

<b>Well Name:</b> VAN DOO DAH 33-28 FED COM	<b>Well Location:</b> T25S / R32E / SEC 33 / SESW / 32.0806012 / -103.6818142	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 303H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0359295A	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b>	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

**Notice of Intent**

**Sundry ID:** 2876887

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 10/02/2025

**Time Sundry Submitted:** 11:34

**Date proposed operation will begin:** 10/10/2025

**Procedure Description:** Devon Energy Production Co., LP respectfully requests a name and casing plan change for the subject well (APD ID 10400102802). Please see revised C102, drill plan and directional plan. Permitted Well Name: VAN DOO DAH 33-28 FED COM 303H Proposed Well Name: VAN DOO DAH 33-28 FED COM 520H Permitted Formation: LOWER BONE SPRING (POOL CODE: 97903, POOL NAME: WC-025 G-08 S253235G; LWR BONE SPRING) Proposed Formation: UPPER BONE SPRING (POOL CODE: 97838, POOL NAME: JENNINGS; BONE SPRING UPPER SHALE) Permitted TVD/MD: 10675 / 20954 Proposed TVD/MD: 9177 / 19466

**NOI Attachments**

**Procedure Description**

8.625\_32lb\_J55\_GEOCONN\_20251106150522.pdf

5.5\_20lb\_P110EC\_DWC\_C\_IS\_PLUS\_20251106150521.pdf

VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_11\_06\_2025\_20251106150521.pdf

13.375\_54.5lb\_J55\_20251106150520.pdf

VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_Directional\_Plan\_09\_23\_25\_20251002113252.pdf

WA022501539\_VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_WL\_R2\_SIGNED\_20251002113241.pdf

Well Name: VAN DOO DAH 33-28 FED COM

Well Location: T25S / R32E / SEC 33 / SESW / 32.0806012 / -103.6818142

County or Parish/State: LEA / NM

Well Number: 303H

Type of Well: OIL WELL

Allottee or Tribe Name:

Lease Number: NMNM0359295A

Unit or CA Name:

Unit or CA Number:

US Well Number:

Operator: DEVON ENERGY PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Sundry\_ID\_2876887\_Signed\_20251202141715.pdf

Operator

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

Operator Electronic Signature: AMY BROWN

Signed on: NOV 06, 2025 03:05 PM

Name: DEVON ENERGY PRODUCTION COMPANY LP

Title: Regulatory Professional

Street Address: 333 WEST SHERIDAN AVENUE

City: OKLAHOMA CITY State: OK

Phone: (405) 552-6137

Email address: AMY.BROWN@DVN.COM

Field

Representative Name:

Street Address:

City: State: Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: LONG VO

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5759885402

BLM POC Email Address: LVO@BLM.GOV

Disposition: Approved

Disposition Date: 12/02/2025

Signature: Long Vo

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

Oil Well     Gas Well     Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. (include area code)

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 BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or 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.

Office

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.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Location of Well

0. SHL: SESW / 350 FSL / 2125 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0806012 / LONG: -103.6818142 ( TVD: 0 feet, MD: 0 feet )  
PPP: SESW / 100 FSL / 2600 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799174 / LONG: -103.6802832 ( TVD: 10622 feet, MD: 10800 feet )  
PPP: SESW / 103 FSL / 2584 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.094443 / LONG: -103.680285 ( TVD: 10675 feet, MD: 15800 feet )  
PPP: SENW / 2462 FNL / 2592 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.101865 / LONG: -103.680287 ( TVD: 10675 feet, MD: 18500 feet )  
BHL: NENW / 20 FNL / 2600 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.108611 / LONG: -103.6802885 ( TVD: 10675 feet, MD: 20954 feet )

CONFIDENTIAL

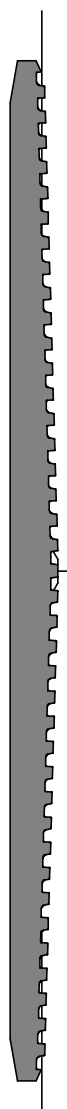
**8.625 " 32.00 lb/ft ( 0.352 " wall ) J55 GEOCONN®**



**Metal One**  
Tubular Connection

Special Clearance Coupling with Special bevel (20°)  
Thread Taper 1 / 16 TAPER (0.750 inch per foot) 5 T.P.I.  
Special Drift

Created at: **Mon, Sep 29, 2025 13:54:49 CT**



GEOMETRY	Pipe		Connection	
	Imperial	SI	Imperial	SI
Outside Diameter	8.625 in.	219.08 mm	9.000 in.	228.60 mm
Weight	32.00 lb/ft	47.62 kg/m	--	--
Wall Thickness	0.352 in.	8.94 mm	--	--
Inside Diameter	7.921 in.	201.19 mm	7.921 in.	201.19 mm
Drift Diameter	7.875 in.	200.03 mm	7.875 in.	200.03 mm
Connection Length	--	--	9.775 in.	248.29 mm
Critical Area	9.149 sq. in.	5,902 sq. mm	7.515 sq. in.	4,848 sq. mm
Tension Efficiency	--	--	82 %	82 %
Compression Efficiency	--	--	100 %	100 %
Make-Up Loss	--	--	4.813 in.	122.24 mm

PERFORMANCE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Yield	55 ksi	379 MPa	55 ksi	379 MPa
Remaining Body Wall (RBW)	87.5 %	87.5 %	--	--
Minimum Body Yield Strength	503 x 1000 lb	2,237 x 1000 N	--	--
Joint Yield Strength	--	--	413 x 1000 lb	1,839 x 1000 N
Compression Strength	--	--	503 x 1000 lb	2,237 x 1000 N
Minimum Internal Yield Pressure	3,930 psi	27.0 MPa	3,930 psi	27.0 MPa
Minimum Collapse Pressure	2,530 psi	17.5 MPa	2,530 psi	17.5 MPa
Maximum Bending Rating	--	--	24 deg/100 ft	24 deg/30 m

TORQUE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Make-Up	--	--	12,900 ft-lb	17,500 N-m
Optimum Make-Up	--	--	14,200 ft-lb	19,300 N-m
Maximum Make-Up	--	--	15,400 ft-lb	20,900 N-m
Operational Maximum	--	--	21,000 ft-lb	28,500 N-m

Notes:

1. Operational Maximum Torque can be applied for high torque application
2. Option of Resilience Ring is available for GEOCONN
3. Interchangeable with API BC

**Legal Notice**

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information. Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to [http://150.95.128.154/motc/wp-content/themes/motc/pdfs/WebsiteTerms\\_Active\\_20333287\\_1.pdf](http://150.95.128.154/motc/wp-content/themes/motc/pdfs/WebsiteTerms_Active_20333287_1.pdf) the contents of which are incorporated by reference into this Connection Data Sheet.

## 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		
Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	729	klb
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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**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.
10. 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](mailto: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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**2. Casing Program (Primary Design)**

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	829	0	829
9 7/8	8 5/8	32	J-55	GEOCONN	0	4464	0	4464
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	19466	0	9177

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

**3. Cementing Program (Primary Design)**

Casing	# Sk	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	638	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	274	Surf	9	3.27	Lead: Class C Cement + additives
	67	3964	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	623	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	274	Surf	9	3.27	Lead: Class C Cement + additives
	67	3964	13.2	1.44	Tail: Class H / C + additives
Production	273	3964	9	3.27	Lead: Class H / C + additives
	1431	8651	13.2	1.44	Tail: Class H / C + additives

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

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

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

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

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

Additional logs planned	Interval
	Resistivity
	Density
X	CBL
	Mud log
	PEX

**7. Drilling Conditions**

Condition	Specify what type and where?
BH pressure at deepest TVD	5011
Abnormal temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176.. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

**8. Other facets of operation**

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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



**13-3/8" 54.50# .380 J-55**

### **Dimensions (Nominal)**

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

### **Performance Ratings, Minimum**

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

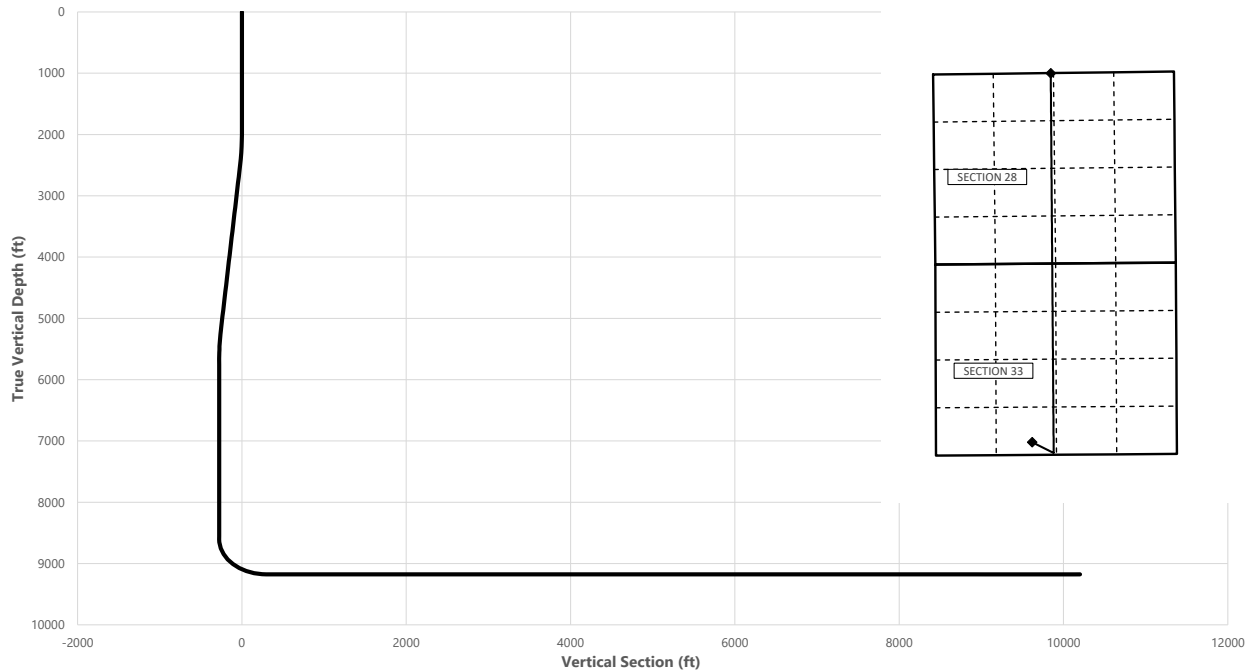
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



**Well:** VAN DOO DAH 33-28 FED COM 520H  
**County:** Lea  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	121.85	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	121.85	2497.47	-22.97	36.97	-21.46	2.00	Hold Tangent
5225.48	10.00	121.85	5181.54	-272.71	438.98	-254.81	0.00	Drop to Vertical
5725.48	0.00	121.85	5679.00	-295.68	475.95	-276.27	2.00	Hold Vertical
8650.52	0.00	359.64	8604.04	-295.68	475.95	-276.27	0.00	KOP
9550.52	90.00	359.64	9177.00	277.27	472.40	296.07	10.00	Landing Point
19465.82	90.00	359.64	9177.00	10192.38	410.86	10200.66	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	759.00	759.00
Salt	1135.00	1135.00
Base of Salt	4395.33	4364.00
Delaware	4624.82	4590.00
Cherry Canyon	5556.38	5510.00
Brushy Canyon	6948.48	6902.00
1st Bone Spring Lime	8526.48	8480.00
avalon / Point of Penetration	8656.48	8610.00
exit	19385.82	9177.01

**SHL**  
**KOP**  
**Point of Penetration**  
**Exit**  
**BHL**

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.0805	-103.6819	350' FSL, 2125' FWL of Sec 33 in T25S, R32E
8650.52	8604.04	32.0797	-103.6802	50' FSL, 2600' FWL of Sec 33 in T25S, R32E
8656.48	8610.00	32.0799	-103.6803	100' FSL, 2600' FWL of Sec 33 in T25S, R32E
19385.82	9177.01	32.1084	-103.6803	100' FNL, 2600' FWL of Sec 28 in T25S, R32E
19465.82	9177.00	32.1085	-103.6804	20' FNL, 2600' FWL of Sec 28 in T25S, R32E

	Y	X	MD
<b>KOP</b>	393374	743602	8650.52



Well: VAN DOO DAH 33-28 FED COM 520H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	121.85	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	121.85	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	121.85	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	121.85	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	121.85	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	121.85	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	121.85	700.00	0.00	0.00	0.00	0.00	
759.00	0.00	121.85	759.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	121.85	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	121.85	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	121.85	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	121.85	1100.00	0.00	0.00	0.00	0.00	
1135.00	0.00	121.85	1135.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	121.85	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	121.85	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	121.85	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	121.85	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	121.85	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	121.85	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	121.85	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	121.85	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	121.85	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	121.85	2099.98	-0.92	1.48	-0.86	2.00	
2200.00	4.00	121.85	2199.84	-3.68	5.93	-3.44	2.00	
2300.00	6.00	121.85	2299.45	-8.28	13.33	-7.74	2.00	
2400.00	8.00	121.85	2398.70	-14.71	23.68	-13.75	2.00	
2500.00	10.00	121.85	2497.47	-22.97	36.97	-21.46	2.00	Hold Tangent
2600.00	10.00	121.85	2595.95	-32.13	51.72	-30.02	0.00	
2700.00	10.00	121.85	2694.43	-41.29	66.47	-38.58	0.00	
2800.00	10.00	121.85	2792.91	-50.46	81.22	-47.14	0.00	
2900.00	10.00	121.85	2891.39	-59.62	95.97	-55.71	0.00	
3000.00	10.00	121.85	2989.87	-68.78	110.72	-64.27	0.00	
3100.00	10.00	121.85	3088.35	-77.95	125.47	-72.83	0.00	
3200.00	10.00	121.85	3186.83	-87.11	140.22	-81.39	0.00	
3300.00	10.00	121.85	3285.31	-96.27	154.97	-89.95	0.00	
3400.00	10.00	121.85	3383.79	-105.44	169.72	-98.51	0.00	
3500.00	10.00	121.85	3482.27	-114.60	184.47	-107.08	0.00	
3600.00	10.00	121.85	3580.75	-123.76	199.22	-115.64	0.00	
3700.00	10.00	121.85	3679.23	-132.93	213.97	-124.20	0.00	
3800.00	10.00	121.85	3777.72	-142.09	228.72	-132.76	0.00	
3900.00	10.00	121.85	3876.20	-151.25	243.47	-141.32	0.00	
4000.00	10.00	121.85	3974.68	-160.42	258.22	-149.89	0.00	
4100.00	10.00	121.85	4073.16	-169.58	272.97	-158.45	0.00	
4200.00	10.00	121.85	4171.64	-178.74	287.72	-167.01	0.00	
4300.00	10.00	121.85	4270.12	-187.91	302.47	-175.57	0.00	
4395.33	10.00	121.85	4364.00	-196.64	316.54	-183.73	0.00	Base of Salt
4400.00	10.00	121.85	4368.60	-197.07	317.22	-184.13	0.00	
4500.00	10.00	121.85	4467.08	-206.23	331.97	-192.69	0.00	
4600.00	10.00	121.85	4565.56	-215.40	346.72	-201.26	0.00	
4624.82	10.00	121.85	4590.00	-217.67	350.38	-203.38	0.00	Delaware
4700.00	10.00	121.85	4664.04	-224.56	361.47	-209.82	0.00	
4800.00	10.00	121.85	4762.52	-233.72	376.23	-218.38	0.00	
4900.00	10.00	121.85	4861.00	-242.89	390.98	-226.94	0.00	
5000.00	10.00	121.85	4959.48	-252.05	405.73	-235.50	0.00	
5100.00	10.00	121.85	5057.97	-261.21	420.48	-244.07	0.00	
5200.00	10.00	121.85	5156.45	-270.38	435.23	-252.63	0.00	
5225.48	10.00	121.85	5181.54	-272.71	438.98	-254.81	0.00	Drop to Vertical
5300.00	8.51	121.85	5255.09	-279.04	449.16	-260.72	2.00	
5400.00	6.51	121.85	5354.22	-285.93	460.27	-267.16	2.00	
5500.00	4.51	121.85	5453.76	-291.00	468.42	-271.90	2.00	
5556.38	3.38	121.85	5510.00	-293.05	471.72	-273.81	2.00	Cherry Canyon
5600.00	2.51	121.85	5553.56	-294.23	473.62	-274.91	2.00	
5700.00	0.51	121.85	5653.52	-295.62	475.86	-276.21	2.00	
5725.48	0.00	121.85	5679.00	-295.68	475.95	-276.27	2.00	Hold Vertical
5800.00	0.00	359.64	5753.52	-295.68	475.95	-276.27	0.00	
5900.00	0.00	359.64	5853.52	-295.68	475.95	-276.27	0.00	
6000.00	0.00	359.64	5953.52	-295.68	475.95	-276.27	0.00	
6100.00	0.00	359.64	6053.52	-295.68	475.95	-276.27	0.00	
6200.00	0.00	359.64	6153.52	-295.68	475.95	-276.27	0.00	



**Well:** VAN DOO DAH 33-28 FED COM 520H  
**County:** Lea  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.64	6253.52	-295.68	475.95	-276.27	0.00	
6400.00	0.00	359.64	6353.52	-295.68	475.95	-276.27	0.00	
6500.00	0.00	359.64	6453.52	-295.68	475.95	-276.27	0.00	
6600.00	0.00	359.64	6553.52	-295.68	475.95	-276.27	0.00	
6700.00	0.00	359.64	6653.52	-295.68	475.95	-276.27	0.00	
6800.00	0.00	359.64	6753.52	-295.68	475.95	-276.27	0.00	
6900.00	0.00	359.64	6853.52	-295.68	475.95	-276.27	0.00	
6948.48	0.00	359.64	6902.00	-295.68	475.95	-276.27	0.00	Brushy Canyon
7000.00	0.00	359.64	6953.52	-295.68	475.95	-276.27	0.00	
7100.00	0.00	359.64	7053.52	-295.68	475.95	-276.27	0.00	
7200.00	0.00	359.64	7153.52	-295.68	475.95	-276.27	0.00	
7300.00	0.00	359.64	7253.52	-295.68	475.95	-276.27	0.00	
7400.00	0.00	359.64	7353.52	-295.68	475.95	-276.27	0.00	
7500.00	0.00	359.64	7453.52	-295.68	475.95	-276.27	0.00	
7600.00	0.00	359.64	7553.52	-295.68	475.95	-276.27	0.00	
7700.00	0.00	359.64	7653.52	-295.68	475.95	-276.27	0.00	
7800.00	0.00	359.64	7753.52	-295.68	475.95	-276.27	0.00	
7900.00	0.00	359.64	7853.52	-295.68	475.95	-276.27	0.00	
8000.00	0.00	359.64	7953.52	-295.68	475.95	-276.27	0.00	
8100.00	0.00	359.64	8053.52	-295.68	475.95	-276.27	0.00	
8200.00	0.00	359.64	8153.52	-295.68	475.95	-276.27	0.00	
8300.00	0.00	359.64	8253.52	-295.68	475.95	-276.27	0.00	
8400.00	0.00	359.64	8353.52	-295.68	475.95	-276.27	0.00	
8500.00	0.00	359.64	8453.52	-295.68	475.95	-276.27	0.00	
8526.48	0.00	359.64	8480.00	-295.68	475.95	-276.27	0.00	1st Bone Spring Lime
8600.00	0.00	359.64	8553.52	-295.68	475.95	-276.27	0.00	
8650.52	0.00	359.64	8604.04	-295.68	475.95	-276.27	0.00	KOP
8656.48	0.60	359.64	8610.00	-295.65	475.95	-276.24	10.00	avalon / Point of Penetration
8700.00	4.95	359.64	8653.46	-293.54	475.94	-274.14	10.00	
8800.00	14.95	359.64	8751.83	-276.29	475.83	-256.90	10.00	
8900.00	24.95	359.64	8845.72	-242.22	475.62	-222.86	10.00	
9000.00	34.95	359.64	8932.25	-192.36	475.31	-173.06	10.00	
9100.00	44.95	359.64	9008.82	-128.23	474.91	-109.00	10.00	
9200.00	54.95	359.64	9073.08	-51.78	474.44	-32.63	10.00	
9300.00	64.95	359.64	9123.10	34.66	473.90	53.72	10.00	
9400.00	74.95	359.64	9157.34	128.48	473.32	147.44	10.00	
9500.00	84.95	359.64	9174.77	226.82	472.71	245.67	10.00	
9550.52	90.00	359.64	9177.00	277.27	472.40	296.07	10.00	Landing Point
9600.00	90.00	359.64	9177.00	326.75	472.09	345.50	0.00	
9700.00	90.00	359.64	9177.00	426.75	471.47	445.39	0.00	
9800.00	90.00	359.64	9177.00	526.75	470.85	545.28	0.00	
9900.00	90.00	359.64	9177.00	626.74	470.23	645.18	0.00	
10000.00	90.00	359.64	9177.00	726.74	469.61	745.07	0.00	
10100.00	90.00	359.64	9177.00	826.74	468.98	844.96	0.00	
10200.00	90.00	359.64	9177.00	926.74	468.36	944.85	0.00	
10300.00	90.00	359.64	9177.00	1026.74	467.74	1044.74	0.00	
10400.00	90.00	359.64	9177.00	1126.73	467.12	1144.64	0.00	
10500.00	90.00	359.64	9177.00	1226.73	466.50	1244.53	0.00	
10600.00	90.00	359.64	9177.00	1326.73	465.88	1344.42	0.00	
10700.00	90.00	359.64	9177.00	1426.73	465.26	1444.31	0.00	
10800.00	90.00	359.64	9177.00	1526.73	464.64	1544.20	0.00	
10900.00	90.00	359.64	9177.00	1626.72	464.02	1644.09	0.00	
11000.00	90.00	359.64	9177.00	1726.72	463.39	1743.99	0.00	
11100.00	90.00	359.64	9177.00	1826.72	462.77	1843.88	0.00	
11200.00	90.00	359.64	9177.00	1926.72	462.15	1943.77	0.00	
11300.00	90.00	359.64	9177.00	2026.72	461.53	2043.66	0.00	
11400.00	90.00	359.64	9177.00	2126.72	460.91	2143.55	0.00	
11500.00	90.00	359.64	9177.00	2226.71	460.29	2243.45	0.00	
11600.00	90.00	359.64	9177.00	2326.71	459.67	2343.34	0.00	
11700.00	90.00	359.64	9177.00	2426.71	459.05	2443.23	0.00	
11800.00	90.00	359.64	9177.00	2526.71	458.42	2543.12	0.00	
11900.00	90.00	359.64	9177.00	2626.71	457.80	2643.01	0.00	
12000.00	90.00	359.64	9177.00	2726.70	457.18	2742.91	0.00	
12100.00	90.00	359.64	9177.00	2826.70	456.56	2842.80	0.00	
12200.00	90.00	359.64	9177.00	2926.70	455.94	2942.69	0.00	
12300.00	90.00	359.64	9177.00	3026.70	455.32	3042.58	0.00	
12400.00	90.00	359.64	9177.00	3126.70	454.70	3142.47	0.00	
12500.00	90.00	359.64	9177.00	3226.69	454.08	3242.37	0.00	
12600.00	90.00	359.64	9177.00	3326.69	453.46	3342.26	0.00	
12700.00	90.00	359.64	9177.00	3426.69	452.83	3442.15	0.00	



**Well:** VAN DOO DAH 33-28 FED COM 520H  
**County:** Lea  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

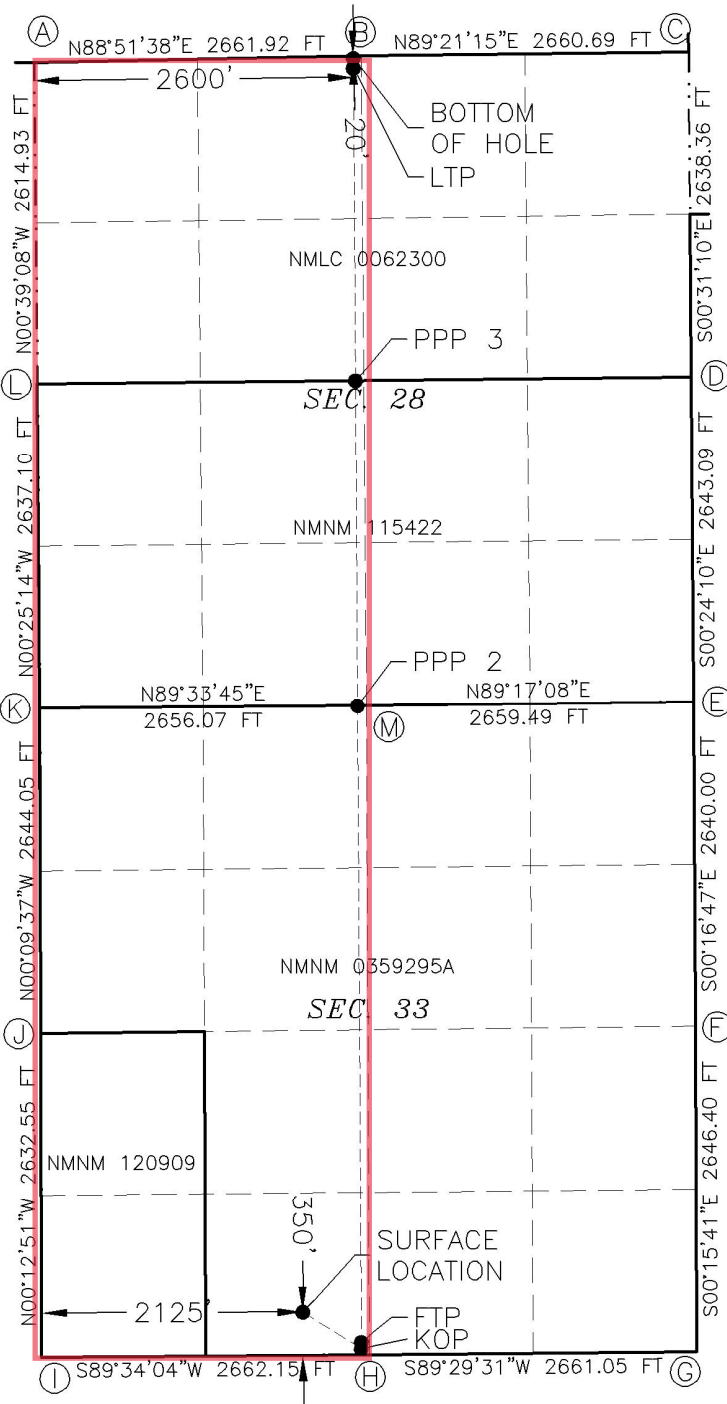
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	359.64	9177.00	3526.69	452.21	3542.04	0.00	
12900.00	90.00	359.64	9177.00	3626.69	451.59	3641.93	0.00	
13000.00	90.00	359.64	9177.00	3726.68	450.97	3741.82	0.00	
13100.00	90.00	359.64	9177.00	3826.68	450.35	3841.72	0.00	
13200.00	90.00	359.64	9177.00	3926.68	449.73	3941.61	0.00	
13300.00	90.00	359.64	9177.00	4026.68	449.11	4041.50	0.00	
13400.00	90.00	359.64	9177.00	4126.68	448.49	4141.39	0.00	
13500.00	90.00	359.64	9177.00	4226.67	447.87	4241.28	0.00	
13600.00	90.00	359.64	9177.01	4326.67	447.24	4341.18	0.00	
13700.00	90.00	359.64	9177.01	4426.67	446.62	4441.07	0.00	
13800.00	90.00	359.64	9177.01	4526.67	446.00	4540.96	0.00	
13900.00	90.00	359.64	9177.01	4626.67	445.38	4640.85	0.00	
14000.00	90.00	359.64	9177.01	4726.66	444.76	4740.74	0.00	
14100.00	90.00	359.64	9177.01	4826.66	444.14	4840.64	0.00	
14200.00	90.00	359.64	9177.01	4926.66	443.52	4940.53	0.00	
14300.00	90.00	359.64	9177.01	5026.66	442.90	5040.42	0.00	
14400.00	90.00	359.64	9177.01	5126.66	442.27	5140.31	0.00	
14500.00	90.00	359.64	9177.01	5226.66	441.65	5240.20	0.00	
14600.00	90.00	359.64	9177.01	5326.65	441.03	5340.09	0.00	
14700.00	90.00	359.64	9177.01	5426.65	440.41	5439.99	0.00	
14800.00	90.00	359.64	9177.01	5526.65	439.79	5539.88	0.00	
14900.00	90.00	359.64	9177.01	5626.65	439.17	5639.77	0.00	
15000.00	90.00	359.64	9177.01	5726.65	438.55	5739.66	0.00	
15100.00	90.00	359.64	9177.01	5826.64	437.93	5839.55	0.00	
15200.00	90.00	359.64	9177.01	5926.64	437.31	5939.45	0.00	
15300.00	90.00	359.64	9177.01	6026.64	436.68	6039.34	0.00	
15400.00	90.00	359.64	9177.01	6126.64	436.06	6139.23	0.00	
15500.00	90.00	359.64	9177.01	6226.64	435.44	6239.12	0.00	
15600.00	90.00	359.64	9177.01	6326.63	434.82	6339.01	0.00	
15700.00	90.00	359.64	9177.01	6426.63	434.20	6438.91	0.00	
15800.00	90.00	359.64	9177.01	6526.63	433.58	6538.80	0.00	
15900.00	90.00	359.64	9177.01	6626.63	432.96	6638.69	0.00	
16000.00	90.00	359.64	9177.01	6726.63	432.34	6738.58	0.00	
16100.00	90.00	359.64	9177.01	6826.62	431.71	6838.47	0.00	
16200.00	90.00	359.64	9177.01	6926.62	431.09	6938.37	0.00	
16300.00	90.00	359.64	9177.01	7026.62	430.47	7038.26	0.00	
16400.00	90.00	359.64	9177.01	7126.62	429.85	7138.15	0.00	
16500.00	90.00	359.64	9177.01	7226.62	429.23	7238.04	0.00	
16600.00	90.00	359.64	9177.01	7326.61	428.61	7337.93	0.00	
16700.00	90.00	359.64	9177.01	7426.61	427.99	7437.82	0.00	
16800.00	90.00	359.64	9177.01	7526.61	427.37	7537.72	0.00	
16900.00	90.00	359.64	9177.01	7626.61	426.75	7637.61	0.00	
17000.00	90.00	359.64	9177.01	7726.61	426.12	7737.50	0.00	
17100.00	90.00	359.64	9177.01	7826.61	425.50	7837.39	0.00	
17200.00	90.00	359.64	9177.01	7926.60	424.88	7937.28	0.00	
17300.00	90.00	359.64	9177.01	8026.60	424.26	8037.18	0.00	
17400.00	90.00	359.64	9177.01	8126.60	423.64	8137.07	0.00	
17500.00	90.00	359.64	9177.01	8226.60	423.02	8236.96	0.00	
17600.00	90.00	359.64	9177.01	8326.60	422.40	8336.85	0.00	
17700.00	90.00	359.64	9177.01	8426.59	421.78	8436.74	0.00	
17800.00	90.00	359.64	9177.01	8526.59	421.15	8536.64	0.00	
17900.00	90.00	359.64	9177.01	8626.59	420.53	8636.53	0.00	
18000.00	90.00	359.64	9177.01	8726.59	419.91	8736.42	0.00	
18100.00	90.00	359.64	9177.01	8826.59	419.29	8836.31	0.00	
18200.00	90.00	359.64	9177.01	8926.58	418.67	8936.20	0.00	
18300.00	90.00	359.64	9177.01	9026.58	418.05	9036.10	0.00	
18400.00	90.00	359.64	9177.01	9126.58	417.43	9135.99	0.00	
18500.00	90.00	359.64	9177.01	9226.58	416.81	9235.88	0.00	
18600.00	90.00	359.64	9177.01	9326.58	416.19	9335.77	0.00	
18700.00	90.00	359.64	9177.01	9426.57	415.56	9435.66	0.00	
18800.00	90.00	359.64	9177.01	9526.57	414.94	9535.55	0.00	
18900.00	90.00	359.64	9177.01	9626.57	414.32	9635.45	0.00	
19000.00	90.00	359.64	9177.01	9726.57	413.70	9735.34	0.00	
19100.00	90.00	359.64	9177.01	9826.57	413.08	9835.23	0.00	
19200.00	90.00	359.64	9177.01	9926.56	412.46	9935.12	0.00	
19300.00	90.00	359.64	9177.01	10026.56	411.84	10035.01	0.00	
19385.82	90.00	359.64	9177.01	10112.38	411.30	10120.74	0.00	exit
19400.00	90.00	359.64	9177.01	10126.56	411.22	10134.91	0.00	
19465.82	90.00	359.64	9177.00	10192.38	410.86	10200.66	0.00	BHL



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.

VAN DOO DAH 33-28 FED COM 520H  
 EL. = 3318.6



GEODETIC COORDINATES  
 NAD 83 NMSP EAST  
 SURFACE LOCATION  
 350' FSL, 2125' FWL  
 N. = 393669.19  
 E. = 743125.68  
 LAT. = 32.0806012°N  
 LONG. = 103.6818142°W

KICK OFF POINT 50' FSL, 2600' FWL N. = 393373.32 E. = 743601.56 LAT. = 32.0797799°N LONG. = 103.6802836°W	FIRST TAKE POINT (PPP 1) 100' FSL, 2600' FWL N. = 393423.31 E. = 743601.40 LAT. = 32.0799174°N LONG. = 103.6802832°W
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LAST TAKE POINT 100' FNL, 2600' FWL N. = 403781.59 E. = 743537.45 LAT. = 32.1083911°N LONG. = 103.6802871°W	BOTTOM OF HOLE 20' FNL, 2600' FWL N. = 403861.57 E. = 743536.54 LAT. = 32.1086110°N LONG. = 103.6802885°W
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PPP 2 0' FNL, 2548' FWL N. = 398598.94 E. = 743569.44 LAT. = 32.0941446°N LONG. = 103.6802851°W	PPP 3 2645' FSL, 2587' FWL N. = 401243.31 E. = 743553.12 LAT. = 32.1014137°N LONG. = 103.6802862°W
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CORNER COORDINATES TABLE  
 NAD 83 NMSP EAST

A - N. = 403829.87	E. = 740937.30
B - N. = 403882.79	E. = 743598.11
C - N. = 403912.78	E. = 746258.05
D - N. = 401272.46	E. = 746280.66
E - N. = 398632.65	E. = 746300.54
F - N. = 395993.26	E. = 746313.42
G - N. = 393347.47	E. = 746325.50
H - N. = 393323.87	E. = 743665.13
I - N. = 393301.16	E. = 741002.34
J - N. = 395935.76	E. = 740993.81
K - N. = 398579.22	E. = 740986.41
L - N. = 401215.68	E. = 740967.06
M - N. = 398599.50	E. = 743641.83

LEGEND

- SECTION LINE
- - - - - QUARTER LINE
- \_\_\_\_\_ LEASE LINE
- - - - - WELL PATH

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

<b>Well Name:</b> VAN DOO DAH 33-28 FED COM	<b>Well Location:</b> T25S / R32E / SEC 33 / SESW / 32.0806012 / -103.6818142	<b>County or Parish/State:</b> LEA / NM
<b>Well Number:</b> 303H	<b>Type of Well:</b> OIL WELL	<b>Allottee or Tribe Name:</b>
<b>Lease Number:</b> NMNM0359295A	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b>	<b>Operator:</b> DEVON ENERGY PRODUCTION COMPANY LP	

**Notice of Intent**

**Sundry ID:** 2876887

**Type of Submission:** Notice of Intent

**Type of Action:** APD Change

**Date Sundry Submitted:** 10/02/2025

**Time Sundry Submitted:** 11:34

**Date proposed operation will begin:** 10/10/2025

**Procedure Description:** Devon Energy Production Co., LP respectfully requests a name and casing plan change for the subject well (APD ID 10400102802). Please see revised C102, drill plan and directional plan. Permitted Well Name: VAN DOO DAH 33-28 FED COM 303H Proposed Well Name: VAN DOO DAH 33-28 FED COM 520H Permitted Formation: LOWER BONE SPRING (POOL CODE: 97903, POOL NAME: WC-025 G-08 S253235G; LWR BONE SPRING) Proposed Formation: UPPER BONE SPRING (POOL CODE: 97838, POOL NAME: JENNINGS; BONE SPRING UPPER SHALE) Permitted TVD/MD: 10675 / 20954 Proposed TVD/MD: 9177 / 19466

**NOI Attachments**

**Procedure Description**

8.625\_32lb\_J55\_GEOCONN\_20251106150522.pdf

5.5\_20lb\_P110EC\_DWC\_C\_IS\_PLUS\_20251106150521.pdf

VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_11\_06\_2025\_20251106150521.pdf

13.375\_54.5lb\_J55\_20251106150520.pdf

VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_Directional\_Plan\_09\_23\_25\_20251002113252.pdf

WA022501539\_VAN\_DOO\_DAH\_33\_28\_FED\_COM\_520H\_WL\_R2\_SIGNED\_20251002113241.pdf

**Well Name:** VAN DOO DAH 33-28 FED COM  
**Well Location:** T25S / R32E / SEC 33 / SESW / 32.0806012 / -103.6818142  
**County or Parish/State:** LEA / NM

**Well Number:** 303H  
**Type of Well:** OIL WELL  
**Allottee or Tribe Name:**

**Lease Number:** NMNM0359295A  
**Unit or CA Name:**  
**Unit or CA Number:**

**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:** NOV 06, 2025 03:05 PM

**Name:** DEVON ENERGY PRODUCTION COMPANY LP

**Title:** Regulatory Professional

**Street Address:** 333 WEST SHERIDAN AVENUE

**City:** OKLAHOMA CITY      **State:** OK

**Phone:** (405) 552-6137

**Email address:** AMY.BROWN@DVN.COM

**Field**

**Representative Name:**

**Street Address:**

**City:**      **State:**      **Zip:**

**Phone:**

**Email address:**

**BLM Point of Contact**

**BLM POC Name:** LONG VO  
**BLM POC Title:** Petroleum Engineer

**BLM POC Phone:** 5759885402  
**BLM POC Email Address:** LVO@BLM.GOV

**Disposition:** In-Reviews  
**Disposition Date:** 11/06/2025

**Signature:** Long Vo

## PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	Devon Energy Production Company LP
<b>LOCATION:</b>	Section 33, T.25 S., R.32 E., NMPM
<b>COUNTY:</b>	Lea County, New Mexico

<b>WELL NAME &amp; NO.:</b>	Van Doo Dah 33-28 Fed Com 520H
<b>ATS/API ID:</b>	3002554968
<b>APD ID:</b>	10400102802
<b>Sundry ID:</b>	2876887

COA

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

## A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated 500 feet prior to drilling into the **Brushy** formation. As a result, the Hydrogen Sulfide area must meet **43 CFR part 3170 Subpart 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

## B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately **784 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 **17 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 **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

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

2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above. **Cement excess is less than 25%, more cement is required if washout occurs. Adjust cement volume and excess based on a fluid caliper or similar method that reflects the as-drilled size of the wellbore.**

Operator has proposed to pump down **13-3/8" X 8-5/8"** annulus after primary cementing stage. Operator must run a CBL from TD of the 8-5/8" casing to surface. Submit results to the BLM. Operator may conduct a negative and positive pressure test during completion to remediate sustained casing pressure.

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

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

### C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2.

#### Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi. Annular which shall be tested to 2100 (70% Working Pressure) psi.**
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the **8-5/8** inch intermediate casing shoe shall be **5000 (5M) psi.**

#### Option 2:

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

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

- e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in **43 CFR part 3170 Subpart 3171**
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

##### **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.

##### **BOPE Break Testing Variance (Approved)**

- BOPE Break Testing is ONLY permitted for 5M psi MASP or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at **21**-day intervals.

- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR part 3170 Subpart 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.
- The BOPE testing shall be conducted while the rig is stationary.

Intermediate Break Testing Section:

- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).

**Offline BOPE Testing**

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

The BOPE offline testing shall be stationary during pressure testing.

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

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

**Offline Cementing**

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

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

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

## GENERAL REQUIREMENTS

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

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

Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Acceptable Method of Cement Verifications:
  - a. Observing cement circulated to surface.
  - b. Cement bond log (CBL).
  - c. Temperature log within 8-10 hours after completing the cement job.
  - d. Echometer (if a second-stage bradenhead squeeze is being used).
5. 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.
6. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
7. 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.
8. 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.
9. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-

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

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
  - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
  - e. The results of the test shall be reported to the appropriate BLM office.
  - f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
  - g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
  - h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.
- C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 12/2/2025

Form 3160-5  
(October 2024)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0220  
Expires: October 31, 2027

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
6. If Indian, Allottee or Tribe Name

<b>SUBMIT IN TRIPLICATE - Other instructions on page 2</b>		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	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 BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)	Title	
Signature	Date	

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or 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.	Office	

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.

(Instructions on page 2)

## GENERAL INSTRUCTIONS

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

## SPECIFIC INSTRUCTIONS

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

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

## NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

## Additional Information

### Location of Well

0. SHL: SESW / 350 FSL / 2125 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0806012 / LONG: -103.6818142 ( TVD: 0 feet, MD: 0 feet )  
PPP: SESW / 100 FSL / 2600 FWL / TWSP: 25S / RANGE: 32E / SECTION: 33 / LAT: 32.0799174 / LONG: -103.6802832 ( TVD: 10622 feet, MD: 10800 feet )  
PPP: SESW / 103 FSL / 2584 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.094443 / LONG: -103.680285 ( TVD: 10675 feet, MD: 15800 feet )  
PPP: SENW / 2462 FNL / 2592 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.101865 / LONG: -103.680287 ( TVD: 10675 feet, MD: 18500 feet )  
BHL: NENW / 20 FNL / 2600 FWL / TWSP: 25S / RANGE: 32E / SECTION: 28 / LAT: 32.108611 / LONG: -103.6802885 ( TVD: 10675 feet, MD: 20954 feet )

CONFIDENTIAL

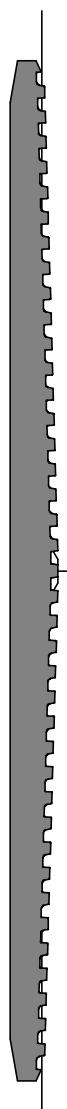
**8.625 " 32.00 lb/ft ( 0.352 " wall ) J55 GEOCONN®**



**Metal One**  
Tubular Connection

Special Clearance Coupling with Special bevel (20°)  
Thread Taper 1 / 16 TAPER (0.750 inch per foot) 5 T.P.I.  
Special Drift

Created at: **Mon, Sep 29, 2025 13:54:49 CT**



GEOMETRY	Pipe		Connection	
	Imperial	SI	Imperial	SI
Outside Diameter	8.625 in.	219.08 mm	9.000 in.	228.60 mm
Weight	32.00 lb/ft	47.62 kg/m	--	--
Wall Thickness	0.352 in.	8.94 mm	--	--
Inside Diameter	7.921 in.	201.19 mm	7.921 in.	201.19 mm
Drift Diameter	7.875 in.	200.03 mm	7.875 in.	200.03 mm
Connection Length	--	--	9.775 in.	248.29 mm
Critical Area	9.149 sq. in.	5,902 sq. mm	7.515 sq. in.	4,848 sq. mm
Tension Efficiency	--	--	82 %	82 %
Compression Efficiency	--	--	100 %	100 %
Make-Up Loss	--	--	4.813 in.	122.24 mm

PERFORMANCE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Yield	55 ksi	379 MPa	55 ksi	379 MPa
Remaining Body Wall (RBW)	87.5 %	87.5 %	--	--
Minimum Body Yield Strength	503 x 1000 lb	2,237 x 1000 N	--	--
Joint Yield Strength	--	--	413 x 1000 lb	1,839 x 1000 N
Compression Strength	--	--	503 x 1000 lb	2,237 x 1000 N
Minimum Internal Yield Pressure	3,930 psi	27.0 MPa	3,930 psi	27.0 MPa
Minimum Collapse Pressure	2,530 psi	17.5 MPa	2,530 psi	17.5 MPa
Maximum Bending Rating	--	--	24 deg/100 ft	24 deg/30 m

TORQUE	Pipe		Connection	
	Imperial	SI	Imperial	SI
Minimum Make-Up	--	--	12,900 ft-lb	17,500 N-m
Optimum Make-Up	--	--	14,200 ft-lb	19,300 N-m
Maximum Make-Up	--	--	15,400 ft-lb	20,900 N-m
Operational Maximum	--	--	21,000 ft-lb	28,500 N-m

Notes:

1. Operational Maximum Torque can be applied for high torque application
2. Option of Resilience Ring is available for GEOCONN
3. Interchangeable with API BC

**Legal Notice**

The use of this information is at the reader/user's risk and no warranty is implied or expressed by Metal One Corporation or its parents, subsidiaries or affiliates (herein collectively referred to as "Metal One") with respect to the use of information contained herein. The information provided on this Connection Data Sheet is for informational purposes only, and was prepared by reference to engineering information that is specific to the subject products, without regard to safety-related factors, all of which are the sole responsibility of the operators and users of the subject connectors. Metal One assumes no responsibility for any errors with respect to this information. Statements regarding the suitability of products for certain types of applications are based on Metal One's knowledge of typical requirements that are often placed on Metal One products in standard well configurations. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. The products described in this Connection Data Sheet are not recommended for use in deep water offshore applications. For more information, please refer to [http://150.95.128.154/motc/wp-content/themes/motc/pdfs/WebsiteTerms\\_Active\\_20333287\\_1.pdf](http://150.95.128.154/motc/wp-content/themes/motc/pdfs/WebsiteTerms_Active_20333287_1.pdf) the contents of which are incorporated by reference into this Connection Data Sheet.

## 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		
Connection Type	Semi-Premium T&C	
Connection OD (nom)	6.300	in.
Connection ID (nom)	4.778	in.
Make-Up Loss	4.125	in.
Coupling Length	9.250	in.
Critical Cross Section	5.828	sq.in.
Tension Efficiency	100.0%	of pipe
Compression Efficiency	100.0%	of pipe
Internal Pressure Efficiency	100.0%	of pipe
External Pressure Efficiency	100.0%	of pipe

CONNECTION PERFORMANCES		
Yield Strength	729	klb
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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**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.
10. 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](mailto: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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**2. Casing Program (Primary Design)**

Hole Size	Csg. Size	Wt (PPF)	Grade	Conn	Casing Interval		Casing Interval	
					From (MD)	To (MD)	From (TVD)	To (TVD)
17 1/2	13 3/8	54 1/2	J-55	BTC	0	829	0	829
9 7/8	8 5/8	32	J-55	GEOCONN	0	4464	0	4464
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	19466	0	9177

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

**3. Cementing Program (Primary Design)**

Casing	# Sk	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	638	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	274	Surf	9	3.27	Lead: Class C Cement + additives
	67	3964	13.2	1.44	Tail: Class H / C + additives
Int 1 Intermediate Squeeze	623	Surf	13.2	1.44	Squeeze Lead: Class C Cement + additives
	274	Surf	9	3.27	Lead: Class C Cement + additives
	67	3964	13.2	1.44	Tail: Class H / C + additives
Production	273	3964	9	3.27	Lead: Class H / C + additives
	1431	8651	13.2	1.44	Tail: Class H / C + additives

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

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

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
Int 1	13-5/8"	5M	Annular	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
Production	13-5/8"	5M	Annular (5M)	X	50% of rated working pressure
			Blind Ram	X	5M
			Pipe Ram		
			Double Ram	X	
			Other*		
			Annular (5M)		
			Blind Ram		
			Pipe Ram		
			Double Ram		
			Other*		
N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.				
Y	A variance is requested to run a 5 M annular on a 10M system				

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

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

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

**7. Drilling Conditions**

Condition	Specfiy what type and where?
BH pressure at deepest TVD	5011
Abnormal temperature	No

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

Hydrogren Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR 3176.. If Hydrogen Sulfide is encountered measured values and formations will be provided to the BLM.	
N	H2S is present
Y	H2S plan attached.

**8. Other facets of operation**

Is this a walking operation? Potentially

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

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

Will be pre-setting casing? Potentially

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



**13-3/8" 54.50# .380 J-55**

**Dimensions (Nominal)**

Outside Diameter	13.375	in.
Wall	0.380	in.
Inside Diameter	12.615	in.
Drift	12.459	in.
Weight, T&C	54.500	lbs/ft
Weight, PE	52.790	lbs/ft

**Performance Ratings, Minimum**

Collapse, PE	1130	psi
Internal Yields Pressure		
PE	2730	psi
STC	2730	PSI
BTC	2730	psi
Yield Strength, Pipe Body	853	1000 lbs
Joint Strength, STC	514	1000 lbs
Joint Strength, BTC	909	1000 lbs

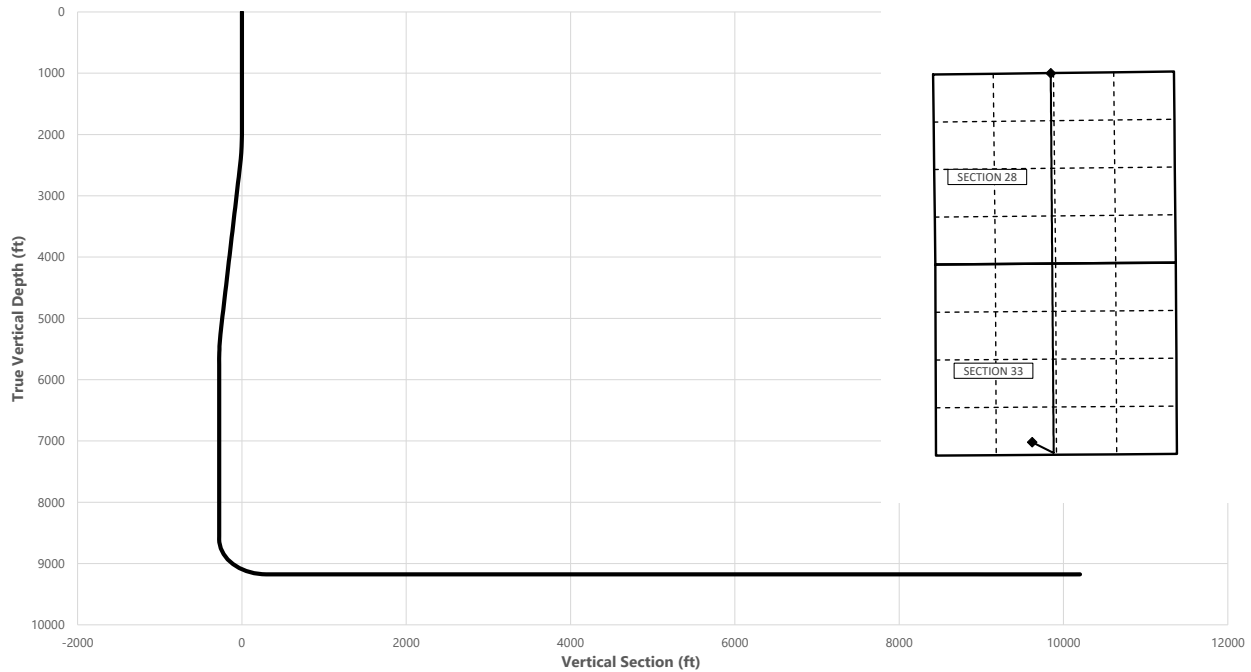
Note: SeAH Steel has produced this specification sheet for general information only. SeAH does not assume liability or responsibility for any loss or injury resulting from the use of information or data contained herein. All applications for the material described are at the customer's own risk and responsibility.



Well: VAN DOO DAH 33-28 FED COM 520H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
2000.00	0.00	121.85	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2500.00	10.00	121.85	2497.47	-22.97	36.97	-21.46	2.00	Hold Tangent
5225.48	10.00	121.85	5181.54	-272.71	438.98	-254.81	0.00	Drop to Vertical
5725.48	0.00	121.85	5679.00	-295.68	475.95	-276.27	2.00	Hold Vertical
8650.52	0.00	359.64	8604.04	-295.68	475.95	-276.27	0.00	KOP
9550.52	90.00	359.64	9177.00	277.27	472.40	296.07	10.00	Landing Point
19465.82	90.00	359.64	9177.00	10192.38	410.86	10200.66	0.00	BHL



Key Depths	MD (ft)	TVD (ft)
Rustler	759.00	759.00
Salt	1135.00	1135.00
Base of Salt	4395.33	4364.00
Delaware	4624.82	4590.00
Cherry Canyon	5556.38	5510.00
Brushy Canyon	6948.48	6902.00
1st Bone Spring Lime	8526.48	8480.00
avalon / Point of Penetration	8656.48	8610.00
exit	19385.82	9177.01

SHL  
 KOP  
 Point of Penetration  
 Exit  
 BHL

MD (ft)	TVD (ft)	Lat (°)	Long (°)	Section Footages
0.00	0.00	32.0805	-103.6819	350' FSL, 2125' FWL of Sec 33 in T25S, R32E
8650.52	8604.04	32.0797	-103.6802	50' FSL, 2600' FWL of Sec 33 in T25S, R32E
8656.48	8610.00	32.0799	-103.6803	100' FSL, 2600' FWL of Sec 33 in T25S, R32E
19385.82	9177.01	32.1084	-103.6803	100' FNL, 2600' FWL of Sec 28 in T25S, R32E
19465.82	9177.00	32.1085	-103.6804	20' FNL, 2600' FWL of Sec 28 in T25S, R32E

	Y	X	MD
KOP	393374	743602	8650.52



Well: VAN DOO DAH 33-28 FED COM 520H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	121.85	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	121.85	200.00	0.00	0.00	0.00	0.00	
300.00	0.00	121.85	300.00	0.00	0.00	0.00	0.00	
400.00	0.00	121.85	400.00	0.00	0.00	0.00	0.00	
500.00	0.00	121.85	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	121.85	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	121.85	700.00	0.00	0.00	0.00	0.00	
759.00	0.00	121.85	759.00	0.00	0.00	0.00	0.00	Rustler
800.00	0.00	121.85	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	121.85	900.00	0.00	0.00	0.00	0.00	
1000.00	0.00	121.85	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	121.85	1100.00	0.00	0.00	0.00	0.00	
1135.00	0.00	121.85	1135.00	0.00	0.00	0.00	0.00	Salt
1200.00	0.00	121.85	1200.00	0.00	0.00	0.00	0.00	
1300.00	0.00	121.85	1300.00	0.00	0.00	0.00	0.00	
1400.00	0.00	121.85	1400.00	0.00	0.00	0.00	0.00	
1500.00	0.00	121.85	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	121.85	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	121.85	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	121.85	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	121.85	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	121.85	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	121.85	2099.98	-0.92	1.48	-0.86	2.00	
2200.00	4.00	121.85	2199.84	-3.68	5.93	-3.44	2.00	
2300.00	6.00	121.85	2299.45	-8.28	13.33	-7.74	2.00	
2400.00	8.00	121.85	2398.70	-14.71	23.68	-13.75	2.00	
2500.00	10.00	121.85	2497.47	-22.97	36.97	-21.46	2.00	Hold Tangent
2600.00	10.00	121.85	2595.95	-32.13	51.72	-30.02	0.00	
2700.00	10.00	121.85	2694.43	-41.29	66.47	-38.58	0.00	
2800.00	10.00	121.85	2792.91	-50.46	81.22	-47.14	0.00	
2900.00	10.00	121.85	2891.39	-59.62	95.97	-55.71	0.00	
3000.00	10.00	121.85	2989.87	-68.78	110.72	-64.27	0.00	
3100.00	10.00	121.85	3088.35	-77.95	125.47	-72.83	0.00	
3200.00	10.00	121.85	3186.83	-87.11	140.22	-81.39	0.00	
3300.00	10.00	121.85	3285.31	-96.27	154.97	-89.95	0.00	
3400.00	10.00	121.85	3383.79	-105.44	169.72	-98.51	0.00	
3500.00	10.00	121.85	3482.27	-114.60	184.47	-107.08	0.00	
3600.00	10.00	121.85	3580.75	-123.76	199.22	-115.64	0.00	
3700.00	10.00	121.85	3679.23	-132.93	213.97	-124.20	0.00	
3800.00	10.00	121.85	3777.72	-142.09	228.72	-132.76	0.00	
3900.00	10.00	121.85	3876.20	-151.25	243.47	-141.32	0.00	
4000.00	10.00	121.85	3974.68	-160.42	258.22	-149.89	0.00	
4100.00	10.00	121.85	4073.16	-169.58	272.97	-158.45	0.00	
4200.00	10.00	121.85	4171.64	-178.74	287.72	-167.01	0.00	
4300.00	10.00	121.85	4270.12	-187.91	302.47	-175.57	0.00	
4395.33	10.00	121.85	4364.00	-196.64	316.54	-183.73	0.00	Base of Salt
4400.00	10.00	121.85	4368.60	-197.07	317.22	-184.13	0.00	
4500.00	10.00	121.85	4467.08	-206.23	331.97	-192.69	0.00	
4600.00	10.00	121.85	4565.56	-215.40	346.72	-201.26	0.00	
4624.82	10.00	121.85	4590.00	-217.67	350.38	-203.38	0.00	Delaware
4700.00	10.00	121.85	4664.04	-224.56	361.47	-209.82	0.00	
4800.00	10.00	121.85	4762.52	-233.72	376.23	-218.38	0.00	
4900.00	10.00	121.85	4861.00	-242.89	390.98	-226.94	0.00	
5000.00	10.00	121.85	4959.48	-252.05	405.73	-235.50	0.00	
5100.00	10.00	121.85	5057.97	-261.21	420.48	-244.07	0.00	
5200.00	10.00	121.85	5156.45	-270.38	435.23	-252.63	0.00	
5225.48	10.00	121.85	5181.54	-272.71	438.98	-254.81	0.00	Drop to Vertical
5300.00	8.51	121.85	5255.09	-279.04	449.16	-260.72	2.00	
5400.00	6.51	121.85	5354.22	-285.93	460.27	-267.16	2.00	
5500.00	4.51	121.85	5453.76	-291.00	468.42	-271.90	2.00	
5556.38	3.38	121.85	5510.00	-293.05	471.72	-273.81	2.00	Cherry Canyon
5600.00	2.51	121.85	5553.56	-294.23	473.62	-274.91	2.00	
5700.00	0.51	121.85	5653.52	-295.62	475.86	-276.21	2.00	
5725.48	0.00	121.85	5679.00	-295.68	475.95	-276.27	2.00	Hold Vertical
5800.00	0.00	359.64	5753.52	-295.68	475.95	-276.27	0.00	
5900.00	0.00	359.64	5853.52	-295.68	475.95	-276.27	0.00	
6000.00	0.00	359.64	5953.52	-295.68	475.95	-276.27	0.00	
6100.00	0.00	359.64	6053.52	-295.68	475.95	-276.27	0.00	
6200.00	0.00	359.64	6153.52	-295.68	475.95	-276.27	0.00	



**Well:** VAN DOO DAH 33-28 FED COM 520H  
**County:** Lea  
**Wellbore:** Permit Plan  
**Design:** Permit Plan #1

**Geodetic System:** US State Plane 1983  
**Datum:** North American Datum 1927  
**Ellipsoid:** Clarke 1866  
**Zone:** 3001 - NM East (NAD83)

MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
6300.00	0.00	359.64	6253.52	-295.68	475.95	-276.27	0.00	
6400.00	0.00	359.64	6353.52	-295.68	475.95	-276.27	0.00	
6500.00	0.00	359.64	6453.52	-295.68	475.95	-276.27	0.00	
6600.00	0.00	359.64	6553.52	-295.68	475.95	-276.27	0.00	
6700.00	0.00	359.64	6653.52	-295.68	475.95	-276.27	0.00	
6800.00	0.00	359.64	6753.52	-295.68	475.95	-276.27	0.00	
6900.00	0.00	359.64	6853.52	-295.68	475.95	-276.27	0.00	
6948.48	0.00	359.64	6902.00	-295.68	475.95	-276.27	0.00	Brushy Canyon
7000.00	0.00	359.64	6953.52	-295.68	475.95	-276.27	0.00	
7100.00	0.00	359.64	7053.52	-295.68	475.95	-276.27	0.00	
7200.00	0.00	359.64	7153.52	-295.68	475.95	-276.27	0.00	
7300.00	0.00	359.64	7253.52	-295.68	475.95	-276.27	0.00	
7400.00	0.00	359.64	7353.52	-295.68	475.95	-276.27	0.00	
7500.00	0.00	359.64	7453.52	-295.68	475.95	-276.27	0.00	
7600.00	0.00	359.64	7553.52	-295.68	475.95	-276.27	0.00	
7700.00	0.00	359.64	7653.52	-295.68	475.95	-276.27	0.00	
7800.00	0.00	359.64	7753.52	-295.68	475.95	-276.27	0.00	
7900.00	0.00	359.64	7853.52	-295.68	475.95	-276.27	0.00	
8000.00	0.00	359.64	7953.52	-295.68	475.95	-276.27	0.00	
8100.00	0.00	359.64	8053.52	-295.68	475.95	-276.27	0.00	
8200.00	0.00	359.64	8153.52	-295.68	475.95	-276.27	0.00	
8300.00	0.00	359.64	8253.52	-295.68	475.95	-276.27	0.00	
8400.00	0.00	359.64	8353.52	-295.68	475.95	-276.27	0.00	
8500.00	0.00	359.64	8453.52	-295.68	475.95	-276.27	0.00	
8526.48	0.00	359.64	8480.00	-295.68	475.95	-276.27	0.00	1st Bone Spring Lime
8600.00	0.00	359.64	8553.52	-295.68	475.95	-276.27	0.00	
8650.52	0.00	359.64	8604.04	-295.68	475.95	-276.27	0.00	KOP
8656.48	0.60	359.64	8610.00	-295.65	475.95	-276.24	10.00	avalon / Point of Penetration
8700.00	4.95	359.64	8653.46	-293.54	475.94	-274.14	10.00	
8800.00	14.95	359.64	8751.83	-276.29	475.83	-256.90	10.00	
8900.00	24.95	359.64	8845.72	-242.22	475.62	-222.86	10.00	
9000.00	34.95	359.64	8932.25	-192.36	475.31	-173.06	10.00	
9100.00	44.95	359.64	9008.82	-128.23	474.91	-109.00	10.00	
9200.00	54.95	359.64	9073.08	-51.78	474.44	-32.63	10.00	
9300.00	64.95	359.64	9123.10	34.66	473.90	53.72	10.00	
9400.00	74.95	359.64	9157.34	128.48	473.32	147.44	10.00	
9500.00	84.95	359.64	9174.77	226.82	472.71	245.67	10.00	
9550.52	90.00	359.64	9177.00	277.27	472.40	296.07	10.00	Landing Point
9600.00	90.00	359.64	9177.00	326.75	472.09	345.50	0.00	
9700.00	90.00	359.64	9177.00	426.75	471.47	445.39	0.00	
9800.00	90.00	359.64	9177.00	526.75	470.85	545.28	0.00	
9900.00	90.00	359.64	9177.00	626.74	470.23	645.18	0.00	
10000.00	90.00	359.64	9177.00	726.74	469.61	745.07	0.00	
10100.00	90.00	359.64	9177.00	826.74	468.98	844.96	0.00	
10200.00	90.00	359.64	9177.00	926.74	468.36	944.85	0.00	
10300.00	90.00	359.64	9177.00	1026.74	467.74	1044.74	0.00	
10400.00	90.00	359.64	9177.00	1126.73	467.12	1144.64	0.00	
10500.00	90.00	359.64	9177.00	1226.73	466.50	1244.53	0.00	
10600.00	90.00	359.64	9177.00	1326.73	465.88	1344.42	0.00	
10700.00	90.00	359.64	9177.00	1426.73	465.26	1444.31	0.00	
10800.00	90.00	359.64	9177.00	1526.73	464.64	1544.20	0.00	
10900.00	90.00	359.64	9177.00	1626.72	464.02	1644.09	0.00	
11000.00	90.00	359.64	9177.00	1726.72	463.39	1743.99	0.00	
11100.00	90.00	359.64	9177.00	1826.72	462.77	1843.88	0.00	
11200.00	90.00	359.64	9177.00	1926.72	462.15	1943.77	0.00	
11300.00	90.00	359.64	9177.00	2026.72	461.53	2043.66	0.00	
11400.00	90.00	359.64	9177.00	2126.72	460.91	2143.55	0.00	
11500.00	90.00	359.64	9177.00	2226.71	460.29	2243.45	0.00	
11600.00	90.00	359.64	9177.00	2326.71	459.67	2343.34	0.00	
11700.00	90.00	359.64	9177.00	2426.71	459.05	2443.23	0.00	
11800.00	90.00	359.64	9177.00	2526.71	458.42	2543.12	0.00	
11900.00	90.00	359.64	9177.00	2626.71	457.80	2643.01	0.00	
12000.00	90.00	359.64	9177.00	2726.70	457.18	2742.91	0.00	
12100.00	90.00	359.64	9177.00	2826.70	456.56	2842.80	0.00	
12200.00	90.00	359.64	9177.00	2926.70	455.94	2942.69	0.00	
12300.00	90.00	359.64	9177.00	3026.70	455.32	3042.58	0.00	
12400.00	90.00	359.64	9177.00	3126.70	454.70	3142.47	0.00	
12500.00	90.00	359.64	9177.00	3226.69	454.08	3242.37	0.00	
12600.00	90.00	359.64	9177.00	3326.69	453.46	3342.26	0.00	
12700.00	90.00	359.64	9177.00	3426.69	452.83	3442.15	0.00	



Well: VAN DOO DAH 33-28 FED COM 520H  
 County: Lea  
 Wellbore: Permit Plan  
 Design: Permit Plan #1

Geodetic System: US State Plane 1983  
 Datum: North American Datum 1927  
 Ellipsoid: Clarke 1866  
 Zone: 3001 - NM East (NAD83)

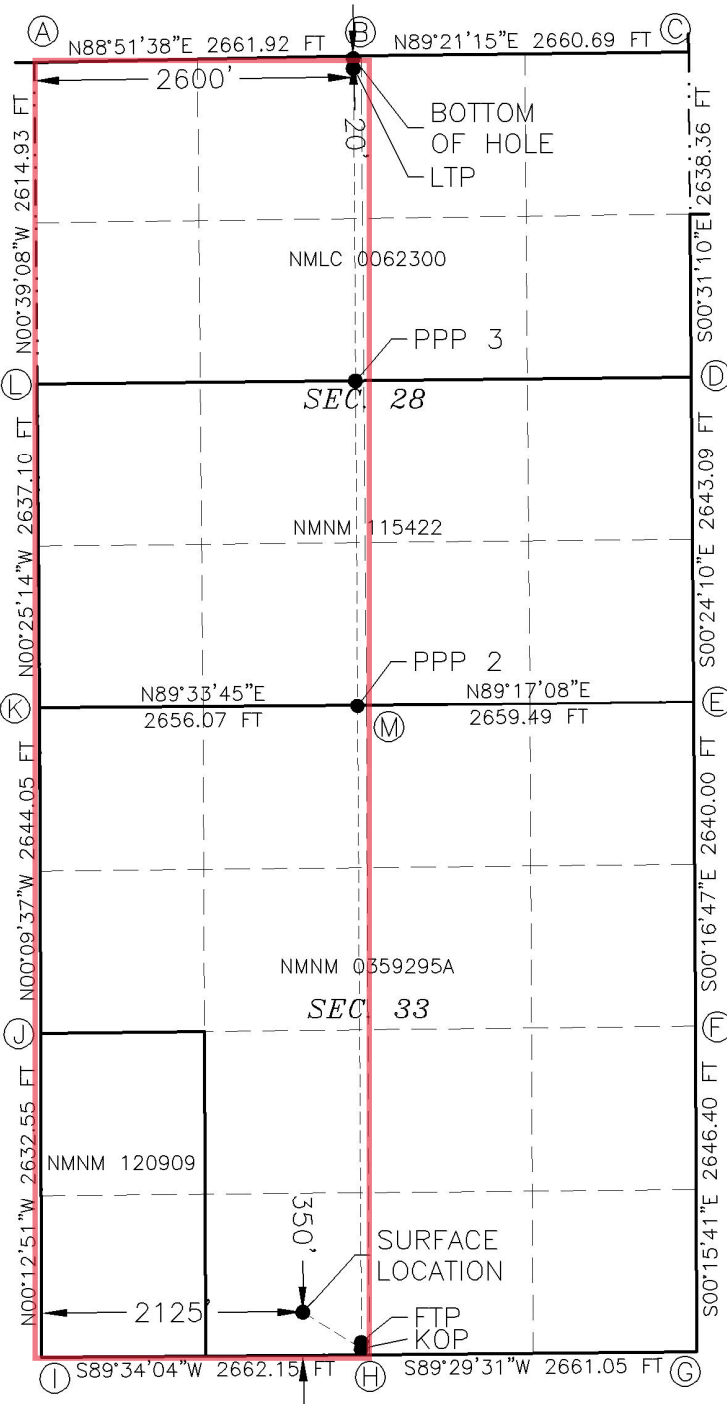
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Comment
12800.00	90.00	359.64	9177.00	3526.69	452.21	3542.04	0.00	
12900.00	90.00	359.64	9177.00	3626.69	451.59	3641.93	0.00	
13000.00	90.00	359.64	9177.00	3726.68	450.97	3741.82	0.00	
13100.00	90.00	359.64	9177.00	3826.68	450.35	3841.72	0.00	
13200.00	90.00	359.64	9177.00	3926.68	449.73	3941.61	0.00	
13300.00	90.00	359.64	9177.00	4026.68	449.11	4041.50	0.00	
13400.00	90.00	359.64	9177.00	4126.68	448.49	4141.39	0.00	
13500.00	90.00	359.64	9177.00	4226.67	447.87	4241.28	0.00	
13600.00	90.00	359.64	9177.01	4326.67	447.24	4341.18	0.00	
13700.00	90.00	359.64	9177.01	4426.67	446.62	4441.07	0.00	
13800.00	90.00	359.64	9177.01	4526.67	446.00	4540.96	0.00	
13900.00	90.00	359.64	9177.01	4626.67	445.38	4640.85	0.00	
14000.00	90.00	359.64	9177.01	4726.66	444.76	4740.74	0.00	
14100.00	90.00	359.64	9177.01	4826.66	444.14	4840.64	0.00	
14200.00	90.00	359.64	9177.01	4926.66	443.52	4940.53	0.00	
14300.00	90.00	359.64	9177.01	5026.66	442.90	5040.42	0.00	
14400.00	90.00	359.64	9177.01	5126.66	442.27	5140.31	0.00	
14500.00	90.00	359.64	9177.01	5226.66	441.65	5240.20	0.00	
14600.00	90.00	359.64	9177.01	5326.65	441.03	5340.09	0.00	
14700.00	90.00	359.64	9177.01	5426.65	440.41	5439.99	0.00	
14800.00	90.00	359.64	9177.01	5526.65	439.79	5539.88	0.00	
14900.00	90.00	359.64	9177.01	5626.65	439.17	5639.77	0.00	
15000.00	90.00	359.64	9177.01	5726.65	438.55	5739.66	0.00	
15100.00	90.00	359.64	9177.01	5826.64	437.93	5839.55	0.00	
15200.00	90.00	359.64	9177.01	5926.64	437.31	5939.45	0.00	
15300.00	90.00	359.64	9177.01	6026.64	436.68	6039.34	0.00	
15400.00	90.00	359.64	9177.01	6126.64	436.06	6139.23	0.00	
15500.00	90.00	359.64	9177.01	6226.64	435.44	6239.12	0.00	
15600.00	90.00	359.64	9177.01	6326.63	434.82	6339.01	0.00	
15700.00	90.00	359.64	9177.01	6426.63	434.20	6438.91	0.00	
15800.00	90.00	359.64	9177.01	6526.63	433.58	6538.80	0.00	
15900.00	90.00	359.64	9177.01	6626.63	432.96	6638.69	0.00	
16000.00	90.00	359.64	9177.01	6726.63	432.34	6738.58	0.00	
16100.00	90.00	359.64	9177.01	6826.62	431.71	6838.47	0.00	
16200.00	90.00	359.64	9177.01	6926.62	431.09	6938.37	0.00	
16300.00	90.00	359.64	9177.01	7026.62	430.47	7038.26	0.00	
16400.00	90.00	359.64	9177.01	7126.62	429.85	7138.15	0.00	
16500.00	90.00	359.64	9177.01	7226.62	429.23	7238.04	0.00	
16600.00	90.00	359.64	9177.01	7326.61	428.61	7337.93	0.00	
16700.00	90.00	359.64	9177.01	7426.61	427.99	7437.82	0.00	
16800.00	90.00	359.64	9177.01	7526.61	427.37	7537.72	0.00	
16900.00	90.00	359.64	9177.01	7626.61	426.75	7637.61	0.00	
17000.00	90.00	359.64	9177.01	7726.61	426.12	7737.50	0.00	
17100.00	90.00	359.64	9177.01	7826.61	425.50	7837.39	0.00	
17200.00	90.00	359.64	9177.01	7926.60	424.88	7937.28	0.00	
17300.00	90.00	359.64	9177.01	8026.60	424.26	8037.18	0.00	
17400.00	90.00	359.64	9177.01	8126.60	423.64	8137.07	0.00	
17500.00	90.00	359.64	9177.01	8226.60	423.02	8236.96	0.00	
17600.00	90.00	359.64	9177.01	8326.60	422.40	8336.85	0.00	
17700.00	90.00	359.64	9177.01	8426.59	421.78	8436.74	0.00	
17800.00	90.00	359.64	9177.01	8526.59	421.15	8536.64	0.00	
17900.00	90.00	359.64	9177.01	8626.59	420.53	8636.53	0.00	
18000.00	90.00	359.64	9177.01	8726.59	419.91	8736.42	0.00	
18100.00	90.00	359.64	9177.01	8826.59	419.29	8836.31	0.00	
18200.00	90.00	359.64	9177.01	8926.58	418.67	8936.20	0.00	
18300.00	90.00	359.64	9177.01	9026.58	418.05	9036.10	0.00	
18400.00	90.00	359.64	9177.01	9126.58	417.43	9135.99	0.00	
18500.00	90.00	359.64	9177.01	9226.58	416.81	9235.88	0.00	
18600.00	90.00	359.64	9177.01	9326.58	416.19	9335.77	0.00	
18700.00	90.00	359.64	9177.01	9426.57	415.56	9435.66	0.00	
18800.00	90.00	359.64	9177.01	9526.57	414.94	9535.55	0.00	
18900.00	90.00	359.64	9177.01	9626.57	414.32	9635.45	0.00	
19000.00	90.00	359.64	9177.01	9726.57	413.70	9735.34	0.00	
19100.00	90.00	359.64	9177.01	9826.57	413.08	9835.23	0.00	
19200.00	90.00	359.64	9177.01	9926.56	412.46	9935.12	0.00	
19300.00	90.00	359.64	9177.01	10026.56	411.84	10035.01	0.00	
19385.82	90.00	359.64	9177.01	10112.38	411.30	10120.74	0.00	exit
19400.00	90.00	359.64	9177.01	10126.56	411.22	10134.91	0.00	
19465.82	90.00	359.64	9177.00	10192.38	410.86	10200.66	0.00	BHL



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.

VAN DOO DAH 33-28 FED COM 520H  
 EL. = 3318.6



GEODETIC COORDINATES  
 NAD 83 NMSP EAST  
 SURFACE LOCATION  
 350' FSL, 2125' FWL  
 N. = 393669.19  
 E. = 743125.68  
 LAT. = 32.0806012°N  
 LONG. = 103.6818142°W

KICK OFF POINT 50' FSL, 2600' FWL N. = 393373.32 E. = 743601.56 LAT. = 32.0797799°N LONG. = 103.6802836°W	FIRST TAKE POINT (PPP 1) 100' FSL, 2600' FWL N. = 393423.31 E. = 743601.40 LAT. = 32.0799174°N LONG. = 103.6802832°W
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LAST TAKE POINT 100' FNL, 2600' FWL N. = 403781.59 E. = 743537.45 LAT. = 32.1083911°N LONG. = 103.6802871°W	BOTTOM OF HOLE 20' FNL, 2600' FWL N. = 403861.57 E. = 743536.54 LAT. = 32.1086110°N LONG. = 103.6802885°W
--	--

PPP 2 0' FNL, 2548' FWL N. = 398598.94 E. = 743569.44 LAT. = 32.0941446°N LONG. = 103.6802851°W	PPP 3 2645' FSL, 2587' FWL N. = 401243.31 E. = 743553.12 LAT. = 32.1014137°N LONG. = 103.6802862°W
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CORNER COORDINATES TABLE  
 NAD 83 NMSP EAST

A - N. = 403829.87	E. = 740937.30
B - N. = 403882.79	E. = 743598.11
C - N. = 403912.78	E. = 746258.05
D - N. = 401272.46	E. = 746280.66
E - N. = 398632.65	E. = 746300.54
F - N. = 395993.26	E. = 746313.42
G - N. = 393347.47	E. = 746325.50
H - N. = 393323.87	E. = 743665.13
I - N. = 393301.16	E. = 741002.34
J - N. = 395935.76	E. = 740993.81
K - N. = 398579.22	E. = 740986.41
L - N. = 401215.68	E. = 740967.06
M - N. = 398599.50	E. = 743641.83

LEGEND

- SECTION LINE
- - - - - QUARTER LINE
- \_\_\_\_\_ LEASE LINE
- - - - - WELL PATH

Sundry ID 2876887.xlsm

Van Doo Dah 33-28 Fed Com 520H

13 3/8		surface csg in a		17 1/2		inch hole.		Design Factors				Surface	
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	54.50		j 55	btc	19.97	3.08	1.12	784	8	1.88	5.82	42,728	
"B"				btc				0				0	
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500								Totals:	784			42,728	
Comparison of Proposed to Minimum Required Cement Volumes Tail Cmt does not circ to sfc.													
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg	
17 1/2	0.6946	638	919	545	69	9.00	1453	2M				1.56	

The plot (pipe racks 3 or 4) as per D 3.1.30, D 4.1, not found

8 5/8		casing inside the		13 3/8		Design Factors				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	32.00		j 55	geoconn	2.89	1.04	0.79	4,464	2	1.32	1.74	142,848
"B"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 803								Totals:	4,464			142,848
The cement volume(s) are intended to achieve a top of 0 ft from surface or a 784 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
9 7/8	0.1261	341	992	827	20	10.50	2987	3M				0.44
r D V Tool(s):								sum of sx	Σ CuFt			Σ%excess
t by stage % :								341	992			20
Class 'C' tail cmt yld > 1.35												
Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.88, b, c, d All > 0.70, OK.												

5 1/2		casing inside the		8 5/8		Design Factors				Prod 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	20.00		p 110	dwc/c is+	3.97	2.42	2.87	19,466	3	4.81	4.05	389,320
"B"								0				0
"C"								0				0
"D"								0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,019								Totals:	19,466			389,320
The cement volume(s) are intended to achieve a top of 4264 ft from surface or a 200 overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
7 7/8	0.1733	1704	2953	2635	12	10.50						0.79
Class 'C' tail cmt yld > 1.35												

0		#N/A		5 1/2		Design Factors				<Choose Casing>		
Segment	#/ft	Grade		Coupling	#N/A	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"				0.00				0				0
"B"				0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig:								Totals:	0			0
Cmt vol calc below includes this csg, TOC intended #N/A ft from surface or a #N/A overlap.												
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE				Min Dist Hole-Cplg
0		#N/A	#N/A	0	#N/A							
#N/A Capitan Reef est top XXXX.												



Devon Energy Corporation  
333 W. Sheridan Avenue  
Oklahoma City, OK 73102-8260

405 228 2448 Phone  
www.devonenergy.com

January 13th, 2026

COG Production, LLC  
600 W. Illinois Ave.  
Midland, TX 79701

Re: Overlapping Spacing Unit – Van Doo Dah Wells  
Sections 28 & 33, T25S-R32E  
Lea County, NM

Mr. Virant,

In letters dated January 9, 2026, Devon Energy Production Company, L.P. (“Devon”) notified COG Production LLC (“COG”) that it is planning to drill the Van Doo Dah 33-28 Fed Com wells (listed on the Exhibit “A” attached) in Sections 28 & 33 – 25S – 32E, Lea County, New Mexico. The planned Van Doo Dah wells will produce from the Jennings, Bone Spring Upper Pool (97838) in either a proposed W/2 of Sections 28 & 33 or an E/2 of Sections 28 & 33 spacing unit. Devon notified COG due to the proposed spacing units for the Van Doo Dah Wells overlapping the established horizontal spacing unit in the Bone Spring pool comprised of the N/2 S/2 of Section 28-25S-32E currently dedicated to the Sol 28 Federal 2H well (API 30-025-40803), operated by COG Production, LLC.

Devon respectfully requests COG waive objection to this overlapping spacing unit. If you are in agreement, please indicate your acceptance and agreement by executing in the space below.

Should you have any questions, please feel free to contact me at [ryan.cloer@dvn.com](mailto:ryan.cloer@dvn.com) or by phone at 405-228-2448.

Sincerely,

**Devon Energy Production Company, L.P.**

Ryan Cloer  
Landman

Re: Overlapping Spacing Unit - Van Doo Dah Wells - Sec. 28 & 33 - 25S - 32E

COG Production LLC waives objection to the proposed overlapping spacing units for the Van Doo Dah wells in the Jennings, Bone Spring Upper Pool (97838) identified as either the W/2 of Sections 28 & 33 – 25S -32E or as the E/2 of Sections 28 & 33 – 25S – 32E, Lea County, New Mexico.

COG Production LLC




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By: Garrett B. Haag  
Its: Attorney-in-fact

**Exhibit "A"**  
(the "Van Doo Dah wells")

Spacing Unit: W/2 Sections 28 & 33 – 25S – 32E, Lea County, NM

1. Van Doo Dah 33-28 Fed Com 501H
2. Van Doo Dah 33-28 Fed Com 521H
3. Van Doo Dah 33-28 Fed Com 522H
4. Van Doo Dah 33-28 Fed Com 524H
5. Van Doo Dah 33-28 Fed Com 512H
6. Van Doo Dah 33-28 Fed Com 525H
7. Van Doo Dah 33-28 Fed Com 520H

Spacing Unit: E/2 Sections 28 & 33 – 25S – 32E, Lea County, NM

1. Van Doo Dah 33-28 Fed Com 513H
2. Van Doo Dah 33-28 Fed Com 526H
3. Van Doo Dah 33-28 Fed Com 527H
4. Van Doo Dah 33-28 Fed Com 528H
5. Van Doo Dah 33-28 Fed Com 529H
6. Van Doo Dah 33-28 Fed Com 530H

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

General Information  
Phone: (505) 629-6116

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

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

CONDITIONS

Action 531948

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 531948
	Action Type: [C-103] NOI Change of Plans (C-103A)

**CONDITIONS**

Created By	Condition	Condition Date
matthew.gomez	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	1/20/2026
matthew.gomez	If cement does not circulate to surface on any string, a Cement Bond Log (CBL) is required for that string of casing. If a CBL is unable to indicate sufficient cement coverage due to a lighter cement, a USI log may also be required. If strata isolation is not achieved, remediation will be required before further operations may commence.	1/20/2026
matthew.gomez	Cement must be in place for at least eight hours and achieve a minimum compressive strength of 500 PSI before performing any further operations on the well.	1/20/2026
matthew.gomez	All previous COA's still apply.	1/20/2026