

Submit a Copy To Appropriate District
Office
District I – (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II – (575) 748-1283
811 S. First St., Artesia, NM 88210
District III – (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV – (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-025-51409
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Roof Pizza Fee
8. Well Number 4H
9. OGRID Number 371682
10. Pool name or Wildcat Bronco; San Andres, South
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3801' GR

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
STEWARD ENERGY II, LLC

3. Address of Operator
2600 Dallas Parkway, Frisco, TX 75034

4. Well Location
Unit Letter C : 693 feet from the NORTH line and 2328 feet from the WEST line
Section 27 Township 13S Range 38E NMPM County LEA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>
DOWNHOLE COMMINGLE <input type="checkbox"/>	P AND A <input type="checkbox"/>
CLOSED-LOOP SYSTEM <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>
OTHER: <input type="checkbox"/>	OTHER: <input type="checkbox"/>

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Steward Energy II, LLC respectfully requests permission to change the surf hole location from Unit B, Sec 27-T13S-R38E, 705 FNL 2445 FEL to Unit C, Sec 27-T13S-R38E, 693 FNL 2328 FWL. Attached is the new Drill Plan, Directional Drilg Plan and C-102 plat.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Ryan DeLong TITLE VP - Planning & Regulatory DATE 4/3/2024

Type or print name Ryan DeLong E-mail address: rdelong@titusoil.com PHONE: 405-664-5188

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-51409		Pool Code 7500	Pool Name Bronco; San Andres, South	
Property Code 331664	Property Name ROOF PIZZA FEE		Well Number #4H	
OGRID No. 371682	Operator Name STEWARD ENERGY II, LLC		Elevation 3801'	

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	13 S	38 E		693	NORTH	2328	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	22	13 S	38 E		100	NORTH	2100	WEST	LEA

Dedicated Acres 320.00	Joint or Infill	Consolidation Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

Map details: X = 920662' Y = 796876', X = 920695' Y = 794237', X = 920728' Y = 791597', X = 923298' Y = 796908', X = 923336' Y = 794272', X = 923374' Y = 791637'. Distances: 100', 2100', 2107', 2328', 693', 100'. Bearings: AZ = 359.21°, 5073.2', AZ = 343.70°, 823.2'.

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Ryan DeLong* Date: 4/3/2024

Printed Name: Ryan DeLong

E-mail Address: rdelong@titusoil.com

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: FEBRUARY 01, 2024

Signature and Seal of Professional Surveyor: *Matthew B. Tomerlin*

Job No.: 23-11-3774
MATTHEW B. TOMERLIN, N.M.P.L.S.
Certificate Number 23203

NAD 83 (SHL) 693' FNL & 2328' FWL
LATITUDE = 33.168013°
LONGITUDE = -103.085875°
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 33.167905°
LONGITUDE = -103.085376°
STATE PLANE NAD 83 (N.M. EAST)
N: 790938.47' E: 923064.68'
STATE PLANE NAD 27 (N.M. EAST)
N: 790875.79' E: 881888.73'

NAD 83 (FTP) 100' FSL & 2107' FWL
LATITUDE = 33.170192°
LONGITUDE = -103.086599°
NAD 27 (FTP)
LATITUDE = 33.170084°
LONGITUDE = -103.086100°
STATE PLANE NAD 83 (N.M. EAST)
N: 791728.56' E: 922833.71'
STATE PLANE NAD 27 (N.M. EAST)
N: 791665.85' E: 881657.76'

NAD 83 (LTP/BHL) 100' FNL & 2100' FWL
LATITUDE = 33.184133°
LONGITUDE = -103.086631°
NAD 27 (LTP/BHL)
LATITUDE = 33.184025°
LONGITUDE = -103.086132°
STATE PLANE NAD 83 (N.M. EAST)
N: 796801.31' E: 922763.44'
STATE PLANE NAD 27 (N.M. EAST)
N: 796738.46' E: 881587.52'

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
SECTION 22	5073.24'
TOTAL	5073.24'

- © FND. U.S.G.L.O. MON. UNLESS OTHERWISE NOTED
- ☒ CALC. CORNER
- SHL/ KOP/ FTP / PPP/ LTP / BHL
- STATE OIL & GAS LEASE
- BLM OIL & GAS LEASE
- HORIZONTAL SPACING UNIT

NOTES

1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001), NAVD 88.
2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING FEBRUARY, 2024. CERTIFICATION OF THIS DOCUMENT IS ONLY TO THE LOCATION OF THIS EASEMENT IN RELATION TO RECORDED MONUMENT OF DEEDS PROVIDED BY THE CLIENT.
3. ELEVATIONS MSL, DERIVED FROM G.N.S.S. OBSERVATION AND DERIVED FROM SAID ON-THE-GROUND SURVEY.

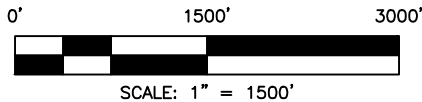
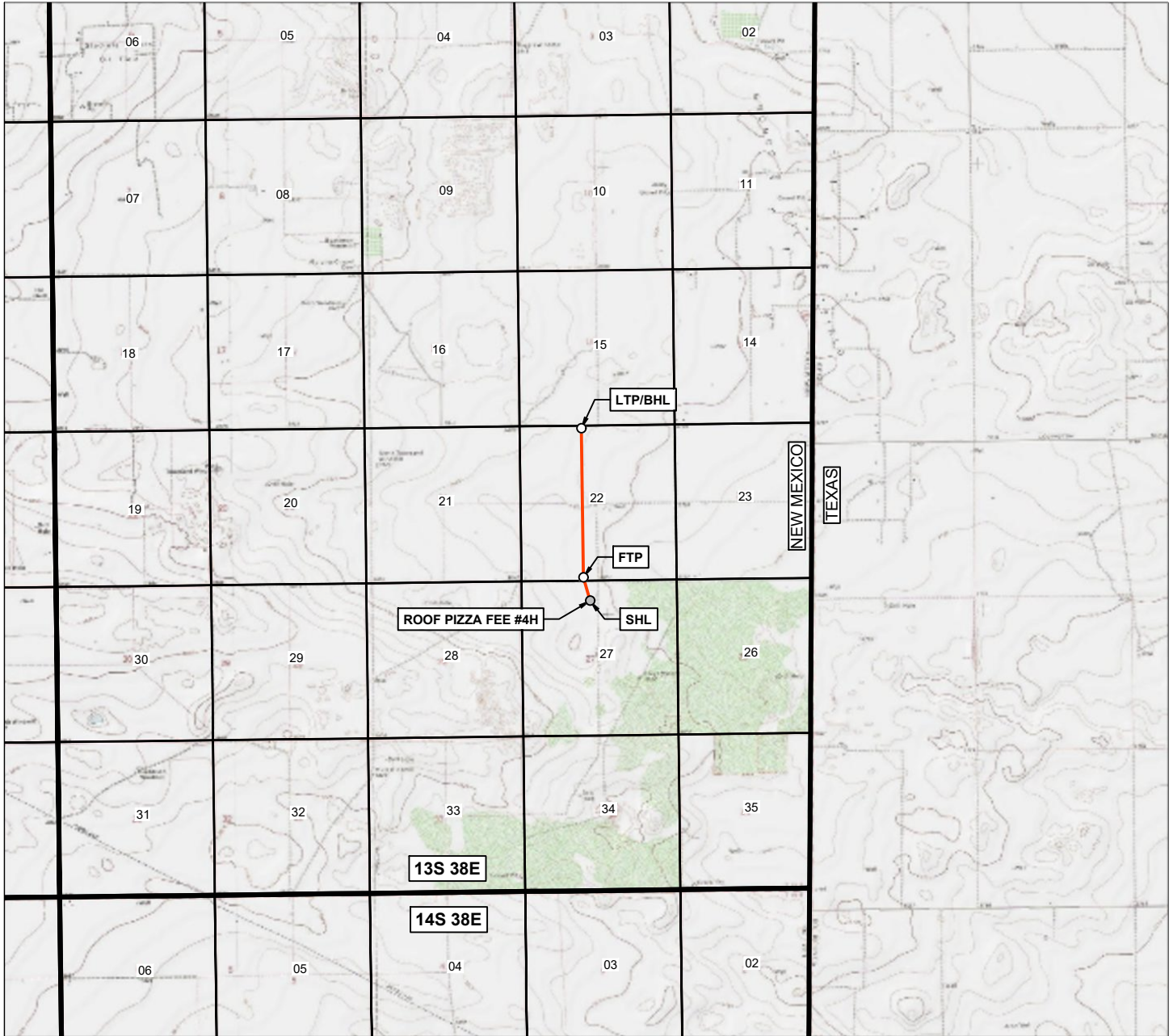


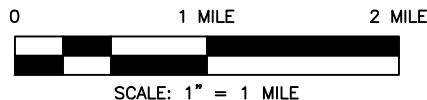
EXHIBIT 1 LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME AND WELL NUMBER: ROOF PIZZA FEE #4H
 LATITUDE: N 33.168013 LONGITUDE: W 103.085875 ELEVATION: 3801'
 DESCRIPTION: 693' FNL & 2328' FWL



Situated in
 SECTION 27, TOWNSHIP 13 SOUTH, RANGE 38 EAST
 LEA COUNTY, NEW MEXICO



LEGEND

- SHL
- KOP/FTP/PPP/LTP/BHL
- PROPOSED WELL BORE
- SECTION LINE
- TOWNSHIP/RANGE LINE

DATAPoint
 SURVEYING AND MAPPING

12450 Network Blvd. - Suite 155
 San Antonio, TX 78249
 Phone: 726-777-4240
 Firm No. 10194585

DRAWN BY: JW

DATE : 02/01/2024

REV.

CHECKED BY: JH

DATE : 02/01/2024

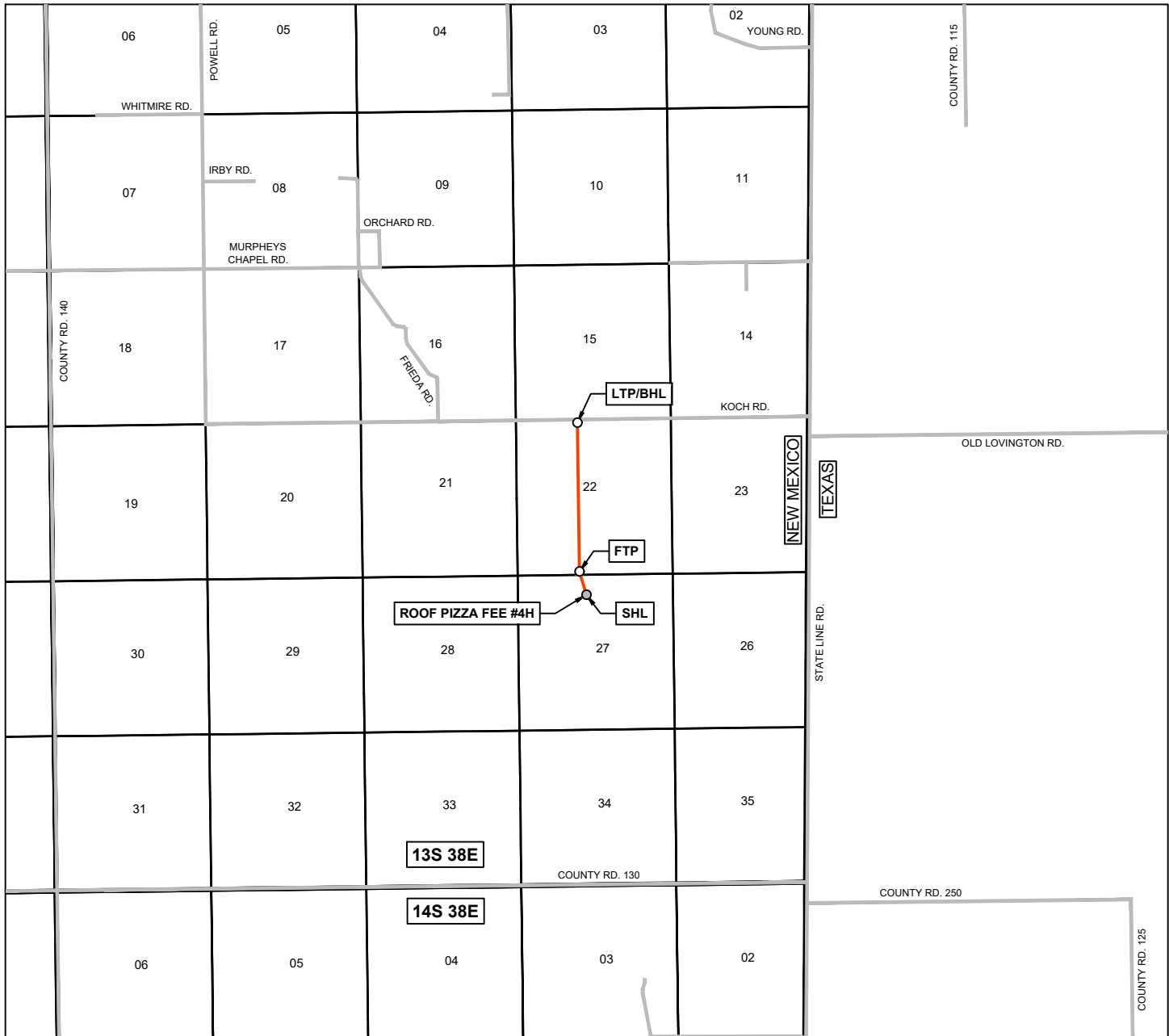
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AFE #

PROJECT ID: 23-11-3774

PAGE 1 OF 1

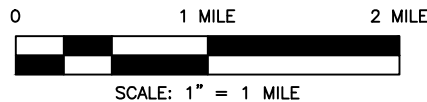
EXHIBIT 2 VICINITY MAP



LEASE NAME AND WELL NUMBER: ROOF PIZZA FEE #4H
 LATITUDE: N 33.168013 LONGITUDE: W 103.085875 ELEVATION: 3801'
 DESCRIPTION: 693' FNL & 2328' FWL

LEGEND

- SHL
- KOP/FTP/PPP/LTP/BHL
- EXISTING ROADS
- PROPOSED WELL BORE
- SECTION LINE
- TOWNSHIP/RANGE LINE



Situated in
 SECTION 27, TOWNSHIP 13 SOUTH, RANGE 38 EAST
 LEA COUNTY, NEW MEXICO

DATAPoint
 SURVEYING AND MAPPING

12450 Network Blvd. - Suite 155
 San Antonio, TX 78249
 Phone: 726-777-4240
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AFE #

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PAGE 1 OF 1

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC
Roof Pizza Fee 4H
Wellbore #1
Plan #1



SURFACE LOCATION

US State Plane 1983
 New Mexico Eastern Zone
 Elevation: GL 3801' + 19' RKB @ 3820.00ft

Northing
 790938.47

Easting
 923064.68

Latitude
 33.168°N

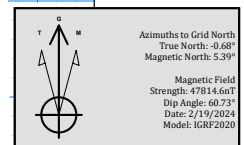
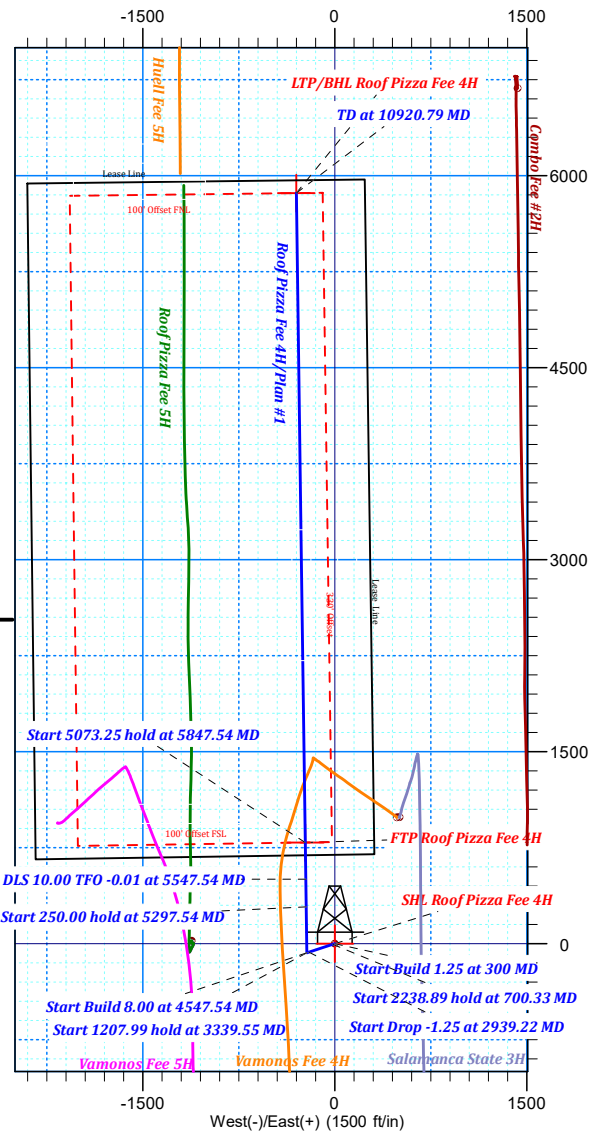
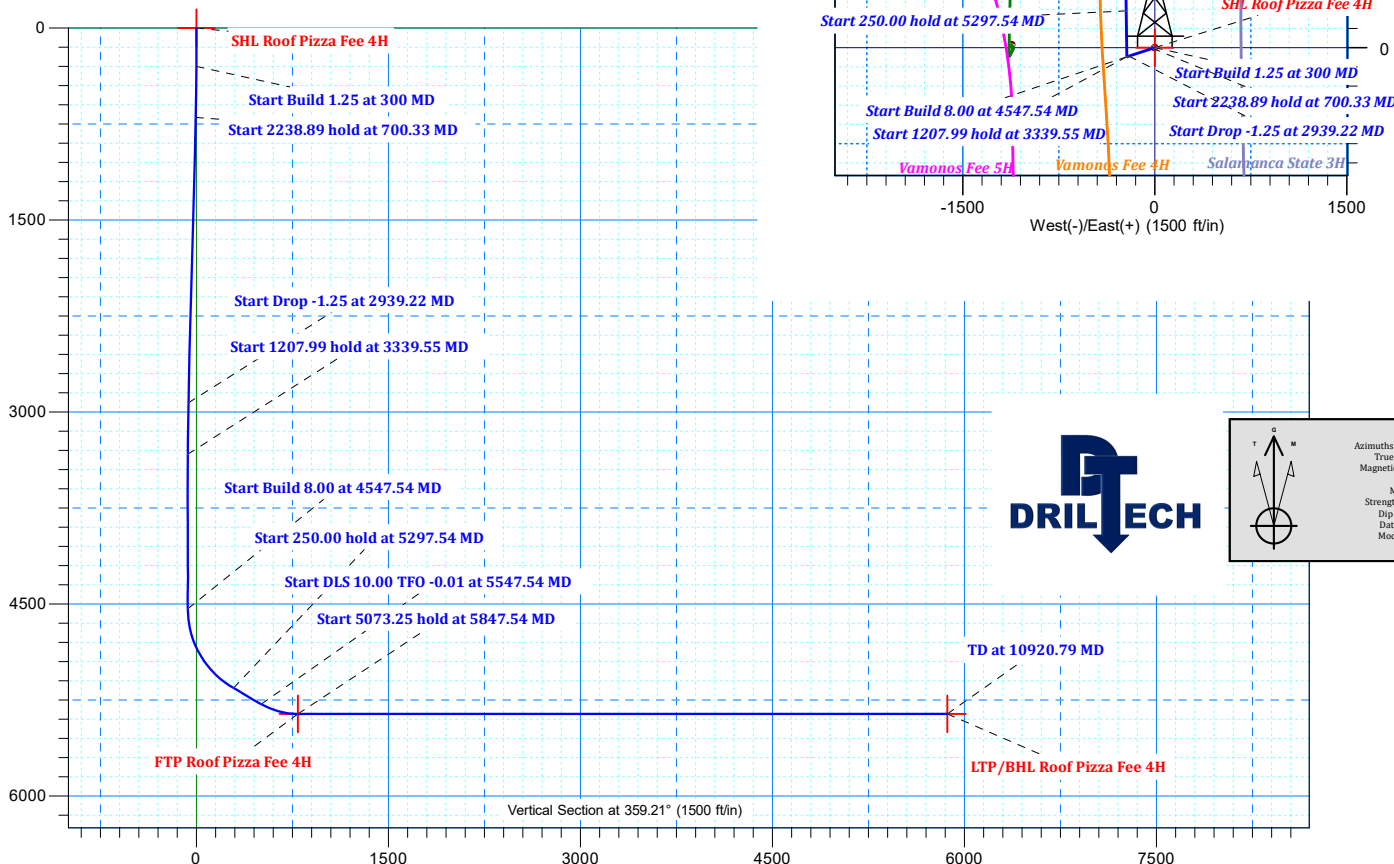
Longitude
 103.086°W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL Roof Pizza Fee 4H	0.00	0.00	0.00	790938.47	923064.68
FTP Roof Pizza Fee 4H	5360.00	790.09	-230.97	791728.56	922833.71
LTP/BHL Roof Pizza Fee 4H	5360.00	5862.85	-301.24	796801.31	922763.44

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
700.33	5.00	252.06	699.82	-5.38	-16.62	1.25	-5.15
2939.22	5.00	252.06	2930.18	-65.53	-202.42	0.00	-62.73
3339.55	0.00	0.00	3330.00	-70.91	-219.04	1.25	-67.88
4547.54	0.00	0.00	4537.99	-70.91	-219.04	0.00	-67.88
5297.54	60.00	359.21	5158.24	287.16	-223.98	8.00	290.22
5547.54	60.00	359.21	5283.24	503.64	-226.97	0.00	506.72
5847.54	90.00	359.21	5360.00	790.09	-230.93	10.00	793.20
10920.79	90.00	359.21	5360.00	5862.85	-301.24	0.00	5866.45



Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Roof Pizza Fee 4H

Roof Pizza Fee 4H

Wellbore #1

Plan: Plan #1

Standard Planning Report

19 February, 2024

Planning Report

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (NAD 83) NM East Zone		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Roof Pizza Fee 4H			
Site Position:		Northing:	790,938.47 usft	Latitude: 33.168°N
From:	Map	Easting:	923,064.68 usft	Longitude: 103.086°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	

Well	Roof Pizza Fee 4H			
Well Position	+N/-S	0.00 ft	Northing:	790,938.47 usft
	+E/-W	0.00 ft	Easting:	923,064.68 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft
Grid Convergence:		0.68 °	Ground Level:	3,801.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/19/2024	6.07	60.73	47,814.56190552

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.21

Plan Survey Tool Program		Date	2/19/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	10,920.79	Plan #1 (Wellbore #1)	MWD	
			MWD - Standard		

Planning Report

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.33	5.00	252.06	699.82	-5.38	-16.62	1.25	1.25	0.00	252.06	
2,939.22	5.00	252.06	2,930.18	-65.53	-202.42	0.00	0.00	0.00	0.00	
3,339.55	0.00	0.00	3,330.00	-70.91	-219.04	1.25	-1.25	0.00	180.00	
4,547.54	0.00	0.00	4,537.99	-70.91	-219.04	0.00	0.00	0.00	0.00	
5,297.54	60.00	359.21	5,158.24	287.16	-223.98	8.00	8.00	0.00	359.21	
5,547.54	60.00	359.21	5,283.24	503.64	-226.97	0.00	0.00	0.00	0.00	
5,847.54	90.00	359.21	5,360.00	790.09	-230.93	10.00	10.00	0.00	-0.01	
10,920.79	90.00	359.21	5,360.00	5,862.85	-301.24	0.00	0.00	0.00	0.00	LTP/BHL Roof Pizza f

Planning Report

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.25 at 300 MD									
400.00	1.25	252.06	399.99	-0.34	-1.04	-0.32	1.25	1.25	0.00
500.00	2.50	252.06	499.94	-1.34	-4.15	-1.29	1.25	1.25	0.00
600.00	3.75	252.06	599.79	-3.02	-9.34	-2.89	1.25	1.25	0.00
700.00	5.00	252.06	699.49	-5.37	-16.59	-5.14	1.25	1.25	0.00
700.33	5.00	252.06	699.82	-5.38	-16.62	-5.15	1.25	1.25	0.00
Start 2238.89 hold at 700.33 MD									
800.00	5.00	252.06	799.11	-8.06	-24.89	-7.71	0.00	0.00	0.00
900.00	5.00	252.06	898.73	-10.74	-33.19	-10.29	0.00	0.00	0.00
1,000.00	5.00	252.06	998.35	-13.43	-41.49	-12.86	0.00	0.00	0.00
1,100.00	5.00	252.06	1,097.97	-16.12	-49.79	-15.43	0.00	0.00	0.00
1,200.00	5.00	252.06	1,197.59	-18.80	-58.09	-18.00	0.00	0.00	0.00
1,300.00	5.00	252.06	1,297.21	-21.49	-66.39	-20.57	0.00	0.00	0.00
1,400.00	5.00	252.06	1,396.82	-24.18	-74.69	-23.14	0.00	0.00	0.00
1,500.00	5.00	252.06	1,496.44	-26.86	-82.98	-25.72	0.00	0.00	0.00
1,600.00	5.00	252.06	1,596.06	-29.55	-91.28	-28.29	0.00	0.00	0.00
1,700.00	5.00	252.06	1,695.68	-32.24	-99.58	-30.86	0.00	0.00	0.00
1,800.00	5.00	252.06	1,795.30	-34.92	-107.88	-33.43	0.00	0.00	0.00
1,900.00	5.00	252.06	1,894.92	-37.61	-116.18	-36.00	0.00	0.00	0.00
2,000.00	5.00	252.06	1,994.54	-40.30	-124.48	-38.58	0.00	0.00	0.00
2,100.00	5.00	252.06	2,094.16	-42.98	-132.78	-41.15	0.00	0.00	0.00
2,200.00	5.00	252.06	2,193.78	-45.67	-141.08	-43.72	0.00	0.00	0.00
2,300.00	5.00	252.06	2,293.39	-48.35	-149.37	-46.29	0.00	0.00	0.00
2,400.00	5.00	252.06	2,393.01	-51.04	-157.67	-48.86	0.00	0.00	0.00
2,500.00	5.00	252.06	2,492.63	-53.73	-165.97	-51.43	0.00	0.00	0.00
2,600.00	5.00	252.06	2,592.25	-56.41	-174.27	-54.01	0.00	0.00	0.00
2,700.00	5.00	252.06	2,691.87	-59.10	-182.57	-56.58	0.00	0.00	0.00
2,800.00	5.00	252.06	2,791.49	-61.79	-190.87	-59.15	0.00	0.00	0.00
2,900.00	5.00	252.06	2,891.11	-64.47	-199.17	-61.72	0.00	0.00	0.00
2,939.22	5.00	252.06	2,930.18	-65.53	-202.42	-62.73	0.00	0.00	0.00
Start Drop -1.25 at 2939.22 MD									
3,000.00	4.24	252.06	2,990.76	-67.04	-207.08	-64.17	1.25	-1.25	0.00
3,100.00	2.99	252.06	3,090.56	-68.98	-213.09	-66.04	1.25	-1.25	0.00
3,200.00	1.74	252.06	3,190.47	-70.25	-217.02	-67.25	1.25	-1.25	0.00
3,300.00	0.49	252.06	3,290.45	-70.85	-218.88	-67.83	1.25	-1.25	0.00
3,339.55	0.00	0.00	3,330.00	-70.91	-219.04	-67.88	1.25	-1.25	0.00
Start 1207.99 hold at 3339.55 MD									
3,400.00	0.00	0.00	3,390.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
3,500.00	0.00	0.00	3,490.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
3,600.00	0.00	0.00	3,590.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
3,700.00	0.00	0.00	3,690.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
3,800.00	0.00	0.00	3,790.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
3,900.00	0.00	0.00	3,890.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,000.00	0.00	0.00	3,990.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,100.00	0.00	0.00	4,090.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,200.00	0.00	0.00	4,190.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,300.00	0.00	0.00	4,290.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,400.00	0.00	0.00	4,390.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,500.00	0.00	0.00	4,490.45	-70.91	-219.04	-67.88	0.00	0.00	0.00
4,547.54	0.00	0.00	4,537.99	-70.91	-219.04	-67.88	0.00	0.00	0.00

Planning Report

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
Start Build 8.00 at 4547.54 MD									
4,600.00	4.20	359.21	4,590.40	-68.99	-219.07	-65.96	8.00	8.00	0.00
4,700.00	12.20	359.21	4,689.30	-54.74	-219.27	-51.71	8.00	8.00	0.00
4,800.00	20.20	359.21	4,785.25	-26.87	-219.65	-23.84	8.00	8.00	0.00
4,900.00	28.20	359.21	4,876.39	14.08	-220.22	17.11	8.00	8.00	0.00
5,000.00	36.20	359.21	4,960.95	67.31	-220.95	70.35	8.00	8.00	0.00
5,100.00	44.20	359.21	5,037.27	131.79	-221.84	134.84	8.00	8.00	0.00
5,200.00	52.20	359.21	5,103.87	206.27	-222.87	209.32	8.00	8.00	0.00
5,297.54	60.00	359.21	5,158.24	287.16	-223.98	290.22	8.00	8.00	0.00
Start 250.00 hold at 5297.54 MD									
5,300.00	60.00	359.21	5,159.46	289.29	-224.01	292.35	0.00	0.00	0.00
5,400.00	60.00	359.21	5,209.46	375.88	-225.20	378.95	0.00	0.00	0.00
5,500.00	60.00	359.21	5,259.46	462.47	-226.40	465.55	0.00	0.00	0.00
5,547.54	60.00	359.21	5,283.24	503.64	-226.97	506.72	0.00	0.00	0.00
Start DLS 10.00 TFO -0.01 at 5547.54 MD									
5,600.00	65.25	359.21	5,307.35	550.21	-227.61	553.29	10.00	10.00	0.00
5,700.00	75.25	359.21	5,341.11	644.19	-228.91	647.29	10.00	10.00	0.00
5,800.00	85.25	359.21	5,358.03	742.61	-230.27	745.72	10.00	10.00	0.00
5,847.54	90.00	359.21	5,360.00	790.09	-230.93	793.20	10.00	10.00	0.00
Start 5073.25 hold at 5847.54 MD									
5,900.00	90.00	359.21	5,360.00	842.55	-231.65	845.66	0.00	0.00	0.00
6,000.00	90.00	359.21	5,360.00	942.54	-233.04	945.66	0.00	0.00	0.00
6,100.00	90.00	359.21	5,360.00	1,042.53	-234.43	1,045.66	0.00	0.00	0.00
6,200.00	90.00	359.21	5,360.00	1,142.52	-235.81	1,145.66	0.00	0.00	0.00
6,300.00	90.00	359.21	5,360.00	1,242.51	-237.20	1,245.66	0.00	0.00	0.00
6,400.00	90.00	359.21	5,360.00	1,342.50	-238.58	1,345.66	0.00	0.00	0.00
6,500.00	90.00	359.21	5,360.00	1,442.49	-239.97	1,445.66	0.00	0.00	0.00
6,600.00	90.00	359.21	5,360.00	1,542.48	-241.36	1,545.66	0.00	0.00	0.00
6,700.00	90.00	359.21	5,360.00	1,642.47	-242.74	1,645.66	0.00	0.00	0.00
6,800.00	90.00	359.21	5,360.00	1,742.46	-244.13	1,745.66	0.00	0.00	0.00
6,900.00	90.00	359.21	5,360.00	1,842.45	-245.51	1,845.66	0.00	0.00	0.00
7,000.00	90.00	359.21	5,360.00	1,942.44	-246.90	1,945.66	0.00	0.00	0.00
7,100.00	90.00	359.21	5,360.00	2,042.43	-248.29	2,045.66	0.00	0.00	0.00
7,200.00	90.00	359.21	5,360.00	2,142.42	-249.67	2,145.66	0.00	0.00	0.00
7,300.00	90.00	359.21	5,360.00	2,242.41	-251.06	2,245.66	0.00	0.00	0.00
7,400.00	90.00	359.21	5,360.00	2,342.40	-252.44	2,345.66	0.00	0.00	0.00
7,500.00	90.00	359.21	5,360.00	2,442.39	-253.83	2,445.66	0.00	0.00	0.00
7,600.00	90.00	359.21	5,360.00	2,542.38	-255.22	2,545.66	0.00	0.00	0.00
7,700.00	90.00	359.21	5,360.00	2,642.38	-256.60	2,645.66	0.00	0.00	0.00
7,800.00	90.00	359.21	5,360.00	2,742.37	-257.99	2,745.66	0.00	0.00	0.00
7,900.00	90.00	359.21	5,360.00	2,842.36	-259.37	2,845.66	0.00	0.00	0.00
8,000.00	90.00	359.21	5,360.00	2,942.35	-260.76	2,945.66	0.00	0.00	0.00
8,100.00	90.00	359.21	5,360.00	3,042.34	-262.15	3,045.66	0.00	0.00	0.00
8,200.00	90.00	359.21	5,360.00	3,142.33	-263.53	3,145.66	0.00	0.00	0.00
8,300.00	90.00	359.21	5,360.00	3,242.32	-264.92	3,245.66	0.00	0.00	0.00
8,400.00	90.00	359.21	5,360.00	3,342.31	-266.30	3,345.66	0.00	0.00	0.00
8,500.00	90.00	359.21	5,360.00	3,442.30	-267.69	3,445.66	0.00	0.00	0.00
8,600.00	90.00	359.21	5,360.00	3,542.29	-269.08	3,545.66	0.00	0.00	0.00
8,700.00	90.00	359.21	5,360.00	3,642.28	-270.46	3,645.66	0.00	0.00	0.00
8,800.00	90.00	359.21	5,360.00	3,742.27	-271.85	3,745.66	0.00	0.00	0.00
8,900.00	90.00	359.21	5,360.00	3,842.26	-273.23	3,845.66	0.00	0.00	0.00
9,000.00	90.00	359.21	5,360.00	3,942.25	-274.62	3,945.66	0.00	0.00	0.00
9,100.00	90.00	359.21	5,360.00	4,042.24	-276.01	4,045.66	0.00	0.00	0.00

Planning Report

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,200.00	90.00	359.21	5,360.00	4,142.23	-277.39	4,145.66	0.00	0.00	0.00	
9,300.00	90.00	359.21	5,360.00	4,242.22	-278.78	4,245.66	0.00	0.00	0.00	
9,400.00	90.00	359.21	5,360.00	4,342.21	-280.16	4,345.66	0.00	0.00	0.00	
9,500.00	90.00	359.21	5,360.00	4,442.20	-281.55	4,445.66	0.00	0.00	0.00	
9,600.00	90.00	359.21	5,360.00	4,542.19	-282.93	4,545.66	0.00	0.00	0.00	
9,700.00	90.00	359.21	5,360.00	4,642.18	-284.32	4,645.66	0.00	0.00	0.00	
9,800.00	90.00	359.21	5,360.00	4,742.17	-285.71	4,745.66	0.00	0.00	0.00	
9,900.00	90.00	359.21	5,360.00	4,842.16	-287.09	4,845.66	0.00	0.00	0.00	
10,000.00	90.00	359.21	5,360.00	4,942.15	-288.48	4,945.66	0.00	0.00	0.00	
10,100.00	90.00	359.21	5,360.00	5,042.14	-289.86	5,045.66	0.00	0.00	0.00	
10,200.00	90.00	359.21	5,360.00	5,142.14	-291.25	5,145.66	0.00	0.00	0.00	
10,300.00	90.00	359.21	5,360.00	5,242.13	-292.64	5,245.66	0.00	0.00	0.00	
10,400.00	90.00	359.21	5,360.00	5,342.12	-294.02	5,345.66	0.00	0.00	0.00	
10,500.00	90.00	359.21	5,360.00	5,442.11	-295.41	5,445.66	0.00	0.00	0.00	
10,600.00	90.00	359.21	5,360.00	5,542.10	-296.79	5,545.66	0.00	0.00	0.00	
10,700.00	90.00	359.21	5,360.00	5,642.09	-298.18	5,645.66	0.00	0.00	0.00	
10,800.00	90.00	359.21	5,360.00	5,742.08	-299.57	5,745.66	0.00	0.00	0.00	
10,900.00	90.00	359.21	5,360.00	5,842.07	-300.95	5,845.66	0.00	0.00	0.00	
10,920.79	90.00	359.21	5,360.00	5,862.85	-301.24	5,866.45	0.00	0.00	0.00	
TD at 10920.79 MD										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL Roof Pizza Fee 4H	0.00	0.00	0.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
- plan hits target center									
- Point									
LTP/BHL Roof Pizza Fee	0.00	0.01	5,360.00	5,862.85	-301.24	796,801.31	922,763.44	33.184°N	103.087°W
- plan hits target center									
- Point									
FTP Roof Pizza Fee 4H	0.00	0.00	5,360.00	790.09	-230.97	791,728.56	922,833.71	33.170°N	103.087°W
- plan misses target center by 0.04ft at 5847.54ft MD (5360.00 TVD, 790.09 N, -230.93 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
300.00	300.00	0.00	0.00	Start Build 1.25 at 300 MD	
700.33	699.82	-5.38	-16.62	Start 2238.89 hold at 700.33 MD	
2,939.22	2,930.18	-65.53	-202.42	Start Drop -1.25 at 2939.22 MD	
3,339.55	3,330.00	-70.91	-219.04	Start 1207.99 hold at 3339.55 MD	
4,547.54	4,537.99	-70.91	-219.04	Start Build 8.00 at 4547.54 MD	
5,297.54	5,158.24	287.16	-223.98	Start 250.00 hold at 5297.54 MD	
5,547.54	5,283.24	503.64	-226.97	Start DLS 10.00 TFO -0.01 at 5547.54 MD	
5,847.54	5,360.00	790.09	-230.93	Start 5073.25 hold at 5847.54 MD	
10,920.79	5,360.00	5,862.85	-301.24	TD at 10920.79 MD	

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Roof Pizza Fee 4H

Roof Pizza Fee 4H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

19 February, 2024

Planning Report - Geographic

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Project	Lea County, NM (NAD 83) NM East Zone		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Roof Pizza Fee 4H				
Site Position:	Northing:	790,938.47 usft	Latitude:	33.168°N	
From:	Map	Easting:	923,064.68 usft	Longitude:	103.086°W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in		

Well	Roof Pizza Fee 4H					
Well Position	+N/-S	0.00 ft	Northing:	790,938.47 usft	Latitude:	33.168°N
	+E/-W	0.00 ft	Easting:	923,064.68 usft	Longitude:	103.086°W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	3,801.00 ft	
Grid Convergence:	0.68 °					

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/19/2024	6.07	60.73	47,814.56190552

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	359.21

Plan Survey Tool Program	Date	2/19/2024		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,920.79 Plan #1 (Wellbore #1)	MWD	
			MWD - Standard	

Planning Report - Geographic

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.33	5.00	252.06	699.82	-5.38	-16.62	1.25	1.25	0.00	252.06	
2,939.22	5.00	252.06	2,930.18	-65.53	-202.42	0.00	0.00	0.00	0.00	
3,339.55	0.00	0.00	3,330.00	-70.91	-219.04	1.25	-1.25	0.00	180.00	
4,547.54	0.00	0.00	4,537.99	-70.91	-219.04	0.00	0.00	0.00	0.00	
5,297.54	60.00	359.21	5,158.24	287.16	-223.98	8.00	8.00	0.00	359.21	
5,547.54	60.00	359.21	5,283.24	503.64	-226.97	0.00	0.00	0.00	0.00	
5,847.54	90.00	359.21	5,360.00	790.09	-230.93	10.00	10.00	0.00	-0.01	
10,920.79	90.00	359.21	5,360.00	5,862.85	-301.24	0.00	0.00	0.00	0.00	LTP/BHL Roof Pizza f

Planning Report - Geographic

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
100.00	0.00	0.00	100.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
200.00	0.00	0.00	200.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
300.00	0.00	0.00	300.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
Start Build 1.25 at 300 MD									
400.00	1.25	252.06	399.99	-0.34	-1.04	790,938.13	923,063.64	33.168°N	103.086°W
500.00	2.50	252.06	499.94	-1.34	-4.15	790,937.12	923,060.53	33.168°N	103.086°W
600.00	3.75	252.06	599.79	-3.02	-9.34	790,935.45	923,055.34	33.168°N	103.086°W
700.00	5.00	252.06	699.49	-5.37	-16.59	790,933.10	923,048.09	33.168°N	103.086°W
700.33	5.00	252.06	699.82	-5.38	-16.62	790,933.09	923,048.06	33.168°N	103.086°W
Start 2238.89 hold at 700.33 MD									
800.00	5.00	252.06	799.11	-8.06	-24.89	790,930.41	923,039.79	33.168°N	103.086°W
900.00	5.00	252.06	898.73	-10.74	-33.19	790,927.72	923,031.49	33.168°N	103.086°W
1,000.00	5.00	252.06	998.35	-13.43	-41.49	790,925.04	923,023.19	33.168°N	103.086°W
1,100.00	5.00	252.06	1,097.97	-16.12	-49.79	790,922.35	923,014.89	33.168°N	103.086°W
1,200.00	5.00	252.06	1,197.59	-18.80	-58.09	790,919.66	923,006.59	33.168°N	103.086°W
1,300.00	5.00	252.06	1,297.21	-21.49	-66.39	790,916.98	922,998.29	33.168°N	103.086°W
1,400.00	5.00	252.06	1,396.82	-24.18	-74.69	790,914.29	922,990.00	33.168°N	103.086°W
1,500.00	5.00	252.06	1,496.44	-26.86	-82.98	790,911.60	922,981.70	33.168°N	103.086°W
1,600.00	5.00	252.06	1,596.06	-29.55	-91.28	790,908.92	922,973.40	33.168°N	103.086°W
1,700.00	5.00	252.06	1,695.68	-32.24	-99.58	790,906.23	922,965.10	33.168°N	103.086°W
1,800.00	5.00	252.06	1,795.30	-34.92	-107.88	790,903.55	922,956.80	33.168°N	103.086°W
1,900.00	5.00	252.06	1,894.92	-37.61	-116.18	790,900.86	922,948.50	33.168°N	103.086°W
2,000.00	5.00	252.06	1,994.54	-40.30	-124.48	790,898.17	922,940.20	33.168°N	103.086°W
2,100.00	5.00	252.06	2,094.16	-42.98	-132.78	790,895.49	922,931.90	33.168°N	103.086°W
2,200.00	5.00	252.06	2,193.78	-45.67	-141.08	790,892.80	922,923.61	33.168°N	103.086°W
2,300.00	5.00	252.06	2,293.39	-48.35	-149.37	790,890.11	922,915.31	33.168°N	103.086°W
2,400.00	5.00	252.06	2,393.01	-51.04	-157.67	790,887.43	922,907.01	33.168°N	103.086°W
2,500.00	5.00	252.06	2,492.63	-53.73	-165.97	790,884.74	922,898.71	33.168°N	103.086°W
2,600.00	5.00	252.06	2,592.25	-56.41	-174.27	790,882.05	922,890.41	33.168°N	103.086°W
2,700.00	5.00	252.06	2,691.87	-59.10	-182.57	790,879.37	922,882.11	33.168°N	103.086°W
2,800.00	5.00	252.06	2,791.49	-61.79	-190.87	790,876.68	922,873.81	33.168°N	103.086°W
2,900.00	5.00	252.06	2,891.11	-64.47	-199.17	790,873.99	922,865.51	33.168°N	103.087°W
2,939.22	5.00	252.06	2,930.18	-65.53	-202.42	790,872.94	922,862.26	33.168°N	103.087°W
Start Drop -1.25 at 2939.22 MD									
3,000.00	4.24	252.06	2,990.76	-67.04	-207.08	790,871.43	922,857.60	33.168°N	103.087°W
3,100.00	2.99	252.06	3,090.56	-68.98	-213.09	790,869.49	922,851.59	33.168°N	103.087°W
3,200.00	1.74	252.06	3,190.47	-70.25	-217.02	790,868.21	922,847.66	33.168°N	103.087°W
3,300.00	0.49	252.06	3,290.45	-70.85	-218.88	790,867.61	922,845.80	33.168°N	103.087°W
3,339.55	0.00	0.00	3,330.00	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
Start 1207.99 hold at 3339.55 MD									
3,400.00	0.00	0.00	3,390.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
3,500.00	0.00	0.00	3,490.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
3,600.00	0.00	0.00	3,590.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
3,700.00	0.00	0.00	3,690.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
3,800.00	0.00	0.00	3,790.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
3,900.00	0.00	0.00	3,890.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,000.00	0.00	0.00	3,990.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,100.00	0.00	0.00	4,090.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,200.00	0.00	0.00	4,190.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,300.00	0.00	0.00	4,290.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,400.00	0.00	0.00	4,390.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W
4,500.00	0.00	0.00	4,490.45	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W

Planning Report - Geographic

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey										
Measured			Vertical			Map		Map		
Depth (ft)	Inclination (°)	Azimuth (°)	Depth (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
4,547.54	0.00	0.00	4,537.99	-70.91	-219.04	790,867.56	922,845.64	33.168°N	103.087°W	
Start Build 8.00 at 4547.54 MD										
4,600.00	4.20	359.21	4,590.40	-68.99	-219.07	790,869.48	922,845.61	33.168°N	103.087°W	
4,700.00	12.20	359.21	4,689.30	-54.74	-219.27	790,883.72	922,845.41	33.168°N	103.087°W	
4,800.00	20.20	359.21	4,785.25	-26.87	-219.65	790,911.59	922,845.03	33.168°N	103.087°W	
4,900.00	28.20	359.21	4,876.39	14.08	-220.22	790,952.54	922,844.47	33.168°N	103.087°W	
5,000.00	36.20	359.21	4,960.95	67.31	-220.95	791,005.78	922,843.73	33.168°N	103.087°W	
5,100.00	44.20	359.21	5,037.27	131.79	-221.84	791,070.26	922,842.84	33.168°N	103.087°W	
5,200.00	52.20	359.21	5,103.87	206.27	-222.87	791,144.74	922,841.82	33.169°N	103.087°W	
5,297.54	60.00	359.21	5,158.24	287.16	-223.98	791,225.62	922,840.70	33.169°N	103.087°W	
Start 250.00 hold at 5297.54 MD										
5,300.00	60.00	359.21	5,159.46	289.29	-224.01	791,227.75	922,840.67	33.169°N	103.087°W	
5,400.00	60.00	359.21	5,209.46	375.88	-225.20	791,314.35	922,839.48	33.169°N	103.087°W	
5,500.00	60.00	359.21	5,259.46	462.47	-226.40	791,400.94	922,838.28	33.169°N	103.087°W	
5,547.54	60.00	359.21	5,283.24	503.64	-226.97	791,442.11	922,837.72	33.169°N	103.087°W	
Start DLS 10.00 TFO -0.01 at 5547.54 MD										
5,600.00	65.25	359.21	5,307.35	550.21	-227.61	791,488.67	922,837.07	33.170°N	103.087°W	
5,700.00	75.25	359.21	5,341.11	644.19	-228.91	791,582.66	922,835.77	33.170°N	103.087°W	
5,800.00	85.25	359.21	5,358.03	742.61	-230.27	791,681.08	922,834.41	33.170°N	103.087°W	
5,847.54	90.00	359.21	5,360.00	790.09	-230.93	791,728.56	922,833.75	33.170°N	103.087°W	
Start 5073.25 hold at 5847.54 MD										
5,900.00	90.00	359.21	5,360.00	842.55	-231.65	791,781.01	922,833.03	33.170°N	103.087°W	
6,000.00	90.00	359.21	5,360.00	942.54	-233.04	791,881.00	922,831.64	33.171°N	103.087°W	
6,100.00	90.00	359.21	5,360.00	1,042.53	-234.43	791,980.99	922,830.26	33.171°N	103.087°W	
6,200.00	90.00	359.21	5,360.00	1,142.52	-235.81	792,080.98	922,828.87	33.171°N	103.087°W	
6,300.00	90.00	359.21	5,360.00	1,242.51	-237.20	792,180.97	922,827.48	33.171°N	103.087°W	
6,400.00	90.00	359.21	5,360.00	1,342.50	-238.58	792,280.96	922,826.10	33.172°N	103.087°W	
6,500.00	90.00	359.21	5,360.00	1,442.49	-239.97	792,380.96	922,824.71	33.172°N	103.087°W	
6,600.00	90.00	359.21	5,360.00	1,542.48	-241.36	792,480.95	922,823.33	33.172°N	103.087°W	
6,700.00	90.00	359.21	5,360.00	1,642.47	-242.74	792,580.94	922,821.94	33.173°N	103.087°W	
6,800.00	90.00	359.21	5,360.00	1,742.46	-244.13	792,680.93	922,820.55	33.173°N	103.087°W	
6,900.00	90.00	359.21	5,360.00	1,842.45	-245.51	792,780.92	922,819.17	33.173°N	103.087°W	
7,000.00	90.00	359.21	5,360.00	1,942.44	-246.90	792,880.91	922,817.78	33.173°N	103.087°W	
7,100.00	90.00	359.21	5,360.00	2,042.43	-248.29	792,980.90	922,816.40	33.174°N	103.087°W	
7,200.00	90.00	359.21	5,360.00	2,142.42	-249.67	793,080.89	922,815.01	33.174°N	103.087°W	
7,300.00	90.00	359.21	5,360.00	2,242.41	-251.06	793,180.88	922,813.62	33.174°N	103.087°W	
7,400.00	90.00	359.21	5,360.00	2,342.40	-252.44	793,280.87	922,812.24	33.174°N	103.087°W	
7,500.00	90.00	359.21	5,360.00	2,442.39	-253.83	793,380.86	922,810.85	33.175°N	103.087°W	
7,600.00	90.00	359.21	5,360.00	2,542.38	-255.22	793,480.85	922,809.47	33.175°N	103.087°W	
7,700.00	90.00	359.21	5,360.00	2,642.38	-256.60	793,580.84	922,808.08	33.175°N	103.087°W	
7,800.00	90.00	359.21	5,360.00	2,742.37	-257.99	793,680.83	922,806.69	33.176°N	103.087°W	
7,900.00	90.00	359.21	5,360.00	2,842.36	-259.37	793,780.82	922,805.31	33.176°N	103.087°W	
8,000.00	90.00	359.21	5,360.00	2,942.35	-260.76	793,880.81	922,803.92	33.176°N	103.087°W	
8,100.00	90.00	359.21	5,360.00	3,042.34	-262.15	793,980.80	922,802.54	33.176°N	103.087°W	
8,200.00	90.00	359.21	5,360.00	3,142.33	-263.53	794,080.79	922,801.15	33.177°N	103.087°W	
8,300.00	90.00	359.21	5,360.00	3,242.32	-264.92	794,180.78	922,799.76	33.177°N	103.087°W	
8,400.00	90.00	359.21	5,360.00	3,342.31	-266.30	794,280.77	922,798.38	33.177°N	103.087°W	
8,500.00	90.00	359.21	5,360.00	3,442.30	-267.69	794,380.76	922,796.99	33.177°N	103.087°W	
8,600.00	90.00	359.21	5,360.00	3,542.29	-269.08	794,480.75	922,795.61	33.178°N	103.087°W	
8,700.00	90.00	359.21	5,360.00	3,642.28	-270.46	794,580.74	922,794.22	33.178°N	103.087°W	
8,800.00	90.00	359.21	5,360.00	3,742.27	-271.85	794,680.73	922,792.83	33.178°N	103.087°W	
8,900.00	90.00	359.21	5,360.00	3,842.26	-273.23	794,780.72	922,791.45	33.179°N	103.087°W	
9,000.00	90.00	359.21	5,360.00	3,942.25	-274.62	794,880.71	922,790.06	33.179°N	103.087°W	
9,100.00	90.00	359.21	5,360.00	4,042.24	-276.01	794,980.70	922,788.68	33.179°N	103.087°W	

Planning Report - Geographic

Database:	edmdb	Local Co-ordinate Reference:	Well Roof Pizza Fee 4H
Company:	Steward Energy II, LLC	TVD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Project:	Lea County, NM (NAD 83) NM East Zone	MD Reference:	GL 3801' + 19' RKB @ 3820.00ft
Site:	Roof Pizza Fee 4H	North Reference:	Grid
Well:	Roof Pizza Fee 4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,200.00	90.00	359.21	5,360.00	4,142.23	-277.39	795,080.69	922,787.29	33.179°N	103.087°W
9,300.00	90.00	359.21	5,360.00	4,242.22	-278.78	795,180.68	922,785.90	33.180°N	103.087°W
9,400.00	90.00	359.21	5,360.00	4,342.21	-280.16	795,280.67	922,784.52	33.180°N	103.087°W
9,500.00	90.00	359.21	5,360.00	4,442.20	-281.55	795,380.66	922,783.13	33.180°N	103.087°W
9,600.00	90.00	359.21	5,360.00	4,542.19	-282.93	795,480.65	922,781.75	33.181°N	103.087°W
9,700.00	90.00	359.21	5,360.00	4,642.18	-284.32	795,580.64	922,780.36	33.181°N	103.087°W
9,800.00	90.00	359.21	5,360.00	4,742.17	-285.71	795,680.63	922,778.97	33.181°N	103.087°W
9,900.00	90.00	359.21	5,360.00	4,842.16	-287.09	795,780.62	922,777.59	33.181°N	103.087°W
10,000.00	90.00	359.21	5,360.00	4,942.15	-288.48	795,880.61	922,776.20	33.182°N	103.087°W
10,100.00	90.00	359.21	5,360.00	5,042.14	-289.86	795,980.60	922,774.82	33.182°N	103.087°W
10,200.00	90.00	359.21	5,360.00	5,142.14	-291.25	796,080.59	922,773.43	33.182°N	103.087°W
10,300.00	90.00	359.21	5,360.00	5,242.13	-292.64	796,180.58	922,772.04	33.182°N	103.087°W
10,400.00	90.00	359.21	5,360.00	5,342.12	-294.02	796,280.57	922,770.66	33.183°N	103.087°W
10,500.00	90.00	359.21	5,360.00	5,442.11	-295.41	796,380.56	922,769.27	33.183°N	103.087°W
10,600.00	90.00	359.21	5,360.00	5,542.10	-296.79	796,480.55	922,767.89	33.183°N	103.087°W
10,700.00	90.00	359.21	5,360.00	5,642.09	-298.18	796,580.54	922,766.50	33.184°N	103.087°W
10,800.00	90.00	359.21	5,360.00	5,742.08	-299.57	796,680.53	922,765.11	33.184°N	103.087°W
10,900.00	90.00	359.21	5,360.00	5,842.07	-300.95	796,780.52	922,763.73	33.184°N	103.087°W
10,920.79	90.00	359.21	5,360.00	5,862.85	-301.24	796,801.31	922,763.44	33.184°N	103.087°W
TD at 10920.79 MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL Roof Pizza Fee 4H	0.00	0.00	0.00	0.00	0.00	790,938.47	923,064.68	33.168°N	103.086°W
- plan hits target center									
- Point									
LTP/BHL Roof Pizza Fee 4H	0.00	0.01	5,360.00	5,862.85	-301.24	796,801.31	922,763.44	33.184°N	103.087°W
- plan hits target center									
- Point									
FTP Roof Pizza Fee 4H	0.00	0.00	5,360.00	790.09	-230.97	791,728.56	922,833.71	33.170°N	103.087°W
- plan misses target center by 0.04ft at 5847.54ft MD (5360.00 TVD, 790.09 N, -230.93 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 1.25 at 300 MD
700.33	699.82	-5.38	-16.62	Start 2238.89 hold at 700.33 MD
2,939.22	2,930.18	-65.53	-202.42	Start Drop -1.25 at 2939.22 MD
3,339.55	3,330.00	-70.91	-219.04	Start 1207.99 hold at 3339.55 MD
4,547.54	4,537.99	-70.91	-219.04	Start Build 8.00 at 4547.54 MD
5,297.54	5,158.24	287.16	-223.98	Start 250.00 hold at 5297.54 MD
5,547.54	5,283.24	503.64	-226.97	Start DLS 10.00 TFO -0.01 at 5547.54 MD
5,847.54	5,360.00	790.09	-230.93	Start 5073.25 hold at 5847.54 MD
10,920.79	5,360.00	5,862.85	-301.24	TD at 10920.79 MD

Steward Energy II - Roof Pizza Fee 4H

1. Geologic Formations

TVD of target	5,360' EOL	Pilot hole depth	NA
MD at TD:	10,921'	Deepest expected fresh water:	400'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Rustler	2295	anhydrite	
Salado	2373	siltstone/sandstone/limestone	
Castile	2960	red shale/anhydrite/sandstone	
Tansill	3050	anhydrite	
Yates	3145	dolomite/sandstone	
Seven Rivers	3394	sandstone/dolomite/shale	
Queen	3942	dolomite/sandstone/anhydrite	
Grayburg	4318	dolomite/sandstone/anhydrite	
San Andres	4571	dolomite/anhydrite	
Manz Marker	5062	dolomite/anhydrite	
Chambliss	5130	dolomite/anhydrite	
Pi Marker	5167	dolomite/anhydrite	
Brahaney B	5217	dolomite/anhydrite	
Brahaney C	5261	dolomite/anhydrite	
Brahaney D	5301	dolomite/anhydrite	
Brahaney E	5339	dolomite/anhydrite	
X	X	dolomite/anhydrite	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs.)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
12.25"	0	2,345	9.625"	36	J55	BTC	1.84	1.53	6.68
8.5"	0	5,540	7"	29	HCL80	BTC	3.24	3.54	4.42
8.5"	5,540	10,921	5.5"	20	L80	BTC	3.11	3.98	4.35
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

All casing strings will be kept at least 1/3 full while running to mitigate collapse.

Production casing burst based on 0.7 psi/ft frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

Steward Energy II - Roof Pizza Fee 4H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Steward Energy II - Roof Pizza Fee 4H

3. Cementing Program

Casing	# Sk	Density (lb./gal.)	Yield (ft.3/sk.)	H ₂ O (gal/sk.)	500# Comp. Strength (hrs.)	Slurry Description
Surf.	590	12.8	1.94	10.4	12	Lead: Class C + 6% Gel + 5% CaCl ₂
	250	14.8	1.32	6.3	8	Tail: Class C + 2% CaCl ₂
Prod.	360	11.5	2.7	16.4	72	Lead: 50:50:10 Class C Blend
	1570	14	1.3	6.5	19	Tail: 50:50:2 Class C Blend

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Production	0'	50% OH in Lateral (KOP to EOL) – 100% OH in Vertical

Steward Energy II - Roof Pizza Fee 4H

4. Pressure Control Equipment

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
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BOP installed and tested before drilling which hole?	Size?	Minimum Required Working Pressure	Type	x	Tested to:
8.5"	11"	3M	Annular	x	50% Testing Pressure
			Blind Ram	x	3M
			Pipe Ram	x	
			Double Ram		
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or 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. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

Steward Energy II - Roof Pizza Fee 4H

5. Mud Program

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
---	-----------------------------

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surface Shoe	FW Gel	8.6 - 9	28-34	N/C
Surface Shoe	Lateral TD	Saturated Brine	10 - 10.2	28-34	N/C

6. Logging and Testing Procedures

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

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Y	CBL	Production casing (If cement not circulated to surface)
Y	Mud log	Intermediate shoe to TD
N	PEX	

Steward Energy II - Roof Pizza Fee 4H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	2845 psi at 5360' TVD
Abnormal Temperature	No. 115 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H ₂ S is present
Y	H ₂ S Plan attached

8. Other Facets of Operation

N	Is it a walking operation?
N	Is casing pre-set?

X	H ₂ S Plan
X	BOP & Choke Schematics
X	Directional Plan

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

Submit Electronically
Via E-permitting

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: Steward Energy II LLC **OGRID:** 371682 **Date:** 4/03/2024

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Roof Pizza Fee #4H		B-27-13S-38E	693' FNL	730	400	3350
			2328'FWL			

IV. Central Delivery Point Name: Pollos Hermanos [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
					n/a (no flowback)	
Roof Pizza Fee 4H		8/14/2025	8/26/2025	10/11/2025	10/31/2025	11/5/2025

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

If Operator checks this box, Operator will select one of the following:

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices


1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Ryan DeLong
Title: VP - Planning & Regulatory
E-mail Address: rdelong@titusoil.com
Date: 4/4/2024
Phone: 817-852-6370
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:

Natural Gas Management Plan - Attachment

- VI. Separation equipment will be sized by engineering staff based on stated manufacturer daily throughput capacities and anticipated daily production rates to ensure adequate capacity. Closed vent system piping, compression needs, and VRUs will be sized utilizing modelling software to ensure adequate capacity for anticipated production volumes and conditions.
- VII. Steward Energy II, LLC (SEII) will take the following actions to comply with the regulations listed in 19.15.27.8:
 - A. SEII will maximize the recovery of natural gas by minimizing the waste, as defined by 19.15.2 NMAC, of natural gas through venting and flaring. SEII will ensure that well(s) will be connected to a natural gas gathering system with sufficient capacity to transport natural gas. If there is no adequate takeaway for the gas, well(s) will be shut in until the natural gas gathering system is available.
 - B. All drilling operations will be equipped with a rig flare located at least 100' from the nearest surface hole. Rig flare will be utilized to combust any natural gas that is brought to surface during normal drilling operations. In the case of emergency venting or flaring the volumes will be estimated and reported appropriately.
 - C. During completion, SEII does not allow the well to flow during CO so there will be nothing to flare. Immediately following the finish of completion operations. Produced natural gas from separation equipment will be sent to sales. It is not anticipated that gas will not meet pipeline standards. However, if natural gas does not meet gathering pipeline quality specifications, SEII will flare the natural gas for 60 days or until the natural gas meets the pipeline quality specifications, whichever is sooner. SEII will ensure that the flare is sized properly and is equipped with automatic igniter or continuous pilot. The gas sample will be analyzed twice per week and the gas will be routed into a gathering system as soon as pipeline specifications are met.
 - D. Natural gas will not be flared with the exceptions and provisions listed in the 19.15.27.8 D.(I) through (4). If there is no adequate takeaway for the separator gas, well(s) will be shut in until the natural gas gathering system is available with exception of emergency or malfunction situations. Venting and/or flaring volumes will be estimated and reported appropriately.
 - E. SEII will comply with the performance standards requirements and provisions listed in 19.15.27.8 E.(I) through (8). All equipment will be designed and sized to handle maximum anticipated pressures and throughputs to minimize the waste. Production storage tanks constructed after May 25, 2021, will be equipped with automatic gauging system. Flares constructed after May 25, 2021, will be equipped with automatic igniter or continuous pilot. Flares will be located at least 100' from the

well and storage tanks unless otherwise approved by the division. SEII will conduct AVO (LDAR) inspections as described in 19.15.27.8 E (5) (a) with frequencies specified in 19.15.27.8 E (5) (b) and (c). All emergencies will be resolved as quickly and safely as feasible to minimize waste.

- F. The volume of natural gas that is vented or flared as the result of malfunction or emergency during drilling and completions operations will be estimated. The volume of natural gas that is vented, flared, or beneficially used during production operations, will be measured, or estimated. SEII will install equipment to measure the volume of natural gas flared from existing process piping, or a flowline piped from equipment such as high-pressure separators, heater treaters, or vapor recovery units associated with a well or facility associated with a well authorized by an APD issued after May 25, 2021, that has an average daily production greater than 60 Mcf/day. If metering is not practicable due to circumstances such as low flow rate or low pressure venting and flaring, SEII will estimate the volume of vented or flared natural gas. Measuring equipment will conform to industry standards and will not be designed or equipped with a manifold that allows the diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment.

- VIII. For maintenance activities involving production equipment and compression, venting will be limited to the depressurization of the subject equipment to ensure safe working conditions. For maintenance of production and compression equipment the associated producing wells will be shut in to eliminate venting. For maintenance of VRUs all gas normally routed to the VRU will be routed to flare to eliminate venting.

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 329348

CONDITIONS

Operator: STEWARD ENERGY II, LLC 420 Throckmorton Fort Worth, TX 76102	OGRID: 371682
	Action Number: 329348
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	4/22/2024