

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

Sundry Print Reports

Well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: EDDY /

SWNE / 32.101854 / -103.72877

Well Number: 827H Type of Well: OIL WELL Allottee or Tribe Name:

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

US Well Number: 3001555756 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2831363

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/13/2025 Time Sundry Submitted: 10:19

Date proposed operation will begin: 01/14/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests a BHL move, and depth / formation change to the subject well. In additional we also request changes to the drilling plan with casing changes and slim hole design. Please see attached revised C102, Drill plan, and directional plan. Permitted BHL: NWNE, 20 FNL, 2310 FEL, 13-25S-31E Proposed BHL: NENW, 20 FNL, 2300 FWL, 13-25S-31E Proposed BHL: NENW, 20 FNL, 2300 FWL, 13-25S-31E Permitted TVD/MD: 12458/25507- Purple Sage/Wolfcamp Proposed TVD/MD: 11000/23991-Paduca, Jennings/Bone Spring

NOI Attachments

Procedure Description

MORGAN_25_13_FED_COM_827H_rev1_20250127143046.pdf

5.5_20lb_P110HP_TALON_RD_20250113101526.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20250113101507.pdf

9.625_40lb_J55_SeAH_20250113101423.pdf

MORGAN_25_13_FED_COM_827H_Directional_Plan_11_21_24_20250113101358.pdf

WA022390588_MORGAN_25_13_FED_COM_827H_WL_R1_SIGNED_20250113101327.pdf

well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: EDDY? of

SWNE / 32.101854 / -103.72877

Well Number: 827H Allottee or Tribe Name: Type of Well: OIL WELL

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

US Well Number: 3001555756 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Morgan 25 13 Fed Com 827H Sundry ID 2831363 20250129152409.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: JAN 27, 2025 02:30 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: 01/29/2025

Signature: Long Vo

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BUREAU OF LAND MANAGEMENT				5. Lease Serial No.			
Do not use this t	OTICES AND REPO form for proposals to Use Form 3160-3 (AF	drill or to re-	enter an	6. If Indian, Allottee or Tribe Name			
SUBMIT IN	TRIPLICATE - Other instruc	ctions on page 2		7. If Unit of CA/Agreement, Name and/or No.			
1. Type of Well Oil Well Gas V	Vell Other	8. Well Name and No.					
2. Name of Operator				9. API Well No.			
3a. Address	í	3b. Phone No. (include	de area code)	10. Field and Pool or Explora	atory Area		
4. Location of Well (Footage, Sec., T., F	R.,M., or Survey Description)			11. Country or Parish, State			
12. CHE	CK THE APPROPRIATE BO	X(ES) TO INDICAT	E NATURE (OF NOTICE, REPORT OR OT			
TYPE OF SUBMISSION			TYPI	E OF ACTION			
Notice of Intent	Acidize Alter Casing	Deepen Hydraulic F	Fracturing [Production (Start/Resume) Reclamation) Water Shut-Off Well Integrity		
Subsequent Report	Casing Repair	New Constr		Recomplete	Other		
	Change Plans	Plug and Al	bandon	Temporarily Abandon			
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal	work and approximate duration thereof. If		
completed. Final Abandonment No is ready for final inspection.) 14. I hereby certify that the foregoing is			uding reciama	tion, nave been completed and	the operator has detennined that the site		
14. I hereby certify that the foregoing is	true and correct. Ivame (Frin	Title					
Signature		Date					
	THE SPACE	FOR FEDERA	L OR STA	TE OFICE USE			
Approved by							
			Title		Date		
Conditions of approval, if any, are attact certify that the applicant holds legal or of which would entitle the applicant to cor	equitable title to those rights in		Office				
Title 18 U.S.C Section 1001 and Title 4.	3 U.S.C Section 1212, make it	t a crime for any pers	son knowingly	and willfully to make to any o	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, 3162.3-4.

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2433 FNL / 1770 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101854 / LONG: -103.72877 (TVD: 0 feet, MD: 0 feet) PPP: SWNE / 2538 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101563 / LONG: -103.730514 (TVD: 11645 feet, MD: 11693 feet) PPP: SWSE / 159 FSL / 2307 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.1234882 / LONG: -103.7304855 (TVD: 12489 feet, MD: 20400 feet) PPP: SWNE / 2441 FNL / 2308 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1163414 / LONG: -103.7304943 (TVD: 12505 feet, MD: 17800 feet) PPP: SWSE / 138 FSL / 2311 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1089196 / LONG: -103.7305035 (TVD: 12521 feet, MD: 15100 feet) BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.137526 / LONG: -103.730468 (TVD: 12458 feet, MD: 25507 feet)

MORGAN 25-13 FED COM 827H

1. Geologic Formations

TVD of target	11000	Pilot hole dep	oth	N/A
MD at TD:	23992	Deepest expe	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	945		
Salt	1355		
Base of Salt	4052		
Delaware	4358		
Cherry Canyon	5321		
Brushy Canyon	6754		
Bone Spring 1st	9341		
Bone Spring 2nd	9976		
Bone Spring 3rd	10421		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	ВТС	0	970	0	970
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	10442	0	10442
6 3/4	5 1/2	20	P110HP	TALON RD	0	23992	0	11000

[•]All casing strings will be tested in accordance with 43 CFR 3172.

3. Cementing Program (Primary Design)

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

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	512	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	378	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	336	6822	13.2	1.44	Tail: Class H / C + additives
Production	62	8544	9	3.27	Lead: Class H /C + additives
Froduction	858	10544	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%
Prod	10%

2. Casing Program (Secondary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	970	0	970
9 7/8	8 5/8	32	P110	Sprint FJ	0	10442	0	10442
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	23992	0	11000

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

3. Cementing Program (Secondary Design)

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

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	586	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	478	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	422	6822	13.2	1.44	Tail: Class H / C + additives
Production	117	8544	9	3.27	Lead: Class H /C + additives
Froduction	1780	10544	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%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
			Anı	Annular		50% of rated working pressure
Int 1	13-5/8"	5M	Blind	d Ram	X	
IIIt 1	13-3/0	3141	Pipe	Ram		5M
			Doub	le Ram	X	3111
			Other*			
			Annular (5M)		X	50% of rated working
	13-5/8"	5M			71	pressure
Production			Blind Ram		X	5M
Troduction		3141	Pipe Ram			
			Doub	le Ram	X	J1V1
			Other*			
			Annul	ar (5M)		
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other*			
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schema	ntic.
Y A variance is requested to r	un a 5 M ai	nnular on a 10M s	system			

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6006
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.
- The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attachn	nents
X	Directional Plan
	Other, describe

2/21/2024 7:48:59 AM

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

P110 HP USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	13,150	13,150	psi	
Minimum Internal Yield Pressure	14,360	14,360	psi	
Minimum Pipe Body Yield Strength	729,000		lb	
Joint Strength		729,000	lb	
Compression Rating		729,000	lb	
Reference Length		24,300	ft	[5]
Maximum Uniaxial Bend Rating		104.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		18,400	ft-lb	[4]
Maximum Make-Up Torque		21,400	ft-lb	[4]
Maximum Operating Torque		44,400	ft-lb	[4]

Notes

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

Legal Notice

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

[4]

U. S. Steel Tubular Products 7.625" 29.70lb/ft (0.375" Wall)

5/15/2024 6:31:14 PM

USS-TALON SFC™

MECHANICAL PROPERTIES USS-TALON SFC™ **Pipe** [6] Minimum Yield Strength 125,000 psi Maximum Yield Strength 140,000 psi Minimum Tensile Strength 130.000 psi **DIMENSIONS USS-TALON SFC™ Pipe** Outside Diameter 7.625 7 900 in. Wall Thickness 0.375 in. Inside Diameter 6.875 6.815 in. Standard Drift 6.750 6.750 in. Alternate Drift in. Nominal Linear Weight, T&C 29.70 lb/ft Plain End Weight 29.06 lb/ft **SECTION AREA** Pipe **USS-TALON SFC™** 8.541 7.331 Critical Area sq. in. Joint Efficiency 85.8 % [2] **PERFORMANCE** USS-TALON SFC™ Pipe Minimum Collapse Pressure 7.260 7.260 psi Minimum Internal Yield Pressure 10.750 10.750 psi Minimum Pipe Body Yield Strength 1.068.000 lb Joint Strength 916,000 lb Compression Rating 916,000 lb 20,560 ft Reference Length [5] [3] Maximum Uniaxial Bend Rating 64.4 deg/100 ft MAKE-UP DATA USS-TALON SFC™ Pipe Make-Up Loss 5.08 in. Minimum Make-Up Torque 30,000 ft-lb [4] Maximum Make-Up Torque 33.000 ft-lb [4]

P110 HP

Notes

1. Other than proprietary collapse and connection values, performance properties have been calculated using standard equations defined by API 5C3 and do not incorporate any additional design or safety factors. Calculations assume nominal pipe OD, nominal wall thickness, and Specified Minimum Yield Strength (SMYS).

80,500

- 2. Joint efficiencies are calculated by dividing the connection critical area by the pipe body area.
- Uniaxial bend rating shown is structural only.

Maximum Operating Torque

- 4. Torques have been calculated assuming a thread compound friction factor of 1.0 and are recommended only. Field make-up torques may require adjustment based on actual field conditions (e.g. make-up speed, temperature, thread compound, etc.).
- 5. Reference length is calculated by Joint Strength divided by Nominal Linear Weight, T&C with a 1.5 Safety factor.
- Coupling must meet minimum mechanical properties of the pipe.

Legal Notice

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

ft-lb



9.625" 40# .395" J-55

Dimensions (Nominal)

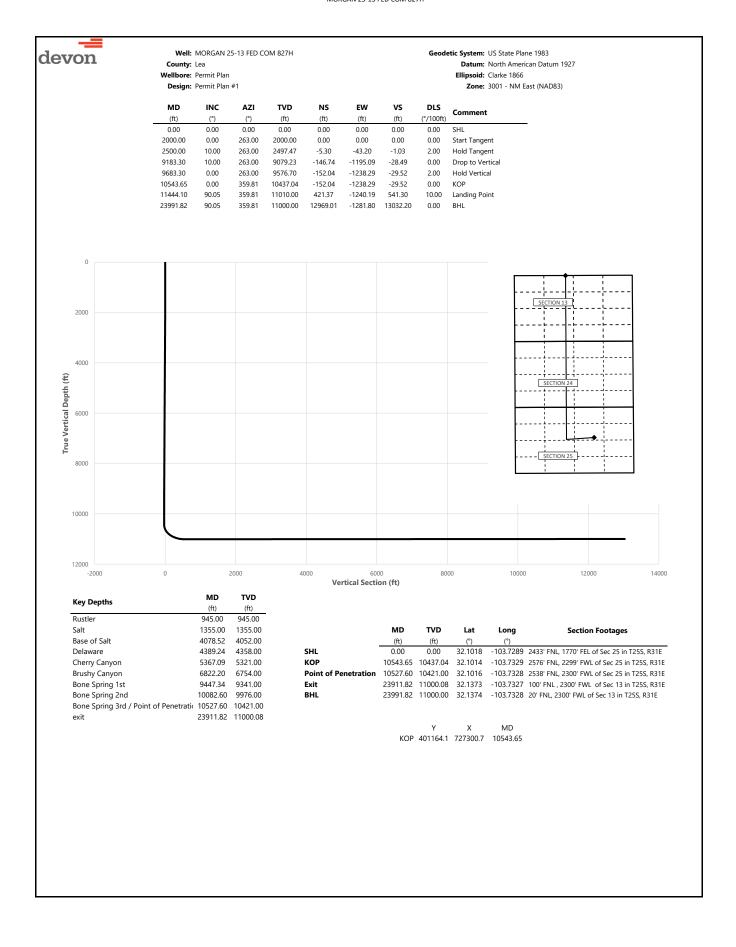
BTC

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.
weight, FL	36.370	105./11.
Performance Properties		
Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
втс	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	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.

714

1000 lbs.





Well: MORGAN 25-13 FED COM 827H County: Lea

Wellbore: Permit Plan

Geodetic System: US State Plane 1983

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

		Permit Plan						Zone: 3001 - NM East (NAD83)
	Design.	r crimer ian						Zone. 3001 MM East (MADOS)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	263.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	263.00	200.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	263.00 263.00	300.00 400.00	0.00	0.00	0.00	0.00	
500.00	0.00	263.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	263.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	263.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	263.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	263.00	900.00	0.00	0.00	0.00	0.00	
945.00	0.00	263.00	945.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	263.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	263.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	263.00 263.00	1200.00	0.00	0.00	0.00	0.00	
1300.00 1355.00	0.00	263.00	1300.00 1355.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	263.00	1400.00	0.00	0.00	0.00	0.00	Sait
1500.00	0.00	263.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	263.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	263.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	263.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	263.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	263.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	263.00	2099.98	-0.21	-1.73	-0.04	2.00	
2200.00	4.00	263.00	2199.84	-0.85	-6.93	-0.17	2.00	
2300.00	6.00	263.00	2299.45	-1.91	-15.58	-0.37	2.00	
2400.00	8.00	263.00	2398.70 2497.47	-3.40	-27.67	-0.66	2.00	Hald Tanana
2500.00 2600.00	10.00 10.00	263.00 263.00	2497.47 2595.95	-5.30 -7.42	-43.20 -60.43	-1.03 -1.44	2.00 0.00	Hold Tangent
2700.00	10.00	263.00	2694.43	-9.54	-77.67	-1.85	0.00	
2800.00	10.00	263.00	2792.91	-11.65	-94.90	-2.26	0.00	
2900.00	10.00	263.00	2891.39	-13.77	-112.14	-2.67	0.00	
3000.00	10.00	263.00	2989.87	-15.89	-129.37	-3.08	0.00	
3100.00	10.00	263.00	3088.35	-18.00	-146.61	-3.49	0.00	
3200.00	10.00	263.00	3186.83	-20.12	-163.85	-3.91	0.00	
3300.00	10.00	263.00	3285.31	-22.23	-181.08	-4.32	0.00	
3400.00	10.00	263.00	3383.79	-24.35	-198.32	-4.73	0.00	
3500.00	10.00	263.00	3482.27	-26.47	-215.55	-5.14	0.00	
3600.00	10.00	263.00	3580.75	-28.58	-232.79	-5.55	0.00	
3700.00	10.00	263.00	3679.23	-30.70	-250.02	-5.96	0.00	
3800.00 3900.00	10.00 10.00	263.00 263.00	3777.72 3876.20	-32.82 -34.93	-267.26 -284.49	-6.37 -6.78	0.00	
4000.00	10.00	263.00	3974.68	-37.05	-301.73	-7.19	0.00	
4078.52	10.00	263.00	4052.00	-38.71	-315.26	-7.51	0.00	Base of Salt
4100.00	10.00	263.00	4073.16	-39.16	-318.96	-7.60	0.00	
4200.00	10.00	263.00	4171.64	-41.28	-336.20	-8.01	0.00	
4300.00	10.00	263.00	4270.12	-43.40	-353.43	-8.42	0.00	
4389.24	10.00	263.00	4358.00	-45.29	-368.81	-8.79	0.00	Delaware
4400.00	10.00	263.00	4368.60	-45.51	-370.67	-8.83	0.00	
4500.00	10.00	263.00	4467.08	-47.63	-387.91	-9.25	0.00	
4600.00	10.00	263.00	4565.56	-49.75 51.86	-405.14	-9.66 10.07	0.00	
4700.00 4800.00	10.00 10.00	263.00 263.00	4664.04 4762.52	-51.86 -53.98	-422.38 -439.61	-10.07 -10.48	0.00	
4900.00	10.00	263.00	4861.00	-53.96 -56.10	-439.61 -456.85	-10.48	0.00	
5000.00	10.00	263.00	4959.48	-58.21	-474.08	-10.89	0.00	
5100.00	10.00	263.00	5057.97	-60.33	-491.32	-11.71	0.00	
5200.00	10.00	263.00	5156.45	-62.44	-508.55	-12.12	0.00	
5300.00	10.00	263.00	5254.93	-64.56	-525.79	-12.53	0.00	
5367.09	10.00	263.00	5321.00	-65.98	-537.35	-12.81	0.00	Cherry Canyon
5400.00	10.00	263.00	5353.41	-66.68	-543.02	-12.94	0.00	
5500.00	10.00	263.00	5451.89	-68.79	-560.26	-13.35	0.00	
5600.00	10.00	263.00	5550.37	-70.91	-577.49	-13.76	0.00	
5700.00	10.00	263.00	5648.85	-73.03	-594.73	-14.18	0.00	
5800.00	10.00	263.00	5747.33	-75.14 77.26	-611.97	-14.59 15.00	0.00	
5900.00 6000.00	10.00 10.00	263.00 263.00	5845.81 5944.29	-77.26 -79.37	-629.20 -646.44	-15.00 -15.41	0.00	
6100.00	10.00	263.00	6042.77	-79.37 -81.49	-663.67	-15.82	0.00	
6200.00	10.00	263.00	6141.25	-83.61	-680.91	-16.23	0.00	
6300.00	10.00	263.00	6239.73	-85.72	-698.14	-16.64	0.00	
6400.00	10.00	263.00	6338.22	-87.84	-715.38	-17.05	0.00	



Well: MORGAN 25-13 FED COM 827H

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)

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS				
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment			
6500.00	10.00	263.00	6436.70	-89.96	-732.61	-17.46	0.00				
6600.00	10.00	263.00	6535.18	-92.07	-749.85	-17.87	0.00				
6700.00	10.00	263.00	6633.66	-94.19	-767.08	-18.28	0.00				
6800.00	10.00	263.00	6732.14	-96.31	-784.32	-18.69	0.00				
6822.20	10.00	263.00	6754.00	-96.77	-788.14	-18.79	0.00	Brushy Canyon			
6900.00	10.00	263.00	6830.62	-98.42	-801.55	-19.11	0.00				
7000.00	10.00	263.00	6929.10	-100.54	-818.79	-19.52	0.00				
7100.00 7200.00	10.00 10.00	263.00 263.00	7027.58 7126.06	-102.65 -104.77	-836.02 -853.26	-19.93 -20.34	0.00				
7300.00	10.00	263.00	7224.54	-104.77	-870.50	-20.34	0.00				
7400.00	10.00	263.00	7323.02	-109.00	-887.73	-21.16	0.00				
7500.00	10.00	263.00	7421.50	-111.12	-904.97	-21.57	0.00				
7600.00	10.00	263.00	7519.99	-113.24	-922.20	-21.98	0.00				
7700.00	10.00	263.00	7618.47	-115.35	-939.44	-22.39	0.00				
7800.00	10.00	263.00	7716.95	-117.47	-956.67	-22.80	0.00				
7900.00	10.00	263.00	7815.43	-119.58	-973.91	-23.21	0.00				
8000.00	10.00	263.00	7913.91	-121.70	-991.14	-23.62	0.00				
8100.00	10.00	263.00	8012.39	-123.82	-1008.38	-24.04	0.00				
8200.00	10.00	263.00	8110.87	-125.93	-1025.61	-24.45	0.00				
8300.00	10.00	263.00	8209.35	-128.05	-1042.85	-24.86	0.00				
8400.00	10.00	263.00	8307.83	-130.17	-1060.08	-25.27 25.68	0.00				
8500.00 8600.00	10.00 10.00	263.00 263.00	8406.31 8504.79	-132.28 -134.40	-1077.32 -1094.56	-25.68 -26.09	0.00				
8700.00	10.00	263.00	8603.27	-134.40	-1111.79	-26.50	0.00				
8800.00	10.00	263.00	8701.75	-138.63	-1129.03	-26.91	0.00				
8900.00	10.00	263.00	8800.24	-140.75	-1146.26	-27.32	0.00				
9000.00	10.00	263.00	8898.72	-142.86	-1163.50	-27.73	0.00				
9100.00	10.00	263.00	8997.20	-144.98	-1180.73	-28.14	0.00				
9183.30	10.00	263.00	9079.23	-146.74	-1195.09	-28.49	0.00	Drop to Vertical			
9200.00	9.67	263.00	9095.69	-147.09	-1197.92	-28.55	2.00				
9300.00	7.67	263.00	9194.54	-148.92	-1212.88	-28.90	2.00				
9400.00	5.67	263.00	9293.86	-150.34	-1224.40	-29.18	2.00				
9447.34	4.72	263.00	9341.00	-150.86	-1228.65	-29.28	2.00	Bone Spring 1st			
9500.00	3.67	263.00	9393.52	-151.33	-1232.47	-29.37	2.00				
9600.00 9683.30	1.67 0.00	263.00 263.00	9493.41 9576.70	-151.90 -152.04	-1237.09 -1238.29	-29.48 -29.52	2.00 2.00	Hold Vertical			
9700.00	0.00	359.81	9593.40	-152.04	-1238.29	-29.52	0.00	Hold Vertical			
9800.00	0.00	359.81	9693.40	-152.04	-1238.29	-29.51	0.00				
9900.00	0.00	359.81	9793.40	-152.04	-1238.29	-29.51	0.00				
10000.00	0.00	359.81	9893.40	-152.04	-1238.29	-29.51	0.00				
10082.60	0.00	359.81	9976.00	-152.04	-1238.29	-29.51	0.00	Bone Spring 2nd			
10100.00	0.00	359.81	9993.40	-152.04	-1238.29	-29.51	0.00				
10200.00	0.00	359.81	10093.40	-152.04	-1238.29	-29.51	0.00				
10300.00	0.00	359.81	10193.40	-152.04	-1238.29	-29.51	0.00				
10400.00	0.00	359.81	10293.40	-152.04	-1238.29	-29.51	0.00				
10500.00	0.00	359.81	10393.40	-152.04	-1238.29	-29.51	0.00	Page Carrier 2nd / Daint of Departments			
10527.60	0.00	359.81	10421.00	-152.04 152.04	-1238.29	-29.51	0.00	Bone Spring 3rd / Point of Penetration KOP			
10543.65 10600.00	0.00 5.64	359.81 359.81	10437.04 10493.31	-152.04 -149.27	-1238.29 -1238.30	-29.52 -26.75	0.00 10.00	NOF			
10700.00	15.64	359.81 359.81	10493.31	-149.27	-1238.36	-26.75 -8.40	10.00				
10800.00	25.64	359.81	10684.93	-95.64	-1238.48	26.63	10.00				
10900.00	35.64	359.81	10770.86	-44.75	-1238.65	77.30	10.00				
11000.00	45.64	359.81	10846.65	20.29	-1238.86	142.04	10.00				
11100.00	55.64	359.81	10910.00	97.50	-1239.12	218.91	10.00				
11200.00	65.64	359.81	10958.97	184.54	-1239.41	305.55	10.00				
11300.00	75.64	359.81	10992.09	278.77	-1239.72	399.35	10.00				
11400.00	85.64	359.81	11008.34	377.31	-1240.05	497.45	10.00				
11444.10	90.05	359.81	11010.00	421.37	-1240.19	541.30	10.00	Landing Point			
11500.00	90.05	359.81	11009.96	477.27	-1240.38	596.95	0.00				
11600.00 11700.00	90.05 90.05	359.81 359.81	11009.88 11009.80	577.27 677.26	-1240.71 -1241.04	696.50 796.05	0.00				
11700.00	90.05	359.81	11009.80	777.26	-1241.04	895.59	0.00				
11900.00	90.05	359.81	11009.72	877.26	-1241.70	995.14	0.00				
12000.00	90.05	359.81	11009.56	977.26	-1242.04	1094.69	0.00				
12100.00	90.05	359.81	11009.48	1077.26	-1242.37	1194.24	0.00				
12200.00	90.05	359.81	11009.40	1177.26	-1242.70	1293.78	0.00				
12300.00	90.05	359.81	11009.32	1277.26	-1243.03	1393.33	0.00				
12400.00	90.05	359.81	11009.24	1377.26	-1243.37	1492.88	0.00				
12500.00	90.05	359.81	11009.16	1477.26	-1243.70	1592.42	0.00				
12600.00	90.05	359.81	11009.08	1577.26	-1244.03	1691.97	0.00				



Well: MORGAN 25-13 FED COM 827H

County: Lea Wellbore: Permit Plan

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

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

	Design: Permit Plan #1						Zone: 3001 - NM East (NAD83)				
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment			
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)				
12700.00 12800.00	90.05 90.05	359.81 359.81	11009.00 11008.92	1677.26 1777.26	-1244.36 -1244.69	1791.52 1891.07	0.00				
12900.00	90.05	359.81	11008.32	1877.26	-1244.03	1990.61	0.00				
13000.00	90.05	359.81	11008.76	1977.26	-1245.36	2090.16	0.00				
13100.00	90.05	359.81	11008.68	2077.26	-1245.69	2189.71	0.00				
13200.00	90.05	359.81	11008.60	2177.26	-1246.02	2289.25	0.00				
13300.00	90.05	359.81	11008.52	2277.26	-1246.35	2388.80	0.00				
13400.00	90.05	359.81	11008.44	2377.25	-1246.69	2488.35	0.00				
13500.00	90.05	359.81	11008.36	2477.25	-1247.02	2587.90	0.00				
13600.00 13700.00	90.05 90.05	359.81 359.81	11008.29 11008.21	2577.25 2677.25	-1247.35 -1247.68	2687.44 2786.99	0.00				
13800.00	90.05	359.81	11008.21	2777.25	-1247.00	2886.54	0.00				
13900.00	90.05	359.81	11008.05	2877.25	-1248.35	2986.08	0.00				
14000.00	90.05	359.81	11007.97	2977.25	-1248.68	3085.63	0.00				
14100.00	90.05	359.81	11007.89	3077.25	-1249.01	3185.18	0.00				
14200.00	90.05	359.81	11007.81	3177.25	-1249.34	3284.73	0.00				
14300.00	90.05	359.81	11007.73	3277.25	-1249.68	3384.27	0.00				
14400.00	90.05	359.81	11007.65	3377.25	-1250.01	3483.82	0.00				
14500.00	90.05	359.81 359.81	11007.57	3477.25 3577.25	-1250.34 -1250.67	3583.37 3682.92	0.00				
14600.00 14700.00	90.05 90.05	359.81 359.81	11007.49 11007.41	3577.25 3677.25	-1250.67 -1251.00	3682.92 3782.46	0.00				
14800.00	90.05	359.81	11007.41	3777.25	-1251.00	3882.01	0.00				
14900.00	90.05	359.81	11007.35	3877.25	-1251.67	3981.56	0.00				
15000.00	90.05	359.81	11007.17	3977.25	-1252.00	4081.10	0.00				
15100.00	90.05	359.81	11007.09	4077.24	-1252.33	4180.65	0.00				
15200.00	90.05	359.81	11007.01	4177.24	-1252.67	4280.20	0.00				
15300.00	90.05	359.81	11006.93	4277.24	-1253.00	4379.75	0.00				
15400.00	90.05	359.81	11006.85	4377.24	-1253.33	4479.29	0.00				
15500.00 15600.00	90.05 90.05	359.81 359.81	11006.77 11006.69	4477.24 4577.24	-1253.66 -1253.99	4578.84 4678.39	0.00				
15700.00	90.05	359.81	11006.63	4677.24	-1254.33	4777.93	0.00				
15800.00	90.05	359.81	11006.53	4777.24	-1254.66	4877.48	0.00				
15900.00	90.05	359.81	11006.46	4877.24	-1254.99	4977.03	0.00				
16000.00	90.05	359.81	11006.38	4977.24	-1255.32	5076.58	0.00				
16100.00	90.05	359.81	11006.30	5077.24	-1255.65	5176.12	0.00				
16200.00	90.05	359.81	11006.22	5177.24	-1255.99	5275.67	0.00				
16300.00	90.05	359.81	11006.14	5277.24	-1256.32 -1256.65	5375.22	0.00				
16400.00 16500.00	90.05 90.05	359.81 359.81	11006.06 11005.98	5377.24 5477.24	-1256.65	5474.76 5574.31	0.00				
16600.00	90.05	359.81	11005.90	5577.24	-1257.32	5673.86	0.00				
16700.00	90.05	359.81	11005.82	5677.24	-1257.65	5773.41	0.00				
16800.00	90.05	359.81	11005.74	5777.23	-1257.98	5872.95	0.00				
16900.00	90.05	359.81	11005.66	5877.23	-1258.31	5972.50	0.00				
17000.00	90.05	359.81	11005.58	5977.23	-1258.64	6072.05	0.00				
17100.00	90.05	359.81	11005.50	6077.23	-1258.98	6171.60	0.00				
17200.00	90.05	359.81	11005.42	6177.23	-1259.31	6271.14	0.00				
17300.00 17400.00	90.05 90.05	359.81 359.81	11005.34 11005.26	6277.23 6377.23	-1259.64 -1259.97	6370.69 6470.24	0.00				
17500.00	90.05	359.81	11005.26	6477.23	-1259.97	6569.78	0.00				
17600.00	90.05	359.81	11005.10	6577.23	-1260.50	6669.33	0.00				
17700.00	90.05	359.81	11005.02	6677.23	-1260.97	6768.88	0.00				
17800.00	90.05	359.81	11004.94	6777.23	-1261.30	6868.43	0.00				
17900.00	90.05	359.81	11004.86	6877.23	-1261.63	6967.97	0.00				
18000.00	90.05	359.81	11004.78	6977.23	-1261.97	7067.52	0.00				
18100.00	90.05	359.81	11004.70	7077.23	-1262.30	7167.07	0.00				
18200.00	90.05	359.81	11004.63	7177.23	-1262.63	7266.61	0.00				
18300.00 18400.00	90.05 90.05	359.81 359.81	11004.55 11004.47	7277.23 7377.23	-1262.96 -1263.29	7366.16	0.00				
18500.00	90.05	359.81	11004.47	7477.22	-1263.29 -1263.63	7465.71 7565.26	0.00				
18600.00	90.05	359.81	11004.33	7577.22	-1263.96	7664.80	0.00				
18700.00	90.05	359.81	11004.31	7677.22	-1264.29	7764.35	0.00				
18800.00	90.05	359.81	11004.15	7777.22	-1264.62	7863.90	0.00				
18900.00	90.05	359.81	11004.07	7877.22	-1264.95	7963.44	0.00				
19000.00	90.05	359.81	11003.99	7977.22	-1265.29	8062.99	0.00				
19100.00	90.05	359.81	11003.91	8077.22	-1265.62	8162.54	0.00				
19200.00	90.05	359.81	11003.83	8177.22	-1265.95	8262.09	0.00				
19300.00	90.05	359.81	11003.75	8277.22	-1266.28	8361.63	0.00				
19400.00 19500.00	90.05 90.05	359.81 359.81	11003.67 11003.59	8377.22 8477.22	-1266.62 -1266.95	8461.18 8560.73	0.00				
. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		359.81	11003.59	8577.22	-1266.95	8660.28	0.00				
19600.00	90.05										



Well: MORGAN 25-13 FED COM 827H

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

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

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	vs	DLS	C
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19700.00	90.05	359.81	11003.43	8677.22	-1267.61	8759.82	0.00	
19800.00	90.05	359.81	11003.35	8777.22	-1267.94	8859.37	0.00	
19900.00	90.05	359.81	11003.27	8877.22	-1268.28	8958.92	0.00	
20000.00	90.05	359.81	11003.19	8977.22	-1268.61	9058.46	0.00	
20100.00	90.05	359.81	11003.11	9077.22	-1268.94	9158.01	0.00	
20200.00	90.05	359.81	11003.03	9177.21	-1269.27	9257.56	0.00	
20300.00	90.05	359.81	11002.95	9277.21	-1269.60	9357.11	0.00	
20400.00	90.05	359.81	11002.87	9377.21	-1269.94	9456.65	0.00	
20500.00	90.05	359.81	11002.80	9477.21	-1270.27	9556.20	0.00	
20600.00	90.05	359.81	11002.72	9577.21	-1270.60	9655.75	0.00	
20700.00	90.05	359.81	11002.64	9677.21	-1270.93	9755.29	0.00	
20800.00	90.05	359.81	11002.56	9777.21	-1271.27	9854.84	0.00	
20900.00	90.05	359.81	11002.48	9877.21	-1271.60	9954.39	0.00	
21000.00	90.05	359.81	11002.40	9977.21	-1271.93	10053.94	0.00	
21100.00	90.05	359.81	11002.32	10077.21	-1272.26	10153.48	0.00	
21200.00	90.05	359.81	11002.24	10177.21	-1272.59	10253.03	0.00	
21300.00	90.05	359.81	11002.16	10277.21	-1272.93	10352.58	0.00	
21400.00	90.05	359.81	11002.08	10377.21	-1273.26	10452.12	0.00	
21500.00	90.05	359.81	11002.00	10477.21	-1273.59	10551.67	0.00	
21600.00	90.05	359.81	11001.92	10577.21	-1273.92	10651.22	0.00	
21700.00	90.05	359.81	11001.84	10677.21	-1274.25	10750.77	0.00	
21800.00	90.05	359.81	11001.76	10777.21	-1274.59	10850.31	0.00	
21900.00	90.05	359.81	11001.68	10877.20	-1274.92	10949.86	0.00	
22000.00	90.05	359.81	11001.60	10977.20	-1275.25	11049.41	0.00	
22100.00	90.05	359.81	11001.52	11077.20	-1275.58	11148.96	0.00	
22200.00	90.05	359.81	11001.44	11177.20	-1275.92	11248.50	0.00	
22300.00	90.05	359.81	11001.36	11277.20	-1276.25	11348.05	0.00	
22400.00	90.05	359.81	11001.30	11377.20	-1276.58	11447.60	0.00	
22500.00	90.05	359.81	11001.20	11477.20	-1276.91	11547.14	0.00	
22600.00	90.05	359.81	11001.20	11577.20	-1277.24	11646.69	0.00	
22700.00	90.05	359.81	11001.12	11677.20	-1277.58	11746.24	0.00	
22800.00	90.05	359.81	11001.04	11777.20	-1277.91	11845.79	0.00	
22900.00	90.05	359.81	11000.37	11877.20	-1278.24	11945.33	0.00	
23000.00	90.05	359.81	11000.83	11977.20	-1278.57	12044.88	0.00	
23100.00	90.05	359.81	11000.73	12077.20	-1278.90	12144.43	0.00	
23200.00	90.05	359.81	11000.75	12177.20	-1279.24	12243.97	0.00	
23300.00	90.05	359.81	11000.63	12277.20	-1279.57	12343.52	0.00	
23400.00	90.05	359.81	11000.37	12377.20	-1279.37	12443.07	0.00	
23500.00	90.05	359.81	11000.49	12477.20	-1279.90	12542.62	0.00	
23600.00	90.05	359.81	11000.41	12477.20	-1280.23	12642.16	0.00	
23700.00	90.05	359.81	11000.33		-1280.57		0.00	
23800.00	90.05	359.81	11000.25	12677.19 12777.19	-1281.23	12741.71 12841.26	0.00	
23900.00	90.05	359.81	11000.17	12777.19	-1281.56	12940.80	0.00	
23900.00	90.05	359.81	11000.09	12889.01	-1281.60	12940.80	0.00	exit
23911.82	90.05	359.81	11000.08	12969.01	-1281.80	13032.20	0.00	BHL
2331.02	90.03	333.01	11000.00	12303.01	-1201.00	13032.20	0.00	DITE

<u>C-10</u>)2				ls & Natura	New Mexico al Resource				Rev	rised July, 2024	
Submit El	lectronically		OIL	CON	ISERVAT	LION DI	VISI	ON				
Via OCD	Permitting						Submittal					
									Type:	☐ Amended Repor	t	
										☐ As Drilled		
				W	ELL LOCAT	ION INFOR	MATIO	N				
API N	umber		Pool Cod			Pool Name						
	<u>15-55365</u> rty Code		9664 Property	_		PADU	JCA; B	ONE SPR	ING	Well Number		
Frope	rty code		rroperty	Name	MORGAN	25-13 FEI	СОМ			827H		
OGRID			Operator							Ground Level	Elevation	
	6137			DEVON	N ENERGY F	PRODUCTION	COMPA	NY, L.P.		3329.8'		
Surfac	e Owner:	□State □	Fee □Trib	al □Fed	leral	Mineral	Owner:	□State [□Fee □	Γribal □Federal		
					Cum	face Location						
UL	Section	Township	Range	Lot	Ft. from N			Latitude		Longitude	County	
G	25	25-S	31-E	Вос	2433' N	1770	. '	32.101		103.728770	EDDY	
	~ 0	2 0 0	01 L					00.101		100.110	пррт	
UL	Section	M 1	D	7 - 4	Ft. from N	m Hole Loca /S Ft. from		Latitude		T: 4 3 -	County	
C		Township	Range	Lot		2300	, l			Longitude		
	13	25-S	31-E		20' N	2300	VV	32.137	523	103.732676	EDDY	
Dadiast				Defining	Wall ADI O	ulannina Chaa	in a Timil	L (V/NI)	Compolid	ation Code		
				Delining	well API Ove	rlapping Spac	ing Uni	t (1/N)	Consolia	ation Code		
320.0	00	INFILI	_									
Order 1	Numbers				Well	l setbacks ar	setbacks are under Common Ownership: □Yes □No					
					Kick O	ff Point (KOF	p)					
UL	Section	Township	Range	Lot	Ft. from N	<u>`</u>		Latitude		Longitude	County	
F	25	-	31-E		2576' FN	·	7 W/I	32.1014		-103.7329	EDDY	
_	23	25-S	31 L			ake Point (F		32.1017		103.7323	EDD1	
UL	Section	Township	Range	Lot	Ft. from N			Latitude		Longitude	County	
F	25	25-S	31-E	Loc	2538' N	2300	. 1			103.732766	EDDY	
	20	20 0	91 L							100.100100	пррт	
	~		_			ake Point (L'					- ·	
UL	Section	Township	Range	Lot	Ft. from N	, I	,			Longitude	County	
С	13	25-S	31-E		100' N	2300	VV	32.137	303	103.732676	EDDY	
					g :	TT '1 M	TT	1 7 77 1.	1 6	N 1 171 171	1.	
					Spacing	Unit Type	Horizon	tal Vertic	cai (Fround Floor Ele	vation:	
OPERAT	OR CERTI	FICATIONS				SURVEYOR O	CERTIFIC	ATIONS				
					omplete to the best	I hereby certify that the well location shown on this plat was plotted from field notes						
					onal well, that this terest in the land	of actual survey	s made by	me or under su		and that the same is true		
		bottom hole loca				correct to the be	est of my be	elief.		T R. 1		
mineral in	nterest, or to a				ory pooling order					SER	DEHOYOS	
heretofore entered by the division.									KN WEX	/c\ %\		
If this well is a horizontal well, I further certify that this organization has received the						е					\°\\	
consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's										23261	1 . .	
completed interval will be located or obtained a compulsory pooling order from the										70 / Bles	M 15 /	
división.	y A.	Brown	3/2025						\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	<u> </u>		
Signa	are		Date			Signature a	nd Seal	of Profes	ssional S	urveyor / ONAL	501	
Δmy	A. Brow	n									/	
	d Name	11				Certificate 1	Number	Date of S	Survey			
	.brown@	dvn.com							•			
	Address					2326	1	10/20	24			

ACREAGE DEDICATION PLATS

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

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SURFACE HOLE LOCATION
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LOCATION
2433' FNL 1770' FEL SECTION 25
EL: 3329.8'
N:401316.10/E:728538.98
LAT:32.101854/LDN:103.728770

KICK OFF POINT
CALLS:2576'ENL,2299' FWL
N:401164.L/E:_10543.65
LAT:32.1014_/LDN:_103,7329

FIRST TAKE POINT
2540' FNL 2300' FWL SECTION 25
N:401201.38/E:727302.09
LAT:32.101558/LDN:103.732766

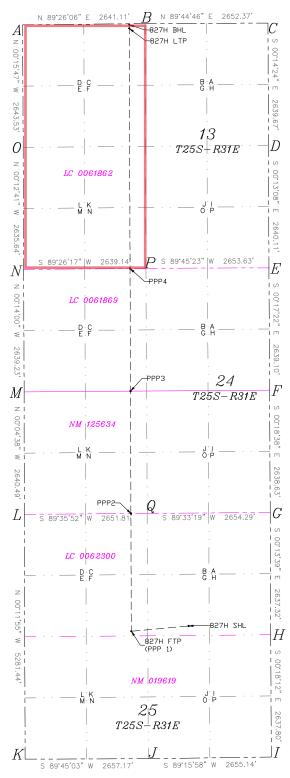
LAST TAKE POINT
100' FNL 2300' FWL SECTION 13
N:414205.11/E:727257.54
LAT:32.137303/LDN:103.732676

BOTTOM HOLE LOCATION 20' FNL 2300' FWL SECTION 13 N:414285.11/E:727257.18 LAT:32.137523/LON:103.732676

PPP 2 0' FNL 2300' FWL SECTION 25 N:403739.77/E:727293.40 LAT:32.108536/LDN:103.732749

PPP 3 2641' FSL 2295' FWL SECTION 24 N:406380.31/E:727284.35 LAT:32.115794/LDN:103.732730

PPP_4 0' FSL 2296' FWL SECTION 13 N:409025.84/E:727275.29 LAT:32.123066/LDN:103.732712



A= N:414282.44 E:724957.17 B= N:414308.48 E:727598.15 C= N:414320.23 E:730250.50 D= N:411680.59 E:730261.56 E= N:409040.49 E:730271.65 F= N:406401.43 E:730284.99 G= N:403762.83 E:730299.28 H= N:401125.54 E:730309.76 I= N:398487.77 E:730323.72 J= N:398453.76 F:727668.80 K= N:398442.20 E:725011.65 L= N:403723.61 F:724993.33 M= N:406364.11 E:724989.78 E:724979.03 N= N:409003.32 □= N:411638.94 E:724969.31 E:727618.04 P= N:409029.21 Q= N:403742.23 E:727645.07

<u>C-102</u>					ls & Natura	New Mexico 1 Resources Department			Revised July, 2024		
Submit Electronically			OIL	CON	NSERVA'	TION DIVISION					
Via OCD Permitting									Submittal	☑ Initial Submittal	
									Type:	Amended Repor	t
				***	E. I. I. O. C. I	TON DECDINA	71031			☐ As Drilled	
ADI N			Deal Cad		ELL LOCAT	ON INFORMATION					
07060					Pool Name JENNINGS; BONE SPRING WEST						
30-015-55365 97860 Property Code Property Name					Well Number						
					MORGAN	25-13 FED COM			827H		
OGRID No. Operator Name 6137 DEVON ENERGY P					Ground Level Elevat RODUCTION COMPANY, L.P. 3329.8'			Elevation			
Surface Owner:					Mineral Owner: □State □Fee □Tribal □Federal						
Surrac	e Owner.		ree Liii	Jaii.ec	iei ai	mineral Owner: State Fee Iribal Federal					
					Sur	face Location					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/V	V Lati	tude		Longitude	County
G	25	25-S	31-E		2433' N	1770' E	32.	1018	554	103.728770	EDDY
					Botto	m Hole Location					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/V	V Lati	tude		Longitude	County
С	13	25-S	31-E		20' N	2300' W	32.	1375	523	103.732676	EDDY
Dedicate	ed Acres l	Infill or Def	ining Well	Defining	Well API Ove	rlapping Spacing	Unit (Y/	N) (Consolid	ation Code	
480.0	00	INFILI	L								
Order 1	Numbers				Wel	setbacks are under Common Ownership: Yes No					
						ff Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/	V Lati	tude		Longitude	County
F	25	25-S	31-E		2576' FN	L 2299' FWL	32.	1014		-103.7329	EDDY
				1	First T	ake Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N	·		tude		Longitude	County
F	25	25-S	31-E		2538' N	2300' W	32.	1015	558	103.732766	EDDY
					Last T	ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N	, l ,	.	tude		Longitude	County
C	13	25-S	31-E		100' N	2300' W	32.	1373	803	103.732676	EDDY
						'					
					Spacing	Unit Type Horiz	zontal '	Vertica	al G	Ground Floor Ele	vation:
OPERAT	OR CERTI	FICATIONS				SURVEYOR CERT	FICATION	NS			
I hereby o	certify that the	information cor			omplete to the best	I hereby certify that the well location shown on this plat was plotted from field notes					
					onal well, that this terest in the land	of actual surveys made by me or under supervision, and that the same is true and					
		bottom hole loca ontract with an o				correct to the best of my belief.					
mineral in	nterest, or to a	voluntary pooli			ory pooling order		correct to the best of my belief. R. DEHOLOGO WEXTOR				-40t
heretofore entered by the division.			EM WEX CO				/c/ v \				
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral											
interest in each tract (in the target pool or formation) in which any part of the well's			D 23261								
completed interval will be located or obtained a compulsory pooling order from the division.									\ B\ \ Olles	1 C	
division. Brown 01/08/2025											
Signature Date					Signature and S	eal of F	rofes	sional S	Surveyor / ONAL	50/	
Amy A. Brown											
Printed Name						Certificate Numl	per Date	of S	urvey		
amy.brown@dvn.com						23261	10	/202	14		
Email Address						25201	10,	/ 202	T		

ACREAGE DEDICATION PLATS

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SURFACE HDLE LDCATION
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LOCATION
2433' FNL 1770' FEL SECTION 25
EL: 3329.8'
N:401316.10/E:728538.98
LAT:32.101854/LDN:103.728770

KICK DFF PDINT
CALLS:2576/FNL,2299' FWL
N:401164.1/E: 10543.65
LAT:32.1014_/LDN:_103.7329

FIRST TAKE PDINT
2540' FNL 2300' FWL SECTION 25
N:401201.38/E:727302.09
LAT:32.101558/LDN:103.732766

LAST TAKE PDINT
100' FNL 2300' FWL SECTION 13
N:414205.11/E:727257.54
LAT:32.137303/LDN:103.732676

BDTTDM HDLE LDCATION
20' FNL 2300' FWL SECTION 13
N:414205.11/E:727257.18
LAT:32.137523/LDN:103.732676

PPP 2
0' FNL 2300' FWL SECTION 25
N:403739.77/E:727293.40
LAT:32.108536/LDN:103.732749

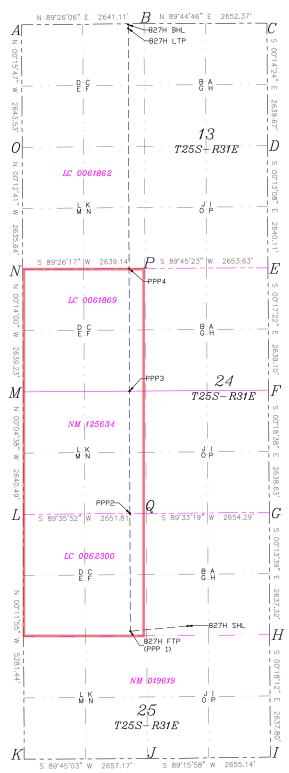
LAT:32.115794/LIN:103.732730

PPP 4

0' FSL 2296' FWL SECTION 13
N:409025.84/E:727275.29
LAT:32.123066/LIN:103.732712

2641' FSL 2295' FWL SECTION 24 N:406380.31/E:727284.35

A= N:414282.44 E:724957.17 B= N:414308.48 E:727598.15 C= N:414320.23 E:730250.50 D= N:411680.59 E:730261.56 E= N:409040.49 E:730271.65 F= N:406401.43 E:730284.99 G= N:403762.83 E:730299.28 H= N:401125.54 E:730309.76 I= N:398487.77 E:730323.72 J= N:398453.76 F:727668.80 K= N:398442.20 E:725011.65 L= N:403723.61 F:724993.33 M= N:406364.11 E:724989.78 E:724979.03 N= N:409003.32 □= N:411638.94 E:724969.31 E:727618.04 P= N:409029.21 Q= N:403742.23 E:727645.07





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

Sundry Print Reports
01/29/2025

Well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: EDDY /

SWNE / 32.101854 / -103.72877

Well Number: 827H Type of Well: OIL WELL Allottee or Tribe Name:

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

US Well Number: 3001555756 **Operator:** DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2831363

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/13/2025 Time Sundry Submitted: 10:19

Date proposed operation will begin: 01/14/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests a BHL move, and depth / formation change to the subject well. In additional we also request changes to the drilling plan with casing changes and slim hole design. Please see attached revised C102, Drill plan, and directional plan. Permitted BHL: NWNE, 20 FNL, 2310 FEL, 13-25S-31E Proposed BHL: NENW, 20 FNL, 2300 FWL, 13-25S-31E Proposed BHL: NENW, 20 FNL, 2300 FWL, 13-25S-31E Permitted TVD/MD: 12458/25507- Purple Sage/Wolfcamp Proposed TVD/MD: 11000/23991-Paduca, Jennings/Bone Spring

NOI Attachments

Procedure Description

MORGAN_25_13_FED_COM_827H_rev1_20250127143046.pdf

5.5_20lb_P110HP_TALON_RD_20250113101526.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20250113101507.pdf

9.625_40lb_J55_SeAH_20250113101423.pdf

MORGAN_25_13_FED_COM_827H_Directional_Plan_11_21_24_20250113101358.pdf

WA022390588_MORGAN_25_13_FED_COM_827H_WL_R1_SIGNED_20250113101327.pdf

Well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: Page 25 of

SWNE / 32.101854 / -103.72877

Well Number: 827H Type of Well: OIL WELL Allottee or Tribe Name:

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

US Well Number: 3001555756 **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: JAN 27, 2025 02:30 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:

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:

LOCATION:
COUNTY:

Devon Energy Production Company LP

Section 25, T.25 S., R.31 E., NMPM

Eddy County, New Mexico

WELL NAME & NO.: Morgan 25-13 Fed Com 827H

ATS/API ID: 3001555756

APD ID: 10400097852
Sundry ID: 2831363

 \mathbf{COA}

Primary Design:

	7		
H2S	No 🔻		
Potash	None	None	
Cave/Karst Potential	Medium ▼		
Cave/Karst Potential	☐ Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional and Multibov	vl 🔻	
Other	□4 String □ 5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	☐ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None
Special Requirements	☐ Water Disposal/Injection	☑ COM	Unit
Special Requirements	☐ Batch Sundry	Waste Prevention None	
Special Requirements Variance	☐ BOPE Break Testing ☐ Offline BOPE Testing	✓ Offline Cementing	☐ Casing Clearance

Alternate Design:

Potash	None	None	
Cave/Karst Potential	Medium ▼		
Cave/Karst Potential	Critical		
Other	□ 4 String □ 5 String	Capitan Reef None	□WIPP
Other	Pilot Hole None	□ Open Annulus	
Cementing	Contingency Squeeze None	Echo-Meter Int 1	Primary Cement Squeeze None

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet **43 CFR part 3170 Subpart 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

Primary Design

B. CASING

- 1. The 9-5/8 inch surface casing shall be set at approximately 1030 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 13 1/2 inch in diameter.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **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.
- 2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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

- a. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6754'.
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 378 sxs Class C)
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus Or operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC.

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

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

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

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Alternate Design

C. CASING

- 4. The 10-3/4 inch surface casing shall be set at approximately 1030 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt when present, and below usable fresh water) and cemented to the surface. The surface hole shall be 14 3/4 inch in diameter.
 - e. 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.
- f. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8</u> hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- g. 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.
- h. 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.

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

Option 1 (Single Stage):

• Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Option 2:

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

- c. First stage: Operator will cement with intent to reach the top of the **Brushy** Canyon at 6754'.
- d. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified. (Squeeze 478 sxs Class C)
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

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

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

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

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

- ❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 6. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least 200 feet into previous casing string.
 Operator shall provide method of verification.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
 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.

D. PRESSURE CONTROL

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

2.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch or the 7-5/8 inch surface 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 9-5/8 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.

Option 2:

Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 10-3/4 inch surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

- a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

E. 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.

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 Eddy County: 575-361-2822.

GENERAL REQUIREMENTS

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

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

☑ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV (575) 361-2822

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

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.
- B. PRESSURE CONTROL
- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.

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

done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

Long Vo (LVO) 1/29/2025

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

BUREAU OF LAND MANAGEMENT			5. Lease Serial No.			
Do not use this f	IOTICES AND REPOR form for proposals to Use Form 3160-3 (AP	drill or to re-	enter an	6. If Indian, Allottee or Tribe N	Vame	
SUBMIT IN T	TRIPLICATE - Other instruc	tions on page 2		7. If Unit of CA/Agreement, N	lame a	nd/or No.
1. Type of Well Oil Well Gas W	8. Well Name and No.					
2. Name of Operator	9. API Well No.					
3a. Address	31	b. Phone No. (include	de area code)	10. Field and Pool or Explorat	ory Ar	ea
4. Location of Well (Footage, Sec., T.,R	C.,M., or Survey Description)			11. Country or Parish, State		
12. CHE	CK THE APPROPRIATE BOX	X(ES) TO INDICAT	E NATURE O	F NOTICE, REPORT OR OTH	IER D	ATA
TYPE OF SUBMISSION			TYPE	OF ACTION		
Notice of Intent	Acidize	Deepen		Production (Start/Resume)		Water Shut-Off
Tvotice of Intent	Alter Casing	Hydraulic F	Fracturing [Reclamation		Well Integrity
Subsequent Report	Casing Repair	New Const	ruction	Recomplete		Other
	Change Plans	Plug and Al	bandon	Temporarily Abandon		
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposal		
completed. Final Abandonment Not is ready for final inspection.)			dung reciamat	on, have been completed and t	ile ope	ator has determined that the Site
14. I hereby certify that the foregoing is	true and correct. Name (Print	,				
		Title				
Signature		Date				
	THE SPACE I	FOR FEDERA	L OR STAT	E OFICE USE		
Approved by						
			Title	I	Date	
Conditions of approval, if any, are attack certify that the applicant holds legal or e which would entitle the applicant to con	equitable title to those rights in		Office			
Title 18 U.S.C Section 1001 and Title 43	3 U.S.C Section 1212, make it	a crime for any pers	on knowingly	and willfully to make to any de	partme	ent or agency of the United States

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 State 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: SWNE / 2433 FNL / 1770 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101854 / LONG: -103.72877 (TVD: 0 feet, MD: 0 feet) PPP: SWNE / 2538 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101563 / LONG: -103.730514 (TVD: 11645 feet, MD: 11693 feet) PPP: SWSE / 159 FSL / 2307 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.1234882 / LONG: -103.7304855 (TVD: 12489 feet, MD: 20400 feet) PPP: SWNE / 2441 FNL / 2308 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1163414 / LONG: -103.7304943 (TVD: 12505 feet, MD: 17800 feet) PPP: SWSE / 138 FSL / 2311 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1089196 / LONG: -103.7305035 (TVD: 12521 feet, MD: 15100 feet) BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.137526 / LONG: -103.730468 (TVD: 12458 feet, MD: 25507 feet)

MORGAN 25-13 FED COM 827H

1. Geologic Formations

TVD of target	11000	Pilot hole depth	N/A
MD at TD:	23992	Deepest expected fresh water	

Basin

	Depth	Water/Mineral	
Formation	(TVD)	Bearing/Target	Hazards*
	from KB	Zone?	
Rustler	945		
Salt	1355		
Base of Salt	4052		
Delaware	4358		
Cherry Canyon	5321		
Brushy Canyon	6754		
Bone Spring 1st	9341		
Bone Spring 2nd	9976		
Bone Spring 3rd	10421		

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

2. Casing Program (Primary Design)

		Wt			Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)	Grade	Conn	From (MD)	To (MD)	From (TVD)	To (TVD)
13 1/2	9 5/8	40	J-55	BTC	0	970	0	970
8 3/4	7 5/8	29.7	P110HP	TALON SFC	0	10442	0	10442
6 3/4	5 1/2	20	P110HP	TALON RD	0	23992	0	11000

[•]All casing strings will be tested in accordance with 43 CFR 3172.

3. Cementing Program (Primary Design)

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

Casing	# Sks	тос	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	512	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	378	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	336	6822	13.2	1.44	Tail: Class H / C + additives
Production	62	8544	9	3.27	Lead: Class H /C + additives
Froduction	858	10544	10544 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%
Prod	10%

2. Casing Program (Secondary Design)

		Wt	Grade Conn		Casing	Interval	Casing	Interval
Hole Size	Csg. Size	(PPF)			From (MD)	To (MD)	From (TVD)	To (TVD)
14 3/4	10 3/4	45 1/2	J-55	ВТС	0	970	0	970
9 7/8	8 5/8	32	P110	Sprint FJ	0	10442	0	10442
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	23992	0	11000

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

3. Cementing Program (Secondary Design)

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

Casing	# Sks	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	586	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	478	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	422	6822	13.2	1.44	Tail: Class H / C + additives
Production	117	8544	9	3.27	Lead: Class H /C + additives
Froduction	1780 10544 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%
Prod	10%

4. Pressure Control Equipment (Three String Design)

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Туре		✓	Tested to:
			Anı	nular	X	50% of rated working pressure
Int 1	13-5/8"	5M		d Ram	X	
III. I	13 3/0	3141		Ram		5M
			Doub	le Ram	X	3141
			Annul	ar (5M)	X	50% of rated working
	13-5/8"	5M	, , ,			pressure
Production			Blind Ram		X	- 5M
Troduction			Pipe Ram			
				le Ram	X	5111
			Other*			
			Annul	ar (5M)		
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other*			
N A variance is requested for	the use of a	a diverter on the s	urface casin	g. See attache	ed for schema	atic.
Y A variance is requested to r						

5. Mud Program (Three String Design)

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

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

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

6. Logging and Testing Procedures

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

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

7. Drilling Conditions

Condition	Specfiy what type and where?
BH pressure at deepest TVD	6006
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.
- The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and pressure gauge installed for monitoring the well before walking to the next well.
- 3 The drilling rig will then batch drill the production hole sections on the wells with OBM, run/cement production casing, and install TA caps or tubing heads for completions.

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

Will be pre-setting casing? Potentially

- 1 Spudder rig will move in and batch drill surface hole.
 - a. Rig will utilize fresh water based mud to drill surface hole to TD. Solids control will be handled entirely on a closed loop basis.,
- 2 After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (43 CFR 3172, all COAs and NMOCD regulations).
- 3 The wellhead will be installed and tested once the surface casing is cut off and the WOC time has been reached.
- 4 A blind flange with the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with a pressure gauge installed on the wellhead.
- 5 Spudder rig operations is expected to take 4-5 days per well on a multi-well pa.
- 6 The NMOCD will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 7 Drilling operations will be performed with drilling rig. A that time an approved BOP stack will be nippled up and tested on the wellhead before drilling operations commences on each well.
 - a. The NMOCD will be contacted / notified 24 hours before the drilling rig moves back on to the pad with the pre-set surface casing.

Attach	ments
X	Directional Plan
	Other, describe

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

P110 HP USS-TALON HTQ™ RD

MECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON HTQ™ RD		
Outside Diameter	5.500	5.900	in.	
Wall Thickness	0.361		in.	
Inside Diameter	4.778	4.778	in.	
Standard Drift	4.653	4.653	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	20.00		lb/ft	
Plain End Weight	19.83		lb/ft	
SECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	[2]
PERFORMANCE	Pipe	USS-TALON HTQ™ RD		
Minimum Collapse Pressure	13,150	13,150	psi	
Minimum Internal Yield Pressure	14,360	14,360	psi	
Minimum Pipe Body Yield Strength	729,000		lb	
Joint Strength		729,000	lb	
Compression Rating		729,000	lb	
Reference Length		24,300	ft	[5]
Maximum Uniaxial Bend Rating		104.2	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		18,400	ft-lb	[4]
Maximum Make-Up Torque		21,400	ft-lb	[4]
Maximum Operating Torque		44,400	ft-lb	[4]

Notes

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

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U. S. Steel Tubular Products 460 Wildwood Forest Drive, Suite 300S Spring, Texas 77380 1-877-893-9461 connections@uss.com www.usstubular.com

U. S. Steel Tubular Products 7.625" 29.70lb/ft (0.375" Wall)

5/15/2024 6:31:14 PM

Wall) P110 HP USS-TALON SFC™

MECHANICAL PROPERTIES	Pipe	USS-TALON SFC™		[6]
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
DIMENSIONS	Pipe	USS-TALON SFC™		
Outside Diameter	7.625	7.900	in.	
Wall Thickness	0.375		in.	
Inside Diameter	6.875	6.815	in.	
Standard Drift	6.750	6.750	in.	
Alternate Drift			in.	
Nominal Linear Weight, T&C	29.70		lb/ft	
Plain End Weight	29.06		lb/ft	
SECTION AREA	Pipe	USS-TALON SFC™		
Critical Area	8.541	7.331	sq. in.	
Joint Efficiency		85.8	%	[2]
PERFORMANCE	Pipe	USS-TALON SFC™		
Minimum Collapse Pressure	7,260	7,260	psi	
Minimum Internal Yield Pressure	10,750	10,750	psi	
Minimum Pipe Body Yield Strength	1,068,000		lb	
Joint Strength		916,000	lb	
Compression Rating		916,000	lb	
Reference Length		20,560	ft	[5]
Maximum Uniaxial Bend Rating		64.4	deg/100 ft	[3]
MAKE-UP DATA	Pipe	USS-TALON SFC™		
Make-Up Loss		5.08	in.	
Minimum Make-Up Torque		30,000	ft-lb	[4]
Maximum Make-Up Torque		33,000	ft-lb	[4]
Maximum Operating Torque		80,500	ft-lb	[4]

Notes

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

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9.625" 40# .395" J-55

Dimensions (Nominal)

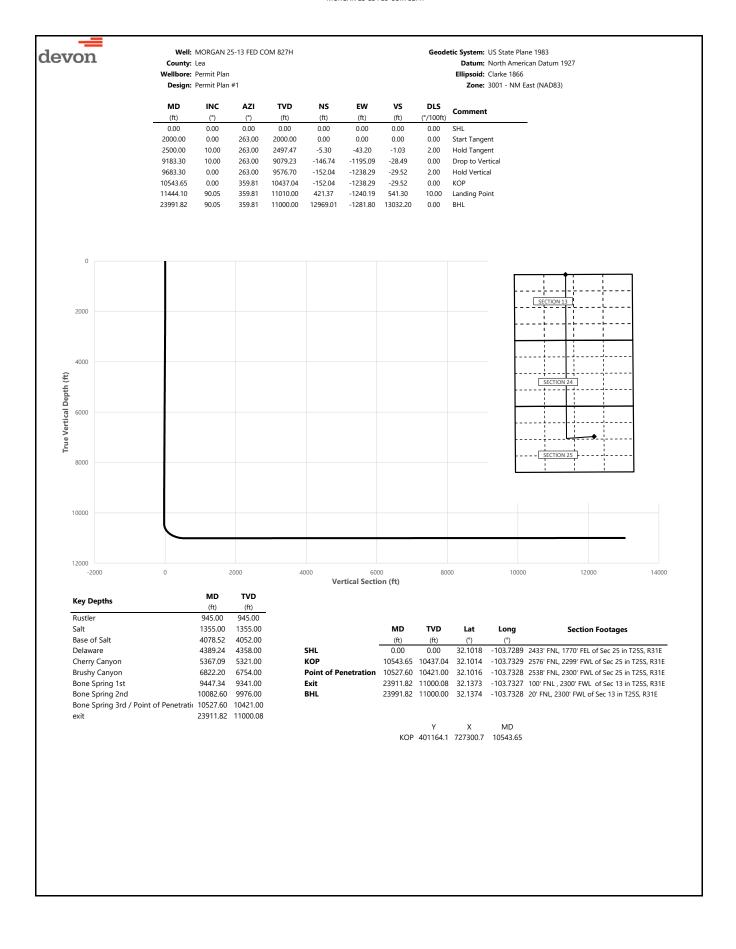
BTC

Outside Diameter	9.625	in.
Wall	0.395	in.
Inside Diameter	8.835	in.
Drift	8.750	in.
Weight, T&C	40.000	lbs./ft.
Weight, PE	38.970	lbs./ft.
Performance Properties		
Collapse, PE	2570	psi
Internal Yield Pressure at Minimum Yield		
PE	3950	psi
LTC	3950	psi
ВТС	3950	psi
Yield Strength, Pipe Body	630	1000 lbs.
Joint Strength		
STC	452	1000 lbs.
LTC	520	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.

714

1000 lbs.





Well: MORGAN 25-13 FED COM 827H Geodetic System: US State Plane 1983
County: Lea Datum: North American Datu

Wellbore: Permit Plan

Design: Permit Plan #

Datum: North American Datum 1927 Ellipsoid: Clarke 1866 Zone: 3001 - NM Fast (NAD83)

		Permit Plan						Zone: 3001 - NM East (NAD83)
	Design.	r crimer ian						Zone. 3001 MM East (MADOS)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL
100.00	0.00	263.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	263.00	200.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	263.00 263.00	300.00 400.00	0.00	0.00	0.00	0.00	
500.00	0.00	263.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	263.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	263.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	263.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	263.00	900.00	0.00	0.00	0.00	0.00	
945.00	0.00	263.00	945.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	263.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	263.00	1100.00	0.00	0.00	0.00	0.00	
1200.00	0.00	263.00 263.00	1200.00	0.00	0.00	0.00	0.00	
1300.00 1355.00	0.00	263.00	1300.00 1355.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	263.00	1400.00	0.00	0.00	0.00	0.00	Sait
1500.00	0.00	263.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	263.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	263.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	263.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	263.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	263.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	263.00	2099.98	-0.21	-1.73	-0.04	2.00	
2200.00	4.00	263.00	2199.84	-0.85	-6.93	-0.17	2.00	
2300.00	6.00	263.00	2299.45	-1.91	-15.58	-0.37	2.00	
2400.00	8.00	263.00	2398.70 2497.47	-3.40	-27.67	-0.66	2.00	Hald Tanana
2500.00 2600.00	10.00 10.00	263.00 263.00	2497.47 2595.95	-5.30 -7.42	-43.20 -60.43	-1.03 -1.44	2.00 0.00	Hold Tangent
2700.00	10.00	263.00	2694.43	-9.54	-77.67	-1.85	0.00	
2800.00	10.00	263.00	2792.91	-11.65	-94.90	-2.26	0.00	
2900.00	10.00	263.00	2891.39	-13.77	-112.14	-2.67	0.00	
3000.00	10.00	263.00	2989.87	-15.89	-129.37	-3.08	0.00	
3100.00	10.00	263.00	3088.35	-18.00	-146.61	-3.49	0.00	
3200.00	10.00	263.00	3186.83	-20.12	-163.85	-3.91	0.00	
3300.00	10.00	263.00	3285.31	-22.23	-181.08	-4.32	0.00	
3400.00	10.00	263.00	3383.79	-24.35	-198.32	-4.73	0.00	
3500.00	10.00	263.00	3482.27	-26.47	-215.55	-5.14	0.00	
3600.00	10.00	263.00	3580.75	-28.58	-232.79	-5.55	0.00	
3700.00	10.00	263.00	3679.23	-30.70	-250.02	-5.96	0.00	
3800.00 3900.00	10.00 10.00	263.00 263.00	3777.72 3876.20	-32.82 -34.93	-267.26 -284.49	-6.37 -6.78	0.00	
4000.00	10.00	263.00	3974.68	-37.05	-301.73	-7.19	0.00	
4078.52	10.00	263.00	4052.00	-38.71	-315.26	-7.51	0.00	Base of Salt
4100.00	10.00	263.00	4073.16	-39.16	-318.96	-7.60	0.00	
4200.00	10.00	263.00	4171.64	-41.28	-336.20	-8.01	0.00	
4300.00	10.00	263.00	4270.12	-43.40	-353.43	-8.42	0.00	
4389.24	10.00	263.00	4358.00	-45.29	-368.81	-8.79	0.00	Delaware
4400.00	10.00	263.00	4368.60	-45.51	-370.67	-8.83	0.00	
4500.00	10.00	263.00	4467.08	-47.63	-387.91	-9.25	0.00	
4600.00	10.00	263.00	4565.56	-49.75 51.86	-405.14	-9.66 10.07	0.00	
4700.00 4800.00	10.00 10.00	263.00 263.00	4664.04 4762.52	-51.86 -53.98	-422.38 -439.61	-10.07 -10.48	0.00	
4900.00	10.00	263.00	4861.00	-53.96 -56.10	-439.61 -456.85	-10.48	0.00	
5000.00	10.00	263.00	4959.48	-58.21	-474.08	-10.89	0.00	
5100.00	10.00	263.00	5057.97	-60.33	-491.32	-11.71	0.00	
5200.00	10.00	263.00	5156.45	-62.44	-508.55	-12.12	0.00	
5300.00	10.00	263.00	5254.93	-64.56	-525.79	-12.53	0.00	
5367.09	10.00	263.00	5321.00	-65.98	-537.35	-12.81	0.00	Cherry Canyon
5400.00	10.00	263.00	5353.41	-66.68	-543.02	-12.94	0.00	
5500.00	10.00	263.00	5451.89	-68.79	-560.26	-13.35	0.00	
5600.00	10.00	263.00	5550.37	-70.91	-577.49	-13.76	0.00	
5700.00	10.00	263.00	5648.85	-73.03	-594.73	-14.18	0.00	
5800.00	10.00	263.00	5747.33	-75.14 77.26	-611.97	-14.59 15.00	0.00	
5900.00 6000.00	10.00 10.00	263.00 263.00	5845.81 5944.29	-77.26 -79.37	-629.20 -646.44	-15.00 -15.41	0.00	
6100.00	10.00	263.00	6042.77	-79.37 -81.49	-663.67	-15.82	0.00	
6200.00	10.00	263.00	6141.25	-83.61	-680.91	-16.23	0.00	
6300.00	10.00	263.00	6239.73	-85.72	-698.14	-16.64	0.00	
6400.00	10.00	263.00	6338.22	-87.84	-715.38	-17.05	0.00	



Well: MORGAN 25-13 FED COM 827H

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)

	Design: Permit Plan #1 Zone: 3001 - NM East (NAD83)								
MD	INC	AZI	TVD	NS	EW	vs	DLS	Command	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
6500.00	10.00	263.00	6436.70	-89.96	-732.61	-17.46	0.00		
6600.00	10.00	263.00	6535.18	-92.07	-749.85	-17.87	0.00		
6700.00	10.00	263.00	6633.66	-94.19	-767.08	-18.28	0.00		
6800.00	10.00	263.00	6732.14	-96.31	-784.32	-18.69	0.00		
6822.20	10.00	263.00	6754.00	-96.77	-788.14	-18.79	0.00	Brushy Canyon	
								Brushy Canyon	
6900.00	10.00	263.00	6830.62	-98.42	-801.55	-19.11	0.00		
7000.00	10.00	263.00	6929.10	-100.54	-818.79	-19.52	0.00		
7100.00	10.00	263.00	7027.58	-102.65	-836.02	-19.93	0.00		
7200.00	10.00	263.00	7126.06	-104.77	-853.26	-20.34	0.00		
7300.00	10.00	263.00	7224.54	-106.89	-870.50	-20.75	0.00		
7400.00	10.00	263.00	7323.02	-109.00	-887.73	-21.16	0.00		
7500.00	10.00	263.00	7421.50	-111.12	-904.97	-21.57	0.00		
7600.00	10.00	263.00	7519.99	-113.24	-922.20	-21.98	0.00		
7700.00	10.00	263.00	7618.47	-115.35	-939.44	-22.39	0.00		
		263.00	7716.95				0.00		
7800.00	10.00			-117.47	-956.67	-22.80			
7900.00	10.00	263.00	7815.43	-119.58	-973.91	-23.21	0.00		
8000.00	10.00	263.00	7913.91	-121.70	-991.14	-23.62	0.00		
8100.00	10.00	263.00	8012.39	-123.82	-1008.38	-24.04	0.00		
8200.00	10.00	263.00	8110.87	-125.93	-1025.61	-24.45	0.00		
8300.00	10.00	263.00	8209.35	-128.05	-1042.85	-24.86	0.00		
8400.00	10.00	263.00	8307.83	-130.17	-1060.08	-25.27	0.00		
8500.00		263.00	8406.31	-130.17	-1000.00	-25.68	0.00		
	10.00								
8600.00	10.00	263.00	8504.79	-134.40	-1094.56	-26.09	0.00		
8700.00	10.00	263.00	8603.27	-136.51	-1111.79	-26.50	0.00		
8800.00	10.00	263.00	8701.75	-138.63	-1129.03	-26.91	0.00		
8900.00	10.00	263.00	8800.24	-140.75	-1146.26	-27.32	0.00		
9000.00	10.00	263.00	8898.72	-142.86	-1163.50	-27.73	0.00		
9100.00	10.00	263.00	8997.20	-144.98	-1180.73	-28.14	0.00		
9183.30	10.00	263.00	9079.23	-146.74	-1195.09	-28.49	0.00	Drop to Vertical	
9200.00	9.67	263.00	9095.69	-147.09	-1197.92	-28.55	2.00		
9300.00	7.67	263.00	9194.54	-148.92	-1212.88	-28.90	2.00		
9400.00	5.67	263.00	9293.86	-150.34	-1224.40	-29.18	2.00		
9447.34	4.72	263.00	9341.00	-150.86	-1228.65	-29.28	2.00	Bone Spring 1st	
9500.00	3.67	263.00	9393.52	-151.33	-1232.47	-29.37	2.00		
9600.00	1.67	263.00	9493.41	-151.90	-1237.09	-29.48	2.00		
9683.30	0.00	263.00	9576.70	-152.04	-1238.29	-29.52	2.00	Hold Vertical	
9700.00	0.00	359.81	9593.40	-152.04	-1238.29	-29.51	0.00		
9800.00	0.00	359.81	9693.40	-152.04	-1238.29	-29.51	0.00		
9900.00	0.00	359.81	9793.40	-152.04	-1238.29	-29.51	0.00		
10000.00	0.00	359.81	9893.40	-152.04	-1238.29	-29.51	0.00	Barra Cardan 2and	
10082.60	0.00	359.81	9976.00	-152.04	-1238.29	-29.51	0.00	Bone Spring 2nd	
10100.00	0.00	359.81	9993.40	-152.04	-1238.29	-29.51	0.00		
10200.00	0.00	359.81	10093.40	-152.04	-1238.29	-29.51	0.00		
10300.00	0.00	359.81	10193.40	-152.04	-1238.29	-29.51	0.00		
10400.00	0.00	359.81	10293.40	-152.04	-1238.29	-29.51	0.00		
10500.00	0.00	359.81	10393.40	-152.04	-1238.29	-29.51	0.00		
10527.60	0.00	359.81	10421.00	-152.04	-1238.29	-29.51	0.00	Bone Spring 3rd / Point of Penetration	
10543.65	0.00	359.81	10421.00	-152.04	-1238.29	-29.52	0.00	KOP	
								NOI	
10600.00	5.64	359.81	10493.31	-149.27	-1238.30	-26.75	10.00		
10700.00	15.64	359.81	10591.46	-130.84	-1238.36	-8.40	10.00		
10800.00	25.64	359.81	10684.93	-95.64	-1238.48	26.63	10.00		
10900.00	35.64	359.81	10770.86	-44.75	-1238.65	77.30	10.00		
11000.00	45.64	359.81	10846.65	20.29	-1238.86	142.04	10.00		
11100.00	55.64	359.81	10910.00	97.50	-1239.12	218.91	10.00		
11200.00	65.64	359.81	10958.97	184.54	-1239.41	305.55	10.00		
11300.00	75.64	359.81	10992.09	278.77	-1239.72	399.35	10.00		
11400.00	85.64				-1240.05	497.45	10.00		
		359.81	11008.34	377.31				Landing Point	
11444.10	90.05	359.81	11010.00	421.37	-1240.19	541.30	10.00	Landing Point	
11500.00	90.05	359.81	11009.96	477.27	-1240.38	596.95	0.00		
11600.00	90.05	359.81	11009.88	577.27	-1240.71	696.50	0.00		
11700.00	90.05	359.81	11009.80	677.26	-1241.04	796.05	0.00		
11800.00	90.05	359.81	11009.72	777.26	-1241.37	895.59	0.00		
11900.00	90.05	359.81	11009.64	877.26	-1241.70	995.14	0.00		
12000.00	90.05	359.81	11009.56	977.26	-1242.04	1094.69	0.00		
		359.81	11009.36			1194.24	0.00		
	90.05			1077.26	-1242.37				
	90.05	359.81	11009.40	1177.26	-1242.70	1293.78	0.00		
12200.00				1277.26	-1243.03	1393.33	0.00		
12200.00 12300.00	90.05	359.81	11009.32						
12100.00 12200.00 12300.00 12400.00		359.81 359.81	11009.32	1377.26	-1243.37	1492.88	0.00		
12200.00 12300.00	90.05								



Well: MORGAN 25-13 FED COM 827H

County: Lea Wellbore: Permit Plan

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

Datum: North American Datum 1927 Ellipsoid: Clarke 1866

Math		Design: Permit Plan #1							Zone: 3001 - NM East (NAD83)				
1970 1970 1970 1970 1971 1970 1971 1970									Comment				
12900.00 90.5 393.81 11008.00 197.6 1977.6 1-245.00 1990.5 000 13100.00 90.5 393.81 11008.00 2177.36 1-245.00 2882.5 000 13100.00 90.5 393.81 11008.00 2177.36 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2177.36 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2177.36 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2277.35 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2477.55 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2477.55 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2477.55 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2477.55 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11008.00 2477.55 1-245.00 2882.5 0.00 13100.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.00 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.5 393.81 11007.8 2477.5 1-245.0 2882.5 0.00 1400.00 90.													
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1310000 90.5 359.8 11008.6 2077.6 -1246.9 2089.2 1000 131000.0 90.5 359.8 11008.2 2277.6 -1246.3 2388.0 100 131000.0 90.5 359.8 11008.2 2277.5 -1247.0 2887.9 100 131000.0 90.5 359.8 11008.2 2277.5 -1247.0 2887.9 100 131000.0 90.5 359.8 11008.2 2277.5 -1247.0 2887.9 100 10			359.81										
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19300.00 90.05 359.81 11003.75 8277.22 -1266.28 8361.63 0.00 19400.00 90.05 359.81 11003.67 8377.22 -1266.62 8461.18 0.00 19500.00 90.05 359.81 11003.59 8477.22 -1266.95 8560.73 0.00	19100.00	90.05	359.81	11003.91	8077.22	-1265.62	8162.54	0.00					
19400.00 90.05 359.81 11003.67 8377.22 -1266.62 8461.18 0.00 19500.00 90.05 359.81 11003.59 8477.22 -1266.95 8560.73 0.00													
19500.00 90.05 359.81 11003.59 8477.22 -1266.95 8560.73 0.00													
1300000 3003 33501 1100331 0377.22 1207.20 0000.20 0.00													
	15000.00	50.05	555.01	11000.01	0311.22	1201.20	0000.20	5.00					



Well: MORGAN 25-13 FED COM 827H

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

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

Zone: 3001 - NM East (NAD83)

MD	INC	AZI	TVD	NS	EW	vs	DLS	e
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19700.00	90.05	359.81	11003.43	8677.22	-1267.61	8759.82	0.00	
19800.00	90.05	359.81	11003.35	8777.22	-1267.94	8859.37	0.00	
19900.00	90.05	359.81	11003.27	8877.22	-1268.28	8958.92	0.00	
20000.00	90.05	359.81	11003.19	8977.22	-1268.61	9058.46	0.00	
20100.00	90.05	359.81	11003.11	9077.22	-1268.94	9158.01	0.00	
20200.00	90.05	359.81	11003.03	9177.21	-1269.27	9257.56	0.00	
20300.00	90.05	359.81	11002.95	9277.21	-1269.60	9357.11	0.00	
20400.00	90.05	359.81	11002.87	9377.21	-1269.94	9456.65	0.00	
20500.00	90.05	359.81	11002.80	9477.21	-1270.27	9556.20	0.00	
20600.00	90.05	359.81	11002.72	9577.21	-1270.60	9655.75	0.00	
20700.00	90.05	359.81	11002.64	9677.21	-1270.93	9755.29	0.00	
20800.00	90.05	359.81	11002.56	9777.21	-1271.27	9854.84	0.00	
20900.00	90.05	359.81	11002.48	9877.21	-1271.60	9954.39	0.00	
21000.00	90.05	359.81	11002.40	9977.21	-1271.93	10053.94	0.00	
21100.00	90.05	359.81	11002.32	10077.21	-1272.26	10153.48	0.00	
21200.00	90.05	359.81	11002.24	10177.21	-1272.59	10253.03	0.00	
21300.00	90.05	359.81	11002.16	10277.21	-1272.93	10352.58	0.00	
21400.00	90.05	359.81	11002.08	10377.21	-1273.26	10452.12	0.00	
21500.00	90.05	359.81	11002.00	10477.21	-1273.59	10551.67	0.00	
21600.00	90.05	359.81	11001.92	10577.21	-1273.92	10651.22	0.00	
21700.00	90.05	359.81	11001.84	10677.21	-1274.25	10750.77	0.00	
21800.00	90.05	359.81	11001.76	10777.21	-1274.59	10850.31	0.00	
21900.00	90.05	359.81	11001.68	10877.20	-1274.92	10949.86	0.00	
22000.00	90.05	359.81	11001.60	10977.20	-1275.25	11049.41	0.00	
22100.00	90.05	359.81	11001.52	11077.20	-1275.58	11148.96	0.00	
22200.00	90.05	359.81	11001.32	11177.20	-1275.92	11248.50	0.00	
22300.00	90.05	359.81	11001.36	11277.20	-1276.25	11348.05	0.00	
22400.00	90.05	359.81	11001.38	11377.20	-1276.58	11447.60	0.00	
22500.00	90.05	359.81	11001.20	11477.20	-1276.91	11547.14	0.00	
22600.00	90.05	359.81	11001.20	11577.20	-1277.24	11646.69	0.00	
22700.00	90.05	359.81	11001.12	11677.20	-1277.58	11746.24	0.00	
22800.00	90.05	359.81	11001.04	11777.20	-1277.91	11845.79	0.00	
22900.00	90.05	359.81	11000.37	11877.20	-1278.24	11945.33	0.00	
23000.00	90.05	359.81	11000.83	11977.20	-1278.57	12044.88	0.00	
23100.00	90.05	359.81	11000.73	12077.20	-1278.90	12144.43	0.00	
23200.00	90.05	359.81	11000.73	12177.20	-1276.90	12243.97	0.00	
23300.00	90.05	359.81	11000.63	12177.20	-1279.24	12343.52	0.00	
	90.05						0.00	
23400.00	90.05	359.81	11000.49	12377.20	-1279.90 -1280.23	12443.07	0.00	
23500.00	90.05	359.81 359.81	11000.41	12477.20	-1280.23 -1280.57	12542.62 12642.16	0.00	
23600.00			11000.33	12577.20				
23700.00	90.05	359.81	11000.25	12677.19	-1280.90	12741.71	0.00	
23800.00	90.05	359.81	11000.17	12777.19	-1281.23	12841.26	0.00	
23900.00	90.05	359.81	11000.09	12877.19	-1281.56	12940.80	0.00	
23911.82	90.05	359.81	11000.08	12889.01	-1281.60	12952.57	0.00	exit
23991.82	90.05	359.81	11000.00	12969.01	-1281.80	13032.20	0.00	BHL

<u>C-102</u>					ls & Natura	New Mexico al Resources				Rev	rised July, 2024	
Submit El	lectronically		OIL	CON	ISERVAT	LION DI	VISI	NC				
Via OCD	Permitting								Submittal	✓ Initial Submittal		
							,			☐ Amended Report		
										☐ As Drilled		
				W	ELL LOCAT	ION INFORM	/ATIO	N				
API Number Pool Code						Pool Name						
30-015-55365 9664 Property Code Property				_		ING	Well Number					
Froper	ty code		rroperty	Name	MORGAN	25-13 FED	COM					
OGRID			Operator							Ground Level	Elevation	
6137				DEVON	N ENERGY F	RODUCTION	NY, L.P.		3329.8'			
Surfac	e Owner:	□State □	Fee □Trib	al □Fed	leral	Mineral C)wner:	□State [□Fee □7	Γribal □Federal		
					C	fore Treation						
UL	Section	Township	Range	Lot	Ft. from N	face Location /S Ft. from	E/W	Latitude		Longitude	County	
G	25	25-S	Range Lot		2433' N	1770	′	32.1018		103.728770	EDDY	
<u> </u>		2 0 0	01 L					00.1010		100.120110	пррт	
UL	Section	Township	Danas	Tot	Ft. from N	m Hole Locati		Latitude		Lamaituda	County	
C	13	Township 25-S	Range 31-E	Lot	20' N	2300'	· /	32.1375		Longitude		
	13	25-5	31-F		20 N	2300	YV	32.137	023	103.732676	EDDY	
Dadiast	. 4		imim - W-11	Defining	Wall ADI O	rlapping Spaci:	II	(V/N)	Camaalid	ation Code		
				Delining	well API Ove.	riapping spaci.	ng om	(1/N)	consona	ation code		
320.0	-	INFILI	_									
Order 1	Numbers				Well	l setbacks are under Common Ownership: □Yes □No						
					Kick 0	ff Point (KOP))					
UL	Section	Township	Range	Lot	Ft. from N			Latitude		Longitude	County	
F	25	-	31-E		2576' FN	•	w/I	32.1014		-103.7329	EDDY	
-	23	25-S	JI L			ake Point (FT		32.1017		103.7329	EDD1	
UL	Section	Township	Range	Lot	Ft. from N			Latitude		Longitude	County	
F	25	25-S	31-E	200	2538' N	2300'	·	32.101		103.732766	EDDY	
_			01 1					0.0.101		1030.	2221	
717	Section	M 1- i	D	T - 4	Ft. from N	ake Point (LT)		Latitude		T : 4 3 -	C	
UL C	13	Township 25-S	Range 31-E	Lot	100' N	2300'	,	32.137		Longitude 103.732676	County EDDY	
	10	20-S	31-E		100 N	2500	**	J&.1J76	505	103.732070	EDDI	
					Specing	Unit Type H	[origon t	tol Vortic	ol C	round Floor Ele	votion	
					Spacing	ome type in	10112011	tal Vertic	aı G	Tound Floor Ele	vacion.	
OPERAT	OR CERTI	FICATIONS				SURVEYOR CI	ERTIFIC.	ATIONS				
					omplete to the best onal well, that this	I hereby certify that the well location shown on this plat was plotted from field notes						
organizati	ion either owr	ns a working inte	rest or unlease	d mineral in	terest in the land	of actual surveys			pervision, a	nd that the same is true		
		bottom hole loca ontract with an o					c or my oc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		RT R. C	DEN	
location pursuant to a contract with an owner of a working interest or u mineral interest, or to a voluntary pooling agreement or a compulsory p			ory pooling order					BEN	SEHOYOS			
heretofore entered by the division.										KA ZEM MICH		
If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral						e				07761	/ / //	
interest in	each tract (ir	the target pool	or formation) is	n which any	part of the well's					7 2520	X / 2	
division.	i interval Will	B	named a compt		ng order from the					\ Z \ \ S \	1 / C	
NYM	y N.	Brown	01/08	3/2025		G: 4	16.		~	100		
Signat	v are		Date			Signature an	id Seal	of Profes	sional S	urveyor / ONAL	5/	
Amy	A. Brow	n										
	d Name					Certificate N	umber	Date of S	Survey			
	.brown@	dvn.com				23261		10/202	24			
Email	Address					20201		10/202	- 1			

ACREAGE DEDICATION PLATS

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

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

SURFACE HOLE LOCATION
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LOCATION
2433' FNL 1770' FEL SECTION 25
EL: 3329.8'
N:40136.10/E:728538.98
LAT:32.101854/LDN:103.728770

KICK DFF PDINT
CALLS:2576.FNL,2299' FWL
N:401164.L/E: 10543.65
LAT:32.1014_/LDN:_103.7329

FIRST TAKE PDINT
2540' FNL 2300' FWL SECTION 25
N:401201.38/E:727302.09
LAT:32.101558/LDN:103.732766

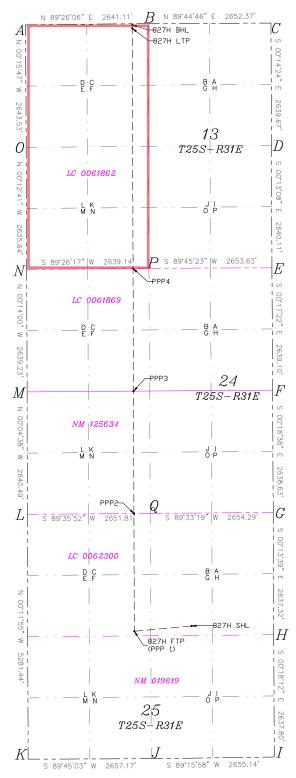
LAST TAKE PDINT
100' FNL 2300' FWL SECTION 13
N:414205.11/E:727257.54

BOTTOM HOLE LOCATION 20' FNL 2300' FWL SECTION 13 N:414285.11/E:727257.18 LAT:32.137523/LDN:103.732676

PPP 2 0' FNL 2300' FWL SECTION 25 N:403739.77/E:727293.40 LAT:32.108536/LDN:103.732749

PPP 3 2641' FSL 2295' FWL SECTION 24 N:406380.31/E:727284.35 LAT:32.115794/LDN:103.732730

PPP 4 0' FSL 2296' FWL SECTION 13 N:409025.84/E:727275.29 LAT:32.123066/LDN:103.732712



A= N:414282.44 E:724957.17 B= N:414308.48 E:727598.15 C= N:414320.23 E:730250.50 D= N:411680.59 E:730261.56 E= N:409040.49 E:730271.65 F= N:406401.43 E:730284.99 G= N:403762.83 E:730299.28 H= N:401125.54 E:730309.76 I= N:398487.77 E:730323.72 J= N:398453.76 F:727668.80 K= N:398442.20 E:725011.65 L= N:403723.61 F:724993.33 M= N:406364.11 E:724989.78 E:724979.03 N= N:409003.32 □= N:411638.94 E:724969.31 E:727618.04 P= N:409029.21 Q= N:403742.23 E:727645.07

C-10	าว				State of	New Mexico			Rev	rised July, 2024	
		Energy, OII.		ls & Natura	New Mexico al Resources Dep FION DIVIS			1.67.354 64.37, 202.			
	lectronically Permitting				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			6.11			
								Submittal Type:	☐ Amended Repor	t	
									☐ As Drilled		
W					ELL LOCAT	ION INFORMATION		'			
API N	umber		Pool Cod			Pool Name					
	15-55365 rty Code		9786 Property	-		JENNINGS	BONE SI	PRING V	VEST Well Number		
Frope	rty code		rioperty	Name	MORGAN	25-13 FED COM			827H		
OGRID	No. 6137		Operator		N ENERGY P	PRODUCTION COMP	PANY I. P		Ground Level 3329.8'	Elevation	
Surfac		□State □	∟ Fee □Trib						Tribal □Federal		
					Sur	face Location					
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County	
G	25	25-S	•		2433' N	1770' E	32.101	854	103.728770	EDDY	
					Botto	m Hole Location					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County	
С	13	25-S	31-E		20' N	2300' W	32.137	523	103.732676	EDDY	
Dedicate	ed Acres 1	nfill or Def	ining Well	Defining	Well API Over	rlapping Spacing Un	it (Y/N)	Consolid	lation Code		
		INFILI		Derining	Well All Over	rrapping spacing of	10 (1/14)	Consoni	acion code		
480.0	Numbers	INFILI	_								
order	Numbers				wen	i setbacks are unde	r common	Ownersh	nip: □Yes □No		
					Kick Of	ff Point (KOP)					
UL	Section	Township	Range	Lot	Ft. from N	/S Ft. from E/W	Latitude		Longitude	County	
F	25	25-S	31-E	2576' FN		L 2299' FWL	2299' FWL 32.1014		-103.7329	EDDY	
				ı		ake Point (FTP)					
UL	Section	Township	Range	Lot	Ft. from N	·	Latitude		Longitude	County	
F	25	25-S	31-E		2538' N	2300' W	32.101	558	103.732766	EDDY	
				1		ake Point (LTP)					
UL	Section	Township	Range	Lot	Ft. from N	' · · · · · · · · · · · · · · · · · ·	Latitude		Longitude	County	
С	13	25-S	31-E		100' N	2300' W	32.137	303	103.732676	EDDY	
					Spacing	Unit Type Horizon	ntal Verti	cal (Ground Floor Ele	vation:	
OPERAT	OR CERTI	FICATIONS				SURVEYOR CERTIFI	CATIONS				
I hereby of	certify that the	information cor			omplete to the best			own on this	plat was plotted from fiel	ld notes	
of my knowledge and belief, and, if the well is a vertical or directional organization either owns a working interest or unleased mineral interes				terest in the land	of actual surveys made b	y me or under s		sion, and that the same is true and			
		bottom hole loca ontract with an o				correct to the best of my	bellel.		OT R. DEV		
location pursuant to a contract with an owner of a working interest or unmineral interest, or to a voluntary pooling agreement or a compulsory pheretofore entered by the division.									RERT R. DEHOLOGO		
							E EM MEX	$\langle c_0 \rangle_{\mathcal{S}} \setminus $			
If this well is a horizontal well, I further certify that this organization has received consent of at least one lessee or owner of a working interest or unleased mineral					e	27061					
interest in each tract (in the target pool or formation) in which any part of completed interval will be located or obtained a compulsory pooling order.							P. Dorker	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
		Brown		3/2025	5 are				SAMO		
Signa	7/		Date	31 4043		Signature and Sea	al of Profe	ssional S	Surveyor / ONAL	SUR"	
Amv	A. Brow	n							,//2		
	d Name					Certificate Number	r Date of	Survey			
	.brown@	dvn.com				99964	10 /90	9.4			
Email	Address					23261	10/20	£ 4			

ACREAGE DEDICATION PLATS

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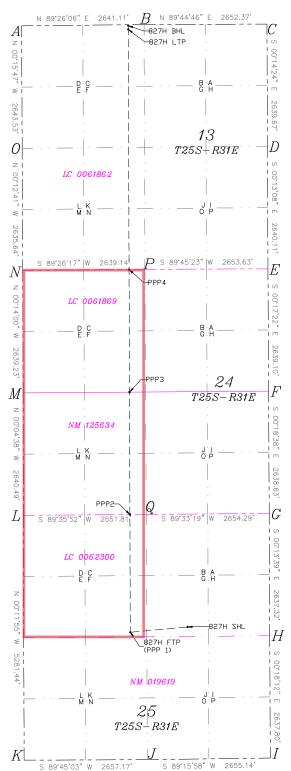
Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

SURFACE HOLE LOCATION
GEODETIC COORDINATES NAD 83
NMSP EAST SURFACE LOCATION
2433' FNL 1770' FEL SECTION 25
EL: 3329.8'
N:401316.10/E:728538.98
LAT:32 101854/L [Di:103.728770] LAT:32.101854/LDN:103.728770 KICK OFF POINT CALLS: 2576' FNL, 2299' FWL N: 401164.1 / E: _10543.65 LAT: 32.1014 _ / LDN: _103.7329 FIRST TAKE POINT FNL 2300' FWL SECTION 25 N:401201.38/E:727302.09 LAT:32.101558/LON:103.732766 LAST TAKE POINT FNL 2300' FWL SECTION 13 N:414205.11/E:727257.54 LAT:32.137303/LDN:103.732676 BOTTOM HOLE LOCATION 20' FNL 2300' FWL SECTION 13 N:414285.11/E:727257.18 LAT:32.137523/LDN:103.732676 <u>PPP 2</u> FNL 2300' FWL SECTION 25 N:403739.77/E:727293.40 LAT:32.108536/LDN:103.732749 2641' FSL 2295' FWL SECTION 24 N:406380.31/E:727284.35 LAT:32.115794/LDN:103.732730

> <u>PPP 4</u> FSL 2296' FWL SECTION 13 N:409025.84/E:727275.29

LAT:32.123066/LDN:103.732712

A= N:414282.44 E:724957.17 B= N:414308.48 E:727598.15 C= N:414320.23 E:730250.50 D= N:411680.59 E:730261.56 E= N:409040.49 E:730271.65 F= N:406401.43 E:730284.99 G= N:403762.83 E:730299.28 H= N:401125.54 E:730309.76 I= N:398487.77 E:730323.72 J= N:398453.76 F:727668.80 K= N:398442.20 E:725011.65 L= N:403723.61 F:724993.33 M= N:406364.11 E:724989.78 E:724979.03 N= N:409003.32 □= N:411638.94 E:724969.31 E:727618.04 P= N:409029.21 Q= N:403742.23 E:727645.07



Morgan 25-13 Fed Com 827H

10 3/4	sur	face csg in a	14 3/4	inch hole.		Design I	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight
"A"	45.50		j 55	btc	15.26	4.34	0.63	1,030	8	1.05	8.20	46,865
"B"				btc				0				0
	w/8 4#	/g mud, 30min Sfc Csg Test	t nsig: 1 500	Tail Cmt	does not	circ to sfc.	Totals:	1,030				46,865
omparison o		inimum Required Cem						1,000				,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
14 3/4	0.5563	586	844	573	47	9.00	3398	5M				1.50
urst Frac Grad	lient(s) for Segme	nt(s) A, B = , b All > 0.	.70, OK.									
8 5/8		ng inside the	10 3/4			<u>Design I</u>				Int 1	_	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A" "B"	32.00		p 110	vam sprint fj	2.23	0.7	1.19	10,442 0	1	2.00	1.18	334,14 0
	w/8.4#	/g mud, 30min Sfc Csg Test	t psig: 448				Totals:	10,442				334,14
		The cement	volume(s) are intend	led to achieve a top of	0	ft from su	rface or a	1030				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
9 7/8	0.1261	422	608	1325	-54	10.50	3580	5M				0.61
	****		6754			10100	sum of sx	Σ CuFt				Σ%exces
D V Tool(s):												
oy stage % :	t yld > 1.35	31	28				900	1707				29
by stage % : Class 'C' tail cm			28			Docign Fa	900			Prod 1		29
by stage % : Class 'C' tail cm Tail cmt 5 1/2	casi	ng inside the		Counting	loint	Design Fac	900 ctors	1707	R∕©e	Prod 1	a.C	
by stage % : Class 'C' tail cm Tail cmt 5 1/2 Segment	casi #/ft		28 8 5/8	Coupling	Joint 3 21	Collapse	900 ctors Burst	1707	B@s	а-В	a-C	Weigh
Tail cmt 5 1/2 Segment "A"	casi	ng inside the	28	Coupling dwc/c is+	Joint 3.31		900 ctors	1707 Length 23,992	B@s 2		a-C 3.38	Weig h 479,84
Tail cmt 5 1/2 Segment "A" "B"	casi #/ft	ng inside the	28 8 5/8			Collapse	900 ctors Burst	Length 23,992	_	а-В		Weigh 479,84
Tail cmt 51/2 Segment "A" "B" "C"	casi #/ft	ng inside the	28 8 5/8			Collapse	900 ctors Burst	Length 23,992 0	_	а-В		Weigh 479,84 0
Tail cmt 5 1/2 Segment "A" "B"	casi #/ft 20.00	ng inside the Grade	8 5/8 p 110			Collapse	900 Ctors Burst 2.39	Length 23,992 0 0	_	а-В		Weigh 479,84 0 0
Tail cmt 51/2 Segment "A" "C"	casi #/ft 20.00	ng inside the Grade	28 8 5/8 p 110	dwc/c is+	3.31	Collapse 2.02	900 Ctors Burst 2.39 Totals:	1707 Length 23,992 0 0 23,992	_	а-В		Weigh 479,84 0 0 0 479,84
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D"	casi #/ft 20.00	ng inside the Grade /g mud, 30min Sfc Csg Test The cement	8 5/8 p 110 s psig: 2,420 volume(s) are intended	dwc/c is+	3.31	Collapse 2.02	900 Ctors Burst 2.39 Totals: rface or a	Length 23,992 0 0 0 23,992 200	_	а-В		Weigh 479,84 0 0 0 479,84 overlap.
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D"	casi #/ft 20.00 w/8.4#	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage	dwc/c is+	3.31 10242 1 Stage	Collapse 2.02 ft from su Drilling	900 Ctors Burst 2.39 Totals: rface or a Calc	Length 23,992 0 0 0 23,992 200 Req'd	_	а-В		Weigh 479,84 0 0 0 479,84 overlap.
5 1/2 Segment "A" "B" "C" "D"	casi #/ft 20.00 w/8.4# Annular Volume	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ led to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt	900 Ctors Burst 2.39 Totals: rface or a	Length 23,992 0 0 0 23,992 200	_	а-В		Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp
Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8	casi #/ft 20.00 w/8.4# Annular Volume 0.1733	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage	dwc/c is+	3.31 10242 1 Stage	Collapse 2.02 ft from su Drilling	900 Ctors Burst 2.39 Totals: rface or a Calc	Length 23,992 0 0 0 23,992 200 Req'd	_	а-В		Weigh 479,84 0 0 0 479,84 overlap.
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm	casi #/ft 20.00 w/8.4# Annular Volume 0.1733	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ led to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt	900 Ctors Burst 2.39 Totals: rface or a Calc	Length 23,992 0 0 0 23,992 200 Req'd	_	а-В		Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm	casi #/ft 20.00 w/8.4# Annular Volume 0.1733	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946	dwc/c is+ led to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 23,992 0 0 0 23,992 200 Req'd	2	a-B 4.01	3.38	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 tyld>1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1897	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	dwc/c is+ led to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess 24	ft from su Drilling Mud Wt	Totals: rface or a Calc MASP	Length 23,992 0 0 0 23,992 200 Req'd	2	а-В	3.38	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 class 'C' tail cm	casi #/ft 20.00 w/8.4# Annular Volume 0.1733	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946	dwc/c is+	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 23,992 0 0 0 23,992 200 Req'd BOPE	2	a-B 4.01	3.38	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 class 'C' tail cm	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 tyld>1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1897	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946	dwc/c is+	3.31 10242 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 23,992 0 0 0 23,992 200 Req'd BOPE	2 <c< td=""><td>a-B 4.01</td><td>3.38</td><td>Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79</td></c<>	a-B 4.01	3.38	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 tyld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1897 Grade	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946	dwc/c is+	3.31 10242 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 23,992 0 0 0 23,992 200 Req'd BOPE	2 <c< td=""><td>a-B 4.01</td><td>3.38</td><td>Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79</td></c<>	a-B 4.01	3.38	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A"	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 tyld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1897 Grade	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946	dwc/c is+	3.31 10242 1 Stage % Excess 24 #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: Factors Burst Totals: Totals:	Length 23,992 0 0 0 23,992 200 Req'd BOPE	2 <c< td=""><td>a-B 4.01</td><td>3.38 ing> a-C</td><td>Weight 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79</td></c<>	a-B 4.01	3.38 ing> a-C	Weight 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B"	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 t yld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 1897 Grade /g mud, 30min Sfc Csg Test Cmt vol ca	28 8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946 5 1/2	dwc/c is+ ded to achieve a top of Min Cu Ft 2383 Coupling 0.00 0.00 his csg, TOC intended	3.31 10242 1 Stage % Excess 24 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Factors Burst Totals:	Length 23,992 0 0 0 23,992 200 Req'd BOPE Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 <c< td=""><td>a-B 4.01</td><td>3.38 ing> a-C</td><td>Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79</td></c<>	a-B 4.01	3.38 ing> a-C	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B" Hole	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 tyld>1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement 1 Stage Cmt Sx 1897 Grade	8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946 5 1/2 t psig: alc below includes ti 1 Stage	dwc/c is+ ded to achieve a top of Min Cu Ft 2383 Coupling 0.00 0.00 his csg, TOC intended Min	3.31 10242 1 Stage % Excess 24 #N/A #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Totals: rface or a Calc MASP	Length 23,992 0 0 23,992 200 Req'd BOPE Length 0 0 0 #NI/A Req'd	2 <c< td=""><td>a-B 4.01</td><td>3.38 ing> a-C</td><td>Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79 Weigh 0 0 overlap. Min Dis</td></c<>	a-B 4.01	3.38 ing> a-C	Weigh 479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.79 Weigh 0 0 overlap. Min Dis
by stage %: Class 'C' tail cm Tail cmt 5 1/2 Segment "A" "B" "C" "D" Hole Size 7 7/8 Class 'C' tail cm #N/A 0 Segment "A" "B"	casi #/ft 20.00 w/8.4# Annular Volume 0.1733 t yld > 1.35	ng inside the Grade /g mud, 30min Sfc Csg Test The cement of 1 Stage Cmt Sx 1897 Grade /g mud, 30min Sfc Csg Test Cmt vol ca	28 8 5/8 p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 2946 5 1/2	dwc/c is+ ded to achieve a top of Min Cu Ft 2383 Coupling 0.00 0.00 his csg, TOC intended	3.31 10242 1 Stage % Excess 24 #N/A	ft from su Drilling Mud Wt 10.50 Design I Collapse	Totals: rface or a Calc MASP Factors Burst Totals:	Length 23,992 0 0 0 23,992 200 Req'd BOPE Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 <c< td=""><td>a-B 4.01</td><td>3.38 ing> a-C</td><td>Weigh 479,84 0 0 479,84 overlap. Min Dis. Hole-Cp 0.79 Weigh 0 0</td></c<>	a-B 4.01	3.38 ing> a-C	Weigh 479,84 0 0 479,84 overlap. Min Dis. Hole-Cp 0.79 Weigh 0 0

Carlsbad Field Office 1/29/2025

#N/A

#N/A

Capitan Reef est top XXXX.

Morgan 25-13 Fed Com 827H

9 5/8	sur	face csg in a	13 1/2 i	nch hole.		Design	Factors			Surface		
Segment	#/ft	Grade		Coupling	Body	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	40.00		j 55	btc	15.29	5.34	0.69	1,030	9	1.16	10.08	41,200
"B"				btc				0				0
	w/8.4#,	/g mud, 30min Sfc Csg Tes	t psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,030				41,200
omparison o		inimum Required Cem										,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
13 1/2	0.4887	512	737	503	46	9.00	3398	5M				1.44
urst Frac Grac	dient(s) for Segme	nt(s) A, B = , b All > 0	.70, OK.									
7 5/8		ng inside the	9 5/8			<u>Design</u>				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A"	29.70		p 110	talon sfc	2.95	1.27	1.79	10,442	2	3.00	2.14	
"B"								0				0
	w/8.4#,	/g mud, 30min Sfc Csg Tes					Totals:	10,442				310,12
				ed to achieve a top of	0	ft from su		1030				overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
8 3/4	0.1005	336	484	1058	-54	10.50	3580	5M				0.43
D V Tool(s):			6754				sum of sx	Σ CuFt				Σ%exces
by stage % :		31	27				714	1353				28
Tail cmt												
5 1/2		ng inside the	7 5/8			Design Fa				Prod 1		
5 1/2 Segment	#/ft	ng inside the Grade	·	Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	_
5 1/2 Segment "A"			75/8 p 110	Coupling talon rd	Joint 3.31			23,992	B@s 2		-	479,84
5 1/2 Segment "A" "B"	#/ft		·			Collapse	Burst	23,992 0	_	a-B	-	479,84 0
5 1/2 Segment "A" "B" "C"	#/ft		·			Collapse	Burst	23,992 0 0	_	a-B	-	479,84 0 0
5 1/2 Segment "A" "B"	#/ft 20.00	Grade	p 110			Collapse	Burst 2.39	23,992 0 0 0	_	a-B	-	479,84 0 0
5 1/2 Segment "A" "B" "C"	#/ft 20.00	Grade /g mud, 30min Sfc Csg Tes	p 110 t psig: 2,420	talon rd	3.31	Collapse 2.19	Burst 2.39 Totals:	23,992 0 0 0 23,992	_	а-В	-	479,84 0 0 0 479,84
51/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4#,	Grade /g mud, 30min Sfc Csg Tes The cement	p 110 t psig: 2,420 volume(s) are intend	talon rd	3.31	Collapse 2.19	Burst 2.39 Totals:	23,992 0 0 0 23,992 200	_	а-В	-	479,84 0 0 0 479,84 overlap.
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4#,	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage	p 110 t psig: 2,420 volume(s) are intend 1 Stage	talon rd ed to achieve a top of Min	3.31 10242 1 Stage	Collapse 2.19 ft from su Drilling	Burst 2.39 Totals: rface or a Calc	23,992 0 0 0 23,992 200 Req'd	_	а-В	-	479,84 0 0 0 479,84 overlap. Min Dis
5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00 w/8.4#, Annular Volume	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	talon rd ed to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 2.39 Totals:	23,992 0 0 0 23,992 200	_	а-В	-	0 479,84 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4	#/ft 20.00 w/8.4#, Annular Volume 0.0835	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage	p 110 t psig: 2,420 volume(s) are intend 1 Stage	talon rd ed to achieve a top of Min	3.31 10242 1 Stage	Collapse 2.19 ft from su Drilling	Burst 2.39 Totals: rface or a Calc	23,992 0 0 0 23,992 200 Req'd	_	а-В	-	479,84 0 0 0 479,84 overlap. Min Dis
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm	#/ft 20.00 w/8.4#, Annular Volume 0.0835	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	talon rd ed to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt	Burst 2.39 Totals: rface or a Calc	23,992 0 0 0 23,992 200 Req'd	_	а-В	-	479,84 0 0 479,84 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm	#/ft 20.00 w/8.4#, Annular Volume 0.0835	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438	talon rd ed to achieve a top of Min Cu Ft	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.39 Totals: rface or a Calc MASP	23,992 0 0 0 23,992 200 Req'd	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm	#/ft 20.00 w/8.4#, Annular Volume 0.0835	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt	ed to achieve a top of Min Cu Ft 1149	3.31 10242 1 Stage % Excess 25	ft from su Drilling Mud Wt 10.50	Burst 2.39 Totals: rface or a Calc MASP	23,992 0 0 23,992 200 Req'd BOPE	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm	#/ft 20.00 w/8.4#, Annular Volume 0.0835 btyld > 1.35	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438	ed to achieve a top of Min Cu Ft 1149 Coupling	3.31 10242 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Burst 2.39 Totals: rface or a Calc MASP	23,992 0 0 23,992 200 Req'd BOPE	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Dis Hole-Cp
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w/8.4#, Annular Volume 0.0835 btyld > 1.35	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438	ed to achieve a top of Min Cu Ft 1149 Coupling 0.00	3.31 10242 1 Stage % Excess 25	ft from su Drilling Mud Wt 10.50	Burst 2.39 Totals: rface or a Calc MASP	23,992 0 0 23,992 200 Req'd BOPE	2	a-B 4.01	3.67	479,84 0 0 0 479,84 overlap. Min Dis Hole-Cp 0.43
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 class 'C' tail cm #N/A 0 Segment	#/ft 20.00 w/8.4#, Annular Volume 0.0835 at yld > 1.35	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920 Grade	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438	ed to achieve a top of Min Cu Ft 1149 Coupling	3.31 10242 1 Stage % Excess 25	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP Factors Burst	23,992 0 0 23,992 200 Req'd BOPE	2	a-B 4.01	3.67	479,82 0 0 479,82 overlap. Min Dis Hole-Cr 0.43 Weight
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w/8.4#, Annular Volume 0.0835 at yld > 1.35	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920 Grade	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438 5 1/2	talon rd ed to achieve a top of Min Cu Ft 1149 Coupling 0.00 0.00	3.31 10242 1 Stage % Excess 25 #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: rface or a Calc MASP Factors Burst Totals:	23,992 0 0 23,992 200 Req'd BOPE Length 0 0	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Dis Hole-Cp 0.43
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A" "B"	#/ft 20.00 w/8.4#, Annular Volume 0.0835 ht yld > 1.35 #/ft	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920 Grade /g mud, 30min Sfc Csg Tes Cmt vol c	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438 5 1/2	talon rd ed to achieve a top of Min Cu Ft 1149 Coupling 0.00 0.00 his csg, TOC intended	3.31 10242 1 Stage % Excess 25 #N/A	ft from su Drilling Mud Wt 10.50 Design Collapse	Totals: rface or a Calc MASP Factors Burst Totals:	23,992 0 0 23,992 200 Req'd BOPE Length 0 0 #N/A	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Di Hole-Cp 0.43 Weigl 0 0 overlap.
5 1/2 Segment "A" "B" "C" "D" Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A"	#/ft 20.00 w/8.4#, Annular Volume 0.0835 at yld > 1.35	Grade /g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920 Grade	p 110 t psig: 2,420 volume(s) are intend 1 Stage CuFt Cmt 1438 5 1/2	talon rd ed to achieve a top of Min Cu Ft 1149 Coupling 0.00 0.00	3.31 10242 1 Stage % Excess 25 #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: rface or a Calc MASP Factors Burst Totals:	23,992 0 0 23,992 200 Req'd BOPE Length 0 0	2	a-B 4.01	3.67	479,84 0 0 479,84 overlap. Min Di Hole-Cp 0.43

#N/A

Carlsbad Field Office 1/29/2025

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#N/A

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 426549

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	426549
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By		Condition Date
ward.rikala	Administrative order required for non-standard spacing unit prior to production.	4/2/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/2/2025