Form 3160-3 (June 2015)			FORM API OMB No. 1 Expires: Janua	004-0137
	ED STATES			
	OF THE INTERIOR AND MANAGEMENT		5. Lease Serial No.	
APPLICATION FOR PER		ENTED	6. If Indian, Allotee or 7	Trihe Name
AFFLICATION TON FER	IWIT TO DRILL ON AL	LNILN	o. 11 metan, 7 motec of	Tribe rame
lo Timo of words DDH I	REENTER		7. If Unit or CA Agreen	nent, Name and No.
1a. Type of work: DRILL				
	Well Other		8. Lease Name and Wel	1 No.
1c. Type of Completion: Hydraulic Fracturin	g Single Zone	Multiple Zone		
				[5753]
2. Name of Operator			9. API Well No. 30	
2. Ivame of Operator	[6137]	1	3. All Well No. 30-	025-49431
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or E	exploratory [97965]
4. Location of Well (Report location clearly and in	n accordance with any State req	uirements.*)	11. Sec., T. R. M. or Bl	k. and Survey or Area
At surface				
At proposed prod. zone				
14. Distance in miles and direction from nearest to	wn or post office*		12. County or Parish	13. State
15. Distance from proposed* location to nearest property or lease line, ft.	16. No of acres	in lease 17. Sp	acing Unit dedicated to this	well
(Also to nearest drig. unit line, if any) 18. Distance from proposed location*	19. Proposed De	enth 20 RI	M/BIA Bond No. in file	
to nearest well, drilling, completed, applied for, on this lease, ft.	17. Hoposed D	Zov Br	EW/BIA Bond 140. III IIIc	
21. Elevations (Show whether DF, KDB, RT, GL, o	etc.) 22. Approximat	e date work will start*	23. Estimated duration	
	24. Attachm	ents		
The following, completed in accordance with the re (as applicable)	equirements of Onshore Oil and	Gas Order No. 1, and th	ne Hydraulic Fracturing rule	per 43 CFR 3162.3-3
Well plat certified by a registered surveyor.	4.	Bond to cover the opera	tions unless covered by an ex	isting bond on file (see
2. A Drilling Plan.		Item 20 above).		
3. A Surface Use Plan (if the location is on Nationa SUPO must be filed with the appropriate Forest		Operator certification. Such other site specific in BLM.	nformation and/or plans as ma	y be requested by the
25. Signature	Name (Pr	rinted/Typed)	Da	ite
Title				
Approved by (Signature)	Name (Pr	inted/Typed)	Da	ite
Title	Office		1	
Application approval does not warrant or certify th applicant to conduct operations thereon. Conditions of approval, if any, are attached.	at the applicant holds legal or ea	quitable title to those rig	hts in the subject lease which	n would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. S of the United States any false, fictitious or fraudule				department or agency
NGMP Rec 09/30/2021			1	
	APPROVED WITH	CONDITION	10/	05/2021
SL	TOWER WITH	COMPA		
(Continued on page 2)	Vbbkoap		*(Instru	actions on page 2)
· · · · · · · · · · · · · · · · · · ·			(

Released to Imaging: 10/5/2021 11:39:37 AM Approval Date: 09/27/2021

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

State of New Mexico Energy, Minerals & Natural Resources Department CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

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) 476-3460 Fax: (505) 476-3462

□ AMENDED REPORT

WELL LOCAT	FION AND	ACREAGE	DEDICATION	PLAT
------------	----------	---------	------------	------

API Number	Pool Code	Pool Name					
30-025-49431	97965	WC-025 G-08 S233430J; WOLFCAMP					
Property Code	Pr	Property Name					
315753	WHITE DO	WHITE DOVE 17 FED COM					
OGRID No.	Ор	erator Name	Elevation				
6137	DEVON ENERGY PR	ODUCTION COMPANY, L.P.	3479.4'				

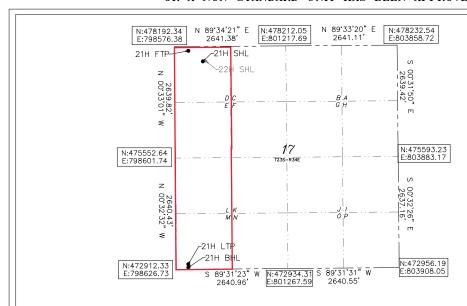
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	23-S	34-E		350	NORTH	718	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	23-S	34-E		20	SOUTH	330	WEST	LEA
Dedicated Acres Joint or Infill Consolidation Code Order No.									
160									

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



WHITE DOVE 17 FED COM 21H

EL: 3479.4' LAT:32.310914 LON:103.498354 N:477847.71 E:799297.72

FIRST TAKE POINT 100' FNL 330' FWL SEC. 17 LAT:32.311602 LON:103.499612 N:478094.80 E:798907.33

Note: All bearings recited herein are based on the New Mexico State Plane Coordinate System, NAD 83,New Mexico East Zone 3001, US Survey Feet, all distances are arid.

LAST TAKE POINT

100' FSL 330' FWL SEC. 17 LAT:32.297639 LON:103.499583

N:473015.07 E:798955.77

BOTTOM OF HOLE LAT:32.297419 LON:103.499582 N:472935.07 E:798956.53

OPERATOR CERTIFICATION

I hereby certify that the information I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

epelle. 2/23/2021 Signature Date

Rebecca Deal, Regulatory Analyst Printed Name

rebecca.deal@dvn.com E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

10/01/2020

Date of Survey

Signature & Seal of Professional Surveyor LAMAN ♦ WEX CO S/ONAL SUR 22404 2/03/2021 Certificate No. 22404

B.L. LAMAN

DRAWN BY: CM

Inten	t	As Dril	led									
API#	30-02	5-49431										
Ope	rator Nai	me:				Property	Name	:				Well Number
Kick (Off Point	(KOP)										
UL	Section	Township	Range	Lot	Feet	From	N/S	Feet	Fro	om E/W	County	
Latitu	ude				Longitu	ıde		<u> </u>			NAD	
First ⁻	Take Poir	nt (FTP)										
UL	Section	Township	Range	Lot	Feet	From	N/S	Feet	Fro	om E/W	County	
Latitu	ude				Longitu	ıde		<u> </u>			NAD	
<u>, </u>												
Last 1	ake Poin	t (LTP)										
UL	Section	Township	Range	Lot	Feet	From N/S	Feet	:	From E/W	Coun	ty	
Latitu	nqe				Longitu	ıde				NAD		
Is this	s well the	defining v	vell for th	ne Hori	zontal S _l	pacing Unit	?					
Is this	well an	infill well?										
	ll is yes p ng Unit.	lease provi	ide API if	availal	ole, Ope	rator Name	and v	well n	umber fo	Defini	ng well fo	r Horizontal
API#			1									
						١٠.						l saz II sa
Ope	rator Nai	ne:				Property	name	:				Well Number

KZ 06/29/2018

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Devon Ene	rgy Productio	n Company, L.P.	OGRID:	6137	Date:	09 /2	3 / 2021	
II. Type: ☑ Original □	Amendment	due to □ 19.15.27.	9.D(6)(a) NMA	C □ 19.15.27.9.D(6)(b) NMAC □	Other.		
If Other, please describe:								
III. Well(s): Provide the be recompleted from a si					wells proposed t	o be dril	led or proposed to	
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D		Anticipated roduced Water BBL/D	
See Attached								
IV. Central Delivery Point Name: White Dove 17 CTB 3 [See 19.15.27.9(D)(1) NMAC] V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point. Well Name API Spud Date TD Reached Completion Initial Flow First Production								
See Attached			Date	Commencement	Date Back	Date	Date	
See Attached								
VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation equipment to optimize gas capture. VII. Operational Practices: ☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. VIII. Best Management Practices: ☐ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.								

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. \square 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 \square will \square 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 🗆 does 🗀 does not anticipate that its existing well(s) connected to the same segment, or portion	n, 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 respo	nse to the	e increased	line pressure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1	978 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 d	lescription 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 certifies mai, ar	the 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, aking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or							
hundred percent of the arinto account the current a	able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one nticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. Sox, Operator will select one of the following:						
Well Shut-In. ☐ Operato D of 19.15.27.9 NMAC;	or will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection or						
	an. Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential s for the natural gas until a natural gas gathering system is available, including: power generation on lease; power generation for grid; compression on lease; liquids removal on lease; reinjection for underground storage; reinjection for temporary storage; reinjection for enhanced oil recovery; fuel cell production; and						
(i)	other alternative beneficial uses approved by the division.						

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

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

Signature:	
Printed Name: Lindsey 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:	

Well Name	STR	N/S Footage	Call	E/W Footage	Call	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
White Dove 17-20 Fed Com 21H	17-23S-34E	350	FNL	718	FWL	1200	1800	2500
White Dove 17-20 Fed Com 22H	17-23S-34E	350	FNL	748	FWL	1200	1800	2500
White Dove 17-20 Fed Com 23H	17-23S-34E	350	FNL	773	FEL	1200	1800	2500
White Dove 17-20 Fed Com 24H	17-23S-34E	350	FNL	803	FEL	1200	1800	2500

30-025-49431

Well Name	API	Spud Date	TD Reached Date	Completion Commence ment Date	Initial Flow Back Date	First Production Date
White Dove 17-20 Fed Com 21H		1/16/2022	2/15/2022	6/15/2022	6/15/2022	6/15/2022
White Dove 17-20 Fed Com 22H		2/2/2022	3/4/2022	7/2/2022	7/2/2022	7/2/2022
White Dove 17-20 Fed Com 23H		1/2/2022	2/1/2022	6/1/2022	6/1/2022	6/1/2022
White Dove 17-20 Fed Com 24H		12/17/2021	1/16/2022	5/16/2022	5/16/2022	5/16/2022

30-025-49431



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
 - o 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.

White Dove 17 Fed Com 21H

1. Geologic Formations

TVD of target	11523	Pilot hole depth	N/A
MD at TD:	16232	Deepest expected fresh water	

Basin

Dasin	Depth	Water/Mineral	
T	_		TT 1 16
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1000		
Salt	1100		
Base of Salt	4662		
Lamar	4662		
Delaware	5020		
Cherry Canyon	5936		
Brushy Canyon	7610		
1st Bone Spring Lime	8593		
Bone Spring 1st	9630		
Bone Spring 2nd	10204		
3rd Bone Spring Lime	10631		
Bone Spring 3rd	11189		
Wolfcamp	11386		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	48	H40	STC	0	1025	0	1025
9 7/8	8 5/8	32	P110	TLW	0	11189	0	11189
7 7/8	5 1/2	17	P110	ВТС	0	16232	0	11523

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

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	780	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	458	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	458	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	8851	9	3.27	Lead: Class H /C + additives
rioduction	712	10851	13.2	1.44	Tail: Class H / C + additives

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

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:		
			Annular		X	50% of rated working pressure		
Int 1	13-58"	5M	Bline	l Ram	X			
IIIt I	13-36	JIVI	Pipe	Ram		5M		
			Doub	le Ram	X	JIVI		
			Other*			1		
			Annular (5M)		X	50% of rated working pressure		
D 1 4	10.5/01	53.6	Blind Ram		X			
Production	13-5/8"	5M	Pipe Ram			5)/		
			Double Ram		X	5M		
			Other*					
			Annular (5M)					
			Blind Ram					
			Pipe Ram]		
			Doub	le Ram]		
			Other*					
N A variance is requested for	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.							
Y A variance is requested to 1	un a 5 M a	nnular on a	10M system					

5. Mud Program (Three String Design)

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
what will be used to monitor the loss of gain of fluid:	1 V 1/1 ason/ V isuai Wollitoring

6. Logging and Testing Procedures

Logging, (Logging, Coring and Testing						
	Will run GR/CNL from TD to surface (horizontal well - vertical portion of hole). Stated logs run will be in the						
X	Completion Report and shumitted to the BLM.						
	No logs are planned based on well control or offset log information.						
	Drill stem test? If yes, explain.						
	Coring? If yes, explain.						

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6291
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

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

White Dove 17 Fed Com 21H

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



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

Drilling Plan Data Report

09/28/2021

APD ID: 10400064944 **Submission Date:** 11/06/2020

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: WHITE DOVE 17 FED COM Well Number: 21H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical				Producing
ID	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	
1137123		3479	0	0	OTHER : Surface	NONE	N
1137124	RUSTLER	2479	1000	1000	SANDSTONE	NONE	N
1137125	TOP SALT	2379	1100	1100	SALT	NONE	N
1137133	BASE OF SALT	-1183	4662	4662	ANHYDRITE	NONE	N
1137137	DELAWARE	-1541	5020	5020	SHALE	NATURAL GAS, OIL	N
1137315	CHERRY CANYON	-2457	5936	5936	SILTSTONE	NATURAL GAS, OIL	N
1137316	BRUSHY CANYON	-4131	7610	7610	SANDSTONE	NATURAL GAS, OIL	N
1137122	BONE SPRING 1ST	-5114	8593	8593	SANDSTONE	NATURAL GAS, OIL	N
1137131	BONE SPRING 2ND	-6725	10204	10204	SANDSTONE	NATURAL GAS, OIL	N
1137129	BONE SPRING 3RD	-7152	10631	10631	LIMESTONE	NATURAL GAS, OIL	N
1137379	BONE SPRING 3RD	-7710	11189	11189	SANDSTONE	NATURAL GAS, OIL	N
1137132	WOLFCAMP	-7907	11386	11386	SHALE	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 11523

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

Requesting Variance? YES

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

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.



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.

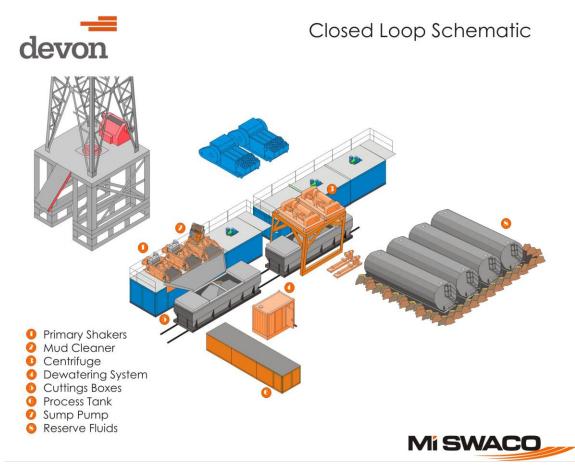
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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 dependant 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.



Fluid Technology

ContiTech Beattle Corp. Website: www.contitechbeattle.com

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 Beattle Corp

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



R16 212

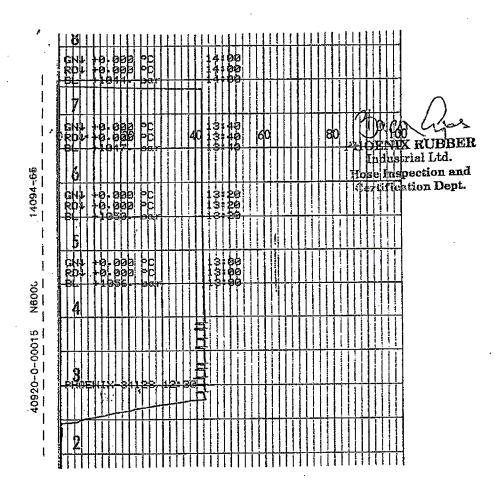


QUALITY DOCUMENT

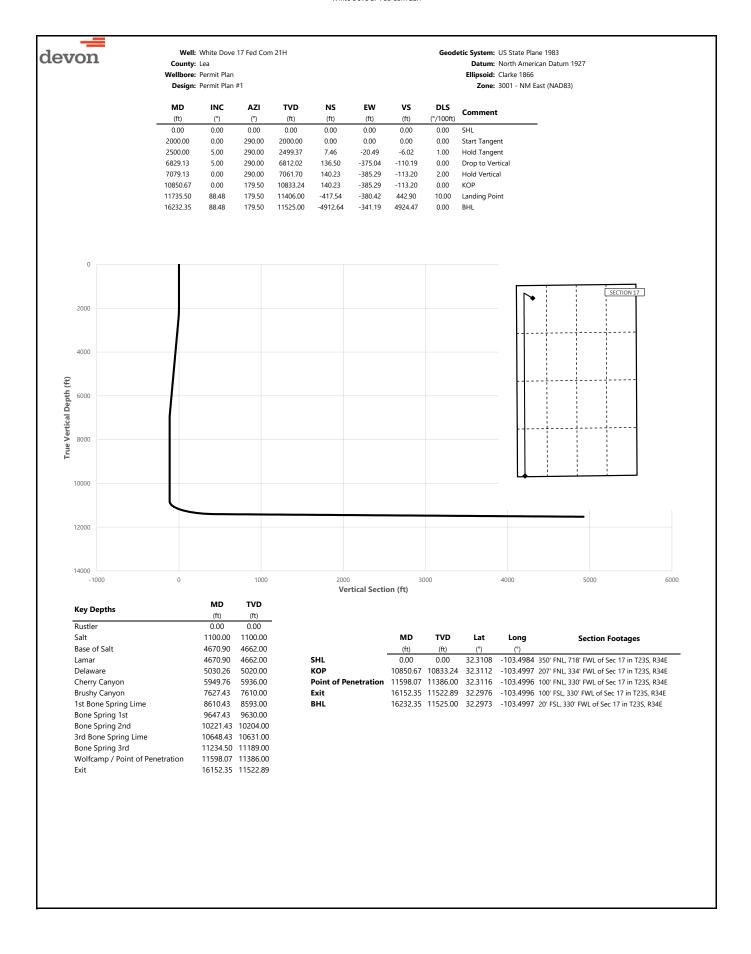
PHOENIX RUBBER INDUSTRIAL LTD.

** 6728 Szeged, Budapesti út 10. Hungary • H-6701 Szeged, P. O. Box 152 none: (3662) 556-737 • Fax: (3662) 556-738 SALES & MARKETING: H-1092 Budapest, Réday u. 42-44. Hungary • H-1440 Budapest, P. O. Box 26 Phone: (361) 456-4200 : Fax: (361) 217-2972, 456-4273 : www.taurusemerge.hu

QUAL INSPECTION	CERT. N°:	552					
PURCHASER:	Phoenix Beat	P.O. N°	1519FA-871				
PHOENIX RUBBER order No.	170466	3" (D	Choke	and Kill Hose			
HOSE SERIAL Nº	34128	NOMINAL / ACTU	AL LENGTH:	1	1,43 m		
W.P. 68,96 MPa 1	0000 psi	T.P. 103,4 M	Pa 1500	0 psi Dur	ation: 60	min.	
Pressure test with water at ambient temperature					· - -	·	
;	See atta	achment. (1 pa	ge)				
↑ 10 mm = 10 Min. → 10 mm = 25 MPa		COLIDI INC				. √3≈≥ , 	
		COUPLINGS	 		1		
Type 3" coupling with		Serial N°	1	Quality	Heat N°	<u> </u>	
4 1/16" Flange end	72	20 719		ISI 4130 ISI 4130	C7626 47357		
				:			
API Spec 16 C Temperature rate: "B"							
All metal parts are flawless WE CERTIFY THAT THE ABOVE PRESSURE TESTED AS ABOVE			N ACCORDA	NCE WITH THE	TERMS OF THE ORD	ER AND	
Date: 29. April. 2002.	Inspector		Quality Cont	HOEND Indust	KRUBBER rial Ltd. section and characteristics from the control of	in .	



VERIFIED TRUE CO.
PHOENIX RUBBER Q.C.





Well: White Dove 17 Fed Com 21H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 **Ellipsoid:** Clarke 1866

Zone: 3001 - NM East (NAD83)

MD INC TVD EW vs AZI NS DLS Comment (°/100ft) (ft) (ft) (°) (°) (ft) (ft) (ft) SHL 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 100.00 0.00 290.00 100.00 0.00 0.00 0.00 0.00 200.00 0.00 290.00 200.00 0.00 0.00 0.00 0.00 300.00 0.00 290.00 300.00 0.00 0.00 0.00 0.00 400.00 0.00 290.00 400.00 0.00 0.00 0.00 0.00 500.00 0.00 290.00 500.00 0.00 0.00 0.00 0.00 600.00 0.00 290.00 600.00 0.00 0.00 0.00 0.00 700.00 0.00 290.00 700.00 0.00 0.00 0.00 0.00 800.00 0.00 290.00 800.00 0.00 0.00 0.00 0.00 900.00 0.00 290.00 900.00 0.00 0.00 0.00 0.00 1000.00 0.00 290.00 1000.00 0.00 0.00 Rustler, 0.00 0.00 1100.00 0.00 290.00 1100.00 0.00 0.00 0.00 0.00 Salt. 1200.00 0.00 290.00 1200.00 0.00 0.00 0.00 0.00 1300.00 0.00 290.00 1300.00 0.00 0.00 0.00 0.00 1400.00 0.00 290.00 1400.00 0.00 0.00 0.00 1500.00 0.00 290.00 1500.00 0.00 0.00 0.00 0.00 1600.00 290.00 1600.00 0.00 0.00 0.00 0.00 0.00 1700.00 0.00 290.00 1700.00 0.00 0.00 0.00 0.00 1800.00 0.00 290.00 1800.00 0.00 0.00 0.00 0.00 1900.00 0.00 290.00 1900.00 0.00 0.00 0.00 0.00 2000.00 0.00 290.00 2000.00 0.00 0.00 0.00 0.00 Start Tangent 2099.99 2100.00 1.00 290.00 0.30 -0.82 -0.24 1.00 -3 28 2200.00 2.00 290.00 2199 96 1 19 -0.96 1.00 2300.00 3.00 290.00 2299.86 2.69 -7.38 -2.17 1.00 2400.00 4.00 290.00 2399.68 4.77 -13.12 -3.85 1.00 2500.00 5.00 290.00 2499.37 7.46 -20.49 -6.02 1.00 Hold Tangent 2600.00 5.00 290.00 2598 99 10 44 -28 68 -843 0.00 2700.00 290.00 2698.60 13.42 -36.87 -10.83 0.00 5.00 2800.00 5.00 290.00 2798.22 16.40 -45.06 -13.24 0.00 2900.00 5.00 290.00 2897.84 19.38 -53.25 -15.64 0.00 3000.00 5.00 290.00 2997.46 22 36 -61.44 -18.05 0.00 3100.00 5.00 290.00 3097.08 25.34 -69.63 -20.46 0.00 3200.00 290.00 3196.70 28.32 -77.82 -22.86 0.00 5.00 3300.00 5.00 290.00 3296.32 31.30 -86.01 -25.270.00 3400.00 5.00 290.00 3395.94 34 28 -94 20 -27 68 0.00 3500.00 5.00 290.00 3495.56 37.27 -102.39 -30.08 0.00 3595.18 3600.00 5.00 290.00 40.25 -110.58 -32.49 0.00 3700.00 5.00 290.00 3694.80 43.23 -118.77 -34.89 0.00 3800.00 5.00 290.00 3794.42 46.21 -126.96 -37.30 3900.00 5.00 290.00 3894.04 49.19 -135.15 -39.71 0.00 290.00 3993.66 4000.00 5.00 52.17 -143.34-42.110.00 4100.00 5.00 290.00 4093.28 55.15 -151.53 -44 52 0.00 4200.00 -159.72 5.00 290.00 4192.90 58.13 -46.93 0.00 4292.52 4300.00 5.00 290.00 61.11 -167.91 -49.33 0.00 4400.00 5.00 290.00 4392.14 64.09 -176.10-51.74 0.00 4500.00 5.00 290.00 4491.76 67.07 -184.29 -54.14 0.00 4600.00 5.00 290.00 4591.37 70.06 -192.48 -56.55 0.00 4670.90 5.00 290.00 4662.00 -198.28 -58.26 0.00 Base of Salt, Lamar 72.17 4700.00 5.00 290.00 4690.99 73.04 -200.67 -58.96 0.00 4800.00 5.00 290.00 4790.61 76.02 -208.86 -61.36 0.00 4900.00 5.00 290.00 4890.23 79.00 -217.05 -63.77 0.00 5000.00 5.00 290.00 4989.85 81.98 -225.24 -66.18 0.00 5030.26 5.00 290.00 5020.00 82.88 -227.72 -66.90 0.00 Delaware 5100.00 5.00 290.00 5089.47 -233.43 -68.58 0.00 84.96 5200.00 5189.09 -241.62 -70.99 5.00 290.00 87.94 0.00 5.00 290.00 90.92 0.00 5300.00 5288 71 -249 81 -73 39 5400.00 5.00 290.00 5388.33 93.90 -258.00 -75.80 0.00 5500.00 5.00 290.00 5487.95 96.88 -266.19 -78.21 0.00 5600.00 5.00 290.00 5587.57 99.86 -274.38 0.00 -80.61 5700.00 5.00 290.00 5687.19 102.84 -282.57 -83.02 0.00 5800.00 5786.81 105.83 -290.76 -85.43 5.00 290.00 0.00 5900.00 5.00 290.00 5886.43 108.81 -298.95 -87.83 0.00 5949 76 5936.00 5.00 290.00 110 29 -303.02 -89.03 0.00 Cherry Canyon 6000.00 5.00 290.00 5986.05 111.79 -307.14 -90.24 0.00 6100.00 5.00 290.00 6085.67 114.77 -315.33 -92.64 0.00 6200.00 6185.29 117.75 -323.52 0.00 5.00 290.00 -95.05 6300.00 5.00 290.00 6284 91 120.73 -331.71 -97 46 0.00 6400.00 5.00 290.00 6384.52 123.71 -339.90 -99.86 0.00 6500.00 5.00 290.00 6484.14 126.69 -348.09 -102.27 0.00 6583.76 6600.00 5.00 290.00 129.67 -356.28 -104.68 0.00



Well: White Dove 17 Fed Com 21H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

	_	r errint riai						2011e. 3001 - WW East (WAD03
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
6700.00	5.00	290.00	6683.38	132.65	-364.47	-107.08	0.00	
6800.00	5.00	290.00	6783.00	135.63	-372.66	-109.49	0.00	
6829.13	5.00	290.00	6812.02	136.50	-375.04	-110.19	0.00	Drop to Vertical
6900.00	3.58	290.00	6882.69	138.32	-380.02	-111.66	2.00	Diop to Vertical
		290.00					2.00	
7000.00	1.58		6982.58	139.86	-384.26	-112.90		Hald Martinal
7079.13	0.00	290.00	7061.70	140.23	-385.29	-113.20	2.00	Hold Vertical
7100.00	0.00	179.50	7082.57	140.23	-385.29	-113.20	0.00	
7200.00	0.00	179.50	7182.57	140.23	-385.29	-113.20	0.00	
7300.00	0.00	179.50	7282.57	140.23	-385.29	-113.20	0.00	
7400.00	0.00	179.50	7382.57	140.23	-385.29	-113.20	0.00	
7500.00	0.00	179.50	7482.57	140.23	-385.29	-113.20	0.00	
7600.00	0.00	179.50	7582.57	140.23	-385.29	-113.20	0.00	
7627.43	0.00	179.50	7610.00	140.23	-385.29	-113.20	0.00	Brushy Canyon
7700.00	0.00	179.50	7682.57	140.23	-385.29	-113.20	0.00	
7800.00	0.00	179.50	7782.57	140.23	-385.29	-113.20	0.00	
7900.00	0.00	179.50	7882.57	140.23	-385.29	-113.20	0.00	
8000.00	0.00	179.50	7982.57	140.23	-385.29	-113.20	0.00	
8100.00	0.00	179.50	8082.57	140.23	-385.29	-113.20	0.00	
8200.00	0.00	179.50	8182.57	140.23	-385.29	-113.20	0.00	
8300.00	0.00	179.50	8282.57	140.23	-385.29	-113.20	0.00	
8400.00	0.00	179.50	8382.57	140.23	-385.29	-113.20	0.00	
8500.00	0.00	179.50	8482.57	140.23	-385.29	-113.20	0.00	
8600.00	0.00	179.50	8582.57	140.23	-385.29	-113.20	0.00	
8610.43	0.00	179.50	8593.00	140.23	-385.29	-113.20	0.00	1st Bone Spring Lime
8700.00	0.00	179.50	8682.57		-385.29 -385.29		0.00	ist bone spring time
				140.23		-113.20 112.20		
8800.00	0.00	179.50	8782.57	140.23	-385.29	-113.20	0.00	
8900.00	0.00	179.50	8882.57	140.23	-385.29	-113.20	0.00	
9000.00	0.00	179.50	8982.57	140.23	-385.29	-113.20	0.00	
9100.00	0.00	179.50	9082.57	140.23	-385.29	-113.20	0.00	
9200.00	0.00	179.50	9182.57	140.23	-385.29	-113.20	0.00	
9300.00	0.00	179.50	9282.57	140.23	-385.29	-113.20	0.00	
9400.00	0.00	179.50	9382.57	140.23	-385.29	-113.20	0.00	
9500.00	0.00	179.50	9482.57	140.23	-385.29	-113.20	0.00	
9600.00	0.00	179.50	9582.57	140.23	-385.29	-113.20	0.00	
9647.43	0.00	179.50	9630.00	140.23	-385.29	-113.20	0.00	Bone Spring 1st
9700.00	0.00	179.50	9682.57	140.23	-385.29	-113.20	0.00	
9800.00	0.00	179.50	9782.57	140.23	-385.29	-113.20	0.00	
9900.00	0.00	179.50	9882.57	140.23	-385.29	-113.20	0.00	
10000.00	0.00	179.50	9982.57	140.23	-385.29	-113.20	0.00	
10100.00	0.00	179.50	10082.57	140.23	-385.29	-113.20	0.00	
10200.00	0.00	179.50	10182.57	140.23	-385.29	-113.20	0.00	
10221.43	0.00	179.50	10204.00	140.23	-385.29	-113.20	0.00	Bone Spring 2nd
10300.00		179.50		140.23			0.00	bone Spring Zna
	0.00		10282.57		-385.29	-113.20 112.20		
10400.00	0.00	179.50	10382.57	140.23	-385.29	-113.20	0.00	
10500.00	0.00	179.50	10482.57	140.23	-385.29	-113.20	0.00	
10600.00	0.00	179.50	10582.57	140.23	-385.29	-113.20	0.00	2-19
10648.43	0.00	179.50	10631.00	140.23	-385.29	-113.20	0.00	3rd Bone Spring Lime
10700.00	0.00	179.50	10682.57	140.23	-385.29	-113.20	0.00	
10800.00	0.00	179.50	10782.57	140.23	-385.29	-113.20	0.00	
10850.67	0.00	179.50	10833.24	140.23	-385.29	-113.20	0.00	KOP
10900.00	4.93	179.50	10882.51	138.11	-385.27	-111.08	10.00	
11000.00	14.93	179.50	10980.89	120.88	-385.12	-93.91	10.00	
11100.00	24.93	179.50	11074.78	86.83	-384.82	-59.96	10.00	
11200.00	34.93	179.50	11161.33	37.00	-384.38	-10.28	10.00	
11234.50	38.38	179.50	11189.00	16.41	-384.20	10.25	10.00	Bone Spring 3rd
11300.00	44.93	179.50	11237.91	-27.10	-383.82	53.63	10.00	· -
11400.00	54.93	179.50	11302.20	-103.53	-383.16	129.83	10.00	
11500.00	64.93	179.50	11352.24	-189.97	-382.40	216.00	10.00	
11598.07	74.74	179.50	11386.00	-281.91	-381.60	307.67	10.00	Wolfcamp / Point of Penetration
11600.00	74.93	179.50	11386.50	-283.77	-381.58	309.53	10.00	
11700.00	84.93	179.50	11403.96	-382.10	-380.73	407.56	10.00	
								Landing Roint
11735.50	88.48	179.50	11406.00	-417.54	-380.42	442.90	10.00	Landing Point
11800.00	88.48	179.50	11407.71	-482.01	-379.86	507.17	0.00	
11900.00	88.48	179.50	11410.35	-581.97	-378.98	606.83	0.00	
12000.00	88.48	179.50	11413.00	-681.94	-378.11	706.49	0.00	
12100.00	88.48	179.50	11415.65	-781.90	-377.24	806.15	0.00	
12200.00	88.48	179.50	11418.29	-881.86	-376.36	905.82	0.00	
12300.00	88.48	179.50	11420.94	-981.82	-375.49	1005.48	0.00	
12400.00	88.48	179.50	11423.59	-1081.78	-374.62	1105.14	0.00	
12500.00	88.48	179.50	11426.23	-1181.74	-373.75	1204.80	0.00	



Well: White Dove 17 Fed Com 21H

County: Lea
Wellbore: Permit Plan
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
12600.00	88.48	179.50	11428.88	-1281.70	-372.87	1304.46	0.00	
12700.00	88.48	179.50	11431.52	-1381.66	-372.00	1404.12	0.00	
12800.00	88.48	179.50	11434.17	-1481.62	-371.13	1503.78	0.00	
12900.00	88.48	179.50	11436.82	-1581.59	-370.26	1603.44	0.00	
13000.00	88.48	179.50	11439.46	-1681.55	-369.38	1703.10	0.00	
13100.00	88.48	179.50	11442.11	-1781.51	-368.51	1802.76	0.00	
13200.00	88.48	179.50	11444.76	-1881.47	-367.64	1902.42	0.00	
13300.00	88.48	179.50	11447.40	-1981.43	-366.77	2002.08	0.00	
13400.00	88.48	179.50	11450.05	-2081.39	-365.89	2101.74	0.00	
13500.00	88.48	179.50	11452.70	-2181.35	-365.02	2201.40	0.00	
13600.00	88.48	179.50	11455.34	-2281.31	-364.15	2301.06	0.00	
13700.00	88.48	179.50	11457.99	-2381.28	-363.28	2400.72	0.00	
13800.00	88.48	179.50	11460.64	-2481.24	-362.40	2500.38	0.00	
13900.00	88.48	179.50	11463.28	-2581.20	-361.53	2600.04	0.00	
14000.00	88.48	179.50	11465.93	-2681.16	-360.66	2699.70	0.00	
14100.00	88.48	179.50	11468.57	-2781.12	-359.79	2799.36	0.00	
14200.00	88.48	179.50	11471.22	-2881.08	-358.91	2899.03	0.00	
14300.00	88.48	179.50	11473.87	-2981.04	-358.04	2998.69	0.00	
14400.00	88.48	179.50	11476.51	-3081.00	-357.17	3098.35	0.00	
14500.00	88.48	179.50	11479.16	-3180.96	-356.29	3198.01	0.00	
14600.00	88.48	179.50	11481.81	-3280.93	-355.42	3297.67	0.00	
14700.00	88.48	179.50	11484.45	-3380.89	-354.55	3397.33	0.00	
14800.00	88.48	179.50	11487.10	-3480.85	-353.68	3496.99	0.00	
14900.00	88.48	179.50	11489.75	-3580.81	-352.80	3596.65	0.00	
15000.00	88.48	179.50	11492.39	-3680.77	-351.93	3696.31	0.00	
15100.00	88.48	179.50	11495.04	-3780.73	-351.06	3795.97	0.00	
15200.00	88.48	179.50	11497.69	-3880.69	-350.19	3895.63	0.00	
15300.00	88.48	179.50	11500.33	-3980.65	-349.31	3995.29	0.00	
15400.00	88.48	179.50	11502.98	-4080.62	-348.44	4094.95	0.00	
15500.00	88.48	179.50	11505.62	-4180.58	-347.57	4194.61	0.00	
15600.00	88.48	179.50	11508.27	-4280.54	-346.70	4294.27	0.00	
15700.00	88.48	179.50	11510.92	-4380.50	-345.82	4393.93	0.00	
15800.00	88.48	179.50	11513.56	-4480.46	-344.95	4493.59	0.00	
15900.00	88.48	179.50	11516.21	-4580.42	-344.08	4593.25	0.00	
16000.00	88.48	179.50	11518.86	-4680.38	-343.21	4692.91	0.00	
16100.00	88.48	179.50	11521.50	-4780.34	-342.33	4792.57	0.00	
16152.35	88.48	179.50	11522.89	-4832.67	-341.88	4844.74	0.00	Exit
16200.00	88.48	179.50	11524.15	-4880.30	-341.46	4892.23	0.00	
16232.35	88.48	179.50	11525.00	-4912.64	-341.19	4924.47	0.00	BHL

devon

Well: White Dove 17 Fed Com 21H

County: Lea Wellbore: Permit Plan

Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866 **Zone:** 3001 - NM East (NAD83)

INC TVD MD AZI NS EW ٧S DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (°/100ft)

Well: White Dove 17 Fed Com 21H County: Lea

Wellbore: Permit Plan

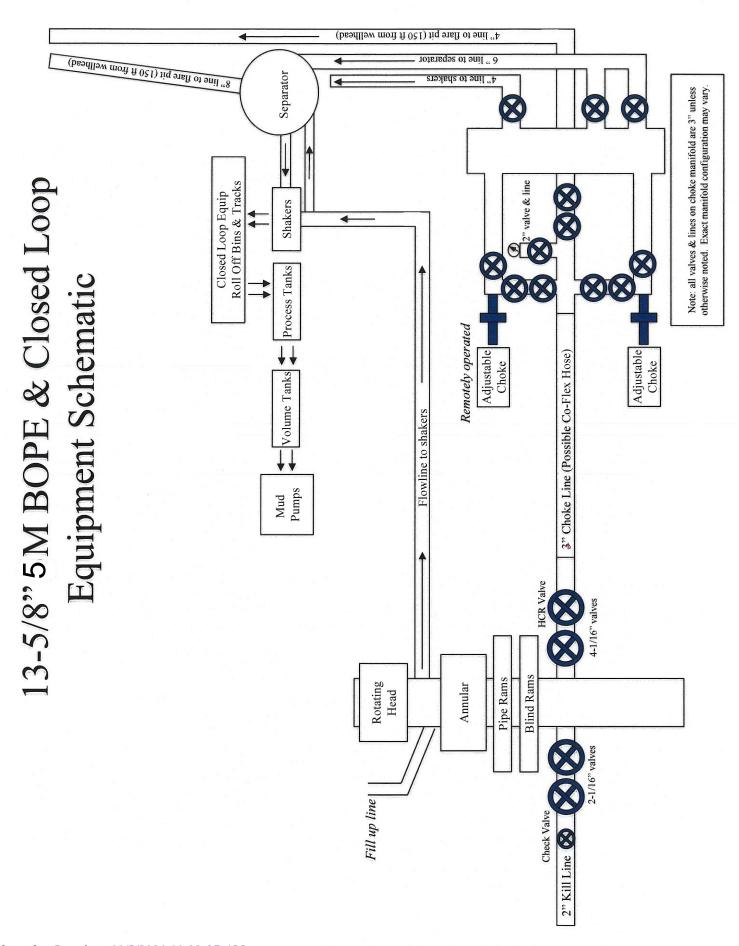
Design: Permit Plan #1

Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866 **Zone:** 3001 - NM East (NAD83)

INC TVD EW MD AZI NS ٧S DLS Comment (ft) (°) (°) (ft) (ft) (ft) (ft) (°/100ft)



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. 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 5000 (5M) psi.

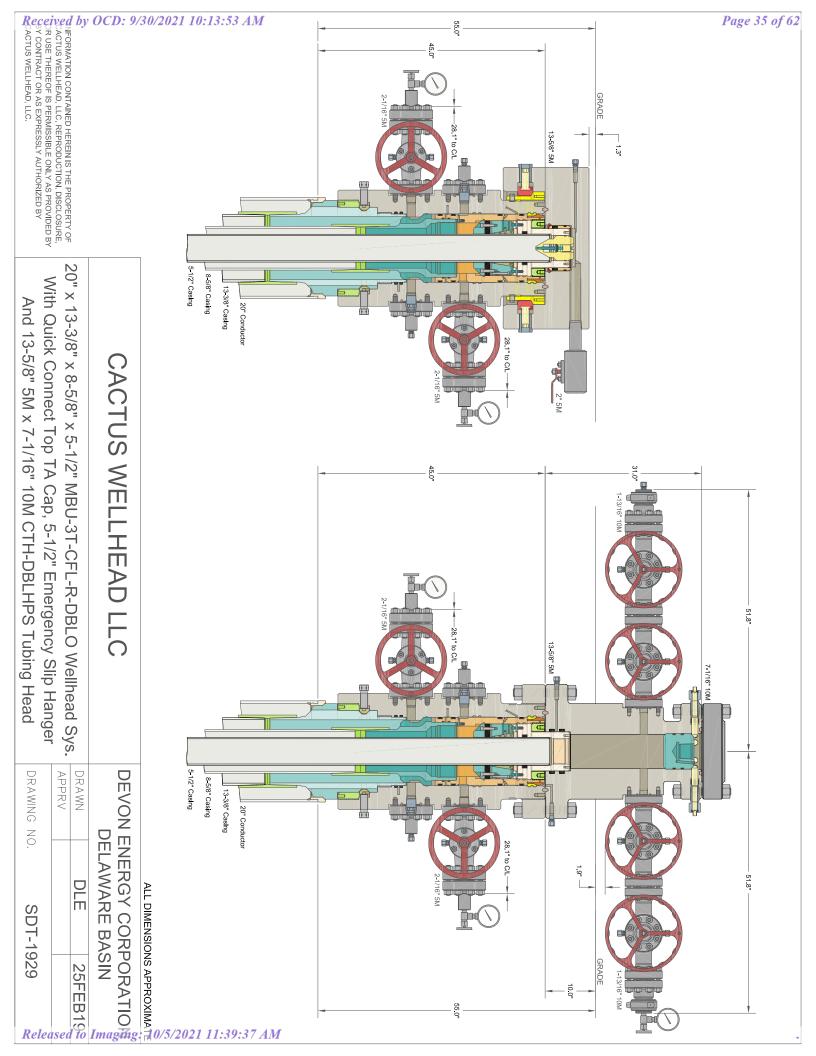
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial 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 5M will already be installed on the wellhead.

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

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



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	

Production

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	

Production

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	



U. S. Steel Tubular Products 13.375" 48.00lbs/ft (0.330" Wall) H40

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MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	40,000				psi
Maximum Yield Strength	80,000				psi
Minimum Tensile Strength	60,000				psi
DIMENSIONS	Pipe	втс	LTC	sтс	
Outside Diameter	13.375			14.375	in.
Wall Thickness	0.330				in.
Inside Diameter	12.715			12.715	in.
Standard Drift	12.559	12.559		12.559	in.
Alternate Drift					in.
Nominal Linear Weight, T&C	48.00				lbs/ft
Plain End Weight	46.02				lbs/ft
PERFORMANCE	Pipe	втс	LTC	sтс	
Minimum Collapse Pressure	740	740		740	psi
Minimum Internal Yield Pressure	1,730	1,730		1,730	psi
Minimum Pipe Body Yield Strength	541				1,000 lbs
Joint Strength				322	1,000 lbs
Reference Length				4,473	ft
MAKE UD DATA	Pipe	втс	LTC	sтс	
MAKE-UP DATA					
Make-Up Loss				3.50	in.
				3.50 2,420	in. ft-lbs

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S connections@uss.com Spring, Texas 77380

1-877-893-9461 www.usstubular.com

Surface

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	None	
	above TOC		
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			

Intermediate

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	None	
	above TOC		
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			



TEC-LOCK WEDGE

8.625" 32.00 LB/FT (.352" Wall) BORUSAN MANNESMANNP110 HSCY

Pipe Body Data

Nominal OD:	8.625	in	
Nominal Wall:	.352	in	
Nominal Weight:	32.00	lb/ft	
Plain End Weight:	31.13	lb/ft	
Material Grade:	P110 HSCY		
Mill/Specification:	BORUSAN M	ANNESMANN	
Yield Strength:	125,000	psi	
Tensile Strength:	125,000	psi	
Nominal ID:	7.921	in	
API Drift Diameter:	7.796	in	
Special Drift Diameter:	7.875	in	
RBW:	87.5 %		
Body Yield:	1,144,000	lbf	
Burst:	8,930	psi	
Collapse:	4,230	psi	
i de la companya de			

Connection Data

Standard OD:	9.000	in
Pin Bored ID:	7.921	in
Critical Section Area:	8.61433	in²
Tensile Efficiency:	94.2 %	
Compressive Efficiency:	100.0 %	
Longitudinal Yield Strength:	1,077,000	lbf
Compressive Limit:	1,144,000	lbf
Internal Pressure Rating:	8,930	psi
External Pressure Rating:	4,230	psi
Maximum Bend:	62.6	°/100

Operational Data

29,900	ft*lbf
37,375	ft*lbf
80,900	ft*lbf
89,900	ft*lbf
5.97	in
	37,375 80,900 89,900

Notes

Operational Torque is equivalent to the Maximum Make-Up Torque.



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Please visit http://www.huntingplc.com for the latest technical information.



U. S. Steel Tubular Products 5.500" 17.00lbs/ft (0.304" Wall) P110

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MECHANICAL PROPERTIES	Pipe	втс	LTC	STC	
Minimum Yield Strength	110,000				psi
Maximum Yield Strength	140,000				psi
Minimum Tensile Strength	125,000				psi
DIMENSIONS	Pipe	втс	LTC	STC	
Outside Diameter	5.500	6.050	6.050		in.
Wall Thickness	0.304				in.
Inside Diameter	4.892	4.892	4.892		in.
Standard Drift	4.767	4.767	4.767		in.
Alternate Drift					in.
Nominal Linear Weight, T&C	17.00				lbs/ft
Plain End Weight	16.89				lbs/ft
PERFORMANCE	Pipe	втс	LTC	STC	
Minimum Collapse Pressure	7,480	7,480	7,480		psi
Minimum Internal Yield Pressure	10,640	10,640	10,640		psi
Minimum Pipe Body Yield Strength	546				1,000 lbs
Joint Strength		568	445		1,000 lbs
		22 271	17,449		ft
Reference Length		22,271	17,445		
Reference Length MAKE-UP DATA	Pipe	BTC	LTC	STC	
					in.
MAKE-UP DATA	Pipe	втс	LTC	STC	

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> U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S connections@uss.com Spring, Texas 77380

1-877-893-9461 www.usstubular.com

Production

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 White Dove 17

Well Pad, Central Tank Battery, Access Roads, Buried Flowlines (Composite Flowline and Composite Gas Lift Line) and Electric Lines

Devon Energy Production Company, L.P.

White Dove 17	'-20	FED	21H	,	White Dov	e Well F	Pad 2		
Surface	Section	17	T23S,	R34E	350	FNL,	718	FWL,	Lea County
Bottom Hole	Section	20	T23S,	R34E	20	FSL,	330	FWL,	Lea County
									•
White Dove 17	'-20	FED	22H		White Dov	e Well F	Pad 2		
Surface	Section	17	T23S,	R34E	350	FNL,	748	FWL,	Lea County
Bottom Hole	Section	20	T23S,	R34E	20	FSL,	1870	FWL,	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.

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Noxious Weeds
Special Requirements
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Notification
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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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | **Devon Energy Production Company LP**

LEASE NO.: NMNM97157

LOCATION: Section 17, T.23 S., R.34 E., NMPM

COUNTY: Lea County, New Mexico

WELL NAME & NO.: White Dove 15 Fed Com 21H

SURFACE HOLE FOOTAGE: 350'/N & 718'/W **BOTTOM HOLE FOOTAGE** 20'/S & 330'/W

WELL NAME & NO.: White Dove 15 Fed Com 22H

SURFACE HOLE FOOTAGE: 350'/N & 748'/W **BOTTOM HOLE FOOTAGE** 20'/S & 1870'/W

WELL NAME & NO.: White Dove 15 Fed Com 23H

SURFACE HOLE FOOTAGE: 350'/N & 803'/E **BOTTOM HOLE FOOTAGE** 20'/S & 1870'/E

WELL NAME & NO.: White Dove 15 Fed Com 24H

SURFACE HOLE FOOTAGE: 350'/N & 773'/E **BOTTOM HOLE FOOTAGE** 20'/S & 330'/E

COA

H2S	© Yes	□ No	
Potash	■ None	☐ Secretary	R -111-P
Cave/Karst Potential	© Low	☐ Medium	☐ High
Cave/Karst Potential	Critical		
Variance	None	☑ Flex Hose	C Other
Wellhead	Conventional	Multibowl	□ Both
Other	☐4 String Area	☐ Capitan Reef	□WIPP
Other	Fluid Filled	✓ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	▼ COM	□ Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** group, **Wildcat** formations and **Bell Lake** 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.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 1175 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 **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - 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 a CBL from TD of the 8-5/8" casing to surface. Submit results to BLM.</u>

- 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. 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 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. When the Communitization Agreement number is known, it shall also be on the sign.

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 CountyCall the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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

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

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

D. WASTE MATERIAL AND FLUIDS

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

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



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

White Dove 17 Fed Com 21H

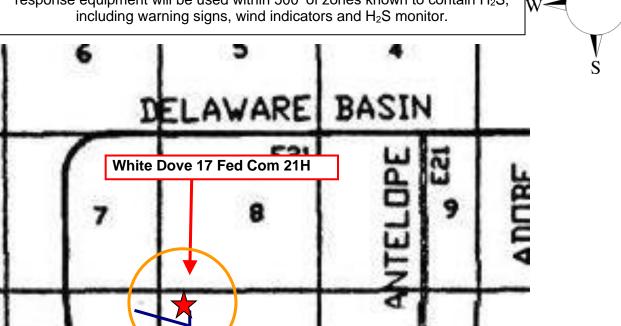
Sec-17 T-23S R-34E 350' FNL & 718' FWL LAT. = 32.310914' N (NAD83) LONG = 103.498354' W

Lea County NM

 \mathbf{E}

White Dove 17 Fed Com 21H

This is an open drilling site. H_2S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H_2S , including warning signs, wind indicators and H_2S monitor.



Assumed 100 ppm ROE = 3000' (Radius of Exposure)
100 ppm H2S concentration shall trigger activation of this plan.

Location Road

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. There are no homes or buildings in or near the ROE.

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
 - 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

Characteristics of H₂S and SO₂

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

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 H₂S 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 H₂S.

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:

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

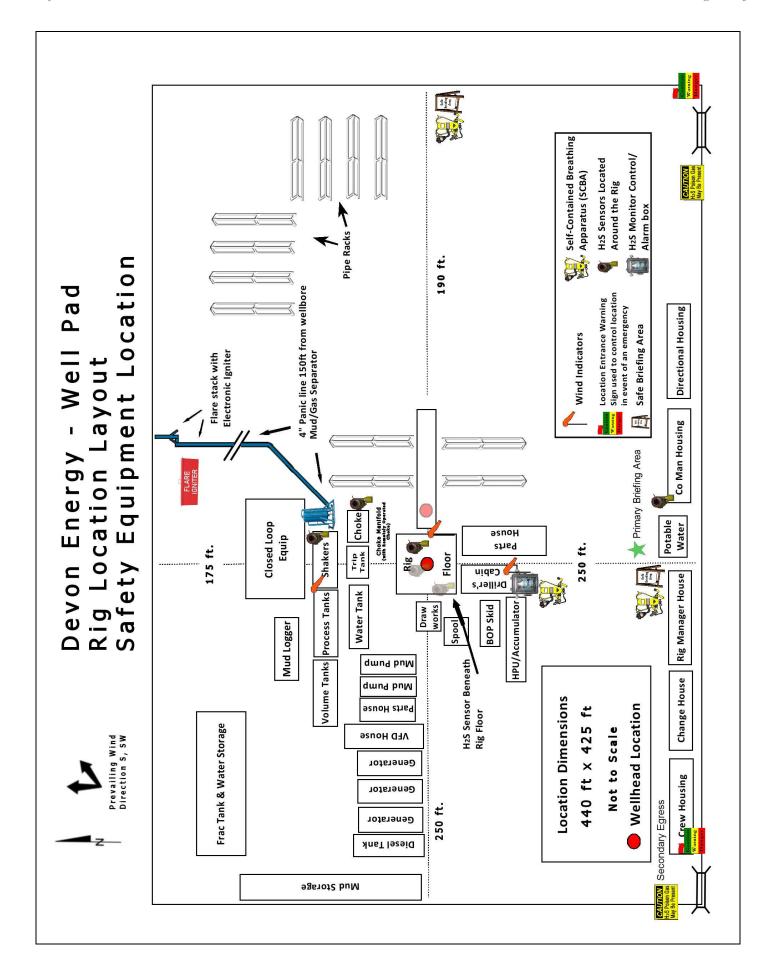
7. Well testing:

- 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.

Position rilling Manager rilling Manager Drilling VP EHS Manager HS Supervisor HS Professional Lead EHS Lead EHS Lead EHS Lead EHS	8 4 4 4 4 5 5 9	hone Number 332-967-7912 405-552-6514 05-228-2415 05-228-2440 05-552-5334 75-703-5712 80-579-7052 03-720-8315 18-839-2046	918-500-5536 832-969-8145 575-703-5712 580-579-7052 903-720-8315
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Lead EHS		18-839-2046	
	9		918-839-2046
Basin Business		18-413-3291	918-413-3291
	Unit (D	BBU) Emergend	cy Contacts
			575-616-7155
			575-397-9265
			432-377-2411
			432-586-3461
			575-616-7155
			575-397-9265
			432-377-2411
			432-586-3461
Eddy County		575-616-7155	
			575-397-9265
			575-887-4100
r			575-492-5000
			432-447-3551
			432-586-5864
		575-616-7155 Fd	ldy County or 575-397-9265
			-

844-449-0911

OHSI



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

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

Action 53152

CONDITIONS

Operator:	OGRID:			
DEVON ENERGY PRODUCTION COMPANY, LP	6137			
333 West Sheridan Ave.	Action Number:			
Oklahoma City, OK 73102	53152			
	Action Type:			
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)			

CONDITIONS

Created	Condition	Condition
Ву		Date
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/5/2021
	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	10/5/2021
	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	10/5/2021
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing	10/5/2021