Cerver by WCD. S/17/2025 11:08:59 PM U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reports
Well Name: THOROUGHBRED 10-3 FED COM	Well Location: T26S / R31E / SEC 10 / SESW / 32.0507341 / -103.7694589	County or Parish/State: EDDY / NM
Well Number: 831H	Type of Well: OIL WELL	Allottee or Tribe Name:
Lease Number: NMNM120904	Unit or CA Name:	Unit or CA Number: NMNM143512
US Well Number: 30-015-56777	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2857826

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/12/2025

Date proposed operation will begin: 06/13/2025

Type of Action: APD Change Time Sundry Submitted: 12:03

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests a Well Name, BHL, dedicated acreage and drill plan change for the subject well (API ID 10400101323). Please see revised C102, drill plan, and directional plan attached. Permitted Well Name: Thoroughbred 10-3 Fed Com 831H Proposed Well Name: Thoroughbred 10-3 Fed 820H Permitted BHL: UL L, 2646 FSL, 990 FWL, Sec 3, T 26S, R 31E Proposed BHL: UL C, 20 FNL, 1850 FWL, Sec 3, T 26S, R 31E Permitted Acreage: 240.00 Proposed Acreage: 320.00

NOI Attachments

Procedure Description

5.5_20lb_P110EC_DWC_C_IS_PLUS_20250612120219.pdf

8.625_32lb_P110_ICY_20250612120203.pdf

10.75_45.5lb_J55_BTC_20250612120144.pdf

THOROUGHBRED_10_3_FED_820H_Directional_Plan_06_11_25_20250612120050.pdf

THOROUGHBRED_10_3_FED_820H_6_11_25_20250612120036.pdf

WA022471636_THOROUGHBRED_10_3_FED_820H_SIGNED_20250612120022.pdf

County or Parish/State: EDDY? of well wame: THOROUGHBRED 10-3 Well Location: T26S / R31E / SEC 10 / FED COM SESW / 32.0507341 / -103.7694589 NM Well Number: 831H Allottee or Tribe Name: Type of Well: OIL WELL Unit or CA Number: Lease Number: NMNM120904 Unit or CA Name: NMNM143512 **US Well Number: Operator: DEVON ENERGY** PRODUCTION COMPANY LP **Conditions of Approval Specialist Review** Thoroughbred_10_3_Fed_820H_Sundry_ID_2857826_20250617060530.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

Name: DEVON ENERGY PRODUCTION COMPANY LP

Operator Electronic Signature: AMY BROWN

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

State:

City: OKLAHOMA CITY State: OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name: Street Address: City: Phone: Email address:

BLM Point of Contact

BLM POC Name: LONG VO BLM POC Phone: 5759885402 Disposition: Approved Signature: Long Vo BLM POC Title: Petroleum Engineer BLM POC Email Address: LVO@BLM.GOV Disposition Date: 06/17/2025

Signed on: JUN 12, 2025 12:02 PM

Zip:

Received by OCD: 6/17/2025 11:08:59 PM

Form 3160-5 (June 2019)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MAN	INTERIOR	ON	RM APPROVED 1B No. 1004-0137 es: October 31, 2021
Do not use	RY NOTICES AND REP his form for proposals rell. Use Form 3160-3 (/	6. If Indian, Allottee or Tribe Na	ime	
SUBN	T IN TRIPLICATE - Other inst	ructions on page 2	7. If Unit of CA/Agreement, Na	me and/or No.
1. Type of Well	Gas Well Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address 3b. Phone No. (include area cod)			10. Field and Pool or Exploratory Area	
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)			11. Country or Parish, State	
12	CHECK THE APPROPRIATE I	BOX(ES) TO INDICATE NATURE (DF NOTICE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION		TYPE	E OF ACTION	
Notice of Intent	Acidize	Deepen [Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report Casing Repair Change Plans		New Construction Image: Construction Plug and Abandon Image: Construction	Recomplete Temporarily Abandon	Other
Final Abandonment Notic	e Convert to Injectio	n Plug Back [Water Disposal	
13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of a the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subseq completion of the involved operations. If the operation results in a multiple completion or recompletion in a new int completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been is ready for final inspection.)			asured and true vertical depths of Required subsequent reports must tion in a new interval, a Form 316	all pertinent markers and zones. Attach be filed within 30 days following 50-4 must be filed once testing has been

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)			
	Title		
Signature	Date		
THE SPACE FOR FEDE	RAL OR STATE OF	ICE USE	
Approved by			
	Title		Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant of certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		fully to make to any c	lepartment or agency of the United States

Page 4 of 55

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

Additional Information

Location of Well

0. SHL: SESW / 220 FSL / 1610 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0507341 / LONG: -103.7694589 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 100 FSL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0504012 / LONG: -103.7714597 (TVD: 11366 feet, MD: 11420 feet) PPP: NWSW / 1479 FSL / 989 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0541934 / LONG: -103.7714558 (TVD: 12373 feet, MD: 13600 feet) BHL: NWSW / 2646 FSL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 3 / LAT: 32.0720544 / LONG: -103.7714272 (TVD: 12393 feet, MD: 20098 feet)



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Semi-Premium T&C	
6.300	in.
4.778	in.
4.125	in.
9.250	in.
5.828	sq.in.
100.0%	of pipe
	6.300 4.778 4.125 9.250 5.828 100.0% 100.0%

CONNECTION PERFORMANCES 729 klb Yield Strength Parting Load 787 klb **Compression Rating** 729 klb Min. Internal Yield 14,360 psi *High Collapse* 12,090 psi Maximum Uniaxial Bend Rating 104.2 °/100 ft Ref String Length w 1.4 Design Factor 26,040 ft

FIELD TORQUE VALUES		
Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
+Max Operational Torque	24,300	ft.lbs
+Maximum Torsional Value (MTV)	26,730	ft.lbs

+Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234 VAM USA Sales E-mail: <u>VAMUSAsales@vam-usa.com</u> Tech Support E-mail: tech.support@vam-usa.com

DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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Tenaris

TenarisHydril Wedge 441[®] - AD



Couping	Fipe body
Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Pine Rody

Outside Diameter	8.625 in.	Wall Thickness	0.352 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

Geometry			
Nominal OD	8.625 in.	Wall Thickness	0.352 in.
Nominal Weight	32.00 lb/ft	Plain End Weight	31.13 lb/ft
Drift	7.875 in.	OD Tolerance	API
Nominal ID	7.921 in.		

Devel

Performance

Coupling

Body Yield Strength	1144 x1000 lb
Min. Internal Yield Pressure	9180 psi
SMYS	125,000 psi
Collapse Pressure	4000 psi

Connection Data

Geometry	
Connection OD	8.889 in.
Coupling Length	8.862 in.
Connection ID	7.921 in.
Make-up Loss	3.744 in.
Threads per inch	3.43
Connection OD Option	Regular

Performance	
Tension Efficiency	81.20 %
Joint Yield Strength	929 x1000 lb
Internal Pressure Capacity	9180 psi
Compression Efficiency	81.20 %
Compression Strength	929 x1000 lb
Max. Allowable Bending	53.59 °/100 ft
External Pressure Capacity	4000 psi

Make-Up Torques	
Minimum	23,000 ft-Ib
Optimum	24,000 ft-Ib
Maximum	27,000 ft-lb
Operation Limit Torques	
Operating Torque	59,000 ft-Ib
Yield Torque	70,000 ft-Ib
Buck-On	
Minimum	27,000 ft-Ib
Maximum	29,000 ft-Ib

Notes

For the lastest performance data, always visit our website: www.tenaris.com For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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<u>10-3/4"</u>	<u>45.50#</u>	<u>0.400"</u>	<u>J-55</u>	
Dimensions	(Nominal)			
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
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
	BTC		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.



dorron		Well:	THOROUGI	HBRED 10-3 F	ED 820H				Geodetic System:	US State Plane 1983
devon		County:	Eddy		-					North American Datum 1927
			Permit Plan Permit Plan						•	Clarke 1866 3001 - NM East (NAD83)
		Design:	Permit Plan	#1					Zone:	3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	VS	DLS	Comment	
	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL	
	100.00	0.00	125.00	100.00	0.00	0.00	0.00	0.00	0.12	
	200.00	0.00	125.00	200.00	0.00	0.00	0.00	0.00		
	300.00	0.00	125.00	300.00	0.00	0.00	0.00	0.00		
	400.00 500.00	0.00 0.00	125.00 125.00	400.00 500.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00		
	600.00	0.00	125.00	600.00	0.00	0.00	0.00	0.00		
	700.00	0.00	125.00	700.00	0.00	0.00	0.00	0.00		
	800.00	0.00	125.00	800.00	0.00	0.00	0.00	0.00		
	900.00	0.00	125.00	900.00	0.00	0.00	0.00	0.00		
	1000.00 1100.00	0.00 0.00	125.00 125.00	1000.00 1100.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00		
	1200.00	0.00	125.00	1200.00	0.00	0.00	0.00	0.00		
	1300.00	0.00	125.00	1300.00	0.00	0.00	0.00	0.00		
	1400.00	0.00	125.00	1400.00	0.00	0.00	0.00	0.00		
	1500.00	0.00	125.00	1500.00	0.00	0.00	0.00	0.00		
	1600.00 1630.00	0.00	125.00 125.00	1600.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	Pustlor	
	1630.00	0.00 0.00	125.00	1630.00 1700.00	0.00 0.00	0.00	0.00	0.00	Rustler	
	1800.00	0.00	125.00	1800.00	0.00	0.00	0.00	0.00		
	1900.00	0.00	125.00	1900.00	0.00	0.00	0.00	0.00		
	1938.00	0.00	125.00	1938.00	0.00	0.00	0.00	0.00	Salt	
	2000.00	0.00	125.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent	
	2100.00 2200.00	2.00 4.00	125.00 125.00	2099.98 2199.84	-1.00 -4.00	1.43 5.72	-0.97 -3.89	2.00 2.00		
	2300.00	6.00	125.00	2299.45	-9.00	12.86	-8.75	2.00		
	2400.00	8.00	125.00	2398.70	-15.99	22.84	-15.55	2.00		
	2500.00	10.00	125.00	2497.47	-24.96	35.65	-24.27	2.00	Hold Tangent	
	2600.00	10.00	125.00	2595.95	-34.92	49.88	-33.95	0.00		
	2700.00 2800.00	10.00 10.00	125.00 125.00	2694.43 2792.91	-44.88 -54.84	64.10 78.32	-43.64 -53.32	0.00 0.00		
	2900.00	10.00	125.00	2891.39	-64.80	92.55	-63.00	0.00		
	3000.00	10.00	125.00	2989.87	-74.76	106.77	-72.68	0.00		
	3100.00	10.00	125.00	3088.35	-84.72	121.00	-82.37	0.00		
	3200.00	10.00	125.00	3186.83	-94.68	135.22	-92.05	0.00		
	3300.00 3400.00	10.00 10.00	125.00 125.00	3285.31 3383.79	-104.64 -114.60	149.45 163.67	-101.73 -111.42	0.00 0.00		
	3500.00	10.00	125.00	3482.27	-124.56	177.90	-121.10	0.00		
	3600.00	10.00	125.00	3580.75	-134.52	192.12	-130.78	0.00		
	3689.41	10.00	125.00	3668.81	-143.43	204.84	-139.44	0.00	Drop to Vertical	
	3700.00	9.79	125.00	3679.24	-144.47	206.33	-140.45	2.00		
	3800.00 3900.00	7.79 5.79	125.00 125.00	3778.06 3877.35	-153.24 -160.02	218.84 228.53	-148.97 -155.56	2.00 2.00		
	3913.71	5.51	125.00	3891.00	-160.79	229.63	-156.32	2.00	Base of Salt	
	4000.00	3.79	125.00	3977.00	-164.80	235.36	-160.22	2.00		
	4100.00	1.79	125.00	4076.88	-167.59	239.35	-162.93	2.00		
	4101.13	1.77	125.00	4078.00	-167.61	239.38	-162.95	2.00	Cherry Canyon	
	4189.41 4200.00	0.00 0.00	125.00 359.79	4166.27 4176.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	2.00 0.00	Hold Vertical	
	4200.00	0.00	359.79	4176.86	-168.39	240.49 240.49	-163.71	0.00		
	4400.00	0.00	359.79	4376.86	-168.39	240.49	-163.71	0.00		
	4500.00	0.00	359.79	4476.86	-168.39	240.49	-163.71	0.00		
	4600.00	0.00	359.79	4576.86	-168.39	240.49	-163.71	0.00		
	4700.00 4800.00	0.00 0.00	359.79 359.79	4676.86 4776.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00		
	4800.00	0.00	359.79	4776.86	-168.39	240.49 240.49	-163.71	0.00		
	5000.00	0.00	359.79	4976.86	-168.39	240.49	-163.71	0.00		
	5100.00	0.00	359.79	5076.86	-168.39	240.49	-163.71	0.00		
	5200.00	0.00	359.79	5176.86	-168.39	240.49	-163.71	0.00		
	5300.00	0.00	359.79	5276.86	-168.39	240.49	-163.71	0.00		
	5400.00 5500.00	0.00 0.00	359.79 359.79	5376.86 5476.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00		
	5600.00	0.00	359.79	5576.86	-168.39	240.49 240.49	-163.71	0.00		
	5700.00	0.00	359.79	5676.86	-168.39	240.49	-163.71	0.00		
	5800.00	0.00	359.79	5776.86	-168.39	240.49	-163.71	0.00		
	5900.00	0.00	359.79	5876.86	-168.39	240.49	-163.71	0.00		
	6000.00 6100.00	0.00	359.79 359.79	5976.86 6076.86	-168.39 -168.39	240.49	-163.71 -163.71	0.00 0.00		
	6100.00 6200.00	0.00 0.00	359.79 359.79	6076.86 6176.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00		
	6300.00	0.00	359.79	6276.86	-168.39	240.49	-163.71	0.00		

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devon		County:		HBRED 10-5 F	ED 820H				Datum: North American Datum 1927
		Wellbore:	Permit Plar						Ellipsoid: Clarke 1866
		Design:	Permit Plar	n #1					Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
	(ft) 6383.14	(°) 0.00	(°)	(ft)	(ft) -168.39	(ft)	(ft)	(°/100ft) 0.00	Brushy Canyon
	6400.00	0.00	359.79 359.79	6360.00 6376.86	-168.39	240.49 240.49	-163.71 -163.71	0.00	Brushy Canyon
	6500.00	0.00	359.79	6476.86	-168.39	240.49	-163.71	0.00	
	6600.00	0.00	359.79	6576.86	-168.39	240.49	-163.71	0.00	
	6700.00	0.00	359.79	6676.86	-168.39	240.49	-163.71	0.00	
	6800.00 6900.00	0.00 0.00	359.79 359.79	6776.86 6876.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	7000.00	0.00	359.79	6976.86	-168.39	240.49	-163.71	0.00	
	7100.00	0.00	359.79	7076.86	-168.39	240.49	-163.71	0.00	
	7200.00	0.00	359.79	7176.86	-168.39	240.49	-163.71	0.00	
	7300.00 7400.00	0.00 0.00	359.79 359.79	7276.86 7376.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	7500.00	0.00	359.79	7476.86	-168.39	240.49	-163.71	0.00	
	7600.00	0.00	359.79	7576.86	-168.39	240.49	-163.71	0.00	
	7700.00	0.00	359.79	7676.86	-168.39	240.49	-163.71	0.00	
	7800.00 7900.00	0.00 0.00	359.79 359.79	7776.86 7876.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	8000.00	0.00	359.79	7976.86	-168.39	240.49 240.49	-163.71	0.00	
	8058.14	0.00	359.79	8035.00	-168.39	240.49	-163.71	0.00	1st Bone Spring Lime
	8100.00	0.00	359.79	8076.86	-168.39	240.49	-163.71	0.00	
	8200.00 8300.00	0.00 0.00	359.79 359.79	8176.86 8276.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	8400.00	0.00	359.79	8376.86	-168.39	240.49	-163.71	0.00	
	8500.00	0.00	359.79	8476.86	-168.39	240.49	-163.71	0.00	
	8600.00	0.00	359.79	8576.86	-168.39	240.49	-163.71	0.00	
	8700.00 8800.00	0.00 0.00	359.79 359.79	8676.86 8776.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	8900.00	0.00	359.79	8876.86	-168.39	240.49	-163.71	0.00	
	9000.00	0.00	359.79	8976.86	-168.39	240.49	-163.71	0.00	
	9056.14	0.00	359.79	9033.00	-168.39	240.49	-163.71	0.00	Bone Spring 1st
	9100.00 9200.00	0.00 0.00	359.79 359.79	9076.86 9176.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	9300.00	0.00	359.79	9276.86	-168.39	240.49	-163.71	0.00	
	9400.00	0.00	359.79	9376.86	-168.39	240.49	-163.71	0.00	
	9500.00	0.00	359.79	9476.86	-168.39	240.49	-163.71	0.00	
	9600.00 9700.00	0.00 0.00	359.79 359.79	9576.86 9676.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	9706.14	0.00	359.79	9683.00	-168.39	240.49	-163.71	0.00	Bone Spring 2nd
	9800.00	0.00	359.79	9776.86	-168.39	240.49	-163.71	0.00	
	9900.00 10000.00	0.00	359.79 359.79	9876.86 9976.86	-168.39 -168.39	240.49	-163.71	0.00 0.00	
	10100.00	0.00 0.00	359.79	10076.86	-168.39	240.49 240.49	-163.71 -163.71	0.00	
	10200.00	0.00	359.79	10176.86	-168.39	240.49	-163.71	0.00	
	10300.00	0.00	359.79	10276.86	-168.39	240.49	-163.71	0.00	
	10400.00	0.00	359.79	10376.86	-168.39	240.49	-163.71	0.00	
	10500.00 10600.00	0.00 0.00	359.79 359.79	10476.86 10576.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	10700.00	0.00	359.79	10676.86	-168.39	240.49	-163.71	0.00	
	10800.00	0.00	359.79	10776.86	-168.39	240.49	-163.71	0.00	
	10900.00 10979.14	0.00 0.00	359.79 359.79	10876.86 10956.00	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	Bone Spring 3rd
	11000.00	0.00	359.79	10976.86	-168.39	240.49	-163.71	0.00	Some spring of a
	11100.00	0.00	359.79	11076.86	-168.39	240.49	-163.71	0.00	
	11200.00	0.00	359.79	11176.86	-168.39	240.49	-163.71	0.00	
	11300.00 11389.14	0.00 0.00	359.79 359.79	11276.86 11366.00	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	Wolfcamp / Point of Penetration
	11400.00	0.00	359.79	11376.86	-168.39	240.49	-163.71	0.00	
	11500.00	0.00	359.79	11476.86	-168.39	240.49	-163.71	0.00	
	11600.00	0.00	359.79	11576.86	-168.39	240.49	-163.71	0.00	
	11609.19 11700.00	0.00 9.08	359.79 359.79	11586.05 11676.48	-168.39 -161.21	240.49 240.46	-163.71 -156.53	0.00 10.00	КОР
	11800.00	19.08	359.79	11773.35	-136.91	240.48 240.37	-132.24	10.00	
	11900.00	29.08	359.79	11864.53	-96.16	240.23	-91.50	10.00	
	12000.00	39.08	359.79	11947.25	-40.20	240.02	-35.55	10.00	
	12100.00 12200.00	49.08 59.08	359.79 359.79	12019.00 12077.59	29.28 110.16	239.76 239.47	33.92 114.78	10.00 10.00	
	12200.00	69.08	359.79	12121.24	199.99	239.47	204.58	10.00	
	12400.00	79.08	359.79	12148.63	296.03	238.79	300.60	10.00	
	12500.00	89.08	359.79	12158.93	395.37	238.42	399.91	10.00	
	12506.44	89.73	359.79	12159.00	401.82	238.40	406.35	10.00	Landing Point

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on		County:		HBRED 10-3 F	ED 820H				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
	12600.00	89.73	359.79	12159.45	495.37	238.06	499.88	0.00	
	12700.00	89.73	359.79	12159.93	595.37	237.69	599.86	0.00	
	12800.00	89.73	359.79	12160.41	695.37	237.32	699.83	0.00	
	12900.00	89.73	359.79	12160.89	795.37	236.96	799.80	0.00	
	13000.00	89.73	359.79	12161.36	895.36	236.59	899.77	0.00	
	13100.00 13200.00	89.73 89.73	359.79 359.79	12161.84 12162.32	995.36 1095.36	236.22 235.85	999.75 1099.72	0.00 0.00	
	13300.00	89.73	359.79	12162.80	1195.36	235.49	1199.69	0.00	
	13400.00	89.73	359.79	12163.28	1295.36	235.12	1299.66	0.00	
	13500.00	89.73	359.79	12163.76	1395.36	234.75	1399.64	0.00	
	13600.00	89.73	359.79	12164.24	1495.35	234.39	1499.61	0.00	
	13700.00	89.73	359.79	12164.72	1595.35	234.02	1599.58	0.00	
	13800.00	89.73	359.79	12165.20	1695.35	233.65	1699.55	0.00	
	13900.00 14000.00	89.73 89.73	359.79 359.79	12165.68 12166.16	1795.35 1895.35	233.29 232.92	1799.53 1899.50	0.00 0.00	
	14000.00	89.73	359.79	12166.63	1995.34	232.92	1999.30	0.00	
	14200.00	89.73	359.79	12167.11	2095.34	232.18	2099.44	0.00	
	14300.00	89.73	359.79	12167.59	2195.34	231.82	2199.41	0.00	
	14400.00	89.73	359.79	12168.07	2295.34	231.45	2299.39	0.00	
	14500.00	89.73	359.79	12168.55	2395.34	231.08	2399.36	0.00	
	14600.00	89.73	359.79	12169.03	2495.34	230.72	2499.33	0.00	
	14700.00 14800.00	89.73 89.72	359.79	12169.51	2595.33	230.35	2599.30 2699.28	0.00 0.00	
	14800.00	89.73 89.73	359.79 359.79	12169.99 12170.47	2695.33 2795.33	229.98 229.62	2699.28	0.00	
	15000.00	89.73	359.79	12170.95	2895.33	229.25	2899.22	0.00	
	15100.00	89.73	359.79	12171.43	2995.33	228.88	2999.19	0.00	
	15200.00	89.73	359.79	12171.90	3095.32	228.51	3099.17	0.00	
	15300.00	89.73	359.79	12172.38	3195.32	228.15	3199.14	0.00	
	15400.00	89.73	359.79	12172.86	3295.32	227.78	3299.11	0.00	
	15500.00	89.73	359.79	12173.34	3395.32	227.41	3399.08	0.00	
	15600.00 15700.00	89.73 89.73	359.79 359.79	12173.82 12174.30	3495.32 3595.32	227.05 226.68	3499.06 3599.03	0.00 0.00	
	15800.00	89.73	359.79	12174.30	3695.32	226.88	3699.00	0.00	
	15900.00	89.73	359.79	12175.26	3795.31	225.94	3798.97	0.00	
	16000.00	89.73	359.79	12175.74	3895.31	225.58	3898.94	0.00	
	16100.00	89.73	359.79	12176.22	3995.31	225.21	3998.92	0.00	
	16200.00	89.73	359.79	12176.70	4095.31	224.84	4098.89	0.00	
	16300.00	89.73	359.79	12177.17	4195.30	224.48	4198.86	0.00	
	16400.00	89.73	359.79	12177.65	4295.30	224.11	4298.83	0.00	
	16500.00	89.73 89.72	359.79	12178.13	4395.30	223.74	4398.81	0.00	
	16600.00 16700.00	89.73 89.73	359.79 359.79	12178.61 12179.09	4495.30 4595.30	223.38 223.01	4498.78 4598.75	0.00 0.00	
	16800.00	89.73	359.79	12179.09	4695.30	222.64	4698.72	0.00	
	16900.00	89.73	359.79	12180.05	4795.29	222.27	4798.70	0.00	
	17000.00	89.73	359.79	12180.53	4895.29	221.91	4898.67	0.00	
	17100.00	89.73	359.79	12181.01	4995.29	221.54	4998.64	0.00	
	17200.00	89.73	359.79	12181.49	5095.29	221.17	5098.61	0.00	
	17300.00	89.73 89.72	359.79	12181.97	5195.29	220.81	5198.59	0.00	
	17400.00 17500.00	89.73 89.73	359.79 359.79	12182.45 12182.92	5295.28 5395.28	220.44 220.07	5298.56 5398.53	0.00 0.00	
	17600.00	89.73 89.73	359.79	12182.92	5395.28 5495.28	220.07 219.70	5398.53 5498.50	0.00	
	17700.00	89.73	359.79	12183.88	5595.28	219.34	5598.47	0.00	
	17800.00	89.73	359.79	12184.36	5695.28	218.97	5698.45	0.00	
	17900.00	89.73	359.79	12184.84	5795.28	218.60	5798.42	0.00	
	18000.00	89.73	359.79	12185.32	5895.27	218.24	5898.39	0.00	
	18100.00	89.73	359.79	12185.80	5995.27	217.87	5998.36	0.00	
	18200.00	89.73	359.79	12186.28	6095.27	217.50	6098.34	0.00	
	18300.00 18400.00	89.73 89.73	359.79 359.79	12186.76 12187.24	6195.27 6295.27	217.14 216.77	6198.31 6298.28	0.00 0.00	
	18400.00	89.73	359.79	12187.24	6395.26	216.77	6398.25	0.00	
	18600.00	89.73	359.79	12187.72	6495.26	216.03	6498.23	0.00	
	18700.00	89.73	359.79	12188.67	6595.26	215.67	6598.20	0.00	
	18800.00	89.73	359.79	12189.15	6695.26	215.30	6698.17	0.00	
	18900.00	89.73	359.79	12189.63	6795.26	214.93	6798.14	0.00	
	19000.00	89.73	359.79	12190.11	6895.26	214.57	6898.12	0.00	
	19100.00	89.73	359.79	12190.59	6995.25	214.20	6998.09	0.00	
	19200.00 19300.00	89.73 89.73	359.79 359.79	12191.07 12191.55	7095.25 7195.25	213.83 213.47	7098.06 7198.03	0.00 0.00	
								0.00	
	19400.00	89.73	359.79	12192.03	7295.25	213.10	7298.01		

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	County: Wellbore:			FED 820H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	VS (ft)	DLS (°/100ft)	Comment
(ft) 19600.00	(°) 89.73	(°) 359.79	(ft) 12192.99	(ft) 7495.24	(ft) 212.36	7497.95	0.00	
19700.00	89.73	359.79	12192.99	7595.24	212.30	7597.92	0.00	
19800.00	89.73	359.79	12193.40	7695.24	212.00	7697.89	0.00	
19900.00	89.73	359.79	12193.94	7795.24	211.03	7797.87	0.00	
20000.00	89.73	359.79	12194.42	7895.24	210.90	7897.84	0.00	
20000.00	89.73	359.79	12194.90	7895.24 7995.24	210.90	7997.84	0.00	
20200.00	89.73	359.79	12195.86	8095.24	210.55	8097.78	0.00	
20200.00	89.73 89.73	359.79	12195.86	8095.23 8195.23	209.79	8197.76	0.00	
20300.00	89.73 89.73	359.79	12196.34	8295.23	209.79	8197.76	0.00	
20400.00	89.73 89.73	359.79	12196.82	8295.23 8395.23	209.43	8297.73	0.00	
20500.00	89.73	359.79	12197.30	8495.23	209.08	8397.70 8497.67	0.00	
20800.00	89.73			8595.22	208.89			
		359.79	12198.26	8595.22 8695.22		8597.65	0.00	
20800.00	89.73	359.79	12198.73		207.96	8697.62	0.00	
20900.00	89.73	359.79	12199.21	8795.22	207.59	8797.59	0.00	
21000.00	89.73	359.79	12199.69	8895.22	207.23	8897.56	0.00	
21100.00	89.73	359.79	12200.17	8995.22	206.86	8997.54	0.00	
21200.00	89.73	359.79	12200.65	9095.22	206.49	9097.51	0.00	
21300.00	89.73	359.79	12201.13	9195.21	206.12	9197.48	0.00	
21400.00	89.73	359.79	12201.61	9295.21	205.76	9297.45	0.00	
21500.00	89.73	359.79	12202.09	9395.21	205.39	9397.42	0.00	
21600.00	89.73	359.79	12202.57	9495.21	205.02	9497.40	0.00	
21700.00	89.73	359.79	12203.05	9595.21	204.66	9597.37	0.00	
21800.00	89.73	359.79	12203.53	9695.20	204.29	9697.34	0.00	
21900.00	89.73	359.79	12204.00	9795.20	203.92	9797.31	0.00	
22000.00	89.73	359.79	12204.48	9895.20	203.55	9897.29	0.00	
22100.00	89.73	359.79	12204.96	9995.20	203.19	9997.26	0.00	
22200.00	89.73	359.79	12205.44	10095.20	202.82	10097.23	0.00	
22300.00	89.73	359.79	12205.92	10195.20	202.45	10197.20	0.00	
22400.00	89.73	359.79	12206.40	10295.19	202.09	10297.18	0.00	
22447.99	89.73	359.79	12206.63	10343.18	201.91	10345.15	0.00	exit
22500.00	89.73	359.79	12206.88	10395.19	201.72	10397.15	0.00	
22527.99	89.73	359.79	12207.00	10423.18	201.67	10425.13	0.00	BHL

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1. Geologic Formations

TVD of target	12207	Pilot hole depth	N/A
MD at TD:	22528	Deepest expected fresh water	

Basin

Dasin			
	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1630		
Salt	1938		
Base of Salt	3891		
Cherry Canyon	4078		
Brushy Canyon	6360		
1st Bone Spring Lime	8035		
Bone Spring 1st	9033		
Bone Spring 2nd	9683		
Bone Spring 3rd	10956		
Wolfcamp	11366		

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

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	45 1/2	J-55	BTC SCC	0	1125	0	1125
9 7/8	8 5/8	32	P110-ICY	441	0	11509	0	11509
7 7/8	5 1/2	20	P110EC	DWC / C-IS+	0	22528	0	12207

2. Casing Program (Primary Design)

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

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	450	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	441	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	594	6383	13.2	1.44	Tail: Class H / C + additives
Production	119	9609	9	3.27	Lead: Class H /C + additives
Froduction	1445	11609	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	T	уре	~	Tested to:
			Annular		X	50% of rated working pressure
Int 1	13-5/8"	5M	Blind	d Ram	Х	
Int 1	15-5/0	5101	Pipe	Pipe Ram Double Ram		5M
			Doub			5111
			Other*			
			Annul	Annular (5M) X	Х	100% of rated working pressure
Production	13-5/8"	10M	Blind Ram		Х	
Troduction	15-5/0	1011	Pipe Ram			10M
				Double Ram		1011
			Other*			
			Annul	ar (5M)		
			Blind	d Ram		
			Pipe Ram Double Ram			
			Other*			
*	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.					
Y A variance is requested to a	A variance is requested to run a 5 M annular on a 10M system					

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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					
Х	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
Х	CBL	Production casing
	Mud log	Intermediate shoe to TD
	PEX	

7. Drilling Conditions

Condition	Specfiy what type and where?		
BH pressure at deepest TVD	6665		
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 concentrationsgreater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encounteredmeasured values and formations will be provided to the BLM.NH2S 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 regulations).

 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe

Call and the F	21				ls & Na ⁱ	tural	ew Mexico Resources Depa ION DIVISI			Rev	ised July, 2024
Submit Electronically Via OCD Permitting						Submittal	X Initial Submittal				
									Type:	Amended Repor	t
										As Drilled	
					ELL LOC		ON INFORMATIO	N			
API N	lumber		Pool Cod	e 98220		PO	ool Name PURPLF	SAGE	VOLECA	AMP (GAS)	
Prope	rty Code		Property						i o El el	Well Number	
			Operator	Name	THOR	OUGH	BRED 10-3 FED			820H Ground Level	Flevetion
	6137		operator		I ENERG	Y PR	ODUCTION COMPA	ANY, L.P.		3244.3'	hevation
Surfac	ce Owner:	□State □	Fee 🗆 Tril	bal 🛛 Fee	leral		Mineral Owner:	□State	□Fee □'	Tribal 🖾 Federal	
							.				
UL	Section	Township	Range	Lot	Ft. fror		ce Location Ft. from E/W	Latitude		Longitude	County
N	10	26-S	31-E		220'	-	1610' W	32.050		103.769457	EDDY
							Hole Location		-		
UL	Section	Township	Range	Lot	Ft. from			Latitude		Longitude	County
С	3	26-S	31-E		20'	N	1850' W	32.079	384	103.768630	EDDY
	1	I	I	1	I		1	I			
Dedicat	ted Acres	Infill or Def	ining Well	Defining	Well API	Overla	apping Spacing Uni	t (Y/N)	Consolid	lation Code	
32	20.00	INFIL	L	30-015-	46506		Ν			С	
Order	Numbers	NSP #2123	, PENDIN	IG NSL		Well s	setbacks are under	Common	Ownersh	nip: □Yes ⊠No	
					Kic	k Off	Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from		`, ,	Latitude		Longitude	County
Ν	10	26-S	31-E		50'	S	1850' W	32.050	269	103.768683	EDDY
					Fire	st Tak	e Point (FTP)		I		
UL	Section	Township	Range	Lot	Ft. from	n N/S	· · ·	Latitude		Longitude	County
Ν	10	26-S	31-E		100'	S	1850'W	32.050	406	103.768683	EDDY
	•				Las	st Tak	e Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from		· ·	Latitude		Longitude	County
С	3	26-S	31-E		100'	Ν	1850' W	32.079	164	103.768631	EDDY
		077.10	-		d	·		4 - 3 - 37 4 2	1	······	
Unitized	d Area or Are	ea of Uniform	Interest N		Spac	eing U	nit Type Horizon V	tal Verti		Ground Floor Ele N/A	vation:
							A			1.0/24	
OPERATOR CERTIFICATIONS 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 mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. SURVEYOR CERTIFICATIONS 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. WEX				and							
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 interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.				l ell's the	ignature and Seal	of Profe	ssional G	PROFILE	CO NO SUR		
	Brown		Date				Agaavaro anu Deal	51 11016	JIVHAI K	Surveyor ^{3/ONAL}	
	ed Name					C	ertificate Number	Date of	Survey		
	brown@dvn 1 Address	.com					23261	02/20	25		

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.



R	U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Reports
	Well Name: THOROUGHBRED 10-3 FED COM	Well Location: T26S / R31E / SEC 10 / SESW / 32.0507341 / -103.7694589	County or Parish/State: EDDY / NM
	Well Number: 831H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM120904	Unit or CA Name:	Unit or CA Number: NMNM143512
	US Well Number:	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

Notice of Intent

Sundry ID: 2857826

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/12/2025

Date proposed operation will begin: 06/13/2025

Type of Action: APD Change Time Sundry Submitted: 12:03

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests a Well Name, BHL, dedicated acreage and drill plan change for the subject well (API ID 10400101323). Please see revised C102, drill plan, and directional plan attached. Permitted Well Name: Thoroughbred 10-3 Fed Com 831H Proposed Well Name: Thoroughbred 10-3 Fed 820H Permitted BHL: UL L, 2646 FSL, 990 FWL, Sec 3, T 26S, R 31E Proposed BHL: UL C, 20 FNL, 1850 FWL, Sec 3, T 26S, R 31E Permitted Acreage: 240.00 Proposed Acreage: 320.00

NOI Attachments

Procedure Description

5.5_20lb_P110EC_DWC_C_IS_PLUS_20250612120219.pdf

8.625_32lb_P110_ICY_20250612120203.pdf

10.75_45.5lb_J55_BTC_20250612120144.pdf

THOROUGHBRED_10_3_FED_820H_Directional_Plan_06_11_25_20250612120050.pdf

THOROUGHBRED_10_3_FED_820H_6_11_25_20250612120036.pdf

WA022471636_THOROUGHBRED_10_3_FED_820H_SIGNED_20250612120022.pdf

R	FED COM	Well Location: T26S / R31E / SEC 10 / SESW / 32.0507341 / -103.7694589	County or Parish/State: EDDY of 55 NM
	Well Number: 831H	Type of Well: OIL WELL	Allottee or Tribe Name:
	Lease Number: NMNM120904	Unit or CA Name:	Unit or CA Number: NMNM143512
	US Well Number:	Operator: DEVON ENERGY PRODUCTION COMPANY LP	

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: JUN 12, 2025 12:02 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

State:

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: Phone: Email address:

APPROVED by Long Vo Petroleum Engineer Carlsbad Field Office 575-988-50402 LVO@BLM.GOV

Zip:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Devon Energy Production Company LP 🝷		
	Section 10, T.26 S., R.31 E., NMPM		
COUNTY:	Eddy County, New Mexico 🗸		

WELL NAME & NO.:	Thoroughbred 10-3 Fed 820H
ATS/API ID:	ATS-25-10
APD ID:	10400101323
Sundry ID:	2857826

COA

•

H2S	No 🔻		
Potash	None	None	
Cave/Karst Potential	Medium 💌		
Cave/Karst Potential	Critical		
Variance	C None	🖸 Flex Hose	C Other
Wellhead	Conventional and Multibowl	•	
Other	□ 4 String □ 5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	C Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter	Primary Cement Squeeze None
Special Requirements	U Water Disposal/Injection	COM	Unit Unit
Special Requirements	□ Batch Sundry	Waste Prevention None	
Special Requirements Variance	 BOPE Break Testing Offline BOPE Testing 	□ Offline Cementing	Casing Clearance

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 **43 CFR part 3170 Subpart 3176**, 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 **10-3/4** inch surface casing shall be set at approximately **1125 feet** (a minimum of 70 feet 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 **13 1/2** 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 <u>8</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the 8-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• 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.

Option 2:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6360'.
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 441 sxs Class C) Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down **10-3/4**" X **8-5/8**" annulus after primary cementing stage. <u>Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the **8-5/8**" casing to surface after the second stage <u>BH to verify TOC.</u></u>

Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out. Operator must run one CBL per Well Pad. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

If cement does not reach surface, the next casing string must come to surface.

Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 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.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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 **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 **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 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

Commercial Well Determination

- A commercial well determination shall be submitted after production has been established for at least six months if the well penetrate a federal exploratory unit acreage, in addition the unit number and participating area number shall be on the well sign when the well is determined to be a Unit well.
- If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County
 EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
 BLM NM CEO DrillingNotifications@BLM GOV

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **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.

- <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least <u>8 hours</u>. 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. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing 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
- 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) 6/17/2025

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eceiveu by OCD: 0/1//2023 11:06:39 FM				Fuge 55 of .
Form 3160-5 (June 2019)			FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021 5. Lease Serial No.	
Do not use	DRY NOTICES AND REP this form for proposals well. Use Form 3160-3 (A		6. If Indian, Allottee or Tribe N	ame
	MIT IN TRIPLICATE - Other inst	7. If Unit of CA/Agreement, Name and/or No.		
1. Type of Well Gas Well Other			8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address 3b. Phone N		3b. Phone No. <i>(include area code)</i>	10. Field and Pool or Explorato	bry Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)			11. Country or Parish, State	
1	2. CHECK THE APPROPRIATE I	BOX(ES) TO INDICATE NATURE (OF NOTICE, REPORT OR OTH	ER DATA
TYPE OF SUBMISSIO	Ň	TYPE OF ACTION		
Notice of Intent	Acidize	Deepen [Hydraulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair Change Plans	New Construction Plug and Abandon	Recomplete Temporarily Abandon	Other
Final Abandonment Not	ice Convert to Injection	n Plug Back	Water Disposal	
the proposal is to deepen di the Bond under which the v completion of the involved	rectionally or recomplete horizonta vork will be perfonned or provide the operations. If the operation results nent Notices must be filed only after	lly, give subsurface locations and me ne Bond No. on file with BLM/BIA. 1 in a multiple completion or recomple	asured and true vertical depths of Required subsequent reports mus tion in a new interval, a Form 31	k and approximate duration thereof. If f all pertinent markers and zones. Attach t be filed within 30 days following 60-4 must be filed once testing has been he operator has detennined that the site

14. I hereby certify that the foregoing is true and correct. Name (<i>Printed/Typed</i>)		
	Title	
Signature	Date	
THE SPACE FOR FEDE	RAL OR STATE OF	ICE USE
Approved by		
	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject lea which would entitle the applicant to conduct operations thereon.		
Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any any false, fictitious or fraudulent statements or representations as to any matter within		fully to make to any department or agency of the United States

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
Additional Information

Location of Well

0. SHL: SESW / 220 FSL / 1610 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0507341 / LONG: -103.7694589 (TVD: 0 feet, MD: 0 feet) PPP: SWSW / 100 FSL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0504012 / LONG: -103.7714597 (TVD: 11366 feet, MD: 11420 feet) PPP: NWSW / 1479 FSL / 989 FWL / TWSP: 26S / RANGE: 31E / SECTION: 10 / LAT: 32.0541934 / LONG: -103.7714558 (TVD: 12373 feet, MD: 13600 feet) BHL: NWSW / 2646 FSL / 990 FWL / TWSP: 26S / RANGE: 31E / SECTION: 3 / LAT: 32.0720544 / LONG: -103.7714272 (TVD: 12393 feet, MD: 20098 feet)



Connection Data Sheet

OD (in.)	WEIGHT (lbs./ft.)	WALL (in.)	GRADE	DRIFT (in.)	RBW%	CONNECTION
5.500	Nominal: 20.00 Plain End: 19.83	0.361	VST P110 EC	4.653	87.5	DWC/C-IS PLUS

PIPE PROPERTIES

Nominal OD	5.500	in.
Nominal ID	4.778	in.
Nominal Area	5.828	sq.in.
Grade Type	API 5CT; Vallourec Sourced Material Only	
Min. Yield Strength	125	ksi
Max. Yield Strength	140	ksi
Min. Tensile Strength	135	ksi
Yield Strength	729	klb
Ultimate Strength	787	klb
Min. Internal Yield	14,360	psi
High Collapse	12,090	psi

CONNECTION PROPERTIES

Semi-Premium T&C	
6.300	in.
4.778	in.
4.125	in.
9.250	in.
5.828	sq.in.
100.0%	of pipe
	6.300 4.778 4.125 9.250 5.828 100.0% 100.0%

CONNECTION PERFORMANCES 729 klb Yield Strength Parting Load 787 klb **Compression Rating** 729 klb Min. Internal Yield 14,360 psi *High Collapse* 12,090 psi Maximum Uniaxial Bend Rating 104.2 °/100 ft Ref String Length w 1.4 Design Factor 26,040 ft

FIELD TORQUE VALUES		
Min. Make-up Torque	16,600	ft.lbs
Opti. Make-up Torque	17,850	ft.lbs
Max. Make-up Torque	19,100	ft.lbs
Min. Shoulder Torque	1,660	ft.lbs
Max. Shoulder Torque	13,280	ft.lbs
Max. Delta Turn	0.200	Turns
+Max Operational Torque	24,300	ft.lbs
+Maximum Torsional Value (MTV)	26,730	ft.lbs

+Maximum Operational Torque and Maximum Torsional Value Only Valid with Vallourec P110EC Material

For detailed information on performance properties, refer to DWC Connection Data Notes on following page(s).

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

All information is provided by VAM USA or its affiliates at user's sole risk, without liability for loss, damage or injury resulting from the use thereof; and on an "AS IS" basis without warranty or representation of any kind, whether express or implied, including without limitation any warranty of merchantability, fitness for purpose or completeness. This document and its contents are subject to change without notice. In no event shall VAM USA or its affiliates be responsible for any indirect, special, incidental, punitive, exemplary or consequential loss or damage (including without limitation, loss of use, loss of bargain, loss of revenue, profit or anticipated profit) however caused or arising, and whether such losses or damages were foreseeable or VAM USA or its affiliates was advised of the possibility of such damages.

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VAM USA 2107 CityWest Boulevard Suite 1300 Houston, TX 77042 Phone: 713-479-3200 Fax: 713-479-3234 VAM USA Sales E-mail: <u>VAMUSAsales@vam-usa.com</u> Tech Support E-mail: <u>tech.support@vam-usa.com</u>

DWC Connection Data Notes:

- 1. DWC connections are available with a seal ring (SR) option.
- 2. All standard DWC/C connections are interchangeable for a given pipe OD. DWC connections are interchangeable with DWC/C-SR connections of the same OD and wall.
- 3. Connection performance properties are based on nominal pipe body and connection dimensions.
- 4. DWC connection internal and external pressure resistance is calculated using the API rating for buttress connections. API Internal pressure resistance is calculated from formulas 31, 32, and 35 in the API Bulletin 5C3.
- 5. DWC joint strength is the minimum pipe body yield strength multiplied by the connection critical area.
- 6. API joint strength is for reference only. It is calculated from formulas 42 and 43 in the API Bulletin 5C3.
- 7. Bending efficiency is equal to the compression efficiency.
- 8. The torque values listed are recommended. The actual torque required may be affected by field conditions such as temperature, thread compound, speed of make-up, weather conditions, etc.
- 9. Connection yield torque is not to be exceeded.
- Reference string length is calculated by dividing the joint strength by both the nominal weight in air and a design factor (DF) of 1.4. These values are offered for reference only and do not include load factors such as bending, buoyancy, temperature, load dynamics, etc.
- 11. DWC connections will accommodate API standard drift diameters.
- 12. DWC/C family of connections are compatible with API Buttress BTC connections. Please contact tech.support@vam-usa.com for details on connection ratings and make-up.

Connection specifications within the control of VAM USA were correct as of the date printed. Specifications are subject to change without notice. Certain connection specifications are dependent on the mechanical properties of the pipe. Mechanical properties of mill proprietary pipe grades were obtained from mill publications and are subject to change. Properties of mill proprietary grades should be confirmed with the mill. Users are advised to obtain current connection specifications and verify pipe mechanical properties for each application.

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Tenaris

TenarisHydril Wedge 441[®] - AD



Grade: P110-ICY	Grade: P110-ICY
Body: White	1st Band: White
1st Band: Pale Green	2nd Band: Pale Green
2nd Band: -	3rd Band: Pale Green
3rd Band: -	4th Band: -
	5th Band: -
	6th Band: -

Pipe Body

Outside Diameter	8.625 in.	Wall Thickness	0.352 in.	Grade	P110-ICY
Min. Wall Thickness	90.00 %	Pipe Body Drift	Alternative Drift	Туре	Casing
Connection OD Option	REGULAR				

Pipe Body Data

No

No

Dr

No

Geometry			
lominal OD	8.625 in.	Wall Thickness	0.352 in.
lominal Weight	32.00 lb/ft	Plain End Weight	31.13 lb/ft
rift	7.875 in.	OD Tolerance	API
lominal ID	7.921 in.		

Destau

Performance

Coupling

Body Yield Strength	1144 x1000 lb
Min. Internal Yield Pressure	9180 psi
SMYS	125,000 psi
Collapse Pressure	4000 psi

Connection Data

Geometry	
Connection OD	8.889 in.
Coupling Length	8.862 in.
Connection ID	7.921 in.
Make-up Loss	3.744 in.
Threads per inch	3.43
Connection OD Option	Regular

Performance	
Tension Efficiency	81.20 %
Joint Yield Strength	929 x1000 lb
Internal Pressure Capacity	9180 psi
Compression Efficiency	81.20 %
Compression Strength	929 x1000 lb
Max. Allowable Bending	53.59 °/100 ft
External Pressure Capacity	4000 psi

Make-Up Torques	
Minimum	23,000 ft-lb
Optimum	24,000 ft-lb
Maximum	27,000 ft-Ib
Operation Limit Torques	
Operating Torque	59,000 ft-Ib
Yield Torque	70,000 ft-Ib
Buck-On	
Minimum	27,000 ft-Ib
Maximum	29,000 ft-Ib

Notes

For the lastest performance data, always visit our website: www.tenaris.com For further information on concepts indicated in this datasheet, download the Datasheet Manual from www.tenaris.com

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



devon		Well:	THOROUG	HBRED 10-3 F	ED 820H				Geodetic System: US State Plane 1983
uevuii		County:	Eddy Permit Plan						Datum: North American Datum 1927 Ellipsoid: Clarke 1866
			Permit Plan						Zone: 3001 - NM East (NAD83)
	MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
-	(ft) 0.00	(°) 0.00	(°) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°/100ft) 0.00	SHL
	100.00	0.00	125.00	100.00	0.00	0.00	0.00	0.00	SHE
	200.00	0.00	125.00	200.00	0.00	0.00	0.00	0.00	
	300.00	0.00	125.00	300.00	0.00	0.00	0.00	0.00	
	400.00	0.00	125.00	400.00	0.00	0.00	0.00	0.00	
	500.00 600.00	0.00 0.00	125.00 125.00	500.00 600.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	700.00	0.00	125.00	700.00	0.00	0.00	0.00	0.00	
	800.00	0.00	125.00	800.00	0.00	0.00	0.00	0.00	
	900.00	0.00	125.00	900.00	0.00	0.00	0.00	0.00	
	1000.00	0.00	125.00	1000.00	0.00	0.00	0.00	0.00	
	1100.00 1200.00	0.00 0.00	125.00 125.00	1100.00 1200.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1300.00	0.00	125.00	1200.00	0.00	0.00	0.00	0.00	
	1400.00	0.00	125.00	1400.00	0.00	0.00	0.00	0.00	
	1500.00	0.00	125.00	1500.00	0.00	0.00	0.00	0.00	
	1600.00	0.00	125.00	1600.00	0.00	0.00	0.00	0.00	
	1630.00	0.00	125.00	1630.00	0.00	0.00	0.00	0.00	Rustler
	1700.00 1800.00	0.00 0.00	125.00 125.00	1700.00 1800.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	
	1900.00	0.00	125.00	1900.00	0.00	0.00	0.00	0.00	
	1938.00	0.00	125.00	1938.00	0.00	0.00	0.00	0.00	Salt
	2000.00	0.00	125.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
	2100.00	2.00	125.00	2099.98	-1.00	1.43	-0.97	2.00	
	2200.00 2300.00	4.00 6.00	125.00 125.00	2199.84 2299.45	-4.00	5.72	-3.89	2.00 2.00	
	2400.00	8.00	125.00	2299.45	-9.00 -15.99	12.86 22.84	-8.75 -15.55	2.00	
	2500.00	10.00	125.00	2497.47	-24.96	35.65	-24.27	2.00	Hold Tangent
	2600.00	10.00	125.00	2595.95	-34.92	49.88	-33.95	0.00	5
	2700.00	10.00	125.00	2694.43	-44.88	64.10	-43.64	0.00	
	2800.00	10.00	125.00	2792.91	-54.84	78.32	-53.32	0.00	
	2900.00 3000.00	10.00 10.00	125.00 125.00	2891.39 2989.87	-64.80 -74.76	92.55 106.77	-63.00 -72.68	0.00 0.00	
	3100.00	10.00	125.00	3088.35	-84.72	121.00	-82.37	0.00	
	3200.00	10.00	125.00	3186.83	-94.68	135.22	-92.05	0.00	
	3300.00	10.00	125.00	3285.31	-104.64	149.45	-101.73	0.00	
	3400.00	10.00	125.00	3383.79	-114.60	163.67	-111.42	0.00	
	3500.00	10.00	125.00	3482.27	-124.56	177.90	-121.10	0.00	
	3600.00 3689.41	10.00 10.00	125.00 125.00	3580.75 3668.81	-134.52 -143.43	192.12 204.84	-130.78 -139.44	0.00 0.00	Drop to Vertical
	3700.00	9.79	125.00	3679.24	-144.47	206.33	-140.45	2.00	
	3800.00	7.79	125.00	3778.06	-153.24	218.84	-148.97	2.00	
	3900.00	5.79	125.00	3877.35	-160.02	228.53	-155.56	2.00	
	3913.71	5.51	125.00	3891.00	-160.79	229.63	-156.32	2.00	Base of Salt
	4000.00 4100.00	3.79 1.79	125.00 125.00	3977.00 4076.88	-164.80 -167.59	235.36 239.35	-160.22 -162.93	2.00 2.00	
	4101.13	1.75	125.00	4078.00	-167.61	239.33	-162.95	2.00	Cherry Canyon
	4189.41	0.00	125.00	4166.27	-168.39	240.49	-163.71	2.00	Hold Vertical
	4200.00	0.00	359.79	4176.86	-168.39	240.49	-163.71	0.00	
	4300.00	0.00	359.79	4276.86	-168.39	240.49	-163.71	0.00	
	4400.00	0.00	359.79	4376.86	-168.39	240.49	-163.71	0.00	
	4500.00 4600.00	0.00 0.00	359.79 359.79	4476.86 4576.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	4700.00	0.00	359.79	4676.86	-168.39	240.49	-163.71	0.00	
	4800.00	0.00	359.79	4776.86	-168.39	240.49	-163.71	0.00	
	4900.00	0.00	359.79	4876.86	-168.39	240.49	-163.71	0.00	
	5000.00	0.00	359.79	4976.86	-168.39	240.49	-163.71	0.00	
	5100.00 5200.00	0.00 0.00	359.79 359.79	5076.86 5176.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	5200.00 5300.00	0.00	359.79 359.79	5176.86	-168.39 -168.39	240.49 240.49	-163.71	0.00	
	5400.00	0.00	359.79	5376.86	-168.39	240.49	-163.71	0.00	
	5500.00	0.00	359.79	5476.86	-168.39	240.49	-163.71	0.00	
	5600.00	0.00	359.79	5576.86	-168.39	240.49	-163.71	0.00	
	5700.00	0.00	359.79	5676.86	-168.39	240.49	-163.71	0.00	
	5800.00	0.00	359.79	5776.86	-168.39	240.49	-163.71	0.00	
	5900.00 6000.00	0.00 0.00	359.79 359.79	5876.86 5976.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	6100.00	0.00	359.79 359.79	6076.86	-168.39	240.49 240.49	-163.71	0.00	
	6200.00	0.00	359.79	6176.86	-168.39	240.49	-163.71	0.00	
	6300.00	0.00	359.79	6276.86	-168.39	240.49	-163.71	0.00	

devon		County:	Eddy	HBRED 10-3 F	ED 820H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927
			Permit Plan Permit Plan						Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
-	6383.14	0.00	359.79	6360.00	-168.39	240.49	-163.71	0.00	Brushy Canyon
	6400.00	0.00	359.79	6376.86	-168.39	240.49	-163.71	0.00	
	6500.00	0.00	359.79	6476.86	-168.39	240.49	-163.71	0.00	
	6600.00 6700.00	0.00 0.00	359.79 359.79	6576.86 6676.86	-168.39 -168.39	240.49	-163.71 -163.71	0.00 0.00	
	6800.00	0.00	359.79	6776.86	-168.39	240.49 240.49	-163.71	0.00	
	6900.00	0.00	359.79	6876.86	-168.39	240.49	-163.71	0.00	
	7000.00	0.00	359.79	6976.86	-168.39	240.49	-163.71	0.00	
	7100.00	0.00	359.79	7076.86	-168.39	240.49	-163.71	0.00	
	7200.00	0.00	359.79	7176.86	-168.39	240.49	-163.71	0.00	
	7300.00 7400.00	0.00 0.00	359.79 359.79	7276.86 7376.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	7400.00	0.00	359.79	7476.86	-168.39	240.49 240.49	-163.71	0.00	
	7600.00	0.00	359.79	7576.86	-168.39	240.49	-163.71	0.00	
	7700.00	0.00	359.79	7676.86	-168.39	240.49	-163.71	0.00	
	7800.00	0.00	359.79	7776.86	-168.39	240.49	-163.71	0.00	
	7900.00	0.00	359.79	7876.86	-168.39	240.49	-163.71	0.00	
	8000.00 8058.14	0.00 0.00	359.79 359.79	7976.86 8035.00	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	1st Bone Spring Lime
	8100.00	0.00	359.79	8076.86	-168.39	240.49	-163.71	0.00	The bone spring time
	8200.00	0.00	359.79	8176.86	-168.39	240.49	-163.71	0.00	
	8300.00	0.00	359.79	8276.86	-168.39	240.49	-163.71	0.00	
	8400.00	0.00	359.79	8376.86	-168.39	240.49	-163.71	0.00	
	8500.00 8600.00	0.00 0.00	359.79 359.79	8476.86 8576.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	8700.00	0.00	359.79	8676.86	-168.39	240.49	-163.71	0.00	
	8800.00	0.00	359.79	8776.86	-168.39	240.49	-163.71	0.00	
	8900.00	0.00	359.79	8876.86	-168.39	240.49	-163.71	0.00	
	9000.00	0.00	359.79	8976.86	-168.39	240.49	-163.71	0.00	
	9056.14 9100.00	0.00 0.00	359.79 359.79	9033.00 9076.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	Bone Spring 1st
	9200.00	0.00	359.79	9176.86	-168.39	240.49	-163.71	0.00	
	9300.00	0.00	359.79	9276.86	-168.39	240.49	-163.71	0.00	
	9400.00	0.00	359.79	9376.86	-168.39	240.49	-163.71	0.00	
	9500.00	0.00	359.79	9476.86	-168.39	240.49	-163.71	0.00	
	9600.00 9700.00	0.00 0.00	359.79 359.79	9576.86 9676.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	9706.14	0.00	359.79	9683.00	-168.39	240.49	-163.71	0.00	Bone Spring 2nd
	9800.00	0.00	359.79	9776.86	-168.39	240.49	-163.71	0.00	
	9900.00	0.00	359.79	9876.86	-168.39	240.49	-163.71	0.00	
	10000.00	0.00	359.79	9976.86	-168.39	240.49	-163.71	0.00	
	10100.00 10200.00	0.00 0.00	359.79 359.79	10076.86 10176.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	10300.00	0.00	359.79	10276.86	-168.39	240.49	-163.71	0.00	
	10400.00	0.00	359.79	10376.86	-168.39	240.49	-163.71	0.00	
	10500.00	0.00	359.79	10476.86	-168.39	240.49	-163.71	0.00	
	10600.00	0.00	359.79	10576.86	-168.39	240.49	-163.71	0.00	
	10700.00 10800.00	0.00 0.00	359.79 359.79	10676.86 10776.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	10900.00	0.00	359.79	10876.86	-168.39	240.49	-163.71	0.00	
	10979.14	0.00	359.79	10956.00	-168.39	240.49	-163.71	0.00	Bone Spring 3rd
	11000.00	0.00	359.79	10976.86	-168.39	240.49	-163.71	0.00	
	11100.00	0.00	359.79	11076.86	-168.39	240.49	-163.71	0.00	
	11200.00 11300.00	0.00 0.00	359.79 359.79	11176.86 11276.86	-168.39 -168.39	240.49 240.49	-163.71 -163.71	0.00 0.00	
	11389.14	0.00	359.79	11366.00	-168.39	240.49	-163.71	0.00	Wolfcamp / Point of Penetration
	11400.00	0.00	359.79	11376.86	-168.39	240.49	-163.71	0.00	
	11500.00	0.00	359.79	11476.86	-168.39	240.49	-163.71	0.00	
	11600.00	0.00	359.79	11576.86	-168.39	240.49	-163.71	0.00	KOD
	11609.19 11700.00	0.00 9.08	359.79 359.79	11586.05 11676.48	-168.39 -161.21	240.49 240.46	-163.71 -156.53	0.00 10.00	КОР
	11800.00	9.08 19.08	359.79	11076.48	-161.21	240.46 240.37	-132.24	10.00	
	11900.00	29.08	359.79	11864.53	-96.16	240.23	-91.50	10.00	
	12000.00	39.08	359.79	11947.25	-40.20	240.02	-35.55	10.00	
	12100.00	49.08	359.79	12019.00	29.28	239.76	33.92	10.00	
	12200.00 12300.00	59.08 69.08	359.79 359.79	12077.59 12121.24	110.16 199.99	239.47 239.14	114.78 204.58	10.00 10.00	
	12300.00	69.08 79.08	359.79 359.79	12121.24	296.03	239.14 238.79	204.58 300.60	10.00	
	12500.00	89.08	359.79	12158.93	395.37	238.42	399.91	10.00	
	12506.44	89.73	359.79	12159.00	401.82	238.40	406.35	10.00	Landing Point

on		County:		HBRED 10-3 F	ED 820H				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
	12600.00	89.73	359.79	12159.45	495.37	238.06	499.88	0.00	
	12700.00	89.73	359.79	12159.93	595.37	237.69	599.86	0.00	
	12800.00	89.73	359.79	12160.41	695.37	237.32	699.83	0.00	
	12900.00	89.73	359.79	12160.89	795.37	236.96	799.80	0.00	
	13000.00	89.73	359.79	12161.36	895.36	236.59	899.77	0.00	
	13100.00 13200.00	89.73 89.73	359.79 359.79	12161.84 12162.32	995.36 1095.36	236.22 235.85	999.75 1099.72	0.00 0.00	
	13300.00	89.73	359.79	12162.80	1195.36	235.49	1199.69	0.00	
	13400.00	89.73	359.79	12163.28	1295.36	235.12	1299.66	0.00	
	13500.00	89.73	359.79	12163.76	1395.36	234.75	1399.64	0.00	
	13600.00	89.73	359.79	12164.24	1495.35	234.39	1499.61	0.00	
	13700.00	89.73	359.79	12164.72	1595.35	234.02	1599.58	0.00	
	13800.00	89.73	359.79	12165.20	1695.35	233.65	1699.55	0.00	
	13900.00 14000.00	89.73 89.73	359.79 359.79	12165.68 12166.16	1795.35 1895.35	233.29 232.92	1799.53 1899.50	0.00 0.00	
	14000.00	89.73	359.79	12166.63	1995.34	232.92	1999.30	0.00	
	14200.00	89.73	359.79	12167.11	2095.34	232.18	2099.44	0.00	
	14300.00	89.73	359.79	12167.59	2195.34	231.82	2199.41	0.00	
	14400.00	89.73	359.79	12168.07	2295.34	231.45	2299.39	0.00	
	14500.00	89.73	359.79	12168.55	2395.34	231.08	2399.36	0.00	
	14600.00	89.73	359.79	12169.03	2495.34	230.72	2499.33	0.00	
	14700.00 14800.00	89.73 89.72	359.79	12169.51	2595.33	230.35	2599.30 2699.28	0.00 0.00	
	14800.00	89.73 89.73	359.79 359.79	12169.99 12170.47	2695.33 2795.33	229.98 229.62	2699.28	0.00	
	15000.00	89.73	359.79	12170.95	2895.33	229.25	2899.22	0.00	
	15100.00	89.73	359.79	12171.43	2995.33	228.88	2999.19	0.00	
	15200.00	89.73	359.79	12171.90	3095.32	228.51	3099.17	0.00	
	15300.00	89.73	359.79	12172.38	3195.32	228.15	3199.14	0.00	
	15400.00	89.73	359.79	12172.86	3295.32	227.78	3299.11	0.00	
	15500.00	89.73	359.79	12173.34	3395.32	227.41	3399.08	0.00	
	15600.00 15700.00	89.73 89.73	359.79 359.79	12173.82 12174.30	3495.32 3595.32	227.05 226.68	3499.06 3599.03	0.00 0.00	
	15800.00	89.73	359.79	12174.30	3695.32	226.88	3699.00	0.00	
	15900.00	89.73	359.79	12175.26	3795.31	225.94	3798.97	0.00	
	16000.00	89.73	359.79	12175.74	3895.31	225.58	3898.94	0.00	
	16100.00	89.73	359.79	12176.22	3995.31	225.21	3998.92	0.00	
	16200.00	89.73	359.79	12176.70	4095.31	224.84	4098.89	0.00	
	16300.00	89.73	359.79	12177.17	4195.30	224.48	4198.86	0.00	
	16400.00	89.73	359.79	12177.65	4295.30	224.11	4298.83	0.00	
	16500.00	89.73 89.72	359.79	12178.13	4395.30	223.74	4398.81	0.00	
	16600.00 16700.00	89.73 89.73	359.79 359.79	12178.61 12179.09	4495.30 4595.30	223.38 223.01	4498.78 4598.75	0.00 0.00	
	16800.00	89.73	359.79	12179.09	4695.30	222.64	4698.72	0.00	
	16900.00	89.73	359.79	12180.05	4795.29	222.27	4798.70	0.00	
	17000.00	89.73	359.79	12180.53	4895.29	221.91	4898.67	0.00	
	17100.00	89.73	359.79	12181.01	4995.29	221.54	4998.64	0.00	
	17200.00	89.73	359.79	12181.49	5095.29	221.17	5098.61	0.00	
	17300.00	89.73 89.72	359.79	12181.97	5195.29	220.81	5198.59	0.00	
	17400.00 17500.00	89.73 89.73	359.79 359.79	12182.45 12182.92	5295.28 5395.28	220.44 220.07	5298.56 5398.53	0.00 0.00	
	17600.00	89.73 89.73	359.79	12182.92	5395.28 5495.28	220.07 219.70	5398.53 5498.50	0.00	
	17700.00	89.73	359.79	12183.88	5595.28	219.34	5598.47	0.00	
	17800.00	89.73	359.79	12184.36	5695.28	218.97	5698.45	0.00	
	17900.00	89.73	359.79	12184.84	5795.28	218.60	5798.42	0.00	
	18000.00	89.73	359.79	12185.32	5895.27	218.24	5898.39	0.00	
	18100.00	89.73	359.79	12185.80	5995.27	217.87	5998.36	0.00	
	18200.00	89.73	359.79	12186.28	6095.27	217.50	6098.34	0.00	
	18300.00 18400.00	89.73 89.73	359.79 359.79	12186.76 12187.24	6195.27 6295.27	217.14 216.77	6198.31 6298.28	0.00 0.00	
	18400.00	89.73	359.79	12187.24	6395.26	216.77	6398.25	0.00	
	18600.00	89.73	359.79	12187.72	6495.26	216.03	6498.23	0.00	
	18700.00	89.73	359.79	12188.67	6595.26	215.67	6598.20	0.00	
	18800.00	89.73	359.79	12189.15	6695.26	215.30	6698.17	0.00	
	18900.00	89.73	359.79	12189.63	6795.26	214.93	6798.14	0.00	
	19000.00	89.73	359.79	12190.11	6895.26	214.57	6898.12	0.00	
	19100.00	89.73	359.79	12190.59	6995.25	214.20	6998.09	0.00	
	19200.00 19300.00	89.73 89.73	359.79 359.79	12191.07 12191.55	7095.25 7195.25	213.83 213.47	7098.06 7198.03	0.00 0.00	
								0.00	
	19400.00	89.73	359.79	12192.03	7295.25	213.10	7298.01		

evon	I	County: Wellbore:			ED 820H				Geodetic System: US State Plane 1983 Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM East (NAD83)
	MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
	19600.00	89.73	359.79	12192.99	7495.24	212.36	7497.95	0.00	
	19700.00	89.73	359.79	12193.46	7595.24	212.00	7597.92	0.00	
	19800.00	89.73	359.79	12193.94	7695.24	211.63	7697.89	0.00	
	19900.00	89.73	359.79	12194.42	7795.24	211.26	7797.87	0.00	
	20000.00	89.73	359.79	12194.90	7895.24	210.90	7897.84	0.00	
	20100.00	89.73	359.79	12195.38	7995.24	210.53	7997.81	0.00	
	20200.00	89.73	359.79	12195.86	8095.23	210.16	8097.78	0.00	
	20300.00	89.73	359.79	12196.34	8195.23	209.79	8197.76	0.00	
	20400.00	89.73	359.79	12196.82	8295.23	209.43	8297.73	0.00	
	20500.00	89.73	359.79	12197.30	8395.23	209.06	8397.70	0.00	
	20600.00	89.73	359.79	12197.78	8495.23	208.69	8497.67	0.00	
	20700.00	89.73	359.79	12198.26	8595.22	208.33	8597.65	0.00	
	20800.00	89.73	359.79	12198.73	8695.22	207.96	8697.62	0.00	
	20900.00	89.73	359.79	12199.21	8795.22	207.59	8797.59	0.00	
	21000.00	89.73	359.79	12199.69	8895.22	207.23	8897.56	0.00	
	21100.00	89.73	359.79	12200.17	8995.22	206.86	8997.54	0.00	
	21200.00	89.73	359.79	12200.17	9095.22	206.49	9097.51	0.00	
	21200.00	89.73	359.79	12200.03	9195.21	206.12	9197.48	0.00	
	21400.00	89.73	359.79	12201.13	9295.21	205.76	9297.45	0.00	
	21500.00	89.73	359.79	12201.01	9395.21	205.39	9397.42	0.00	
	21600.00	89.73	359.79	12202.05	9495.21	205.02	9497.40	0.00	
	21700.00	89.73	359.79	12202.07	9595.21	204.66	9597.37	0.00	
	21800.00	89.73	359.79	12203.53	9695.20	204.29	9697.34	0.00	
	21900.00	89.73	359.79	12203.33	9795.20	203.92	9797.31	0.00	
	22000.00	89.73	359.79	12204.00	9895.20	203.52	9897.29	0.00	
	22100.00	89.73	359.79	12204.96	9995.20	203.19	9997.26	0.00	
	22200.00	89.73	359.79		10095.20	202.82	10097.23	0.00	
	22300.00	89.73	359.79		10195.20	202.02	10197.20	0.00	
	22400.00	89.73	359.79		10295.19	202.45	10297.18	0.00	
	22400.00	89.73	359.79		10233.13	201.91	10237.10	0.00	exit
	22500.00	89.73	359.79	12206.88	10345.10	201.72	10345.15	0.00	exit
	22500.00	89.73	359.79		10393.19	201.72	10425.13	0.00	BHL
	22321.99	09.15	559.19	12207.00	10425.10	201.07	10425.15	0.00	BHL

1. Geologic Formations

TVD of target	12207	Pilot hole depth	N/A
MD at TD:	22528	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	1630		
Salt	1938		
Base of Salt	3891		
Cherry Canyon	4078		
Brushy Canyon	6360		
1st Bone Spring Lime	8035		
Bone Spring 1st	9033		
Bone Spring 2nd	9683		
Bone Spring 3rd	10956		
Wolfcamp	11366		

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

		Wt			Casing	Interval	Casing Interval	
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	10 3/4	45 1/2	J-55	BTC SCC	0	1125	0	1125
9 7/8	8 5/8	32	P110-ICY	441	0	11509	0	11509
7 7/8	5 1/2	20	P110EC	DWC / C-IS+	0	22528	0	12207

2. Casing Program (Primary Design)

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

3. Cementing Program

Assuming no returns are established while drilling, Devon requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. The final cement top will be verified by Echo-meter. Devon will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program. Devon will report to the BLM the volume of fluid (limited to 1 bbls) used to flush intermediate casing valves following backside cementing procedures.

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	450	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	441	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
Int I	594	6383	13.2	1.44	Tail: Class H / C + additives
Production	119	9609	9	3.27	Lead: Class H /C + additives
Froduction	1445	11609	13.2	1.44	Tail: Class H / C + additives

Casing String	% Excess
Surface	50%
Intermediate 1	30%
Prod	10%

.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		~	Tested to:	
			Annular		X	50% of rated working pressure	
Int 1	13-5/8"	5M		d Ram	Х		
Int I	15 5/0	5101	Pipe	e Ram		- 5M	
			Doub	le Ram	Х	5111	
			Other*				
			Annul	ar (5M)	Х	100% of rated working pressure	
Production	13-5/8"	10M	Blind Ram		Х		
Troduction	15-5/6	10101	Pipe	e Ram			
			Doub	le Ram	Х		
			Other*				
			Annul	ar (5M)			
			Blind	d Ram			
			Pipe	e Ram			
			Doub	le Ram			
			Other*				
N A variance is requested for					attached for	schematic.	
Y A variance is requested to a	run a 5 M ai	nnular on a	10M system	l			

4. Pressure Control Equipment (Three String Design)

5. Mud Program (Three String Design)

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

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

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
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6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6665
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 concentrationsgreater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176. If Hydrogen Sulfide is encounteredmeasured values and formations will be provided to the BLM.NH2S 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 regulations).

 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.

- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachments

X Directional Plan Other, describe

Calture it F	1				ls & Na ⁱ	tural	ew Mexico Resources Depa ION DIVISI			Rev	ised July, 2024
	lectronically Permitting							Submittal	Initial Submittal		
									Туре:	Amended Repor	t
										As Drilled	
					ELL LOC		ON INFORMATIC	N			
API N	umber		Pool Cod	e 98220		P	ool Name PURPLF	E SAGE: V	VOLEC	AMP (GAS)	
Prope	rty Code		Property							Well Number	
			Operator	Name	THOR	OUGH	IBRED 10-3 FED			820H Ground Level	Flevetion
6137 Operator Name DEVON ENERGY P					Y PR	ODUCTION COMP	ANY, L.P.		3244.3'	Elevation	
Surfac	e Owner:	□State □	Fee 🗆 Tril	oal 🛛 Fee	leral		Mineral Owner:	□State	□Fee □	Tribal 🖾 Federal	
UL	Section	Township	Range	Lot	Ft. fror		ce Location 5 Ft. from E/W	Latitude		Longitude	County
N	10	26-S	31-E		220'	-	1610' W	32.050	735	103.769457	EDDY
							Hole Location				
UL	Section	Township	Range	Lot	Ft. from		1	Latitude		Longitude	County
С	3	26-S	31-E		20'	N	1850' W	32.079	384	103.768630	EDDY
	1	I	<u> </u>		<u> </u>		1	1			
Dedicat	ed Acres	infill or Def	ining Well	Defining	Well API	Overla	apping Spacing Uni	t (Y/N)	Consolid	lation Code	
32	0.00	INFIL	L	30-015-	46506		Ν			С	
Order :	Numbers	NSP #2123	, PENDIN	IG NSL		Well s	setbacks are under	· Common	Ownersh	nip: □Yes ⊠No	
					Kic	k Off	Point (KOP)				
UL	Section	Township	Range	Lot	Ft. from		1 , , ,	Latitude		Longitude	County
Ν	10	26-S	31-E		50'	S	1850' W	32.050	269	103.768683	EDDY
					Fire	st Tak	e Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from	n N/S		Latitude		Longitude	County
Ν	10	26-S	31-E		100'	\mathbf{S}	1850'W	32.050	406	103.768683	EDDY
					Las	st Tak	e Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from		,	Latitude		Longitude	County
С	3	26-S	31-E		100'	Ν	1850' W	32.079	164	103.768631	EDDY
		077.10			G	·		4 - 3 - 37 42	1	······	
Unitized	Area or Are	ea of Uniform	Interest N		Spac	ing U	nit Type Horizon	tal Verti		Ground Floor Ele N/A	vation:
							Α		I	1.0/24	
I hereby o of my kno organizat including location p mineral in	owledge and b tion either own g the proposed pursuant to a c	e information con pelief, and, if the ns a working inte bottom hole loc- contract with an o voluntary pooli	well is a vertice erest or unlease ation or has a r owner of a wor	cal or direction d mineral intri ight to drill t king interest	onal well, tha terest in the la his well at the or unleased	e best t this and is	SURVEYOR CERTIFIC I hereby certify that the we of actual surveys made by correct to the best of my b	ell location sho me or under s		and that the same is true	
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 interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division. May A. Brown 06/11/2025					l ell's the	Signature and Seal	of Drofo	ssionel C	PROPERTIES	SOR NO	
Signa ⁻ Amv	Brown		Date				ABRITATIO ANA DEAL		SIGIGI C	Surveyor ^{3/ONAL}	/
	ed Name					c	ertificate Number	Date of	Survey		
	brown@dvn. Address	.com					23261	02/20	25		

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.



Thoroughbred 10-3 Fed 820H

10 3/4		surface csg in a	13 1/2	inch hole.		Design	Factors			Surface		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50		j 55	btc scc	9.89	3.97	0.57	1,125	7	0.96	7.51	51,188
"B"			,	btc scc				0				0
	w	/8.4#/g mud, 30min Sfc Csg Test	psig: 1.500	Tail Cmt	does not	circ to sfc.	Totals:	1,125				51,188
comparison o		to Minimum Required Ceme						, -				. ,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
13 1/2	0.3637	450	648	409	58	9.00	3746	5M				1.13
Burst Frac Grad	dient(s) for Se	egment(s) A, B = , b All > 0.1	70, ОК.									
											1	
8 5/8		casing inside the	10 3/4		1 - 1 - 4	Design		1	80.	Int 1	- 0	14/-1-1
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A" "B"	32.00		p 110	wedge 441	2.52	0.64	1.38	11,509	1	2.31	1.07	,
.В.		10 411/ 1 00 1 51 5	. 1.404				Tetal	0				0
	w	/8.4#/g mud, 30min Sfc Csg Test		dad to achieve a ten of	0	ft from su	Totals:	11,509 1125				368,288 overlap.
Hole	Annular	1 Stage	1 Stage	ded to achieve a top of Min	0 1 Stage	Drilling	Calc	Rea'd				Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cpl
9 7/8	0.1261	594	855	1461	-41	10.50	3973	5M				0.49
D V Tool(s):	0.1201	554	6360	1401	+1	10.50	sum of sx	Σ CuFt				Σ%exces
by stage % :		32	25				1035	1870				28
Tail cmt												
Tail cmt 5 1/2		casing inside the	8 5/8			Design Fa	ctors			Prod 1		
5 1/2	#/ft	casing inside the Grade	8 5/8	Coupling	Joint	<u>Design Fa</u> Collapse	<u>ctors</u> Burst	Length	B@s	Prod 1 a-B	a-C	Weight
5 1/2 Segment "A"		0	8 5/8 p 110	Coupling dwc/c is+	Joint 2.99			22,528	B@s 2		a-C 3.04	-
5 1/2 Segment "A" "B"	#/ft	0				Collapse	Burst	-	-	a-B		•
5 1/2 Segment "A" "B" "C"	#/ft	0				Collapse	Burst	22,528 0 0	-	a-B		450,560 0 0
5 1/2 Segment "A" "B"	#/ft 20.00	Grade	p 110			Collapse	Burst 2.16	22,528 0 0 0	-	a-B		450,560 0 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade /8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,686	dwc/c is+	2.99	Collapse 1.82	Burst 2.16 Totals:	22,528 0 0 22,528	-	a-B		450,560 0 0 450,560
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v	p 110 psig: 2,686 olume(s) are inten	dwc/c is+	2.99	Collapse 1.82 ft from su	Burst 2.16 Totals:	22,528 0 0 22,528 200	-	a-B		450,560 0 0 450,560 overlap.
5 1/2 Segment "A" "B" "C" "D" Hole	#/ft 20.00 w Annular	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage	p 110 psig: 2,686 olume(s) are inten 1 Stage	dwc/c is+ ded to achieve a top of Min	2.99 11309 1 Stage	Collapse 1.82 ft from su Drilling	Burst 2.16 Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd	-	a-B		450,560 0 0 450,560 overlap. Min Dist
5 1/2 Segment "A" "C" "D" Hole Size	#/ft 20.00 w Annular Volume	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt	dwc/c is+ ded to achieve a top of Min Cu Ft	2.99 11309 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt	Burst 2.16 Totals:	22,528 0 0 22,528 200	-	a-B		450,560 0 0 450,560 overlap. Min Dist Hole-Cpl
5 1/2 Segment "A" "C" "D" Hole Size 7 7/8	#/ft 20.00 w Annular Volume 0.1733	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage	p 110 psig: 2,686 olume(s) are inten 1 Stage	dwc/c is+ ded to achieve a top of Min	2.99 11309 1 Stage	Collapse 1.82 ft from su Drilling	Burst 2.16 Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd	-	a-B		450,560 0 0 450,560 overlap. Min Dist
5 1/2 Segment "A" "C" "D" Hole Size	#/ft 20.00 w Annular Volume 0.1733	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt	dwc/c is+ ded to achieve a top of Min Cu Ft	2.99 11309 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt	Burst 2.16 Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd	-	a-B		0 0 450,560 overlap. Min Dist Hole-Cplg
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8	#/ft 20.00 w Annular Volume 0.1733	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt	dwc/c is+ ded to achieve a top of Min Cu Ft	2.99 11309 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt	Burst 2.16 Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd	-	a-B		450,560 0 0 450,560 overlap. Min Dist Hole-Cply
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm	#/ft 20.00 w Annular Volume 0.1733	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt	dwc/c is+ ded to achieve a top of Min Cu Ft	2.99 11309 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt	Burst 2.16 Totals: urface or a Calc MASP	22,528 0 0 22,528 200 Req'd	2	a-B	3.04	450,560 0 0 450,560 overlap. Min Dist Hole-Cply
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm	#/ft 20.00 w Annular Volume 0.1733	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470	dwc/c is+ ded to achieve a top of Min Cu Ft	2.99 11309 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt 10.50	Burst 2.16 Totals: urface or a Calc MASP	22,528 0 0 22,528 200 Req'd	2	a-B 3.61	3.04	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0	#/ft 20.00 w Annular Volume 0.1733 att yld > 1.35	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470	dwc/c is+ ded to achieve a top of Min Cu Ft 1945	2.99 11309 1 Stage % Excess 27	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design	Burst 2.16 Totals: urface or a Calc MASP Factors	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl 0.79
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment	#/ft 20.00 w Annular Volume 0.1733 att yld > 1.35	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling	2.99 11309 1 Stage % Excess 27	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design	Burst 2.16 Totals: urface or a Calc MASP Factors	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl 0.79 Weight 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w Annular Volume 0.1733 0.1733 ti yld > 1.35 #/ft	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00	2.99 11309 1 Stage % Excess 27	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design	Burst 2.16 Totals: urface or a Calc MASP Factors	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl 0.79 Weight 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w Annular Volume 0.1733 0.1733 ti yld > 1.35 #/ft	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1 564 Grade /8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00	2.99 11309 1 Stage % Excess 27	Collapse 1.82 ft from su Drilling Mud Wt 10.50 Design	Burst 2.16 Totals: urface or a Calc MASP Factors Burst Totals:	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04 ing> a-C	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl 0.79 Weight 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w Annular Volume 0.1733 0.1733 ti yld > 1.35 #/ft	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1 564 Grade /8.4#/g mud, 30min Sfc Csg Test	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00 0.00	2.99 11309 1 Stage % Excess 27 #N/A	Collapse 1.82 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse	Burst 2.16 Totals: urface or a Calc MASP Factors Burst Totals:	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04 ing> a-C	450,560 0 0 450,560 overlap. Min Dis Hole-Cpl 0.79 Weigh 0 0 0 0 0 0 0 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B"	#/ft 20.00 w Annular Volume 0.1733 tt yld > 1.35 #/ft w	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564 Grade /8.4#/g mud, 30min Sfc Csg Test Cmt vol ca	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2 psig: Ic below includes	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00 0.00 this csg, TOC intended	2.99 11309 1 Stage % Excess 27 #N/A #N/A	Collapse 1.82 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse	Burst 2.16 Totals: urface or a Calc MASP Factors Burst Totals: urface or a	22,528 0 0 22,528 200 Req'd BOPE	2	a-B 3.61	3.04 ing> a-C	450,560 0 0 450,560 overlap. Min Dist Hole-Cpl 0.79 Weight 0 0 0
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 ilass 'C' tail cm #N/A 0 Segment "A" "B" Hole	#/ft 20.00 w Annular Volume 0.1733 it yld > 1.35 #/ft #/ft w Annular	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564 Grade /8.4#/g mud, 30min Sfc Csg Test Cmt vol ca 1 Stage	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2 psig: Ic below includes 1 Stage	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00 0.00 this csg, TOC intended Min	2.99 11309 1 Stage % Excess 27 #N/A 1 Stage	Collapse 1.82 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su Drilling	Burst 2.16 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd BOPE Length 0 0 wW/A Req'd	2	a-B 3.61	3.04 ing> a-C	450,560 0 0 450,566 overlap. Min Dis Hole-Cpl 0.79 Weigh 0 0 0 0 overlap. Min Dis
5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B" Hole Size	#/ft 20.00 w Annular Volume 0.1733 it yld > 1.35 #/ft #/ft w Annular	Grade /8.4#/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1564 Grade /8.4#/g mud, 30min Sfc Csg Test Cmt vol ca 1 Stage Cmt Sx	p 110 psig: 2,686 olume(s) are inten 1 Stage CuFt Cmt 2470 5 1/2 psig: Ic below includes 1 Stage CuFt Cmt	dwc/c is+ ded to achieve a top of Min Cu Ft 1945 Coupling 0.00 0.00 0.00 this csg, TOC intended Min Cu Ft 0	2.99 11309 1 Stage % Excess 27 #N/A 1 Stage % Excess	Collapse 1.82 ft from su Drilling Mud Wt 10.50 <u>Design I</u> Collapse ft from su Drilling	Burst 2.16 Totals: Inface or a Calc MASP Factors Burst Totals: Inface or a Calc	22,528 0 0 22,528 200 Req'd BOPE Length 0 0 wW/A Req'd	2	a-B 3.61	3.04 ing> a-C	450,50 0 450,50 overlap. Min Di Hole-Cl 0.79 Weig 0 0 0 0 0 0 0 0 0 0

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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

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	476106
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

(CONDITIONS		
	Created By	Condition	Condition Date
	ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	7/10/2025

CONDITIONS

Action 476106

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