		
	16700.00	90.23	359.66	12292.68	4476.89	285.32	4482.50	0.00		
	16800.00	90.23	359.66	12292.27	4576.89	284.72	4582.45	0.00		
	16900.00	90.23	359.66	12291.87	4676.89	284.13	4682.41	0.00		
	17000.00	90.23	359.66	12291.46	4776.89	283.53	4782.36	0.00		
	17100.00	90.23	359.66	12291.06	4876.88	282.94	4882.31	0.00		
	17200.00 17300.00	90.23 90.23	359.66 359.66	12290.65 12290.25	4976.88 5076.88	282.35 281.75	4982.27 5082.22	0.00 0.00		
	17400.00	90.23	359.66	12289.84	5176.88	281.16	5182.17	0.00		
	17500.00	90.23	359.66	12289.44	5276.87	280.57	5282.13	0.00		
	17600.00	90.23	359.66	12289.03	5376.87	279.97	5382.08	0.00		
	17700.00	90.23	359.66	12288.63	5476.87	279.38	5482.03	0.00		
	17800.00	90.23	359.66	12288.22	5576.87	278.78	5581.99	0.00		
	17900.00	90.23	359.66	12287.82	5676.86	278.19	5681.94	0.00		
	18000.00	90.23	359.66	12287.42	5776.86	277.60	5781.90	0.00		
	18100.00 18200.00	90.23 90.23	359.66 359.66	12287.01 12286.61	5876.86 5976.85	277.00 276.41	5881.85 5981.80	0.00 0.00		
	18300.00	90.23	359.66	12286.20	6076.85	275.81	6081.76	0.00		
	18400.00	90.23	359.66	12285.80	6176.85	275.22	6181.71	0.00		
	18500.00	90.23	359.66	12285.39	6276.85	274.63	6281.66	0.00		
	18600.00	90.23	359.66	12284.99	6376.84	274.03	6381.62	0.00		
	18700.00	90.23	359.66	12284.58	6476.84	273.44	6481.57	0.00		
	18800.00	90.23	359.66	12284.18	6576.84	272.84	6581.52	0.00		
	18900.00	90.23	359.66	12283.77	6676.84	272.25	6681.48	0.00		
	19000.00	90.23	359.66	12283.37	6776.83	271.66	6781.43	0.00		
	19100.00	90.23	359.66	12282.96	6876.83	271.06	6881.38	0.00		
	19200.00 19300.00	90.23 90.23	359.66 359.66	12282.56 12282.16	6976.83 7076.83	270.47 269.87	6981.34 7081.29	0.00 0.00		
	19300.00	90.23	359.66	12282.10	7176.82	269.28	7181.25	0.00		

evon		County: Wellbore:			Com 731H				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	90.23	359.66	12281.35	7276.82	268.69	7281.20	0.00	
	19600.00	90.23	359.66	12280.94	7376.82	268.09	7381.15	0.00	
	19700.00	90.23	359.66	12280.54	7476.82	267.50	7481.11	0.00	
	19800.00	90.23	359.66	12280.13	7576.81	266.90	7581.06	0.00	
	19900.00	90.23	359.66	12279.73	7676.81	266.31	7681.01	0.00	
	20000.00	90.23	359.66	12279.32	7776.81	265.72	7780.97	0.00	
	20100.00	90.23	359.66	12278.92	7876.81	265.12	7880.92	0.00	
	20200.00	90.23	359.66	12278.51	7976.80	264.53	7980.87	0.00	
	20300.00	90.23	359.66	12278.11	8076.80	263.94	8080.83	0.00	
	20400.00	90.23	359.66	12277.70	8176.80	263.34	8180.78	0.00	
	20500.00	90.23	359.66	12277.30	8276.80	262.75	8280.73	0.00	
	20600.00	90.23	359.66	12276.90	8376.79	262.15	8380.69	0.00	
	20700.00	90.23	359.66	12276.49	8476.79	261.56	8480.64	0.00	
	20800.00	90.23	359.66	12276.09	8576.79	260.97	8580.59	0.00	
	20900.00	90.23	359.66	12275.68	8676.79	260.37	8680.55	0.00	
	21000.00	90.23	359.66	12275.28	8776.78	259.78	8780.50	0.00	
	21100.00	90.23	359.66	12274.87	8876.78	259.18	8880.46	0.00	
	21200.00	90.23	359.66	12274.47	8976.78	258.59	8980.41	0.00	
	21300.00	90.23	359.66	12274.06	9076.77	258.00	9080.36	0.00	
	21400.00	90.23	359.66	12273.66	9176.77	257.40	9180.32	0.00	
	21500.00	90.23	359.66	12273.25	9276.77	256.81	9280.27	0.00	
	21600.00	90.23	359.66	12272.85	9376.77	256.21	9380.22	0.00	
	21700.00	90.23	359.66	12272.44	9476.76	255.62	9480.18	0.00	
	21800.00	90.23	359.66	12272.04	9576.76	255.03	9580.13	0.00	
	21900.00	90.23	359.66	12271.64	9676.76	254.43	9680.08	0.00	
	22000.00	90.23	359.66	12271.23	9776.76	253.84	9780.04	0.00	
	22100.00	90.23	359.66	12270.83	9876.75	253.24	9879.99	0.00	
	22200.00	90.23	359.66	12270.42	9976.75	252.65	9979.94	0.00	
	22300.00	90.23	359.66	12270.02		252.06	10079.90	0.00	
	22400.00	90.23	359.66	12269.61	10176.75	251.46	10179.85	0.00	
	22468.19	90.23	359.66		10244.94	251.06	10248.01	0.00	exit
	22500.00	90.23	359.66	12269.21	10276.74	250.87	10279.81	0.00	
	22548.19	90.23	359.66	12269.00	10324.94	250.63	10327.98	0.00	BHL

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		Van D- D	- 22 20 F 1 -	Com 70411				Condition Burtown U.S. Contr. Store 1000	
	County: Wellbore:	Lea	h 33-28 Fed C	LOM /31H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927	
		Permit Plan	#1					Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)	
MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)		



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

# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

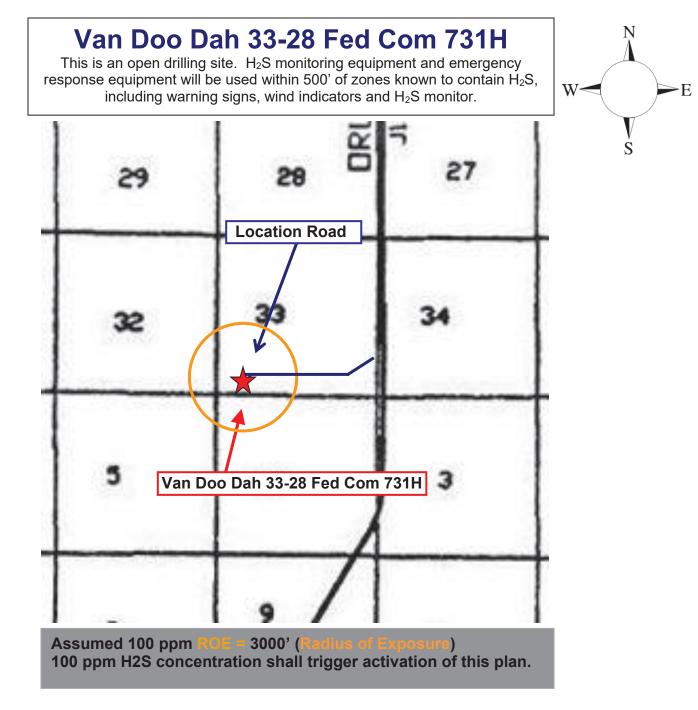
## Van Doo Dah 33-28 Fed Com 731H

Sec-33 T-25S R-32E 200' FSL & 675' FWL LAT. = 32.0801789 N (NAD83) LONG = 103.6864959 W

Lea County NM

Revision 3/10/2022

Released to Imaging: 6/15/2023 2:45:35 PM



## Escape

Crews shall escape upwind of escaping gas in the event of an emergency release of gas. Escape can be facilitated from the location entrance road. Crews should then block the entrance to the location from the lease road so as not to allow anyone traversing into a hazardous area. The blockade should be at a safe distance outside of the ROE. <u>There are no homes or buildings in or near the ROE</u>.

Revision 3/10/2022

## Assumed 100 ppm ROE = 3000'

## **100** ppm H<sub>2</sub>S concentration shall trigger activation of this plan.

#### Emergency Procedures

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H<sub>2</sub>S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
  - $\circ$  Detection of H<sub>2</sub>S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

## Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit		Concentration
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	N/A	1000 ppm

## Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

## **Contacting Authorities**

Devon Energy Corp. personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available. The following call list of essential and potential responders has been prepared for use during a release. Devon Energy Corp. Company response must be in coordination with the State of New Mexico's 'Hazardous Materials Emergency Response Plan' (HMER)

## Hydrogen Sulfide Drilling Operation Plan

## I. HYDROGEN SULFIDE (H<sub>2</sub>S) TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- 1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- 4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- 1. The effects of H<sub>2</sub>S metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- 3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan.

There will be weekly  $H_2S$  and well control drills for all personnel in each crew.

## II. HYDROGEN SULFIDE TRAINING

Note: All  $H_2S$  safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain  $H_2S$ .

## 1. Well Control Equipment

- A. Flare line
- B. Choke manifold Remotely Operated
- C. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

#### 2. Protective equipment for essential personnel:

30-minute SCBA units located at briefing areas, as indicated on well site diagram, with escape units available in the top doghouse. As it may be difficult to communicate audibly while wearing these units, hand signals shall be utilized.

Fire extinguishers are located at various locations around the rig. First Aid supplies are located in the top doghouse and the rig manger's office.

#### 3. H<sub>2</sub>S detection and monitoring equipment:

Portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights which activate when H<sub>2</sub>S levels reach 10 ppm and audible sirens which activate at 15 ppm. Sensor locations:

- Bell nipple
- Possum Belly/Shale shaker
- Rig floor
- Choke manifold
- Cellar

## 4. Visual warning systems:

- A. Wind direction indicators as shown on well site diagram
- B. Caution/Danger signs shall be posted on roads providing direct access to locations. Signs will be painted a high visibility yellow with black lettering of sufficient size to be reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

## 5. Mud program:

The mud program has been designed to minimize the volume of  $H_2S$  circulated to surface. Proper mud weight, safe drilling practices and the use of  $H_2S$  scavengers will minimize hazards when penetrating  $H_2S$  bearing zones.

## 6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H<sub>2</sub>S trim.

All elastomers used for packing and seals shall be H<sub>2</sub>S trim.

#### 7. Communication:

- a. Company personnel have/use cellular telephones in the field.
- b. Land line (telephone) communications at Office

## 8. Well testing:

- a. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.
- **b.** There will be no drill stem testing.

Devon	Energy	Corp.	Company	Call List

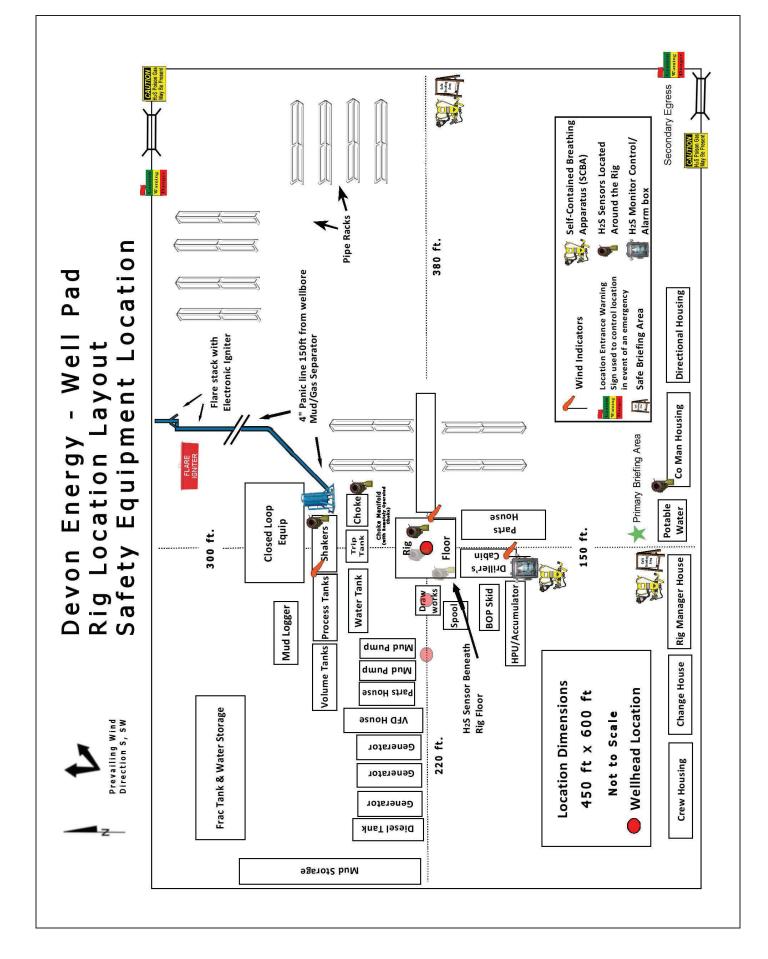
Representative         Number         Number           Jonathan Fisher (North)         Drilling Manager         832-967-7912           Jason Hildebrand (South)         Drilling Manager         405-528-6514           Rich Downey         Drilling VP         405-228-2415           Josh Harvey         EHS Manger         405-228-2415           Josh Harvey         EHS Manger         405-528-534           Robert Glover         EHS Professional         575-703-5712           Laura Wright         EHS 906-552-6534         832-969-8145           Robert Glover         Lead EHS         903-720-8315           Brock Vise         Lead EHS         903-720-8315           Brock Vise         Lead EHS         918-413-3291         918-413-3291           State Police         885-3135         City Police         397-9265           State Police         387-303         City Police         397-9306           State Police         393-8611         Ambulance         911           Fire Department         397-9306         1EPC (Local Emergency Planning Committee)         393-28715           Eddy         Carlsbad         State Police         885-3137           City Police         S85-2113         Sheriff's Office         885-3137 <t< th=""><th></th><th></th><th></th><th></th><th></th></t<>										
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Ambulance         911           Fire Department         885-3125           LEPC (Local Emergency Planning Committee)         887-3796           US Bureau of Land Management (Carlsbad)         (575)-706-1920           (575)-234-5905         (575) 234-5972           BLM – CFO         (575) 234-5972           BLM – PET Petroleum Engineering Tech. ON CALL –         (575) 689-5981           Cement Notifications or Emergency issues.         (505) 476-9600           NM Emergency Response Commission (Santa Fe)         (505) 476-9600           24 HR         (505) 827-9126           National Emergency Response Center         (800) 424-8802           National Pollution Control Center: Direct         (703) 872-6000           For Oil Spills         (800) 280-7116           Emergency Services         (281) 784-4700           Wild Well Control         (281) 784-4700           Cudd Pressure Control         (915) 699-0139         (915) 563-3356	(373)									
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Cudd Pressure Control         (915) 699-0139         (915) 563-3356					(281) 784-4700					
			(91)	5) 699-0139	<b>\</b> /					
			(01)	,	(575) 746-2757					

	B. J. Services	(575) 746-3569
Give	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
position:	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118
	BNSF Railroad Resource Operations	800-832-5452
	NM OSHA – Santa Fe	505-222-9595
	NM OSHA (Reporting)	877-610-6742
		505-476-8700



Revision 3/10/2022

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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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	226803
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	6/15/2023
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	6/15/2023
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	6/15/2023
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	6/15/2023

CONDITIONS

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Action 226803