Form 3160-3 (June 2015)		FORM APPRO OMB No. 1004 Expires: January	-0137		
UNITED STATES DEPARTMENT OF THE IN BUREAU OF LAND MANA	NTERIOR	5. Lease Serial No.			
APPLICATION FOR PERMIT TO DI		6. If Indian, Allotee or Trib	be Name		
1a. Type of work:   DRILL   RE	EENTER	7. If Unit or CA Agreemen	t, Name and No.		
1b. Type of Well: Oil Well Gas Well Ot	her	8. Lease Name and Well N			
1c. Type of Completion: Hydraulic Fracturing Sin	ngle Zone 🗌 Multiple Zone	o. Lease Ivallie and well iv	0.		
2. Name of Operator		9. API Well No. 30-015-49258			
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Expl	oratory		
4. Location of Well (Report location clearly and in accordance w	vith any State requirements.*)	11. Sec., T. R. M. or Blk. a	nd Survey or Area		
At surface					
At proposed prod. zone					
14. Distance in miles and direction from nearest town or post office	ce*	12. County or Parish	13. State		
<ul> <li>15. Distance from proposed*         <ul> <li>location to nearest             property or lease line, ft.             (Also to nearest drig. unit line, if any)</li> </ul> </li> </ul>	16. No of acres in lease 17. Spaci	ng Unit dedicated to this wel	1		
<ol> <li>Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.</li> </ol>	19. Proposed Depth 20. BLM	/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration			
	24. Attachments				
The following, completed in accordance with the requirements of (as applicable)	Onshore Oil and Gas Order No. 1, and the I	Hydraulic Fracturing rule per	43 CFR 3162.3-3		
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> </ol>	4. Bond to cover the operation Item 20 above).	ns unless covered by an existing	ng bond on file (see		
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office)		rmation and/or plans as may b	e requested by the		
25. Signature	Name (Printed/Typed)	Date			
Title					
Approved by (Signature)	Name (Printed/Typed)	Date			
Title	Office				
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal or equitable title to those rights	in the subject lease which w	ould entitle the		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of			partment or agency		



(Continued on page 2)

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# **Additional Operator Remarks**

## Location of Well

0. SHL: SESW / 776 FSL / 2438 FWL / TWSP: 20S / RANGE: 28E / SECTION: 26 / LAT: 32.539393 / LONG: -104.149214 ( TVD: 0 feet, MD: 0 feet ) PPP: SESW / 440 FSL / 2550 FWL / TWSP: 20S / RANGE: 28E / SECTION: 26 / LAT: 32.5384695 / LONG: -104.1488584 ( TVD: 8544 feet, MD: 8581 feet ) PPP: SESE / 408 FSL / 190 FEL / TWSP: 20S / RANGE: 28E / SECTION: 27 / LAT: 32.5382809 / LONG: -104.1578364 ( TVD: 8882 feet, MD: 11500 feet ) PPP: SWSE / 411 FSL / 1490 FEL / TWSP: 20S / RANGE: 28E / SECTION: 27 / LAT: 32.5382867 / LONG: -104.1620543 ( TVD: 8860 feet, MD: 12800 feet ) PPP: SWSE / 411 FSL / 1490 FEL / TWSP: 20S / RANGE: 28E / SECTION: 27 / LAT: 32.5382879 / LONG: -104.1620543 ( TVD: 8860 feet, MD: 12800 feet ) PPP: SWSW / 419 FSL / 1209 FWL / TWSP: 20S / RANGE: 28E / SECTION: 27 / LAT: 32.5382079 / LONG: -104.17049 ( TVD: 8814 feet, MD: 15400 feet ) PPP: SESE / 423 FSL / 191 FEL / TWSP: 20S / RANGE: 28E / SECTION: 28 / LAT: 32.5383037 / LONG: -104.1750323 ( TVD: 8789 feet, MD: 16800 feet ) BHL: SWSW / 440 FSL / 20 FWL / TWSP: 20S / RANGE: 28E / SECTION: 28 / LAT: 32.538417 / LONG: -104.191527 ( TVD: 8699 feet, MD: 21909 feet )

# **BLM Point of Contact**

Name: Candy Vigil Title: LIE Phone: (575) 234-5982 Email: cvigil@blm.gov Г

88210 8-9720 M 87410	nerals & 1 CONSEI 1220 SOUT	Natural H RVATIC TH ST. FI	Resources De DN DIVIS RANCIS DR.	-		Revised Au bmit one copy to	orm C-102 agust 1, 2011 5 appropriate ct Office
						AMENDI	ED REPORT
WELL L(	DCATION A	ND ACREA	GE DEDICATI	ON PLAT			
	Pool Code				ne		
	3713			<u>E SPRING</u>	EAS		hon
BUR	TON FLAT			ОМ			
DEVICE							
DEVON				, L.P.		3244	1.6'
	Lot Idn Fe		·		the 1		County
						WEST	EDDY
1							
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	Code Order		300111	20		VVLJI	
ULL BE ASSIGNED	TO THIS COL	WPLETION I	INTIL ALL INTER	ESTS HAVE	E BEE	N CONSOLIDA	
7 [E:590370.98] 4 89'45'31" E N 89'44'44' 2659.23" 2648.05 B A G F DC G H G F C Z C N:561861.49 E:590352.01 U C C K C C C K C C C K C C C C C C C C C C C C C C C C C C C	E:593019.01 E E N 89'44'21" - 26'48,86 - 6' - 6' - 6' - 7205 R26E - 7205 R26	E 95667.84 E N 89'52'06 2653.70 2653.70 2653.70 2653.70 2653.70 27 27 27 27 27 27 27 27 27 27	2653,92 26 T20S-R28E	N:561893.36 E:600953.87 **0 **0 **0 **0 **0 **0 **0 **0 **0 **	I he: herein is my knowley organizatio organizatio organizatio or unlease or to a vo compulsor; by the div Signatur CHEL Printed E-mail As SURV: I he; shore of aunder my true and or	reby certify that the true and complete to dage and belief, and on either owns a word dimersite interest in the proposed bottom ight to drill this we ursuant to a contrace untary pooling agree y pooling order herei ision. SEY GREEN SEY GREEN SEY GREEN SEY GREEN SEY GREEN SEY GREEN SEY CERTIFIC reby certify that the this plat was plotted clual surveys made supervision, and tha order of Survey & Sell Att Proteet Set Control of Survey & Sell Att Proteet Set Survey & Sell Att Proteet Set Survey & Sell Att Proteet Supervision of Survey & Supervision of Supervision of Supervision of Survey & Supervision of Survey & Supervision of Supervision	information of the best of that this king interest hole location if at this twith an informerest, ment or a lofore entered 08/30/21 Date 0VN.COM CATION well location from field by me or the same is f my belief.
	01L       01L         88210       01L         88210       01L         01L       <	Energy, Minerals & I         01L       CONSET         88210       1220       SOU'         Santa Fe,       334-6170       Santa Fe,         NM 87505       WELL LOCATION A       Pool Code         3713       BURTON FLAT       DEVON ENERGY I         DEVON ENERGY I       S         Township       Range       Lot Idn         20-S       28-E       S         Township       Range       Lot Idn       Fe         20-S       28-E       S         Township       Range       Lot Idn       Fe         20-S       28-E       S         VILL BE ASSIGNED TO THIS COI       Order       Order         VILL BE ASSIGNED TO THIS COI       OR A NON-STANDARD UNIT       Essain and and and and and and and and and an	Base of Line regy, Minerals & Natural FOIL CONSERVATIOB82101220 SOUTH ST. FISanta Fe, New Me:Santa Fe, New Me:334-0170MELL LOCATION AND ACREAPool Code3713Property NamBURTON FLAT 26-28 FOperator NamDEVON ENERGY PRODUCTISurface LocaTownship20-S28-E776Bottom Hole Location If DiffeTownship20-S28-E440or InfillConsolidation CodeOrder No.VILL BE ASSIGNED TO THIS COMPLETION U OR A NON-STANDARD UNIT HAS BEENOF 2659 23' EN 8974744* EN 89	OIL CONSERVATION DIVIS 88210 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 WELL LOCATION AND ACREAGE DEDICATI Pool Code 3713 WELL LOCATION AND ACREAGE DEDICATI Pool Code 3713 AVALON ; BON Property Name BURTON FLAT 26-28 FED STATE C Operator Name DEVON ENERGY PRODUCTION COMPANY Surface Location Township Range Lot Idn Feet from the North/South line 20-S 28-E 776 SOUTH Bottom Hole Location If Different From Sur Township Range Lot Idn Feet from the North/South line 20-S 28-E 440 SOUTH Township Range Lot Idn Feet from the North/South line 20-S 28-E 440 SOUTH WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTEH OR A NON-STANDARD UNIT HAS BEEN APPROVED BY NISSENSION	Basendo       OIL       CONSERVATION DIVISION         OIL       CONSERVATION DIVISION         Narraio       Santa Fe, New Mexico 87505         Narraio       Santa Fe, New Mexico 87505         WELL LOCATION AND ACREAGE DEDICATION PLAT       Pool Code         Pool Code       Pool Net         3713       AVALON; BONE SPRING         Property Name       BURTON FLAT 26-28 FED STATE COM         Operator Name       DEVON ENERGY PRODUCTION COMPANY, L.P.         Surface Location       SouTH         Tornship       Range       Lot Idn         20-S       28-E       Torn the         Yorder No.       SouTH       20         vill       Consolidation Code       Order No.         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVI OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISI         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVI OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISI         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVI OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISI         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVI OR A NON-STANDARD         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS         VILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS         VILEGEORDAR         VILEGEORDAR     <	See Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505       Sufficiency of the second state of the second st	Biology, Minorals & Natural Resources Department OIL CONSERVATION DIVISION 1220 SOUTH ST. PRANCIS DR. Submit do construct at Santa Fe, New Mexico 87505       Submit do construct at Submit do construct at Submit do construct at Submit do construct at Submit do construct at Distri- submit do construct at Pool Name         WELL LOCATION AND ACREACE DEDICATION FLAT Pool Name       Of Name         WELL LOCATION AND ACREACE DEDICATION FLAT Pool Name       Well Num         BURTON FLAT 26-28 FPD STATE COM       535 Operator Name       State For Operator Name         BURTON FLAT 26-28 FPD STATE COM       535 Operator Name       State For Operator Name       State For South 24.38         Township       Range       Lot Ma       Peet from the SOUTH       Peet from the SOUTH       Peet from the SOUTH       State For SOUTH         20-S       28-E       Lot Ma       Peet from the A440       SOUTH       20       WEST         Bottom Hole Location If Different From Surface       WEST       WEST       WEST         NULL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLD/ OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION       Interfer of the Construct of the South Association of the Southassociatin the South Association of the South Associat

Intent As Drilled	]	
API #		
Operator Name:	Property Name:	Well Number

## Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

#### First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

## Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longituc	le			NAD

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

Is this well an infill well?

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

	E		te of New Mex and Natural Res	tico ources Departme	nt		Submit Electronically Via E-permitting
		1220 \$	onservation Di South St. Fran Ita Fe, NM 87	cis Dr.			
	N	ATURAL G	AS MANA	GEMENT PI	LAN		2
This Natural Gas Manag	gement Plan m	ust be submitted w	ith each Applicat	ion for Permit to D	Drill (Al	PD) for a ne	w or recompleted well
			1 – Plan D ffective May 25,				
I. Operator: DEVON E	NERGY PRODUC	TION COMPANY, LP	OGRID:	6137		Date:	/ 25 / 2022
II. Type: 🖾 Original 🛛	Amendment	due to □ 19.15.27	.9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	6)(b) N	IMAC 🗆 Otl	ner.
If Other, please describe	2:						
III. Well(s): Provide the be recompleted from a s					vells pr	oposed to be	e drilled or proposed to
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D		cipated MCF/D	Anticipated Produced Water BBL/D
See attachment							
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following informa			vell or s		15.27.9(D)(1) NMAC
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		Initial Flo Back Dat	
See attachment							
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	tices: X Attac of 19.15.27.8 nt Practices: E	h a complete desc NMAC.	ription of the ac	tions Operator will	l take t	o comply w	ith the requirements of

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#### NATURAL GAS MANAGEMENT PLAN

Section 1 - Plan Description

[II. 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.

							Anticipated Oil	Anticipated Gas	Anticipated Produced Water	Central Delivery Point
Well Name	API	ULSTR		FOOTA	GES		BBL/D	MCF/D	BBL/D	Name:
BURTON FLAT 26-28 Fed State Com 331H		26-205-28E	785	FNL	2111	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 621H		26-20S-28E	802	FNL	2086	FWL	(+/-)1245bopd	(+/-)2995mcfd	(+/-)3115bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 332H		26-20S-28E	818	FNL	2061	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 622H		26-205-28E	1951	FNL	2518	FWL	(+/-)1245bopd	(+/-)2995mcfd	(+/-)3115bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 333H		26-20S-28E	1981	FNL	2518	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 334H		26-20S-28E	2011	FNL	2518	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 620H		26-20S-28E	2041	FNL	2518	FWL	(+/-)1245bopd	(+/-)2995mcfd	(+/-)3115bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 623H		26-20S-28E	866	FSL	2438	FWL	(+/-)1245bopd	(+/-)2995mcfd	(+/-)3115bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 335H		26-20S-28E	836	FSL	2438	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 624H		26-20S-28E	806	FSL	2438	FWL	(+/-)1245bopd	(+/-)2995mcfd	(+/-)3115bwpd	BFDU 26 FACILITY 1
BURTON FLAT 26-28 Fed State Com 336H		26-20S-28E	776	FSL	2438	FWL	(+/-)973bopd	(+/-)2194mcfd	(+/-)2965bwpd	BFDU 26 FACILITY 1

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 pad or connected to a central delivery point.

				Completion		First
		1	TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
BURTON FLAT 26-28 Fed State Com 331H	n/a	6/7/2022	7/7/2022	11/4/2022	11/4/2022	11/4/2022
BURTON FLAT 26-28 Fed State Com 621H	n/a	4/28/2022	5/28/2022	9/25/2022	9/25/2022	9/25/2022
BURTON FLAT 26-28 Fed State Com 332H	n/a	5/22/2022	6/21/2022	10/19/2022	10/19/2022	10/19/2022
BURTON FLAT 26-28 Fed State Com 622H	n/a	4/29/2022	5/29/2022	9/26/2022	9/26/2022	9/26/2022
BURTON FLAT 26-28 Fed State Corn 333H	n/a	5/23/2022	6/22/2022	10/20/2022	10/20/2022	10/20/2022
BURTON FLAT 26-28 Fed State Com 334H	n/a	6/7/2022	7/7/2022	11/4/2022	11/4/2022	11/4/2022
BURTON FLAT 26-28 Fed State Com 620H	n/a	7/19/2022	8/18/2022	12/16/2022	12/16/2022	12/16/2022
BURTON FLAT 26-28 Fed State Com 623H	n/a	5/27/2022	6/26/2022	10/24/2022	10/24/2022	10/24/2022
BURTON FLAT 26-28 Fed State Com 335H	n/a	6/19/2022	7/19/2022	11/16/2022	11/16/2022	11/16/2022
BURTON FLAT 26-28 Fed State Com 624H	n/a	5/3/2022	6/2/2022	9/30/2022	9/30/2022	9/30/2022
BURTON FLAT 26-28 Fed State Com 336H	n/a	7/3/2022	8/2/2022	11/30/2022	11/30/2022	11/30/2022

\* 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. 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. 
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: Lindsey N. Miles
Title: Land Manager
E-mail Address:
Date:
Phone:
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



#### 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



VIII. Best Management Practices during Maintenance

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.

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### 1. Geologic Formations

TVD of target	8700	Pilot hole depth	N/A
MD at TD:	21909	Deepest expected fresh water	

Basin

	Donth	Water/Mineral	
<b>T</b> 4	Depth		<b>TT T A</b>
Formation	(TVD)	<b>Bearing/Target</b>	Hazards*
	from KB	Zone?	
Rustler	85		
Salt	241		
Base of Salt	500		
Lamar	616		
Capitan Reef Top	1088		
Delaware	3012		
Cherry Canyon	3202		
Brushy Canyon	3849		
1st Bone Spring Lime	5399		
Bone Spring 1st	6583		
Bone Spring 2nd	7263		
3rd Bone Spring Lime	7615		
Bone Spring 3rd	8544		

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

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Top (MD)	Bottom (MD)	Top (TVD)	Bottom (TVD)
26	20	94.0	J-55	STC	0	110 MD	0	110 TVD
17 1/2	13 3/8	48.0	H40	BTC	0	1038 MD	0	1038 TVD
12 1/4	9 5/8	40.0	J-55	BTC	0	2987 MD	0	2987 TVD
8 3/4	5 1/2	17.0	P110	BTC	0	21909 MD	0	8700 TVD

#### 2. Casing Program

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

• The Rustler top will be validated via drilling parameters (i.e. reduction in ROP), and the surface casing setting depth will be revised accordingly. In addition, surface casing will be set a minimum of 25' above the top of the salt.

### BURTON FLAT 26-28 FED COM 336H

Casing	# Sks	тос	Wt. (lb/gal)	Yld (ft3/sack)	Slurry Description
Surface	260	Surf	13.2	1.4	Lead: Class C Cement + additives
Let	152	Surf	9.0	3.3	Lead: Class C Cement + additives
Int	339	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1	242	Surf	9.0	3.3	Lead: Class C Cement + additives
Int 1	154	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Int 1	As Needed	Surf	0.0	3.3	Squeeze Lead: Class C Cement + additives
Intermediate	152	Surf	9.0	3.3	Lead: Class C Cement + additives
Squeeze	339	500' above shoe	13.2	1.4	Tail: Class H / C + additives
Production	673	50' above Capitan	9.0	3.3	Lead: Class H /C + additives
rioduction	2610	КОР	13.2	1.4	Tail: Class H / C + additives

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

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

Casing String	% Excess
Surface	50%
Intermediate and Intermediate 1	30%
Production	10%

#### BURTON FLAT 26-28 FED COM 336H

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:																				
			Anı	Annular		50% of rated working pressure																				
Int	13-5/8"	5M	Blind	l Ram	Х																					
Int	13-5/8	5101	Pipe	Ram		5M																				
			Doub	le Ram	Х	5101																				
			Other*																							
		5M	Anı	nular	Х	50% of rated working pressure																				
Int 1	13-5/8"		5M	514	5M	514	51	514	514	5M	5M	514	514	514	5M	514	514	514	5M	514	5M	5M	Blind	l Ram	Х	
Int I	13-5/8		Pipe	Ram		5M																				
																					Doub	le Ram	Х	JIVI		
			Other*																							
		13-5/8" 5M	Annul	ar (5M)	Х	50% of rated working pressure																				
Production	12 5/9"		Blind	d Ram	Х																					
FIOduction	13-3/0		Pipe Ram			5M																				
				Doub	le Ram	Х	5171																			
			Other*																							

#### BURTON FLAT 26-28 FED COM 336H

#### 5. Mud Program (Four String Design)

Section	Туре	Weight			
	-5 P -	(ppg)			
Surface	WBM	8.5-9			
Intermediate	DBE / Cut Brine	10-10.5			
Intermediate 1	WBM	8.5-9			
Production	WBM	8.5-9			
Sufficient mud materials to maintain mud properties and meet minimum lost circulation					

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

#### 6. Logging and Testing Procedures

Logging, C	oring 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 Report 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	
	Density	
Х	CBL	Production casing
Х	Mud log	KOP to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	4072
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.

Ν	H2S 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 pad.
- 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. At 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



U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

**APD ID:** 10400074216

Well Name: BURTON FLAT 26-28 FED STATE COM

Submission Date: 05/05/2021

Highlighted data reflects the most recent changes

Show Final Text

Well Type: OIL WELL

AFMSS

Well Number: 336H Well Work Type: Drill

# **Section 1 - Geologic Formations**

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing
3821766	UNKNOWN	0	0	0	OTHER : SURFACE	NONE	N
3821767	RUSTLER	-85	85	85	SANDSTONE	NONE	N
3821768	TOP SALT	-241	241	241	SALT	NONE	N
3821769	BASE OF SALT	-500	500	500	ANHYDRITE	NONE	N
3821770	BELL CANYON	-3012	3012	3012	SANDSTONE	NATURAL GAS, OIL	N
3821771	CHERRY CANYON	-3202	3202	3202	SANDSTONE	NATURAL GAS, OIL	N
3821772	BRUSHY CANYON	-3849	3849	3849	SANDSTONE	NATURAL GAS, OIL	N
3821773	BONE SPRING LIME	-5399	5399	5399	LIMESTONE	NATURAL GAS, OIL	Y
3821774	BONE SPRING 1ST	-6583	6583	6583	SANDSTONE	NATURAL GAS, OIL	N
3821775	BONE SPRING 2ND	-7263	7263	7263	SANDSTONE	NATURAL GAS, OIL	N
3821776	BONE SPRING LIME	-7615	7615	7615	LIMESTONE	NATURAL GAS, OIL	N
3821777	BONE SPRING 3RD	-8544	8544	8544	SANDSTONE	NATURAL GAS, OIL	Y
3821778	WOLFCAMP	-8949	8949	8949	SHALE	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.

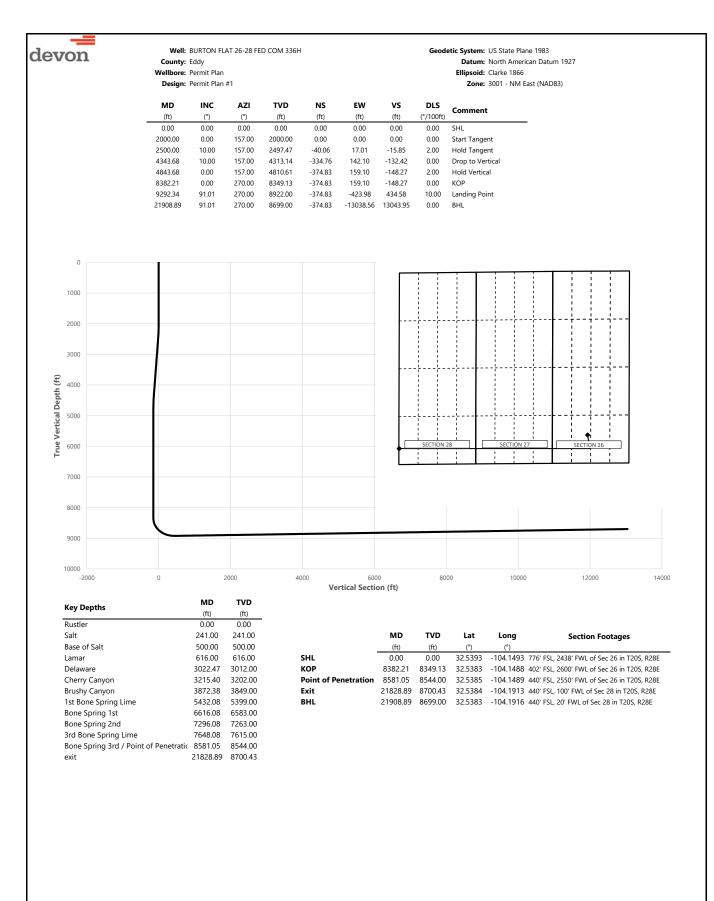
All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills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



devon		Well: County:		AT 26-28 FEI	D COM 336H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
		Wellbore:	Permit Plan						Ellipsoid: Clarke 1866
		Design:	Permit Plan	#1					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
	85.00	0.00	157.00	85.00	0.00	0.00	0.00	0.00	Rustler
	100.00	0.00	157.00	100.00	0.00	0.00	0.00	0.00	
	200.00 241.00	0.00 0.00	157.00 157.00	200.00 241.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Salt
	300.00	0.00	157.00	241.00 300.00	0.00	0.00	0.00	0.00	Salt
	400.00	0.00	157.00	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	157.00	500.00	0.00	0.00	0.00	0.00	Base of Salt,
	600.00	0.00	157.00	600.00	0.00	0.00	0.00	0.00	
	616.00 700.00	0.00 0.00	157.00 157.00	616.00 700.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	Lamar
	800.00	0.00	157.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	157.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	157.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	157.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00 0.00	157.00	1200.00	0.00	0.00	0.00 0.00	0.00 0.00	
	1300.00 1400.00	0.00	157.00 157.00	1300.00 1400.00	0.00 0.00	0.00 0.00	0.00	0.00	
	1500.00	0.00	157.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	157.00	1600.00	0.00	0.00	0.00	0.00	
	1700.00	0.00	157.00	1700.00	0.00	0.00	0.00	0.00	
	1800.00 1900.00	0.00 0.00	157.00 157.00	1800.00 1900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	2000.00	0.00	157.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	157.00	2099.98	-1.61	0.68	-0.64	2.00	
	2200.00	4.00	157.00	2199.84	-6.42	2.73	-2.54	2.00	
	2300.00	6.00	157.00	2299.45	-14.45	6.13	-5.71	2.00	
	2400.00 2500.00	8.00 10.00	157.00 157.00	2398.70 2497.47	-25.66 -40.06	10.89 17.01	-10.15 -15.85	2.00 2.00	Hold Tangent
	2600.00	10.00	157.00	2595.95	-56.05	23.79	-22.17	0.00	hold rangent
	2700.00	10.00	157.00	2694.43	-72.03	30.58	-28.49	0.00	
	2800.00	10.00	157.00	2792.91	-88.02	37.36	-34.82	0.00	
	2900.00	10.00	157.00	2891.39	-104.00	44.15	-41.14	0.00	
	3000.00 3022.47	10.00 10.00	157.00 157.00	2989.87 3012.00	-119.98 -123.58	50.93 52.46	-47.46 -48.88	0.00 0.00	Delaware
	3100.00	10.00	157.00	3088.35	-125.56	57.72	-53.78	0.00	Delawale
	3200.00	10.00	157.00	3186.83	-151.95	64.50	-60.11	0.00	
	3215.40	10.00	157.00	3202.00	-154.42	65.55	-61.08	0.00	Cherry Canyon
	3300.00	10.00	157.00	3285.31	-167.94	71.29	-66.43	0.00	
	3400.00 3500.00	10.00 10.00	157.00 157.00	3383.79 3482.27	-183.92 -199.91	78.07 84.86	-72.75 -79.08	0.00 0.00	
	3600.00	10.00	157.00	3580.75	-215.89	91.64	-85.40	0.00	
	3700.00	10.00	157.00	3679.23	-231.88	98.43	-91.72	0.00	
	3800.00	10.00	157.00	3777.72	-247.86	105.21	-98.04	0.00	
	3872.38	10.00	157.00	3849.00	-259.43	110.12	-102.62	0.00	Brushy Canyon
	3900.00 4000.00	10.00 10.00	157.00 157.00	3876.20 3974.68	-263.84 -279.83	112.00 118.78	-104.37 -110.69	0.00 0.00	
	4000.00	10.00	157.00	4073.16	-279.83 -295.81	125.57	-110.69	0.00	
	4200.00	10.00	157.00	4171.64	-311.80	132.35	-123.34	0.00	
	4300.00	10.00	157.00	4270.12	-327.78	139.14	-129.66	0.00	
	4343.68	10.00	157.00	4313.14	-334.76	142.10	-132.42	0.00	Drop to Vertical
	4400.00 4500.00	8.87 6.87	157.00 157.00	4368.69 4467.74	-343.26 -355.87	145.71 151.06	-135.78 -140.77	2.00 2.00	
	4500.00 4600.00	6.87 4.87	157.00	4467.74 4567.21	-355.87 -365.29	151.06	-140.77 -144.50	2.00	
	4700.00	2.87	157.00	4666.98	-371.51	157.70	-146.96	2.00	
	4800.00	0.87	157.00	4766.92	-374.52	158.97	-148.15	2.00	
	4843.68	0.00	157.00	4810.61	-374.83	159.10	-148.27	2.00	Hold Vertical
	4900.00	0.00	270.00	4866.92	-374.83	159.10 159.10	-148.27	0.00	
	5000.00 5100.00	0.00 0.00	270.00 270.00	4966.92 5066.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	
	5200.00	0.00	270.00	5166.92	-374.83	159.10	-148.27	0.00	
	5300.00	0.00	270.00	5266.92	-374.83	159.10	-148.27	0.00	
	5400.00	0.00	270.00	5366.92	-374.83	159.10	-148.27	0.00	
	5432.08	0.00	270.00	5399.00	-374.83	159.10	-148.27	0.00	1st Bone Spring Lime
	5500.00 5600.00	0.00 0.00	270.00 270.00	5466.92 5566.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	
	5600.00 5700.00	0.00	270.00	5566.92 5666.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00	
	5800.00	0.00	270.00	5766.92	-374.83	159.10	-148.27	0.00	
	5900.00	0.00	270.00	5866.92	-374.83	159.10	-148.27	0.00	
	6000.00	0.00	270.00	5966.92	-374.83	159.10	-148.27	0.00	

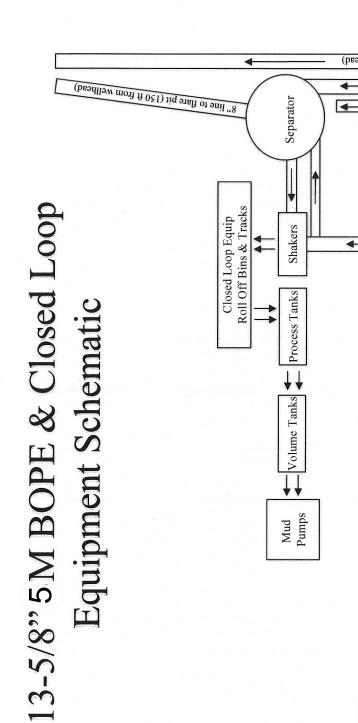
. —		Wall		.AT 26-28 FEI	2 COM 3361	4			Geodetic System: US State Plane 1983
devon		County:		AI 20-2011	5 CON 5501	I			Datum: North American Datum 1927
			Permit Plan	I.					Ellipsoid: Clarke 1866
		Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
-	6100.00	0.00	270.00	6066.92	-374.83	159.10	-148.27	0.00	
	6200.00	0.00	270.00	6166.92	-374.83	159.10	-148.27	0.00	
	6300.00 6400.00	0.00	270.00 270.00	6266.92 6366.92	-374.83	159.10	-148.27 -148.27	0.00 0.00	
	6500.00	0.00 0.00	270.00	6466.92	-374.83 -374.83	159.10 159.10	-148.27	0.00	
	6600.00	0.00	270.00	6566.92	-374.83	159.10	-148.27	0.00	
	6616.08	0.00	270.00	6583.00	-374.83	159.10	-148.27	0.00	Bone Spring 1st
	6700.00	0.00	270.00	6666.92	-374.83	159.10	-148.27	0.00	
	6800.00 6900.00	0.00 0.00	270.00 270.00	6766.92 6866.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	
	7000.00	0.00	270.00	6966.92	-374.83	159.10	-148.27	0.00	
	7100.00	0.00	270.00	7066.92	-374.83	159.10	-148.27	0.00	
	7200.00	0.00	270.00	7166.92	-374.83	159.10	-148.27	0.00	
	7296.08 7300.00	0.00 0.00	270.00 270.00	7263.00 7266.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	Bone Spring 2nd
	7400.00	0.00	270.00	7366.92	-374.83	159.10	-148.27	0.00	
	7500.00	0.00	270.00	7466.92	-374.83	159.10	-148.27	0.00	
	7600.00	0.00	270.00	7566.92	-374.83	159.10	-148.27	0.00	
	7648.08	0.00	270.00	7615.00	-374.83	159.10	-148.27	0.00	3rd Bone Spring Lime
	7700.00 7800.00	0.00 0.00	270.00 270.00	7666.92 7766.92	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	
	7900.00	0.00	270.00	7866.92	-374.83	159.10	-148.27	0.00	
	8000.00	0.00	270.00	7966.92	-374.83	159.10	-148.27	0.00	
	8100.00	0.00	270.00	8066.92	-374.83	159.10	-148.27	0.00	
	8200.00	0.00	270.00	8166.92	-374.83	159.10	-148.27	0.00	
	8300.00 8382.21	0.00 0.00	270.00 270.00	8266.92 8349.13	-374.83 -374.83	159.10 159.10	-148.27 -148.27	0.00 0.00	КОР
	8400.00	1.78	270.00	8366.92	-374.83	158.83	-147.99	10.00	
	8500.00	11.78	270.00	8466.09	-374.83	147.04	-136.21	10.00	
	8581.05	19.88	270.00	8544.00	-374.83	124.95	-114.12	10.00	Bone Spring 3rd / Point of Penetration
	8600.00 8700.00	21.78 31.78	270.00 270.00	8561.71 8650.88	-374.83 -374.83	118.21 73.21	-107.39 -62.41	10.00 10.00	
	8800.00	41.78	270.00	8730.87	-374.83	13.41	-2.64	10.00	
	8900.00	51.78	270.00	8799.26	-374.83	-59.37	70.11	10.00	
	9000.00	61.78	270.00	8853.98	-374.83	-142.92	153.63	10.00	
	9100.00 9200.00	71.78 81.78	270.00 270.00	8893.36 8916.20	-374.83 -374.83	-234.70 -331.92	245.37 342.56	10.00 10.00	
	9292.34	91.01	270.00	8922.00	-374.83	-423.98	434.58	10.00	Landing Point
	9300.00	91.01	270.00	8921.86	-374.83	-431.64	442.23	0.00	-
	9400.00	91.01	270.00	8920.10	-374.83	-531.63	542.18	0.00	
	9500.00 9600.00	91.01 91.01	270.00 270.00	8918.33 8916.56	-374.83 -374.83	-631.61 -731.59	642.12 742.06	0.00 0.00	
	9700.00	91.01	270.00	8914.80	-374.83	-831.58	842.00	0.00	
	9800.00	91.01	270.00	8913.03	-374.83	-931.56	941.95	0.00	
	9900.00	91.01	270.00	8911.26	-374.83	-1031.55	1041.89	0.00	
	10000.00	91.01	270.00	8909.49	-374.83	-1131.53	1141.84	0.00	
	10100.00 10200.00	91.01 91.01	270.00 270.00	8907.73 8905.96	-374.83 -374.83	-1231.52 -1331.50	1241.78 1341.72	0.00 0.00	
	10300.00	91.01	270.00	8904.19	-374.83	-1431.48	1441.66	0.00	
	10400.00	91.01	270.00	8902.42	-374.83	-1531.47	1541.61	0.00	
	10500.00	91.01	270.00	8900.66	-374.83	-1631.45	1641.55	0.00	
	10600.00 10700.00	91.01 91.01	270.00 270.00	8898.89 8897.12	-374.83 -374.83	-1731.44 -1831.42	1741.49 1841.44	0.00 0.00	
	10800.00	91.01	270.00	8895.35	-374.83	-1931.41	1941.38	0.00	
	10900.00	91.01	270.00	8893.59	-374.83	-2031.39	2041.32	0.00	
	11000.00	91.01	270.00	8891.82	-374.83	-2131.38	2141.27	0.00	
	11100.00 11200.00	91.01 91.01	270.00 270.00	8890.05 8888.28	-374.83 -374.83	-2231.36 -2331.34	2241.21 2341.15	0.00 0.00	
	11200.00	91.01 91.01	270.00	8886.52	-374.83 -374.84	-2331.34	2341.13	0.00	
	11400.00	91.01	270.00	8884.75	-374.84	-2531.31	2541.04	0.00	
	11500.00	91.01	270.00	8882.98	-374.84	-2631.30	2640.98	0.00	
	11600.00	91.01 91.01	270.00	8881.21	-374.84	-2731.28	2740.93	0.00	
	11700.00 11800.00	91.01 91.01	270.00 270.00	8879.45 8877.68	-374.84 -374.84	-2831.27 -2931.25	2840.87 2940.81	0.00 0.00	
	11900.00	91.01 91.01	270.00	8875.91	-374.84	-3031.24	3040.75	0.00	
	12000.00	91.01	270.00	8874.15	-374.84	-3131.22	3140.70	0.00	
	12100.00	91.01	270.00	8872.38	-374.84	-3231.20	3240.64	0.00	
	12200.00 12300.00	91.01 91.01	270.00 270.00	8870.61 8868.84	-374.84 -374.84	-3331.19 -3431.17	3340.58 3440.53	0.00 0.00	
	12300.00	91.01 91.01	270.00	8867.08	-374.84 -374.84	-3431.17	3440.53 3540.47	0.00	

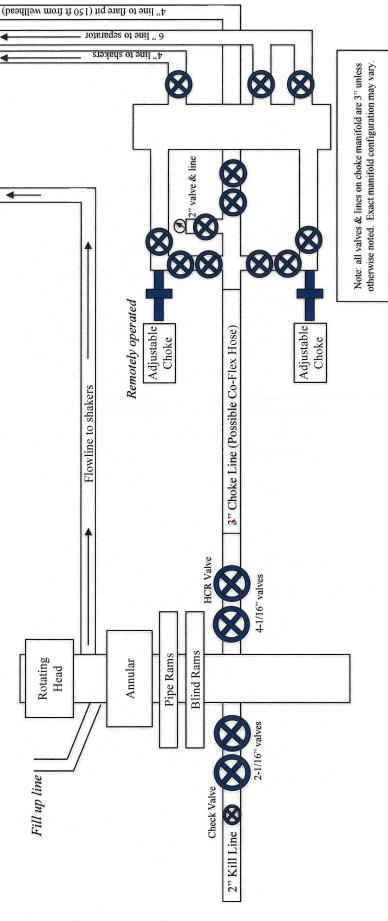
devon				AT 26-28 FEI	D COM 336H				Geodetic System: US State Plane 1983	
devon		County:	Eddy Permit Plan						Datum: North American Datum 1927	
			Permit Plan Permit Plan						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)	
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
-	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)		
	12500.00 12600.00	91.01 91.01	270.00 270.00	8865.31 8863.54	-374.84 -374.84	-3631.14 -3731.13	3640.41 3740.36	0.00 0.00		
	12700.00	91.01	270.00	8861.77	-374.84	-3831.11	3840.30	0.00		
	12800.00	91.01	270.00	8860.01	-374.84	-3931.09	3940.24	0.00		
	12900.00	91.01	270.00	8858.24	-374.84	-4031.08	4040.19	0.00		
	13000.00 13100.00	91.01 91.01	270.00 270.00	8856.47 8854.70	-374.84 -374.84	-4131.06 -4231.05	4140.13 4240.07	0.00 0.00		
	13200.00	91.01	270.00	8852.94	-374.84	-4231.03	4340.01	0.00		
	13300.00	91.01	270.00	8851.17	-374.84	-4431.02	4439.96	0.00		
	13400.00	91.01	270.00	8849.40	-374.84	-4531.00	4539.90	0.00		
	13500.00	91.01	270.00	8847.63	-374.84	-4630.99	4639.84	0.00		
	13600.00 13700.00	91.01 91.01	270.00 270.00	8845.87 8844.10	-374.84 -374.84	-4730.97 -4830.95	4739.79 4839.73	0.00 0.00		
	13800.00	91.01	270.00	8842.33	-374.85	-4930.94	4939.67	0.00		
	13900.00	91.01	270.00	8840.56	-374.85	-5030.92	5039.62	0.00		
	14000.00	91.01	270.00	8838.80	-374.85	-5130.91	5139.56	0.00		
	14100.00	91.01	270.00	8837.03	-374.85	-5230.89	5239.50	0.00		
	14200.00 14300.00	91.01 91.01	270.00 270.00	8835.26 8833.50	-374.85 -374.85	-5330.88 -5430.86	5339.45 5439.39	0.00 0.00		
	14400.00	91.01	270.00	8831.73	-374.85	-5530.84	5539.33	0.00		
	14500.00	91.01	270.00	8829.96	-374.85	-5630.83	5639.28	0.00		
	14600.00	91.01	270.00	8828.19	-374.85	-5730.81	5739.22	0.00		
	14700.00	91.01	270.00	8826.43	-374.85	-5830.80	5839.16	0.00		
	14800.00 14900.00	91.01 91.01	270.00 270.00	8824.66 8822.89	-374.85 -374.85	-5930.78 -6030.77	5939.10 6039.05	0.00 0.00		
	15000.00	91.01	270.00	8821.12	-374.85	-6130.75	6138.99	0.00		
	15100.00	91.01	270.00	8819.36	-374.85	-6230.74	6238.93	0.00		
	15200.00	91.01	270.00	8817.59	-374.85	-6330.72	6338.88	0.00		
	15300.00	91.01	270.00	8815.82	-374.85	-6430.70	6438.82	0.00		
	15400.00 15500.00	91.01 91.01	270.00 270.00	8814.05 8812.29	-374.85 -374.85	-6530.69 -6630.67	6538.76 6638.71	0.00 0.00		
	15600.00	91.01	270.00	8810.52	-374.85	-6730.66	6738.65	0.00		
	15700.00	91.01	270.00	8808.75	-374.85	-6830.64	6838.59	0.00		
	15800.00	91.01	270.00	8806.98	-374.85	-6930.63	6938.54	0.00		
	15900.00	91.01	270.00	8805.22	-374.85	-7030.61	7038.48	0.00		
	16000.00 16100.00	91.01 91.01	270.00 270.00	8803.45 8801.68	-374.85 -374.85	-7130.59 -7230.58	7138.42 7238.36	0.00 0.00		
	16200.00	91.01	270.00	8799.92	-374.85	-7330.56	7338.31	0.00		
	16300.00	91.01	270.00	8798.15	-374.86	-7430.55	7438.25	0.00		
	16400.00	91.01	270.00	8796.38	-374.86	-7530.53	7538.19	0.00		
	16500.00	91.01 91.01	270.00 270.00	8794.61 8792.85	-374.86	-7630.52 -7730.50	7638.14 7738.08	0.00		
	16600.00 16700.00	91.01	270.00	8791.08	-374.86 -374.86	-7830.49	7838.02	0.00 0.00		
	16800.00	91.01	270.00	8789.31	-374.86	-7930.47	7937.97	0.00		
	16900.00	91.01	270.00	8787.54	-374.86	-8030.45	8037.91	0.00		
	17000.00	91.01	270.00	8785.78	-374.86	-8130.44	8137.85	0.00		
	17100.00 17200.00	91.01 91.01	270.00 270.00	8784.01 8782.24	-374.86 -374.86	-8230.42 -8330.41	8237.80 8337.74	0.00 0.00		
	17200.00	91.01 91.01	270.00	8782.24 8780.47	-374.86 -374.86	-8430.39	8437.68	0.00		
	17400.00	91.01	270.00	8778.71	-374.86	-8530.38	8537.63	0.00		
	17500.00	91.01	270.00	8776.94	-374.86	-8630.36	8637.57	0.00		
	17600.00	91.01	270.00	8775.17	-374.86	-8730.34	8737.51	0.00		
	17700.00 17800.00	91.01 91.01	270.00 270.00	8773.40 8771.64	-374.86 -374.86	-8830.33 -8930.31	8837.45 8937.40	0.00 0.00		
	17800.00	91.01 91.01	270.00	8771.64 8769.87	-374.86 -374.86	-9030.30	9037.34 9037.34	0.00		
	18000.00	91.01	270.00	8768.10	-374.86	-9130.28	9137.28	0.00		
	18100.00	91.01	270.00	8766.33	-374.86	-9230.27	9237.23	0.00		
	18200.00	91.01	270.00	8764.57	-374.86	-9330.25	9337.17	0.00		
	18300.00	91.01 91.01	270.00	8762.80 8761.02	-374.86	-9430.24	9437.11	0.00		
	18400.00 18500.00	91.01 91.01	270.00 270.00	8761.03 8759.27	-374.86 -374.86	-9530.22 -9630.20	9537.06 9637.00	0.00 0.00		
	18600.00	91.01	270.00	8757.50	-374.86	-9730.19	9736.94	0.00		
	18700.00	91.01	270.00	8755.73	-374.86	-9830.17	9836.89	0.00		
	18800.00	91.01	270.00	8753.96	-374.87	-9930.16	9936.83	0.00		
	18900.00	91.01	270.00	8752.20	-374.87	-10030.14		0.00		
	19000.00 19100.00	91.01 91.01	270.00 270.00	8750.43 8748.66	-374.87 -374.87	-10130.13 -10230.11		0.00 0.00		
	19100.00	91.01 91.01	270.00	8746.89	-374.87 -374.87	-10230.11		0.00		
	19300.00	91.01	270.00	8745.13	-374.87	-10430.08		0.00		
	19400.00	91.01	270.00	8743.36	-374.87	-10530.06		0.00		

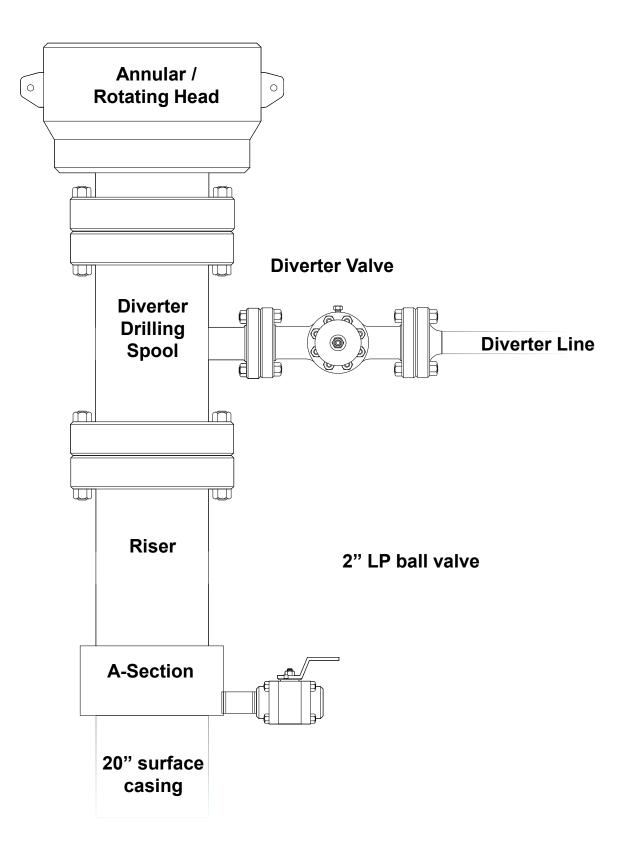
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devon		County:			0.000					North American Datum 19
			Permit Plar	ı					Ellipsoid:	Clarke 1866
		Design:	Permit Plar	n #1					•	: 3001 - NM East (NAD83)
		-								
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment	
	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)		
	19500.00	91.01	270.00	8741.59	-374.87	-10630.05	10636.43	0.00		
	19600.00	91.01	270.00	8739.82	-374.87	-10730.03	10736.37	0.00		
	19700.00	91.01	270.00	8738.06	-374.87	-10830.02	10836.32	0.00		
	19800.00	91.01	270.00	8736.29	-374.87	-10930.00	10936.26	0.00		
	19900.00	91.01	270.00	8734.52	-374.87	-11029.99	11036.20	0.00		
	20000.00	91.01	270.00	8732.75	-374.87	-11129.97	11136.15	0.00		
	20100.00	91.01	270.00	8730.99	-374.87	-11229.95	11236.09	0.00		
	20200.00	91.01	270.00	8729.22	-374.87	-11329.94	11336.03	0.00		
	20300.00	91.01	270.00	8727.45	-374.87	-11429.92	11435.98	0.00		
	20400.00	91.01	270.00	8725.68	-374.87	-11529.91	11535.92	0.00		
	20500.00	91.01	270.00	8723.92	-374.87	-11629.89	11635.86	0.00		
	20600.00	91.01	270.00	8722.15	-374.87	-11729.88	11735.80	0.00		
	20700.00	91.01	270.00	8720.38	-374.87	-11829.86	11835.75	0.00		
	20800.00	91.01	270.00	8718.62	-374.87	-11929.84	11935.69	0.00		
	20900.00	91.01	270.00	8716.85	-374.87	-12029.83	12035.63	0.00		
	21000.00	91.01	270.00	8715.08	-374.87	-12129.81	12135.58	0.00		
	21100.00	91.01	270.00	8713.31	-374.87	-12229.80	12235.52	0.00		
	21200.00	91.01	270.00	8711.55	-374.87	-12329.78	12335.46	0.00		
	21300.00	91.01	270.00	8709.78	-374.88	-12429.77	12435.41	0.00		
	21400.00	91.01	270.00	8708.01	-374.88	-12529.75	12535.35	0.00		
	21500.00	91.01	270.00	8706.24	-374.88	-12629.74	12635.29	0.00		
	21600.00	91.01	270.00	8704.48	-374.88	-12729.72	12735.24	0.00		
	21700.00	91.01	270.00	8702.71	-374.88	-12829.70	12835.18	0.00		
	21800.00	91.01	270.00	8700.94	-374.88	-12929.69	12935.12	0.00		
	21828.89	91.01	270.00	8700.43	-374.88	-12958.58	12964.00	0.00	exit	
	21900.00	91.01	270.00	8699.17	-374.88	-13029.67	13035.06	0.00		
	21908.89	91.01	270.00	8699.00	-374.83	-13038.56	13043.95	0.00	BHL	

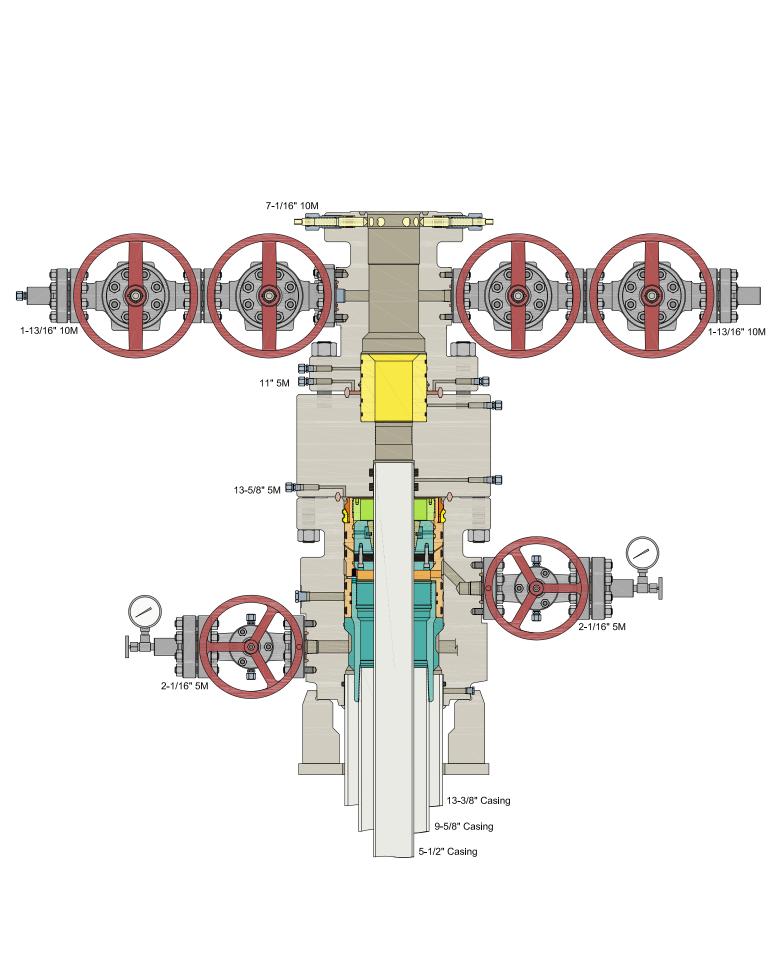
	County: Wellbore:	Eddy Permit Plan	AT 26-28 FED	COM 336H				Geodetic System: US State Plane 1983 Datum: North American Datu Ellipsoid: Clarke 1866	
MD (ft)	Design: INC (°)	Permit Plan <b>AZI</b> (°)	#1 <b>TVD</b> (ft)	NS (ft)	<b>EW</b> (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Zone: 3001 - NM East (NAD	83)

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A multibowl wellhead may be used. The BOP will be tested per Onshore Order #2 after installation on the intermediate 1 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.

Devon proposes using a multi-bowl wellhead assembly. This assembly will only be tested when installed on the intermediate 1 casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate 1 casing shoe shall be 5000 (5M) psi.

- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial BOP test.
- Wellhead company will install a solid steel body pack-off to completely isolate the lower head after cementing intermediate 2 casing. After installation of the pack-off, the pack-off and the lower flange will be tested to 5M, as shown on the attached schematic. Everything above the pack-off will not have been altered whatsoever from the initial nipple up. Therefore the BOP components will not be retested at that time.
- If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head will be cut and top out operations will be conducted.
- Devon will pressure test all seals above and below the mandrel (but still above the casing) to full working pressure rating.
- Devon will test the casing to 0.22 psi/ft or 1500 psi, whichever is greater, as per Onshore Order #2.

After running the intermediate 1 casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 30 days, as per Onshore Order #2. If the well is not complete within 30 days of this BOP test, another full BOP test will be conducted, as per Onshore Order #2.

After running the intermediate 2 casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 5M will already be installed on the wellhead.

The pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These tests will be logged in the daily driller's log. A 2" kill line and 3" choke line will be incorporated into the drilling spool below the ram BOP. In addition to the rams and annular preventer, additional BOP accessories include a kelly cock, floor safety valve, choke lines, and choke manifold rated at 5,000 psi WP.

Devon's proposed wellhead manufactures will be FMC Technologies, Cactus Wellhead, or Cameron.

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

	Devon Energy Production Company LP NMNM108513
LOCATION:	Section 26, T.20 S., R.28 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Burton Flat 26-28 Fed State Com 333H
SURFACE HOLE FOOTAGE:	1981'/N & 2518'/W
<b>BOTTOM HOLE FOOTAGE</b>	2200'/N & 20'/W

WELL NAME & NO.:	Burton Flat 26-28 Fed State Com 335H
SURFACE HOLE FOOTAGE:	836'/S & 2438'/W
<b>BOTTOM HOLE FOOTAGE</b>	1310'/S & 20'/W

WELL NAME & NO.:	Burton Flat 26-28 Fed State Com 336H
SURFACE HOLE FOOTAGE:	776'/S & 2438'/W
<b>BOTTOM HOLE FOOTAGE</b>	440'/S & 20'/W

# COA

H2S	• Yes	🖸 No	
Potash	🖸 None	Secretary	🖸 R-111-P
Cave/Karst Potential	C Low	🖸 Medium	🖸 High
Cave/Karst Potential	Critical		
Variance	🖸 None	🖸 Flex Hose	C Other
Wellhead	Conventional	🖸 Multibowl	🖸 Both
Wellhead Variance	O Diverter		
Other	4 String Area	Capitan Reef	□ WIPP
Other	Fluid Filled	🗆 Pilot Hole	🗆 Open Annulus
Cementing	Cement Squeeze	EchoMeter	
Special Requirements	U Water Disposal	COM	🗌 Unit
Special Requirements	Break Testing	□ Offline	
Variance		Cementing	

# A. HYDROGEN SULFIDE

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

## PM Approval Date: 01/24/2022

# **B.** CASING

- 1. The 20 inch surface casing shall be set at approximately 375 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of  $\underline{\mathbf{8}}$ <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.
- 2. The minimum required fill of cement behind the **13-3/8** inch intermediate casing shall be set at approximately **1038 feet** is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash. Cement excess is less than 25%, more cement might be required.
  - In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
  - In <u>Capitan Reef Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
  - Cement should tie-back at least 50 feet on top of Capitan Reef top or 200 feet into the previous casing, whichever is greater. If cement does not circulate see B.1.a, c-d above.
     Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.

Operator has proposed to pump down 13-3/8" X 9-5/8" annulus after primary cementing stage. <u>Operator must run a CBL from TD of the 9-5/8" 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.

- 4. 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.
     Cement excess is less than 25%, more cement might be required.

#### 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 tested to 500 psi. A Diverter system is approved as a variance to drill the 13-3/8 inch intermediate casing in a 17-1/2 inch hole.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **13-3/8** inch intermediate casing shoe shall be **5000 (5M)** psi.
- c. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **9-5/8** inch intermediate casing shoe shall be **5000 (5M)** psi.

#### **Option 2:**

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be tested to 500 psi. A Diverter system is approved as a variance to drill the 13-3/8 inch intermediate casing in a 17-1/2 inch hole.
- b. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch intermediate casing.
   Minimum working pressure of the blowout preventer (BOP) and related

Page 3 of 9

equipment (BOPE) required for drilling below the intermediate casing shoe shall be **5000 (5M)** psi.

- i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- ii. 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.
- iii. Manufacturer representative shall install the test plug for the initial BOP test.
- iv. 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.
- v. 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.
- 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>

**Approval Date: 01/24/2022** 

## **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) 393-3612
- 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.

#### 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 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.
- B. PRESSURE CONTROL

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

hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

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

**Approval Date: 01/24/2022** 

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.



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

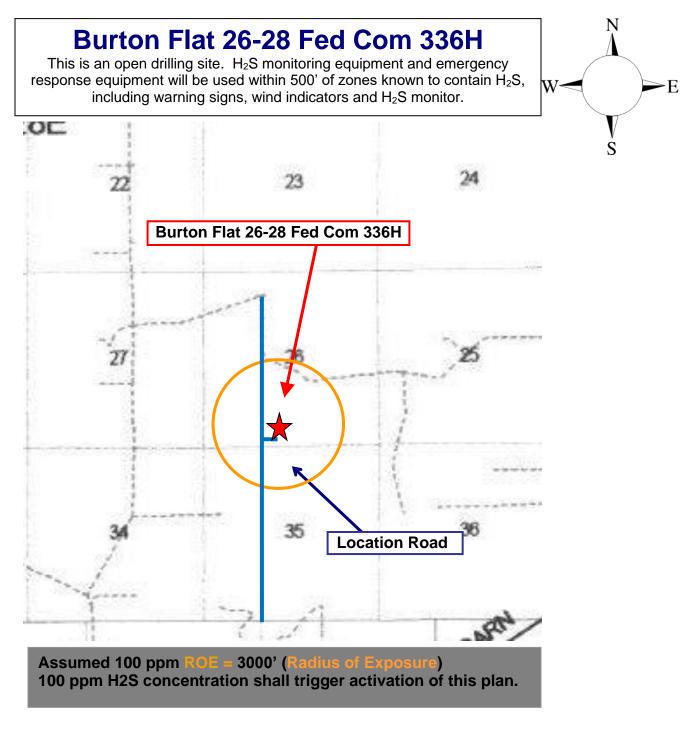
# Hydrogen Sulfide (H<sub>2</sub>S) Contingency Plan

For

## Burton Flat 26-28 Fed Com 336H

Sec-26 T-20S R-28E 776' FSL & 2438' FWL LAT. = 32.539393' N (NAD83) LONG = 104.149214' W

**Eddy County NM** 



#### 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>.

#### 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 Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H <sub>2</sub> S	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<sub>2</sub>S and well control drills conducted for all personnel on 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.

#### 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

#### 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.

#### 4. Mud program:

The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to surface. Proper mud weight, safe drilling practices and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.

#### 5. Metallurgy:

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

#### 6. Communication:

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

#### 7. 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.

Delaware E	Basin Business Unit (D	BBU) Key Company (	Contacts	
Employee/Company Contract Representative	Position	Phone Number	After Hours Number	
Jonathan Fisher (North)	Drilling Manager	832-967-7912		
Jason Hildebrand (South)	Drilling Manager	405-552-6514		
Rich Downey	Drilling VP	405-228-2415		
Josh Harvey	EHS Manager	405-228-2440	918-500-5536	
Laura Wright	EHS Supervisor	405-552-5334	832-969-8145	
Robert Glover	EHS Professional	575-703-5712	575-703-5712	
Lane Frank	Lead EHS	580-579-7052	580-579-7052	
Rickey Porter	Lead EHS	903-720-8315	903-720-8315	
Ronnie Handy	Lead EHS	918-839-2046	918-839-2046	
Brock Vise	Lead EHS	918-413-3291	918-413-3291	
Dela	ware Basin Business L	Jnit (DBBU) Emergend	cy Contacts	
County/Lo				
Police / Sherriff				
Eddy County			575-616-7155	
Lea County			575-397-9265	
Loving County			432-377-2411	
Winkler County			432-586-3461	
Fire				
Eddy County			575-616-7155	
Lea County			575-397-9265	
Loving County			432-377-2411	
Winkler County			432-586-3461	
Ambulance & Hospital				
Eddy County			575-616-7155	
Lea County			575-397-9265	
Carlsbad Medical Center			575-887-4100	
Lea County Regional Medica	l Center		575-492-5000	
Reeves County Hospital Dist			432-447-3551	
Winkler County Memorial He	ospital		432-586-5864	
Helicopter/Lifeline Services				
Aero Care/Life Flight		575-616-7155 Ed	ldy County or 575-397-9265 Le County	
OHSI			844-449-0911	

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d on	re Pipe Racks → → → → → → → → → → → → → → → → → → →	Self-Contained Breathing Apparatus (SCBA) Around the Rig H3S Monitor Control/ Alarm box
Devon Energy - Well Pad Rig Location Layout Safety Equipment Location	150 ft. 150 ft. Iscoronic Igniter Isectronic Isectronic Igniter	450 ft. Also ft
Prevailing Wind Direction S, SW	Trac Tank & Water Storage Generator July Phouse Barts House His Sensor Beneat Rig Floor His Sensor Beneat	Location Dimensions 600 ft × 600 ft Not to Scale Wellhead Location Secondary Egress Crew Housing Change House

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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

#### COMMENTS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	77263
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

#### COMMENTS

Created By	Comment	Comment
		Date
kpickford	Defining well 30-015-49257 BURTON FLAT 26 28 FEDERAL STATE COM #335H	2/7/2022

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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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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

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CONDITIONS

Action 77263

CONDITIONS

Operator:	OGRID:	
DEVON ENERGY PRODUCTION COMPANY, LP	6137	
333 West Sheridan Ave.	Action Number:	
Oklahoma City, OK 73102	77263	
	Action Type:	
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)	

#### CONDITIONS

CONDITION		
Created By	Condition	Condition Date
kpickford	Notify OCD 24 hours prior to casing & cement	2/7/2022
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/7/2022
kpickford	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	2/7/2022
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	2/7/2022
kpickford	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	2/7/2022