

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

Sundry Print Reports
04/01/2025

Well Name: HAFLINGER 22-27 FED Well Location: T25S / R32E / SEC 22 / County or Parish/State: LEA /

COM NWNW / 32.122266 / -103.668322

Well Number: 121H Type of Well: OIL WELL Allottee or Tribe Name:

Lease Number: NMLC062300 Unit or CA Name: Unit or CA Number:

US Well Number: 3002552853 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2840404

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 03/06/2025 Time Sundry Submitted: 12:38

Date proposed operation will begin: 03/06/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests a SHL move, BHL move, and drill plan change for the subject well. Devon also requests break testing with stump and offline cementing variances. Please see revised C102, drill plan, directional plan, and variance attachments. Permitted SHL: UL D, 350 FNL, 980 FWL, Sec 22, T 25S, R 32E Proposed SHL: UL D, 200 FNL, 1150 FWL, Sec 22, T 25S, R 32E Permitted BHL: UL M, 20 FSL, 440 FWL, Sec 27, T 25S, R 32E Proposed BHL: UL M, 20 FSL, 550 FWL, Sec 27, T 25S, R 32E

NOI Attachments

Procedure Description

Haflinger_WP_1_Site_Map_2025_20250306123311.pdf

Offline_Cementing___Variance_Request_20250306121032.pdf

Haflinger_22_27_Fed_Com_121H_3_6_20250306120859.pdf

Haflinger_22_27_Fed_Com_121H_Directional_Plan_03_06_25_20250306120844.pdf

Break_Test_Variance_Offline_BOP_2_3_2025_20250306120801.pdf

5.5_20lb_P110HP_CDC_HTQ_20250306120743.pdf

8.625_32lb_P110_HP_TALON_RD_20250306120731.pdf

10.75_45.5lb_J55_BTC_20250306120719.pdf

eived by OCD: 4/7/2025 9:46:42 AM Well Name: HAFLINGER 22-27 FED

COM

Well Location: T25S / R32E / SEC 22 /

NM

County or Parish/State: LEA/

NWNW / 32.122266 / -103.668322

Well Number: 121H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMLC062300

Unit or CA Name:

Unit or CA Number:

US Well Number: 3002552853

Operator: DEVON ENERGY PRODUCTION COMPANY LP

WA022154936_HAFLINGER_22_27_FED_COM_121H_WL_R2_SIGNED_20250306120641.pdf

Conditions of Approval

Additional

22_25_32_D_Sundry_ID_2840404_Haflinger_22_27_Fed_Com_121H_20250324124536.pdf

Haflinger_22_27_Fed_Com_121H_Dr_COA_20250324124536.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: AMY BROWN Signed on: MAR 06, 2025 12:15 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name:

Street Address:

City: State:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234 BLM POC Email Address: cwalls@blm.gov

Disposition: Approved Disposition Date: 04/01/2025

Signature: Chris Walls

Page 2 of 2

Zip:

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 202

BUR	EAU OF LAND MANAGEMEN	5. Lease Serial No.			
Do not use this t	IOTICES AND REPORTS ON form for proposals to drill or Use Form 3160-3 (APD) for s		Name		
SUBMIT IN	TRIPLICATE - Other instructions on p	7. If Unit of CA/Agreement, 1	7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well Oil Well Gas W	Vell Other	8. Well Name and No.			
2. Name of Operator		9. API Well No.			
3a. Address	3b. Phone N	lo. (include area cod	(le) 10. Field and Pool or Explora	tory Area	
4. Location of Well (Footage, Sec., T., R	2.,M., or Survey Description)		11. Country or Parish, State		
12. CHE	CK THE APPROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, REPORT OR OTI	HER DATA	
TYPE OF SUBMISSION		TY	YPE OF ACTION		
Notice of Intent		eepen ydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity	
Subsequent Report		ew Construction	Recomplete	Other	
Subsequent Report	Change Plans	ug and Abandon	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	ug Back	Water Disposal		
completed. Final Abandonment No is ready for final inspection.)	tices must be filed only after all requirem			3160-4 must be filed once testing has been the operator has detennined that the site	
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Title			
		1100			
Signature		Date			
	THE SPACE FOR FE	DERAL OR S	TATE OFICE USE		
Approved by		Tial		Data	
	hed. Approval of this notice does not war equitable title to those rights in the subject duct operations thereon.			Date	
Title 18 U.S.C Section 1001 and Title 4	3 U.S.C Section 1212, make it a crime for	r any person knowin	gly and willfully to make to any do	epartment or agency of the United States	

any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: NWNW / 350 FNL / 980 FWL / TWSP: 25S / RANGE: 32E / SECTION: 22 / LAT: 32.122266 / LONG: -103.668322 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 100 FNL / 440 FWL / TWSP: 25S / RANGE: 32E / SECTION: 22 / LAT: 32.122951 / LONG: -103.670066 (TVD: 9858 feet, MD: 9959 feet)
PPP: SWNW / 1456 FNL / 444 FWL / TWSP: 25S / RANGE: 32E / SECTION: 27 / LAT: 32.1047055 / LONG: -103.6700538 (TVD: 10108 feet, MD: 16500 feet)
BHL: SWSW / 20 FSL / 440 FWL / TWSP: 25S / RANGE: 32E / SECTION: 27 / LAT: 32.094249 / LONG: -103.670046 (TVD: 10168 feet, MD: 20304 feet)

10 3/4		surface csg in a	14 3/4	inch hole.		<u>Design</u> l	-actors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	45.50		j 55	btc	16.55	4.71	0.7	950	9	1.17	8.89	43,22
"B"				btc				0				0
	w	/8.4#/g mud, 30min Sfc Csg Tes	t psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	950				43,22
omparison of	f Proposed	to Minimum Required Cem	ent Volumes									
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Di
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
14 3/4	0.5563	488	703	529	33	9.00	3056	5M				1.50
urst Frac Grad	ient(s) for Se	egment(s) A, B = , b All > 0	.70, OK.									
8 5/8		casing inside the	10 3/4	Caumlian	laint	Design I		1	D.O.	Int 1	- 0	\A/~!!
Segment	#/ft	Grade	m 440	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	32.00		p 110	uss talon htq	3.81	0.88	1.61	9,389	2	2.70	1.48	
"B"								0				0
	w	/8.4#/g mud, 30min Sfc Csg Tes					Totals:	9,389				300,4
				led to achieve a top of	0	ft from su		950				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Di
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-C
9 7/8	0.1261	625	1539	1192	29	10.50	3309	5M				0.44
•							sum of sx	Σ CuFt				Σ%exce
							Julii Ol JX	Z Cui t				
D V Tool(s): by stage % :	t yld > 1.20	#VALUE!	#VALUE!				625	1539				29
D V Tool(s): by stage % : Class 'H' tail cm	· 					Design Fa	625			Prod 1		29
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2		casing inside the	#VALUE!	Couplina	Joint	Design Far	625	1539	B@s	Prod 1 a-B	a-C	
D V Tool(s): by stage %: Class 'H' tail cm Tail cmt 5 1/2 Segment	#/ft		8 5/8	Coupling cdc-hta	Joint 3.15	Collapse	625 ctors Burst	1539	B@s	a-B	a-C 3.69	Weigl
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A"		casing inside the		Coupling cdc-htq	Joint 3.15		625	1539 Length 20,308	B@s 2			Weig l
D V Tool(s): by stage %: Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B"	#/ft	casing inside the	8 5/8			Collapse	625 ctors Burst	1539 Length 20,308 0		a-B		Weigl 406,16
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C"	#/ft	casing inside the	8 5/8	cdc-htq		Collapse	625 ctors Burst	1539 Length 20,308 0		a-B		Weigl 406,10 0
D V Tool(s): by stage %: Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B"	#/ft 20.00	casing inside the Grade	85/8 p 110			Collapse	625 Ctors Burst 2.28	Length 20,308 0 0		a-B		Weigl 406,16 0 0
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C"	#/ft 20.00	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes	85/8 p 110 t psig: 2,237	cdc-htq 0	3.15	Collapse 2.2	625 Ctors Burst 2.28 Totals:	Length 20,308 0 0 0 20,308		a-B	3.69	Weigl 406,16 0 0 0 406,16
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement	8 5/8 p 110 t psig: 2,237 volume(s) are intend	cdc-htq 0 led to achieve a top of	3.15 9189	Collapse 2.2 ft from su	ctors Burst 2.28 Totals:	Length 20,308 0 0 20,308 200		a-B	3.69	Weigl 406,16 0 0 0 406,16 overlap.
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage	8 5/8 p 110 t psig: 2,237 volume(s) are intended 1 Stage	cdc-htq 0 led to achieve a top of Min	3.15 9189 1 Stage	Collapse 2.2 ft from su Drilling	Ctors Burst 2.28 Totals: rface or a Calc	Length 20,308 0 0 20,308 200 Req'd		a-B	3.69	Weigl 406,10 0 0 0 406,10 overlap.
D V Tool(s): by stage % : class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size	#/ft 20.00	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt	cdc-htq 0 led to achieve a top of Min Cu Ft	3.15 9189 1 Stage % Excess	ft from su Drilling Mud Wt	ctors Burst 2.28 Totals:	Length 20,308 0 0 20,308 200		a-B	3.69	Weigl 406,10 0 0 406,10 overlap. Min Di
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8	#/ft 20.00 w Annular Volume 0.1733	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage	8 5/8 p 110 t psig: 2,237 volume(s) are intended 1 Stage	cdc-htq 0 led to achieve a top of Min	3.15 9189 1 Stage	Collapse 2.2 ft from su Drilling	Ctors Burst 2.28 Totals: rface or a Calc	Length 20,308 0 0 20,308 200 Req'd		a-B	3.69	Weigl 406,10 0 0 406,10 overlap. Min Di
D V Tool(s): by stage % : Class 'H' tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt	#/ft 20.00 w Annular Volume 0.1733	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt	cdc-htq 0 led to achieve a top of Min Cu Ft	3.15 9189 1 Stage % Excess	ft from su Drilling Mud Wt	Ctors Burst 2.28 Totals: rface or a Calc	Length 20,308 0 0 20,308 200 Req'd		a-B	3.69	Weigi 406,10 0 0 406,10 overlap. Min Di Hole-C
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt	#/ft 20.00 w Annular Volume 0.1733	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft	3.15 9189 1 Stage % Excess	Collapse 2.2 ft from su Drilling Mud Wt 10.50	Ctors Burst 2.28 Totals: rface or a Calc MASP	Length 20,308 0 0 20,308 200 Req'd	2	a-B 3.82	3.69	Weigl 406,10 0 0 406,10 overlap. Min Di
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 5 77/8 Class 'C' tail cmt	#/ft 20.00 w Annular Volume 0.1733 t yld > 1.35	/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt	cdc-htq 0 led to achieve a top of Min Cu Ft 1927	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 20,308 0 0 20,308 200 Req'd	2	a-B	3.69	Weigl 406,10 0 0 406,10 overlap. Min Di Hole-Cl 0.79
D V Tool(s): by stage %: class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 class 'C' tail cmt	#/ft 20.00 w Annular Volume 0.1733	casing inside the Grade /8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling	3.15 9189 1 Stage % Excess	Collapse 2.2 ft from su Drilling Mud Wt 10.50	Ctors Burst 2.28 Totals: rface or a Calc MASP	Length 20,308 0 0 0 20,308 200 Req'd BOPE	2	a-B 3.82	3.69	Weigi 406,11 0 406,11 0 verlap. Min Di Hole-Ci 0.79
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt 4 N/A 0 Segment "A"	#/ft 20.00 w Annular Volume 0.1733 t yld > 1.35	/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling 0.00	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 20,308 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69</td><td>Weigi 406,11 0 406,11 0 verlap. Min Di Hole-Ci 0.79</td></c<>	a-B 3.82	3.69	Weigi 406,11 0 406,11 0 verlap. Min Di Hole-Ci 0.79
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt	#/ft 20.00 w Annular Volume 0.1733 t yld > 1.35	/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 20,308 0 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69</td><td>Weig 406,1 0 0 0 406,1 overlap. Min Di Hole-C 0.79</td></c<>	a-B 3.82	3.69	Weig 406,1 0 0 0 406,1 overlap. Min Di Hole-C 0.79
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt 4 N/A 0 Segment "A"	#/ft 20.00 Annular Volume 0.1733 t yid > 1.35	/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549	p 110 t psig: 2,237 volume(s) are intenc 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling 0.00	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 20,308 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69</td><td>Weig 406,1 0 0 406,1 overlap. Min D Hole-C 0.79</td></c<>	a-B 3.82	3.69	Weig 406,1 0 0 406,1 overlap. Min D Hole-C 0.79
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt 4 N/A 0 Segment "A"	#/ft 20.00 Annular Volume 0.1733 t yid > 1.35	Casing inside the Grade (8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549 Grade	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling 0.00	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50	Ctors Burst 2.28 Totals: rface or a Calc MASP Factors Burst Totals:	Length 20,308 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69 ing> a-C</td><td>Weig 406,1 0 0 406,1 overlap. Min D Hole-C 0.75</td></c<>	a-B 3.82	3.69 ing> a-C	Weig 406,1 0 0 406,1 overlap. Min D Hole-C 0.75
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt 4 N/A 0 Segment "A"	#/ft 20.00 Annular Volume 0.1733 t yid > 1.35	Casing inside the Grade (8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549 Grade	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00	9189 1 Stage % Excess 27	ft from su Drilling Mud Wt 10.50 Design Collapse	Ctors Burst 2.28 Totals: rface or a Calc MASP Factors Burst Totals:	Length 20,308 0 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69 ing> a-C</td><td>Weig 406,11 0 0 0 406,11 overlap. Min Di Hole-C 0.79 Weig 0 0 overlap.</td></c<>	a-B 3.82	3.69 ing> a-C	Weig 406,11 0 0 0 406,11 overlap. Min Di Hole-C 0.79 Weig 0 0 overlap.
D V Tool(s): by stage % : Class 'H' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cmt 4N/A 0 Segment "A" "B" "B"	#/ft 20.00 w Annular Volume 0.1733 t yld > 1.35	Casing inside the Grade (8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 1549 Grade (8.4#/g mud, 30min Sfc Csg Tes Cmt vol c	8 5/8 p 110 t psig: 2,237 volume(s) are intend 1 Stage CuFt Cmt 2445 5 1/2 t psig: alc below includes t	cdc-htq 0 led to achieve a top of Min Cu Ft 1927 Coupling 0.00 0.00 his csg, TOC intended	9189 1 Stage % Excess 27 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Totals: Totals: rfactors Burst	Length 20,308 0 0 0 20,308 200 Req'd BOPE	2 <c< td=""><td>a-B 3.82</td><td>3.69 ing> a-C</td><td>Weigi 406,11 0 0 406,11 overlap. Min Di Hole-Ci 0.79</td></c<>	a-B 3.82	3.69 ing> a-C	Weigi 406,11 0 0 406,11 overlap. Min Di Hole-Ci 0.79

Carlsbad Field Office 3/24/2025

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Devon Energy Production Company LP
LOCATION: Section 22, T.25 S., R.32 E., NMPM
COUNTY: Lea County, New Mexico

WELL NAME & NO.: Haflinger 22-27 Fed Com 121H

ATS/API ID: 3002552853 APD ID: 10400093890 Sundry ID: 2840404

COA

H2S	Yes ▼		
Potash	None 🔻	None ▼	
Cave/Karst Potential	Low		
Cave/Karst Potential	□Critical		
Variance	None	☐ Flex Hose	Other
Wellhead	Conventional and Multibowl	▼	
Other	□ 4 String □ 5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	Open Annulus	
Cementing	Contingency Squeeze Int 1	Echo-Meter None	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	▼ COM	Unit —
Special Requirements	☐ Batch Sundry	Waste Prevention Waste MP	
Special Requirements Variance	BOPE Break Testing Offline BOPE Testing	Offline Cementing	☐ Casing Clearance

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** 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 10-3/4 inch surface casing shall be set at approximately 950 feet (a minimum of 25 feet (Lea County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of 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.

Operator has proposed to pump down 10-3/4" 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. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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.

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

C. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi. Annular which shall be tested to 3500 (70% Working Pressure) 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 5000 (5M) psi.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 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 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR part 3170 Subpart 3171
- 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.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-689-5981 Lea County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Offline BOPE Testing

Operator has been (Approved) to test the BOPE offline.

The BOPE offline testing shall be stationary during pressure testing.

Online BOPE testing should commence within 72 hours of offline BOPE testing completion. Notify the BLM if interval exceeds 72 hours.

Notify the BLM 4hrs prior to offline BOPE testing at Lea County: 575-689-5981.

Offline Cementing

Operator has been (**Approved**) to pump the proposed cement program offline in the **Intermediate(s) interval**.

Offline cementing should commence within 24 hours of landing the casing for the interval.

Notify the BLM 4hrs prior to cementing offline at Lea County: 575-689-5981.

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)

✓ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 689-5981

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 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 **43** CFR part **3170** Subpart **3172** 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.

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 of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity 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 integrity 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 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 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 43 CFR 3172.6(b)(9) 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 cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be

- initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR part 3170 Subpart 3172 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 8 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 43 CFR part 3170 Subpart 3172.

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.

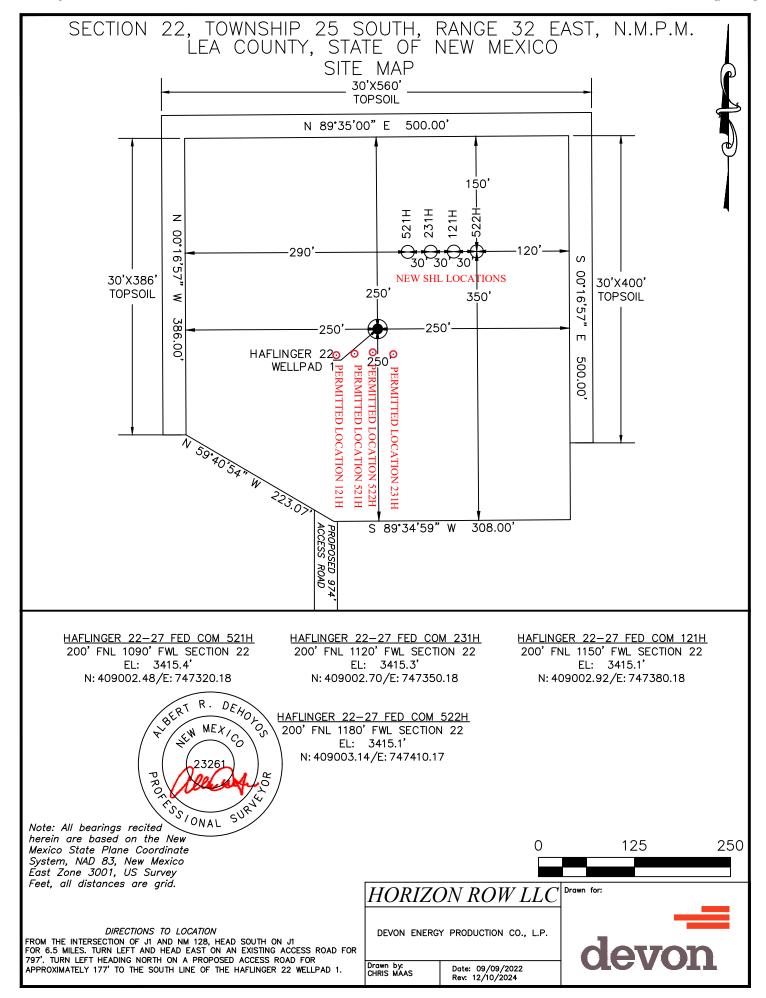
D. WASTE MATERIAL AND FLUIDS

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.

Long Vo (LVO) 3/24/2025



Offline Cementing

Variance Request

Devon Energy requests to offline cement on intermediate strings that are set in formations shallower than the Wolfcamp. Prior to commencing offline cementing operations, the well will be monitored for any abnormal pressures and confirmed to be static. A dual manifold system (equipped with chokes) for the returns will also be utilized as a redundancy. All equipment used for offline cementing will have a minimum 5M rating to match intermediate sections' 5M BOPE requirements.

1. Geologic Formations

TVD of target	10166	Pilot hole depth	N/A
MD at TD:	20308	Deepest expected fresh water	

Basin

	TT7 / /R # 0	
Depth		
(TVD)	Bearing/Target	Hazards*
from KB	Zone?	
775		
1157		
4627		
4627		
5637		
7052		
8452		
9569		
9858		
	775 1157 4627 4627 5637 7052 8452 9569	(TVD) Bearing/Target

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

2. Casing Program

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	800	0	800
9 7/8	8 5/8	32	P110HP	Talon	0	9389	0	9389
7 7/8	5 1/2	20	P110HP	CDC HTQ	0	20308	0	10166

[•]All casing strings will be tested in accordance with 43 CFR 3172. Must have table for contingency casing.

3. Cementing Program

Casing Casing	# Sks	TOC	Wt.	Yld (ft3/sack)	Slurry Description
Surface	488	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	349	Surf	9	3.27	Lead: Class C Cement + additives
Int 1	276	7052	13.2	1.44	Tail: Class H / C + additives
Int 1	793	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
Intermediate	349	Surf	9	3.27	Lead: Class C Cement + additives
Squeeze	276	7052	13.2	1.44	Tail: Class H / C + additives
Production	117	7489	9	3.27	Lead: Class H /C + additives
Froduction	1432	9489	13.2	1.44	Tail: Class H / C + additives

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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	T	ype	✓	Tested to:
			Anı	nular	X	50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	X	
IIIt I	13-3/6	JIVI	Pipe	Ram		5M
			Doub	le Ram	X	JIVI
			Other*			
			Annul	ar (5M)	X	50% of rated working pressure
Don't still to	12 5/01	10.5/01 53.6	Blind Ram		X	Î
Production	13-5/8"	5M	Pipe	Ram		5M
			Doub	le Ram	X	JIVI
			Other*			
			Annular (5M)			
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other*			
N A variance is requested for	the use of a	a diverter or	the surface	casing. See a	attached for s	chematic.
Y A variance is requested to 1	run a 5 M aı	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

6. Logging and Testing Procedures

Logging, C	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.

Addition	al 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	5550
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 43 CFR 3176. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.

measured	values and formations will be provided to the BEW.
N	H2S is present
Y	H2S plan attached.

8. Other facets of operation

Is this a walking operation? Potentially

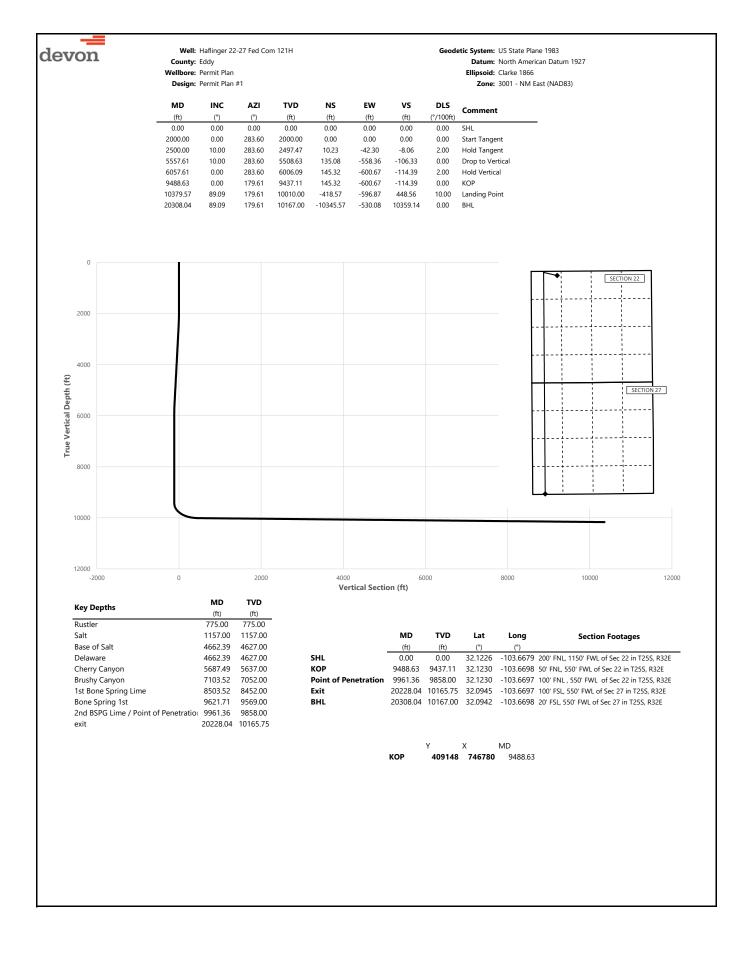
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- 2 The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and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

NOTE: During batch operations the drilling rig will be moved from well to well however, it will not be removed from the pad until all wells have production casing run/cemented.

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulation
- 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.

Attachment	ts
X	Directional Plan
	Other, describe





County: Eddy Wellbore: Permit Plan Geodetic System: US State Plane 1983

Datum: North American Datum 1927

Ellipsoid: Clarke 1866

	Design:	Permit Plan	n #1					Zone: 3001 - NM East (NAD83)
MD (ft)	INC	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	(°) 0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	283.60	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	283.60	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	283.60	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	283.60	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	283.60	500.00	0.00	0.00	0.00	0.00	
600.00 700.00	0.00	283.60 283.60	600.00 700.00	0.00	0.00	0.00	0.00	
775.00	0.00	283.60	775.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	283.60	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	283.60	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	283.60	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	283.60	1100.00	0.00	0.00	0.00	0.00	
1157.00	0.00	283.60	1157.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	283.60	1200.00	0.00	0.00	0.00	0.00	
1300.00 1400.00	0.00	283.60 283.60	1300.00 1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	283.60	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	283.60	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	283.60	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	283.60	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	283.60	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	283.60	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	283.60	2099.98	0.41	-1.70	-0.32	2.00	
2200.00	4.00	283.60	2199.84	1.64	-6.78	-1.29	2.00	
2300.00 2400.00	6.00 8.00	283.60 283.60	2299.45 2398.70	3.69 6.56	-15.25 -27.10	-2.90 -5.16	2.00 2.00	
2500.00	10.00	283.60	2497.47	10.23	-42.30	-8.06	2.00	Hold Tangent
2600.00	10.00	283.60	2595.95	14.32	-59.18	-11.27	0.00	Tiola tangent
2700.00	10.00	283.60	2694.43	18.40	-76.06	-14.48	0.00	
2800.00	10.00	283.60	2792.91	22.48	-92.94	-17.70	0.00	
2900.00	10.00	283.60	2891.39	26.57	-109.81	-20.91	0.00	
3000.00	10.00	283.60	2989.87	30.65	-126.69	-24.13	0.00	
3100.00	10.00	283.60	3088.35	34.73	-143.57	-27.34	0.00	
3200.00 3300.00	10.00 10.00	283.60 283.60	3186.83 3285.31	38.82 42.90	-160.45 -177.33	-30.55 -33.77	0.00	
3400.00	10.00	283.60	3383.79	46.98	-194.20	-36.98	0.00	
3500.00	10.00	283.60	3482.27	51.07	-211.08	-40.20	0.00	
3600.00	10.00	283.60	3580.75	55.15	-227.96	-43.41	0.00	
3700.00	10.00	283.60	3679.23	59.23	-244.84	-46.63	0.00	
3800.00	10.00	283.60	3777.72	63.31	-261.72	-49.84	0.00	
3900.00	10.00	283.60	3876.20	67.40	-278.59	-53.05	0.00	
4000.00	10.00	283.60	3974.68	71.48	-295.47	-56.27	0.00	
4100.00 4200.00	10.00 10.00	283.60 283.60	4073.16 4171.64	75.56 79.65	-312.35 -329.23	-59.48 -62.70	0.00	
4300.00	10.00	283.60	4270.12	83.73	-329.23	-65.91	0.00	
4400.00	10.00	283.60	4368.60	87.81	-362.98	-69.12	0.00	
4500.00	10.00	283.60	4467.08	91.90	-379.86	-72.34	0.00	
4600.00	10.00	283.60	4565.56	95.98	-396.74	-75.55	0.00	
4662.39	10.00	283.60	4627.00	98.53	-407.27	-77.56	0.00	Base of Salt, Delaware
4700.00	10.00	283.60	4664.04	100.06	-413.62	-78.77	0.00	
4800.00	10.00	283.60	4762.52	104.15	-430.49	-81.98	0.00	
4900.00 5000.00	10.00 10.00	283.60 283.60	4861.00 4959.48	108.23 112.31	-447.37 -464.25	-85.19 -88.41	0.00	
5100.00	10.00	283.60	5057.97	116.40	-464.25 -481.13	-86.41 -91.62	0.00	
5200.00	10.00	283.60	5156.45	120.48	-498.01	-94.84	0.00	
5300.00	10.00	283.60	5254.93	124.56	-514.88	-98.05	0.00	
5400.00	10.00	283.60	5353.41	128.64	-531.76	-101.27	0.00	
5500.00	10.00	283.60	5451.89	132.73	-548.64	-104.48	0.00	
5557.61	10.00	283.60	5508.63	135.08	-558.36	-106.33	0.00	Drop to Vertical
5600.00	9.15	283.60	5550.42	136.74	-565.22	-107.64	2.00	Characteristics
5687.49 5700.00	7.40 7.15	283.60	5637.00 5649.41	139.70 140.07	-577.46 -579.00	-109.97 -110.26	2.00 2.00	Cherry Canyon
5800.00	7.15 5.15	283.60 283.60	5649.41 5748.83	140.07	-579.00 -589.42	-110.26 -112.25	2.00	
5900.00	3.15	283.60	5848.56	144.30	-569.42 -596.45	-112.23	2.00	
6000.00	1.15	283.60	5948.48	145.18	-600.10	-114.28	2.00	
6057.61	0.00	283.60	6006.09	145.32	-600.67	-114.39	2.00	Hold Vertical
6100.00	0.00	179.61	6048.48	145.32	-600.67	-114.39	0.00	
6200.00	0.00	179.61	6148.48	145.32	-600.67	-114.39	0.00	
6300.00	0.00	179.61	6248.48	145.32	-600.67	-114.39	0.00	



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 Plar	1#1		Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS		
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
6400.00	0.00	179.61	6348.48	145.32	-600.67	-114.39	0.00		
6500.00	0.00	179.61	6448.48	145.32	-600.67	-114.39	0.00		
6600.00	0.00	179.61	6548.48	145.32	-600.67	-114.39	0.00		
6700.00	0.00	179.61	6648.48	145.32	-600.67	-114.39	0.00		
6800.00	0.00	179.61	6748.48	145.32	-600.67	-114.39	0.00		
6900.00	0.00	179.61	6848.48	145.32	-600.67	-114.39	0.00		
7000.00	0.00	179.61	6948.48	145.32	-600.67	-114.39	0.00		
7100.00	0.00	179.61	7048.48	145.32	-600.67	-114.39	0.00		
7103.52	0.00	179.61	7052.00	145.32	-600.67	-114.39	0.00	Brushy Canyon	
7200.00	0.00	179.61	7148.48	145.32	-600.67	-114.39	0.00		
7300.00	0.00	179.61	7248.48	145.32	-600.67	-114.39	0.00		
7400.00	0.00	179.61	7348.48	145.32	-600.67	-114.39	0.00		
7500.00	0.00	179.61	7448.48	145.32	-600.67	-114.39	0.00		
7600.00	0.00	179.61	7548.48	145.32	-600.67	-114.39	0.00		
7700.00	0.00	179.61	7648.48	145.32	-600.67	-114.39	0.00		
7800.00	0.00	179.61	7748.48	145.32	-600.67	-114.39	0.00		
7900.00	0.00	179.61	7848.48	145.32	-600.67	-114.39	0.00		
8000.00	0.00	179.61	7948.48	145.32	-600.67	-114.39	0.00		
8100.00	0.00	179.61	8048.48	145.32	-600.67	-114.39	0.00		
8200.00	0.00	179.61	8148.48	145.32	-600.67	-114.39	0.00		
8300.00 8400.00	0.00	179.61 179.61	8248.48 8348.48	145.32 145.32	-600.67 -600.67	-114.39 -114.39	0.00		
8400.00 8500.00	0.00	179.61	8348.48 8448.48	145.32	-600.67 -600.67	-114.39 -114.39	0.00		
8503.52	0.00	179.61	8452.00	145.32	-600.67 -600.67	-114.39	0.00	1st Bone Spring Lime	
8600.00	0.00	179.61	8548.48	145.32	-600.67	-114.39	0.00	13t bone Spring Lime	
8700.00	0.00	179.61	8648.48	145.32	-600.67	-114.39	0.00		
8800.00	0.00	179.61	8748.48	145.32	-600.67	-114.39	0.00		
8900.00	0.00	179.61	8848.48	145.32	-600.67	-114.39	0.00		
9000.00	0.00	179.61	8948.48	145.32	-600.67	-114.39	0.00		
9100.00	0.00	179.61	9048.48	145.32	-600.67	-114.39	0.00		
9200.00	0.00	179.61	9148.48	145.32	-600.67	-114.39	0.00		
9300.00	0.00	179.61	9248.48	145.32	-600.67	-114.39	0.00		
9400.00	0.00	179.61	9348.48	145.32	-600.67	-114.39	0.00		
9488.63	0.00	179.61	9437.11	145.32	-600.67	-114.39	0.00	KOP	
9500.00	1.14	179.61	9448.48	145.20	-600.67	-114.28	10.00		
9600.00	11.14	179.61	9547.78	134.53	-600.59	-103.62	10.00		
9621.71	13.31	179.61	9569.00	129.93	-600.56	-99.03	10.00	Bone Spring 1st	
9700.00	21.14	179.61	9643.72	106.77	-600.41	-75.91	10.00		
9800.00	31.14	179.61	9733.38	62.78	-600.11	-31.99	10.00		
9900.00	41.14	179.61	9814.04	3.88	-599.71	26.81	10.00		
9961.36	47.27	179.61	9858.00	-38.88	-599.43	69.50	10.00	2nd BSPG Lime / Point of Penetration	
10000.00	51.14	179.61	9883.24	-68.12	-599.23	98.70	10.00		
10100.00	61.14	179.61	9938.89	-151.05	-598.67	181.49	10.00		
10200.00	71.14	179.61	9979.30	-242.39	-598.06	272.67	10.00		
10300.00	81.14	179.61	10003.23	-339.35	-597.40	369.47	10.00		
10379.57	89.09	179.61	10010.00	-418.57	-596.87	448.56	10.00	Landing Point	
10400.00	89.09	179.61	10010.32	-438.99	-596.73	468.95	0.00		
10500.00	89.09	179.61	10011.90	-538.98	-596.06	568.77	0.00		
10600.00	89.09	179.61	10013.49	-638.96	-595.39	668.59	0.00		
10700.00 10800.00	89.09 89.09	179.61 179.61	10015.07 10016.65	-738.95 -838.93	-594.72 -594.04	768.41 868.23	0.00		
10800.00	89.09	179.61	10016.65	-838.93 -938.92	-594.04 -593.37	968.05	0.00		
11000.00	89.09	179.61	10018.23	-936.92 -1038.90	-593.37 -592.70	1067.87	0.00		
11100.00	89.09	179.61	10013.81	-1138.89	-592.02	1167.69	0.00		
11200.00	89.09	179.61	10021.33	-1238.87	-591.35	1267.51	0.00		
11300.00	89.09	179.61	10024.56	-1338.86	-590.68	1367.33	0.00		
11400.00	89.09	179.61	10024.30	-1438.84	-590.00	1467.15	0.00		
11500.00	89.09	179.61	10027.72	-1538.83	-589.33	1566.97	0.00		
11600.00	89.09	179.61	10029.30	-1638.81	-588.66	1666.79	0.00		
11700.00	89.09	179.61	10030.88	-1738.80	-587.99	1766.61	0.00		
11800.00	89.09	179.61	10032.46	-1838.79	-587.31	1866.43	0.00		
11900.00	89.09	179.61	10034.04	-1938.77	-586.64	1966.25	0.00		
12000.00	89.09	179.61	10035.63	-2038.76	-585.97	2066.07	0.00		
12100.00	89.09	179.61	10037.21	-2138.74	-585.29	2165.89	0.00		
12200.00	89.09	179.61	10038.79	-2238.73	-584.62	2265.71	0.00		
12300.00	89.09	179.61	10040.37	-2338.71	-583.95	2365.53	0.00		
12400.00	89.09	179.61	10041.95	-2438.70	-583.27	2465.35	0.00		
12500.00	89.09	179.61	10043.53	-2538.68	-582.60	2565.17	0.00		
12600.00	89.09	179.61	10045.11	-2638.67	-581.93	2664.99	0.00		
12700.00	89.09	179.61	10046.70	-2738.65	-581.26	2764.81	0.00		



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 Plan #1							Zone: 3001 - NM East (NAD83)	
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	
12800.00	89.09	179.61	10048.28	-2838.64	-580.58	2864.63	0.00	
12900.00	89.09	179.61	10049.86	-2938.62	-579.91	2964.45	0.00	
13000.00	89.09	179.61	10051.44	-3038.61	-579.24	3064.27	0.00	
13100.00	89.09	179.61	10053.02	-3138.59	-578.56	3164.09	0.00	
13200.00	89.09	179.61	10054.60	-3238.58	-577.89	3263.91	0.00	
13300.00	89.09	179.61	10056.18	-3338.56	-577.22	3363.73	0.00	
13400.00	89.09	179.61	10057.77	-3438.55	-576.54	3463.55	0.00	
13500.00	89.09	179.61	10059.35	-3538.53	-575.87	3563.37	0.00	
13600.00	89.09	179.61	10060.93	-3638.52	-575.20	3663.19	0.00	
13700.00	89.09	179.61	10062.51	-3738.50	-574.53	3763.01	0.00	
13800.00	89.09	179.61	10064.09	-3838.49	-573.85	3862.83	0.00	
13900.00	89.09	179.61	10065.67	-3938.47	-573.18	3962.65	0.00	
14000.00	89.09	179.61	10067.25	-4038.46	-572.51	4062.47	0.00	
14100.00	89.09	179.61	10068.84	-4138.45	-571.83	4162.29	0.00	
14200.00	89.09	179.61	10070.42	-4238.43	-571.16	4262.10	0.00	
14300.00	89.09	179.61	10072.00	-4338.42	-570.49	4361.92	0.00	
14400.00	89.09	179.61	10073.58	-4438.40	-569.81	4461.74	0.00	
4500.00	89.09	179.61	10075.16	-4538.39	-569.14	4561.56	0.00	
4600.00	89.09	179.61	10076.74	-4638.37	-568.47	4661.38	0.00	
4700.00	89.09	179.61	10078.32	-4738.36	-567.80	4761.20	0.00	
4800.00	89.09	179.61	10079.91	-4838.34	-567.12	4861.02	0.00	
14900.00	89.09	179.61	10081.49	-4938.33	-566.45	4960.84	0.00	
15000.00	89.09	179.61	10083.07	-5038.31	-565.78	5060.66	0.00	
15100.00	89.09	179.61	10084.65	-5138.30	-565.10	5160.48	0.00	
15200.00	89.09	179.61	10086.23	-5238.28	-564.43	5260.30	0.00	
15300.00	89.09	179.61	10087.81	-5338.27	-563.76	5360.12	0.00	
15400.00	89.09	179.61	10089.39	-5438.25	-563.08	5459.94	0.00	
15500.00	89.09	179.61	10090.98	-5538.24	-562.41	5559.76	0.00	
15600.00	89.09	179.61	10092.56	-5638.22	-561.74	5659.58	0.00	
15700.00	89.09	179.61	10094.14	-5738.21	-561.07	5759.40	0.00	
15800.00	89.09	179.61	10095.72	-5838.19	-560.39	5859.22	0.00	
15900.00	89.09	179.61	10097.30	-5938.18	-559.72	5959.04	0.00	
16000.00	89.09	179.61	10098.88	-6038.16	-559.05	6058.86	0.00	
16100.00	89.09	179.61	10100.46	-6138.15	-558.37	6158.68	0.00	
16200.00	89.09	179.61	10102.05	-6238.14	-557.70	6258.50	0.00	
16300.00	89.09	179.61	10103.63	-6338.12	-557.03	6358.32	0.00	
16400.00	89.09	179.61	10105.03	-6438.11	-556.35	6458.14	0.00	
16500.00				-6538.09	-555.68			
16600.00	89.09	179.61	10106.79		-555.01	6557.96	0.00	
	89.09	179.61	10108.37	-6638.08		6657.78		
16700.00	89.09	179.61	10109.95	-6738.06	-554.34	6757.60	0.00	
16800.00	89.09	179.61	10111.53	-6838.05	-553.66	6857.42	0.00	
16900.00	89.09	179.61	10113.12	-6938.03	-552.99	6957.24	0.00	
17000.00	89.09	179.61	10114.70	-7038.02	-552.32	7057.06	0.00	
17100.00	89.09	179.61	10116.28	-7138.00	-551.64	7156.88	0.00	
17200.00	89.09	179.61	10117.86	-7237.99	-550.97	7256.70	0.00	
17300.00	89.09	179.61	10119.44	-7337.97	-550.30	7356.52	0.00	
17400.00	89.09	179.61	10121.02	-7437.96	-549.62	7456.34	0.00	
17500.00	89.09	179.61		-7537.94	-548.95	7556.16	0.00	
17600.00	89.09	179.61	10124.19	-7637.93	-548.28	7655.98	0.00	
17700.00	89.09	179.61	10125.77	-7737.91	-547.61	7755.80	0.00	
17800.00	89.09	179.61	10127.35	-7837.90	-546.93	7855.62	0.00	
17900.00	89.09	179.61	10128.93	-7937.88	-546.26	7955.44	0.00	
18000.00	89.09	179.61	10130.51	-8037.87	-545.59	8055.26	0.00	
18100.00	89.09	179.61	10132.09	-8137.85	-544.91	8155.08	0.00	
18200.00	89.09	179.61	10133.67	-8237.84	-544.24	8254.90	0.00	
18300.00	89.09	179.61	10135.26	-8337.83	-543.57	8354.72	0.00	
18400.00	89.09	179.61	10136.84	-8437.81	-542.89	8454.54	0.00	
18500.00	89.09	179.61	10138.42	-8537.80	-542.22	8554.36	0.00	
18600.00	89.09	179.61	10140.00	-8637.78	-541.55	8654.18	0.00	
18700.00	89.09	179.61	10141.58	-8737.77	-540.88	8754.00	0.00	
18800.00	89.09	179.61	10143.16	-8837.75	-540.20	8853.82	0.00	
18900.00	89.09	179.61	10144.75	-8937.74	-539.53	8953.64	0.00	
19000.00	89.09	179.61	10146.33	-9037.72	-538.86	9053.46	0.00	
19100.00	89.09	179.61	10140.33	-9137.71	-538.18	9153.28	0.00	
19200.00	89.09	179.61	10147.91	-9237.69	-537.51	9253.09	0.00	
19300.00	89.09	179.61	10149.49	-9337.68	-536.84	9352.91	0.00	
19400.00	89.09	179.61		-9437.66	-536.04	9452.73	0.00	
19500.00		179.61	10152.65 10154.23	-9437.66 -9537.65	-535.16	9452.73		
19600.00	89.09 89.09		10154.23	-9537.65 -9637.63			0.00	
	03.03	179.61	10133.82	-3057.03	-534.82	9652.37	0.00	
19700.00	89.09	179.61	10157.40	-9737.62	-534.15	9752.19	0.00	



County: Eddy
Wellbore: Permit Plan
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Geodetic System: US State Plane 1983

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

MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19800.00	89.09	179.61	10158.98	-9837.60	-533.47	9852.01	0.00	
19900.00	89.09	179.61	10160.56	-9937.59	-532.80	9951.83	0.00	
20000.00	89.09	179.61	10162.14	-10037.57	-532.13	10051.65	0.00	
20100.00	89.09	179.61	10163.72	-10137.56	-531.45	10151.47	0.00	
20200.00	89.09	179.61	10165.30	-10237.54	-530.78	10251.29	0.00	
20228.04	89.09	179.61	10165.75	-10265.58	-530.59	10279.28	0.00	exit
20300.00	89.09	179.61	10166.89	-10337.53	-530.11	10351.11	0.00	
20308.04	89.09	179.61	10167.00	-10345.57	-530.08	10359.14	0.00	BHL

Section 2 - Blowout Preventer Testing Procedure

Variance Request

Devon Energy requests to only test BOP connection breaks after drilling out of surface casing and while skidding between wells which conforms to API Standard 53 and industry standards. The initial BOP test will follow 43 CFR 3172, and subsequent tests following a skid will only test connections that are broken. This test will at minimum include the Top Pipe Ram, HCR, Kill Line Check Valve, QDC (quick disconnect to wellhead) and BOP shell of the 10M BOPE to 5M for 10 minutes. Additional pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. If a break to the flex hose that runs to the choke manifold is required due to repositioning from a skid, the HCR will remain open during the shell test to include that additional break. The variance only pertains to intermediate hole-sections. This variance will meet or exceed 43 CFR 3172 per the following: Devon Energy will perform a full BOP test per 43 CFR 3172 before drilling out of the intermediate casing string(s) and starting the production hole, testing the Annular during initial BOP testing to a minimum of 70% RWP and higher than MASP, and pressure testing at a 21-day interval frequency. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event break testing is not utilized, then a full BOPE test would be conducted.

Devon Energy requests to perform offline BOP stump testing and offline BOPE testing. All pressure-containing and pressure-controlling seals will be tested either online or offline as denoted in the table below and per BLM approval during initial BOP test following test pressure requirements set forth in 43 CFR 3172. Remaining components not tested offline or on the stump will be tested within 72-hours when the BOP is connected to the wellhead. If stump testing exceeds 72-hour window prior to connecting to the wellhead, the BLM will be notified and either stump testing restarted, or the BOP being tested online. The BLM will be contacted 4hrs prior to a BOPE test. The BLM will be notified if and when a well control event is encountered. In the event stump testing is not utilized, then a full BOPE test would be conducted.

Components	Offline	Offline, BOPE	Break	Online
Upper Rams		X	X	Х
Blind Rams		Х		Х
Lower Rams				X
Outside Kill Valve		X	X	X
Inside Kill Valve		X	X	X
Kill Line Check Valve		Х	Х	Х
Inside Choke Valve		Х	Х	Х
HCR		X	X	X
Kill Line	X			X
Annular		X		X
Choke Manifold Valves and Hose	Χ			X
Mudline (Mud Pumps, Rig Floor Valves, Kelly Hose, Mud Line)	Х			X
Standpipe Valve	Х			X
IBOP (Upper and Lower)	X			X

Devon requests offline BOPE testing for the following components: Upper Rams, Blind Rams, Kill Valves, Choke Valves, and Annular Remaining well control equipment components will either be tested offline or online, per BLM approval

Remaining BOPE will be tested online within 72-hours form completing the offline BOPE component testing

Notify the BLM if the online BOPE testing exceeds 72-hours

All Full Tests not completed "Offline" or "Offline, BOPE" are required to be complete Online

Devon requests Break testing as stated above for 5K tests, not including production hole

 $Annular\ Preventer\ will\ be\ tested\ to\ minimum\ of\ 70\%\ RWP\ and\ higher\ than\ MASP\ during\ initial\ BOP\ test$

Pressure testing is required for pressure-containing connections if the integrity of a pressure seal is broken during a break test Full Tests required when entering production hole



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U. S. Steel Tubular Products 5.500" 20.00lb/ft (0.361" Wall)

P110 HP USS-CDC HTQ®

MECHANICAL PROPERTIES	Pipe	USS-CDC HTQ [®]		
Minimum Yield Strength	125,000		psi	-
Maximum Yield Strength	140,000		psi	-
Minimum Tensile Strength	130,000		psi	-
DIMENSIONS	Pipe	USS-CDC HTQ [®]		
Outside Diameter	5.500	6.300	in.	-
Wall Thickness	0.361		in.	-
Inside Diameter	4.778	4.778	in.	-
Standard Drift	4.653	4.653	in.	-
Alternate Drift			in.	-
Nominal Linear Weight, T&C	20.00		lb/ft	-
Plain End Weight	19.83		lb/ft	-
SECTION AREA	Pipe	USS-CDC HTQ [®]		-
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		97.0	%	-
PERFORMANCE	Pipe	USS-CDC HTQ [®]		-
Minimum Collapse Pressure	13,150	13,150	psi	
Fotom of December 1 1 D 11				
External Pressure Leak Resistance		10,520	psi	-
External Pressure Leak Resistance Minimum Internal Yield Pressure	 14,360	10,520 14,360	psi psi	-
Minimum Internal Yield Pressure	14,360	14,360	psi	-
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength	14,360 729,000	14,360 	psi Ib	- - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength	14,360 729,000	14,360 707,000	psi Ib Ib	- - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating	14,360 729,000	14,360 707,000 424,000	psi Ib Ib Ib	- - - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length	14,360 729,000	14,360 707,000 424,000 23,567	psi Ib Ib Ib ft	- - - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating	14,360 729,000 	14,360 707,000 424,000 23,567 60.6	psi Ib Ib Ib ft	- - - - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating MAKE-UP DATA	14,360 729,000 	14,360 707,000 424,000 23,567 60.6 USS-CDC HTQ [®]	psi Ib Ib Ib ft deg/100 ft	- - - - -
Minimum Internal Yield Pressure Minimum Pipe Body Yield Strength Joint Strength Compression Rating Reference Length Maximum Uniaxial Bend Rating MAKE-UP DATA Make-Up Loss	14,360 729,000 	14,360 707,000 424,000 23,567 60.6 USS-CDC HTQ [®] 4.63	psi Ib Ib Ib ft deg/100 ft in.	- - - - - -

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness and Specified Minimum Yield Strength (SMYS).
- 2. Uniaxial bending rating shown is structural only, and equal to compression efficiency.
- 3. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 4. Reference length is calculated by joint strength divided by nominal threaded and coupled weight with 1.5 safety factor.
- 5. Connection external pressure leak resistance has been verified to 80% API pipe body collapse pressure following the guidelines of API 5C5 Cal II.

Legal Notice

USS - CDC HTQ[®] (High Torque Casing Drilling Connection) is a trademark of U. S. Steel Corporation. This product is a modified API Buttress threaded and coupled connection designed for drilling with casing applications. All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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8/13/2024 10:39:15 AM

U. S. Steel Tubular Products 8.625" 32.00lb/ft (0.352" Wall)

P110 HP USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	8.625	9.000	in.	
Wall Thickness	0.352		in.	
Inside Diameter	7.921	7.921	in.	
Standard Drift	7.796	7.796	in.	
Alternate Drift	7.796	7.875	in.	
Nominal Linear Weight, T&C	32.00		lb/ft	
Plain End Weight	31.13		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	9.149	9.149	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	4,530	4,530	psi	
Minimum Internal Yield Pressure	8,930	8,930	psi	
Minimum Pipe Body Yield Strength	1,144,000		lb	
Joint Strength		1,144,000	lb	
Compression Rating		1,144,000	lb	
Reference Length		23,830	ft	[5]
Maximum Uniaxial Bend Rating		66.4	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		22,300	ft-lb	[4]
Maximum Make-Up Torque		25,300	ft-lb	[4]
Maximum Operating Torque		111,500	ft-lb	[4]

Notes

- 1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).
- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- 3. Uniaxial bend rating shown is structural only.
- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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<u>10-3/4"</u>	<u>45.50#</u>	0.400"	<u>J-55</u>				
<u>Dimensions (Nominal)</u>							
Outside Diameter			10.750	in.			
Wall			0.400	in.			
Inside Diameter			9.950	in.			
Drift			9.875	in.			
Weight, T&C			45.500	lbs/ft			
Weight, PE			44.260	lbs/ft			
<u>Performance</u>	Performance Properties						
Collapse			2090	psi			
Internal Yield Pres	sure at Minimum Yield						
	PE		3580	psi			
	STC		3580	psi			
	ВТС		3580	psi			
Yield Strength, Pip	e Body		715	1000 lbs			
Joint Strength							
	STC		493	1000 lbs			
	ВТС		796	1000 lbs			
	BTC Special Clearance ((11.25" OD Cplg)	506	1000 lbs			

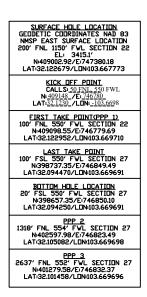
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.

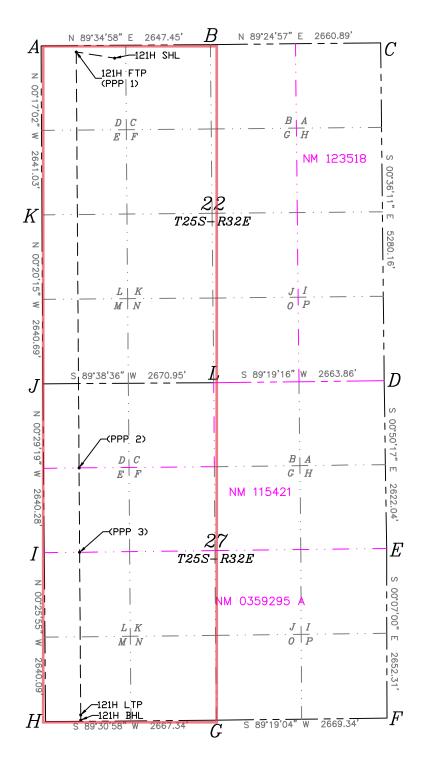
C-10	02		Energy.	Minera	State of ls & Natura	New Mexico al Resources Depa	rtment		Rev	rised July, 2024
Submit Electronically OIL CONSER										
Via OCD Permitting					Submittal		!			
						Type:	☐ Amended Repor	rt		
							☐ As Drilled			
				W	ELL LOCAT	ION INFORMATIO	N			
	umber		Pool Cod			Pool Name	a aa a a s a	2250 1	WID DOVE CDD	D.I.G.
30-025-52853 97903 Property Code Property Name					WC-025 0	3-08 S253	3235G; 1	WR BONE SPR	ING	
					R 22-27 FED COM	[121H		
OGRID No. Operator Name					DODILGERON, GOMB	. N. T. D.		Ground Level	Elevation	
				RODUCTION COMPANY, L.P. 3415.1'						
Surfac	e Owner:	□State □	Fee □Tril	oal XFe	deral	Mineral Owner:	□State	∐Fee □	Tribal XFederal	
					Sur	face Location				
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County
D	22	25-S	32-E		200' N	1150' W	32.122	679	103.667773	LEA
					Botto	m Hole Location				
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County
M	27	25-S	32-E		20' S	550' W	32.094	250	103.669691	LEA
Dedicat	ed Acres l	nfill or Def	ining Well	Defining	Well API Over	rlapping Spacing Uni	t (Y/N)	Consolid	ation Code	
640	.00	INFILL	,	30-025-	52992					
Order	Numbers				Well	setbacks are under Common Ownership: Yes No				
			_			ff Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from N	·	Latitude		Longitude	County
D	22	25-S	32-E		50' N	550' W	32.1230)	-103.6698	LEA
	1		ı	T		ake Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from N,		Latitude	0.50	Longitude	County
D	22	25-S	32-E		100' N	550' W	32.122	952	103.669710	LEA
Last Take Point (LTP)										
UL	Section	Township	Range	Lot	Ft. from N	· · · · · · · · · · · · · · · · · · ·	Latitude		Longitude	County
M	27	25-S	32-E		100' S	550' W	32.094	470	103.669691	LEA
Spacing			Unit Type Horizontal Vertical Ground Floor Ele		vation:					
						A				
OPERAT	OR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS			
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, 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 a working interest or unleased			I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under supervision, and that the same is true and							
								correct to the best of my belief.		
				nterest, or to a e entered by the		ng agreement	or a compuls	ory pooling order		
	•								A SEM	\%\\\
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral			;			2326	L)			
interest in each tract (in the target pool or formation) in which any part of the well's					PR DOC	1 / E				
completed interval will be located or obtained a compulsory pooling order from the division.						0				
Amy A. Brown 01/21/2025			Ciamatana 3 C 3	af Df	naine -1 C	227	<u> </u>			
Signature Date			Signature and Seal	or Profes	ssional S	Surveyor ONAL	/			
Amy	A. Brow	n								
	ed Name					Certificate Number	Date of	Survey		
	.brown@ Address	dvn.com				23261	12/20	24		
Linail	Auuress					20201	1~/~0	~~		

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.





A=N:409194.54/E:746229.21
B=N:409213.82/E:748876.59
C=N:409240.94/E:751537.34
D=N:403961.08/E:751592.91
E=N:401339.32/E:751631.26
F=N:398687.01/E:751631.26
G=N:398655.22/E:748967.51
H=N:398632.70/E:746300.26
I=N:401272.71/E:746280.36
J=N:403912.90/E:746257.84
K=N:406553.54/E:746242.29
L=N:403929.52/E:748928.74

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 449111

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	449111
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
matthew.gomez	A [C-103] Sub. Drilling (C-103N) is required within (10) days of spud.	4/28/2025
matthew.gomez	Notify the OCD 24 hours prior to casing & cement.	4/28/2025
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	4/28/2025