

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

Sundry Print Reports
01/23/2025

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

SWNE / 32.101855 / -103.728673

JM

Well Number: 627H Type of Well: OIL WELL Allottee or Tribe Name:

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

US Well Number: 3001555589 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2831327

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/13/2025 Time Sundry Submitted: 08:49

Date proposed operation will begin: 01/14/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move BHL on the subject well. We also request a change 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, 2030 FWL, 13-25S-31E

NOI Attachments

Procedure Description

5.5_20lb_P110HP_TALON_RD_20250113084618.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20250113084605.pdf

9.625_40lb_J55_SeAH_20250113084535.pdf

MORGAN_25_13_FED_COM_627H__20250113083957.pdf

MORGAN_25_13_FED_COM_627H_Directional_Plan_11_21_24_20250113083935.pdf

WA022390603_MORGAN_25_13_FED_COM_627H_WL_R1_SIGNED_20250113083918.pdf

well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: EDBY 7 of

SWNE / 32.101855 / -103.728673

Well Number: 627H Type of Well: OIL WELL Allottee or Tribe Name:

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

PRODUCTION COMPANY LP

Conditions of Approval

Specialist Review

Morgan_25_13_Fed_Com_627H_Sundry_ID_2831327_20250122122942.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 13, 2025 08:46 AM

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:** 01/22/2025

Signature: Long Vo

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BURI	EAU OF LAND MANAGEMENT	5. Lease Serial No.		
Do not use this f	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee or Tribe	Name	
SUBMIT IN 1	TRIPLICATE - Other instructions on pag	7. If Unit of CA/Agreement, N	Name and/or No.	
1. Type of Well Oil Well Gas W	/ell Other		8. Well Name and No.	
2. Name of Operator			9. API Well No.	
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or Explora	tory Area
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)		11. Country or Parish, State	
12. CHE	CK THE APPROPRIATE BOX(ES) TO IN	DICATE NATURE (DF NOTICE, REPORT OR OTI	HER DATA
TYPE OF SUBMISSION		TYPI	E OF ACTION	
Notice of Intent	Acidize Deep Alter Casing Hydr	oen raulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report		Construction and Abandon	Recomplete Temporarily Abandon	Other
Final Abandonment Notice		Back	Water Disposal	
is ready for final inspection.)				
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	TOTAL STATE OF THE		
		Title		
Signature				
	THE SPACE FOR FED	ERAL OR STA	TE OFICE USE	
Approved by				
		Title		Date
	ned. Approval of this notice does not warrar equitable title to those rights in the subject led duct operations thereon.			
	3 U.S.C Section 1212, make it a crime for a ents or representations as to any matter with		and willfully to make to any do	epartment or agency of the United States

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2433 FNL / 1740 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101855 / LONG: -103.728673 (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: 11721 feet)
PPP: SWSE / 146 FSL / 2307 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.123451 / LONG: -103.7304855 (TVD: 11817 feet, MD: 19700 feet)
PPP: SWNE / 2454 FNL / 2308 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1163042 / LONG: -103.7304944 (TVD: 11835 feet, MD: 17100 feet)
PPP: SWSE / 125 FSL / 2311 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1088825 / LONG: -103.7305035 (TVD: 11854 feet, MD: 14400 feet)
BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.137526 / LONG: -103.730468 (TVD: 11782 feet, MD: 24821 feet)

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

-				
IECHANICAL PROPERTIES	Pipe	USS-TALON HTQ™ RD		
Minimum Yield Strength	125,000		psi	
Maximum Yield Strength	140,000		psi	
Minimum Tensile Strength	130,000		psi	
IMENSIONS	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	
ECTION AREA	Pipe	USS-TALON HTQ™ RD		
Critical Area	5.828	5.828	sq. in.	
Joint Efficiency		100.0	%	
ERFORMANCE	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	
Maximum Uniaxial Bend Rating		104.2	deg/100 ft	
IAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Make op 2000				
Minimum Make-Up Torque		18,400	ft-lb	
·		18,400 21,400	ft-lb ft-lb	

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.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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

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.

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



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.

MORGAN 25-13 FED COM 627H

1. Geologic Formations

TVD of target	11783		N/A
MD at TD:	24922	Deepest expected fresh water	

Basin

Dasiii	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		
Wolfcamp	11645		

^{*}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		Csg Size 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	11367	0	11367		
6 3/4	5 1/2	20	P110HP	TALON RD	0	24922	0	11783		

[•]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	381	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	416	6867	13.2	1.44	Tail: Class H / C + additives
Production	62	9467	9	3.27	Lead: Class H /C + additives
Froduction	858	11467	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	11367	0	11367
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	24922	0	11783

[•]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	482	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
IIIt I	522	6867	13.2	1.44	Tail: Class H / C + additives
Production	117	9467	9	3.27	Lead: Class H /C + additives
Froduction	1781	11467	13.2	1.44	Tail: Class H / C + additives

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	Ty	ype	✓	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
			Other*			
			Annul	ar (5M)	X	50% of rated working
						pressure
Production	13-5/8"	5M		d Ram	X	
Troduction	13 3/0	31/1		Ram		5M
				le Ram	X	5111
			Other*			
			Annul	ar (5M)		
			Blind	d Ram		
			Pipe	Ram		
			Doub	le 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

	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	6433
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.

MORGAN 25-13 FED COM 627H

8. Other facets of operation

Is this a walking operation? Potentially

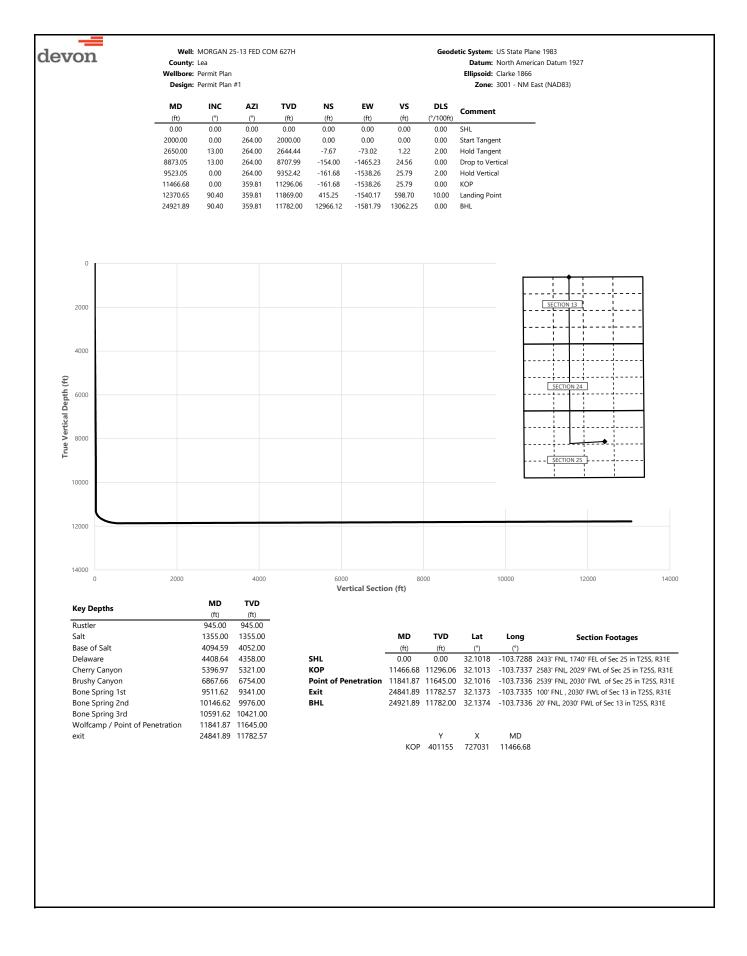
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and 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





 Well:
 MORGAN 25-13 FED COM 627H
 Geodetic System:
 US State Plane 1983

 County:
 Lea
 Datum:
 North American Datum 1927

 Wellbore:
 Permit Plan
 Ellipsoid:
 Clarke 1866

 Design:
 Permit Plan #1
 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				
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	SHL				
100.00	0.00	264.00	100.00	0.00	0.00	0.00	0.00					
200.00	0.00	264.00	200.00	0.00	0.00	0.00	0.00					
300.00	0.00	264.00	300.00	0.00	0.00	0.00	0.00					
400.00	0.00	264.00	400.00	0.00	0.00	0.00	0.00					
500.00	0.00	264.00	500.00	0.00	0.00	0.00	0.00					
600.00	0.00	264.00	600.00	0.00	0.00	0.00	0.00					
700.00 800.00	0.00	264.00 264.00	700.00 800.00	0.00	0.00	0.00	0.00					
900.00	0.00	264.00	900.00	0.00	0.00	0.00	0.00					
945.00	0.00	264.00	945.00	0.00	0.00	0.00	0.00	Rustler				
1000.00	0.00	264.00	1000.00	0.00	0.00	0.00	0.00					
1100.00	0.00	264.00	1100.00	0.00	0.00	0.00	0.00					
1200.00	0.00	264.00	1200.00	0.00	0.00	0.00	0.00					
1300.00	0.00	264.00	1300.00	0.00	0.00	0.00	0.00					
1355.00	0.00	264.00	1355.00	0.00	0.00	0.00	0.00	Salt				
1400.00	0.00	264.00	1400.00	0.00	0.00	0.00	0.00					
1500.00	0.00	264.00	1500.00	0.00	0.00	0.00	0.00					
1600.00	0.00	264.00	1600.00	0.00	0.00	0.00	0.00					
1700.00 1800.00	0.00	264.00 264.00	1700.00 1800.00	0.00	0.00	0.00	0.00					
1900.00	0.00	264.00	1900.00	0.00	0.00	0.00	0.00					
2000.00	0.00	264.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent				
2100.00	2.00	264.00	2099.98	-0.18	-1.74	0.03	2.00					
2200.00	4.00	264.00	2199.84	-0.73	-6.94	0.12	2.00					
2300.00	6.00	264.00	2299.45	-1.64	-15.61	0.26	2.00					
2400.00	8.00	264.00	2398.70	-2.91	-27.73	0.46	2.00					
2500.00	10.00	264.00	2497.47	-4.55	-43.28	0.73	2.00					
2600.00	12.00	264.00	2595.62	-6.54	-62.26	1.04	2.00					
2650.00	13.00	264.00	2644.44	-7.67	-73.02	1.22	2.00	Hold Tangent				
2700.00 2800.00	13.00 13.00	264.00 264.00	2693.16 2790.59	-8.85 -11.20	-84.21 -106.58	1.41 1.79	0.00					
2900.00	13.00	264.00	2888.03	-13.55	-128.95	2.16	0.00					
3000.00	13.00	264.00	2985.47	-15.91	-151.32	2.54	0.00					
3100.00	13.00	264.00	3082.90	-18.26	-173.70	2.91	0.00					
3200.00	13.00	264.00	3180.34	-20.61	-196.07	3.29	0.00					
3300.00	13.00	264.00	3277.78	-22.96	-218.44	3.66	0.00					
3400.00	13.00	264.00	3375.21	-25.31	-240.81	4.04	0.00					
3500.00	13.00	264.00	3472.65	-27.66	-263.18	4.41	0.00					
3600.00	13.00	264.00	3570.09	-30.01	-285.55	4.79	0.00					
3700.00	13.00	264.00	3667.53	-32.37	-307.93	5.16	0.00					
3800.00 3900.00	13.00 13.00	264.00 264.00	3764.96 3862.40	-34.72 -37.07	-330.30 -352.67	5.54 5.91	0.00					
4000.00	13.00	264.00	3959.84	-37.07	-375.04	6.29	0.00					
4094.59	13.00	264.00	4052.00	-41.64	-396.20	6.64	0.00	Base of Salt				
4100.00	13.00	264.00	4057.27	-41.77	-397.41	6.66	0.00	Subsection Suit				
4200.00	13.00	264.00	4154.71	-44.12	-419.79	7.04	0.00					
4300.00	13.00	264.00	4252.15	-46.47	-442.16	7.41	0.00					
4400.00	13.00	264.00	4349.59	-48.83	-464.53	7.79	0.00					
4408.64	13.00	264.00	4358.00	-49.03	-466.46	7.82	0.00	Delaware				
4500.00	13.00	264.00	4447.02	-51.18	-486.90	8.16	0.00					
4600.00	13.00	264.00	4544.46	-53.53	-509.27	8.54	0.00					
4700.00 4800.00	13.00 13.00	264.00 264.00	4641.90 4739.33	-55.88 -58.23	-531.64 -554.02	8.91 9.29	0.00					
4900.00	13.00	264.00	4836.77	-56.23 -60.58	-554.02 -576.39	9.66	0.00					
5000.00	13.00	264.00	4934.21	-62.93	-598.76	10.04	0.00					
5100.00	13.00	264.00	5031.64	-65.29	-621.13	10.41	0.00					
5200.00	13.00	264.00	5129.08	-67.64	-643.50	10.79	0.00					
5300.00	13.00	264.00	5226.52	-69.99	-665.88	11.16	0.00					
5396.97	13.00	264.00	5321.00	-72.27	-687.57	11.53	0.00	Cherry Canyon				
5400.00	13.00	264.00	5323.96	-72.34	-688.25	11.54	0.00					
5500.00	13.00	264.00	5421.39	-74.69	-710.62	11.91	0.00					
5600.00	13.00	264.00	5518.83	-77.04	-732.99	12.29	0.00					
5700.00	13.00	264.00	5616.27	-79.39	-755.36	12.66	0.00					
5800.00 5900.00	13.00 13.00	264.00 264.00	5713.70 5811 14	-81.75 -84.10	-777.74 -800.11	13.04	0.00					
6000.00	13.00	264.00	5811.14 5908.58	-84.10 -86.45	-822.48	13.41 13.79	0.00					
6100.00	13.00	264.00	6006.01	-88.80	-844.85	14.16	0.00					
6200.00	13.00	264.00	6103.45	-91.15	-867.22	14.54	0.00					
6300.00	13.00	264.00	6200.89	-93.50	-889.59	14.91	0.00					



Well: MORGAN 25-13 FED COM 627H

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#1					Zone: 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
5400.00	13.00	264.00	6298.33	-95.85	-911.97	15.29	0.00	
5500.00	13.00	264.00	6395.76	-98.21	-934.34	15.66	0.00	
5600.00	13.00	264.00	6493.20	-100.56	-956.71	16.04	0.00	
5700.00	13.00	264.00	6590.64	-102.91	-979.08	16.41	0.00	
5800.00	13.00	264.00	6688.07	-105.26	-1001.45	16.79	0.00	
								Davidor Canron
867.66	13.00	264.00	6754.00	-106.85	-1016.59	17.04	0.00	Brushy Canyon
900.00	13.00	264.00	6785.51	-107.61	-1023.83	17.16	0.00	
7000.00	13.00	264.00	6882.95	-109.96	-1046.20	17.54	0.00	
100.00	13.00	264.00	6980.38	-112.32	-1068.57	17.91	0.00	
200.00	13.00	264.00	7077.82	-114.67	-1090.94	18.29	0.00	
7300.00	13.00	264.00	7175.26	-117.02	-1113.31	18.66	0.00	
7400.00	13.00	264.00	7272.70	-119.37	-1135.68	19.04	0.00	
7500.00	13.00	264.00	7370.13	-121.72	-1158.06	19.41	0.00	
7600.00	13.00	264.00	7467.57	-124.07	-1180.43	19.79	0.00	
700.00	13.00	264.00	7565.01	-126.42	-1202.80	20.16	0.00	
800.00	13.00	264.00	7662.44	-128.78	-1225.17	20.54	0.00	
900.00	13.00	264.00	7759.88	-131.13	-1247.54	20.91	0.00	
00.00	13.00	264.00	7857.32	-133.48	-1269.92	21.29	0.00	
100.00	13.00	264.00	7954.75	-135.83	-1292.29	21.66	0.00	
200.00	13.00	264.00	8052.19	-138.18	-1314.66	22.04	0.00	
300.00	13.00	264.00	8149.63	-140.53	-1314.00	22.41	0.00	
400.00	13.00	264.00	8247.07	-142.88	-1359.40	22.79	0.00	
500.00	13.00	264.00	8344.50	-145.24	-1381.78	23.16	0.00	
600.00	13.00	264.00	8441.94	-147.59	-1404.15	23.54	0.00	
700.00	13.00	264.00	8539.38	-149.94	-1426.52	23.91	0.00	
800.00	13.00	264.00	8636.81	-152.29	-1448.89	24.29	0.00	
873.05	13.00	264.00	8707.99	-154.00	-1465.23	24.56	0.00	Drop to Vertical
900.00	12.46	264.00	8734.28	-154.62	-1471.14	24.67	2.00	•
00.00	10.46	264.00	8832.28	-156.70	-1490.90	25.00	2.00	
				-158.42				
100.00	8.46	264.00	8930.91		-1507.25	25.27	2.00	
200.00	6.46	264.00	9030.06	-159.78	-1520.16	25.49	2.00	
300.00	4.46	264.00	9129.60	-160.77	-1529.63	25.65	2.00	
400.00	2.46	264.00	9229.42	-161.40	-1535.63	25.75	2.00	
500.00	0.46	264.00	9329.38	-161.67	-1538.16	25.79	2.00	
511.62	0.23	264.00	9341.00	-161.68	-1538.23	25.79	2.00	Bone Spring 1st
523.05	0.00	264.00	9352.42	-161.68	-1538.26	25.79	2.00	Hold Vertical
600.00	0.00	359.81	9429.38	-161.68	-1538.26	25.79	0.00	
700.00	0.00	359.81	9529.38	-161.68	-1538.26	25.79	0.00	
800.00	0.00	359.81	9629.38	-161.68	-1538.26	25.79	0.00	
900.00	0.00	359.81	9729.38	-161.68	-1538.26	25.79	0.00	
00.000	0.00	359.81	9829.38	-161.68	-1538.26	25.79	0.00	
0100.00	0.00	359.81	9929.38	-161.68	-1538.26	25.79	0.00	
0146.62	0.00	359.81	9976.00	-161.68	-1538.26	25.79	0.00	Bone Spring 2nd
0200.00	0.00	359.81	10029.38	-161.68	-1538.26	25.79	0.00	
0300.00	0.00	359.81	10129.38	-161.68	-1538.26	25.79	0.00	
0400.00	0.00	359.81	10229.38	-161.68	-1538.26	25.79	0.00	
500.00	0.00	359.81	10329.38	-161.68	-1538.26	25.79	0.00	D C
591.62	0.00	359.81	10421.00	-161.68	-1538.26	25.79	0.00	Bone Spring 3rd
600.00	0.00	359.81	10429.38	-161.68	-1538.26	25.79	0.00	
700.00	0.00	359.81	10529.38	-161.68	-1538.26	25.79	0.00	
800.00	0.00	359.81	10629.38	-161.68	-1538.26	25.79	0.00	
900.00	0.00	359.81	10729.38	-161.68	-1538.26	25.79	0.00	
000.00	0.00	359.81	10829.38	-161.68	-1538.26	25.79	0.00	
100.00	0.00	359.81	10929.38	-161.68	-1538.26	25.79	0.00	
			11029.38					
200.00	0.00	359.81		-161.68	-1538.26	25.79	0.00	
300.00	0.00	359.81	11129.38	-161.68	-1538.26	25.79	0.00	
1400.00	0.00	359.81	11229.38	-161.68	-1538.26	25.79	0.00	
466.68	0.00	359.81	11296.06	-161.68	-1538.26	25.79	0.00	KOP
500.00	3.33	359.81	11329.36	-160.71	-1538.26	26.75	10.00	
600.00	13.33	359.81	11428.18	-146.24	-1538.31	41.13	10.00	
700.00	23.33	359.81	11522.98	-114.82	-1538.41	72.32	10.00	
1800.00							10.00	
	33.33	359.81	11610.89	-67.43	-1538.57	119.39		Walfaran / Daint of Danatustic
1841.87	37.52	359.81	11645.00	-43.16	-1538.65	143.48	10.00	Wolfcamp / Point of Penetration
1900.00	43.33	359.81	11689.24	-5.48	-1538.78	180.90	10.00	
2000.00	53.33	359.81	11755.63	69.12	-1539.02	254.99	10.00	
2100.00	63.33	359.81	11808.07	154.13	-1539.31	339.40	10.00	
2200.00	73.33	359.81	11844.94	246.94	-1539.61	431.57	10.00	
2300.00	83.33	359.81	11865.14	344.75	-1539.94	528.70	10.00	
	90.40	359.81	11869.00	415.25	-1540.17	598.70	10.00	Landing Point
737N 65	JU.4U	10.566	11005.00	713.23	1340.17	550.10		Landing 1 Offic
2370.65 2400.00	90.40	359.81	11868.80	444.60	-1540.27	627.85	0.00	



Well: MORGAN 25-13 FED COM 627H

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) 12500.00	(°) 90.40	(°) 359.81	(ft) 11868.10	(ft) 544.60	(ft) -1540.60	(ft) 727.15	(°/100ft) 0.00				
12600.00	90.40	359.81	11867.41	644.59	-1540.93	826.45	0.00				
12700.00	90.40	359.81	11866.72	744.59	-1541.26	925.75	0.00				
12800.00	90.40	359.81	11866.02	844.59	-1541.60	1025.06	0.00				
12900.00	90.40	359.81	11865.33	944.58	-1541.93	1124.36	0.00				
13000.00	90.40	359.81	11864.64	1044.58	-1542.26	1223.66	0.00				
13100.00	90.40	359.81	11863.95	1144.58	-1542.59	1322.96	0.00				
13200.00	90.40	359.81	11863.25	1244.58	-1542.92	1422.26	0.00				
13300.00 13400.00	90.40 90.40	359.81 359.81	11862.56 11861.87	1344.57 1444.57	-1543.26 -1543.59	1521.56 1620.86	0.00				
13500.00	90.40	359.81	11861.17	1544.57	-1543.92	1720.16	0.00				
13600.00	90.40	359.81	11860.48	1644.56	-1544.25	1819.47	0.00				
13700.00	90.40	359.81	11859.79	1744.56	-1544.58	1918.77	0.00				
13800.00	90.40	359.81	11859.09	1844.56	-1544.92	2018.07	0.00				
13900.00	90.40	359.81	11858.40	1944.55	-1545.25	2117.37	0.00				
14000.00	90.40	359.81	11857.71	2044.55	-1545.58	2216.67	0.00				
14100.00	90.40	359.81	11857.02	2144.55	-1545.91	2315.97	0.00				
14200.00	90.40	359.81	11856.32	2244.55	-1546.25	2415.27	0.00				
14300.00	90.40	359.81	11855.63	2344.54	-1546.58	2514.58	0.00				
14400.00 14500.00	90.40	359.81 359.81	11854.94 11854.24	2444.54	-1546.91 -1547.24	2613.88	0.00				
14600.00	90.40 90.40	359.81 359.81	11854.24 11853.55	2544.54 2644.53	-1547.24 -1547.57	2713.18 2812.48	0.00				
14700.00	90.40	359.81	11852.86	2744.53	-1547.57	2911.78	0.00				
14800.00	90.40	359.81	11852.16	2844.53	-1548.24	3011.08	0.00				
14900.00	90.40	359.81	11851.47	2944.53	-1548.57	3110.38	0.00				
15000.00	90.40	359.81	11850.78	3044.52	-1548.90	3209.68	0.00				
15100.00	90.40	359.81	11850.08	3144.52	-1549.23	3308.99	0.00				
15200.00	90.40	359.81	11849.39	3244.52	-1549.57	3408.29	0.00				
15300.00	90.40	359.81	11848.70	3344.51	-1549.90	3507.59	0.00				
15400.00	90.40	359.81	11848.01	3444.51	-1550.23	3606.89	0.00				
15500.00 15600.00	90.40 90.40	359.81 359.81	11847.31 11846.62	3544.51 3644.50	-1550.56 -1550.90	3706.19 3805.49	0.00				
15700.00	90.40	359.81	11845.93	3744.50	-1551.23	3904.79	0.00				
15800.00	90.40	359.81	11845.23	3844.50	-1551.56	4004.10	0.00				
15900.00	90.40	359.81	11844.54	3944.50	-1551.89	4103.40	0.00				
16000.00	90.40	359.81	11843.85	4044.49	-1552.22	4202.70	0.00				
16100.00	90.40	359.81	11843.15	4144.49	-1552.56	4302.00	0.00				
16200.00	90.40	359.81	11842.46	4244.49	-1552.89	4401.30	0.00				
16300.00	90.40	359.81	11841.77	4344.48	-1553.22	4500.60	0.00				
16400.00	90.40	359.81	11841.08	4444.48	-1553.55	4599.90	0.00				
16500.00	90.40	359.81	11840.38	4544.48	-1553.88	4699.21	0.00				
16600.00 16700.00	90.40 90.40	359.81 359.81	11839.69 11839.00	4644.48 4744.47	-1554.22 -1554.55	4798.51 4897.81	0.00				
16800.00	90.40	359.81	11838.30	4844.47	-1554.88	4997.11	0.00				
16900.00	90.40	359.81	11837.61	4944.47	-1555.21	5096.41	0.00				
17000.00	90.40	359.81	11836.92	5044.46	-1555.55	5195.71	0.00				
17100.00	90.40	359.81	11836.22	5144.46	-1555.88	5295.01	0.00				
17200.00	90.40	359.81	11835.53	5244.46	-1556.21	5394.31	0.00				
17300.00	90.40	359.81	11834.84	5344.45	-1556.54	5493.62	0.00				
17400.00	90.40	359.81	11834.15	5444.45	-1556.87	5592.92	0.00				
17500.00	90.40	359.81	11833.45	5544.45	-1557.21	5692.22	0.00				
17600.00 17700.00	90.40 90.40	359.81 359.81	11832.76 11832.07	5644.45 5744.44	-1557.54 -1557.87	5791.52 5890.82	0.00				
17700.00	90.40	359.81	11831.37	5844.44	-1558.20	5990.02	0.00				
17900.00	90.40	359.81	11830.68	5944.44	-1558.53	6089.42	0.00				
18000.00	90.40	359.81	11829.99	6044.43	-1558.87	6188.73	0.00				
18100.00	90.40	359.81	11829.29	6144.43	-1559.20	6288.03	0.00				
18200.00	90.40	359.81	11828.60	6244.43	-1559.53	6387.33	0.00				
18300.00	90.40	359.81	11827.91	6344.43	-1559.86	6486.63	0.00				
18400.00	90.40	359.81	11827.22	6444.42	-1560.20	6585.93	0.00				
18500.00	90.40	359.81	11826.52	6544.42	-1560.53	6685.23	0.00				
18600.00	90.40	359.81	11825.83	6644.42	-1560.86	6784.53	0.00				
18700.00 18800.00	90.40 90.40	359.81 359.81	11825.14 11824.44	6744.41 6844.41	-1561.19 -1561.52	6883.83 6983.14	0.00				
18900.00	90.40	359.81	11823.75	6944.41	-1561.86	7082.44	0.00				
19000.00	90.40	359.81	11823.06	7044.40	-1562.19	7181.74	0.00				
19100.00	90.40	359.81	11822.36	7144.40	-1562.52	7281.04	0.00				
19200.00	90.40	359.81	11821.67	7244.40	-1562.85	7380.34	0.00				
19300.00	90.40	359.81	11820.98	7344.40	-1563.18	7479.64	0.00				
19400.00	90.40	359.81	11820.28	7444.39	-1563.52	7578.94	0.00				



Well: MORGAN 25-13 FED COM 627H

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)

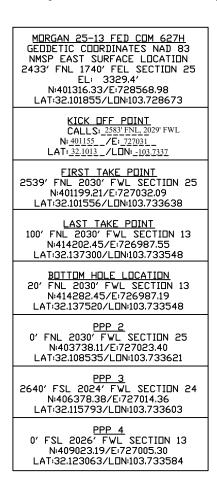
MD	INC	AZI	TVD	NS	EW	vs	DLS	C
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment
19500.00	90.40	359.81	11819.59	7544.39	-1563.85	7678.25	0.00	
19600.00	90.40	359.81	11818.90	7644.39	-1564.18	7777.55	0.00	
19700.00	90.40	359.81	11818.21	7744.38	-1564.51	7876.85	0.00	
19800.00	90.40	359.81	11817.51	7844.38	-1564.85	7976.15	0.00	
19900.00	90.40	359.81	11816.82	7944.38	-1565.18	8075.45	0.00	
20000.00	90.40	359.81	11816.13	8044.37	-1565.51	8174.75	0.00	
20100.00	90.40	359.81	11815.43	8144.37	-1565.84	8274.05	0.00	
20200.00	90.40	359.81	11814.74	8244.37	-1566.17	8373.36	0.00	
20300.00	90.40	359.81	11814.05	8344.37	-1566.51	8472.66	0.00	
20400.00	90.40	359.81	11813.35	8444.36	-1566.84	8571.96	0.00	
20500.00	90.40	359.81	11812.66	8544.36	-1567.17	8671.26	0.00	
20600.00	90.40	359.81	11811.97	8644.36	-1567.50	8770.56	0.00	
20700.00	90.40	359.81	11811.28	8744.35	-1567.83	8869.86	0.00	
20800.00	90.40	359.81	11810.58	8844.35	-1568.17	8969.16	0.00	
20900.00	90.40	359.81	11809.89	8944.35	-1568.50	9068.46	0.00	
21000.00	90.40	359.81	11809.20	9044.35	-1568.83	9167.77	0.00	
21100.00	90.40	359.81	11808.50	9144.34	-1569.16	9267.07	0.00	
21200.00	90.40	359.81	11807.81	9244.34	-1569.49	9366.37	0.00	
21300.00	90.40	359.81	11807.12	9344.34	-1569.83	9465.67	0.00	
21400.00	90.40	359.81	11806.42	9444.33	-1570.16	9564.97	0.00	
21500.00	90.40	359.81	11805.73	9544.33	-1570.49	9664.27	0.00	
21600.00	90.40	359.81	11805.04	9644.33	-1570.82	9763.57	0.00	
21700.00	90.40	359.81	11804.35	9744.32	-1571.16	9862.88	0.00	
21800.00	90.40	359.81	11803.65	9844.32	-1571.49	9962.18	0.00	
21900.00	90.40	359.81	11802.96	9944.32	-1571.82	10061.48	0.00	
22000.00 22100.00	90.40 90.40	359.81 359.81	11802.27 11801.57	10044.32 10144.31	-1572.15	10160.78 10260.08	0.00	
22200.00	90.40	359.81	11800.88	10144.31	-1572.48 -1572.82	10260.08	0.00	
22300.00	90.40	359.81	11800.38	10344.31	-1573.15	10353.58	0.00	
22400.00	90.40	359.81	11799.49	10444.30	-1573.48	10557.98	0.00	
22500.00	90.40	359.81	11798.80	10544.30	-1573.81	10657.29	0.00	
22600.00	90.40	359.81	11798.11	10644.30	-1574.14	10756.59	0.00	
22700.00	90.40	359.81	11797.41	10744.30	-1574.48	10855.89	0.00	
22800.00	90.40	359.81	11796.72	10844.29	-1574.81	10955.19	0.00	
22900.00	90.40	359.81	11796.03	10944.29	-1575.14	11054.49	0.00	
23000.00	90.40	359.81	11795.34	11044.29	-1575.47	11153.79	0.00	
23100.00	90.40	359.81	11794.64	11144.28	-1575.81	11253.09	0.00	
23200.00	90.40	359.81	11793.95	11244.28	-1576.14	11352.40	0.00	
23300.00	90.40	359.81	11793.26	11344.28	-1576.47	11451.70	0.00	
23400.00	90.40	359.81	11792.56	11444.27	-1576.80	11551.00	0.00	
23500.00	90.40	359.81	11791.87	11544.27	-1577.13	11650.30	0.00	
23600.00	90.40	359.81	11791.18	11644.27	-1577.47	11749.60	0.00	
23700.00	90.40	359.81	11790.48	11744.27	-1577.80	11848.90	0.00	
23800.00	90.40	359.81	11789.79	11844.26	-1578.13	11948.20	0.00	
23900.00	90.40	359.81	11789.10	11944.26	-1578.46	12047.51	0.00	
24000.00	90.40	359.81	11788.41	12044.26	-1578.79	12146.81	0.00	
24100.00	90.40	359.81	11787.71	12144.25	-1579.13	12246.11	0.00	
24200.00	90.40	359.81	11787.02		-1579.46	12345.41	0.00	
24300.00	90.40	359.81		12344.25	-1579.79		0.00	
24400.00	90.40	359.81			-1580.12		0.00	
24500.00	90.40	359.81 359.81			-1580.46 -1580.79		0.00	
24600.00 24700.00	90.40						0.00	
24700.00	90.40 90.40	359.81 359.81			-1581.12 -1581.45		0.00	
24841.89	90.40	359.81			-1581.59		0.00	exit
24900.00	90.40	359.81			-1581.78		0.00	CALC
24921.89	90.40	359.81			-1581.79		0.00	BHL
			52.00				2.00	

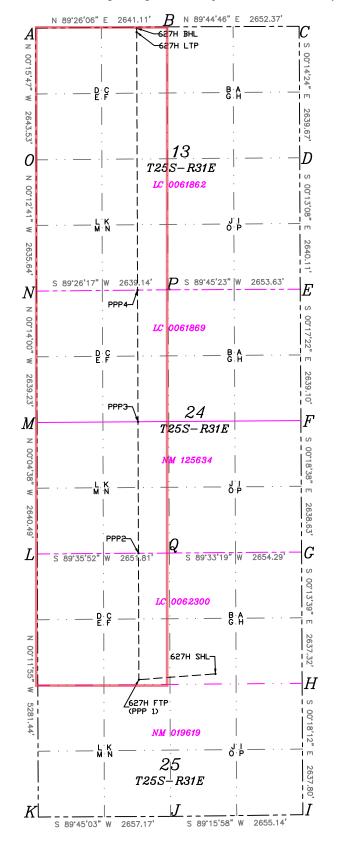
<u>C-102</u>			State of Energy, Minerals & Natura				New Mexico ll Resources Department		Revised July, 2024		
Submit Electronically			OIL CONSERVAT								
Via OCD Permitting									Submittal		
									Type:		☐ Amended Report
										☐ As Drilled	
WELL LOCATI							ON INFORMATIO	N			
API N	umber		Pool Cod			P	ool Name				
	15-55589		,	220 Nama			PURPLE SAGE; WOLFCAM			MP (GAS) Well Number	
Property Code Propert				Name	MORO	GAN	25-13 FED COM		627H		
OGRID No. 6137			Operator Name				RODUCTION COMPANY, L.P.			Ground Level 3329.4'	Elevation
			 Fee □Tribal □Federal				Mineral Owner: □State □Fee □Tr			 Tribal □Federal	
						Surfs	ace Location				
UL	Section	Township	Range	Lot	Ft. from			Latitude		Longitude	County
G	25	25-S	31-E		2433	•	1740' E	32.101	855	103.728673	EDDY
					B.	ottom	Hole Location				
UL	Section	Township	Range	Lot	Ft. from			Latitude		Longitude	County
C	13	25-S	31-E	200	20'	•	2030' W	32.137	520	103.733548	EDDY
			01 1				10000	0.0.101		1001.00010	2221
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API	Overl	apping Spacing Uni	t (Y/N)	Consolid	lation Code	
800	.00	INFILL	LL 30-015-55637								
Order	Numbers	PENDING	THE			Well	setbacks are under Common Ownership: \[\subseteq Yes \subseteq No \]				
		TENDING	NOL								
TIT	G 4 :	m	D	T - 4			Point (KOP)	7 - 4:4 3 -		T: 4 3 -	C
UL	Section	Township	Range	Lot	Ft. from	m N/	S Ft. from E/W	Latitude		Longitude	County
F	25	25-S	31-E		2583'		2029' W	32.1013		-103.7337	EDDY
							ke Point (FTP)				
UL	Section	Township	Range	Lot	Ft. from	•		Latitude		Longitude	County
F	25	25-S	31-E		2539' N		2030' W	32.101	996	103.733638	EDDY
				1			ke Point (LTP)				
UL	Section	Township	Range	Lot	Ft. from	•		Latitude		Longitude	County
С	13	25-S	31-E		100'	N	2030' W	32.137	300	103.733548	EDDY
Spacing					ing (Unit Type Horizontal Vertical Ground Floor Elevation:			vation:		
1	TOR CERTI				1		SURVEYOR CERTIFICATIONS				
		e information con belief, and, if the					I hereby certify that the well location shown on this plat was plotted from field notes				
		ns a working inte bottom hole loca					of actual surveys made by me or under supervision, and that the same is true and correct to the best of my belief.				
location	pursuant to a c	ontract with an o	owner of a wor	king interes	t or unleased		correct to the best of my belief.				
	nterest, or to a re entered by the	ı voluntary pooli he division.	ng agreement o	or a compuls	sory pooling o	order	MEX O				
If this well is a horizontal well, I further certify that this organization has received the				ad tha	77, 60			(0)			
consent o	of at least one	lessee or owner	of a working in	terest or unl	leased mineral	1	((23261)				
interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the						PR HOPE	11/5/				
division.								100 mg			
Amy A. Brown 01/08/2025						Signature and Seal of Professional Surveyor ONAL					
Signature Date						orginature and bear	or rrore:	ssivilal i	Surveyor /ONAL		
Amy A. Brown											
Printed Name					C	Certificate Number	Date of	Survey			
AMY.BROWN@DVN.COM Email Address						23261	10/20	24			
								10/20			

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.







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

Sundry Print Reports
01/22/2025

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

SWNE / 32.101855 / -103.728673

Well Number: 627H Type of Well: OIL WELL Allottee or Tribe Name:

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

US Well Number: 3001555589 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Notice of Intent

Sundry ID: 2831327

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 01/13/2025 Time Sundry Submitted: 08:49

Date proposed operation will begin: 01/14/2025

Procedure Description: Devon Energy Production Co., L.P. (Devon) respectfully requests to move BHL on the subject well. We also request a change 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, 2030 FWL, 13-25S-31E

NOI Attachments

Procedure Description

5.5_20lb_P110HP_TALON_RD_20250113084618.pdf

7.625_29.7lb_P110_HP_Talon_SFC_20250113084605.pdf

9.625_40lb_J55_SeAH_20250113084535.pdf

MORGAN_25_13_FED_COM_627H__20250113083957.pdf

MORGAN_25_13_FED_COM_627H_Directional_Plan_11_21_24_20250113083935.pdf

WA022390603_MORGAN_25_13_FED_COM_627H_WL_R1_SIGNED_20250113083918.pdf

eceived by OCD: 1/23/2025 11:13:08 AM Well Name: MORGAN 25-13 FED COM Well Location: T25S / R31E / SEC 25 / County or Parish/State: Page 23, of

Type of Well: OIL WELL

SWNE / 32.101855 / -103.728673

Allottee or Tribe Name:

Unit or CA Number:

Unit or CA Name:

US Well Number: 3001555589 Operator: DEVON ENERGY

PRODUCTION COMPANY LP

Operator

Lease Number: NMLC062300

Well Number: 627H

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

Signed on: JAN 13, 2025 08:46 AM **Operator Electronic Signature: AMY BROWN**

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: Devon Energy Production Company LP

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

COUNTY: Eddy County, New Mexico

WELL NAME & NO.: Morgan 25-13 Fed Com 627H

ATS/API ID: 3001555589

APD ID: 10400097847

Sundry ID: 2831327

 \mathbf{COA}

Primary Design:

	·		
H2S	No 🔽		
Potash	None 🔻	None	
Cave/Karst Potential	Medium ▼		
Cave/Karst Potential	☐ Critical		
Variance	None	Flex Hose	C Other
Wellhead	Conventional and Multibov	vI 🔻	
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	▼ Break 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 381 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 **8** 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 482 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. Annular which shall be tested to 5000 (5M) psi.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 8-5/8 inch intermediate casing shoe shall be 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 3:

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.

BOPE Break Testing Variance (Approved)

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR part 3170 Subpart 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

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) 1/22/2025

Form 3160-5 (June 2019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

BURE	EAU OF LAND MANAGEMENT	5. Lease Serial No.		
Do not use this fo	OTICES AND REPORTS ON Worm for proposals to drill or to Use Form 3160-3 (APD) for suc	6. If Indian, Allottee or Tribe	Name	
	TRIPLICATE - Other instructions on pag	e 2	7. If Unit of CA/Agreement, 1	Name and/or No.
1. Type of Well Gas W	[ell Other	8. Well Name and No.		
2. Name of Operator		9. API Well No.		
3a. Address	3b. Phone No.	(include area code)	10. Field and Pool or Explora	tory Area
4. Location of Well (Footage, Sec., T.,R	.,M., or Survey Description)		11. Country or Parish, State	
12. CHEC	CK THE APPROPRIATE BOX(ES) TO INI	DICATE NATURE (OF NOTICE, REPORT OR OT	HER DATA
TYPE OF SUBMISSION		TYPI	E OF ACTION	
Notice of Intent	Acidize Deep Alter Casing Hydr	en aulic Fracturing	Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity
Subsequent Report	Casing Repair New	Construction	Recomplete	Other
Final Abandonment Notice	Change Plans Plug Convert to Injection Plug	and Abandon	Temporarily Abandon Water Disposal	
is ready for final inspection.)				
14. I hereby certify that the foregoing is	true and correct. Name (Printed/Typed)	Tid.		
Signature		Title Date		
Approved by		Title		Date
	ned. Approval of this notice does not warran quitable title to those rights in the subject leduct operations thereon.			
Title 18 U.S.C Section 1001 and Title 43	U.S.C Section 1212, make it a crime for ar	ny person knowingly	and willfully to make to any d	epartment or agency of the United States

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

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

(Form 3160-5, page 2)

Additional Information

Location of Well

0. SHL: SWNE / 2433 FNL / 1740 FEL / TWSP: 25S / RANGE: 31E / SECTION: 25 / LAT: 32.101855 / LONG: -103.728673 (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: 11721 feet) PPP: SWSE / 146 FSL / 2307 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.123451 / LONG: -103.7304855 (TVD: 11817 feet, MD: 19700 feet) PPP: SWNE / 2454 FNL / 2308 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1163042 / LONG: -103.7304944 (TVD: 11835 feet, MD: 17100 feet) PPP: SWSE / 125 FSL / 2311 FEL / TWSP: 25S / RANGE: 31E / SECTION: 24 / LAT: 32.1088825 / LONG: -103.7305035 (TVD: 11854 feet, MD: 14400 feet) BHL: NWNE / 20 FNL / 2310 FEL / TWSP: 25S / RANGE: 31E / SECTION: 13 / LAT: 32.137526 / LONG: -103.730468 (TVD: 11782 feet, MD: 24821 feet)

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		
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	%	
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	
Maximum Uniaxial Bend Rating		104.2	deg/100 ft	
MAKE-UP DATA	Pipe	USS-TALON HTQ™ RD		
Make-Up Loss		5.58	in.	
Minimum Make-Up Torque		18,400	ft-lb	
Maximum Make-Up Torque		21,400	ft-lb	
Maximum Operating Torque		44,400	ft-lb	

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.

Legal Notice

All material contained in this publication is for general information only. This material should not therefore be used or relied upon for any specific application without independent competent professional examination and verification of accuracy, suitability and applicability. Anyone making use of this material does so at their own risk and assumes any and all liability resulting from such use. U. S. Steel disclaims any and all expressed or implied warranties of fitness for any general or particular application.

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]

[4]

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

5/15/2024 6:31:14 PM

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

# **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).

33,000

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 Make-Up Torque

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.).
- 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

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.
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.

# MORGAN 25-13 FED COM 627H

# 1. Geologic Formations

TVD of target	11783	Pilot hole depth	N/A
MD at TD:	24922	Deepest expected fresh water	

# Basin

Dasiii	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		
Wolfcamp	11645		

^{*}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	11367	0	11367
6 3/4	5 1/2	20	P110HP	TALON RD	0	24922	0	11783

[•]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	TOC	Wt. ppg	Yld (ft3/sack)	Slurry Description
Surface	512	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	381	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	416	6867	13.2	1.44	Tail: Class H / C + additives
Production	62	9467	9	3.27	Lead: Class H /C + additives
Froduction	858	11467	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	11367	0	11367
7 7/8	5 1/2	20	P110	DWC / C-IS+	0	24922	0	11783

[•]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.	Yld (ft3/sack)	Slurry Description
Surface	586	Surf	13.2	1.44	Lead: Class C Cement + additives
Int 1	482	Surf	13.0	2.3	2nd State: Bradenhead Squeeze - Lead: Class C Cement + additives
III I	522	6867	13.2	1.44	Tail: Class H / C + additives
Production	117	9467	9	3.27	Lead: Class H /C + additives
Froduction	1781	11467	13.2	1.44	Tail: Class H / C + additives

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	T	ype	✓	Tested to:
			Anı	nular	X	50% of rated working pressure
Int 1	13-5/8"	5M	Bline	d Ram	X	
IIIt I	13-3/6	3101	Pipe	Ram		5M
			Doub	le Ram	X	J1V1
			Other*			
			Δnnul	ar (5M)	X	50% of rated working
				· '	74	pressure
Production	13-5/8"	5M	Bline	d Ram	X	
Troduction	13 3/0	3141		Ram		5M
			Doub	le Ram	X	3141
			Other*			
			Annul	ar (5M)		
			Bline	d Ram		
			Pipe	Ram		
			Doub	le 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	run a 5 M ar	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

	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	6433
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.

#### MORGAN 25-13 FED COM 627H

# 8. Other facets of operation

Is this a walking operation? Potentially

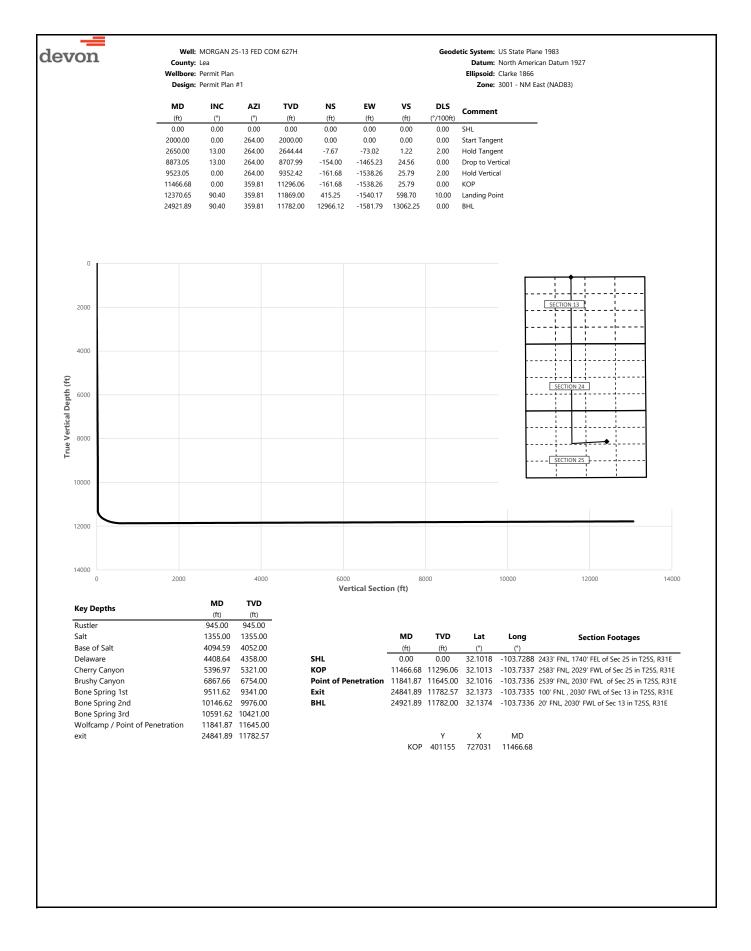
- 1 If operator elects, drilling rig will batch drill the surface holes and run/cement surface casing; walking the rig to next wells on the pad.
- The drilling rig will then batch drill the intermediate sections and run/cement intermediate casing; the wellbore will be isolated with a blind flange and 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





 Well: MORGAN 25-13 FED COM 627H
 Geodetic System: US State Plane 1983

 County: Lea
 Datum: North American Datum 1927

 Wellbore: Permit Plan
 Ellipsoid: Clarke 1866

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

	Design:	Permit Plan	#1					<b>Zone:</b> 3001 - NM East (NAD83)
MD	INC	AZI	TVD	NS	EW	vs	DLS	Command
(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	264.00	100.00	0.00	0.00	0.00	0.00	
200.00	0.00	264.00	200.00	0.00	0.00	0.00	0.00	
300.00 400.00	0.00	264.00 264.00	300.00 400.00	0.00	0.00	0.00	0.00	
500.00	0.00	264.00	500.00	0.00	0.00	0.00	0.00	
600.00	0.00	264.00	600.00	0.00	0.00	0.00	0.00	
700.00	0.00	264.00	700.00	0.00	0.00	0.00	0.00	
800.00	0.00	264.00	800.00	0.00	0.00	0.00	0.00	
900.00	0.00	264.00	900.00	0.00	0.00	0.00	0.00	
945.00	0.00	264.00	945.00	0.00	0.00	0.00	0.00	Rustler
1000.00	0.00	264.00	1000.00	0.00	0.00	0.00	0.00	
1100.00	0.00	264.00	1100.00	0.00	0.00	0.00	0.00	
1200.00 1300.00	0.00	264.00 264.00	1200.00 1300.00	0.00	0.00	0.00	0.00	
1355.00	0.00	264.00	1355.00	0.00	0.00	0.00	0.00	Salt
1400.00	0.00	264.00	1400.00	0.00	0.00	0.00	0.00	Sait
1500.00	0.00	264.00	1500.00	0.00	0.00	0.00	0.00	
1600.00	0.00	264.00	1600.00	0.00	0.00	0.00	0.00	
1700.00	0.00	264.00	1700.00	0.00	0.00	0.00	0.00	
1800.00	0.00	264.00	1800.00	0.00	0.00	0.00	0.00	
1900.00	0.00	264.00	1900.00	0.00	0.00	0.00	0.00	
2000.00	0.00	264.00	2000.00	0.00	0.00	0.00	0.00	Start Tangent
2100.00	2.00	264.00	2099.98	-0.18	-1.74	0.03	2.00	
2200.00 2300.00	4.00 6.00	264.00 264.00	2199.84 2299.45	-0.73 -1.64	-6.94 -15.61	0.12 0.26	2.00 2.00	
2400.00	8.00	264.00	2398.70	-1.04	-13.01	0.46	2.00	
2500.00	10.00	264.00	2497.47	-4.55	-43.28	0.73	2.00	
2600.00	12.00	264.00	2595.62	-6.54	-62.26	1.04	2.00	
2650.00	13.00	264.00	2644.44	-7.67	-73.02	1.22	2.00	Hold Tangent
2700.00	13.00	264.00	2693.16	-8.85	-84.21	1.41	0.00	
2800.00	13.00	264.00	2790.59	-11.20	-106.58	1.79	0.00	
2900.00	13.00	264.00	2888.03	-13.55	-128.95	2.16	0.00	
3000.00	13.00	264.00	2985.47	-15.91	-151.32	2.54	0.00	
3100.00 3200.00	13.00	264.00 264.00	3082.90	-18.26 -20.61	-173.70 196.07	2.91 3.29	0.00	
3300.00	13.00 13.00	264.00	3180.34 3277.78	-20.61	-196.07 -218.44	3.66	0.00	
3400.00	13.00	264.00	3375.21	-25.31	-240.81	4.04	0.00	
3500.00	13.00	264.00	3472.65	-27.66	-263.18	4.41	0.00	
3600.00	13.00	264.00	3570.09	-30.01	-285.55	4.79	0.00	
3700.00	13.00	264.00	3667.53	-32.37	-307.93	5.16	0.00	
3800.00	13.00	264.00	3764.96	-34.72	-330.30	5.54	0.00	
3900.00	13.00	264.00	3862.40	-37.07	-352.67	5.91	0.00	
4000.00	13.00	264.00	3959.84	-39.42	-375.04	6.29	0.00	D (C)
4094.59	13.00	264.00	4052.00	-41.64 41.77	-396.20	6.64	0.00	Base of Salt
4100.00 4200.00	13.00 13.00	264.00 264.00	4057.27 4154.71	-41.77 -44.12	-397.41 -419.79	6.66 7.04	0.00	
4300.00	13.00	264.00	4252.15	-46.47	-442.16	7.41	0.00	
4400.00	13.00	264.00	4349.59	-48.83	-464.53	7.79	0.00	
4408.64	13.00	264.00	4358.00	-49.03	-466.46	7.82	0.00	Delaware
4500.00	13.00	264.00	4447.02	-51.18	-486.90	8.16	0.00	
4600.00	13.00	264.00	4544.46	-53.53	-509.27	8.54	0.00	
4700.00	13.00	264.00	4641.90	-55.88	-531.64	8.91	0.00	
4800.00	13.00	264.00	4739.33	-58.23	-554.02	9.29	0.00	
4900.00 5000.00	13.00	264.00 264.00	4836.77	-60.58 -62.93	-576.39 598.76	9.66 10.04	0.00	
5100.00	13.00 13.00	264.00 264.00	4934.21 5031.64	-62.93 -65.29	-598.76 -621.13	10.04	0.00	
5200.00	13.00	264.00	5129.08	-67.64	-643.50	10.41	0.00	
5300.00	13.00	264.00	5226.52	-69.99	-665.88	11.16	0.00	
5396.97	13.00	264.00	5321.00	-72.27	-687.57	11.53	0.00	Cherry Canyon
5400.00	13.00	264.00	5323.96	-72.34	-688.25	11.54	0.00	
5500.00	13.00	264.00	5421.39	-74.69	-710.62	11.91	0.00	
5600.00	13.00	264.00	5518.83	-77.04	-732.99	12.29	0.00	
5700.00	13.00	264.00	5616.27	-79.39	-755.36	12.66	0.00	
5800.00	13.00	264.00	5713.70 5811.14	-81.75 84.10	-777.74 900.11	13.04	0.00	
5900.00 6000.00	13.00 13.00	264.00 264.00	5811.14 5908.58	-84.10 -86.45	-800.11 -822.48	13.41 13.79	0.00	
6100.00	13.00	264.00	6006.01	-88.80	-822.46 -844.85	14.16	0.00	
6200.00	13.00	264.00	6103.45	-91.15	-867.22	14.54	0.00	
6300.00	13.00	264.00	6200.89	-93.50	-889.59	14.91	0.00	



Well: MORGAN 25-13 FED COM 627H

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	n #1					<b>Zone</b> : 3001 - NM East (NAD83)
MD (ft)	INC (°)	AZI (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	<b>DLS</b> (°/100ft)	Comment
6400.00	13.00	264.00	6298.33	-95.85	-911.97	15.29	0.00	
6500.00	13.00	264.00	6395.76	-98.21	-934.34	15.66	0.00	
6600.00	13.00	264.00	6493.20	-100.56	-956.71	16.04	0.00	
6700.00	13.00	264.00	6590.64	-102.91	-979.08 1001.4F	16.41	0.00	
6800.00 6867.66	13.00 13.00	264.00 264.00	6688.07 6754.00	-105.26 -106.85	-1001.45 -1016.59	16.79 17.04	0.00	Brushy Canyon
6900.00	13.00	264.00	6785.51	-100.63	-1010.33	17.16	0.00	biusity Carryon
7000.00	13.00	264.00	6882.95	-109.96	-1046.20	17.54	0.00	
7100.00	13.00	264.00	6980.38	-112.32	-1068.57	17.91	0.00	
7200.00	13.00	264.00	7077.82	-114.67	-1090.94	18.29	0.00	
7300.00	13.00	264.00	7175.26	-117.02	-1113.31	18.66	0.00	
7400.00	13.00	264.00	7272.70	-119.37	-1135.68	19.04	0.00	
7500.00 7600.00	13.00 13.00	264.00 264.00	7370.13 7467.57	-121.72 -124.07	-1158.06 -1180.43	19.41 19.79	0.00	
7700.00	13.00	264.00	7565.01	-124.07	-1202.80	20.16	0.00	
7800.00	13.00	264.00	7662.44	-128.78	-1225.17	20.54	0.00	
7900.00	13.00	264.00	7759.88	-131.13	-1247.54	20.91	0.00	
8000.00	13.00	264.00	7857.32	-133.48	-1269.92	21.29	0.00	
8100.00	13.00	264.00	7954.75	-135.83	-1292.29	21.66	0.00	
8200.00	13.00	264.00	8052.19	-138.18	-1314.66	22.04	0.00	
8300.00	13.00	264.00	8149.63	-140.53	-1337.03	22.41	0.00	
8400.00 8500.00	13.00 13.00	264.00 264.00	8247.07 8344.50	-142.88 -145.24	-1359.40 -1381.78	22.79 23.16	0.00	
8600.00	13.00	264.00	8441.94	-147.59	-1404.15	23.54	0.00	
8700.00	13.00	264.00	8539.38	-149.94	-1426.52	23.91	0.00	
8800.00	13.00	264.00	8636.81	-152.29	-1448.89	24.29	0.00	
8873.05	13.00	264.00	8707.99	-154.00	-1465.23	24.56	0.00	Drop to Vertical
8900.00	12.46	264.00	8734.28	-154.62	-1471.14	24.67	2.00	
9000.00	10.46	264.00	8832.28	-156.70	-1490.90	25.00	2.00	
9100.00 9200.00	8.46 6.46	264.00 264.00	8930.91 9030.06	-158.42 -159.78	-1507.25 -1520.16	25.27 25.49	2.00 2.00	
9300.00	4.46	264.00	9129.60	-160.77	-1520.10	25.65	2.00	
9400.00	2.46	264.00	9229.42	-161.40	-1535.63	25.75	2.00	
9500.00	0.46	264.00	9329.38	-161.67	-1538.16	25.79	2.00	
9511.62	0.23	264.00	9341.00	-161.68	-1538.23	25.79	2.00	Bone Spring 1st
9523.05	0.00	264.00	9352.42	-161.68	-1538.26	25.79	2.00	Hold Vertical
9600.00	0.00	359.81	9429.38	-161.68	-1538.26	25.79	0.00	
9700.00 9800.00	0.00	359.81 359.81	9529.38 9629.38	-161.68 -161.68	-1538.26 -1538.26	25.79 25.79	0.00	
9900.00	0.00	359.81	9729.38	-161.68	-1538.26	25.79	0.00	
10000.00	0.00	359.81	9829.38	-161.68	-1538.26	25.79	0.00	
10100.00	0.00	359.81	9929.38	-161.68	-1538.26	25.79	0.00	
10146.62	0.00	359.81	9976.00	-161.68	-1538.26	25.79	0.00	Bone Spring 2nd
10200.00	0.00	359.81	10029.38	-161.68	-1538.26	25.79	0.00	
10300.00	0.00	359.81	10129.38	-161.68	-1538.26	25.79	0.00	
10400.00 10500.00	0.00	359.81 359.81	10229.38 10329.38	-161.68 -161.68	-1538.26 -1538.26	25.79 25.79	0.00	
10500.00	0.00	359.81	10323.30	-161.68	-1538.26	25.79	0.00	Bone Spring 3rd
10600.00	0.00	359.81	10429.38	-161.68	-1538.26	25.79	0.00	_P - <del>y</del>
10700.00	0.00	359.81	10529.38	-161.68	-1538.26	25.79	0.00	
10800.00	0.00	359.81	10629.38	-161.68	-1538.26	25.79	0.00	
10900.00	0.00	359.81	10729.38	-161.68	-1538.26	25.79	0.00	
11000.00	0.00	359.81	10829.38	-161.68	-1538.26	25.79	0.00	
11100.00 11200.00	0.00	359.81 359.81	10929.38 11029.38	-161.68 -161.68	-1538.26 -1538.26	25.79 25.79	0.00	
11300.00	0.00	359.81	11129.38	-161.68	-1538.26	25.79	0.00	
11400.00	0.00	359.81	11229.38	-161.68	-1538.26	25.79	0.00	
11466.68	0.00	359.81	11296.06	-161.68	-1538.26	25.79	0.00	KOP
11500.00	3.33	359.81	11329.36	-160.71	-1538.26	26.75	10.00	
11600.00	13.33	359.81	11428.18	-146.24	-1538.31	41.13	10.00	
11700.00	23.33	359.81	11522.98	-114.82	-1538.41	72.32	10.00	
11800.00 11841.87	33.33 37.52	359.81 359.81	11610.89 11645.00	-67.43 -43.16	-1538.57 -1538.65	119.39 143.48	10.00 10.00	Wolfcamp / Point of Penetration
11900.00	43.33	359.81	11689.24	-43.16 -5.48	-1538.78	180.90	10.00	moneamp / Fourt of Fenetiation
12000.00	53.33	359.81	11755.63	69.12	-1539.02	254.99	10.00	
12100.00	63.33	359.81	11808.07	154.13	-1539.31	339.40	10.00	
12200.00	73.33	359.81	11844.94	246.94	-1539.61	431.57	10.00	
12300.00	83.33	359.81	11865.14	344.75	-1539.94	528.70	10.00	
12370.65	90.40	359.81	11869.00	415.25	-1540.17 1540.27	598.70	10.00	Landing Point
12400.00	90.40	359.81	11868.80	444.60	-1540.27	627.85	0.00	



Well: MORGAN 25-13 FED COM 627H

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)

March   Marc		Design:	Permit Plan	1#1					Zone: 3001 - NM East (NAD83)
	MD	INC	Δ71	TVD	NS	FW	vs	DIS	
1200.00									Comment
120000   90.40   99.81   1867.41   64.59   -15.093   826.45   0.00									
1200.00   90.4   39981   1866.72   744.9   -154.126   925.75   0.00   1200.00   90.4   39981   1865.33   944.58   -154.192   1124.36   0.00   1300.00   90.4   39981   1865.33   944.58   -154.99   1212.36   0.00   1300.00   90.4   39981   1863.35   144.58   -154.29   122.26   0.00   1300.00   90.4   39981   1862.35   144.58   154.29   142.25   0.00   1300.00   90.4   39981   1862.35   144.57   -154.39   120.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00									
1200.00   90.4									
1300.00   90.4   398.1   1864.64   1044.88   154.26   154.29   122.36   0.00   1300.00   90.4   398.1   1862.35   124.48   154.29   31.22   0.00   1300.00   90.4   398.1   1862.35   124.48   154.29   31.22   0.00   1300.00   90.4   398.1   1861.87   144.457   154.39   162.08   0.00   1300.00   90.4   398.1   1861.87   144.457   154.39   162.08   0.00   1300.00   90.4   398.1   1860.48   164.45   154.42   1819.47   0.00   1300.00   90.4   398.1   1869.09   184.45   154.42   1819.47   0.00   1300.00   90.4   398.1   1863.09   184.45   154.42   1819.47   0.00   1300.00   90.4   398.1   1863.09   184.45   154.42   1819.47   0.00   1300.00   90.4   398.1   1865.22   244.55   154.52   217.37   0.00   1400.00   90.4   398.1   1857.71   204.55   154.52   217.37   0.00   1400.00   90.4   398.1   1857.71   204.55   154.52   217.37   0.00   1400.00   90.4   398.1   1856.32   244.55   154.62   245.45   154.62   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69   245.45   145.69	12800.00		359.81		844.59		1025.06		
1300.00   94.0   359.81   1863.95   1445.8   -1842.95   1422.56   0.00	12900.00	90.40	359.81	11865.33	944.58	-1541.93	1124.36	0.00	
13200.00 94.0 1598.1 1168.125 1244.58 -1542.92 152.56 0.00 13300.00 94.0 1598.1 1168.187 1444.57 -1543.92 152.56 0.00 13300.00 94.0 1598.1 1168.048 1444.57 -1543.92 152.06 0.00 13300.00 94.0 1598.1 1168.048 1444.57 -1543.92 1720.16 0.00 13300.00 94.0 1598.1 1168.048 1444.57 -1543.92 1720.16 0.00 13300.00 94.0 1598.1 1168.049 1445.57 1545.92 171.77 0.00 13300.00 94.0 1598.1 1168.049 1445.57 1545.92 171.77 0.00 13400.00 94.0 1598.1 1168.049 1445.57 1545.92 171.77 0.00 1400.00 94.0 1598.1 1165.02 2144.55 1545.92 171.77 0.00 1420.00 94.0 1598.1 1165.02 2144.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.02 2144.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.02 2144.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.02 2144.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.02 2144.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.22 2544.55 1545.92 171.57 0.00 1420.00 94.0 1598.1 1165.22 2544.55 1545.92 171.78 0.00 1420.00 94.0 1598.1 1165.22 2544.55 1545.92 0.00 1420.00 94.0 1598.1 1165.24 2544.54 1545.91 271.78 0.00 1420.00 94.0 1598.1 1165.25 2544.53 1547.22 271.18 0.00 1420.00 94.0 1598.1 1165.26 2744.51 1547.22 271.18 0.00 1420.00 94.0 1598.1 1165.16 2344.51 1547.22 271.18 0.00 1420.00 94.0 1598.1 1165.16 2344.51 1547.22 271.18 0.00 1420.00 94.0 1598.1 1165.16 2344.51 1548.91 231.03 0.00 1500.00 94.0 1598.1 1165.16 2344.51 1548.91 231.03 0.00 1500.00 94.0 1598.1 1168.17 2344.51 1548.91 230.00 190.00 1500.00 94.0 1598.1 1168.17 2344.51 1548.91 230.00 190.00 1500.00 94.0 1598.1 1168.17 2344.51 1548.91 230.00 1500.00 94.0 1598.1 1168.18 23 244.52 1549.23 230.00 190.00 1500.00 94.0 1598.1 1168.18 23 244.52 1549.23 230.00 190.00 1500.00 94.0 1598.1 1168.62 2344.51 1550.25 250.00 1500.00 94.0 1598.1 1168.00 144.51 1550.25 250.00 1500.00 94.0 1598.1 1168.00 144.51 1550.25 250.00 1500.00 94.0 1598.1 1168.00 144.51 1550.25 250.00 1500.00 94.0 1598.1 1168.00 144.51 1550.25 250.00 1500.00 94.0 1598.1 1168.00 144.41 1555.85 250.00 1500.00 94.0 1598.1 1168.20 144.41 1555.80 1550.90 0.00 1500.00 94.0 1598.1 1168.20 144.41 1555.80	13000.00	90.40	359.81	11864.64	1044.58	-1542.26	1223.66	0.00	
1340000   90.40   359.81   11862.56   1344.57   -1543.52   1521.56   0.00	13100.00	90.40	359.81	11863.95	1144.58	-1542.59	1322.96	0.00	
1340.00   90.40   359.81   11861.87   444.57   -154.59   1620.86   1830.00   90.40   359.81   11860.48   644.56   -1544.25   1819.47   000   1370.00   90.40   359.81   11860.48   164.56   -1544.25   1819.47   000   1370.00   90.40   359.81   11859.00   1844.56   -1544.52   2018.07   000   1370.00   90.40   359.81   11859.00   1844.56   -1544.52   2018.07   000   1400.00   90.40   359.81   11857.71   2044.55   -1545.92   2117.37   000   1400.00   90.40   359.81   11857.72   244.55   -1545.92   215.57   000   1400.00   90.40   359.81   1185.62   2244.55   -1545.92   215.57   000   1400.00   90.40   359.81   1185.62   2244.55   -1545.92   215.57   000   1400.00   90.40   359.81   1185.62   2244.55   -1545.92   217.37   000   1400.00   90.40   359.81   1185.42   2544.54   -1546.92   245.54   000   1400.00   90.40   359.81   1185.25   2644.53   -1547.92   271.38   000   1400.00   90.40   359.81   1185.25   2644.53   -1547.92   271.38   000   1400.00   90.40   359.81   1185.26   2244.55   -1548.92   3010.80   000   1400.00   90.40   359.81   1185.26   2244.55   -1548.92   3010.80   000   1400.00   90.40   359.81   1185.00   244.53   -1548.92   3010.80   000   1400.00   90.40   359.81   1185.00   244.53   -1548.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   344.52   -1549.92   3010.80   000   1500.00   90.40   359.81   1186.00   346.45   -1559.90   300.00   1500.00   90.40   359.81   1186.00   344.45   -1559.90   300.00   1500.00   90.40   359.81   1186.00   344.45   -1559.90   300.00   1500.00   90.40   359.81   1186.00   344.45   -1559.80   3400.00   1500.00   90.40   359.8	13200.00	90.40	359.81	11863.25	1244.58	-1542.92	1422.26	0.00	
13500.00   90.40   359.81   1861.17   1544.57   -1543.92   1720.16   0.00	13300.00	90.40	359.81	11862.56	1344.57	-1543.26	1521.56	0.00	
1360,000   90,40   359.81   1860,04   1644.56   -1544.58   1919.77   0,00   1390,000   90,40   359.81   1885.97   1744.56   -1544.58   1919.77   0,00   1390,000   90,40   359.81   1885.97   1744.56   -1544.58   1747.37   0,00   1400,000   90,40   359.81   1885.70   2144.55   -1545.25   215.57   0,00   1400,000   90,40   359.81   1885.62   2244.55   -1545.25   215.57   0,00   1400,000   90,40   359.81   1885.62   2244.55   -1545.25   215.57   0,00   1400,000   90,40   359.81   1885.62   2244.55   -1545.25   215.57   0,00   1400,000   90,40   359.81   1885.62   2244.55   -1545.25   215.77   0,00   1400,000   90,40   359.81   1885.26   2745.35   -1545.91   217.38   0,00   1400,000   90,40   359.81   1885.26   2745.35   -1547.91   217.38   0,00   1400,000   90,40   359.81   1885.26   2745.35   -1545.91   217.38   0,00   1400,000   90,40   359.81   1885.07   2844.53   -1547.91   217.38   0,00   1400,000   90,40   359.81   1885.07   2844.53   -1548.75   217.38   0,00   1500,000   90,40   359.81   1885.07   2844.53   -1548.75   217.38   0,00   1500,000   90,40   359.81   1885.07   2044.52   -1549.92   309.88   0,00   1500,000   90,40   359.81   1885.07   2044.52   -1549.92   309.88   0,00   1500,000   90,40   359.81   1885.07   2044.52   -1549.92   309.89   0,00   1500,000   90,40   359.81   1884.93   3444.52   -1549.75   300.00   90,40   359.81   1884.93   3444.52   -1549.75   300.00   90,40   359.81   1884.93   3444.52   -1549.75   300.00   90,40   359.81   1884.93   3444.55   -1559.65   300.00   90,40   359.81   1884.63   3444.55   -1559.65   300.00   90,40   359.81   1884.53   3444.55   -1559.65   300.00   90,40   359.81   1884.53   3444.55   -1559.65   300.00   90,40   359.81   1884.53   3444.55   -1559.65   300.00   90,40   359.81   1884.53   3444.55   -1559.65   300.00   90,40   359.81   1884.53   3444.55   -1559.65   300.00   90,40   359.81   1885.07   3444.45   -1559.25   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   349.85   34	13400.00	90.40	359.81	11861.87	1444.57	-1543.59	1620.86	0.00	
1370000   90.40   35981   1859.09   1344.56   -1544.92   1010.07   0.00     1390000   90.40   35981   1859.09   1344.55   -1545.92   17.37   0.00     1400000   90.40   35981   1857.71   2044.55   -1545.92   215.97   0.00     1400000   90.40   35981   1857.02   2144.55   -1545.92   215.97   0.00     1400000   90.40   35981   1855.62   2244.54   -1545.85   2545.84   0.00     1400000   90.40   35981   1855.62   2244.54   -1545.85   2545.84   0.00     1400000   90.40   35981   1852.62   2344.54   -1545.85   2545.84   0.00     1400000   90.40   35981   1852.62   2344.54   -1547.82   2713.18   0.00     1400000   90.40   35981   1852.62   2344.54   -1547.82   2713.18   0.00     1400000   90.40   35981   1852.62   2344.53   -1547.91   2911.78   0.00     1400000   90.40   35981   1852.62   2344.53   -1547.91   2911.78   0.00     1400000   90.40   35981   1852.62   2344.53   -1547.91   2911.78   0.00     1400000   90.40   35981   1850.08   3044.52   -1548.90   3050.00   0.00     1500000   90.40   35981   1850.08   3044.52   -1548.90   3050.99   0.00     1500000   90.40   35981   1880.08   3444.52   -1549.53   3050.99   0.00     1500000   90.40   35981   1884.01   3444.51   -1550.85   3050.99   0.00     1500000   90.40   35981   1884.01   3444.51   -1550.85   3050.99   0.00     1500000   90.40   35981   1848.01   3444.51   -1550.85   3050.99   0.00     1500000   90.40   35981   1848.03   3444.54   -1550.85   3050.99   0.00     1500000   90.40   35981   1848.03   3444.54   -1550.85   3050.99   0.00     1500000   90.40   35981   1844.53   3444.45   -1550.85   3050.99   0.00     1500000   90.40   35981   1844.53   3444.45   -1550.85   3050.99   0.00     1500000   90.40   35981   1844.53   3444.45   -1550.85   3050.99   0.00     1600000   90.40   35981   1842.64   3444.45   -1550.85   3050.99   0.00     1600000   90.40   35981   1883.05   3644.44   -1551.85   3690.00   0.00     1700000   90.40   35981   1883.05   3644.45   -1550.85   3690.00   0.00     1700000   90.40   35981   1883.05   3644.45   -1558.85   3690.00   0.00	13500.00	90.40	359.81	11861.17	1544.57		1720.16	0.00	
1380,000   90.40   359.81   1885,00   1344.56   -1544.52   211.77   0.00   1400,000   90.40   359.81   1885.70   2144.55   -1545.52   215.97   0.00   1400,000   90.40   359.81   1885.70   2144.55   -1545.52   215.97   0.00   1400,000   90.40   359.81   1885.62   2244.55   -1545.72   215.85   0.00   1400,000   90.40   359.81   1885.62   2244.55   -1545.72   215.85   0.00   1400,000   90.40   359.81   1885.42   2444.54   -1546.91   215.85   214.85   0.00   1400,000   90.40   359.81   1885.42   2444.54   -1547.24   2713.18   0.00   1400,000   90.40   359.81   1885.26   2244.55   -1546.91   215.85   214.85   0.00   1400,000   90.40   359.81   1885.26   2244.55   -1546.91   215.85   215.85   0.00   1400,000   90.40   359.81   1885.26   2244.55   -1546.91   215.85   0.00   1400,000   90.40   359.81   1885.76   2244.55   -1546.91   215.85   0.00   1500,000   90.40   359.81   1885.78   3044.55   -1548.95   305.96   0.00   1500,000   90.40   359.81   1880.78   3044.55   -1548.95   305.96   0.00   1500,000   90.40   359.81   1848.70   3344.51   -1549.95   305.75   0.00   1500,000   90.40   359.81   1848.70   3344.51   -1549.95   305.75   0.00   1500,000   90.40   359.81   1846.82   3444.50   -1550.23   366.89   0.00   1500,000   90.40   359.81   1846.82   3444.50   -1550.23   366.89   0.00   1500,000   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.50   -1551.85   400.00   90.40   359.81   1846.82   3444.60   -1551.85   400.00   90.40   359.81   1846.82   3444.60   -1551.85   400.00   90.40   359.81   1846.82   3444.85   -1551.85   400.00   90.40   359.81   1846.82   3444.85   -1551.85   400.00   90.40   359.81   1846.82   3444.85   -1551.85   400.00   90.40   359.81   1846.82   3444.85   -1551.85									
1390.00   94.0   359.81   1853.01   1845.55   -1845.82   2117.37   0.00     1400.00   94.0   359.81   1857.71   2044.55   -1845.81   2315.97   0.00     1420.00   94.0   359.81   1855.62   2244.54   -1845.85   2545.81   0.00     1420.00   94.0   359.81   1855.62   2244.54   -1845.85   2545.81   0.00     1420.00   94.0   359.81   1855.62   2244.54   -1845.85   2545.81   0.00     1420.00   94.0   359.81   1852.45   2344.54   -1845.85   2545.81   0.00     1420.00   94.0   359.81   1852.55   2645.81   -1847.52   2713.18   0.00     1420.00   94.0   359.81   1852.55   2645.81   -1847.52   2412.81   0.00     1420.00   94.0   359.81   1852.56   2644.53   -1547.57   2812.81   0.00     1420.00   94.0   359.81   1852.76   2844.53   -1547.57   2812.81   0.00     1420.00   94.0   359.81   1852.76   2844.53   -1548.52   3110.38   0.00     1420.00   94.0   359.81   1850.08   3445.2   -1548.50   3208.68   0.00     1520.00   94.0   359.81   1889.08   3244.52   -1549.52   3308.69   0.00     1520.00   94.0   359.81   1884.01   3444.51   -1552.56   300.89   0.00     1520.00   94.0   359.81   1884.01   3444.51   -1552.56   300.89   0.00     1520.00   94.0   359.81   1848.01   3444.51   -1552.65   300.89   0.00     1520.00   94.0   359.81   1846.52   3644.50   -1559.05   300.549   0.00     1520.00   94.0   359.81   1846.52   3644.50   -1559.65   300.79   0.00     1520.00   94.0   359.81   1846.52   3644.50   -1559.65   300.79   0.00     1520.00   94.0   359.81   1846.52   3644.50   -1559.65   300.79   0.00     1520.00   94.0   359.81   1846.53   3644.50   -1551.82   300.89   0.00     1520.00   94.0   359.81   1846.53   3644.50   -1551.82   300.89   0.00     1520.00   94.0   359.81   1846.53   3644.50   -1551.85   300.89   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00									
1400.00   90.40   359.81   11857.07   2044.55   -1545.58   2315.97   0.00     1400.00   90.40   359.81   1185.62   2244.55   -1546.25   2415.27   0.00     1400.00   90.40   359.81   1185.63   2244.54   -1546.58   2514.58   0.00     1400.00   90.40   359.81   1185.42   2244.54   -1546.25   2514.58   0.00     1400.00   90.40   359.81   1185.42   2244.54   -1546.24   2713.18   0.00     1400.00   90.40   359.81   1185.25   2544.53   -1547.57   2812.48   0.00     1400.00   90.40   359.81   1185.16   2843.3   -1547.57   2812.48   0.00     1400.00   90.40   359.81   1185.16   2843.3   -1547.57   2812.48   0.00     1400.00   90.40   359.81   1185.17   2843.3   -1548.57   3101.08   0.00     1500.00   90.40   359.81   1185.07   3044.55   -1548.57   3103.80   0.00     1500.00   90.40   359.81   1185.07   3044.55   -1548.57   3103.80   0.00     1500.00   90.40   359.81   1184.03   3245.2   -1548.57   3103.80   0.00     1500.00   90.40   359.81   1184.03   3445.1   -1550.26   3006.89   0.00     1500.00   90.40   359.81   1184.01   3445.1   -1550.26   3006.89   0.00     1500.00   90.40   359.81   1184.62   3645.0   -1550.06   3006.89   0.00     1500.00   90.40   359.81   1184.52   3445.0   -1550.18   3006.89   0.00     1500.00   90.40   359.81   1184.52   3445.0   -1551.28   3904.79   0.00     1500.00   90.40   359.81   1184.52   3444.0   -1552.26   400.10   0.00     1500.00   90.40   359.81   1184.52   3444.8   -1552.56   400.10   0.00     1500.00   90.40   359.81   1184.52   3444.8   -1552.56   400.10   0.00     1500.00   90.40   359.81   1184.53   4044.48   -1552.20   400.10   0.00     1600.00   90.40   359.81   1184.53   4044.49   -1552.80   400.10   0.00     1600.00   90.40   359.81   1184.53   4044.46   -1552.56   400.10   0.00     1600.00   90.40   359.81   1184.56   2444.40   -1552.80   400.10   0.00     1600.00   90.40   359.81   1184.58   4044.46   -1552.50   400.10   0.00     1600.00   90.40   359.81   1184.58   4044.46   -1552.50   400.10   0.00     1600.00   90.40   359.81   1184.58   4044.46   -1552.50   400.									
141000   90.40   359.81   1185.02   2244.55   -1546.25   345.91   2415.27   0.00     143000   90.40   359.81   1185.63   2244.54   -1546.58   2613.88   0.00     145000   90.40   359.81   1185.42   2544.54   -1546.51   2613.88   0.00     145000   90.40   359.81   1185.26   2743.3   -1547.57   2812.48   0.00     146000   90.40   359.81   1185.26   2743.3   -1547.57   2812.48   0.00     146000   90.40   359.81   1185.26   2743.3   -1547.57   2812.48   0.00     149000   90.40   359.81   1185.26   2743.3   -1547.57   2812.48   0.00     150000   90.40   359.81   1185.07   2743.3   -1548.27   3810.38   0.00     150000   90.40   359.81   1185.00   3145.2   -1549.23   3808.99   0.00     150000   90.40   359.81   1184.07   3344.52   -1549.23   3808.99   0.00     150000   90.40   359.81   1184.07   3344.51   -1550.23   3608.89   0.00     150000   90.40   359.81   1184.07   3344.51   -1550.23   3608.89   0.00     150000   90.40   359.81   1184.07   3344.51   -1550.23   3608.89   0.00     150000   90.40   359.81   1184.73   3344.50   -1551.26   3000.49   0.00     150000   90.40   359.81   1184.53   3744.50   -1551.26   3000.49   0.00     150000   90.40   359.81   1184.53   3744.50   -1551.26   4004.10   0.00     150000   90.40   359.81   1184.53   3744.50   -1551.26   4004.10   0.00     150000   90.40   359.81   1184.58   4044.9   -1552.25   4002.70   0.00     160000   90.40   359.81   1184.64   4344.49   -1552.26   4000.40   0.00     160000   90.40   359.81   1184.64   4344.44   -1553.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.26   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40   0.00     160000   90.40   359.81   1184.08   4044.49   -1552.50   4000.40									
1420000   90.40   359.81   11856.63   244.55   -1546.58   514.58   0.00     1430000   90.40   359.81   1185.63   244.54   -1546.58   618.88   0.00     1450000   90.40   359.81   1185.20   244.54   -1546.91   2613.88   0.00     140000   90.40   359.81   1185.25   264.53   -1547.57   2812.48   0.00     1470000   90.40   359.81   1185.26   244.53   -1547.57   2812.48   0.00     1490000   90.40   359.81   1185.26   244.53   -1547.57   2812.48   0.00     1490000   90.40   359.81   1185.27   244.53   -1548.57   3110.38   0.00     1490000   90.40   359.81   1185.07   304.52   -1548.90   3011.08   0.00     1500000   90.40   359.81   1185.07   304.52   -1548.90   3008.99   0.00     1500000   90.40   359.81   1184.93   324.52   -1549.57   3008.99   0.00     1500000   90.40   359.81   1184.93   324.52   -1549.57   3008.99   0.00     1500000   90.40   359.81   1184.91   344.51   -1550.56   3068.99   0.00     1500000   90.40   359.81   1184.93   344.51   -1550.95   3068.99   0.00     1500000   90.40   359.81   1184.93   344.50   -1551.50   4004.10   0.00     1500000   90.40   359.81   1184.59   344.50   -1551.50   4004.10   0.00     1500000   90.40   359.81   1184.59   344.50   -1551.26   4004.10   0.00     1600000   90.40   359.81   1184.59   344.50   -1551.26   4004.10   0.00     1600000   90.40   359.81   1184.59   344.50   -1551.50   4004.10   0.00     1600000   90.40   359.81   1184.59   344.50   -1551.50   4004.10   0.00     1600000   90.40   359.81   1184.51   444.44   -1552.62   4007.70   0.00     1600000   90.40   359.81   1184.51   444.44   -1552.62   4007.70   0.00     1600000   90.40   359.81   1184.35   444.44   -1552.55   4599.90   0.00     1600000   90.40   359.81   1183.90   464.44   -1552.55   4599.90   0.00     1600000   90.40   359.81   1183.90   464.44   -1552.55   4599.90   0.00     1600000   90.40   359.81   1183.90   464.44   -1552.55   4599.90   0.00     1700000   90.40   359.81   1183.83   464.44   -1555.55   4599.90   0.00     1700000   90.40   359.81   1183.83   464.44   -1555.55   4599.90   0.0									
Haboloo									
144000   90.40   359.81   1185.42   244.54   -154.691   2613.88   0.00   145000   90.40   359.81   1185.24   245.45   -154.757   2812.48   0.00   14700.00   90.40   359.81   1185.216   244.53   -154.757   2812.48   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.00   0.									
1450000         90.40         359.81         1185.355         264.543         -1547.24         2713.18         0.00           1470000         90.40         359.81         11852.86         274.453         -1547.91         2911.78         0.00           1480000         90.40         359.81         11852.16         284.453         -1548.24         3011.08         0.00           150000         90.40         359.81         11850.76         344.53         -1548.24         3011.08         0.00           150000         90.40         359.81         11850.78         304.52         -1548.90         200.06         0.00           152000         90.40         359.81         1184.93         324.52         -1549.57         3408.29         0.00           154000         90.40         359.81         1184.51         -1550.35         3606.89         0.00           1550000         90.40         359.81         1184.662         3644.50         -1551.03         390.49         0.00           1590000         90.40         359.81         1184.662         3644.50         -1551.23         390.479         0.00           1590000         90.40         359.81         1184.35         344.50         -15									
146000   90.40   359.81   1185.25   264.45   1547.57   2812.48   0.00     1470000   90.40   359.81   1185.216   2844.53   -1548.24   3011.08   0.00     1480000   90.40   359.81   1185.216   2844.53   -1548.27   3110.38   0.00     1510000   90.40   359.81   1185.078   3044.52   -1548.93   3020.68   0.00     1510000   90.40   359.81   1189.078   3044.52   -1548.93   3020.68   0.00     1520000   90.40   359.81   1184.93   344.52   -1549.93   3507.59   0.00     1530000   90.40   359.81   1184.93   344.51   -1550.56   3706.19   0.00     1550000   90.40   359.81   1184.91   344.51   -1550.26   3706.19   0.00     1570000   90.40   359.81   1184.93   344.51   -1550.56   3706.19   0.00     1570000   90.40   359.81   1184.52   344.50   -1551.23   3904.79   0.00     1570000   90.40   359.81   1184.53   374.50   -1551.23   3904.79   0.00     1570000   90.40   359.81   1184.53   374.50   -1551.26   4004.10   0.00     1600000   90.40   359.81   1184.53   344.50   -1551.26   4004.10   0.00     1600000   90.40   359.81   1184.53   344.50   -1551.26   4004.10   0.00     1600000   90.40   359.81   1184.35   4044.49   -1552.26   4002.00   0.00     1600000   90.40   359.81   1184.35   4044.49   -1552.26   4002.00   0.00     1600000   90.40   359.81   1184.93   444.48   -1553.85   459.90   0.00     1600000   90.40   359.81   1184.93   444.48   -1553.85   459.90   0.00     1600000   90.40   359.81   1184.93   444.47   -1554.85   4897.81   0.00     1600000   90.40   359.81   1183.93   444.47   -1554.54   459.61   0.00     1600000   90.40   359.81   1183.93   444.47   -1554.55   499.61   0.00     1600000   90.40   359.81   1183.93   444.47   -1554.55   499.61   0.00     1600000   90.40   359.81   1183.93   444.44   -1555.27   599.51   0.00     1700000   90.40   359.81   1183.95   544.44   -1555.27   599.51   0.00     1700000   90.40   359.81   1183.95   544.44   -1555.85   599.51   0.00     1700000   90.40   359.81   1183.95   544.44   -1555.85   599.51   0.00     1700000   90.40   359.81   1183.95   544.44   -1555.85   599.51   0.0									
1470.00   90.40   359.81   1182.26   2744.53   1547.91   2911.78   0.00     1490.00   90.40   359.81   1185.17   2944.53   1548.67   3110.38   0.00     1500.00   90.40   359.81   1185.07   3044.52   1548.90   3209.68   0.00     1520.00   90.40   359.81   1185.07   3144.52   1549.23   3308.99   0.00     15300.00   90.40   359.81   1184.01   3444.51   1550.23   3606.89   0.00     15400.00   90.40   359.81   1184.01   3444.51   1550.23   3606.89   0.00     15500.00   90.40   359.81   1184.52   3344.51   1549.03   3608.99   0.00     15500.00   90.40   359.81   1184.52   3344.51   1549.03   3608.99   0.00     15600.00   90.40   359.81   1184.52   3445.0   1551.56   3706.19   0.00     15700.00   90.40   359.81   1184.54   3944.50   1551.56   4004.10   0.00     15800.00   90.40   359.81   1184.54   3944.50   1551.56   4004.10   0.00     15900.00   90.40   359.81   1184.54   3944.50   1551.56   4004.10   0.00     16000.00   90.40   359.81   1184.52   3944.50   1551.69   4004.49   1502.22   4202.70   0.00     16000.00   90.40   359.81   1184.54   3944.50   1551.69   4004.49   1604.49   1502.22   4202.70   0.00     16000.00   90.40   359.81   1184.56   4144.49   1552.56   4004.10   0.00     16000.00   90.40   359.81   1184.50   4144.49   1552.56   4004.10   0.00     16000.00   90.40   359.81   1184.50   4144.49   1552.56   4004.00   0.00     16000.00   90.40   359.81   1184.00   4444.48   1553.22   4202.70   0.00     16000.00   90.40   359.81   1184.00   4444.48   1553.25   4599.90   400.00   0.00     16000.00   90.40   359.81   1184.00   4444.49   1552.55   4599.10   0.00     16000.00   90.40   359.81   1184.00   4444.49   1552.55   4599.10   0.00     16000.00   90.40   359.81   1184.00   4444.49   1552.55   4599.10   0.00     17000.00   90.40   359.81   1183.00   4844.47   1555.55   4599.10   0.00     17000.00   90.40   359.81   1183.00   4844.47   1555.55   4599.10   0.00     17000.00   90.40   359.81   1183.45   5444.45   1555.25   5995.11   0.00     17000.00   90.40   359.81   1183.45   5444.45   1555.20   688.83									
14800.00   90.40   359.81   1185.216   2844.53   1548.24   3011.08   0.00									
14900.00   90.40   359.81   1185.147   2944.53   1548.57   3110.38   0.00									
1500.00   90.40   359.81   1185.078   3044.52   -1548.90   3209.68   0.00									
15100.00 90.40 359.81 11850.08 3144.52 -1549.23 3308.99 0.00 15300.00 90.40 359.81 11849.39 3244.52 -1549.57 3408.29 0.00 15300.00 90.40 359.81 11848.01 3444.51 -1550.23 3060.89 0.00 15500.00 90.40 359.81 11848.01 3444.51 -1550.25 3706.19 0.00 15500.00 90.40 359.81 11845.03 344.51 -1550.25 3706.19 0.00 15500.00 90.40 359.81 11845.23 3844.50 -1550.90 3805.49 0.00 15700.00 90.40 359.81 11845.23 3844.50 -1551.56 4004.10 0.00 15900.00 90.40 359.81 11845.33 344.50 -1551.56 4004.10 0.00 15900.00 90.40 359.81 11843.81 3444.54 3944.50 -1551.56 4004.10 0.00 16000.00 90.40 359.81 11843.81 4144.49 -1552.56 4302.00 0.00 16100.00 90.40 359.81 11843.15 4144.49 -1552.56 4302.00 0.00 16200.00 90.40 359.81 11844.17 4344.48 -1553.22 4500.60 0.00 16300.00 90.40 359.81 11841.08 4444.48 -1553.25 4500.60 0.00 16500.00 90.40 359.81 11843.81 4444.49 -1552.52 4500.60 0.00 16600.00 90.40 359.81 11843.81 4444.48 -1553.32 4500.60 0.00 16600.00 90.40 359.81 11839.69 4644.48 -15553.82 4500.60 0.00 16600.00 90.40 359.81 11839.69 4644.48 -15553.85 4999.0 0.00 16700.00 90.40 359.81 11839.69 4644.48 -15553.85 4999.10 0.00 16700.00 90.40 359.81 11830.81 4844.48 -1555.85 4999.10 0.00 16700.00 90.40 359.81 11835.61 4644.48 -1555.85 5999.0 0.00 16700.00 90.40 359.81 11835.61 4644.48 -1555.85 5999.0 0.00 16700.00 90.40 359.81 11835.61 4644.48 -1555.85 5999.0 0.00 16700.00 90.40 359.81 11835.61 4644.48 -1555.85 5999.0 0.00 17000.00 90.40 359.81 11835.81 4444.49 -1555.85 5999.0 0.00 17000.00 90.40 359.81 11833.75 5444.46 -1555.85 5999.0 0.00 17000.00 90.40 359.81 11833.75 5444.46 -1555.85 5999.0 0.00 17000.00 90.40 359.81 11832.85 6444.46 -1555.85 5999.0 0.00 17000.00 90.40 359.81 11832.65 5644.45 -1556.54 5493.62 0.00 17000.00 90.40 359.81 11832.85 5644.45 -1556.54 5493.62 0.00 17000.00 90.40 359.81 11832.85 5644.45 -1556.54 5493.62 0.00 17000.00 90.40 359.81 1182.99 6144.43 -1556.54 5493.62 0.00 17000.00 90.40 359.81 1182.99 6144.43 -1556.95 5688.33 0.00 18000.00 90.40 359.81 1182.91 6344.44 -1556.95 6688.33 0.00 18000.00 90.40 359.81 1182.91 6344.4									
15200.00         90.40         359.81         11849.39         3244.52         -1549.57         3408.29         0.00           15400.00         90.40         359.81         11848.70         3344.51         -1549.90         3507.59         0.00           15500.00         90.40         359.81         11847.31         3544.51         -1550.02         3606.89         0.00           15700.00         90.40         359.81         11845.93         3744.50         -1551.23         3904.79         0.00           15800.00         90.40         359.81         11845.93         3744.50         -1551.23         3904.79         0.00           15900.00         90.40         359.81         11843.53         384.50         -1551.89         400.40         0.00           16000.00         90.40         359.81         11843.85         404.49         -1552.22         4202.70         0.00           16200.00         90.40         359.81         11841.64         4244.49         -1552.89         401.30         0.00           16400.00         90.40         359.81         11840.38         444.48         -1553.82         490.60         0.00           16600.00         90.40         359.81         11840.38 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
15400.00         90.40         359.81         11848.01         354.51         -1550.23         3606.89         0.00           15500.00         90.40         359.81         11845.33         354.51         -1550.90         3808.49         0.00           15700.00         90.40         359.81         11845.53         3744.50         -1551.23         3904.79         0.00           15800.00         90.40         359.81         11845.53         3844.50         -1551.56         4004.10         0.00           15900.00         90.40         359.81         11843.55         4044.49         -1552.22         2402.70         0.00           16200.00         90.40         359.81         11843.65         444.49         -1552.56         4302.00         0.00           16200.00         90.40         359.81         11841.77         4344.48         -1553.55         4401.30         0.00           16300.00         90.40         359.81         11840.38         4544.48         -1553.88         4699.21         0.00           16600.00         90.40         359.81         11883.00         464.48         -1554.22         4798.51         0.00           16700.00         90.40         359.81         11883.60 </td <td></td> <td>90.40</td> <td>359.81</td> <td></td> <td></td> <td></td> <td></td> <td>0.00</td> <td></td>		90.40	359.81					0.00	
1550000         90.40         359.81         11847.31         354.51         -1550.90         390.49         0.00           1560000         90.40         359.81         11846.62         3644.50         -1550.90         3805.49         0.00           1580000         90.40         359.81         11845.23         3844.50         -1551.56         4004.10         0.00           15900.00         90.40         359.81         11844.54         3944.50         -1551.89         4103.40         0.00           16000.00         90.40         359.81         11843.55         4044.49         -1552.22         4202.70         0.00           16200.00         90.40         359.81         11843.15         4144.49         -1552.25         4302.00         0.00           16200.00         90.40         359.81         11840.17         4344.48         -1553.25         490.60         0.00           16600.00         90.40         359.81         11840.08         4444.48         -1553.25         4599.90         0.00           16600.00         90.40         359.81         11839.99         464.48         -1554.22         4798.51         0.00           16900.00         90.40         359.81         11839.69	15300.00	90.40	359.81	11848.70	3344.51	-1549.90	3507.59	0.00	
15600.00         90.40         359.81         11845.62         364.50         -1550.90         3805.49         0.00           15800.00         90.40         359.81         11845.53         3844.50         -1551.56         4004.10         0.00           15900.00         90.40         359.81         11843.85         4044.49         -1552.22         4202.70         0.00           16000.00         90.40         359.81         11843.85         4044.49         -1552.22         4202.70         0.00           16200.00         90.40         359.81         11842.46         4224.49         -1552.89         4001.30         0.00           16300.00         90.40         359.81         11841.77         4344.48         -1553.82         4500.60         0.00           16600.00         90.40         359.81         11840.08         4544.48         -1553.85         4599.90         0.00           16600.00         90.40         359.81         11830.69         4644.48         -1554.22         4798.51         0.00           16900.00         90.40         359.81         11838.30         4844.7         -1554.55         4897.81         0.00           17000.00         90.40         359.81         11836.62	15400.00	90.40	359.81	11848.01	3444.51	-1550.23	3606.89	0.00	
15700.00         90.40         359.81         11845.23         3844.50         -1551.23         3904.79         0.00           15800.00         90.40         359.81         11845.23         3844.50         -1551.89         4103.40         0.00           16000.00         90.40         359.81         11843.85         4044.49         -1552.26         4302.00         0.00           16200.00         90.40         359.81         11843.15         4144.49         -1552.26         4302.00         0.00           16300.00         90.40         359.81         11841.77         4344.48         -1553.25         4500.60         0.00           16400.00         90.40         359.81         11841.08         4444.88         -1553.25         4599.90         0.00           16600.00         90.40         359.81         11839.69         4644.48         -1553.25         4599.21         0.00           16600.00         90.40         359.81         11839.69         4644.48         -1554.25         4798.51         0.00           16800.00         90.40         359.81         11838.30         4844.7         -1554.59         4997.11         0.00           17000.00         90.40         359.81         11836.5	15500.00	90.40	359.81	11847.31	3544.51	-1550.56	3706.19	0.00	
15800.00         90.40         359.81         11844.52         3844.50         -1551.65         4004.10         0.00           15900.00         90.40         359.81         11843.85         4044.49         -1552.22         4202.70         0.00           16100.00         90.40         359.81         11843.85         4044.49         -1552.26         4302.00         0.00           16200.00         90.40         359.81         11841.77         4344.48         -1553.22         480.60         0.00           16400.00         90.40         359.81         11841.77         4344.48         -1553.25         4800.60         0.00           16500.00         90.40         359.81         11841.81         444.48         -1553.25         4899.90         0.00           16500.00         90.40         359.81         11839.69         464.48         -1554.22         4798.51         0.00           16800.00         90.40         359.81         11838.90         484.47         -1554.85         4997.81         0.00           16900.00         90.40         359.81         11837.61         494.47         -1554.89         4997.11         0.00           17000.00         90.40         359.81         11836.22 <td>15600.00</td> <td>90.40</td> <td>359.81</td> <td>11846.62</td> <td>3644.50</td> <td>-1550.90</td> <td>3805.49</td> <td>0.00</td> <td></td>	15600.00	90.40	359.81	11846.62	3644.50	-1550.90	3805.49	0.00	
15900.00         90.40         359.81         11843.45         3944.50         -1551.89         4103.40         0.00           16000.00         90.40         359.81         11843.15         4144.49         -1552.22         4202.70         0.00           16200.00         90.40         359.81         11843.15         4144.49         -1552.89         4401.30         0.00           16300.00         90.40         359.81         11841.77         4344.48         -1553.22         4500.60         0.00           16500.00         90.40         359.81         11841.08         4444.48         -1553.28         499.90         0.00           16500.00         90.40         359.81         11840.88         4544.48         -1553.88         4699.21         0.00           16600.00         90.40         359.81         11838.90         4644.48         -1554.28         4997.11         0.00           16800.00         90.40         359.81         11838.50         2544.46         -1555.25         599.51         10.00           17000.00         90.40         359.81         11836.22         5144.46         -1555.25         599.51         10.00           17000.00         90.40         359.81         11834.4									
16000.00         90.40         359.81         11843.85         4044.49         -1552.22         4202.70         0.00           16100.00         90.40         359.81         11842.46         4244.49         -1552.82         4302.00         0.00           16300.00         90.40         359.81         11841.77         4344.48         -1553.32         4500.60         0.00           16400.00         90.40         359.81         11841.08         4444.48         -1553.35         4599.90         0.00           16600.00         90.40         359.81         1183.38         4544.48         -1553.85         4699.21         0.00           16600.00         90.40         359.81         1183.30         4644.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         1183.30         484.47         -1554.55         4897.81         0.00           16900.00         90.40         359.81         1183.61         4944.47         -1555.55         5195.71         0.00           17000.00         90.40         359.81         1183.62         5044.46         -1555.85         5195.71         0.00           17200.00         90.40         359.81         1183.45									
16100.00         90.40         359.81         11843.15         4144.49         -1552.56         4302.00         0.00           16200.00         90.40         359.81         11841.77         434.48         -1552.29         4401.30         0.00           16400.00         90.40         359.81         11841.08         444.48         -1553.25         4599.90         0.00           16500.00         90.40         359.81         11839.69         464.48         -1553.83         4699.21         0.00           16700.00         90.40         359.81         11839.00         474.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         11839.00         474.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         11836.02         504.44         -1555.88         4997.11         0.00           1700.00         90.40         359.81         11836.92         504.44         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11834.85         534.45         -1556.21         5394.31         0.00           17300.00         90.40         359.81         11834.84									
16200.00         90.40         359.81         11842.46         4244.49         -1552.89         4401.30         0.00           16300.00         90.40         359.81         11841.77         4344.48         -1553.25         4590.60         0.00           16500.00         90.40         359.81         11840.38         4544.48         -1553.85         4599.90         0.00           16600.00         90.40         359.81         11839.69         4644.48         -1553.85         1 0.00           16700.00         90.40         359.81         11839.69         4644.48         -1554.52         4798.51         0.00           16800.00         90.40         359.81         11838.30         4844.47         -1554.55         4897.81         0.00           16900.00         90.40         359.81         11837.61         4944.47         -1555.21         5096.41         0.00           17000.00         90.40         359.81         11835.53         5244.66         -1555.85         5295.01         0.00           17200.00         90.40         359.81         11833.48         5344.45         -1556.54         5394.31         0.00           17500.00         90.40         359.81         11833.45         554									
16300.00         90.40         359.81         11841.77         4344.48         -1553.22         4500.60         0.00           16400.00         90.40         359.81         11841.08         4444.48         -1553.55         4599.90         0.00           16600.00         90.40         359.81         11839.69         4644.48         -1553.82         4798.51         0.00           16700.00         90.40         359.81         11839.00         4744.47         -1554.52         4798.71         0.00           16800.00         90.40         359.81         11837.61         4944.47         -1554.82         4997.11         0.00           16900.00         90.40         359.81         11836.92         5044.46         -1555.88         599.71         0.00           17000.00         90.40         359.81         11836.22         5144.46         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11834.84         5344.45         -1556.54         5493.62         0.00           17300.00         90.40         359.81         11832.76         5544.45         -1557.21         5692.22         0.00           17600.00         90.40         359.81         11832.0									
16400.00         90.40         359.81         11841.08         4444.48         -1553.55         4599.90         0.00           16500.00         90.40         359.81         11840.38         4544.48         -1554.22         4798.51         0.00           16700.00         90.40         359.81         11839.00         4744.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         11838.30         4844.47         -1554.82         4997.11         0.00           16900.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17000.00         90.40         359.81         11836.22         5144.46         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11835.53         5244.46         -1556.54         5493.62         0.00           17300.00         90.40         359.81         11834.55         544.45         -1556.27         5593.62         0.00           17500.00         90.40         359.81         11833.45         5544.45         -1557.21         5692.22         0.00           17600.00         90.40         359.81         11830.6									
16500.00         90.40         359.81         11840.38         4544.48         -1553.88         4699.21         0.00           16600.00         90.40         359.81         11839.69         4644.48         -1554.22         4798.51         0.00           16700.00         90.40         359.81         11839.00         4744.47         -1554.88         4997.11         0.00           16900.00         90.40         359.81         11837.61         4944.47         -1555.21         5096.41         0.00           17000.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17100.00         90.40         359.81         11836.92         5144.46         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11834.84         5344.45         -1556.24         593.62         0.00           17500.00         90.40         359.81         11834.15         5444.45         -1556.54         593.62         0.00           17500.00         90.40         359.81         11834.15         554.44         -1557.57         599.012         0.00           17700.00         90.40         359.81         11831.37<									
16600.00         90.40         359.81         11839.69         4644.48         -1554.22         4798.51         0.00           16700.00         90.40         359.81         11839.00         4744.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         11838.30         4844.47         -1555.21         5096.41         0.00           17000.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17200.00         90.40         359.81         11836.22         5144.46         -1555.85         5295.01         0.00           17200.00         90.40         359.81         11835.53         5244.46         -1556.54         539.62         0.00           17300.00         90.40         359.81         11833.45         5344.45         -1556.87         5592.92         0.00           17500.00         90.40         359.81         11833.45         5544.45         -1557.87         5592.92         0.00           17600.00         90.40         359.81         11833.45         5544.45         -1557.87         589.82         0.00           17800.00         90.40         359.81         11830.76									
16700.00         90.40         359.81         11839.00         4744.47         -1554.55         4897.81         0.00           16800.00         90.40         359.81         11836.30         4844.47         -1555.88         4997.11         0.00           17000.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17100.00         90.40         359.81         11835.53         5244.46         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11834.84         5344.45         -1556.21         5394.31         0.00           17400.00         90.40         359.81         11834.84         5344.45         -1556.87         5592.92         0.00           17500.00         90.40         359.81         11832.45         5544.45         -1557.54         5791.52         0.00           17600.00         90.40         359.81         11832.76         5644.45         -1557.54         5791.52         0.00           17700.00         90.40         359.81         11831.37         5844.44         -1557.87         5890.82         0.00           17800.00         90.40         359.81         11820.									
16800.00         90.40         359.81         11838.30         4844.47         -1554.88         4997.11         0.00           16900.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17100.00         90.40         359.81         11836.92         5144.46         -1555.85         5295.01         0.00           17200.00         90.40         359.81         11835.53         5244.46         -1556.21         5394.31         0.00           17300.00         90.40         359.81         11834.15         5444.45         -1556.87         5592.92         0.00           17500.00         90.40         359.81         11833.45         5444.45         -1557.21         5692.22         0.00           17600.00         90.40         359.81         11832.76         5644.45         -1557.54         5791.52         0.00           17700.00         90.40         359.81         11832.07         5744.44         -1558.53         6089.42         0.00           17800.00         90.40         359.81         11830.68         5944.44         -1558.53         6089.42         0.00           18000.00         90.40         359.81         11829.									
16900.00         90.40         359.81         11837.61         4944.47         -1555.21         5096.41         0.00           17000.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17100.00         90.40         359.81         11836.52         5144.46         -1556.81         5394.31         0.00           17200.00         90.40         359.81         11834.85         5344.45         -1556.64         5493.62         0.00           17400.00         90.40         359.81         11834.15         5444.45         -1556.87         5592.92         0.00           17500.00         90.40         359.81         11833.45         5544.45         -1557.51         5692.22         0.00           17600.00         90.40         359.81         11832.07         5744.44         -1557.87         5890.82         0.00           17800.00         90.40         359.81         11831.37         5844.44         -1558.20         5990.12         0.00           17900.00         90.40         359.81         11820.99         6044.43         -1558.87         6188.73         0.00           18000.00         90.40         359.81         11829.									
17000.00         90.40         359.81         11836.92         5044.46         -1555.55         5195.71         0.00           17100.00         90.40         359.81         11836.22         5144.46         -1555.88         5295.01         0.00           17200.00         90.40         359.81         11834.84         5344.45         -1556.54         5493.62         0.00           17400.00         90.40         359.81         11834.15         5444.45         -1556.87         5592.92         0.00           17500.00         90.40         359.81         11833.45         5544.45         -1557.21         5692.22         0.00           17600.00         90.40         359.81         11832.76         5644.45         -1557.54         5791.52         0.00           17700.00         90.40         359.81         11832.07         5744.44         -1557.87         5890.82         0.00           17800.00         90.40         359.81         11831.37         5844.44         -1558.87         6188.73         0.00           18000.00         90.40         359.81         11829.99         6044.43         -1559.86         688.03         0.00           18200.00         90.40         359.81         11826.6									
17100.00       90.40       359.81       11836.22       5144.46       -1555.88       5295.01       0.00         17200.00       90.40       359.81       11835.53       5244.46       -1556.21       5394.31       0.00         17300.00       90.40       359.81       11834.84       5344.45       -1556.54       5493.62       0.00         17500.00       90.40       359.81       11833.45       5544.45       -1556.87       5592.92       0.00         17600.00       90.40       359.81       11832.76       5644.45       -1557.54       5791.52       0.00         17700.00       90.40       359.81       11832.07       5744.44       -1558.20       599.12       0.00         17800.00       90.40       359.81       11831.37       5844.44       -1558.20       5990.12       0.00         17900.00       90.40       359.81       11830.68       5944.44       -1558.83       6089.42       0.00         18000.00       90.40       359.81       11829.99       6044.43       -1558.83       6089.42       0.00         18200.00       90.40       359.81       11828.66       6244.43       -1559.53       6387.33       0.00         18200.00									
17200.00       90.40       359.81       11835.53       5244.46       -1556.21       5394.31       0.00         17300.00       90.40       359.81       11834.84       5344.45       -1556.54       5493.62       0.00         17500.00       90.40       359.81       11834.15       5444.45       -1556.67       5592.22       0.00         17500.00       90.40       359.81       11832.76       5644.45       -1557.51       5692.22       0.00         17700.00       90.40       359.81       11832.76       5644.45       -1557.54       5791.52       0.00         17800.00       90.40       359.81       11831.37       5844.44       -1558.20       5990.12       0.00         17900.00       90.40       359.81       11830.68       5944.44       -1558.53       6089.42       0.00         18000.00       90.40       359.81       11829.99       6044.43       -1558.87       6188.73       0.00         18200.00       90.40       359.81       11828.60       6244.43       -1559.53       6387.33       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.53       6387.33       0.00         18500.00									
17400.00       90.40       359.81       11834.15       5444.45       -1556.87       5592.92       0.00         17500.00       90.40       359.81       11833.45       5544.45       -1557.21       5692.22       0.00         17600.00       90.40       359.81       11832.07       5744.44       -1557.54       5791.52       0.00         17700.00       90.40       359.81       11831.37       5844.44       -1557.87       5890.82       0.00         17900.00       90.40       359.81       11830.68       5944.44       -1558.20       5990.12       0.00         18000.00       90.40       359.81       1182.99       6044.43       -1558.53       6089.42       0.00         18100.00       90.40       359.81       1182.99       6044.43       -1559.20       6288.03       0.00         18200.00       90.40       359.81       11827.91       6344.43       -1559.53       6387.33       0.00         18400.00       90.40       359.81       11827.92       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18600.00									
17500.00         90.40         359.81         11833.45         5544.45         -1557.21         5692.22         0.00           17600.00         90.40         359.81         11832.76         5644.45         -1557.54         5791.52         0.00           17700.00         90.40         359.81         11832.07         5744.44         -1557.87         5890.82         0.00           17800.00         90.40         359.81         11830.68         5944.44         -1558.20         5990.12         0.00           18000.00         90.40         359.81         11829.99         6044.43         -1558.87         6188.73         0.00           18100.00         90.40         359.81         11829.99         6044.43         -1559.20         6288.03         0.00           18200.00         90.40         359.81         11828.60         6244.43         -1559.53         6387.33         0.00           18300.00         90.40         359.81         11827.91         6344.43         -1559.53         6387.33         0.00           18400.00         90.40         359.81         11827.22         6444.42         -1560.20         6585.93         0.00           18500.00         90.40         359.81         11825.	17300.00	90.40	359.81	11834.84	5344.45	-1556.54	5493.62	0.00	
17600.00         90.40         359.81         11832.76         5644.45         -1557.54         5791.52         0.00           17700.00         90.40         359.81         11832.07         5744.44         -1557.87         5890.82         0.00           17800.00         90.40         359.81         11831.37         5844.44         -1558.20         5990.12         0.00           17900.00         90.40         359.81         11829.99         6044.43         -1558.53         6089.42         0.00           18000.00         90.40         359.81         11829.99         6044.43         -1558.87         6188.73         0.00           18200.00         90.40         359.81         11828.60         6244.43         -1559.53         6387.33         0.00           18300.00         90.40         359.81         11827.91         6344.43         -1559.53         6387.33         0.00           18400.00         90.40         359.81         11827.91         6344.43         -1559.53         6387.33         0.00           18500.00         90.40         359.81         11827.22         6444.42         -1560.20         688.93         0.00           18600.00         90.40         359.81         11825.8	17400.00	90.40	359.81	11834.15	5444.45	-1556.87	5592.92	0.00	
17700.00       90.40       359.81       11832.07       5744.44       -1557.87       5890.82       0.00         17800.00       90.40       359.81       11831.37       5844.44       -1558.20       5990.12       0.00         17900.00       90.40       359.81       11839.68       5944.44       -1558.53       6089.42       0.00         18000.00       90.40       359.81       11829.99       6044.43       -1558.87       6188.73       0.00         18200.00       90.40       359.81       11828.92       6144.43       -1559.20       6288.03       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.86       6486.63       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18700.00       90.40       359.81       11825.83       6644.42       -1560.66       6784.53       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00									
17800.00       90.40       359.81       11831.37       5844.44       -1558.20       5990.12       0.00         17900.00       90.40       359.81       11830.68       5944.44       -1558.53       6089.42       0.00         18000.00       90.40       359.81       11829.99       6044.43       -1558.87       6188.73       0.00         18100.00       90.40       359.81       11829.29       6144.43       -1559.20       6288.03       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.53       6387.33       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18600.00       90.40       359.81       11825.83       6644.42       -1560.60       6784.53       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00       90.40       359.81       11823.75       6944.41       -1561.96       6983.14       0.00         18900.00									
17900.00       90.40       359.81       11830.68       5944.44       -1558.53       6089.42       0.00         18000.00       90.40       359.81       11829.99       6044.43       -1558.87       6188.73       0.00         18100.00       90.40       359.81       11829.29       6144.43       -1559.20       6288.03       0.00         18200.00       90.40       359.81       11827.91       6344.43       -1559.93       6387.33       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.22       6544.42       -1560.20       6585.93       0.00         18600.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18700.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.52       6983.14       0.00         18900.00									
18000.00       90.40       359.81       11829.99       6044.43       -1558.87       6188.73       0.00         18100.00       90.40       359.81       11829.29       6144.43       -1559.20       6288.03       0.00         18200.00       90.40       359.81       11828.60       6244.43       -1559.53       6387.33       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.86       6486.63       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18600.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.52       6983.14       0.00         18900.00       90.40       359.81       11823.75       694.41       -1561.86       7082.44       0.00         19000.00									
18100.00       90.40       359.81       11829.29       6144.43       -1559.20       6288.03       0.00         18200.00       90.40       359.81       11828.60       6244.43       -1559.53       6387.33       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.86       6486.63       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18700.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00       90.40       359.81       11824.44       6844.41       -1561.52       6983.14       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.86       7082.44       0.00         19000.00       90.40       359.81       11823.05       7044.40       -1562.19       7181.74       0.00									
18200.00       90.40       359.81       11828.60       6244.43       -1559.53       6387.33       0.00         18300.00       90.40       359.81       11827.91       6344.43       -1559.86       6486.63       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.53       6685.23       0.00         18700.00       90.40       359.81       11825.83       6644.42       -1560.86       6784.53       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.86       7082.44       0.00         19000.00       90.40       359.81       11823.05       7044.40       -1562.19       7181.74       0.00									
18300.00       90.40       359.81       11827.91       6344.43       -1559.86       6486.63       0.00         18400.00       90.40       359.81       11827.22       6444.42       -1560.20       6585.93       0.00         18500.00       90.40       359.81       11825.83       6644.42       -1560.86       6784.53       0.00         18700.00       90.40       359.81       11825.81       6644.42       -1560.86       6784.53       0.00         18800.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.52       6983.14       0.00         19000.00       90.40       359.81       11823.75       6944.41       -1561.86       7082.44       0.00         19000.00       90.40       359.81       11823.05       7044.40       -1562.19       7181.74       0.00									
18400.00     90.40     359.81     11827.22     6444.42     -1560.20     6585.93     0.00       18500.00     90.40     359.81     11826.52     6544.42     -1560.53     6685.23     0.00       18600.00     90.40     359.81     11825.83     6644.42     -1560.86     6784.53     0.00       18700.00     90.40     359.81     11825.14     6744.41     -1561.19     6883.83     0.00       18800.00     90.40     359.81     11823.44     6844.41     -1561.56     6983.14     0.00       18900.00     90.40     359.81     11823.75     6944.41     -1561.86     7082.44     0.00       19000.00     90.40     359.81     11823.06     7044.40     -1562.19     7181.74     0.00									
18500.00       90.40       359.81       11826.52       6544.42       -1560.53       6685.23       0.00         18600.00       90.40       359.81       11825.83       6644.42       -1560.86       6784.53       0.00         18700.00       90.40       359.81       11825.14       6744.41       -1561.19       6883.83       0.00         18800.00       90.40       359.81       11824.44       6844.41       -1561.52       6983.14       0.00         18900.00       90.40       359.81       11823.75       6944.41       -1561.86       7082.44       0.00         19000.00       90.40       359.81       11823.06       7044.40       -1562.19       7181.74       0.00									
18600.00     90.40     359.81     11825.83     6644.42     -1560.86     6784.53     0.00       18700.00     90.40     359.81     11825.14     6744.41     -1561.19     6883.83     0.00       18800.00     90.40     359.81     11824.44     6844.41     -1561.52     6983.14     0.00       18900.00     90.40     359.81     11823.75     6944.41     -1561.86     7082.44     0.00       19000.00     90.40     359.81     11823.06     7044.40     -1562.19     7181.74     0.00									
18700.00 90.40 359.81 11825.14 6744.41 -1561.19 6883.83 0.00 18800.00 90.40 359.81 11824.44 6844.41 -1561.52 6983.14 0.00 18900.00 90.40 359.81 11823.75 6944.41 -1561.86 7082.44 0.00 19000.00 90.40 359.81 11823.06 7044.40 -1562.19 7181.74 0.00									
18800.00 90.40 359.81 11824.44 6844.41 -1561.52 6983.14 0.00 18900.00 90.40 359.81 11823.75 6944.41 -1561.86 7082.44 0.00 19000.00 90.40 359.81 11823.06 7044.40 -1562.19 7181.74 0.00									
18900.00 90.40 359.81 11823.75 6944.41 -1561.86 7082.44 0.00 19000.00 90.40 359.81 11823.06 7044.40 -1562.19 7181.74 0.00									
19000.00 90.40 359.81 11823.06 7044.40 -1562.19 7181.74 0.00									
.3.00.00 30.00 333.01 HOLE.30 HTT.TO HOL.3E HEOLOT U.UU	19100.00	90.40	359.81	11822.36	7144.40	-1562.52	7281.04	0.00	
19200.00 90.40 359.81 11821.67 7244.40 -1562.85 7380.34 0.00									
19300.00 90.40 359.81 11820.98 7344.40 -1563.18 7479.64 0.00									
19400.00 90.40 359.81 11820.28 7444.39 -1563.52 7578.94 0.00									



Well: MORGAN 25-13 FED COM 627H

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)

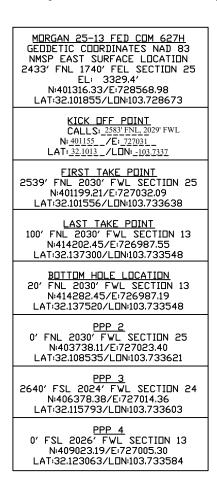
MD	INC	AZI	TVD	NS	EW	vs	DLS	Comment	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(°/100ft)	Comment	
19500.00	90.40	359.81	11819.59	7544.39	-1563.85	7678.25	0.00		
19600.00	90.40	359.81	11818.90	7644.39	-1564.18	7777.55	0.00		
19700.00	90.40	359.81	11818.21	7744.38	-1564.51	7876.85	0.00		
19800.00	90.40	359.81	11817.51	7844.38	-1564.85	7976.15	0.00		
19900.00	90.40	359.81	11816.82	7944.38	-1565.18	8075.45	0.00		
20000.00	90.40	359.81	11816.13	8044.37	-1565.51	8174.75	0.00		
20100.00	90.40	359.81	11815.43	8144.37	-1565.84	8274.05	0.00		
20200.00	90.40	359.81	11814.74	8244.37	-1566.17	8373.36	0.00		
20300.00	90.40	359.81	11814.05	8344.37	-1566.51	8472.66	0.00		
20400.00	90.40	359.81	11813.35	8444.36	-1566.84	8571.96	0.00		
20500.00	90.40	359.81	11812.66	8544.36	-1567.17	8671.26	0.00		
20600.00	90.40	359.81	11811.97	8644.36	-1567.50	8770.56	0.00		
20700.00	90.40	359.81	11811.28	8744.35	-1567.83	8869.86	0.00		
20800.00	90.40	359.81	11810.58	8844.35	-1568.17	8969.16	0.00		
20900.00	90.40	359.81	11809.89	8944.35	-1568.50	9068.46	0.00		
21000.00	90.40	359.81	11809.20	9044.35	-1568.83	9167.77	0.00		
21100.00	90.40	359.81	11808.50	9144.34	-1569.16	9267.07	0.00		
21200.00	90.40	359.81	11807.81	9244.34	-1569.49	9366.37	0.00		
21300.00	90.40	359.81	11807.12	9344.34	-1569.83	9465.67	0.00		
21400.00	90.40	359.81	11806.42	9444.33	-1570.16	9564.97	0.00		
21500.00	90.40	359.81	11805.73	9544.33	-1570.49	9664.27	0.00		
21600.00	90.40	359.81	11805.04	9644.33	-1570.82	9763.57	0.00		
21700.00	90.40	359.81	11804.35	9744.32	-1571.16	9862.88	0.00		
21800.00	90.40	359.81	11803.65	9844.32	-1571.49	9962.18	0.00		
21900.00	90.40	359.81	11802.96	9944.32	-1571.82	10061.48	0.00		
22000.00	90.40	359.81	11802.27	10044.32	-1572.15	10160.78	0.00		
22100.00	90.40	359.81	11801.57	10144.31	-1572.48	10260.08	0.00		
22200.00	90.40	359.81	11800.88	10244.31	-1572.82	10359.38	0.00		
22300.00	90.40	359.81	11800.19	10344.31	-1573.15	10458.68	0.00		
22400.00	90.40	359.81	11799.49	10444.30	-1573.48	10557.98	0.00		
22500.00	90.40	359.81	11798.80	10544.30	-1573.81	10657.29	0.00		
22600.00	90.40	359.81	11798.11	10644.30	-1574.14	10756.59	0.00		
22700.00	90.40	359.81	11797.41	10744.30	-1574.48	10855.89	0.00		
22800.00	90.40	359.81	11796.72	10844.29	-1574.81	10955.19	0.00		
22900.00	90.40	359.81	11796.03	10944.29	-1575.14	11054.49	0.00		
23000.00	90.40	359.81	11795.34	11044.29	-1575.47	11153.79	0.00		
23100.00	90.40	359.81	11794.64	11144.28	-1575.81	11253.09	0.00		
23200.00	90.40	359.81	11793.95	11244.28	-1576.14	11352.40	0.00		
23300.00	90.40	359.81	11793.26	11344.28	-1576.47	11451.70	0.00		
23400.00	90.40	359.81	11792.56	11444.27	-1576.80	11551.00	0.00		
23500.00	90.40	359.81	11791.87	11544.27	-1577.13	11650.30	0.00		
23600.00	90.40	359.81	11791.18	11644.27	-1577.47	11749.60	0.00		
23700.00	90.40	359.81		11744.27	-1577.80	11848.90	0.00		
23800.00	90.40	359.81	11789.79	11844.26	-1578.13	11948.20	0.00		
23900.00	90.40	359.81	11789.10	11944.26	-1578.46	12047.51	0.00		
24000.00	90.40	359.81	11788.41	12044.26	-1578.79	12146.81	0.00		
24100.00	90.40	359.81	11787.71	12144.25	-1579.13	12246.11	0.00		
24200.00	90.40	359.81	11787.02		-1579.46	12345.41	0.00		
24300.00	90.40	359.81	11786.33		-1579.79	12444.71	0.00		
24400.00	90.40	359.81			-1580.12		0.00		
24500.00	90.40	359.81			-1580.46		0.00		
24600.00	90.40	359.81			-1580.79		0.00		
24700.00	90.40	359.81			-1581.12		0.00		
24800.00	90.40	359.81			-1581.45		0.00		
24841.89	90.40	359.81			-1581.59		0.00	exit	
24900.00	90.40	359.81			-1581.78		0.00	ВПI	
24921.89	90.40	359.81	11/02.00	12300.12	-1581.79	13002.25	0.00	BHL	

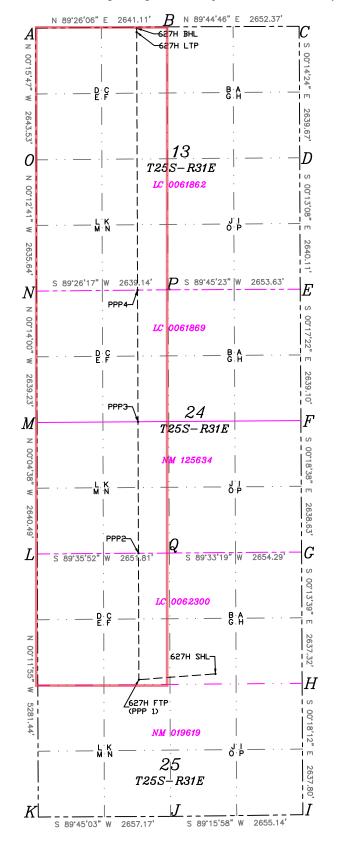
<u>C-1</u>	<u>02</u>				ls & Natura	New Mexico al Resources Depa FION DIVISIO			Rev	rised July, 2024		
	Electronically Permitting				ISLIVAI	TION DIVISION	011					
Via OCD Permitting							Submittal Type:	Amended Report				
l								Type.	☐ As Drilled	•		
				W	FILLOCAT	ION INFORMATIO	N					
API N	umber		Pool Cod			Pool Name	11					
	15-55589			220		PURPLE SA	AGE; WOL	FCAMP	(GAS)			
Prope	rty Code		Property	Name	Mongan	05 40 PPP GOV			Well Number			
OGRID	. No		Operator	Name	MURGAN	25-13 FED COM			627H Ground Level	Elevation		
OGINID	6137		operator		N ENERGY P	RODUCTION COMPA	NY, L.P.		3329.4'	2101441011		
Surfac	e Owner:	□State □	Fee □Tril	oal □Fe	deral	Mineral Owner:	□State	□Fee □	Γribal □Federal			
		I		1		face Location						
UL	Section	Township	Range	Lot	Ft. from N		Latitude		Longitude	County		
G	25	25-S	31-E		2433' N	1740' E	32.101	855	103.728673	EDDY		
		T				m Hole Location	_					
UL	Section	Township	Range	Lot	Ft. from N	·	Latitude		Longitude	County		
С	13	25-S	31-E		20' N	2030' W	32.137	520	103.733548	EDDY		
Dedicat	ed Acres	Infill or Def	ining Well	Defining	Well API Over	clapping Spacing Unit	t (Y/N)	Consolid	ation Code			
800	0.00	INFILL		30-015-	-55637							
Order	Numbers	PENDING	NSL		Well	Well setbacks are under Common Ownership: $\Box$ Yes $\Box$ No						
					Kick Of	f Point (KOP)						
UL	Section	Township	Range	Lot	Ft. from N	<del></del>	Latitude		Longitude	County		
F		25-S		200	·	, i			J	v		
Г	25	23-3	31-E		2583' N	2029' W	32.1013		-103.7337	EDDY		
UL	Section	Township	Range	Lot	First Ta	ake Point (FTP) /S Ft. from E/W	Latitude		Longitude	County		
F	25	25-S	31-E	Lot	2539' N	2030' W	32.101		103.733638	EDDY		
	100	20 0	01 L				02.101		100.100000	пррт		
T 1 T	G 1:	m 1:	D.			ake Point (LTP)	7 111 1		T '1 1	0 1		
UL C	Section 13	Township 25-S	Range 31-E	Lot	Ft. from N ₁	/S Ft. from E/W 2030' W	Latitude 32.137		Longitude 103.733548	$\begin{array}{c} {\tt County} \\ {\tt EDDY} \end{array}$		
	10	~ຍ−ຣ	91-F		100 N	2030 11	J≿.131	300	105.755540	EDDI		
S _F					Spacing	Unit Type Horizon	tal Verti	cal (	l Ground Floor Elevation:			
<u> </u>												
OPERA'	TOR CERTI	FICATIONS				SURVEYOR CERTIFIC	ATIONS					
I hereby	certify that the	e information cor			omplete to the best	I hereby certify that the we		own on this r	alat was plotted from fiel	ld notes		
					onal well, that this terest in the land	of actual surveys made by	me or under s		nd that the same is true	and		
		bottom hole loc				correct to the best of my be	elief.		. R. R. L	DEHOLOS		
mineral i	nterest, or to a	voluntary pooli		_	ory pooling order				NE V	- J		
neretofor	re entered by t	ne division.							A SEM MICH	(c) \ (s) \		
		tal well, I further			on has received the				1 / 23261			
interest in	n each tract (in	the target pool	or formation) i	n which any	part of the well's				P. 1006	)   <u>~</u>		
Airriai am			-		ng order from the				1 % / Now			
$\mathcal{A}_{i}$	my A	. Brou	M = 01/0	8/2025					150	_\R [\] /		
Signa	tun/e		Date			Signature and Seal	of Profes	ssional S	urveyor ONAL	3 /		
Amv	A. Brown									-		
	ed Name					Certificate Number	Date of	Survey				
		@DVN.CO	M			99964	10 /00					
Email	l Address					23261	10/20	<b>4</b>				

#### 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.





## Morgan 25-13 Fed Com 627H

9 5/8		surface csg in a	13 1/2 i	inch 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	0.64	1,030	9	1.07	10.08	41,200
"B"				btc				0				0
	v	u/8.4#/g mud, 30min Sfc Csg Tes	st psig: 1,500	Tail Cmt	does not	circ to sfc.	Totals:	1,030				41,200
Comparison o		to Minimum Required Cen										
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	3699	5M				1.44
urst Frac Grad	ient(s) for S	egment(s) A, B = , b All > 0	).70, OK.									
7.5.79		and incide the	0.5/0			Doolan	Enatora			Int 1		
7 5/8		casing inside the	9 5/8	Counling	laint	<u>Design</u>		Longth	D@o			Majah
Segment	#/ft	Grade	n 110	Coupling	Joint	Collapse	Burst	Length	<b>B@s</b>	a-B	a-C	Weigh
"A" <b>"B"</b>	29.70		p 110	talon sfc	2.71	1.17	1.67	11,367	2	2.80	1.96	337,60
B		//	2.504				T-4-2	11.207				0
	V	u/8.4#/g mud, 30min Sfc Csg Tes					Totals:	11,367				337,60
				led 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	416	599	1151	-48	10.50	3835	5M				0.43
			6754				sum of sx	Σ CuFt				Σ%exce
by stage % :	t yld > 1.35	29	28				797	1475				28
by stage % : Class 'C' tail cm			28			Docion Fa	797			Prod 1		28
oy stage % : Class 'C' tail cm Tail cmt 5 1/2		casing inside the		Coupling	loint	Design Fa	797	1475	R@e	Prod 1	<b>a.</b> C	
oy stage % : class 'C' tail cm Tail cmt 5 1/2 Segment	#/ft		7 <b>5/8</b>	Coupling	Joint 3 00	Collapse	797  ctors  Burst	1475 Length	B@s	а-В	a-C	Weigh
Tail cmt 5 1/2 Segment "A"		casing inside the	28	Coupling talon rd	<b>Joint</b> 3.09		797	1475 Length 24,922	<b>B@s</b> 2			<b>Weigh</b> 498,44
Tail cmt 5 1/2 Segment "A" "B"	#/ft	casing inside the	7 <b>5/8</b>			Collapse	797  ctors  Burst	Length 24,922 0	_	а-В		Weigh 498,44 0
Tail cmt 51/2 Segment "A" "B" "C"	#/ft	casing inside the	7 <b>5/8</b>			Collapse	797  ctors  Burst	Length 24,922 0	_	а-В		Weigh 498,44 0
y stage %: Class 'C' tail cm  Tail cmt 5 1/2  Segment "A" "B"	#/ft 20.00	casing inside the Grade	7 5/8 p 110			Collapse	797  ctors  Burst 2.23	Length 24,922 0 0	_	а-В		Weigh 498,44 0 0
Tail cmt 5 1/2 Segment "A" "C"	#/ft 20.00	casing inside the Grade	75/8 p 110	talon rd	3.09	Collapse 2.05	797  Ctors  Burst 2.23  Totals:	Length 24,922 0 0 0 24,922	_	а-В	3.43	Weigh 498,44 0 0 0 0 498,44
y stage %: lass 'C' tail cm  Tail cmt 5 1/2 Segment "A" "B" "C" "D"	#/ft 20.00	casing inside the Grade v/8.4#/g mud, 30min Sfc Csg Tes The cement	7 5/8 p 110 st psig: 2,592 volume(s) are intend	talon rd	3.09	Collapse 2.05	Totals:	Length 24,922 0 0 0 24,922 200	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap.
by stage %:  Class 'C' tail cm  Tail cmt 5 1/2  Segment "A" "B" "C" "D"	#/ft 20.00 v	casing inside the Grade v/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage	talon rd  led to achieve a top of Min	3.09 11167 1 Stage	Collapse 2.05  ft from su Drilling	Totals:	Length 24,922 0 0 24,922 200 Req'd	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap.
by stage %:  Class 'C' tail cm  Tail cmt 5 1/2  Segment "A" "B" "C" "D"  Hole Size	#/ft 20.00	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt	talon rd  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 0 24,922 200	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap. Min Dis
Tail cmt  5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4	#/ft 20.00 Annular Volume 0.0835	casing inside the Grade v/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage	talon rd  led to achieve a top of Min	3.09 11167 1 Stage	Collapse 2.05  ft from su Drilling	Totals:	Length 24,922 0 0 24,922 200 Req'd	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap. Min Dis
by stage %: Class 'C' tail cm  Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4	#/ft 20.00 Annular Volume 0.0835	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt	talon rd  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 24,922 200 Req'd	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap.
by stage %: Class 'C' tail cm  Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4	#/ft 20.00 Annular Volume 0.0835	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt	talon rd  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 24,922 200 Req'd	_	а-В	3.43	Weigh 498,44 0 0 0 498,44 overlap. Min Dis
by stage %: Class 'C' tail cm  Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4 Class 'C' tail cm	#/ft 20.00 v Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Ter The cement 1 Stage Cmt Sx 920	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt	talon rd  led to achieve a top of  Min  Cu Ft  1150	3.09  11167 1 Stage % Excess 25	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 24,922 200 Req'd	2	а-В	3.43	Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.43
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4 class 'C' tail cm  #N/A 0 Segment	#/ft 20.00 Annular Volume 0.0835	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438	talon rd  led to achieve a top of  Min  Cu Ft  1150  Coupling	3.09 11167 1 Stage % Excess	tt from su Drilling Mud Wt 10.50	Totals:	Length 24,922 0 0 24,922 200 Req'd BOPE	2	<b>a-B</b> 3.74	3.43	Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cr 0.43
toy stage %:  Class 'C' tail cm  Tail cmt  5 1/2  Segment  "A"  "B"  "C"  "D"  Hole  Size  6 3/4  class 'C' tail cm  4N/A  0  Segment  "A"	#/ft 20.00 v Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Ter The cement 1 Stage Cmt Sx 920	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438	talon rd  led to achieve a top of  Min  Cu Ft  1150  Coupling  0.00	3.09  11167 1 Stage % Excess 25	tt from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 24,922 200 Req'd BOPE	2	a-B 3.74	3.43 ing>	Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.43
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4 2lass 'C' tail cm #N/A 0 Segment	#/ft 20.00 v Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Ter The cement 1 Stage Cmt Sx 920	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438	talon rd  led to achieve a top of  Min  Cu Ft  1150  Coupling	3.09  11167 1 Stage % Excess 25	tt from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 24,922 200 Req'd BOPE	2	a-B 3.74	3.43 ing>	Weight 498,44 0 0 498,44 0 overlap. Min Dis Hole-Cp 0.43  Weight 0 0
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4 4 Slass 'C' tail cm	#/ft 20.00 Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  d/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920  Grade	7 5/8 p 110  st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438	talon rd  led to achieve a top of Min Cu Ft 1150  Coupling 0.00 0.00	3.09  11167 1 Stage % Excess 25  #N/A	ft from su Drilling Mud Wt 10.50	Totals: Totals: MASP  Factors Burst Totals:	Length 24,922 0 0 0 24,922 200 Req'd BOPE Length 0 0 0	2	a-B 3.74	3.43 ing> a-C	Weigl 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.43
by stage %:  Class 'C' tail cm  Tail cmt 5 1/2  Segment "A" "B" "C" "D"  Hole Size 6 3/4  Class 'C' tail cm  #N/A 0  Segment "A" "B" "B"	#/ft 20.00 Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920  Grade  //8.4#/g mud, 30min Sfc Csg Tes Cmt vol o	7 5/8 p 110  st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438  5 1/2  st psig: each below includes the	talon rd  led to achieve a top of Min Cu Ft 1150  Coupling 0.00 0.00 his csg, TOC intended	3.09  11167 1 Stage % Excess 25  #N/A	ft from su Drilling Mud Wt 10.50  Design Collapse	Totals: Totals: Factors Burst Totals: Totals: Totals: Totals:	Length 24,922 0 0 24,922 200 Req'd BOPE  Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	a-B 3.74	3.43 ing> a-C	Weigl 498,44 0 0 498,44 overlap. Min Di: Hole-Cp 0.43 Weigl 0 0 0 overlap.
by stage %: Class 'C' tail cm  Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size \$ize tail cm  #N/A 0 Segment "A" "B"  Hole "A" "B"  Hole	#/ft 20.00 Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  d/8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920  Grade	7 5/8 p 110 st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438 5 1/2 st psig: alc below includes the stage of the s	talon rd  led to achieve a top of Min Cu Ft 1150  Coupling 0.00 0.00 his csg, TOC intended Min	3.09  11167 1 Stage % Excess 25  #N/A  #N/A	ft from su Drilling Mud Wt 10.50  Design Collapse  ft from su Drilling	Totals: rface or a Calc MASP  Totals: rface or a Calc MASP	Length 24,922 0 0 24,922 200 Req'd BOPE  Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	a-B 3.74	3.43 ing> a-C	Weight 498,44 0 0 0 498,44 overlap. Min Dis Hole-Cp 0.43 Weight 0 0 0 overlap.
51/2 Segment "A" "B" "C" "D"  Hole Size 6 3/4 Class 'C' tail cm #N/A 0 Segment "A" "B"	#/ft 20.00 Annular Volume 0.0835 t yld > 1.35	casing inside the Grade  //8.4#/g mud, 30min Sfc Csg Tes The cement 1 Stage Cmt Sx 920  Grade  //8.4#/g mud, 30min Sfc Csg Tes Cmt vol o	7 5/8 p 110  st psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 1438  5 1/2  st psig: each below includes the	talon rd  led to achieve a top of Min Cu Ft 1150  Coupling 0.00 0.00 his csg, TOC intended	3.09  11167 1 Stage % Excess 25  #N/A	ft from su Drilling Mud Wt 10.50  Design Collapse	Totals: Totals: Factors Burst Totals: Totals: Totals: Totals:	Length 24,922 0 0 24,922 200 Req'd BOPE  Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2	a-B 3.74	3.43 ing> a-C	Weight 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.43

Carlsbad Field Office 1/22/2025

# Morgan 25-13 Fed Com 627H

10 3/4	su	rface csg in a	<b>14 3/4</b> i	inch hole.		Design I	actors			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	0.58	1,030	8	0.97	8.20	46,865
"B"			,	btc				0				0
	w/8 4	#/g mud, 30min Sfc Csg Test	nsig: 1 500	Tail Cmt	does not	circ to sfc.	Totals:	1,030				46,865
omparison o		Minimum Required Ceme						.,				,
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd				Min Dis
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE				Hole-Cp
14 3/4	0.5563	586	844	573	47	9.00	3699	5M				1.50
urst Frac Grac	dient(s) for Segm	ent(s) A, B = , b All > 0.	70, OK.									
8 5/8		ing inside the	10 3/4			Design I				Int 1		
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weigh
"A" <b>"B"</b>	32.00		p 110	vam sprint fj	2.05	0.65	1.11	11,367 <b>0</b>	1	1.86	1.08	363,74 <b>0</b>
	w/8.4	#/g mud, 30min Sfc Csg Test	psig: 45				Totals:	11,367				363,74
	,,	-		led to achieve a top of	0	ft from su		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	522	752	1442	-48	10.50	3835	5M				0.61
D V Tool(s):	020.	<b>V</b>	6754			10.00	sum of sx	Σ CuFt				Σ%exces
												29
	nt yld > 1.35	29	29				1004	1860				29
Class 'C' tail cm								1860				29
Tail cmt	cas	ing inside the	29 8 5/8			Design Fac	ctors		D.O.	Prod 1		
Tail cmt 5 1/2 Segment	cas #/ft		8 5/8	Coupling	Joint	Collapse	ctors Burst	Length	B@s	а-В	a-C	Weigh
Tail cmt 5 1/2 Segment "A"	cas	ing inside the		Coupling dwc/c is+	Joint 3.09		ctors	Length 24,922	<b>B@s</b> 2			<b>Weig</b> h 498,44
Tail cmt 5 1/2 Segment "A" "B"	cas #/ft	ing inside the	8 5/8			Collapse	ctors Burst	Length 24,922	_	а-В		Weigh 498,44
Tail cmt 51/2 Segment "A" "B" "C"	cas #/ft	ing inside the	8 5/8			Collapse	ctors Burst	Length 24,922 0	_	а-В		<b>Weigh</b> 498,44 0 0
Tail cmt 5 1/2 Segment "A" "B"	cas #/ft 20.00	ing inside the Grade	85/8 p 110			Collapse	etors Burst 2.23	Length 24,922 0 0	_	а-В		Weigh 498,44 0 0
Tail cmt 51/2 Segment "A" "B" "C"	cas #/ft 20.00	ing inside the Grade #/g mud, 30min Sfc Csg Test	85/8 p 110 psig: 2,592	dwc/c is+	3.09	Collapse 1.88	Etors Burst 2.23	Length 24,922 0 0 0 24,922	_	а-В		Weigh 498,44 0 0 0 498,44
5 1/2 Segment "A" "B" "C" "D"	cas #/ft 20.00	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v	85/8 p 110 psig: 2,592 volume(s) are intend	dwc/c is+	3.09	Collapse 1.88	Etors Burst 2.23  Totals:	Length 24,922 0 0 0 24,922 200	_	а-В		Weigh 498,44 0 0 0 498,44 overlap.
Tail cmt 5 1/2 Segment "A" "B" "C" "D"	cas #/ft 20.00 w/8.4	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v 1 Stage	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage	dwc/c is+	3.09 11167 1 Stage	1.88  ft from su Drilling	Totals:	Length 24,922 0 0 0 24,922 200 Req'd	_	а-В		Weigh 498,44 0 0 0 498,44 overlap.
Tail cmt  5 1/2 Segment "A" "B" "C" "D"  Hole Size	cas #/ft 20.00 w/8.4 Annular Volume	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt	dwc/c is+  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Etors Burst 2.23  Totals:	Length 24,922 0 0 0 24,922 200	_	а-В		Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 7 7/8	cas #/ft 20.00 w/8.4 Annular Volume 0.1733	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v 1 Stage	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage	dwc/c is+	3.09 11167 1 Stage	1.88  ft from su Drilling	Totals:	Length 24,922 0 0 0 24,922 200 Req'd	_	а-В		Weigh 498,44 0 0 0 498,44 overlap.
Tail cmt  5 1/2 Segment "A" "B" "C" "D"  Hole Size	cas #/ft 20.00 w/8.4 Annular Volume 0.1733	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt	dwc/c is+  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 0 24,922 200 Req'd	_	а-В		Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 7 7/8 Class 'C' tail cm	cas #/ft 20.00 w/8.4 Annular Volume 0.1733	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt	dwc/c is+  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals:	Length 24,922 0 0 0 24,922 200 Req'd	_	а-В		Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 7 7/8 Class 'C' tail cm	cas #/ft 20.00 w/8.4 Annular Volume 0.1733	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	85/8 p 110  psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt 2947	dwc/c is+  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 0 24,922 200 Req'd	2	<b>a-B</b> 3.74	3.15	Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp
Tail cmt 5 1/2 Segment "A" "B" "C" "D"  Hole Size 7 7/8 Class 'C' tail cm	cas #/ft 20.00 w/8.4 Annular Volume 0.1733	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx	8 5/8 p 110 psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt	dwc/c is+  led to achieve a top of  Min  Cu Ft	3.09 11167 1 Stage % Excess	ft from su Drilling Mud Wt	Totals: rface or a Calc MASP	Length 24,922 0 0 0 24,922 200 Req'd	2	а-В	3.15	Weigh 498,44 0 0 498,44 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	Cas #/ft 20.00 w/8.4 Annular Volume 0.1733 attyld>1.35	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898	85/8 p 110  psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt 2947	dwc/c is+	3.09 11167 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 24,922 200 Req'd BOPE	2 <ci< td=""><td>a-B 3.74</td><td>3.15</td><td>Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79</td></ci<>	a-B 3.74	3.15	Weigh 498,44 0 0 498,44 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	Cas #/ft 20.00 w/8.4 Annular Volume 0.1733 attyld>1.35	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898	85/8 p 110  psig: 2,592 rolume(s) are intend 1 Stage CuFt Cmt 2947	dwc/c is+	3.09 11167 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 0 24,922 200 Req'd BOPE	2 <ci< td=""><td>a-B 3.74</td><td>3.15</td><td>Weigh 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79</td></ci<>	a-B 3.74	3.15	Weigh 498,44 0 0 498,44 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	cas #/ft 20.00 w/8.4 Annular Volume 0.1733 it yld > 1.35	ing inside the Grade #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898	8 5/8 p 110  psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 2947	dwc/c is+	3.09 11167 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals: rface or a Calc MASP	Length 24,922 0 0 0 24,922 200 Req'd BOPE	2 <ci< td=""><td>a-B 3.74</td><td>3.15</td><td>Weigh 498,44 0 0 498,44 0 overlap. Min Dis Hole-Cp 0.79</td></ci<>	a-B 3.74	3.15	Weigh 498,44 0 0 498,44 0 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	cas #/ft 20.00 w/8.4 Annular Volume 0.1733 it yld > 1.35	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898  Grade	85/8 p 110  psig: 2,592 volume(s) are intend 1 Stage CuFt Cmt 2947  5 1/2	dwc/c is+	3.09 11167 1 Stage % Excess 24	ft from su Drilling Mud Wt 10.50	Totals:  Totals:  Tace or a  Calc MASP  Factors Burst  Totals:	Length 24,922 0 0 0 24,922 200 Req'd BOPE	2 <ci< td=""><td>a-B 3.74</td><td>3.15 ing&gt; a-C</td><td>Weight 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79 Weight 0 0</td></ci<>	a-B 3.74	3.15 ing> a-C	Weight 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79 Weight 0 0
Tail cmt  5 1/2 Segment "A" "B" "C" "D"  Hole Size 7 7/8 Class 'C' tail cm	cas #/ft 20.00 w/8.4 Annular Volume 0.1733 it yld > 1.35	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898  Grade  #/g mud, 30min Sfc Csg Test Cmt vol ca	p 110  psig: 2,592  rolume(s) are intend 1 Stage CuFt Cmt 2947  5 1/2  psig: alc below includes the	dwc/c is+	3.09  11167 1 Stage % Excess 24  #N/A	ft from su Drilling Mud Wt 10.50  Design I Collapse	Totals:  Totals:  Tace or a  Calc MASP  Factors Burst  Totals:	Length 24,922 0 0 0 24,922 200 Req'd BOPE  Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 <ci< td=""><td>a-B 3.74</td><td>3.15 ing&gt; a-C</td><td>Weight 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79  Weight 0 0 overlap.</td></ci<>	a-B 3.74	3.15 ing> a-C	Weight 498,44 0 0 498,44 overlap. Min Dis Hole-Cp 0.79  Weight 0 0 overlap.
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"	Cas #/ft 20.00 w/8.4 Annular Volume 0.1733 at yld > 1.35 #/ft	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898  Grade  #/g mud, 30min Sfc Csg Test Cmt vol ca 1 Stage	p 110  psig: 2,592  rolume(s) are intend 1 Stage CuFt Cmt 2947  5 1/2  psig: alc below includes the stage of	dwc/c is+  ded to achieve a top of  Min  Cu Ft  2384  Coupling  0.00  0.00  his csg, TOC intended  Min	3.09  11167 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 24,922 0 0 0 24,922 200 Req'd BOPE	2 <ci< td=""><td>a-B 3.74</td><td>3.15 ing&gt; a-C</td><td>Weigh 498,44 0 0 498,44 overlap. Min Dish Hole-Cp 0.79 Weigh 0 0</td></ci<>	a-B 3.74	3.15 ing> a-C	Weigh 498,44 0 0 498,44 overlap. Min Dish Hole-Cp 0.79 Weigh 0 0
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"	cas #/ft 20.00 w/8.4 Annular Volume 0.1733 atyld>1.35	ing inside the Grade  #/g mud, 30min Sfc Csg Test The cement v 1 Stage Cmt Sx 1898  Grade  #/g mud, 30min Sfc Csg Test Cmt vol ca	p 110  psig: 2,592  rolume(s) are intend 1 Stage CuFt Cmt 2947  5 1/2  psig: alc below includes the	dwc/c is+  ded to achieve a top of  Min  Cu Ft  2384  Coupling  0.00  0.00  his csg, TOC intended	3.09  11167 1 Stage % Excess 24  #N/A	ft from su Drilling Mud Wt 10.50  Design I Collapse	Totals: rface or a Calc MASP  Totals: Totals: rface or a	Length 24,922 0 0 0 24,922 200 Req'd BOPE  Length 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 <ci< td=""><td>a-B 3.74</td><td>3.15 ing&gt; a-C</td><td>Weig 498,4 0 0 498,4 overlap. Min Di Hole-C 0.79  Weig 0 0 overlap. Min Di</td></ci<>	a-B 3.74	3.15 ing> a-C	Weig 498,4 0 0 498,4 overlap. Min Di Hole-C 0.79  Weig 0 0 overlap. Min Di

Carlsbad Field Office 1/22/2025 Sante Fe Main Office Phone: (505) 476-3441

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

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

CONDITIONS

Action 424080

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	424080
	Action Type:
	[C-103] NOI Change of Plans (C-103A)

## CONDITIONS

С	reated By	Condition	Condition Date
١	ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	4/1/2025