District I
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Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 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

Form C-101
August 1, 2011

Permit 342967

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
STEWARD ENERGY II, LLC 2600 Dallas Parkway Frisco, TX 75034	371682
	3. API Number 30-025-51642

4. Property Code	5. Property Name	6. Well No.
325646	SALAMANCA STATE	003H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	34	13S	38E	B	696	N	1889	E	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	27	13S	38E	B	100	N	2310	E	Lea

9. Pool Information

BRONCO;SAN ANDRES, SOUTH	7500

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		Private	3809
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	10908	San Andres Formation		7/24/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☐ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	12.25	9.625	36	2500	1000	0
Prod	8.75	7	29	5660	1000	0
Prod	8.75	5.5	20	10908	1000	0

Casing/Cement Program: Additional Comments

TAPPERED PRODUCTION CASING

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000	1500	SCHAFER
Annular	3000	1500	SCHAFER

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**		
Printed Name:	Electronically filed by Scott Stedman	Approved By:	Paul F Kautz	
Title:	Executive Vice President	Title:	Geologist	
Email Address:	scott.stedman@stewardenergy.net	Approved Date:	6/22/2023	Expiration Date: 6/22/2025
Date:	6/21/2023 Phone: 214-297-0514	Conditions of Approval Attached		

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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	Pool Code	Pool Name
	7500	Bronco; San Andres, South

Property Code	Property Name	Well Number
	SALAMANCA STATE	#3H

OGRID No.	Operator Name	Elevation
371682	STEWARD ENERGY II, LLC	3809'

Surface Location

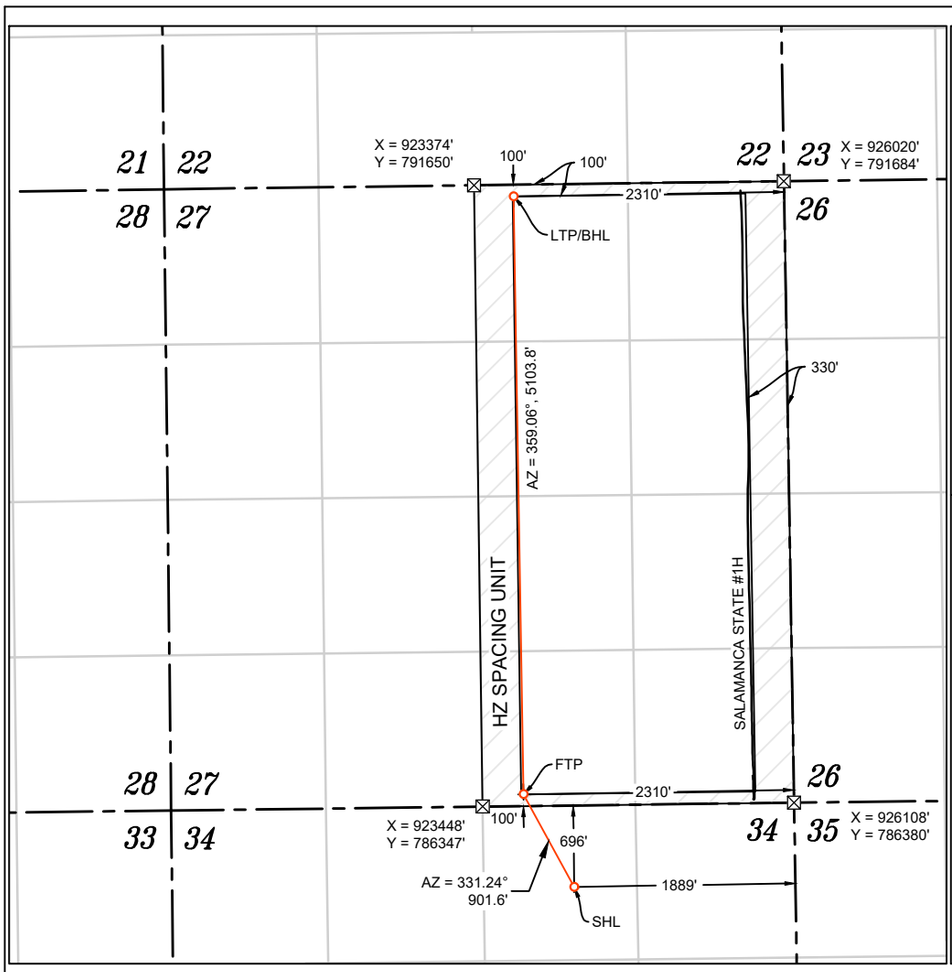
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	34	13 S	38 E		696	NORTH	1889	EAST	LEA

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
B	27	13 S	38 E		100	NORTH	2310	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
320.0			

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.



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.

Vanessa De Los Santos — 6/7/2023
Signature — Date

Vanessa De Los Santos
Printed Name

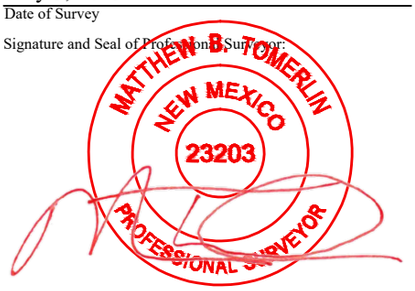
vanessa.delossantos@stewardenergy.net
E-mail Address

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.

May 3, 2023
Date of Survey

Signature and Seal of Professional Surveyor:



Job No.: 23-04-3080
MATTHEW B. TOMERLIN, N.M.P.L.S.
Certificate Number 23203

NAD 83 (SURFACE HOLE LOCATION)
LATITUDE = 33.153473°
LONGITUDE = -103.082274°
NAD 27 (SURFACE HOLE LOCATION)
LATITUDE = 33.153366°
LONGITUDE = -103.081775°
STATE PLANE NAD 83 (N.M. EAST)
N: 785660.77' E: 924229.87'
STATE PLANE NAD 27 (N.M. EAST)
N: 785598.29' E: 883053.89'

NAD 83 (FTP)
LATITUDE = 33.155658°
LONGITUDE = -103.083660°
NAD 27 (FTP)
LATITUDE = 33.155551°
LONGITUDE = -103.083161°
STATE PLANE NAD 83 (N.M. EAST)
N: 786451.10' E: 923796.04'
STATE PLANE NAD 27 (N.M. EAST)
N: 786388.58' E: 882620.07'

NAD 83 (LTP/BHL)
LATITUDE = 33.169684°
LONGITUDE = -103.083735°
NAD 27 (LTP/BHL)
LATITUDE = 33.169577°
LONGITUDE = -103.083236°
STATE PLANE NAD 83 (N.M. EAST)
N: 791554.23' E: 923712.27'
STATE PLANE NAD 27 (N.M. EAST)
N: 791491.57' E: 882536.32'

APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP	
SECTION 27	5103.82'
TOTAL	5103.82'

◎ FND. U.S.G.L.O. MON. UNLESS OTHERWISE NOTED
☒ CALC. CORNER
○ SHL/ KOP/ PPP/ LP
OIL & GAS LEASE
HORIZONTAL SPACING UNIT

NOTES

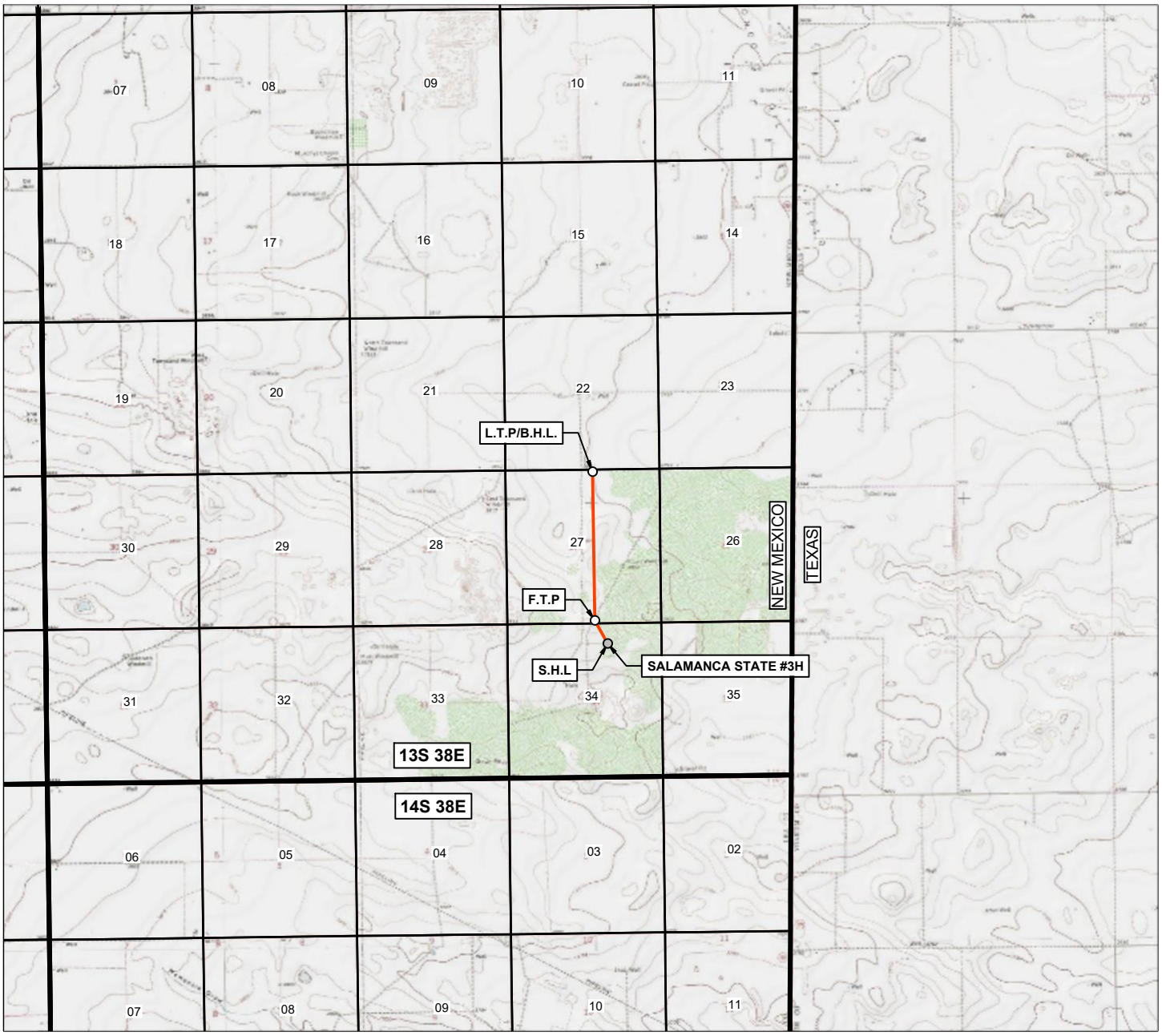
1. ALL COORDINATES, BEARINGS, AND DISTANCES CONTAINED HEREIN ARE GRID, BASED UPON THE NEW MEXICO STATE PLANE COORDINATES SYSTEM, NORTH AMERICAN DATUM 83, NEW MEXICO EAST (3001), NAVD 88.

2. THIS DOCUMENT IS BASED UPON AN ON THE GROUND SURVEY PERFORMED DURING MAY, 2023. 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.

0' 1500' 3000'
SCALE: 1" = 1500'

EXHIBIT 1
LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME AND WELL NUMBER: SALAMANCA STATE #3H
LATITUDE: N 33.153473 LONGITUDE: W 103.082274 ELEVATION: 3809'
DESCRIPTION: 696' FNL & 1889' FEL

STEWARD ENERGY II

Situated in
SECTION 34, TOWNSHIP 13 SOUTH, RANGE 38 EAST
LEA COUNTY, NEW MEXICO

0 1 MILE 2 MILE
SCALE: 1" = 1 MILE

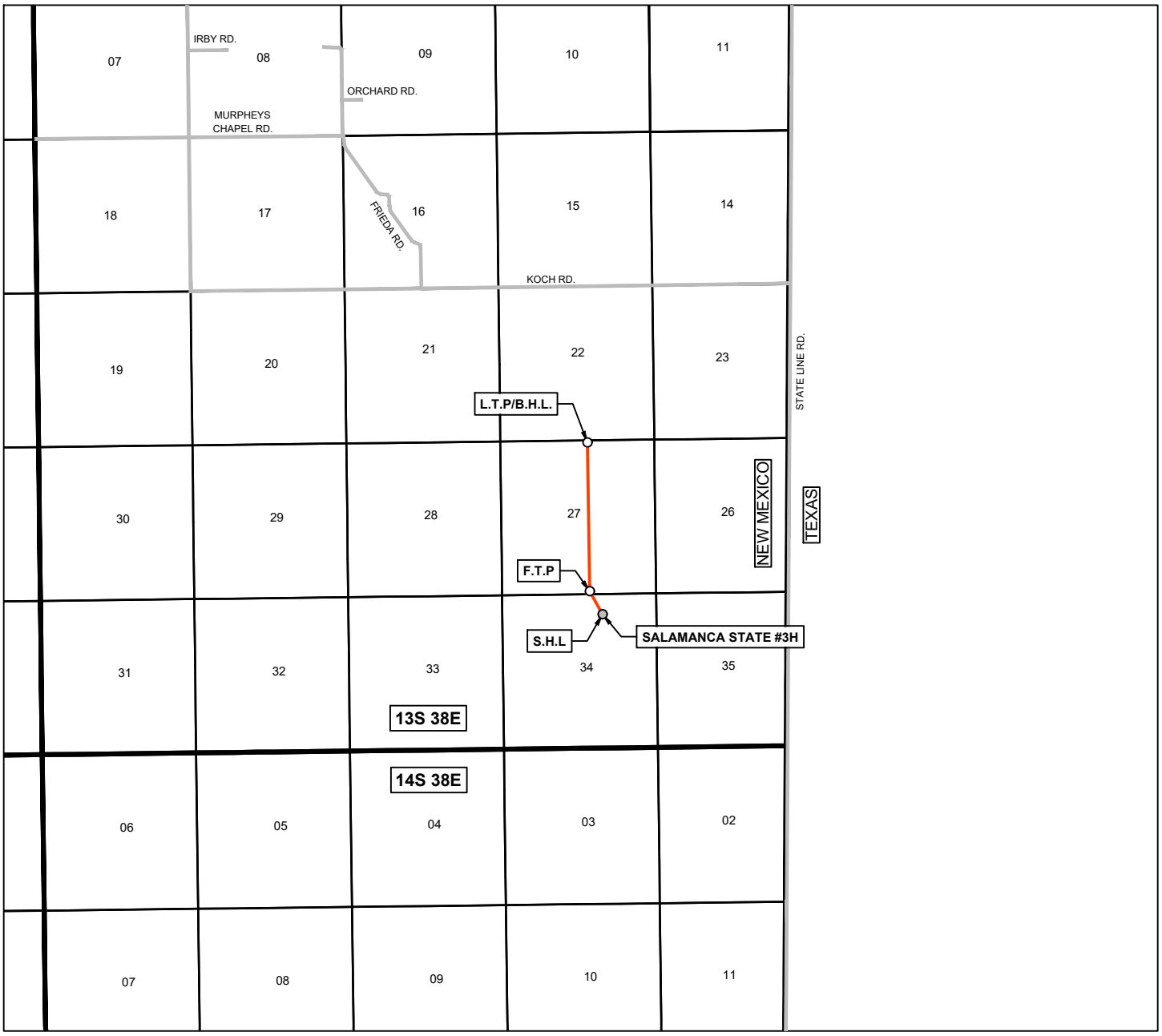
LEGEND
- S.H.L
- F.T.P.; K.O.P.; P.P.P.; L.T.P.; B.H.L.
- PROPOSED WELL BORE
- SECTION LINE
- TOWNSHIP/RANGE LINE

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

DRAWN BY: JH	DATE : 05/02/2023	REV. 0
CHECKED BY: JW	DATE : 05/02/2023	
AFE #	PROJECT ID: 23-04-3080	PAGE 1 OF 1

PLOT DATE: 5/2/2023 12:45:53 PM FILENAME: \\DPDC1\PUBLIC\2023\STEWARD ENERGY\23-04-3080 - SALAMANCA STATE #2H & #3H WELLS\PLATS\FED PACKET\SALAMANCA STATE #3H\LOCATION ELEVATION MAP\NM-LOCATION ELEVATION MAP-SALAMANCE STATE #3H.DWG

EXHIBIT 2
VICINITY MAP



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- S.H.L
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- PROPOSED WELL BORE
- SECTION LINE
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DRAWN BY: JW	DATE : 05/02/2023	REV. 0
CHECKED BY: JH	DATE : 05/02/2023	
AFE #	PROJECT ID: 23-04-3080	PAGE 1 OF 1

PLOT DATE: 5/2/2023 12:45:28 PM FILENAME: \\DPDC1\PUBLIC\2023\STEWARD ENERGY\23-04-3080 - SALAMANCA STATE #2H & #3H WELLS\PLATS\FED PACKET\SALAMANCA STATE #3H\VICINITY MAP\NM-VICINITY MAP-SALAMANCA STATE #3H.DWG

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

Form APD Comments

Permit 342967

PERMIT COMMENTS

Operator Name and Address:	API Number:
STEWARD ENERGY II, LLC [371682] 2600 Dallas Parkway Frisco, TX 75034	30-025-51642
	Well: SALAMANCA STATE #003H

Created By	Comment	Comment Date
vlopez	TAPPERED PRODUCTION CASING	6/21/2023

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

Form APD Conditions

Permit 342967

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
STEWARD ENERGY II, LLC [371682] 2600 Dallas Parkway Frisco, TX 75034	30-025-51642
	Well: SALAMANCA STATE #003H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and production strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC
Salamanca State #3H
Wellbore #1
Plan #1
Norton 8

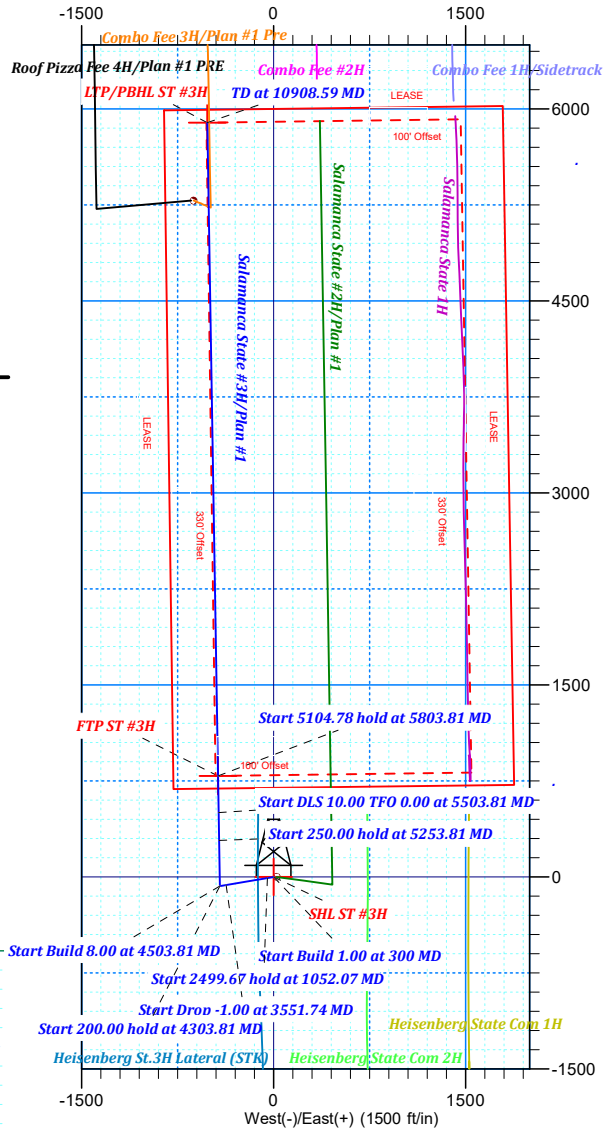
SURFACE LOCATION			
US State Plane 1983 New Mexico Eastern Zone Elevation: GL 3809 + RKB 19 @ 3828.00ft (Norton 8)			
Northing	Easting	Latitude	Longitude
785660.77	924229.87	33.153°N	103.082°W

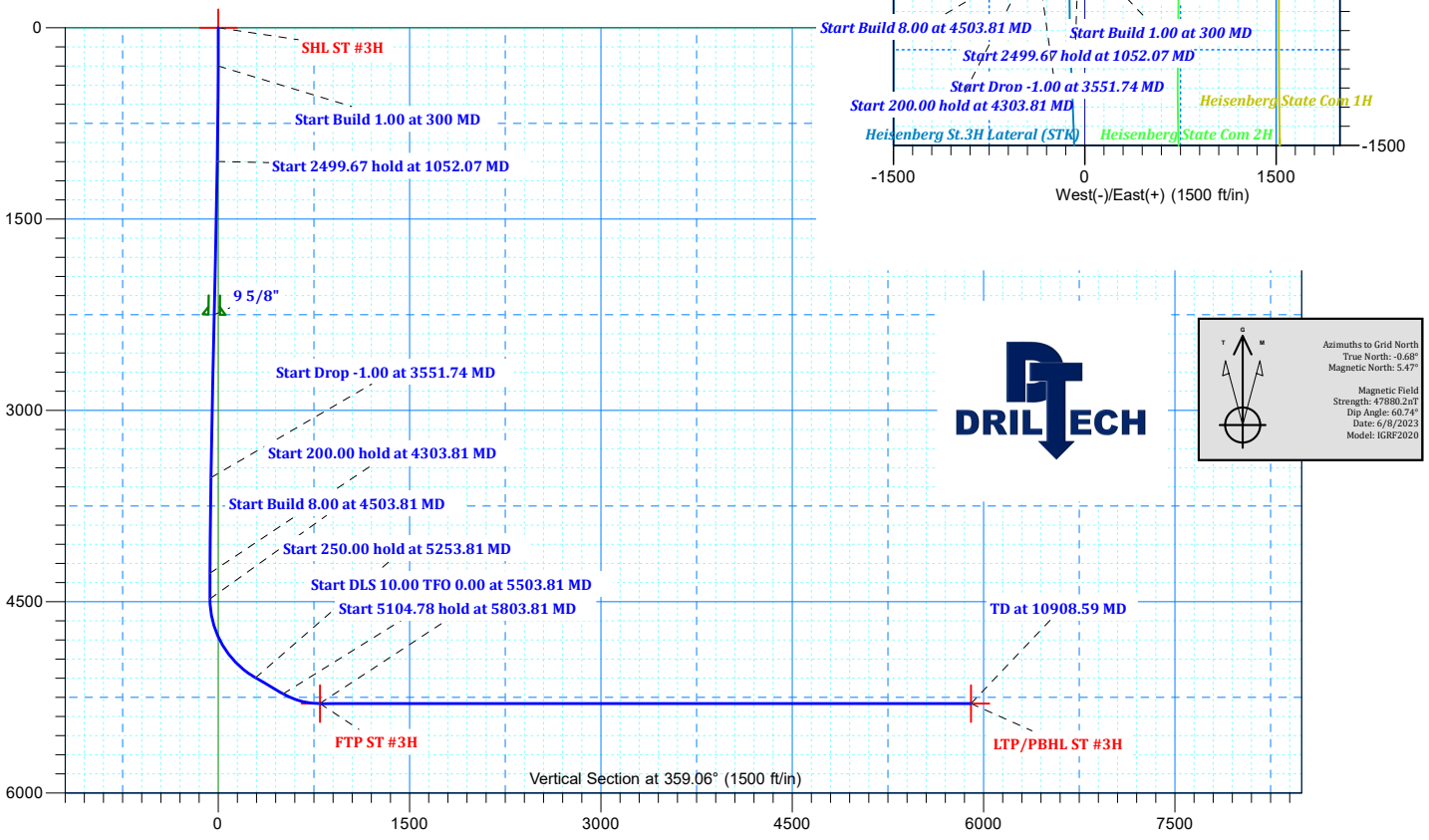
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
SHL ST #3H	0.00	0.00	0.00	785660.77	924229.87
FTP ST #3H	5300.00	790.33	-433.83	786451.10	923796.04
LTP/PBHL ST #3H	5300.00	5893.47	-517.60	791554.23	923712.27

LATERAL 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
1052.07	7.52	260.32	1049.91	-8.29	-48.59	1.00	-7.49
3551.74	7.52	260.32	3528.08	-63.30	-371.10	0.00	-57.20
4303.81	0.00	0.00	4277.99	-71.59	-419.68	1.00	-64.69
4503.81	0.00	0.00	4477.99	-71.59	-419.68	0.00	-64.69
5253.81	60.00	359.06	5098.24	286.46	-425.56	8.00	293.41
5503.81	60.00	359.06	5223.24	502.94	-429.11	0.00	509.91
5803.81	90.00	359.06	5300.00	789.38	-433.81	10.00	796.39
10908.59	90.00	359.06	5300.00	5893.47	-517.60	0.00	5901.17





Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone
Salamanca State #3H
Salamanca State #3H

Wellbore #1

Plan: Plan #1

Standard Planning Report

08 June, 2023

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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 Salamanca State #3H

Site Position:		**Northing:**	785,660.77 usft	**Latitude:**	33.153°N
From:	Map	**Easting:**	924,229.87 usft	**Longitude:**	103.082°W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in		

Well Salamanca State #3H

Well Position	**+N/-S**	0.00 ft	**Northing:**	785,660.77 usft	**Latitude:**	33.153°N
	+E/-W	0.00 ft	**Easting:**	924,229.87 usft	**Longitude:**	103.082°W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,809.00 ft
Grid Convergence:		0.68 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/8/2023	6.15	60.74	47,880.19553869

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	359.06

Plan Survey Tool Program **Date** 6/8/2023

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,908.59	Plan #1 (Wellbore #1)	MWD	
				MWD - Standard	

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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	
1,052.07	7.52	260.32	1,049.91	-8.29	-48.59	1.00	1.00	0.00	260.32	
3,551.74	7.52	260.32	3,528.08	-63.30	-371.10	0.00	0.00	0.00	0.00	
4,303.81	0.00	0.00	4,277.99	-71.59	-419.68	1.00	-1.00	0.00	180.00	
4,503.81	0.00	0.00	4,477.99	-71.59	-419.68	0.00	0.00	0.00	0.00	
5,253.81	60.00	359.06	5,098.24	286.46	-425.56	8.00	8.00	0.00	359.06	
5,503.81	60.00	359.06	5,223.24	502.94	-429.11	0.00	0.00	0.00	0.00	
5,803.81	90.00	359.06	5,300.00	789.38	-433.81	10.00	10.00	0.00	0.00	
10,908.59	90.00	359.06	5,300.00	5,893.47	-517.60	0.00	0.00	0.00	0.00	LTP/PBHL ST #3H

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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 1.00 at 300 MD									
400.00	1.00	260.32	399.99	-0.15	-0.86	-0.13	1.00	1.00	0.00
500.00	2.00	260.32	499.96	-0.59	-3.44	-0.53	1.00	1.00	0.00
600.00	3.00	260.32	599.86	-1.32	-7.74	-1.19	1.00	1.00	0.00
700.00	4.00	260.32	699.68	-2.35	-13.76	-2.12	1.00	1.00	0.00
800.00	5.00	260.32	799.37	-3.67	-21.49	-3.31	1.00	1.00	0.00
900.00	6.00	260.32	898.90	-5.28	-30.94	-4.77	1.00	1.00	0.00
1,000.00	7.00	260.32	998.26	-7.18	-42.10	-6.49	1.00	1.00	0.00
1,052.07	7.52	260.32	1,049.91	-8.29	-48.59	-7.49	1.00	1.00	0.00
Start 2499.67 hold at 1052.07 MD									
1,100.00	7.52	260.32	1,097.43	-9.34	-54.77	-8.44	0.00	0.00	0.00
1,200.00	7.52	260.32	1,196.57	-11.54	-67.67	-10.43	0.00	0.00	0.00
1,300.00	7.52	260.32	1,295.71	-13.74	-80.57	-12.42	0.00	0.00	0.00
1,400.00	7.52	260.32	1,394.85	-15.94	-93.48	-14.41	0.00	0.00	0.00
1,500.00	7.52	260.32	1,493.99	-18.15	-106.38	-16.40	0.00	0.00	0.00
1,600.00	7.52	260.32	1,593.13	-20.35	-119.28	-18.39	0.00	0.00	0.00
1,700.00	7.52	260.32	1,692.27	-22.55	-132.18	-20.38	0.00	0.00	0.00
1,800.00	7.52	260.32	1,791.41	-24.75	-145.08	-22.36	0.00	0.00	0.00
1,900.00	7.52	260.32	1,890.55	-26.95	-157.99	-24.35	0.00	0.00	0.00
2,000.00	7.52	260.32	1,989.69	-29.15	-170.89	-26.34	0.00	0.00	0.00
2,100.00	7.52	260.32	2,088.83	-31.35	-183.79	-28.33	0.00	0.00	0.00
2,200.00	7.52	260.32	2,187.97	-33.55	-196.69	-30.32	0.00	0.00	0.00
2,262.57	7.52	260.32	2,250.00	-34.93	-204.77	-31.56	0.00	0.00	0.00
9 5/8"									
2,300.00	7.52	260.32	2,287.11	-35.75	-209.60	-32.31	0.00	0.00	0.00
2,400.00	7.52	260.32	2,386.25	-37.95	-222.50	-34.30	0.00	0.00	0.00
2,500.00	7.52	260.32	2,485.39	-40.15	-235.40	-36.29	0.00	0.00	0.00
2,600.00	7.52	260.32	2,584.53	-42.35	-248.30	-38.27	0.00	0.00	0.00
2,700.00	7.52	260.32	2,683.67	-44.55	-261.20	-40.26	0.00	0.00	0.00
2,800.00	7.52	260.32	2,782.81	-46.75	-274.11	-42.25	0.00	0.00	0.00
2,900.00	7.52	260.32	2,881.95	-48.96	-287.01	-44.24	0.00	0.00	0.00
3,000.00	7.52	260.32	2,981.09	-51.16	-299.91	-46.23	0.00	0.00	0.00
3,100.00	7.52	260.32	3,080.23	-53.36	-312.81	-48.22	0.00	0.00	0.00
3,200.00	7.52	260.32	3,179.37	-55.56	-325.71	-50.21	0.00	0.00	0.00
3,300.00	7.52	260.32	3,278.50	-57.76	-338.62	-52.20	0.00	0.00	0.00
3,400.00	7.52	260.32	3,377.64	-59.96	-351.52	-54.18	0.00	0.00	0.00
3,500.00	7.52	260.32	3,476.78	-62.16	-364.42	-56.17	0.00	0.00	0.00
3,551.74	7.52	260.32	3,528.08	-63.30	-371.10	-57.20	0.00	0.00	0.00
Start Drop -1.00 at 3551.74 MD									
3,600.00	7.04	260.32	3,575.95	-64.33	-377.12	-58.13	1.00	-1.00	0.00
3,700.00	6.04	260.32	3,675.30	-66.24	-388.35	-59.86	1.00	-1.00	0.00
3,800.00	5.04	260.32	3,774.83	-67.86	-397.86	-61.33	1.00	-1.00	0.00
3,900.00	4.04	260.32	3,874.52	-69.19	-405.66	-62.53	1.00	-1.00	0.00
4,000.00	3.04	260.32	3,974.32	-70.23	-411.74	-63.47	1.00	-1.00	0.00
4,100.00	2.04	260.32	4,074.22	-70.98	-416.11	-64.14	1.00	-1.00	0.00
4,200.00	1.04	260.32	4,174.19	-71.43	-418.76	-64.55	1.00	-1.00	0.00
4,300.00	0.04	260.32	4,274.18	-71.59	-419.68	-64.69	1.00	-1.00	0.00
4,303.81	0.00	0.00	4,277.99	-71.59	-419.68	-64.69	1.00	-1.00	0.00
Start 200.00 hold at 4303.81 MD									
4,400.00	0.00	0.00	4,374.18	-71.59	-419.68	-64.69	0.00	0.00	0.00

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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)
4,500.00	0.00	0.00	4,474.18	-71.59	-419.68	-64.69	0.00	0.00	0.00
4,503.81	0.00	0.00	4,477.99	-71.59	-419.68	-64.69	0.00	0.00	0.00
Start Build 8.00 at 4503.81 MD									
4,600.00	7.70	359.06	4,573.89	-65.14	-419.79	-58.24	8.00	8.00	0.00
4,700.00	15.70	359.06	4,671.74	-44.89	-420.12	-37.99	8.00	8.00	0.00
4,800.00	23.70	359.06	4,765.81	-11.22	-420.67	-4.31	8.00	8.00	0.00
4,900.00	31.70	359.06	4,854.28	35.22	-421.43	42.13	8.00	8.00	0.00
5,000.00	39.70	359.06	4,935.43	93.51	-422.39	100.43	8.00	8.00	0.00
5,100.00	47.70	359.06	5,007.67	162.53	-423.52	169.45	8.00	8.00	0.00
5,200.00	55.70	359.06	5,069.61	240.92	-424.81	247.86	8.00	8.00	0.00
5,253.81	60.00	359.06	5,098.24	286.46	-425.56	293.41	8.00	8.00	0.00
Start 250.00 hold at 5253.81 MD									
5,300.00	60.00	359.06	5,121.33	326.46	-426.21	333.41	0.00	0.00	0.00
5,400.00	60.00	359.06	5,171.33	413.05	-427.63	420.01	0.00	0.00	0.00
5,500.00	60.00	359.06	5,221.33	499.64	-429.05	506.62	0.00	0.00	0.00
5,503.81	60.00	359.06	5,223.24	502.94	-429.11	509.91	0.00	0.00	0.00
Start DLS 10.00 TFO 0.00 at 5503.81 MD									
5,600.00	69.62	359.06	5,264.13	589.87	-430.54	596.85	10.00	10.00	0.00
5,700.00	79.62	359.06	5,290.62	686.15	-432.12	693.15	10.00	10.00	0.00
5,800.00	89.62	359.06	5,299.98	785.57	-433.75	792.58	10.00	10.00	0.00
5,803.81	90.00	359.06	5,300.00	789.38	-433.81	796.39	10.00	10.00	0.00
Start 5104.78 hold at 5803.81 MD									
5,900.00	90.00	359.06	5,300.00	885.56	-435.39	892.58	0.00	0.00	0.00
6,000.00	90.00	359.06	5,300.00	985.55	-437.03	992.58	0.00	0.00	0.00
6,100.00	90.00	359.06	5,300.00	1,085.53	-438.67	1,092.58	0.00	0.00	0.00
6,200.00	90.00	359.06	5,300.00	1,185.52	-440.31	1,192.58	0.00	0.00	0.00
6,300.00	90.00	359.06	5,300.00	1,285.51	-441.95	1,292.58	0.00	0.00	0.00
6,400.00	90.00	359.06	5,300.00	1,385.49	-443.60	1,392.58	0.00	0.00	0.00
6,500.00	90.00	359.06	5,300.00	1,485.48	-445.24	1,492.58	0.00	0.00	0.00
6,600.00	90.00	359.06	5,300.00	1,585.47	-446.88	1,592.58	0.00	0.00	0.00
6,700.00	90.00	359.06	5,300.00	1,685.45	-448.52	1,692.58	0.00	0.00	0.00
6,800.00	90.00	359.06	5,300.00	1,785.44	-450.16	1,792.58	0.00	0.00	0.00
6,900.00	90.00	359.06	5,300.00	1,885.43	-451.80	1,892.58	0.00	0.00	0.00
7,000.00	90.00	359.06	5,300.00	1,985.41	-453.44	1,992.58	0.00	0.00	0.00
7,100.00	90.00	359.06	5,300.00	2,085.40	-455.09	2,092.58	0.00	0.00	0.00
7,200.00	90.00	359.06	5,300.00	2,185.39	-456.73	2,192.58	0.00	0.00	0.00
7,300.00	90.00	359.06	5,300.00	2,285.37	-458.37	2,292.58	0.00	0.00	0.00
7,400.00	90.00	359.06	5,300.00	2,385.36	-460.01	2,392.58	0.00	0.00	0.00
7,500.00	90.00	359.06	5,300.00	2,485.34	-461.65	2,492.58	0.00	0.00	0.00
7,600.00	90.00	359.06	5,300.00	2,585.33	-463.29	2,592.58	0.00	0.00	0.00
7,700.00	90.00	359.06	5,300.00	2,685.32	-464.93	2,692.58	0.00	0.00	0.00
7,800.00	90.00	359.06	5,300.00	2,785.30	-466.58	2,792.58	0.00	0.00	0.00
7,900.00	90.00	359.06	5,300.00	2,885.29	-468.22	2,892.58	0.00	0.00	0.00
8,000.00	90.00	359.06	5,300.00	2,985.28	-469.86	2,992.58	0.00	0.00	0.00
8,100.00	90.00	359.06	5,300.00	3,085.26	-471.50	3,092.58	0.00	0.00	0.00
8,200.00	90.00	359.06	5,300.00	3,185.25	-473.14	3,192.58	0.00	0.00	0.00
8,300.00	90.00	359.06	5,300.00	3,285.24	-474.78	3,292.58	0.00	0.00	0.00
8,400.00	90.00	359.06	5,300.00	3,385.22	-476.42	3,392.58	0.00	0.00	0.00
8,500.00	90.00	359.06	5,300.00	3,485.21	-478.07	3,492.58	0.00	0.00	0.00
8,600.00	90.00	359.06	5,300.00	3,585.20	-479.71	3,592.58	0.00	0.00	0.00
8,700.00	90.00	359.06	5,300.00	3,685.18	-481.35	3,692.58	0.00	0.00	0.00
8,800.00	90.00	359.06	5,300.00	3,785.17	-482.99	3,792.58	0.00	0.00	0.00
8,900.00	90.00	359.06	5,300.00	3,885.16	-484.63	3,892.58	0.00	0.00	0.00

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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)
9,000.00	90.00	359.06	5,300.00	3,985.14	-486.27	3,992.58	0.00	0.00	0.00
9,100.00	90.00	359.06	5,300.00	4,085.13	-487.91	4,092.58	0.00	0.00	0.00
9,200.00	90.00	359.06	5,300.00	4,185.12	-489.56	4,192.58	0.00	0.00	0.00
9,300.00	90.00	359.06	5,300.00	4,285.10	-491.20	4,292.58	0.00	0.00	0.00
9,400.00	90.00	359.06	5,300.00	4,385.09	-492.84	4,392.58	0.00	0.00	0.00
9,500.00	90.00	359.06	5,300.00	4,485.08	-494.48	4,492.58	0.00	0.00	0.00
9,600.00	90.00	359.06	5,300.00	4,585.06	-496.12	4,592.58	0.00	0.00	0.00
9,700.00	90.00	359.06	5,300.00	4,685.05	-497.76	4,692.58	0.00	0.00	0.00
9,800.00	90.00	359.06	5,300.00	4,785.03	-499.40	4,792.58	0.00	0.00	0.00
9,900.00	90.00	359.06	5,300.00	4,885.02	-501.05	4,892.58	0.00	0.00	0.00
10,000.00	90.00	359.06	5,300.00	4,985.01	-502.69	4,992.58	0.00	0.00	0.00
10,100.00	90.00	359.06	5,300.00	5,084.99	-504.33	5,092.58	0.00	0.00	0.00
10,200.00	90.00	359.06	5,300.00	5,184.98	-505.97	5,192.58	0.00	0.00	0.00
10,300.00	90.00	359.06	5,300.00	5,284.97	-507.61	5,292.58	0.00	0.00	0.00
10,400.00	90.00	359.06	5,300.00	5,384.95	-509.25	5,392.58	0.00	0.00	0.00
10,500.00	90.00	359.06	5,300.00	5,484.94	-510.89	5,492.58	0.00	0.00	0.00
10,600.00	90.00	359.06	5,300.00	5,584.93	-512.54	5,592.58	0.00	0.00	0.00
10,700.00	90.00	359.06	5,300.00	5,684.91	-514.18	5,692.58	0.00	0.00	0.00
10,800.00	90.00	359.06	5,300.00	5,784.90	-515.82	5,792.58	0.00	0.00	0.00
10,900.00	90.00	359.06	5,300.00	5,884.89	-517.46	5,892.58	0.00	0.00	0.00
10,908.59	90.00	359.06	5,300.00	5,893.47	-517.60	5,901.17	0.00	0.00	0.00
TD at 10908.59 MD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL ST #3H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	785,660.77	924,229.87	33.153°N	103.082°W
FTP ST #3H - plan misses target center by 0.01ft at 5804.76ft MD (5300.00 TVD, 790.33 N, -433.83 E) - Point	0.00	0.00	5,300.00	790.33	-433.83	786,451.10	923,796.04	33.156°N	103.084°W
LTP/PBHL ST #3H - plan hits target center - Point	0.00	0.00	5,300.00	5,893.47	-517.60	791,554.23	923,712.27	33.170°N	103.084°W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,262.57	2,250.00	9 5/8"	9.625	12.250

Planning Report

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 1.00 at 300 MD
1,052.07	1,049.91	-8.29	-48.59	Start 2499.67 hold at 1052.07 MD
3,551.74	3,528.08	-63.30	-371.10	Start Drop -1.00 at 3551.74 MD
4,303.81	4,277.99	-71.59	-419.68	Start 200.00 hold at 4303.81 MD
4,503.81	4,477.99	-71.59	-419.68	Start Build 8.00 at 4503.81 MD
5,253.81	5,098.24	286.46	-425.56	Start 250.00 hold at 5253.81 MD
5,503.81	5,223.24	502.94	-429.11	Start DLS 10.00 TFO 0.00 at 5503.81 MD
5,803.81	5,300.00	789.38	-433.81	Start 5104.78 hold at 5803.81 MD
10,908.59	5,300.00	5,893.47	-517.60	TD at 10908.59 MD

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone
Salamanca State #3H
Salamanca State #3H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

08 June, 2023

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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 Salamanca State #3H

Site Position:		**Northing:**	785,660.77 usft	**Latitude:**	33.153°N
From:	Map	**Easting:**	924,229.87 usft	**Longitude:**	103.082°W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in		

Well Salamanca State #3H

Well Position	**+N/-S**	0.00 ft	**Northing:**	785,660.77 usft	**Latitude:**	33.153°N
	+E/-W	0.00 ft	**Easting:**	924,229.87 usft	**Longitude:**	103.082°W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	3,809.00 ft
Grid Convergence:		0.68 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/8/2023	6.15	60.74	47,880.19553869

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	359.06

Plan Survey Tool Program **Date** 6/8/2023

	Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	10,908.59	Plan #1 (Wellbore #1)	MWD MWD - Standard	

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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	
1,052.07	7.52	260.32	1,049.91	-8.29	-48.59	1.00	1.00	0.00	260.32	
3,551.74	7.52	260.32	3,528.08	-63.30	-371.10	0.00	0.00	0.00	0.00	
4,303.81	0.00	0.00	4,277.99	-71.59	-419.68	1.00	-1.00	0.00	180.00	
4,503.81	0.00	0.00	4,477.99	-71.59	-419.68	0.00	0.00	0.00	0.00	
5,253.81	60.00	359.06	5,098.24	286.46	-425.56	8.00	8.00	0.00	359.06	
5,503.81	60.00	359.06	5,223.24	502.94	-429.11	0.00	0.00	0.00	0.00	
5,803.81	90.00	359.06	5,300.00	789.38	-433.81	10.00	10.00	0.00	0.00	
10,908.59	90.00	359.06	5,300.00	5,893.47	-517.60	0.00	0.00	0.00	0.00	LTP/PBHL ST #3H

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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	785,660.77	924,229.87	33.153°N	103.082°W
100.00	0.00	0.00	100.00	0.00	0.00	785,660.77	924,229.87	33.153°N	103.082°W
200.00	0.00	0.00	200.00	0.00	0.00	785,660.77	924,229.87	33.153°N	103.082°W
300.00	0.00	0.00	300.00	0.00	0.00	785,660.77	924,229.87	33.153°N	103.082°W
Start Build 1.00 at 300 MD									
400.00	1.00	260.32	399.99	-0.15	-0.86	785,660.62	924,229.01	33.153°N	103.082°W
500.00	2.00	260.32	499.96	-0.59	-3.44	785,660.18	924,226.43	33.153°N	103.082°W
600.00	3.00	260.32	599.86	-1.32	-7.74	785,659.45	924,222.13	33.153°N	103.082°W
700.00	4.00	260.32	699.68	-2.35	-13.76	785,658.42	924,216.11	33.153°N	103.082°W
800.00	5.00	260.32	799.37	-3.67	-21.49	785,657.10	924,208.38	33.153°N	103.082°W
900.00	6.00	260.32	898.90	-5.28	-30.94	785,655.49	924,198.93	33.153°N	103.082°W
1,000.00	7.00	260.32	998.26	-7.18	-42.10	785,653.59	924,187.77	33.153°N	103.082°W
1,052.07	7.52	260.32	1,049.91	-8.29	-48.59	785,652.48	924,181.28	33.153°N	103.082°W
Start 2499.67 hold at 1052.07 MD									
1,100.00	7.52	260.32	1,097.43	-9.34	-54.77	785,651.43	924,175.10	33.153°N	103.082°W
1,200.00	7.52	260.32	1,196.57	-11.54	-67.67	785,649.22	924,162.20	33.153°N	103.082°W
1,300.00	7.52	260.32	1,295.71	-13.74	-80.57	785,647.02	924,149.30	33.153°N	103.083°W
1,400.00	7.52	260.32	1,394.85	-15.94	-93.48	785,644.82	924,136.39	33.153°N	103.083°W
1,500.00	7.52	260.32	1,493.99	-18.15	-106.38	785,642.62	924,123.49	33.153°N	103.083°W
1,600.00	7.52	260.32	1,593.13	-20.35	-119.28	785,640.42	924,110.59	33.153°N	103.083°W
1,700.00	7.52	260.32	1,692.27	-22.55	-132.18	785,638.22	924,097.69	33.153°N	103.083°W
1,800.00	7.52	260.32	1,791.41	-24.75	-145.08	785,636.02	924,084.79	33.153°N	103.083°W
1,900.00	7.52	260.32	1,890.55	-26.95	-157.99	785,633.82	924,071.88	33.153°N	103.083°W
2,000.00	7.52	260.32	1,989.69	-29.15	-170.89	785,631.62	924,058.98	33.153°N	103.083°W
2,100.00	7.52	260.32	2,088.83	-31.35	-183.79	785,629.42	924,046.08	33.153°N	103.083°W
2,200.00	7.52	260.32	2,187.97	-33.55	-196.69	785,627.22	924,033.18	33.153°N	103.083°W
2,262.57	7.52	260.32	2,250.00	-34.93	-204.77	785,625.84	924,025.10	33.153°N	103.083°W
9 5/8"									
2,300.00	7.52	260.32	2,287.11	-35.75	-209.60	785,625.02	924,020.28	33.153°N	103.083°W
2,400.00	7.52	260.32	2,386.25	-37.95	-222.50	785,622.82	924,007.37	33.153°N	103.083°W
2,500.00	7.52	260.32	2,485.39	-40.15	-235.40	785,620.61	923,994.47	33.153°N	103.083°W
2,600.00	7.52	260.32	2,584.53	-42.35	-248.30	785,618.41	923,981.57	33.153°N	103.083°W
2,700.00	7.52	260.32	2,683.67	-44.55	-261.20	785,616.21	923,968.67	33.153°N	103.083°W
2,800.00	7.52	260.32	2,782.81	-46.75	-274.11	785,614.01	923,955.77	33.153°N	103.083°W
2,900.00	7.52	260.32	2,881.95	-48.96	-287.01	785,611.81	923,942.86	33.153°N	103.083°W
3,000.00	7.52	260.32	2,981.09	-51.16	-299.91	785,609.61	923,929.96	33.153°N	103.083°W
3,100.00	7.52	260.32	3,080.23	-53.36	-312.81	785,607.41	923,917.06	33.153°N	103.083°W
3,200.00	7.52	260.32	3,179.37	-55.56	-325.71	785,605.21	923,904.16	33.153°N	103.083°W
3,300.00	7.52	260.32	3,278.50	-57.76	-338.62	785,603.01	923,891.25	33.153°N	103.083°W
3,400.00	7.52	260.32	3,377.64	-59.96	-351.52	785,600.81	923,878.35	33.153°N	103.083°W
3,500.00	7.52	260.32	3,476.78	-62.16	-364.42	785,598.61	923,865.45	33.153°N	103.083°W
3,551.74	7.52	260.32	3,528.08	-63.30	-371.10	785,597.47	923,858.78	33.153°N	103.083°W
Start Drop -1.00 at 3551.74 MD									
3,600.00	7.04	260.32	3,575.95	-64.33	-377.12	785,596.44	923,852.75	33.153°N	103.084°W
3,700.00	6.04	260.32	3,675.30	-66.24	-388.35	785,594.53	923,841.52	33.153°N	103.084°W
3,800.00	5.04	260.32	3,774.83	-67.86	-397.86	785,592.90	923,832.01	33.153°N	103.084°W
3,900.00	4.04	260.32	3,874.52	-69.19	-405.66	785,591.57	923,824.21	33.153°N	103.084°W
4,000.00	3.04	260.32	3,974.32	-70.23	-411.74	785,590.54	923,818.13	33.153°N	103.084°W
4,100.00	2.04	260.32	4,074.22	-70.98	-416.11	785,589.79	923,813.76	33.153°N	103.084°W
4,200.00	1.04	260.32	4,174.19	-71.43	-418.76	785,589.34	923,811.12	33.153°N	103.084°W
4,300.00	0.04	260.32	4,274.18	-71.59	-419.68	785,589.18	923,810.19	33.153°N	103.084°W
4,303.81	0.00	0.00	4,277.99	-71.59	-419.68	785,589.18	923,810.19	33.153°N	103.084°W
Start 200.00 hold at 4303.81 MD									
4,400.00	0.00	0.00	4,374.18	-71.59	-419.68	785,589.18	923,810.19	33.153°N	103.084°W

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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
4,500.00	0.00	0.00	4,474.18	-71.59	-419.68	785,589.18	923,810.19	33.153°N	103.084°W
4,503.81	0.00	0.00	4,477.99	-71.59	-419.68	785,589.18	923,810.19	33.153°N	103.084°W
Start Build 8.00 at 4503.81 MD									
4,600.00	7.70	359.06	4,573.89	-65.14	-419.79	785,595.63	923,810.08	33.153°N	103.084°W
4,700.00	15.70	359.06	4,671.74	-44.89	-420.12	785,615.88	923,809.75	33.153°N	103.084°W
4,800.00	23.70	359.06	4,765.81	-11.22	-420.67	785,649.55	923,809.20	33.153°N	103.084°W
4,900.00	31.70	359.06	4,854.28	35.22	-421.43	785,695.98	923,808.44	33.154°N	103.084°W
5,000.00	39.70	359.06	4,935.43	93.51	-422.39	785,754.28	923,807.48	33.154°N	103.084°W
5,100.00	47.70	359.06	5,007.67	162.53	-423.52	785,823.29	923,806.35	33.154°N	103.084°W
5,200.00	55.70	359.06	5,069.61	240.92	-424.81	785,901.69	923,805.06	33.154°N	103.084°W
5,253.81	60.00	359.06	5,098.24	286.46	-425.56	785,947.23	923,804.31	33.154°N	103.084°W
Start 250.00 hold at 5253.81 MD									
5,300.00	60.00	359.06	5,121.33	326.46	-426.21	785,987.23	923,803.66	33.154°N	103.084°W
5,400.00	60.00	359.06	5,171.33	413.05	-427.63	786,073.82	923,802.24	33.155°N	103.084°W
5,500.00	60.00	359.06	5,221.33	499.64	-429.05	786,160.41	923,800.82	33.155°N	103.084°W
5,503.81	60.00	359.06	5,223.24	502.94	-429.11	786,163.71	923,800.76	33.155°N	103.084°W
Start DLS 10.00 TFO 0.00 at 5503.81 MD									
5,600.00	69.62	359.06	5,264.13	589.87	-430.54	786,250.64	923,799.34	33.155°N	103.084°W
5,700.00	79.62	359.06	5,290.62	686.15	-432.12	786,346.92	923,797.76	33.155°N	103.084°W
5,800.00	89.62	359.06	5,299.98	785.57	-433.75	786,446.34	923,796.12	33.156°N	103.084°W
5,803.81	90.00	359.06	5,300.00	789.38	-433.81	786,450.15	923,796.06	33.156°N	103.084°W
Start 5104.78 hold at 5803.81 MD									
5,900.00	90.00	359.06	5,300.00	885.56	-435.39	786,546.33	923,794.48	33.156°N	103.084°W
6,000.00	90.00	359.06	5,300.00	985.55	-437.03	786,646.31	923,792.84	33.156°N	103.084°W
6,100.00	90.00	359.06	5,300.00	1,085.53	-438.67	786,746.30	923,791.20	33.156°N	103.084°W
6,200.00	90.00	359.06	5,300.00	1,185.52	-440.31	786,846.28	923,789.56	33.157°N	103.084°W
6,300.00	90.00	359.06	5,300.00	1,285.51	-441.95	786,946.27	923,787.92	33.157°N	103.084°W
6,400.00	90.00	359.06	5,300.00	1,385.49	-443.60	787,046.26	923,786.28	33.157°N	103.084°W
6,500.00	90.00	359.06	5,300.00	1,485.48	-445.24	787,146.24	923,784.63	33.158°N	103.084°W
6,600.00	90.00	359.06	5,300.00	1,585.47	-446.88	787,246.23	923,782.99	33.158°N	103.084°W
6,700.00	90.00	359.06	5,300.00	1,685.45	-448.52	787,346.22	923,781.35	33.158°N	103.084°W
6,800.00	90.00	359.06	5,300.00	1,785.44	-450.16	787,446.20	923,779.71	33.158°N	103.084°W
6,900.00	90.00	359.06	5,300.00	1,885.43	-451.80	787,546.19	923,778.07	33.159°N	103.084°W
7,000.00	90.00	359.06	5,300.00	1,985.41	-453.44	787,646.18	923,776.43	33.159°N	103.084°W
7,100.00	90.00	359.06	5,300.00	2,085.40	-455.09	787,746.16	923,774.79	33.159°N	103.084°W
7,200.00	90.00	359.06	5,300.00	2,185.39	-456.73	787,846.15	923,773.14	33.159°N	103.084°W
7,300.00	90.00	359.06	5,300.00	2,285.37	-458.37	787,946.13	923,771.50	33.160°N	103.084°W
7,400.00	90.00	359.06	5,300.00	2,385.36	-460.01	788,046.12	923,769.86	33.160°N	103.084°W
7,500.00	90.00	359.06	5,300.00	2,485.34	-461.65	788,146.11	923,768.22	33.160°N	103.084°W
7,600.00	90.00	359.06	5,300.00	2,585.33	-463.29	788,246.09	923,766.58	33.161°N	103.084°W
7,700.00	90.00	359.06	5,300.00	2,685.32	-464.93	788,346.08	923,764.94	33.161°N	103.084°W
7,800.00	90.00	359.06	5,300.00	2,785.30	-466.58	788,446.07	923,763.30	33.161°N	103.084°W
7,900.00	90.00	359.06	5,300.00	2,885.29	-468.22	788,546.05	923,761.65	33.161°N	103.084°W
8,000.00	90.00	359.06	5,300.00	2,985.28	-469.86	788,646.04	923,760.01	33.162°N	103.084°W
8,100.00	90.00	359.06	5,300.00	3,085.26	-471.50	788,746.03	923,758.37	33.162°N	103.084°W
8,200.00	90.00	359.06	5,300.00	3,185.25	-473.14	788,846.01	923,756.73	33.162°N	103.084°W
8,300.00	90.00	359.06	5,300.00	3,285.24	-474.78	788,946.00	923,755.09	33.163°N	103.084°W
8,400.00	90.00	359.06	5,300.00	3,385.22	-476.42	789,045.98	923,753.45	33.163°N	103.084°W
8,500.00	90.00	359.06	5,300.00	3,485.21	-478.07	789,145.97	923,751.81	33.163°N	103.084°W
8,600.00	90.00	359.06	5,300.00	3,585.20	-479.71	789,245.96	923,750.16	33.163°N	103.084°W
8,700.00	90.00	359.06	5,300.00	3,685.18	-481.35	789,345.94	923,748.52	33.164°N	103.084°W
8,800.00	90.00	359.06	5,300.00	3,785.17	-482.99	789,445.93	923,746.88	33.164°N	103.084°W
8,900.00	90.00	359.06	5,300.00	3,885.16	-484.63	789,545.92	923,745.24	33.164°N	103.084°W
9,000.00	90.00	359.06	5,300.00	3,985.14	-486.27	789,645.90	923,743.60	33.164°N	103.084°W

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**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
9,100.00	90.00	359.06	5,300.00	4,085.13	-487.91	789,745.89	923,741.96	33.165°N	103.084°W
9,200.00	90.00	359.06	5,300.00	4,185.12	-489.56	789,845.87	923,740.32	33.165°N	103.084°W
9,300.00	90.00	359.06	5,300.00	4,285.10	-491.20	789,945.86	923,738.67	33.165°N	103.084°W
9,400.00	90.00	359.06	5,300.00	4,385.09	-492.84	790,045.85	923,737.03	33.166°N	103.084°W
9,500.00	90.00	359.06	5,300.00	4,485.08	-494.48	790,145.83	923,735.39	33.166°N	103.084°W
9,600.00	90.00	359.06	5,300.00	4,585.06	-496.12	790,245.82	923,733.75	33.166°N	103.084°W
9,700.00	90.00	359.06	5,300.00	4,685.05	-497.76	790,345.81	923,732.11	33.166°N	103.084°W
9,800.00	90.00	359.06	5,300.00	4,785.03	-499.40	790,445.79	923,730.47	33.167°N	103.084°W
9,900.00	90.00	359.06	5,300.00	4,885.02	-501.05	790,545.78	923,728.83	33.167°N	103.084°W
10,000.00	90.00	359.06	5,300.00	4,985.01	-502.69	790,645.77	923,727.18	33.167°N	103.084°W
10,100.00	90.00	359.06	5,300.00	5,084.99	-504.33	790,745.75	923,725.54	33.167°N	103.084°W
10,200.00	90.00	359.06	5,300.00	5,184.98	-505.97	790,845.74	923,723.90	33.168°N	103.084°W
10,300.00	90.00	359.06	5,300.00	5,284.97	-507.61	790,945.72	923,722.26	33.168°N	103.084°W
10,400.00	90.00	359.06	5,300.00	5,384.95	-509.25	791,045.71	923,720.62	33.168°N	103.084°W
10,500.00	90.00	359.06	5,300.00	5,484.94	-510.89	791,145.70	923,718.98	33.169°N	103.084°W
10,600.00	90.00	359.06	5,300.00	5,584.93	-512.54	791,245.68	923,717.34	33.169°N	103.084°W
10,700.00	90.00	359.06	5,300.00	5,684.91	-514.18	791,345.67	923,715.69	33.169°N	103.084°W
10,800.00	90.00	359.06	5,300.00	5,784.90	-515.82	791,445.66	923,714.05	33.169°N	103.084°W
10,900.00	90.00	359.06	5,300.00	5,884.89	-517.46	791,545.64	923,712.41	33.170°N	103.084°W
10,908.59	90.00	359.06	5,300.00	5,893.47	-517.60	791,554.23	923,712.27	33.170°N	103.084°W
TD at 10908.59 MD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL ST #3H - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	785,660.77	924,229.87	33.153°N	103.082°W
FTP ST #3H - plan misses target center by 0.01ft at 5804.76ft MD (5300.00 TVD, 790.33 N, -433.83 E) - Point	0.00	0.00	5,300.00	790.33	-433.83	786,451.10	923,796.04	33.156°N	103.084°W
LTP/PBHL ST #3H - plan hits target center - Point	0.00	0.00	5,300.00	5,893.47	-517.60	791,554.23	923,712.27	33.170°N	103.084°W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,262.57	2,250.00	9 5/8"	9.625	12.250

Planning Report - Geographic

Database:	edmdb	**Local Co-ordinate Reference:**	Well Salamanca State #3H
Company:	Steward Energy II, LLC	**TVD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Project:	Lea County, NM (NAD 83) NM East Zone	**MD Reference:**	GL 3809 + RKB 19 @ 3828.00ft (Norton 8)
Site:	Salamanca State #3H	**North Reference:**	Grid
Well:	Salamanca State #3H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 1.00 at 300 MD
1,052.07	1,049.91	-8.29	-48.59	Start 2499.67 hold at 1052.07 MD
3,551.74	3,528.08	-63.30	-371.10	Start Drop -1.00 at 3551.74 MD
4,303.81	4,277.99	-71.59	-419.68	Start 200.00 hold at 4303.81 MD
4,503.81	4,477.99	-71.59	-419.68	Start Build 8.00 at 4503.81 MD
5,253.81	5,098.24	286.46	-425.56	Start 250.00 hold at 5253.81 MD
5,503.81	5,223.24	502.94	-429.11	Start DLS 10.00 TFO 0.00 at 5503.81 MD
5,803.81	5,300.00	789.38	-433.81	Start 5104.78 hold at 5803.81 MD
10,908.59	5,300.00	5,893.47	-517.60	TD at 10908.59 MD

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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:** 6/21/2023

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
Salamanca State #3H		B-34-13S-38E	696' FNL	500	100	350
			1889'FEL			

IV. Central Delivery Point Name: _____ [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
Salamanca State #3H		8/1/2023	8/15/2023	9/1/2023	n/a (no flowback)	9/2/2023

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: Vanessa De Los Santos
Printed Name: Vanessa De Los Santos
Title: Senior Regulatory Analyst
E-mail Address: vanessa.delossantos@stewardenergy.net
Date: 6/7/2023
Phone: 214-297-0500

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.