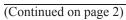
Form 3160-3 (June 2015)		OMB N	APPROVED (o. 1004-0137 anuary 31, 2018				
UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MA	E INTERIOR	7	5. Lease Serial No.				
APPLICATION FOR PERMIT TO			6. If Indian, Allotee	e or Tribe Name			
1a. Type of work: DRILL 1b. Type of Well: Oil Well 1c. Type of Completion: Hydraulic Fracturing	REENTER Other Single Zone [Multiple Zone	7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.				
2. Name of Operator			9. API Well No.	31685]			
2. Name of Operator [6	5137]			30-025-49517			
3a. Address	3b. Phone N	o. (include area code)	10. Field and Pool,	or Exploratory [98270			
4. Location of Well (Report location clearly and in accordance At surface	ce with any State	requirements.*)	11. Sec., T. R. M. o	r Blk. and Survey or Area			
At proposed prod. zone							
14. Distance in miles and direction from nearest town or post	office*		12. County or Paris	h 13. State			
 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 	16. No of ac		Spacing Unit dedicated to the spacing Unit dedicated to the space of t				
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed	a Deptn 20. I	3LM/BIA Bond No. in file				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will start*	23. Estimated durat	tion			
	24. Attac	hments					
The following, completed in accordance with the requirements (as applicable)	s of Onshore Oil	and Gas Order No. 1, and	the Hydraulic Fracturing	rule per 43 CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO must be filed with the appropriate Forest Service Official Service Service Official Service Se		Item 20 above). 5. Operator certification	·	n existing bond on file (see s may be requested by the			
25. Signature	Name	(Printed/Typed)		Date			
Title				<u> </u>			
Approved by (Signature)	Name	(Printed/Typed)		Date			
Title Application approval does not warrant or certify that the appli applicant to conduct operations thereon. Conditions of approval, if any, are attached.	Contract of the cant holds legal of the cant holds leg		ights in the subject lease w	which would entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 of the United States any false, fictitious or fraudulent statement				any department or agency			
NGMP Rec 10/27/2021			-				
		TH CONDITION		KZ 03/2021			
SL	OVED WI	III UM					
(Continued on page 2)	0144	00/20/2021	*(In	estructions on page 2)			



Additional Operator Remarks

Location of Well

0. SHL: SWSE / 180 FSL / 2276 FEL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801407 / LONG: -103.6788356 (TVD: 0 feet, MD: 0 feet) PPP: SWSE / 180 FSL / 2276 FEL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0801407 / LONG: -103.6788356 (TVD: 11910 feet, MD: 11951 feet) PPP: SWSE / 168 FSL / 2351 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.09452 / LONG: -103.679139 (TVD: 12078 feet, MD: 17300 feet) BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.1086183 / LONG: -103.6789567 (TVD: 12031 feet, MD: 22395 feet)

BLM Point of Contact

Name: Candy Vigil Title: LIE Phone: (575) 234-5982 Email: cvigil@blm.gov State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ A	API Numbe	r		² Pool Cod								
30-025	-49517		98	3270	WC-	WC-025 G-07 S253216D;UPPER WOLFCAMP [98270]						
⁴ Property C	⁴ Property Code ⁵ Property Name											
33168	5			714H								
⁷ OGRID N					⁸ Operator	Name				⁹ Elevation		
6137 DEVON ENERGY PRODUCTION COMPANY, L.P. 331									3311.7			
¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
0	33	25 S	32 E		180	SOUTH	2276	EAS	ST	LEA		
			пB	ottom H	ole Location	If Different Fi	om Surface					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
В	28	25 S	32 E		20	NORTH	2310	EAST		LEA		
¹² Dedicated Acres	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code ¹⁵ Order No.											
640												
010												

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

	N88'51'38"E 2661.92 FT N89'21'15"E 2660.69 FT	_	¹⁷ OPERATOR CERTIFICATION
NW CORNER SEC. 28	N/4 CDRNER SEC. 28 LAT. ∓ 32.1086683'N	NE CORNER SEC. 28 	I hereby certify that the information contained herein is true and complete to the
LAT. = 32.1085668'N L LONG. = 103.6886834'W M	LONG. = 103.6800892'W	P LONG. = 103.6714983'W	best of my knowledge and belief, and that this organization either owns a
NMSP EAST (FT) + N = 403829.87	NMSP EAST (FT) N = 403882.79	2 NMSP EAST (FT) 2 N = 403912.78 2 F = 746258.05	working interest or unleased mineral interest in the land including the proposed
N = 403829.87 € E = 740937.30 ♥		N E = 746258.05	bottom hole location or has a right to drill this well at this location pursuant to
* 80	LAST TAKE POINT 100' FNL, 2310' FEL BOTTOM OF HOLE LAT. = 32.1086183'N		a contract with an owner of such a mineral or working interest, or to a
30	LAT. = 32.1083985'N LONG. = 103.6789567'W		voluntary pooling agreement or a compulsory pooling order heretofore entered
W/4 CORNER SEC. 28 0 LAT. = 32.1013805℃N 2	N = 403866.75	8 E/4 CORNER SEC. 28 29 LAT. = 32.1014481'N	by the division.
LONG. = 103.6886378'W NMSP EAST (FT)	<u> E = 743948.87</u>	LONG. = 103.6714776'W NMSP EAST (FT)	Sonner Hannes 11-2-2020
N = 401215.68		= N = 401272.46	
E = 740967.06		р E = 746280.66	Signature U Date
2637		2643	JENNY HARMS
ہ ج	<i> SE<mark>C</mark>_ 28</i>		Printed Name
14,		4,10	JENNY.HARMS@DVN.COM
SECTION CORNER	QUARTER CORNER	SECTION CORNER	E-mail Address
LAT. = 32.0941331′N ≥ LONG. = 103.6886262′W	LAT. = 32.0941449'N N89'33'45''E LONG. = 103.6800514'W N89'17'08''E	ω LAT. = 32.0941915'N LONG. = 103.6714657'W	
NMSP EAST (FT)	2656.07 FT NMSP AST (FT) 2659.49 FT N = 398599.50	NMSP EAST (FT) ⊢ N = 398632.65	
N = 398579.22 E E = 740986.41	K = 39039330 E = 743641.83	E = 746300.54	¹⁸ SURVEYOR CERTIFICATION
10.0		40.0	I hereby certify that the well location shown on this plat was
56	<i> SE</i> C_ 33	. 26	plotted from field notes of actual surveys made by me or under
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	FIFST TAKE POINT 100 FSL, 2310' FEL	4.7"E	my supervision, and that the same is true and correct to the
. 60	LAT. = 32.0799205 N LONG. = 103.6789458 W	9	best of my belief.
W/4 CORNER SEC. 33 O LAT. = 32.0868667'N 2	VAN DOO DAH 33-28	E/4 CORNER SEC. 33	
LONG. = 103.6886534'W	<u>FED COM 714H</u>	LONG. = 103.6714764'W NMSP EAST (FT)	OCTOBER 8, 2020
NMSP EAST (FT) N = 395935.76 ┟	LAT = 32.0801407'N (NAD83)	⊾ N = 395993.26	Date of Survey
E = 740993.81	LONG. = 103.6788356 W NMSP EAST (FT)	$e_{\frac{1}{2}} E = 746313.42$	
632.	N = 393507.27 E = 744049.24	2646.	A AN ANY ANY ANY ANY ANY ANY ANY ANY ANY
SW CORNER SEC. 33 ≥	S/4 CORNER SEC. 33	₽ SE CORNER SEC. 33	
LAT. = 32.0796246 N LONG. = 103.6886766 W	LAT. = 32.079643011 LONG. = 103.68007937V SURFACE	↓ LAT. = 32.0796633'N ↓ LONG. = 103.6714898'W	Signature and Seal of Protectional Sector:
	NMSP EAST (FT)	NMSP EAST (FT)	Certificate Number: FLERCON 5 JARAMELOS PIS 12797
NMSP EAST (FT) 6 N = 393301.16 2 E = 741002.34	N = 393323.8	й N = 393347.47 E = 746325.50	PROFESSION NO. 6907A
2 711002.01	S89'34'04"W 2662.15 FT S89'29'31"W 2661.05 FT		10/ L000A 110.000A

### Received by OCD: 10/27/2021 1:40:21 PM

Х

ļ	lr	J	t	e	r	J.	t

API	#

Operator Name:	Property Name:	Well Number
DEVON ENERGY PRODUCTION COMPANY, L.P.	VAN DOO DAH 33-28 FED COM	714H

## Kick Off Point (KOP)

UL	Section 33	Township 25S	Range 32E	Lot	Feet 38 FSL	From N/S	Feet From E/W		County LEA
Latitu	Latitude						NAD		
32.07965492				-103.67894	4577	83			

## First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
O	33	25S	32E		100	SOUTH	2310	EAST	LEA
Latitu 32.0	^{de} 79920	5			Longitude <b>103.678</b>	9458			NAD 83

## Last Take Point (LTP)

UL B	Section 28	Township 25S	Range 32E	Lot	Feet 100	From N/S NORTH	Feet 2310	From E/W EAST	County LEA
Latitude					Longitud			NAD	
32.1083985				103.6	789559		83		

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

Is this well an infill well?

NO

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	ent	Submit Electronically Via E-permitting					
		1220	onservation Di South St. Fran nta Fe, NM 87	cis Dr.				
	N	ATURAL G	AS MANA	GEMENT P	LAN			
This Natural Gas Manag	gement Plan m	ust be submitted w	vith each Applicat	tion for Permit to I	Drill (APD)	for a new o	r recompleted well.	
			<u>1 – Plan D</u> ffective May 25,					
I. Operator: DEVON EN	ERGY PRODUCT	TION COMPANY, LP	OGRID:	37	D	ate: <u>9</u> /	29 / 2021	
II. Type: 🗵 Original	□ Amendment	due to □ 19.15.27	7.9.D(6)(a) NMA	C 🗆 19.15.27.9.D(	(6)(b) NMA	C 🗆 Other.		
If Other, please describe	:							
<b>III. Well(s):</b> Provide the be recompleted from a s					wells propos	ed to be dr	illed or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipat Gas MCF		Anticipated Produced Water BBL/D	
See attachment.								
IV. Central Delivery P V. Anticipated Schedu proposed to be recomple	le: Provide the	following information					27.9(D)(1) NMAC]	
Well Name	API	Spud Date	TD Reached Date	Completion Commencement		itial Flow ack Date	First Production Date	
See attachment								
VI. Separation Equipn VII. Operational Prac Subsection A through F VIII. Best Managemen during active and planne	tices: I Attac of 19.15.27.8 ht Practices: [	th a complete desc NMAC. Attach a comple	cription of the ac	tions Operator wil	l take to con	nply with	the requirements of	

#### NATURAL GAS MANAGEMENT PLAN Section 1 - Plan Description

#### III. Well(3): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	Central Delivery Point Name:	API	ULSTR		FOO	TAGES			Anticipated Anticipated Gas Anticipated Produced Oil BBL/D MCF/D Water BBL/D
Van Doo Dah 28-33 Fed Com 711H	Marwari 28 CTB 2		28-255-32E	160	FWL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 620H	Marwari 28 CTB 2		28-255-325	190	FWL	475	FNL	WOLFCAMP	{+/-)6539mcfd/{+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 730H	Marwari 28 CTB 2		28-255-32E	220	FWL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 713H	Marwari 28 CTB 2		21-255-32E	1510	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 333H	Marwari 28 CT8 2		21-255-32E	1540	FWL	200	FSL	3BS	(+/-)5959mcfd/(+/-)1596bopd/(+/-)7786bwpd
Van Doo Dah 28-33 Fed Com 733H	Marwari 28 CTB 2		21-255-32E	1570	FWL	200	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 715H	Marwari 28 CTB 2		28-255-32E	1920	FEL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 625H	Marwari 28 CTB 2		28-255-32E	1890	FEL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 735H	Marwari 28 CTB 2		28-255-32E	1860	FEL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 717H	Marwari 28 CT8 1		28-255-32E	715	FEL	325	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 28-33 Fed Com 337H	Marwari 28 CTB 1		28-25S-32E	685	FEL	325	FNL	3BS	(+/-)5959mcfd/(+/-)1596bopd/(+/-)7786bwpd
Van Doo Dah 28-33 Fed Com 737H	Marwari 28 CTB 2		28-255-32E	895	FEL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Com 714H	Marwari 28 CT8 2		28-25S-32E	865	FEL	475	FN1,	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Com 624H	Marwari 28 CTB 2		28-255-32E	835	FEL	475	FNL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Com 734H	Van Doo Dah 33 CTB		33-255-32E	2276	FEL	180	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Com 716H	Van Doo Dah 33 CTB		33-255-32E	851	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Corn 626H	Van Doo Dah 33 CTB		33-255-32E	821	FEL	177	FSL	WOLFCAMP	(+/-)6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
Van Doo Dah 33-28 Fed Com 736H	Van Doo Dah 33 CTB		33-255-32E	791	FEL	177	FSL	WOLFCAMP	{+/-}6539mcfd/(+/-)1857bopd/(+/-)9727bwpd
		_							
						_	-		
						-			

V. Anticipated Schedules 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
			TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
Van Doo Dah 28-33 Fed Com 711H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 620H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 730H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 713H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 333H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 733H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 715H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 625H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 735H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 717N		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 337H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 28-33 Fed Com 737H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 33-28 Fed Com 714H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 33-28 Fed Com 624H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 33-28 Fed Com 734H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 33-28 Fed Com 716H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202
Van Doo Dah 33-28 Fed Com 626H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/2024
Van Doo Dah 33-28 Fed Com 736H		6/9/2024	7/9/2024	11/6/2024	11/6/2024	11/6/202

*Dates above are 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:

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

 $\Box$  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;
- (f) 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.

Signature:
Printed Name: Lindsey 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.

### 1. Geologic Formations

TVD of target	12031	Pilot hole depth	N/A
MD at TD:	22395	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
<b>T</b> 4	_		<b>TT 1</b> th
Formation	(TVD)	<b>Bearing/Target</b>	Hazards*
	from KB	Zone?	
Rustler	995		
Salt	1380		
Lamar	4625		
Delaware	4625		
Cherry Canyon	5580		
Brushy Canyon	7170		
1st Bone Spring Lime	8680		
Bone Spring 1st	9665		
Bone Spring 2nd	10310		
3rd Bone Spring Lime	10805		
Bone Spring 3rd	11415		
Woflcamp	11910		

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

.

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

		Wt	Grade Conn		Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)			From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	1020	0	1020
9 7/8	8 5/8	32	P110	TLW	0	11415	0	11415
7 7/8	5 1/2	17	P110	BTC	0	22395	0	12031

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

### 3. Cementing Program (Primary Design)

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	777	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	469	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Int 1	As Needed	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	469	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	9565	9	3.27	Lead: Class H /C + additives
roduction	1433	11565	13.2	1.44	Tail: Class H / C + additives

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

.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:			
			An	nular	X	50% of rated working pressure			
Int 1	13-58"	5M	Bline	d Ram	Х				
	15-50	5101	Pipe	e Ram		5M			
			Doub	le Ram	Х	5111			
			Other*						
			Annul	ar (5M)	Х	100% of rated working pressure			
Production	13-5/8"	5M	Blind Ram		Х				
Fioduction		15-5/6 5101	13-3/8	JIVI	5101	13-3/8 JIVI	Pipe Ram		
			Doub	le Ram	Х	10101			
			Other*						
			Annul	ar (5M)					
			Blind Ram						
			Pipe Ram						
			Double Ram						
			Other*						
N A variance is requested for	the use of a	a diverter or	the surface	casing. See	attached for	schematic.			
Y A variance is requested to r	run a 5 M ai	nnular on a	10M system						

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

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

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
what will be used to monitor the loss of gain of huid?	r v 1/r ason/ v isuai Wontoring

#### 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 Rpeort and sbumitted to the BLM.
	No logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain.
	Coring? If yes, explain.

Additional	logs planned	Interval
	Resistivity	Int. shoe to KOP
	Density	Int. shoe to KOP
Х	CBL	Production casing
Х	Mud log	Intermediate shoe to TD
	PEX	

#### 7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6569
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.

IN I	H2S is present
	H2S plan attached.

#### 8. Other facets of operation

Is this a walking operation? Potentially

- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
  - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
- 3  The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
  - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe

# **FAFMSS**

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

APD ID: 10400065195 Submission Date: 11/15/2020 Highlighted data reflects the most Operator Name: DEVON ENERGY PRODUCTION COMPANY LP recent changes Well Name: VAN DOO DAH 33-28 FED COM Well Number: 714H Show Final Text Well Type: OIL WELL Well Work Type: Drill

## **Section 1 - Geologic Formations**

Formation	Formation Name	Elevation	True Vertical		Lithologioo	Minoral Resources	Producing
ID 1144518	UNKNOWN	Elevation 3312	0 Depth	Depth 0	Lithologies ALLUVIUM, OTHER : Surface	Mineral Resources NONE	Formation N
1144519	RUSTLER	2317	995	995	SANDSTONE	NONE	N
1144523	TOP SALT	1932	1380	1380	SALT	NONE	N
1144527	BELL CANYON	-1313	4625	4625	SANDSTONE	NATURAL GAS, OIL	N
1144521	BASE OF SALT	-1313	4625	4625	SALT	NONE	N
1144528	CHERRY CANYON	-2268	5580	5580	SANDSTONE	NATURAL GAS, OIL	N
1144529	BRUSHY CANYON	-3858	7170	7170	SANDSTONE	NATURAL GAS, OIL	N
1144530	BONE SPRING LIME	-5368	8680	8680	LIMESTONE	NATURAL GAS, OIL	N
1144520	BONE SPRING	-6353	9665	9665	SANDSTONE	NATURAL GAS, OIL	N
1144517	BONE SPRING 2ND	-6998	10310	10310	SANDSTONE	NATURAL GAS, OIL	N
1144531	BONE SPRING LIME	-7493	10805	10805	LIMESTONE	NATURAL GAS, OIL	N
1144532	BONE SPRING 3RD	-8103	11415	11415	SANDSTONE	NATURAL GAS, OIL	N
1144533	WOLFCAMP	-8598	11910	11910	SANDSTONE	NATURAL GAS, OIL	Y
1144534	STRAWN	-10658	13970	13970	LIMESTONE	NATURAL GAS, OIL	N

## **Section 2 - Blowout Prevention**



## **Devon Energy** APD VARIANCE DATA

## **OPERATOR NAME:** Devon Energy

### 1. SUMMARY OF Variance:

Devon Energy respectfully requests approval for the following additions to the drilling plan:

1. Potential utilization of a spudder rig to pre-set surface casing.

### 2. Description of Operations

- **1.** A spudder rig contractor may move in their rig to drill the surface hole section and pre-set surface casing on this well.
  - **a.** After drilling the surface hole section, the rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
  - **b.** Rig will utilize fresh water based mud to drill surface hole to TD.
- 2. The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- **3.** A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wingvalves.
  - **a.** A means for intervention will be maintained while the drilling rig is not over the well.
- 4. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 5. Drilling operation will be performed with the big 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 BLM will be contacted / notified 24 hours before the big rig moves back on to the pad with the pre-set surface casing.
- **6.** Devon Energy will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 7. Once the rig is removed, Devon Energy will secure the wellhead area by placing a guard rail around the cellar area.

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## Ontinental® CONTITECH

Fluid Technology

ContiTech Beattle Corp. Website: <u>www.contitechbeattle.com</u>

Monday, June 14, 2010

RE: Drilling & Production Hoses Lifting & Safety Equipment

To Helmerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use In Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

Best regards,

Robin Hodgson Sales Manager ContiTech Beattie Corp

ContiTech Beattle Corp, 11535 Brittmoore Park Drive, Houston, TX 77041 Phone: +1 (832) 327-0141 Fax: +1 (832) 327-0148 www.contitechbeattle.com



**QUALITY DOCUMENT** 

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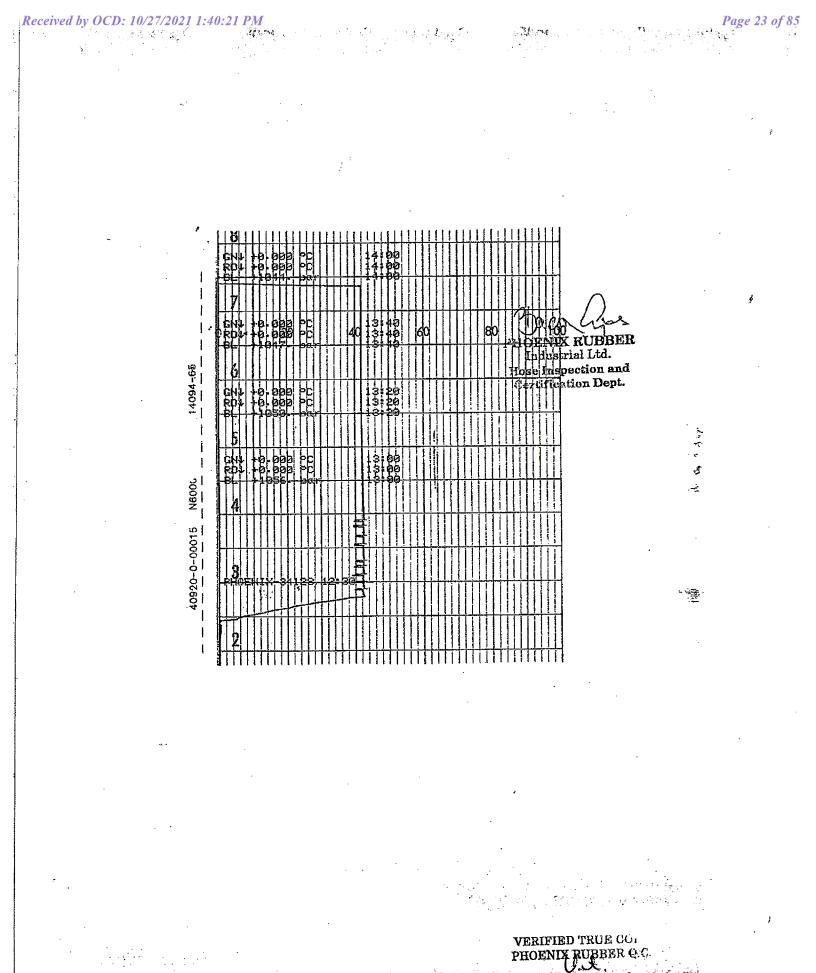
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QUALII INSPECTION A	ND TEST		ATE		CERT. N	l°:	552	
PURCHASER:	Phoenix Beat	tie Co.			P.O. Nº.	1519	FA-871	
PHOENIX RUBBER order N°	170466	HOSE TYPE:	3"	ID -	Cho	ke and Kill	Hose	
HOSE SERIAL Nº	34128	NOMINAL / AC	TUAL LE	ENGTH:		11,43 m		
W.P. 68,96 MPa 100	)00 psi	T.P. 103,4	MPa	1500	() psi	Duration:	60	min.
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WE CERTIFY THAT THE ABOVE H PRESSURE TESTED AS ABOVE W			ED IN AC	CORDAN	ICE WITH	THE TERMS (	of the orde	ER AND
Date: Ir 29. April. 2002.	nspector		Qual	ity Contr	rHOF Ind Hose √	NIX RUB lustrial Ltd Inspection	Freenwy	ίω΄.



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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.

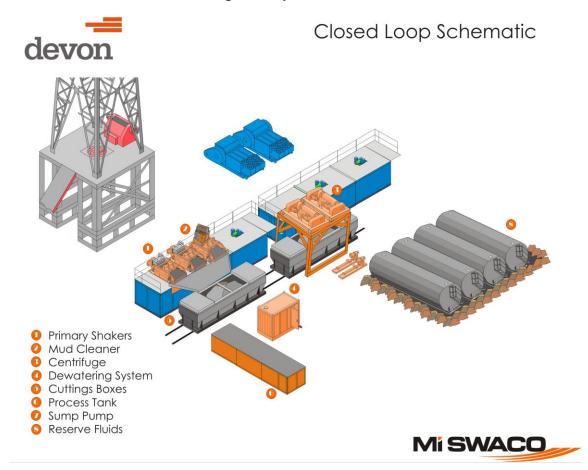
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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.

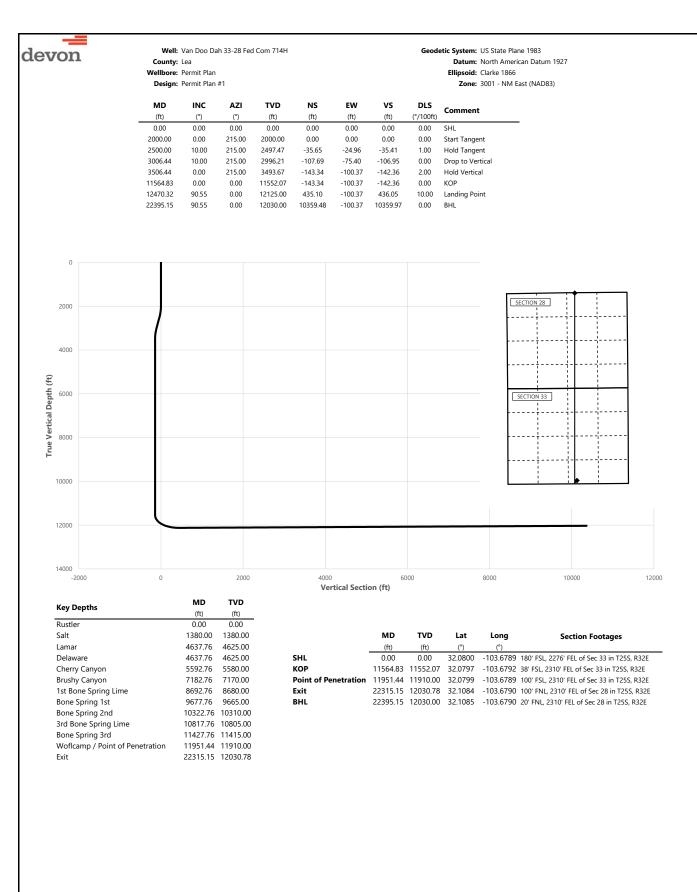
All trash is kept in a wire mesh enclosure and removed to an approved landfill when full. All spent motor oils are kept in separate containers and they are removed and sent to an approved recycling center. Any spilled lubricants, pipe dope, or regulated chemicals are removed from soil and sent to landfills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

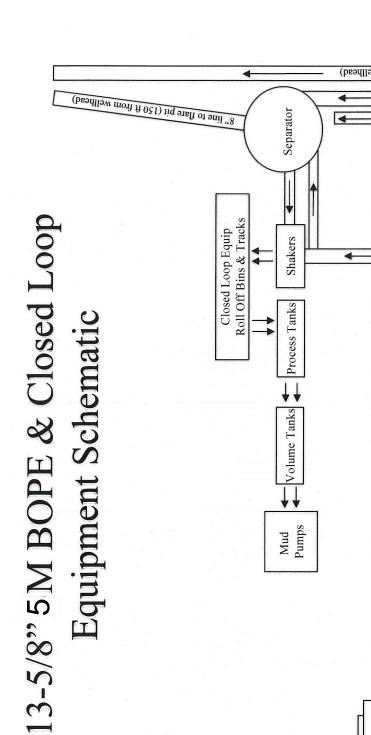


evon		County: Wellbore:			Com 714H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	215.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	215.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	215.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	215.00	400.00	0.00	0.00	0.00	0.00	
	500.00	0.00	215.00	500.00	0.00	0.00	0.00	0.00	
	600.00	0.00	215.00	600.00	0.00	0.00	0.00	0.00	
	700.00	0.00	215.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	215.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	215.00	900.00	0.00	0.00	0.00	0.00	
	995.00	0.00	215.00	995.00	0.00	0.00	0.00	0.00	Rustler
	1000.00	0.00	215.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00	0.00	215.00	1100.00	0.00	0.00	0.00	0.00	
	1200.00	0.00	215.00	1200.00	0.00	0.00	0.00	0.00	
	1300.00	0.00	215.00	1300.00	0.00	0.00	0.00	0.00	
	1380.00	0.00	215.00	1380.00	0.00	0.00	0.00	0.00	Salt
	1400.00	0.00	215.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	215.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00 1700.00	0.00 0.00	215.00	1600.00 1700.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1700.00	0.00	215.00 215.00	1700.00 1800.00	0.00 0.00	0.00	0.00	0.00	
	1900.00	0.00	215.00	1900.00	0.00	0.00	0.00	0.00	
	2000.00	0.00	215.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	215.00	2099.98	-1.43	-1.00	-1.42	2.00	Start rangent
	2200.00	4.00	215.00	2199.84	-5.72	-4.00	-5.68	2.00	
	2300.00	6.00	215.00	2299.45	-12.86	-9.00	-12.77	2.00	
	2400.00	8.00	215.00	2398.70	-22.84	-15.99	-22.68	2.00	
	2500.00	10.00	215.00	2497.47	-35.65	-24.96	-35.41	1.00	Hold Tangent
	2600.00	10.00	215.00	2595.95	-49.88	-34.92	-49.54	0.00	-
	2700.00	10.00	215.00	2694.43	-64.10	-44.88	-63.66	0.00	
	2800.00	10.00	215.00	2792.91	-78.32	-54.84	-77.79	0.00	
	2900.00	10.00	215.00	2891.39	-92.55	-64.80	-91.92	0.00	
	3000.00	10.00	215.00	2989.87	-106.77	-74.76	-106.04	0.00	
	3006.44	10.00	215.00	2996.21	-107.69	-75.40	-106.95	0.00	Drop to Vertical
	3100.00	8.13	215.00	3088.60	-119.76	-83.86	-118.95	2.00	
	3200.00	6.13	215.00	3187.82	-129.93	-90.98	-129.04	2.00	
	3300.00	4.13	215.00	3287.42	-137.25	-96.10	-136.31	2.00	
	3400.00	2.13	215.00	3387.26	-141.72	-99.23	-140.75	2.00	
	3500.00	0.13	215.00	3487.24	-143.33	-100.36	-142.36	2.00	
	3506.44	0.00	215.00	3493.67	-143.34	-100.37	-142.36	2.00	Hold Vertical
	3600.00	0.00	0.00	3587.24	-143.34	-100.37	-142.36	0.00	
	3700.00	0.00	0.00	3687.24	-143.34	-100.37	-142.36	0.00	
	3800.00	0.00	0.00	3787.24	-143.34 -143.34	-100.37 -100.37	-142.36	0.00	
	3900.00 4000.00	0.00 0.00	0.00 0.00	3887.24 3987.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	4000.00	0.00	0.00	3987.24 4087.24	-143.34 -143.34	-100.37	-142.36	0.00	
	4200.00	0.00	0.00	4087.24	-143.34	-100.37	-142.36	0.00	
	4300.00	0.00	0.00	4187.24	-143.34	-100.37	-142.36	0.00	
	4400.00	0.00	0.00	4387.24	-143.34	-100.37	-142.36	0.00	
	4500.00	0.00	0.00	4487.24	-143.34	-100.37	-142.36	0.00	
	4600.00	0.00	0.00	4587.24	-143.34	-100.37	-142.36	0.00	
	4637.76	0.00	0.00	4625.00	-143.34	-100.37	-142.36	0.00	Lamar, Delaware
	4700.00	0.00	0.00	4687.24	-143.34	-100.37	-142.36	0.00	
	4800.00	0.00	0.00	4787.24	-143.34	-100.37	-142.36	0.00	
	4900.00	0.00	0.00	4887.24	-143.34	-100.37	-142.36	0.00	
	5000.00	0.00	0.00	4987.24	-143.34	-100.37	-142.36	0.00	
	5100.00	0.00	0.00	5087.24	-143.34	-100.37	-142.36	0.00	
	5200.00	0.00	0.00	5187.24	-143.34	-100.37	-142.36	0.00	
	5300.00	0.00	0.00	5287.24	-143.34	-100.37	-142.36	0.00	
	5400.00	0.00	0.00	5387.24	-143.34	-100.37	-142.36	0.00	
	5500.00	0.00	0.00	5487.24	-143.34	-100.37	-142.36	0.00	
	5592.76	0.00	0.00	5580.00	-143.34	-100.37	-142.36	0.00	Cherry Canyon
	5600.00	0.00	0.00	5587.24	-143.34	-100.37	-142.36	0.00	
	5700.00	0.00	0.00	5687.24	-143.34	-100.37	-142.36	0.00	
	5800.00	0.00	0.00	5787.24	-143.34	-100.37	-142.36	0.00	
	5900.00	0.00	0.00	5887.24	-143.34	-100.37	-142.36	0.00	
	6000.00	0.00	0.00	5987.24	-143.34	-100.37	-142.36	0.00	
	6100.00	0.00	0.00	6087.24	-143.34	-100.37	-142.36	0.00	
	6200.00	0.00	0.00	6187.24	-143.34	-100.37	-142.36	0.00	
	6300.00	0.00	0.00	6287.24	-143.34	-100.37	-142.36	0.00	

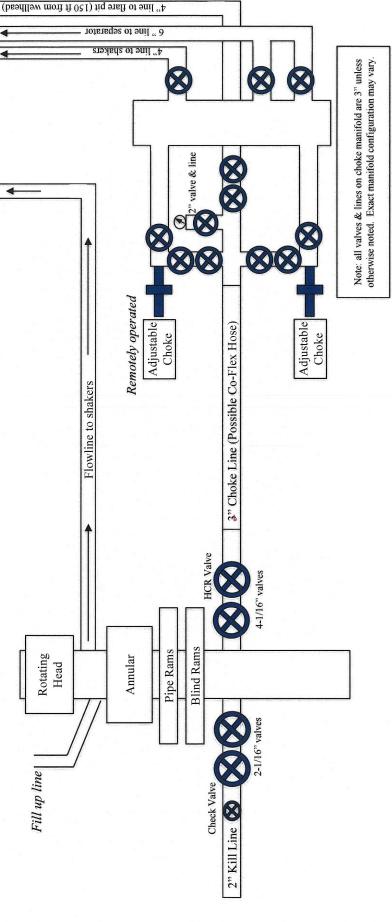
devon				0ah 33-28 Fed	Com 714H				Geodetic System: US State Plane 1983
devon		County:							Datum: North American Datum 1927
		Wellbore: Design:	Permit Pla Permit Pla						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
		-							
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
-	(ft) 6400.00	(°) 0.00	(°) 0.00	(ft) 6387.24	(ft) -143.34	(ft) -100.37	(ft) -142.36	(°/100ft) 0.00	
	6500.00	0.00	0.00	6487.24	-143.34	-100.37	-142.36	0.00	
	6600.00	0.00	0.00	6587.24	-143.34	-100.37	-142.36	0.00	
	6700.00	0.00	0.00	6687.24	-143.34	-100.37	-142.36	0.00	
	6800.00 6900.00	0.00 0.00	0.00 0.00	6787.24 6887.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	7000.00	0.00	0.00	6987.24	-143.34	-100.37	-142.36	0.00	
	7100.00	0.00	0.00	7087.24	-143.34	-100.37	-142.36	0.00	
	7182.76	0.00	0.00	7170.00	-143.34	-100.37	-142.36	0.00	Brushy Canyon
	7200.00	0.00	0.00	7187.24	-143.34	-100.37	-142.36	0.00	
	7300.00 7400.00	0.00 0.00	0.00 0.00	7287.24 7387.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	7500.00	0.00	0.00	7487.24	-143.34	-100.37	-142.36	0.00	
	7600.00	0.00	0.00	7587.24	-143.34	-100.37	-142.36	0.00	
	7700.00	0.00	0.00	7687.24	-143.34	-100.37	-142.36	0.00	
	7800.00 7900.00	0.00 0.00	0.00 0.00	7787.24 7887.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	8000.00	0.00	0.00	7987.24	-143.34	-100.37	-142.36	0.00	
	8100.00	0.00	0.00	8087.24	-143.34	-100.37	-142.36	0.00	
	8200.00	0.00	0.00	8187.24	-143.34	-100.37	-142.36	0.00	
	8300.00	0.00	0.00	8287.24	-143.34	-100.37	-142.36	0.00	
	8400.00 8500.00	0.00 0.00	0.00 0.00	8387.24 8487.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	8600.00	0.00	0.00	8587.24	-143.34	-100.37	-142.36	0.00	
	8692.76	0.00	0.00	8680.00	-143.34	-100.37	-142.36	0.00	1st Bone Spring Lime
	8700.00	0.00	0.00	8687.24	-143.34	-100.37	-142.36	0.00	
	8800.00 8900.00	0.00 0.00	0.00 0.00	8787.24 8887.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	9000.00	0.00	0.00	8987.24	-143.34	-100.37	-142.36	0.00	
	9100.00	0.00	0.00	9087.24	-143.34	-100.37	-142.36	0.00	
	9200.00	0.00	0.00	9187.24	-143.34	-100.37	-142.36	0.00	
	9300.00	0.00	0.00	9287.24	-143.34	-100.37	-142.36	0.00	
	9400.00 9500.00	0.00 0.00	0.00 0.00	9387.24 9487.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	9600.00	0.00	0.00	9587.24	-143.34	-100.37	-142.36	0.00	
	9677.76	0.00	0.00	9665.00	-143.34	-100.37	-142.36	0.00	Bone Spring 1st
	9700.00	0.00	0.00	9687.24	-143.34	-100.37	-142.36	0.00	
	9800.00 9900.00	0.00 0.00	0.00 0.00	9787.24 9887.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	10000.00	0.00	0.00	9987.24	-143.34	-100.37	-142.36	0.00	
	10100.00	0.00	0.00	10087.24	-143.34	-100.37	-142.36	0.00	
	10200.00	0.00	0.00	10187.24	-143.34	-100.37	-142.36	0.00	
	10300.00	0.00 0.00	0.00 0.00	10287.24	-143.34 -143.34	-100.37	-142.36	0.00	Pone Spring and
	10322.76 10400.00	0.00	0.00	10310.00 10387.24	-143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	Bone Spring 2nd
	10500.00	0.00	0.00	10487.24	-143.34	-100.37	-142.36	0.00	
	10600.00	0.00	0.00	10587.24	-143.34	-100.37	-142.36	0.00	
	10700.00	0.00	0.00	10687.24	-143.34	-100.37	-142.36	0.00	
	10800.00 10817.76	0.00 0.00	0.00 0.00	10787.24 10805.00	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	3rd Bone Spring Lime
	10900.00	0.00	0.00	10887.24	-143.34	-100.37	-142.36	0.00	
	11000.00	0.00	0.00	10987.24	-143.34	-100.37	-142.36	0.00	
	11100.00	0.00	0.00	11087.24	-143.34	-100.37	-142.36	0.00	
	11200.00 11300.00	0.00 0.00	0.00 0.00	11187.24 11287.24	-143.34 -143.34	-100.37 -100.37	-142.36 -142.36	0.00 0.00	
	11400.00	0.00	0.00	11287.24	-143.34	-100.37	-142.36	0.00	
	11427.76	0.00	0.00	11415.00	-143.34	-100.37	-142.36	0.00	Bone Spring 3rd
	11500.00	0.00	0.00	11487.24	-143.34	-100.37	-142.36	0.00	1/02
	11564.83	0.00	0.00	11552.07	-143.34	-100.37	-142.36	0.00	КОР
	11600.00 11700.00	3.52 13.52	0.00 0.00	11587.21 11685.99	-142.26 -127.47	-100.37 -100.37	-141.28 -126.49	10.00 10.00	
	11800.00	23.52	0.00	11780.69	-95.75	-100.37	-94.78	10.00	
	11900.00	33.52	0.00	11868.45	-48.07	-100.37	-47.10	10.00	
	11951.44	38.66	0.00	11910.00	-17.78	-100.37	-16.81	10.00	Woflcamp / Point of Penetration
	12000.00 12100.00	43.52 53.52	0.00 0.00	11946.59 12012.74	14.12 88.94	-100.37 -100.37	15.10 89.91	10.00 10.00	
	12100.00	53.52 63.52	0.00	12012.74	88.94 174.12	-100.37	175.08	10.00	
	12300.00	73.52	0.00	12101.48	267.05	-100.37	268.01	10.00	
	12400.00	83.52	0.00	12121.36	364.92	-100.37	365.88	10.00	
	12470.32	90.55	0.00	12125.00	435.10	-100.37	436.05	10.00	Landing Point

		County:	Lea	oah 33-28 Fed	Com 714H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
		Wellbore: Design:	Permit Pla Permit Pla						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft) 2500.00	(°) 90.55	(°) 0.00	(ft) 12124.72	(ft) 464.78	(ft) -100.37	(ft) 465.74	(°/100ft) 0.00	
	2600.00	90.55	0.00	12123.76	564.78	-100.37	565.73	0.00	
	2700.00	90.55	0.00	12122.80	664.78	-100.37	665.72	0.00	
	2800.00	90.55	0.00	12121.84	764.77	-100.37	765.71	0.00	
1	2900.00	90.55	0.00	12120.89	864.77	-100.37	865.70	0.00	
1	3000.00	90.55	0.00	12119.93	964.76	-100.37	965.69	0.00	
	3100.00	90.55	0.00	12118.97	1064.76	-100.37	1065.68	0.00	
	3200.00	90.55	0.00	12118.02	1164.75	-100.37	1165.67	0.00	
	3300.00	90.55	0.00	12117.06	1264.75	-100.37	1265.66	0.00	
	3400.00 3500.00	90.55 90.55	0.00 0.00	12116.10 12115.15	1364.74 1464.74	-100.37 -100.37	1365.65 1465.64	0.00 0.00	
	3600.00	90.55	0.00	12113.13	1564.73	-100.37	1565.63	0.00	
	3700.00	90.55	0.00	12113.23	1664.73	-100.37	1665.62	0.00	
	3800.00	90.55	0.00	12112.27	1764.72	-100.37	1765.61	0.00	
1	3900.00	90.55	0.00	12111.32	1864.72	-100.37	1865.61	0.00	
	4000.00	90.55	0.00	12110.36	1964.72	-100.37	1965.60	0.00	
	4100.00	90.55	0.00	12109.40	2064.71	-100.37	2065.59	0.00	
	4200.00	90.55	0.00	12108.45	2164.71	-100.37	2165.58	0.00	
	4300.00	90.55	0.00	12107.49	2264.70	-100.37	2265.57	0.00	
	4400.00	90.55	0.00	12106.53	2364.70 2464.69	-100.37	2365.56	0.00	
	4500.00 4600.00	90.55 90.55	0.00 0.00	12105.57 12104.62	2464.69 2564.69	-100.37 -100.37	2465.55 2565.54	0.00 0.00	
	4600.00 4700.00	90.55 90.55	0.00	12104.62	2564.69 2664.68	-100.37	2565.54 2665.53	0.00	
	4800.00	90.55	0.00	12103.00	2764.68	-100.37	2765.52	0.00	
	4900.00	90.55	0.00	12101.75	2864.67	-100.37	2865.51	0.00	
1	5000.00	90.55	0.00	12100.79	2964.67	-100.37	2965.50	0.00	
1	5100.00	90.55	0.00	12099.83	3064.67	-100.37	3065.49	0.00	
	5200.00	90.55	0.00	12098.88	3164.66	-100.37	3165.48	0.00	
	5300.00	90.55	0.00	12097.92	3264.66	-100.37	3265.48	0.00	
	5400.00	90.55	0.00	12096.96	3364.65	-100.37	3365.47	0.00	
	5500.00 5600.00	90.55 90.55	0.00 0.00	12096.00 12095.05	3464.65 3564.64	-100.37 -100.37	3465.46 3565.45	0.00 0.00	
	5700.00	90.55	0.00	12093.03	3664.64	-100.37	3665.44	0.00	
	5800.00	90.55	0.00	12093.13	3764.63	-100.37	3765.43	0.00	
	5900.00	90.55	0.00	12092.18	3864.63	-100.37	3865.42	0.00	
1	6000.00	90.55	0.00	12091.22	3964.62	-100.37	3965.41	0.00	
1	6100.00	90.55	0.00	12090.26	4064.62	-100.37	4065.40	0.00	
1	6200.00	90.55	0.00	12089.30	4164.61	-100.37	4165.39	0.00	
	6300.00	90.55	0.00	12088.35	4264.61	-100.37	4265.38	0.00	
	6400.00	90.55	0.00	12087.39	4364.61	-100.37	4365.37	0.00	
	6500.00	90.55	0.00	12086.43	4464.60	-100.37	4465.36	0.00	
	6600.00 6700.00	90.55 90.55	0.00 0.00	12085.48 12084.52	4564.60 4664.59	-100.37 -100.37	4565.35 4665.35	0.00 0.00	
	6800.00	90.55 90.55	0.00	12084.52	4664.59 4764.59	-100.37	4005.35 4765.34	0.00	
	6900.00	90.55	0.00	12082.61	4864.58	-100.37	4865.33	0.00	
	7000.00	90.55	0.00	12081.65	4964.58	-100.37	4965.32	0.00	
	7100.00	90.55	0.00	12080.69	5064.57	-100.37	5065.31	0.00	
1	7200.00	90.55	0.00	12079.73	5164.57	-100.37	5165.30	0.00	
	7300.00	90.55	0.00	12078.78	5264.56	-100.37	5265.29	0.00	
	7400.00	90.55	0.00	12077.82	5364.56	-100.37	5365.28	0.00	
	7500.00	90.55	0.00	12076.86	5464.56	-100.37	5465.27	0.00	
	7600.00	90.55	0.00	12075.91	5564.55	-100.37	5565.26	0.00	
	7700.00 7800.00	90.55 90.55	0.00 0.00	12074.95 12073.99	5664.55 5764.54	-100.37 -100.37	5665.25 5765.24	0.00 0.00	
	7900.00	90.55 90.55	0.00	12073.99	5764.54 5864.54	-100.37	5765.24 5865.23	0.00	
	8000.00	90.55	0.00	12073.03	5964.54	-100.37	5965.23	0.00	
	8100.00	90.55	0.00	12071.12	6064.53	-100.37	6065.22	0.00	
	8200.00	90.55	0.00	12070.16	6164.52	-100.37	6165.21	0.00	
	8300.00	90.55	0.00	12069.21	6264.52	-100.37	6265.20	0.00	
1	8400.00	90.55	0.00	12068.25	6364.51	-100.37	6365.19	0.00	
	8500.00	90.55	0.00	12067.29	6464.51	-100.37	6465.18	0.00	
	8600.00	90.55	0.00	12066.34	6564.51	-100.37	6565.17	0.00	
	8700.00	90.55	0.00	12065.38	6664.50	-100.37	6665.16	0.00	
	8800.00	90.55	0.00	12064.42	6764.50	-100.37	6765.15	0.00	
	8900.00	90.55	0.00	12063.46	6864.49	-100.37	6865.14	0.00	
	9000.00 9100.00	90.55 90.55	0.00 0.00	12062.51 12061.55	6964.49 7064.48	-100.37 -100.37	6965.13 7065.12	0.00	
	9200.00	90.55 90.55	0.00	12061.55	7064.48	-100.37	7065.12 7165.11	0.00 0.00	
	9200.00 9300.00	90.55 90.55	0.00	12060.59	7164.48	-100.37	7265.10	0.00	
	9400.00	90.55	0.00	12058.68	7364.47	-100.37	7365.10	0.00	
			2.00					2.00	

on		County: Wellbore:	Lea		Com 714H		Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)					
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment			
_	(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
	19500.00	90.55	0.00	12057.72	7464.46	-100.37	7465.09	0.00				
	19600.00	90.55	0.00	12056.76	7564.46	-100.37	7565.08	0.00				
	19700.00	90.55	0.00	12055.81	7664.45	-100.37	7665.07	0.00				
	19800.00	90.55	0.00	12054.85	7764.45	-100.37	7765.06	0.00				
	19900.00	90.55	0.00	12053.89	7864.45	-100.37	7865.05	0.00				
	20000.00	90.55	0.00	12052.94	7964.44	-100.37	7965.04	0.00				
	20100.00	90.55	0.00	12051.98	8064.44	-100.37	8065.03	0.00				
	20200.00	90.55	0.00	12051.02	8164.43	-100.37	8165.02	0.00				
	20300.00	90.55	0.00	12050.07	8264.43	-100.37	8265.01	0.00				
	20400.00	90.55	0.00	12049.11	8364.42	-100.37	8365.00	0.00				
	20500.00	90.55	0.00	12048.15	8464.42	-100.37	8464.99	0.00				
	20600.00	90.55	0.00	12047.19	8564.41	-100.37	8564.98	0.00				
	20700.00	90.55	0.00	12046.24	8664.41	-100.37	8664.97	0.00				
	20800.00	90.55	0.00	12045.28	8764.40	-100.37	8764.97	0.00				
	20900.00	90.55	0.00	12044.32	8864.40	-100.37	8864.96	0.00				
	21000.00	90.55	0.00	12043.37	8964.40	-100.37	8964.95	0.00				
	21100.00	90.55	0.00	12042.41	9064.39	-100.37	9064.94	0.00				
	21200.00	90.55	0.00	12041.45	9164.39	-100.37	9164.93	0.00				
	21300.00	90.55	0.00	12040.49	9264.38	-100.37	9264.92	0.00				
	21400.00	90.55	0.00	12039.54	9364.38	-100.37	9364.91	0.00				
	21500.00	90.55	0.00	12038.58	9464.37	-100.37	9464.90	0.00				
	21600.00	90.55	0.00	12037.62	9564.37	-100.37	9564.89	0.00				
	21700.00	90.55	0.00	12036.67	9664.36	-100.37	9664.88	0.00				
	21800.00	90.55	0.00	12035.71	9764.36	-100.37	9764.87	0.00				
	21900.00	90.55	0.00	12034.75	9864.35	-100.37	9864.86	0.00				
	22000.00	90.55	0.00	12033.80	9964.35	-100.37	9964.85	0.00				
	22100.00	90.55	0.00	12032.84	10064.34	-100.37	10064.84	0.00				
	22200.00	90.55	0.00	12031.88	10164.34	-100.37	10164.84	0.00				
	22300.00	90.55	0.00	12030.92	10264.34	-100.37	10264.83	0.00				
	22315.15	90.55	0.00	12030.78	10279.49	-100.37	10279.98	0.00	Exit			
	22395.15	90.55	0.00	12030.00	10359.48	-100.37	10359.97	0.00	BHL			



Mud Pumps



## **Devon Energy Annular Preventer Summary**

### 1. Component and Preventer Compatibility Table

The table below, which covers the drilling and casing of the 10M MASP portion of the well, outlines the tubulars and the compatible preventers in use. This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the rating of the annular preventer.

Component	OD	Preventer	RWP
Drillpipe	4.5"	Fixed lower 4.5"	10M
		Upper 4.5-7" VBR	
HWDP	4.5"	Fixed lower 4.5"	10M
		Upper 4.5-7" VBR	
Drill collars and MWD tools	4.75"	Upper 4.5-7" VBR	10M
Mud Motor	4.75"	Upper 4.5-7" VBR	10M
Production casing	5.5"	Upper 4.5-7" VBR	10M
ALL	0-13-5/8"	Annular	5M
Open-hole	-	Blind Rams	10M

6-3/4" Production hole section, 10M requirement

VBR = Variable Bore Ram. Compatible range listed in chart.

## 2. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. The pressure at which control is swapped from the annular to another compatible ram is variable, but the operator will document in the submission their operating pressure limit. The operator may chose an operating pressure less than or equal to RWP, but in no case will it exceed the RWP of the annular preventer.

#### General Procedure While Drilling

- 1. Sound alarm (alert crew)
- 2. Space out drill string
- 3. Shut down pumps (stop pumps and rotary)
- 4. Shut-in Well (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

## **Devon Energy Annular Preventer Summary**

## General Procedure While Tripping

- 1. Sound alarm (alert crew)
- 2. Stab full opening safety valve and close
- 3. Space out drill string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP and SICP
    - b. Pit gain
    - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to the upper pipe ram.

## General Procedure While Running Casing

- 1. Sound alarm (alert crew)
- 2. Stab crossover and full opening safety valve and close
- 3. Space out string
- 4. Shut-in (uppermost applicable BOP, typically annular preventer first. HCR and choke will already be in the closed position.)
- 5. Confirm shut-in
- 6. Notify toolpusher/company representative
- 7. Read and record the following:
  - a. SIDPP and SICP
  - b. Pit gain
  - c. Time
- 8. Regroup and identify forward plan
- 9. If pressure has built or is anticipated during the kill to reach the RWP of the annular preventer, confirm spacing and swap to compatible pipe ram.

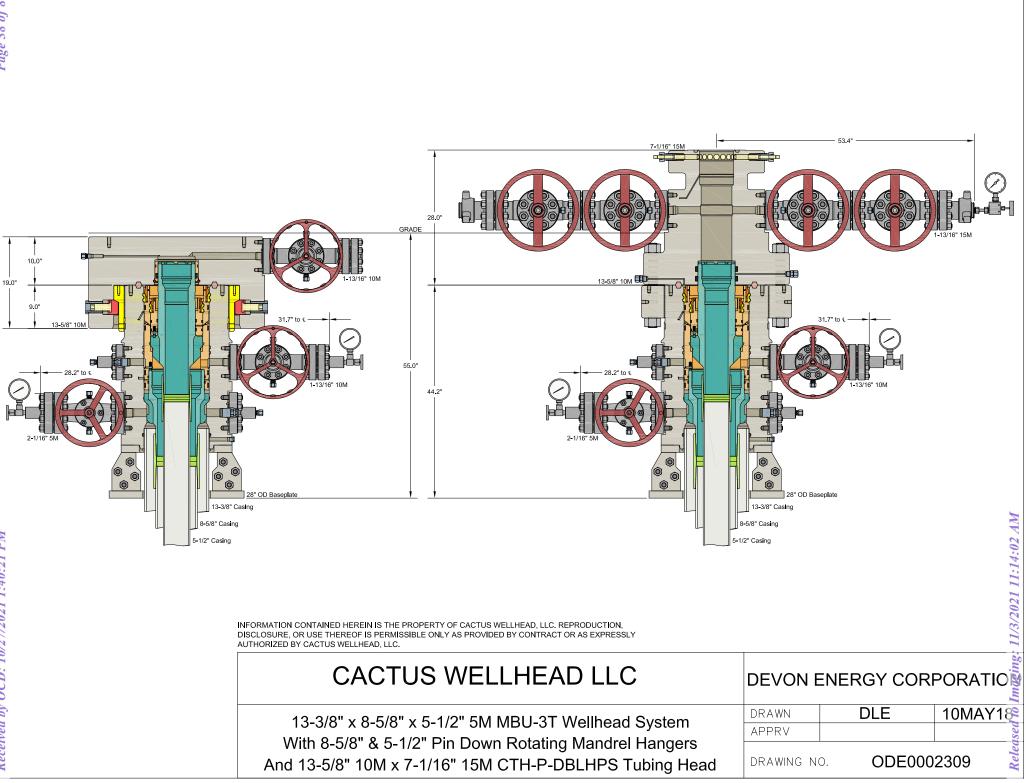
## General Procedure With No Pipe In Hole (Open Hole)

- 1. Sound alarm (alert crew)
- 2. Shut-in with blind rams or BSR. (HCR and choke will already be in the closed position.)
- 3. Confirm shut-in
- 4. Notify toolpusher/company representative
- 5. Read and record the following:
  - a. SICP
  - b. Pit gain
  - c. Time
- 6. Regroup and identify forward plan

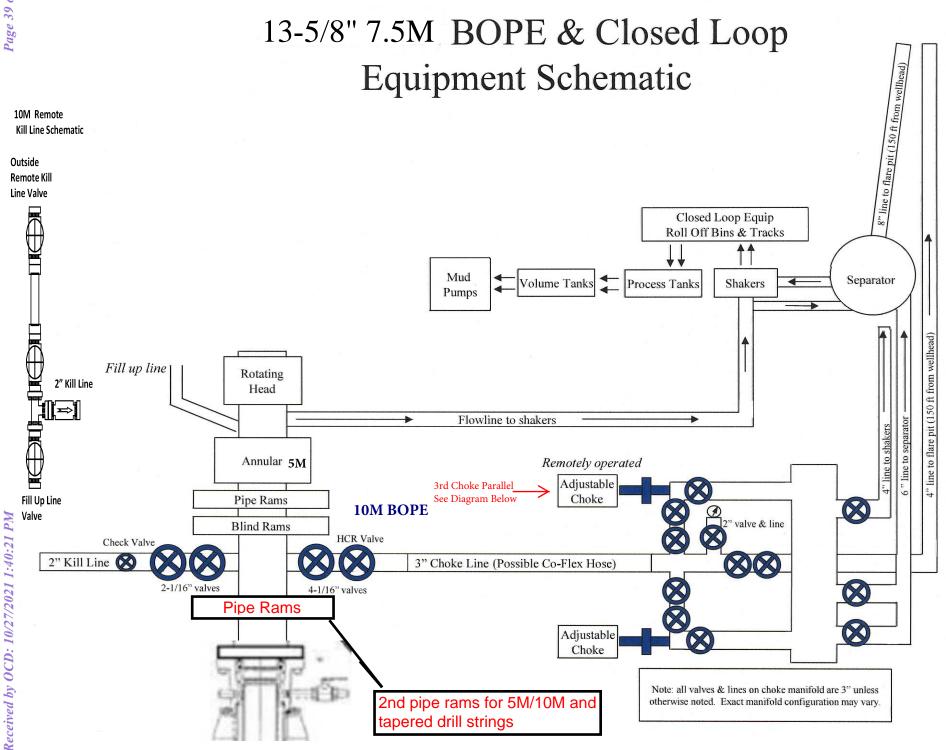
### **Devon Energy Annular Preventer Summary**

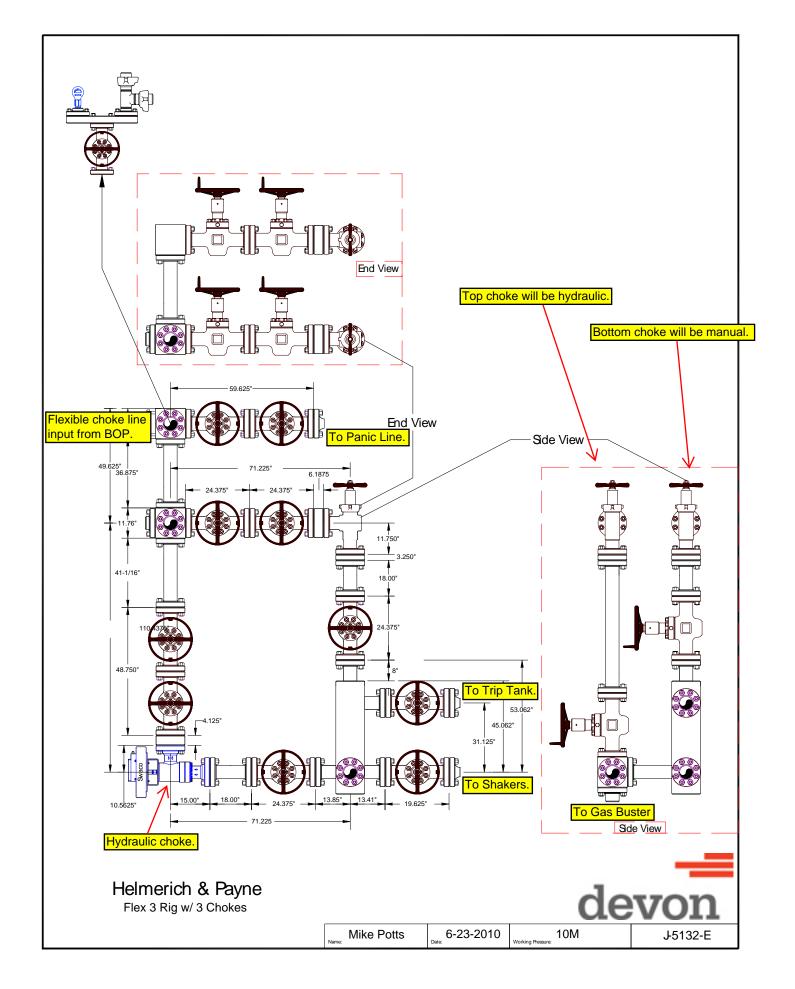
#### General Procedures While Pulling BHA thru Stack

- 1. PRIOR to pulling last joint of drillpipe thru the stack.
  - a. Perform flowcheck, if flowing:
  - b. Sound alarm (alert crew)
  - c. Stab full opening safety valve and close
  - d. Space out drill string with tool joint just beneath the upper pipe ram.
  - e. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
  - f. Confirm shut-in
  - g. Notify toolpusher/company representative
  - h. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
  - i. Regroup and identify forward plan
- 2. With BHA in the stack and compatible ram preventer and pipe combo immediately available.
  - a. Sound alarm (alert crew)
  - b. Stab crossover and full opening safety valve and close
  - c. Space out drill string with upset just beneath the compatible pipe ram.
  - d. Shut-in using compatible pipe ram. (HCR and choke will already be in the closed position.)
  - e. Confirm shut-in
  - f. Notify toolpusher/company representative
  - g. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
  - h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combo immediately available.
  - a. Sound alarm (alert crew)
  - b. If possible to pick up high enough, pull string clear of the stack and follow "Open Hole" scenario.
  - c. If impossible to pick up high enough to pull the string clear of the stack:
  - d. Stab crossover, make up one joint/stand of drillpipe, and full opening safety valve and close
  - e. Space out drill string with tooljoint just beneath the upper pipe ram.
  - f. Shut-in using upper pipe ram. (HCR and choke will already be in the closed position.)
  - g. Confirm shut-in
  - h. Notify toolpusher/company representative
  - i. Read and record the following:
    - i. SIDPP and SICP
    - ii. Pit gain
    - iii. Time
  - j. Regroup and identify forward plan



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

Devon proposes using a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- 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 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 surface 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 casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed and tested, with 5M annular being tested to 100% of rated working pressure.

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 10,000 psi WP.

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

Casing Assumptions and Load Cases

Surface

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Surface Casing Burst Design						
Load Case	External Pressure	Internal Pressure				
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-				
		section plus Test psi				
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole				
		section				
Displace to Gas	Formation Pore Pressure	Dry gas from next casing point				

Surface Casing Collapse Design					
Load Case	External Pressure	Internal Pressure			
Full Evacuation	Water gradient in cement, mud above TOC	None			
Cementing	Wet cement weight	Water (8.33ppg)			

Surface Casing Tension Design					
Load Case	Assumptions				
Overpull	100kips				
Runing in hole	3 ft/s				
Service Loads	N/A				

Casing Assumptions and Load Cases

Intermediate

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Intermediate Casing Burst Design							
Load Case External Pressure Internal Pressure							
Pressure Test	Formation Pore Pressure	Max mud weight of next hole-					
		section plus Test psi					
Drill Ahead	Formation Pore Pressure	Max mud weight of next hole					
		section					
Fracture @ Shoe	Formation Pore Pressure	Dry gas					

Intermediate Casing Collapse Design					
Load Case	External Pressure	Internal Pressure			
Full Evacuation	Water gradient in cement, mud above TOC	None			
Cementing	Wet cement weight	Water (8.33ppg)			

Intermediate Casing Tension Design				
Load Case	Assumptions			
Overpull	100kips			
Runing in hole	2 ft/s			
Service Loads	N/A			

Casing Assumptions and Load Cases

Production

All casing design assumptions were ran in Stress Check to determine safety factor which meet or exceed both Devon Energy and BLM minimum requirements. All casing strings will be filled while running in hole in order to not exceed collapse rating of the pipe.

Production Casing Burst Design					
Load Case	External Pressure	Internal Pressure			
Pressure Test	Formation Pore Pressure	Fluid in hole (water or produced			
		water) + test psi			
Tubing Leak	Formation Pore Pressure	Packer @ KOP, leak below			
		surface 8.6 ppg packer fluid			
Stimulation	Formation Pore Pressure	Max frac pressure with heaviest			
		frac fluid			

Production Casing Collapse Design							
Load Case External Pressure Internal Pressure							
Full Evacuation	Water gradient in cement, mud above TOC.	None					
Cementing	Wet cement weight	Water (8.33ppg)					

Production Casing Tension Design				
Load Case	Assumptions			
Overpull	100kips			
Runing in hole	2 ft/s			
Service Loads N/A				

# PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL Marwari 21, Marwari 28, Van Doo Dah 33 Well Pads, Central Tank Batteries, Access Roads, Buried Flowlines (Composite Flowline and Composite Gas Lift Line), Electric Lines Devon Energy Production Co.

Van Doo Dah Surface Bottom Hole	28-33 Section Section	FED 21 33	<b>333H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 200 FSL, 1540 FWL, Lea County 20 FSL, 2070 FWL, Lea County
Van Doo Dah Surface Bottom Hole	28-33 Section Section	FED 21 33	<b>713H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 200 FSL, 1510 FWL, Lea County 20 FSL, 1650 FWL, Lea County
Van Doo Dah Surface Bottom Hole	28-33 Section Section	FED 21 33	<b>733H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 200 FSL, 1570 FWL, Lea County 20 FSL, 2310 FWL, Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section Section	/FED 21 16	<b>332H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 350 FSL, 1540 FWL, Lea County 20 FNL, 2480 FWL, Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section Section	/FED 21 16	<b>622H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 350 FSL, 1480 FWL, Lea County 20 FNL, 1880 FWL, Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	State Section Section	/FED 21 16	<b>714H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 350 FSL, 1510 FWL, Lea County 20 FNL, 2180 FWL, Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	State Section Section	/FED 21 16	<b>732H</b> T25S, T25S,	R32E R32E	Marwari 21 Well Pad 1 350 FSL, 1570 FWL, Lea County 20 FNL, 2500 FEL, Lea County
Van Doo Dah Surface Bottom Hole	Section	FED 28 33	<b>620H</b> T25S,	R32E	Marwari 28 Well Pad 1 475 FNL, 190 FWL, Lea County
	Section	33	T25S,	R32E	20 FSL, 750 FWL, Lea County
Van Doo Dah Surface Bottom Hole		53 FED 28 33	7255, 711H T25S, T25S,	R32E R32E R32E	20FSL,750FWL,Lea CountyMarwari 28 Well Pad 1475FNL,160FWL,Lea County20FSL,330FWL,Lea County

**Approval Date: 09/28/2021** 

.

Marwari 21-16 Surface Bottom Hole	Section	28	<b>331H</b> T25S, T25S,	R32E	<b>Marwari 28</b> 325 20	B Well F FNL, FNL,	220	FWL, FWL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28	<b>621H</b> T25S, T25S,	R32E		<b>B Well F</b> FNL, FNL,	160	FWL, FWL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28	<b>712H</b> T25S, T25S,	R32E		<b>B Well F</b> FNL, FNL,	<b>Pad 1</b> 190 980	FWL, FWL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section Section		<b>731H</b> T25S, T25S,	R32E		<b>B Well F</b> FNL, FNL,	<b>Pad 1</b> 250 1580	FWL, FWL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28	<b>333H</b> T25S, T25S,	R32E		<b>B Well F</b> FNL, FNL,	1680	FEL, FEL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28		R32E		B Well F FNL, FNL,	1740	FEL, FEL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28	<b>716H</b> T25S, T25S,	R32E			1710	FEL, FEL,	Lea County Lea County
<b>Marwari 21-16</b> Surface Bottom Hole	Section	28	<b>733H</b> T25S, T25S,	R32E		<b>B Well F</b> FNL, FNL,	1300	FEL, FEL,	Lea County Lea County
Van Doo Dah									
Surface Bottom Hole	Section	FED 28 33	<b>625H</b> T25S, T25S,	R32E R32E		<b>B Well F</b> FNL, FSL,	<b>Pad 2</b> 1890 1890	FEL, FEL,	Lea County Lea County
	Section Section 28-33 Section	28 33 FED 28	T25S, T25S, <b>715H</b> T25S,	R32E R32E R32E	475 20 Marwari 28	FNL, FSL, <b>3 Well F</b> FNL,	1890 1890 <b>Pad 2</b> 1920	FEL,	
Bottom Hole Van Doo Dah Surface	Section Section 28-33 Section Section 28-33 Section	28 33 FED 28	T25S, T25S, <b>715H</b> T25S,	R32E R32E R32E R32E R32E	475 20 Marwari 28 475 20 Marwari 28 475	FNL, FSL, <b>3 Well F</b> FNL, FSL,	1890 1890 Pad 2 1920 2310 Pad 2 1860	FEL,	Lea County Lea County
Bottom Hole Van Doo Dah Surface Bottom Hole Van Doo Dah Surface	Section Section 28-33 Section Section 28-33 Section Section	28 33 FED 28 33 FED 28 33	T25S, T25S, <b>715H</b> T25S, T25S, <b>735H</b> T25S,	R32E R32E R32E R32E R32E R32E R32E	475 20 Marwari 28 475 20 Marwari 28 475 20 Marwari 28 325	FNL, FSL, <b>Well F</b> FNL, FSL, <b>Well F</b> FNL, FSL,	1890 1890 <b>Pad 2</b> 1920 2310 <b>Pad 2</b> 1860 1650	FEL, FEL, FEL, FEL,	Lea County Lea County Lea County Lea County
Bottom Hole Van Doo Dah Surface Bottom Hole Van Doo Dah Surface Bottom Hole Marwari 21-16 Surface	Section Section 28-33 Section 28-33 Section Section Section Section Section	28 33 FED 28 33 FED 28 33 /FED 28 16	T25S, T25S, <b>715H</b> T25S, T25S, <b>735H</b> T25S, T25S, <b>334H</b> T25S,	R32E R32E R32E R32E R32E R32E R32E R32E	475 20 Marwari 28 475 20 Marwari 28 475 20 Marwari 28 325 20 Marwari 28 325	FNL, FSL, Well F FNL, FSL, Well F FNL, FSL, S Well F FNL, FNL, FNL,	1890 1890 Pad 2 1920 2310 Pad 2 1860 1650 Pad 3 625 400	FEL, FEL, FEL, FEL, FEL,	Lea County Lea County Lea County Lea County Lea County

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	28 T25S. R32	Marwari 28 Well Pad 3 E 325 FNL, 655 FEL, E 20 FNL, 550 FEL,	Lea County Lea County
Van Doo Dah 28-33SurfaceSectionBottom HoleSection	28 T25S, R32		Lea County Lea County
Van Doo Dah 28-33SurfaceSectionBottom HoleSection	28 T25S, R32		Lea County Lea County
Van Doo Dah 28-33SurfaceSectionBottom HoleSection	28 T25S, R32	Marwari 28 Well Pad 3 E 475 FNL, 835 FEL, E 20 FSL, 330 FEL,	Lea County Lea County
Van Doo Dah 33-28SurfaceSectionBottom HoleSection	33 T25S, R32		
Van Doo Dah 33-28SurfaceSectionBottom HoleSection	33 T25S, R32	Van Doo Dah 33 Well Pad 1           E         180         FSL, 2276         FEL,           E         20         FNL, 2310         FEL,	Lea County Lea County
Van Doo Dah 33-28SurfaceSectionBottom HoleSection	33 T25S, R32	Van Doo Dah 33 Well Pad 1           E         180         FSL, 2216         FEL,           E         20         FNL, 1650         FEL,	Lea County Lea County
Van Doo Dah 33-28SurfaceSectionBottom HoleSection	33 T25S, R32		
	33 T25S, R32	Van Doo Dah 33 Well Pad 2           E         177         FSL,         851         FEL,           E         20         FNL,         990         FEL,	Lea County Lea County
	33 T25S, R32	Van Doo Dah 33 Well Pad 2 E 177 FSL, 791 FEL, E 20 FNL, 330 FEL,	
Planned (Future Wells)			
Van Doo Dah 21 -33SurfaceSectionBottom HoleSection	,	H Marwari 28 Well Pad 1 E TBD TBD	Lea County Lea County
Marwari 21-16 Surface Section Bottom Hole Section	State/FED 234 28 T25S, R32 16 TBD		Lea County Lea County
Van Doo Dah 28 -33 Surface Section Bottom Hole Section	FED 233 28 T25S, R32 28 -TBD		Lea County Lea County

# **TABLE OF CONTENTS**

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

<ul> <li>General Provisions</li> <li>Permit Expiration</li> <li>Archaeology, Paleontology, and Historical Sites</li> </ul>
Noxious Weeds
🖂 Special Requirements
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Hydrology
Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
Interim Reclamation
Final Abandonment & Reclamation

# I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

# **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

# III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

# **IV. NOXIOUS WEEDS**

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

# V. SPECIAL REQUIREMENT(S)

# Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

# **<u>Timing Limitation Exceptions:</u>**

The Carlsbad Field Office will publish an annual map of where the LPC timing and noise stipulations and conditions of approval (Limitations) will apply for the identified year (between March 1 and June 15) based on the latest survey information. The LPC Timing Area map will identify areas which are Habitat Areas (HA), Isolated Population Area (IPA), and Primary Population Area (PPA). The LPC Timing Area map will also have an area in red crosshatch. The red crosshatch area is the only area where an operator is required to submit a request for exception to the LPC Limitations. If an operator is operating outside the red crosshatch area, the LPC Limitations do not apply for that year and an exception to LPC Limitations is not required.

**Ground-level Abandoned Well Marker to avoid raptor perching**: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

# Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility.

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Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ¹/₂ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

# VI. CONSTRUCTION

# A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

### B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

### C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

### D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

### E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

## F. EXCLOSURE FENCING (CELLARS & PITS)

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### **Exclosure Fencing**

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

### G. ON LEASE ACCESS ROADS

### **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (24) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

### Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

### Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 24' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

### Ditching

Ditching shall be required on both sides of the road.

### Turnouts

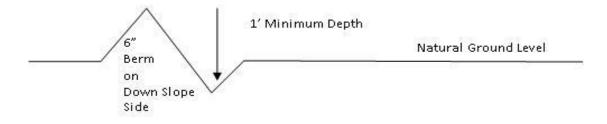
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

### Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

**Cross Section of a Typical Lead-off Ditch** 



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

#### Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:  $\underline{400'}_{4\%} + 100' = 200'$  lead-off ditch interval 4%

### **Cattle guards**

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

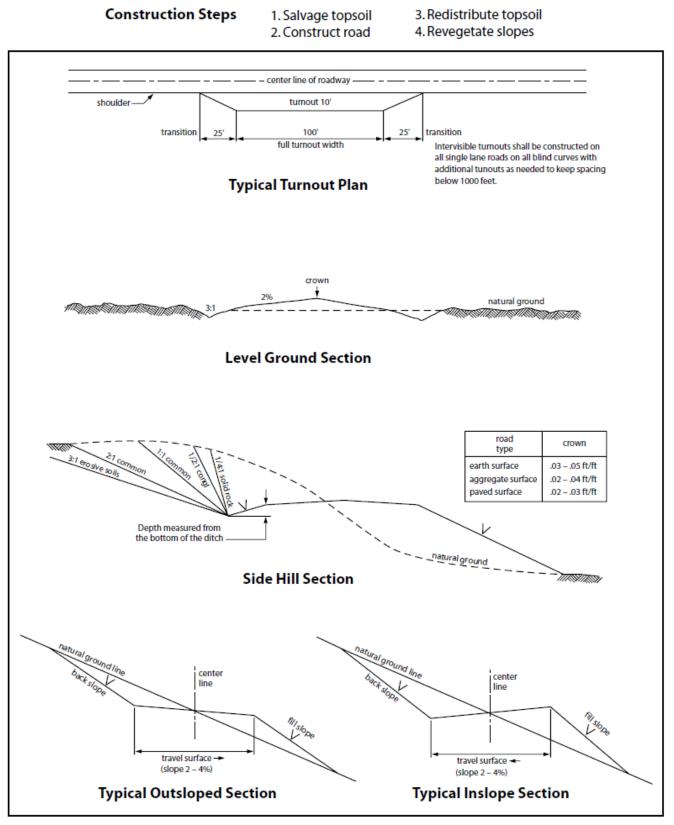
#### **Fence Requirement**

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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# VII. PRODUCTION (POST DRILLING)

# A. WELL STRUCTURES & FACILITIES

### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

# **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

## **Chemical and Fuel Secondary Containment and Exclosure Screening**

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

# **Open-Vent Exhaust Stack Exclosures**

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

# **Containment Structures**

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

#### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, <u>Shale Green</u> from the BLM Standard Environmental Color Chart (CC-001: June 2008).

### **B. PIPELINES**

#### BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq.</u> (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

#### **M** Approval Date: 09/28/2021

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.

5. All construction and maintenance activity will be confined to the authorized right-of-way.

6. The pipeline will be buried with a minimum cover of 36 inches between the top of the pipe and ground level.

7. The maximum allowable disturbance for construction in this right-of-way will be  $\underline{30}$  feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>30</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed <u>30</u> feet. The trench and bladed area are included in this area. (*Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.*)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (*Compressing can be caused by vehicle tires, placement of equipment, etc.*)

9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

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10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	( ) seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

14. The pipeline will be identified by signs at the point of origin and completion of the right-ofway and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.

15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.

16. Any cultural and/or paleontological resources (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

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17. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

18. <u>Escape Ramps</u> - The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the

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Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
  - (1) Land clearing.
  - (2) Earth-disturbing and earth-moving work.
  - (3) Blasting.
  - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-ofway width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

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15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

### C. ELECTRIC LINES

# STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 <u>et seq</u>. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as

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a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, <u>et seq</u>. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, <u>et seq</u>.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.

5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

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9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.

10. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the Authorized Officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

11. Special Stipulations:

- For reclamation remove poles, lines, transformer, etc. and dispose of properly.
- Fill in any holes from the poles removed.

### VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

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# IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species l<u>b/acre</u>

Sand dropseed (Sporobolus<br/>cryptandrus)1.0Sand love grass (Eragrostis<br/>trichodes)1.0Plains bristlegrass (Setaria<br/>macrostachya)2.0

*Pounds of pure live seed:

Pounds of seed  $\mathbf{x}$  percent purity  $\mathbf{x}$  percent germination = pounds pure live seed

# PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP				
LEASE NO.:	NMNM0359295A				
LOCATION:	Section 33, T.25 S., R.32 E., NMPM				
COUNTY:	Lea County,	New Mexico			
WELL NAME & NO.:	Van Doo Dah 33-28 Fed Com 714H				
SURFACE HOLE FOOTAGE:	180'/S & 2276'/E				
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 2310'/E				
WELL NAME & NO.:	Van Doo Dah 33-28 Fed Com 734H				
SURFACE HOLE FOOTAGE:	180'/S & 2216'/E				
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 1650'/E				
WELL NAME & NO.:	Van Doo Dah 33-28 Fed Com 736H				
SURFACE HOLE FOOTAGE:	177'/S & 791'/E				
<b>BOTTOM HOLE FOOTAGE</b>	20'/N & 330'/E				
СОА					
H2S Ves		No			
Potash 🖸 None		Secretary	<b>C</b> R-111-P		
Cave/Karst Potential	0	Medium	🖸 High		
Cave/Karst Potential					

### A. HYDROGEN SULFIDE

Special Requirements 

Water Disposal

Wellhead

Other

Other

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

Conventional

☐ 4 String Area ✓ Fluid Filled C Multibowl

COM

Capitan Reef

Cement Squeeze

🖸 Both

□ WIPP

🗆 Unit

Pilot Hole

### **B.** CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1075 feet (a minimum of 25 feet (Lea 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.

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

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. Cement excess is less than 25%, more cement might be required.

Operator has proposed to pump down 13-3/8" X 8-5/8" annulus. <u>Operator must run</u> <u>a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.</u>

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

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

### C. PRESSURE CONTROL

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

### 2.

# **Option 1:**

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

### **Option 2:**

- Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
  - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

### D. SPECIAL REQUIREMENT (S)

### **Communitization Agreement**

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- 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>

# **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 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

### A. CASING

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

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

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

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

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

#### D. WASTE MATERIAL AND FLUIDS

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

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



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

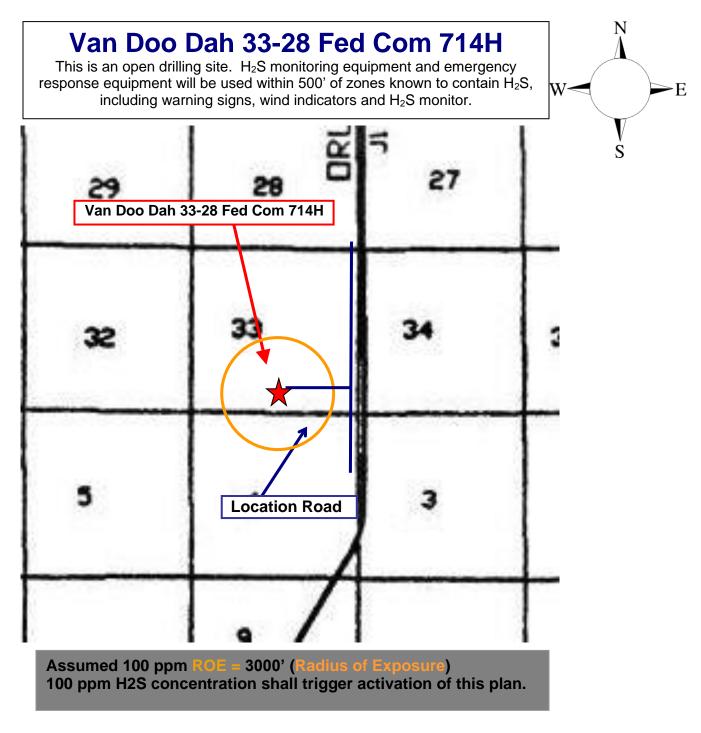
# Hydrogen Sulfide (H₂S) Contingency Plan

# For

# Van Doo Dah 33-28 Fed Com 714H

Sec-33 T-25S R-32E 180' FSL & 2276' FEL LAT. = 32.0801407' N (NAD83) LONG = 103.6788356' W

Lea 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 H₂S concentration shall trigger activation of this plan.

#### Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas

Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal			
Name	Formula	Gravity	Limit		Concentration			
Hydrogen Sulfide	H₂S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm			
Sulfur	50-	2.21	2	N/A	1000 nnm			
Dioxide	SO ₂	Air = 1	2 ppm		1000 ppm			

#### Characteristics of H₂S and SO₂

# **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 (H₂S) 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 (H₂S)
- 2. The proper use and maintenance of personal protective equipment and life support systems.
- 3. The proper use of H₂S 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 H₂S 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 H₂S Drilling Operations Plan

There will be weekly H₂S 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. H₂S detection and monitoring equipment:

Portable H₂S monitors positioned on location for best coverage and response. These units have warning lights which activate when H₂S 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 H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

#### 5. Metallurgy:

- A. All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.
- B. All elastomers used for packing and seals shall be H₂S trim.

#### 6. Communication:

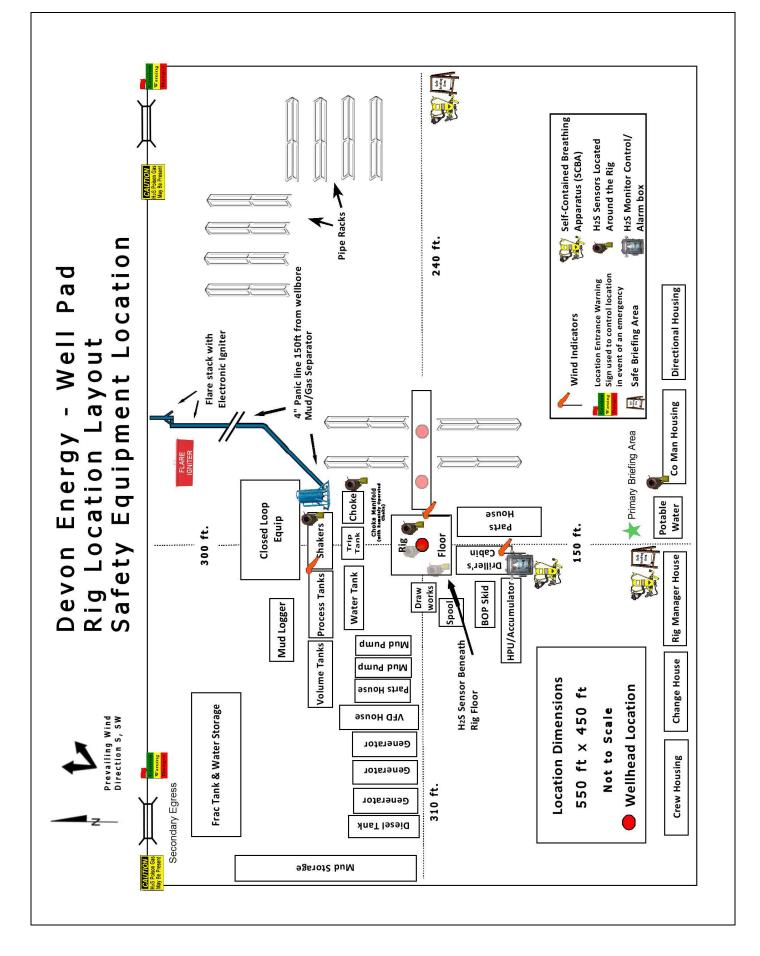
- A. Company personnel have/use cellular telephones in the field.
- B. Land line (telephone) communications at Office

#### 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 H₂S environment will use the closed chamber method of testing.
- B. There will be no drill stem testing.

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	Josh Harvey EHS Manager		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		
County/Lo Police / Sherriff	cation				
Eddy County			575-616-7155		
Lea County		575-397-9265			
Loving County		432-377-2411			
Winkler County			432-586-3461		
Fire					
Eddy County Lea County		575-616-7155 575-397-9265			
Loving County		432-377-2411			
Winkler County		432-577-2411 432-586-3461			
Ambulance & Hospital					
Eddy County			575-616-7155		
Lea County			575-397-9265		
Carlsbad Medical Center			575-887-4100		
Lea County Regional Medical	Center		575-492-5000		
Reeves County Hospital Dist	rict		432-447-3551		
Winkler County Memorial Ho	ospital		432-586-5864		
Helicopter/Lifeline Services					
Aero Care/Life Flight		575-616-7155 Ed	575-616-7155 Eddy County or 575-397-9265 Lea County		

•



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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	58190
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	11/3/2021
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	11/3/2021
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	11/3/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	11/3/2021

CONDITIONS

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