Form 3160-3 (June 2015) UNITED STATES		FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018				
DEPARTMENT OF THE IN' BUREAU OF LAND MANAG		5. Lease Serial No.				
APPLICATION FOR PERMIT TO DR	ILL OR REENTER	6. If Indian, Allotee	or Tribe Name			
1a. Type of work: DRILL REF	ENTER	7. If Unit or CA Agr	reement, Name and No.			
1b. Type of Well: Oil Well Gas Well Other						
	gle Zone Multiple Zone	8. Lease Name and	Well No.			
re. Type of Completion. Tryuraune Fracturing Sing	gie Zone wuitiple Zone					
2. Name of Operator		9. API Well No.				
3a. Address 3	b. Phone No. (include area code)	10. Field and Pool, o	or Exploratory			
4. Location of Well (Report location clearly and in accordance with	th any State requirements.*)	11. Sec., T. R. M. or	Blk. and Survey or Are			
At surface						
At proposed prod. zone						
14. Distance in miles and direction from nearest town or post office	*	12. County or Parish	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 acres in lease 17. Spacin	ng Unit dedicated to the	nis well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 20. BLM/	BIA Bond No. in file				
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated durati	on			
	24. Attachments					
The following, completed in accordance with the requirements of C (as applicable)	Onshore Oil and Gas Order No. 1, and the F	Hydraulic Fracturing r	ule per 43 CFR 3162.3-3			
Well plat certified by a registered surveyor.	4. Bond to cover the operation	s unless covered by ar	n existing bond on file (se			
 A Drilling Plan. A Surface Use Plan (if the location is on National Forest System 	Lands, the S. Operator certification.					
SUPO must be filed with the appropriate Forest Service Office)	6. Such other site specific infor BLM.	mation and/or plans as	may be requested by the			
25. Signature	Name (Printed/Typed)		Date			
Title						
Approved by (Signature)	Name (Printed/Typed)		Date			
Title	Office					
Application approval does not warrant or certify that the applicant lapplicant to conduct operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights	in the subject lease w	hich would entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, mal of the United States any false, fictitious or fraudulent statements or			iny department or agenc			
·						



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

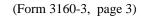
 $0. \ SHL: \ SESW / \ 200 \ FSL / \ 1870 \ FWL / \ TWSP: \ 25S / \ RANGE: \ 31E / \ SECTION: \ 22 / \ LAT: \ 32.109101 / \ LONG: \ -103.7684362 (\ TVD: \ 0 \ feet, \ MD: \ 0 \ feet)$ $PPP: \ SESW / \ 100 \ FSL / \ 2310 \ FWL / \ TWSP: \ 25S / \ RANGE: \ 31E / \ SECTION: \ 22 / \ LAT: \ 32.108827 / \ LONG: \ -103.7670165 (\ TVD: \ 11670 \ feet, \ MD: \ 11708 \ feet)$ $BHL: \ NENW / \ 20 \ FNL / \ 2310 \ FWL / \ TWSP: \ 25S / \ RANGE: \ 31E / \ SECTION: \ 15 / \ LAT: \ 32.1376291 / \ LONG: \ -103.7669158 (\ TVD: \ 12644 \ feet, \ MD: \ 23039 \ feet)$

BLM Point of Contact

Name: Candy Vigil

Title: LIE

Phone: (575) 234-5982 Email: cvigil@blm.gov



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

<u>District III</u> 1000 Rio Brazos Road, 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 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Santa Fe, NM 87505

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

☐ AMENDED REPORT

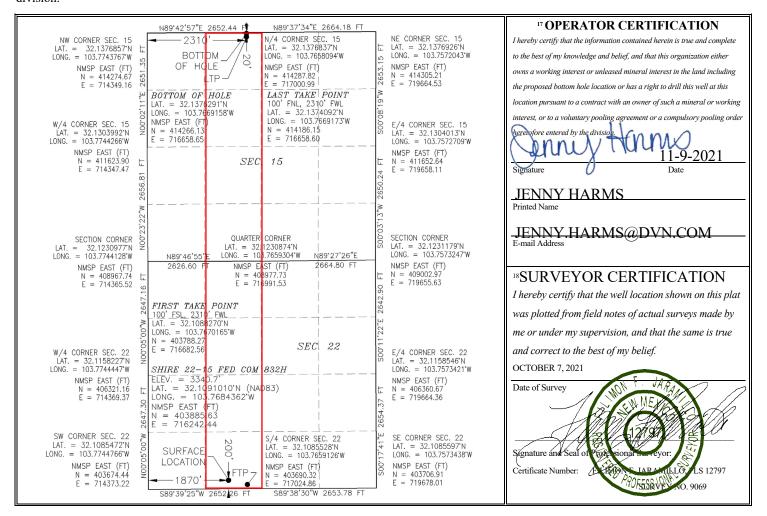
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	¹ API Number		² Pool Code ³ Pool Name		
		98220	Purple Sage; Wolfcamp		
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number	
		SHIRE 2	2-15 FED COM	832H	
⁷ OGRID No.		8 O _I	⁹ Elevation		
6137		DEVON ENERGY PRO	3340.7		

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	22	25 S	31 E		200	SOUTH	1870	WEST	EDDY
" 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
C	15	25 S	31 E		20	NORTH	2310	WEST	EDDY
12 Dedicated Acre	s 13 Joint	or Infill 14	Consolidation	n Code			15 Order No.		
320									

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



Intent	t X	As Dril	led												
API#															
DEV	rator Nai /ON EN MPANY	IERGY P	RODUC	CTION	I	Property Name: SHIRE 22-15 FED COM							Well Number 832H		
		(
	Off Point	1	D	1	F		F N	1/6	F			E ()A/	Commen		
UL	Section 22	Township 25S	Range 31E	Lot	Feet 48 FSL	-	From N	1/5	Feet 2304		From	E/W	County EDDY		
Latitu 32.	^{ide} .108589	91				Longitude									
First 7	Take Poir	it (FTP)													
UL N	Section 22	Township 25S	Range 31E	Lot	Feet 100		From N		Feet 2310		From WES		County EDDY		
Latitu					Longitu 103.7	ıde							NAD 83		
Last T	ake Poin	t (LTP)	Range	Lot	Feet	From	n N/S	Feet	F	From E,	/w T	Count	.v		
С	15	25S	31E		100	NOF	RTH	231		VEST		EDD'			
32.1	137409	2			Longitu 103.7		173					NAD 83			
Is this	well the	defining v	vell for th	e Horiz	zontal Sp	oacing	; Unit?		N						
Is this	well an	infill well?		Υ											
	l is yes p ng Unit.	lease provi	de API if	availab	ole, Oper	rator N	Name	and v	vell nur	mber [.]	for D	efinir	ng well fo	r Horizontal	
API#															
Ope	rator Nai	ne:	l			Prop	erty N	lame:						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 EN	ERGY PRODUCT	TION COMPANY, LP	OGRID: 613	37	Date:	11_/	9/2021		
II. Type: ☐ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.									
If Other, please describe	:								
III. Well(s): Provide the be recompleted from a s	e following inf ingle well pad	Formation for each to or connected to a connected t	new or recomple entral delivery p	eted well or set of vooint.	wells proposed t	o be dri	lled or proposed to		
Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D			Anticipated roduced Water BBL/D		
See attachment.									
V. Anticipated Schedul proposed to be recomple Well Name	e: Provide the	following informa			rell or set of well	ls propo	7.9(D)(1) NMAC] sed to be drilled or First Production Date		
			Duit		Duto Buok		Duto		
See attachment									
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.									

NATURAL GAS MANAGEMENT PLAN Section 1 - Plan Description

III. Wellis): 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		FOOTA	AGES		Anticipated Oil BBL/D	Anticipated Gas	Anticipated Produced Water BBL/D
SHIRE 22-15 FED COM 822H	SHIRE 22 CTB 2		22-25S-31E	1840	FWL	200	FSL	(+/-)7968mc	fd/(+/-)528bopd/(+/-)4567bwpd
SHIRE 22-15 FED COM 832H	SHIRE 22 CTB 2		22-25S-31E	1870	FWL	200	FSL	(+/-)7968mc	fd/(+/-)528bopd/(+/-)4567bwpd
SHIRE 22-15 FED COM 803H	SHIRE 22 CTB 2		22-25S-31E	1900	FWL	200	FSL		fd/(+/-)528bopd/(
SHIRE 22-15 FED COM 823H	SHIRE 22 CTB 2		22-25S-31E	1820	FEL	200	FSL	(+/-)7968mc	fd/(+/-)528bopd/(+/-)4567bwpd
SHIRE 22-15 FED COM 833H	SHIRE 22 CTB 2		22-25S-31E	1790	FEL	200	FSL	(+/-)7968mc	fd/(+/-)528bopd/(+/-)4567bwpd
SHIRE 22-15 FED COM 804H	SHIRE 22 CTB 2		22-25S-31E	1760	FEL	200	FSL	(+/-)7968mc	fd/(+/-)528bopd/(+/-)4567bwpd

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

				Completion		First
		1	TD Reached	Commencem	Initial Flow	Production
Well Name	API	Spud Date	Date	ent Date	back Date	Date
SHIRE 22-15 FED COM 822H		11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
SHIRE 22-15 FED COM 832H		11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
SHIRE 22-15 FED COM 803H		11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
SHIRE 22-15 FED COM 823H		11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024
SHIRE 22-15 FED COM 833H		11/23/2023	12/23/2023		4/21/2024	
SHIRE 22-15 FED COM 804H		11/23/2023	12/23/2023	4/21/2024	4/21/2024	4/21/2024

*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 Anticipated Volume of Natural Natural Gas Rate MCF/D Gas for the First Year MCF X. Natural Gas Gathering System (NGGS): ULSTR of Tie-in Operator System **Anticipated Gathering** Available Maximum Daily Capacity Start Date 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 \square does \square 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:

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 ☐ 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. \square 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: power generation on lease; (a) (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.

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

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



VI. Separation Equipment

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



VII. Operational Practices

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

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



VIII. Best Management Practices during Maintenance

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

SHIRE 22-15 FED COM 832H

1. Geologic Formations

TVD of target	12644	Pilot hole depth	N/A
MD at TD:	23039	Deepest expected fresh water	

Basin

Dasin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1160		
Salt	1460		
Base of Salt	4330		
Delaware	4330		
Cherry Canyon	5295		
Brushy Canyon	6650		
1st Bone Spring Lime	8250		
Bone Spring 1st	9330		
Bone Spring 2nd	9950		
3rd Bone Spring Lime	10440		
Bone Spring 3rd	11215		
Wolfcamp	11670		

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

2. Casing Program (Primary Design)

	9	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	1185	0	1185
9 7/8	8 5/8	32	P110	TLW	0	11670	0	11670
7 7/8	5 1/2	17	P110	ВТС	0	23039	0	12644

[•] 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.	Yld (ft3/sack)	Slurry Description
Surface	896	Surf	13.2	1.44	Lead: Class C Cement + additives
Y . 1	498	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	498	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	465	4000' above	13.2	1.44	Tail: Class H / C + additives
Production	117	10182	9	3.27	Lead: Class H /C + additives
Troduction	1437	12182	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	Ty	ype	√	Tested to:								
			Anı	nular	X	50% of rated working pressure								
Int 1	13-58"	5M	Blind	d Ram	X									
IIIL I	15-38	JIVI	Pipe	Ram		5M								
			Doub	le Ram	X	3101								
			Other*]								
	13-5/8"	10M	Annular (5M)		X	100% of rated working pressure								
Don't sellen			Blind Ram		X									
Production			Pipe Ram			101/								
												Doub	le Ram	X
			Other*											
			Annul	ar (5M)										
			Blind	d Ram										
			Pipe Ram			1								
			Double Ram]								
			Other*			1								
N A variance is requested for	the use of a	diverter or	the surface	casing. See	attached for s	schematic.								
Y A variance is requested to 1	A variance is requested to run a 5 M annular on a 10M system													

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

<u> </u>	6								
Logging, C	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 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
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	6903
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

SHIRE 22-15 FED COM 832H

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.

	Other, describe
X	Directional Plan
Attachme	ents



APD ID: 10400081814

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

Drilling Plan Data Report 08/16/2023

Submission Date: 11/18/2021

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SHIRE 22-15 FED COM Well Number: 832H

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			Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
11962305	UNKNOWN	3339	0	0	ALLUVIUM, OTHER : Surface	NONE	N
11962306	RUSTLER	2179	1160	1160	SANDSTONE	NONE	N
11962310	TOP SALT	1879	1460	1460	SALT	NONE	N
11962308	BASE OF SALT	-991	4330	4330	SALT	NONE	N
11962309	LAMAR	-991	4330	4330	SANDSTONE	NATURAL GAS, OIL	N
11962314	BELL CANYON	-991	4330	4330	SANDSTONE	NATURAL GAS, OIL	N
11962315	CHERRY CANYON	-1956	5295	5295	SANDSTONE	NATURAL GAS, OIL	N
11962316	BRUSHY CANYON	-3311	6650	6650	SANDSTONE	NATURAL GAS, OIL	N
11962317	BONE SPRING LIME	-4911	8250	8250	LIMESTONE	NATURAL GAS, OIL	N
11962307	BONE SPRING	-5991	9330	9330	SANDSTONE	NATURAL GAS, OIL	N
11962304	BONE SPRING 2ND	-6611	9950	9950	SANDSTONE	NATURAL GAS, OIL	N
11962318	BONE SPRING LIME	-7101	10440	10440	LIMESTONE	NATURAL GAS, OIL	N
11962312	BONE SPRING 3RD	-7876	11215	11215	SANDSTONE	NATURAL GAS	N
11962311	WOLFCAMP	-8331	11670	11670	SANDSTONE	NATURAL GAS, OIL	Y
11962313	STRAWN	-11081	14420	14420	LIMESTONE	NATURAL GAS, OIL	N

Section 2 - Blowout Prevention



Commitment Runs Deep



Design Plan
Operation and Maintenance Plan
Closure Plan

SENM - Closed Loop Systems June 2010

I. Design Plan

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

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

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

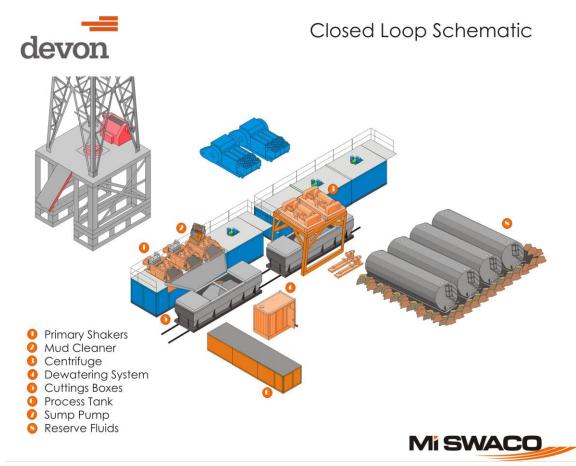
Prior to installing a closed-loop system on site, the topsoil, if present, will be stripped and stockpiled for use as the final cover or fill at the time of closure.

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

II. Operations and Maintenance Plan

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

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



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

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

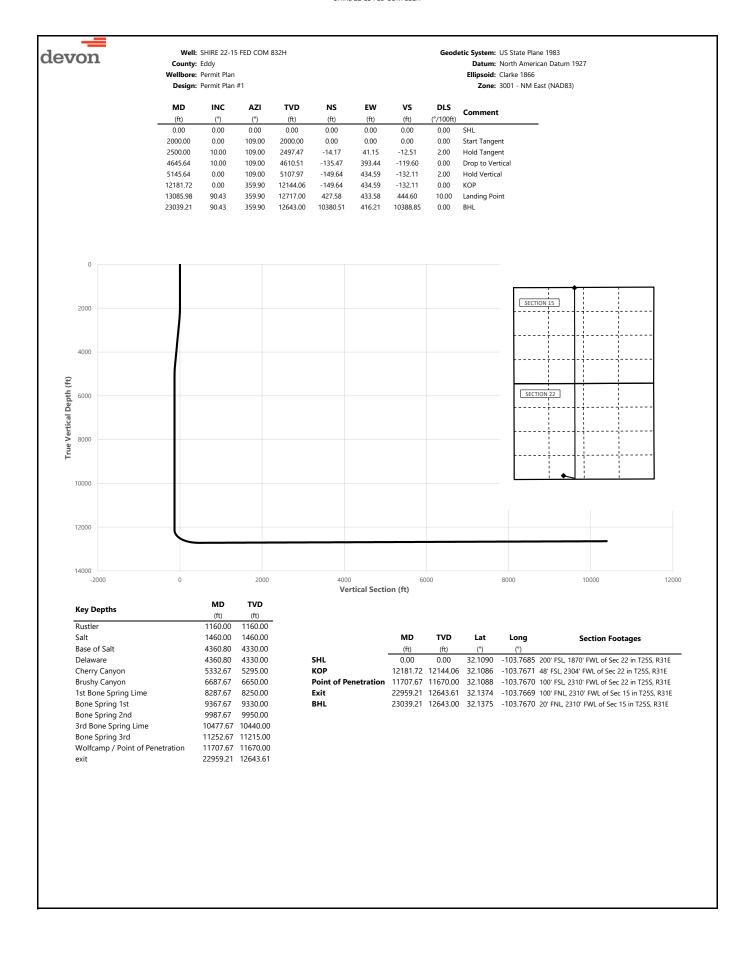
dope, or regulated chemicals are removed from soil and sent to landfills approved for these products.

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.





 Well:
 SHIRE 22-15 FED COM 832H
 Geodetic System:
 US State Plane 1983

 County:
 Eddy
 Datum:
 North American Datum 1927

Wellbore: Permit Plan
Design: Permit Plan #1

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

	Design:	Permit Plan	#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	6
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	109.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	109.00	200.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	109.00 109.00	300.00 400.00	0.00	0.00	0.00 0.00	0.00	
500.00	0.00	109.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	109.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	109.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	109.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	109.00	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	109.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	109.00	1100.00	0.00	0.00	0.00	0.00	Dustles
1160.00 1200.00	0.00	109.00 109.00	1160.00 1200.00	0.00	0.00	0.00 0.00	0.00	Rustler
1300.00	0.00	109.00	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	109.00	1400.00	0.00	0.00	0.00	0.00	
1460.00	0.00	109.00	1460.00	0.00	0.00	0.00	0.00	Salt
1500.00	0.00	109.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	109.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	109.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	109.00	1800.00	0.00	0.00	0.00	0.00	
1900.00 2000.00	0.00	109.00 109.00	1900.00 2000.00	0.00	0.00	0.00 0.00	0.00	Start Tangent
2100.00	2.00	109.00	2099.98	-0.57	1.65	-0.50	2.00	Start rangeme
2200.00	4.00	109.00	2199.84	-2.27	6.60	-2.01	2.00	
2300.00	6.00	109.00	2299.45	-5.11	14.84	-4.51	2.00	
2400.00	8.00	109.00	2398.70	-9.08	26.36	-8.01	2.00	
2500.00	10.00	109.00	2497.47	-14.17	41.15	-12.51	2.00	Hold Tangent
2600.00	10.00	109.00	2595.95	-19.82	57.57	-17.50	0.00	
2700.00	10.00	109.00	2694.43	-25.48	73.99	-22.49	0.00	
2800.00 2900.00	10.00 10.00	109.00 109.00	2792.91 2891.39	-31.13 -36.78	90.41 106.83	-27.48 -32.47	0.00	
3000.00	10.00	109.00	2989.87	-42.44	123.25	-32.47	0.00	
3100.00	10.00	109.00	3088.35	-48.09	139.66	-42.46	0.00	
3200.00	10.00	109.00	3186.83	-53.74	156.08	-47.45	0.00	
3300.00	10.00	109.00	3285.31	-59.40	172.50	-52.44	0.00	
3400.00	10.00	109.00	3383.79	-65.05	188.92	-57.43	0.00	
3500.00	10.00	109.00	3482.27	-70.70	205.34	-62.42	0.00	
3600.00	10.00	109.00	3580.75	-76.36	221.76	-67.41	0.00	
3700.00 3800.00	10.00 10.00	109.00 109.00	3679.23 3777.72	-82.01 -87.66	238.18 254.60	-72.40 -77.39	0.00	
3900.00	10.00	109.00	3876.20	-93.32	271.01	-82.38	0.00	
4000.00	10.00	109.00	3974.68	-98.97	287.43	-87.38	0.00	
4100.00	10.00	109.00	4073.16	-104.62	303.85	-92.37	0.00	
4200.00	10.00	109.00	4171.64	-110.28	320.27	-97.36	0.00	
4300.00	10.00	109.00	4270.12	-115.93	336.69	-102.35	0.00	
4360.80	10.00	109.00	4330.00	-119.37	346.67	-105.38	0.00	Base of Salt, Delaware
4400.00	10.00	109.00	4368.60	-121.58	353.11	-107.34 112.22	0.00	
4500.00 4600.00	10.00 10.00	109.00 109.00	4467.08 4565.56	-127.24 -132.89	369.53 385.95	-112.33 -117.32	0.00	
4645.64	10.00	109.00	4610.51	-135.47	393.44	-117.52	0.00	Drop to Vertical
4700.00	8.91	109.00	4664.13	-138.38	401.88	-122.17	2.00	•
4800.00	6.91	109.00	4763.17	-142.86	414.90	-126.12	2.00	
4900.00	4.91	109.00	4862.63	-146.21	424.64	-129.08	2.00	
5000.00	2.91	109.00	4962.40	-148.44	431.09	-131.05	2.00	
5100.00	0.91	109.00	5062.34	-149.52	434.25	-132.01	2.00	Hold Vertical
5145.64 5200.00	0.00	109.00 359.90	5107.97 5162.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	2.00 0.00	Hold Vertical
5300.00	0.00	359.90	5262.33	-149.64	434.59	-132.11	0.00	
5332.67	0.00	359.90	5295.00	-149.64	434.59	-132.11	0.00	Cherry Canyon
5400.00	0.00	359.90	5362.33	-149.64	434.59	-132.11	0.00	
5500.00	0.00	359.90	5462.33	-149.64	434.59	-132.11	0.00	
5600.00	0.00	359.90	5562.33	-149.64	434.59	-132.11	0.00	
5700.00	0.00	359.90	5662.33	-149.64	434.59	-132.11	0.00	
5800.00	0.00	359.90	5762.33	-149.64	434.59	-132.11	0.00	
5900.00 6000.00	0.00	359.90 359.90	5862.33 5962.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	0.00	
6100.00	0.00	359.90	6062.33	-149.64 -149.64	434.59	-132.11	0.00	
6200.00	0.00	359.90	6162.33	-149.64	434.59	-132.11	0.00	
6300.00	0.00	359.90	6262.33	-149.64	434.59	-132.11	0.00	



Well: SHIRE 22-15 FED COM 832H

County: Eddy Wellbore: Permit Plan

Design: Permit Plan #1 Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design:	: Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6400.00	0.00	359.90	6362.33	-149.64	434.59	-132.11	0.00	
6500.00	0.00	359.90	6462.33	-149.64	434.59	-132.11	0.00	
6600.00	0.00	359.90	6562.33	-149.64	434.59	-132.11	0.00	
6687.67	0.00	359.90	6650.00	-149.64	434.59	-132.11	0.00	Brushy Canyon
6700.00	0.00	359.90	6662.33	-149.64	434.59	-132.11	0.00	
6800.00 6900.00	0.00	359.90 359.90	6762.33	-149.64 -149.64	434.59	-132.11	0.00	
7000.00	0.00	359.90	6862.33 6962.33	-149.64	434.59 434.59	-132.11 -132.11	0.00	
7100.00	0.00	359.90	7062.33	-149.64	434.59	-132.11	0.00	
7200.00	0.00	359.90	7162.33	-149.64	434.59	-132.11	0.00	
7300.00	0.00	359.90	7262.33	-149.64	434.59	-132.11	0.00	
7400.00	0.00	359.90	7362.33	-149.64	434.59	-132.11	0.00	
7500.00	0.00	359.90	7462.33	-149.64	434.59	-132.11	0.00	
7600.00	0.00	359.90	7562.33	-149.64	434.59	-132.11	0.00	
7700.00	0.00	359.90	7662.33	-149.64	434.59	-132.11	0.00	
7800.00	0.00	359.90	7762.33	-149.64	434.59	-132.11	0.00	
7900.00 8000.00	0.00	359.90 359.90	7862.33 7962.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	0.00	
8100.00	0.00	359.90	8062.33	-149.64	434.59	-132.11	0.00	
8200.00	0.00	359.90	8162.33	-149.64	434.59	-132.11	0.00	
8287.67	0.00	359.90	8250.00	-149.64	434.59	-132.11	0.00	1st Bone Spring Lime
8300.00	0.00	359.90	8262.33	-149.64	434.59	-132.11	0.00	-
8400.00	0.00	359.90	8362.33	-149.64	434.59	-132.11	0.00	
8500.00	0.00	359.90	8462.33	-149.64	434.59	-132.11	0.00	
8600.00	0.00	359.90	8562.33	-149.64	434.59	-132.11	0.00	
8700.00	0.00	359.90	8662.33	-149.64	434.59	-132.11	0.00	
8800.00 8900.00	0.00	359.90 359.90	8762.33 8862.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	0.00	
9000.00	0.00	359.90	8962.33	-149.64	434.59	-132.11	0.00	
9100.00	0.00	359.90	9062.33	-149.64	434.59	-132.11	0.00	
9200.00	0.00	359.90	9162.33	-149.64	434.59	-132.11	0.00	
9300.00	0.00	359.90	9262.33	-149.64	434.59	-132.11	0.00	
9367.67	0.00	359.90	9330.00	-149.64	434.59	-132.11	0.00	Bone Spring 1st
9400.00	0.00	359.90	9362.33	-149.64	434.59	-132.11	0.00	
9500.00	0.00	359.90	9462.33	-149.64	434.59	-132.11	0.00	
9600.00	0.00	359.90	9562.33	-149.64	434.59	-132.11	0.00	
9700.00	0.00	359.90 359.90	9662.33	-149.64 -149.64	434.59	-132.11 -132.11	0.00	
9800.00 9900.00	0.00	359.90	9762.33 9862.33	-149.64	434.59 434.59	-132.11	0.00	
9987.67	0.00	359.90	9950.00	-149.64	434.59	-132.11	0.00	Bone Spring 2nd
10000.00	0.00	359.90	9962.33	-149.64	434.59	-132.11	0.00	
10100.00	0.00	359.90	10062.33	-149.64	434.59	-132.11	0.00	
10200.00	0.00	359.90	10162.33	-149.64	434.59	-132.11	0.00	
10300.00	0.00	359.90	10262.33	-149.64	434.59	-132.11	0.00	
10400.00	0.00	359.90	10362.33	-149.64	434.59	-132.11	0.00	
10477.67	0.00	359.90	10440.00	-149.64	434.59	-132.11	0.00	3rd Bone Spring Lime
10500.00 10600.00	0.00	359.90 359.90	10462.33 10562.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	0.00	
10700.00	0.00	359.90	10662.33	-149.64	434.59	-132.11	0.00	
10800.00	0.00	359.90	10762.33	-149.64	434.59	-132.11	0.00	
10900.00	0.00	359.90	10862.33	-149.64	434.59	-132.11	0.00	
11000.00	0.00	359.90	10962.33	-149.64	434.59	-132.11	0.00	
11100.00	0.00	359.90	11062.33	-149.64	434.59	-132.11	0.00	
11200.00	0.00	359.90	11162.33	-149.64	434.59	-132.11	0.00	
11252.67	0.00	359.90	11215.00	-149.64	434.59	-132.11	0.00	Bone Spring 3rd
11300.00	0.00	359.90	11262.33	-149.64	434.59	-132.11	0.00	
11400.00 11500.00	0.00	359.90 359.90	11362.33	-149.64 -149.64	434.59 434.59	-132.11 -132.11	0.00	
11600.00	0.00	359.90	11462.33 11562.33	-149.64 -149.64	434.59 434.59	-132.11	0.00	
11700.00	0.00	359.90	11662.33	-149.64	434.59	-132.11	0.00	
11700.67	0.00	359.90	11670.00	-149.64	434.59	-132.11	0.00	Wolfcamp / Point of Penetration
11800.00	0.00	359.90	11762.33	-149.64	434.59	-132.11	0.00	•
11900.00	0.00	359.90	11862.33	-149.64	434.59	-132.11	0.00	
12000.00	0.00	359.90	11962.33	-149.64	434.59	-132.11	0.00	
12100.00	0.00	359.90	12062.33	-149.64	434.59	-132.11	0.00	
12181.72	0.00	359.90	12144.06	-149.64	434.59	-132.11	0.00	KOP
12200.00	1.83	359.90	12162.33	-149.35	434.59	-131.82	10.00	
12300.00	11.83	359.90	12261.50	-137.48 109.56	434.57	-119.96	10.00	
12400.00 12500.00	21.83 31.83	359.90 359.90	12357.09 12446.22	-108.56 -63.49	434.52 434.44	-91.07 -46.03	10.00 10.00	



Well: SHIRE 22-15 FED COM 832H

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

Geodetic System: US State Plane 1983

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

Zone: 3001 - NM East (NAD83)

	Design: Permit Plan #1					Zone: 3001 - NM East (NAD83)							
MD	INC	AZI	TVD	NS	EW	vs	DLS						
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment					
2600.00	41.83	359.90	12526.16	-3.63	434.33	13.78	10.00						
2700.00	51.83	359.90	12594.49	69.21	434.21	86.55	10.00						
2800.00	61.83	359.90	12649.14	152.81	434.06	170.08	10.00						
2900.00	71.83	359.90	12688.44	244.62	433.90	261.81	10.00						
3000.00	81.83	359.90	12711.20	341.87	433.73	358.97	10.00						
3085.98	90.43	359.90	12717.00	427.58	433.58	444.60	10.00	Landing Point					
3100.00	90.43	359.90	12716.90	441.59	433.56	458.61	0.00						
3200.00	90.43	359.90	12716.15	541.59	433.38	558.52	0.00						
3300.00	90.43	359.90	12715.41	641.59	433.21	658.43	0.00						
3400.00	90.43	359.90	12714.67	741.58	433.03	758.34	0.00						
3500.00	90.43	359.90	12713.92	841.58	432.86	858.25	0.00						
3600.00	90.43	359.90	12713.18	941.58	432.68	958.16	0.00						
3700.00	90.43	359.90	12712.44	1041.57	432.51	1058.07	0.00						
3800.00	90.43	359.90	12711.69	1141.57	432.33	1157.98	0.00						
3900.00	90.43	359.90	12710.95	1241.57	432.16	1257.89	0.00						
4000.00	90.43	359.90	12710.21	1341.56	431.98	1357.79	0.00						
4100.00	90.43	359.90	12709.46	1441.56	431.81	1457.70	0.00						
4200.00	90.43	359.90	12708.72	1541.56	431.63	1557.61	0.00						
4300.00 4400.00	90.43	359.90	12707.98	1641.56 1741.55	431.46 431.28	1657.52 1757.43	0.00						
4400.00 4500.00	90.43 90.43	359.90 359.90	12707.23 12706.49	1741.55 1841.55	431.28 431.11	1757.43 1857.34	0.00						
4600.00	90.43	359.90	12705.49	1941.55	430.93	1957.25	0.00						
4700.00	90.43	359.90	12705.75	2041.54	430.93	2057.16	0.00						
4800.00	90.43	359.90	12703.00	2141.54	430.76	2157.10	0.00						
4900.00	90.43	359.90	12704.20	2241.54	430.41	2256.98	0.00						
5000.00	90.43	359.90	12702.77	2341.54	430.23	2356.89	0.00						
5100.00	90.43	359.90	12702.03	2441.53	430.06	2456.80	0.00						
5200.00	90.43	359.90	12701.29	2541.53	429.88	2556.71	0.00						
5300.00	90.43	359.90	12700.54	2641.53	429.71	2656.62	0.00						
5400.00	90.43	359.90	12699.80	2741.52	429.53	2756.53	0.00						
5500.00	90.43	359.90	12699.06	2841.52	429.36	2856.44	0.00						
5600.00	90.43	359.90	12698.31	2941.52	429.18	2956.35	0.00						
5700.00	90.43	359.90	12697.57	3041.52	429.01	3056.26	0.00						
5800.00	90.43	359.90	12696.83	3141.51	428.83	3156.17	0.00						
5900.00	90.43	359.90	12696.08	3241.51	428.66	3256.08	0.00						
6000.00	90.43	359.90	12695.34	3341.51	428.48	3355.99	0.00						
6100.00	90.43	359.90	12694.60	3441.50	428.31	3455.90	0.00						
6200.00	90.43	359.90	12693.85	3541.50	428.13	3555.81	0.00						
6300.00	90.43	359.90	12693.11	3641.50	427.96	3655.72	0.00						
6400.00	90.43	359.90	12692.37	3741.49	427.78	3755.63	0.00						
6500.00	90.43	359.90	12691.62	3841.49	427.61	3855.54	0.00						
6600.00	90.43	359.90	12690.88	3941.49	427.43	3955.45	0.00						
6700.00	90.43	359.90	12690.14	4041.49	427.26	4055.36	0.00						
6800.00	90.43	359.90	12689.39	4141.48	427.08	4155.27	0.00						
6900.00	90.43	359.90	12688.65	4241.48	426.91	4255.18	0.00						
7000.00	90.43	359.90	12687.91 12687.16	4341.48	426.73	4355.09	0.00						
7100.00	90.43	359.90		4441.47	426.56	4455.00 4554.91	0.00						
7200.00	90.43	359.90	12686.42	4541.47 4641.47	426.38 426.21		0.00						
7300.00 7400.00	90.43 90.43	359.90 359.90	12685.68 12684.93	4641.47 4741.47	426.21 426.03	4654.82 4754.73	0.00						
7500.00	90.43	359.90	12684.19	4841.46	425.86	4854.64	0.00						
7600.00	90.43	359.90	12683.45	4941.46	425.68	4954.55	0.00						
7700.00	90.43	359.90	12682.70	5041.46	425.51	5054.46	0.00						
7800.00	90.43	359.90	12681.96	5141.45	425.33	5154.37	0.00						
7900.00	90.43	359.90	12681.22	5241.45	425.16	5254.28	0.00						
8000.00	90.43	359.90	12680.47	5341.45	424.98	5354.19	0.00						
8100.00	90.43	359.90	12679.73	5441.45	424.81	5454.10	0.00						
8200.00	90.43	359.90	12678.99	5541.44	424.63	5554.01	0.00						
8300.00	90.43	359.90	12678.24	5641.44	424.46	5653.92	0.00						
8400.00	90.43	359.90	12677.50	5741.44	424.28	5753.83	0.00						
8500.00	90.43	359.90	12676.76	5841.43	424.11	5853.74	0.00						
8600.00	90.43	359.90	12676.01	5941.43	423.93	5953.64	0.00						
8700.00	90.43	359.90	12675.27	6041.43	423.76	6053.55	0.00						
00.0088	90.43	359.90	12674.52	6141.42	423.58	6153.46	0.00						
8900.00	90.43	359.90	12673.78	6241.42	423.40	6253.37	0.00						
	90.43	359.90	12673.04	6341.42	423.23	6353.28	0.00						
9000.00		359.90	12672.29	6441.42	423.05	6453.19	0.00						
9100.00	90.43												
9100.00 9200.00	90.43	359.90	12671.55	6541.41	422.88	6553.10	0.00						
9100.00				6541.41 6641.41 6741.41	422.88 422.70 422.53	6553.10 6653.01 6752.92	0.00 0.00 0.00						



Well: SHIRE 22-15 FED COM 832H

County: Eddy
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 ΑZI TVD NS EW vs DLS Comment (°/100ft) (ft) (ft) (ft) (ft) (ft) (°) (°) 19500.00 90.43 359.90 12669.32 6841.40 422.35 6852.83 0.00 19600.00 90.43 359.90 12668.58 6941.40 422.18 6952.74 0.00 19700.00 90.43 359.90 12667.83 7041.40 422.00 7052.65 0.00 19800.00 90.43 359.90 12667.09 7141.40 421.83 7152.56 0.00 19900.00 90.43 359.90 12666.35 7241.39 421.65 7252.47 0.00 20000.00 90.43 359.90 12665.60 7341.39 421.48 7352.38 0.00 20100.00 90.43 359.90 12664.86 7441.39 421.30 7452.29 0.00 7552.20 20200.00 90.43 359.90 12664.12 7541.38 421.13 0.00 20300.00 90.43 359.90 12663.37 7641.38 420.95 7652.11 0.00 20400.00 90.43 359.90 12662.63 7741.38 420.78 7752.02 0.00 20500.00 90.43 359.90 12661.89 7841.38 420.60 7851.93 0.00 20600.00 90.43 359.90 12661.14 7941.37 420.43 7951.84 0.00 20700.00 90.43 359.90 12660.40 8041.37 420.25 8051.75 0.00 20800.00 90.43 359.90 12659.66 8141.37 420.08 8151.66 0.00 419.90 8251.57 20900.00 90.43 359.90 12658.91 8241.36 0.00 21000.00 90.43 359.90 12658.17 8341.36 419.73 8351.48 0.00 21100.00 90.43 359.90 12657.43 8441.36 419.55 8451.39 0.00 21200.00 90.43 359.90 12656.68 8541.35 419.38 8551.30 0.00 21300.00 90.43 359.90 12655.94 8641.35 419.20 8651.21 0.00 21400.00 90.43 359.90 12655.20 8741.35 419.03 8751.12 0.00 21500.00 90.43 359.90 12654.45 8841.35 418.85 8851.03 0.00 21600.00 8941.34 8950.94 90.43 359.90 12653.71 418.68 0.00 21700.00 9050.85 90.43 359 90 12652 97 904134 418 50 0.00 21800.00 90.43 359.90 12652.22 9141.34 418.33 9150.76 0.00 21900.00 9241.33 9250.67 90.43 359.90 12651.48 418.15 0.00 22000.00 90.43 359.90 12650.74 9341.33 417.98 9350.58 0.00 22100.00 90.43 359.90 12649.99 9441 33 417.80 9450.49 0.00 22200.00 90.43 359.90 12649.25 9541.33 417.63 9550.40 0.00 22300.00 90.43 359.90 12648.51 9641.32 417.45 9650.31 0.00 22400.00 90.43 359.90 12647.76 9741.32 417.28 9750.22 0.00 22500.00 90.43 359.90 12647.02 9841.32 417.10 9850.13 0.00 22600.00 90.43 359.90 12646.28 9941.31 416.93 9950.04 0.00 22700.00 90.43 12645.53 10041.31 416.75 10049.95 0.00 359.90 10149.86 22800.00 90.43 359.90 12644.79 10141.31 416.58 0.00 22900.00 90.43 359.90 12644.05 10241.31 416.40 10249.77 0.00 22959.21 90.43 359.90 12643.61 10300.51 416.30 10308.92 0.00 exit 416.23 23000.00 90.43 359.90 12643.30 10341.30 10349.68 0.00

23039.21

90.43

359.90

12643.00

10380.51

416.21

10388.85

0.00 BHL

 Well:
 SHIRE 22-15 FED COM 832H
 Geodetic System:
 US State Plane 1983

 County:
 Eddy
 Datum:
 North American Datum 1927

 Wellbore:
 Permit Plan
 Ellipsoid:
 Clarke 1866

 Design:
 Permit Plan #1
 Zone:
 3001 - NM East (NAD83)

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

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.

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.

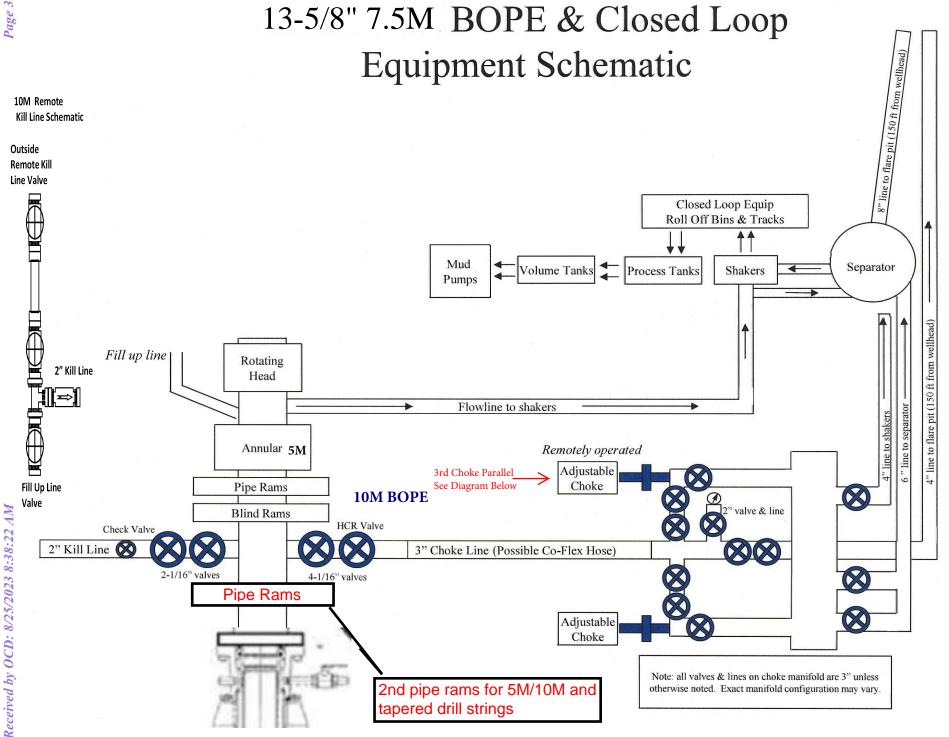
- Wellhead will be installed by wellhead representatives.
- If the welding is performed by a third party, the wellhead representative will monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- Wellhead representative will install the test plug for the initial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

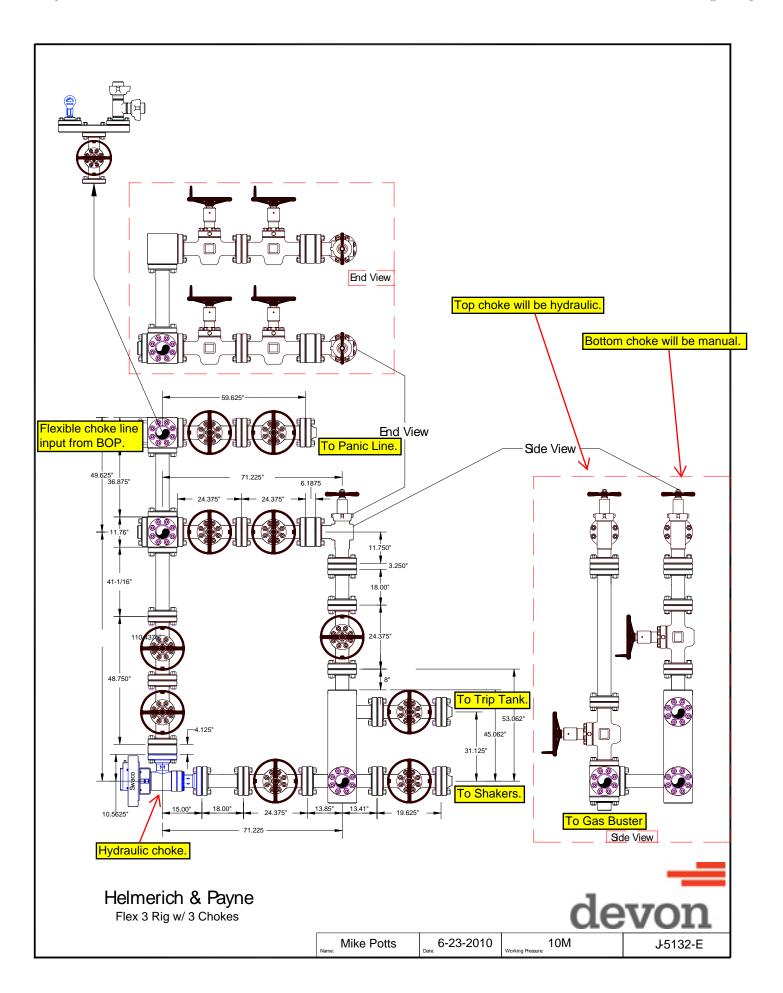
After running the surface casing, a 13-5/8" BOP/BOPE system with a minimum rating of 5M will be installed on the wellhead system and will undergo a 250 psi low pressure test followed by a 5,000 psi high pressure test. The 5,000 psi high and 250 psi low test will cover testing requirements a maximum of 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.

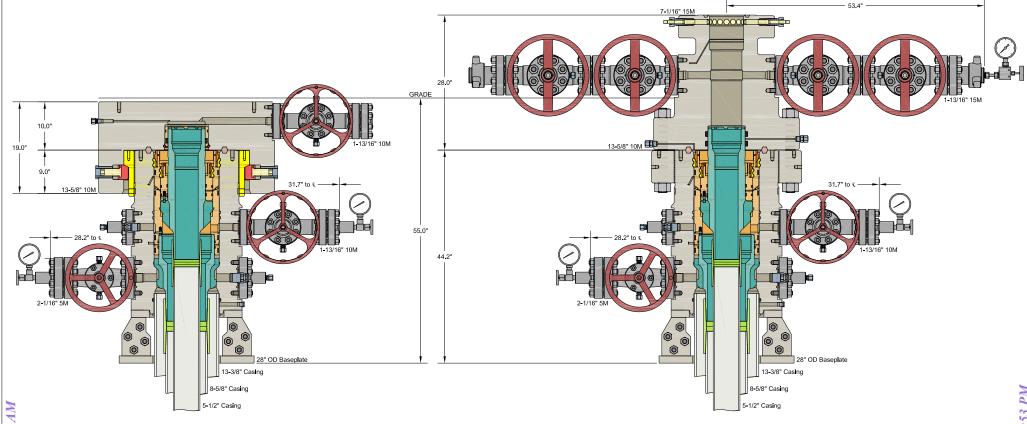
After running the intermediate casing with a mandrel hanger, the 13-5/8" BOP/BOPE system with a minimum rating of 10M will be installed and tested, with 5M annular being tested to 100% of rated working pressure.

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.







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CACTUS WELLHEAD LLC

13-3/8" x 8-5/8" x 5-1/2" 5M MBU-3T Wellhead System With 8-5/8" & 5-1/2" Pin Down Rotating Mandrel Hangers And 13-5/8" 10M x 7-1/16" 15M CTH-P-DBLHPS Tubing Head

DEVON ENERGY CORPORATIO

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DRAWN	DLE	10MAY18
APPRV		000

DRAWING NO.

ODE0002309

Operator Name: DEVON ENERGY PRODUCTION COMPANY LP

Well Name: SHIRE 22-15 FED COM Well Number: 832H

Pressure Rating (PSI): 10M Rating Depth: 12644

Equipment: BOP/BOPE will be installed per Onshore Oil & Gas Order #2 requirements prior to drilling below 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.

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

Choke Diagram Attachment:

Annular_Variance___Preventer_Summary_20211118092704.pdf

MB_Verb_10M_20211118092704.pdf

10M_BOPE_CHK_DR_CLS_RKL_20211118092704.pdf

MB_Wellhd_10M_13.375_8.625_5.5_20211118092704.PDF

BOP Diagram Attachment:

10M_BOPE_CHK_DR_CLS_RKL_20211118092711.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1185	0	1185	3341	2156	1185	H-40	-	OTHER - STC	1.12 5	1	BUOY	1.6	BUOY	1.6
2	INTERMED IATE	9.87 5	8.625	NEW	API	N	0	11670	0	11670	-6965	-8329	11670	P- 110	-	OTHER - TLW	1.12 5	1	BUOY	1.6	BUOY	1.6
3	PRODUCTI ON	7.87 5	5.5	NEW	API	N	0	23039	0	12643	-6965	-9302	23039	P- 110		OTHER - BTC	1.12 5	1	BUOY	1.6	BUOY	1.6

Casing Attachments

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

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

LEASE NO.: NMNM0016131

LOCATION: | Section 22, T.25 S., R.31 E., NMPM

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: | Shire 22-15 Fed Com 822H

SURFACE HOLE FOOTAGE: 200'/S & 1840'/W **BOTTOM HOLE FOOTAGE** 20'/N & 1660'/W

ATS/API ID: | **ATS-22-357**

Sundry ID: | N/A

WELL NAME & NO.: | Shire 22-15 Fed Com 823H

SURFACE HOLE FOOTAGE: 200'/S & 1820'/E **BOTTOM HOLE FOOTAGE** 20'/N & 2310'/E

ATS/API ID: | **ATS-22-381**

Sundry ID: N/A

WELL NAME & NO.: | Shire 22-15 Fed Com 824H

SURFACE HOLE FOOTAGE: 200'/S & 860'/E **BOTTOM HOLE FOOTAGE** 20'/N & 990'/E **ATS/API ID: ATS-22-382**

Sundry ID: N/A

WELL NAME & NO.: | Shire 22-15 Fed Com 832H

SURFACE HOLE FOOTAGE: 200'/S & 1870'/W **BOTTOM HOLE FOOTAGE** 20'/N & 2310'/W **ATS/API ID: ATS-22-355**

Sundry ID: N/A

WELL NAME & NO.: Shire 22-15 Fed Com 833H

SURFACE HOLE FOOTAGE: 200'/S & 1790'/E **BOTTOM HOLE FOOTAGE** 20'/N & 1650'/E **ATS/API ID: ATS-22-383**

Sundry ID: N/A

WELL NAME & NO.: | Shire 22-15 Fed Com 834H

SURFACE HOLE FOOTAGE: 200'/S & 830'/E BOTTOM HOLE FOOTAGE 20'/N & 330'/E ATS/API ID: ATS-22-384

Sundry ID: N/A

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 930 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of 8 hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

- 2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 - ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

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

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

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

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.

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 8-5/8 inch intermediate

casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 10,000 (10M) psi. Variance is approved to use a 5000 (5M) Annular which shall be tested to 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- 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
 - ✓ Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

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

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

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

D. WASTE MATERIAL AND FLUIDS

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

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

LVO 8/25/2022



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

Hydrogen Sulfide (H₂S) Contingency Plan

For

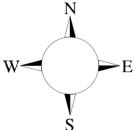
Shire 22-15 Fed Com 832H

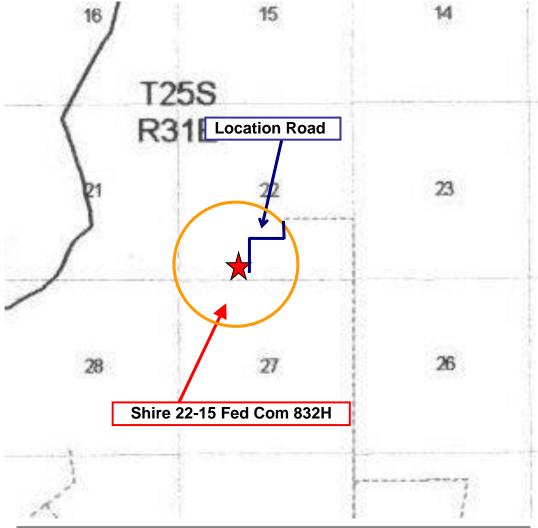
Sec-22 T-25S R-31E 200 FSL & 1870' FWL LAT. = 32.1091010 N (NAD83) LONG = 103.7684362 W

Eddy County NM

Shire 22-15 Fed Com 832H

This is an open drilling site. H₂S monitoring equipment and emergency response equipment will be used within 500' of zones known to contain H₂S, including warning signs, wind indicators and H₂S monitor.





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

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

J		uu. U U Z			
Common	Chemical	Specific	Threshold	Hazardous Limit	Lethal
Name	Formula	Gravity	Limit	nazaruous Liiiit	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 for all personnel in 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
- Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- D. Auxiliary equipment may include if applicable: annular preventer and rotating head.
- E. Mud/Gas Separator

2. Protective equipment for essential personnel:

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

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

3. 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

4. Visual warning systems:

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

5. Mud program:

The mud program has been designed to minimize the volume of H₂S circulated to surface. Proper mud weight, safe drilling practices and the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.

6. Metallurgy:

All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold lines, and valves shall be H₂S trim.

All elastomers used for packing and seals shall be H₂S trim.

7. Communication:

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

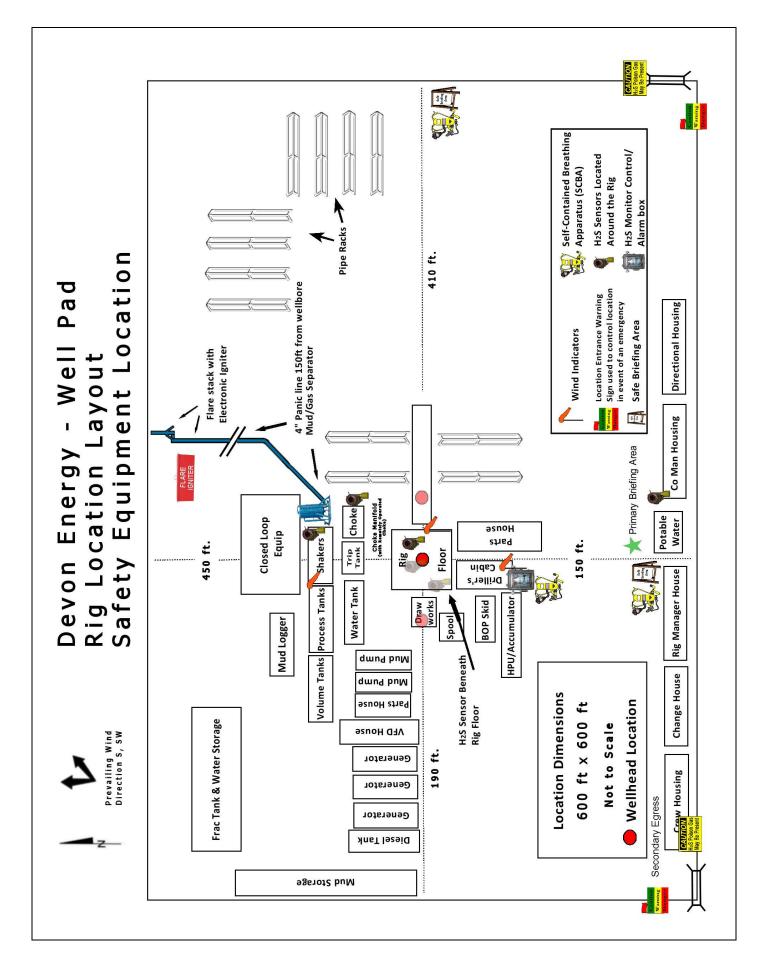
8. Well testing:

- a. Drill stem testing will be performed with a minimum number of personnel in the immediate vicinity, which are necessary to safety and adequately conduct the test. The drill stem testing will be conducted during daylight hours and formation fluids will not be flowed to the surface. All drill-stem-testing operations conducted in an H₂S environment will use the closed chamber method of testing.
- **b.** There will be no drill stem testing.

Employee/Company Contact Representative Representative Number Number Number	Jonathan I Jason Hild Rich Dowr Josh Harve Laura Wrig Robert Glo Lane Fran Rickey Po	epresentative Fisher (North) ebrand (South) ney ey	Drilling Manager Drilling Manager Drilling VP EHS Manger	Number 832-967-7912	
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Rich Downey	Rich Down Josh Harve Laura Wrig Robert Glo Lane Fran Rickey Po	ney ey ght	Drilling VP EHS Manger	405-552-6514	
Josh Harvey	Josh Harv Laura Wrig Robert Glo Lane Fran Rickey Po	ey ght	EHS Manger		
Laura Wright EHS Supervisor 405-552-5334 832-969-8145 Robert Glover EHS Professional 575-703-5712 <td>Laura Wrig Robert Glo Lane Fran Rickey Po</td> <td>ght</td> <td>EHS Manger FHS Supervisor</td> <td>405-228-2415</td> <td></td>	Laura Wrig Robert Glo Lane Fran Rickey Po	ght	EHS Manger FHS Supervisor	405-228-2415	
Robert Glover	Robert Glo Lane Fran Rickey Po		FHS Supervisor	405-228-2440	918-500-5536
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Agency Call List					
Lea County Communication Authority 397-9265 State Police 397-9265 Sheriff's Office 397-9208 LEPC (Local Emergency Planning Committee) 393-2870 NMOCD 393-6161 US Bureau of Land Management (Hobbs Office Closed) 393-0002 State Police 885-3137 City Police 885-3137 Sheriff's Office 887-7551 Ambulance 911 Fire Department 885-3125 LEPC (Local Emergency Planning Committee) 887-3798 US Bureau of Land Management (Carlsbad) (575)-706-1920 US Bureau of Land Management (Carlsbad) (575)-706-1920 US Bureau of Land Management (Carlsbad) (575)-706-1920 NM Emergency Response Commission (Santa Fe) (505) 476-9600 24 HR (505) 827-9126 National Emergency Response Center (800) 424-8802 National Pollution Control Center: Direct (703) 872-6000 For Oil Spills (800) 280-7118 Emergency Services Wild Well Control (281) 784-4700 Cudd Pressure Control (915) 699-0139 (915) 563-3356	Brock Vise				
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B. J. Services (575) 746-3569		B. J. Services			` '
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Give	Native Air – Emergency Helicopter – Hobbs	(575) 347-9836
GPS	For Air Ambulance - Eddy County Dispatch	(575)-616-7155
position:	For Air Ambulance - Lea County (LCCA)	(575)-397-9265
	Poison Control (24/7)	(800) 222-1222
	Oil & Gas Pipeline 24 Hour Service	(800) 364-4366
	NOAA – Website - www.nhc.noaa.gov	
	National Pollution Control Center	202-795-6958
	NPCC – Oil Spills	800-280-7118
	BNSF Railroad Resource Operations	800-832-5452
	NM OSHA – Santa Fe	505-222-9595
	NM OSHA (Reporting)	877-610-6742
		505-476-8700

Prepared in conjunction with Dave Small



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 257657

CONDITIONS

	,
Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	257657
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	8/30/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	8/30/2023
ward.rikala	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	8/30/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	8/30/2023
ward.rikala	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	8/30/2023
ward.rikala	If a bradenhead squeeze is used during the cementing of the intermediate casing, then NM OCD will require a CBL to verify the integrity of the cement behind the intermediate casing.	8/30/2023