Form C-101 August 1, 2011

Permit 341765

Lea

2. OGRID Number

3. API Number

6. Well No.

1864

Feet From

371682

002H

E/W Line

30-025-51641

<u>District I</u> 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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

4. Property Code

В

UL - Lot

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

STEWARD ENERGY II, LLC

5. Property Name

Range

Township

13S

SALAMANCA STATE

38E

Lot Idn

2600 Dallas Parkway

Section

34

Frisco, TX 75034

1. Operator Name and Address

325646

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

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

7. Surface Location

8. Proposed Bottom Hole Location

Feet From

696

N/S Line

| | | | | 8. Proposed E | ottom noie | LUCALIUI | " | | | | |
|------------------|-----------------------|------------------------|-------------------------|----------------------|---------------|-----------|-----------------|-----------|----------------|---------------------|---------------|
| UL - Lot | Section | Township | Range | Lot Idn | Feet From | | N/S Line | Feet Fr | | E/W Line | County |
| В | 27 | 13S | 38E | В | | 100 | N | | 1430 | E | Lea |
| | | | | 9. Poc | l Informatio | n | | | | | |
| BRONCO;SAI | N ANDRES, SOUT | Ή | | | | | | | | 7500 | |
| | | | | Additions | Well Inform | otion | | | | • | |
| 11. Work Type | | 12. Well Type | 13 C | able/Rotary | well illioni | | _ease Type | | 15. Ground Le | evel Flevation | |
| | Well | OIL | 13.0 | able/Itolally | | 14. 2 | Private | | 38 | | |
| 16. Multiple | | 17. Proposed Depti | n 18. Fo | ormation | | 19. 0 | Contractor | | 20. Spud Date | 9 | |
| N | | 10908 | | San Andres | | | | | | /2023 | |
| Depth to Ground | d water | | Distar | ice from nearest fre | sh water well | | | | Distance to ne | arest surface wate | r |
| × | | | Um and miles | | | | | | | | |
| We will be u | sing a closed-loo | p system in lieu of | linea pits | | | | | | | | |
| | | | | 1. Proposed Cas | ing and Cer | nent Pro | gram | | | | |
| Туре | Hole Size | Casing Size | Casi | ng Weight/ft | | etting De | pth | Sack | s 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 |
| | | | Cas | ing/Cement Prog | ram: Additi | onal Cor | mments | | | | |
| TAPPERED P | RODUCTION CAS | SING | | | | | | | | | |
| | | | 2. | 2. Proposed Blov | vout Provor | tion Pro | aram | | | | |
| | Туре | | | ng Pressure | Woul Flevel | tion Fio | Test Pres | sure | | Manı | ıfacturer |
| | Double Ram | | | 3000 | | 1500 | | | | HAFER | |
| | Annular | | | 3000 | | | 1500 | | | | HAFER |
| | 7 tillialai | L | | 3000 | | | 1000 | | L | | D. C. L. C. |
| 23. I hereby ce | ertify that the infor | mation given above | is true and complete | to the best of my | , | | | OIL CONS | ERVATION DI | VISION | |
| knowledge ar | | manon givon abovo | io ti do dira compileto | | | | | 0.2 00.10 | | | |
| I further certif | fy I have complied | d with 19.15.14.9 (A |) NMAC 🛛 and/or 1 | 9.15.14.9 (B) NM | AC | | | | | | |
| ⋈, if applicab | le. | | | | | | | | | | |
| 0: | | | | | | | | | | | |
| Signature: | Electric 1 1 | h. fl. d h. O. W O. | 1 | | | | D. J.E.K | | | | |
| Printed Name: | | ly filed by Scott Stee | aman | | Approve | d By: | Paul F Kau | ITZ | | | |
| Title: | | ice President | | | Title: | <u> </u> | | | | | |
| Email Address: | | an@stewardenergy | | | Approve | | 6/22/2023 | | Exp | oiration Date: 6/22 | 2/2025 |
| Date: | 6/21/2023 | | Phone: 214-297-0 | 514 | Conditi | ons of Ap | pproval Attache | ed | | | |

1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 District III

Phone: (505) 334-6178 Fax: (505) 334-6170

Phone: (505) 476-3460 Fax: (505) 476-3462

District IV

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

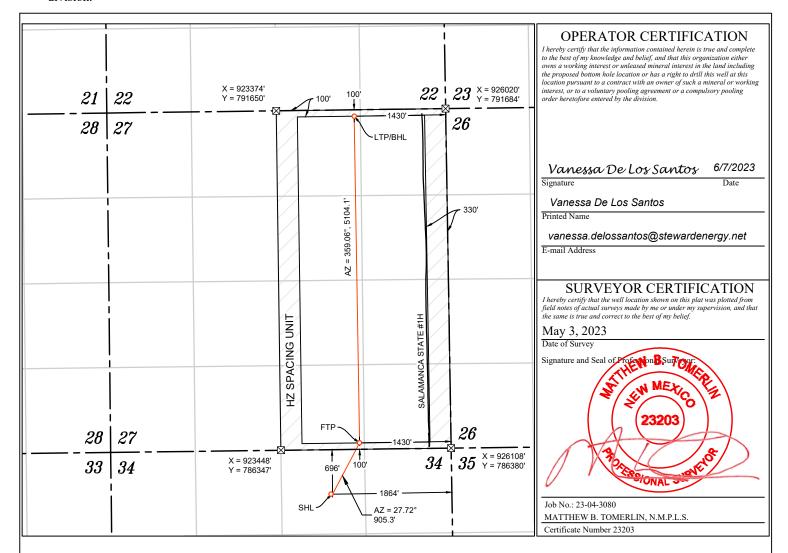
WELL LOCATION AND ACREAGE DEDICATION PLAT

| API Number | | Pool Code | Pool Name | | | |
|---------------|------------------|-----------|---------------------------|-------------|--|--|
| | | | Bronco; San Andres, South | | | |
| Property Code | Property | | y Name | Well Number | | |
| | SALAMANO | | CA STATE | #2H | | |
| OGRID No. | Operate | | or Name | Elevation | | |
| 371682 | STEWARD EN | | NERGY II, LLC | 3810' | | |
| | Surface Location | | | | | |

34 13 S 38 E 696 NORTH 1864 **EAST** LEA В Bottom Hole Location If Different From Surface East/West line UL or lot no 27 13 S 38 E **NORTH EAST** LEA В Dedicated Acres Joint or Infill Order No. solidation Code 320.0

Range

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

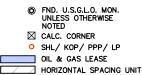


| NAD 83 (SURFACE HOLE LOCATION) |
|--------------------------------|
| LATITUDE = 33.153472° |
| LONGITUDE = -103.082192° |
| NAD 27 (SURFACE HOLE LOCATION) |
| LATITUDE = 33.153365° |
| LONGITUDE = -103.081693° |
| STATE PLANE NAD 83 (N.M. EAST) |
| N: 785660.77' E: 924254.87' |
| STATE PLANE NAD 27 (N.M. EAST) |
| N: 785598.29' E: 883078.89' |

| NAD 83 (FTP) | |
|--------------------------------|--|
| LATITUDE = 33.155660° | |
| LONGITUDE = -103.080785° | |
| NAD 27 (FTP) | |
| LATITUDE = 33.155553° | |
| LONGITUDE = -103.080286° | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 786462.22' E: 924675.97' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N. 796200 74! E. 992400 00! | |

| NAD 83 (LTP/BHL) | |
|--------------------------------|--|
| LATITUDE = 33.169686° | |
| LONGITUDE = -103.080860° | |
| NAD 27 (LTP/BHL) | |
| LATITUDE = 33.169579° | |
| LONGITUDE = -103.080361° | |
| STATE PLANE NAD 83 (N.M. EAST) | |
| N: 791565.64' E: 924592.20' | |
| STATE PLANE NAD 27 (N.M. EAST) | |
| N: 791503.02' E: 883416.25' | |

| APPROXIMATE WELL BORE DISTANCE FROM FTP TO LTP | | | | |
|---|--|--|--|--|
| 5104.11' | | | | |
| 5104.11 | | | | |
| | | | | |



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.

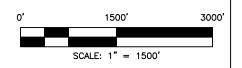


EXHIBIT 1 LOCATION & ELEVATION VERIFICATION MAP



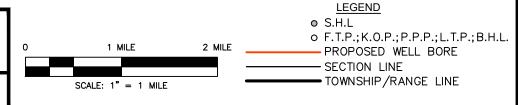


LEASE NAME AND WELL NUMBER: SALAMANCA STATE #2H LATITUDE: N 33.153472 LONGITUDE: W 103.082192 ELEVATION: 3810' DESCRIPTION: $\underline{696'}$ FNL & 1864' FEL



2:\2023\STEWARD ENERGY\23-04-3080 — SALAMANCA STATE #2H & #3H WELIS\PLATS\FED PACKET\SALAMANCA STATE #2H\LOCATION ELEVATION MAP\NM—LOCATION ELEVATION MAP\NM—LOCATION ELEVATION MAP

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





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

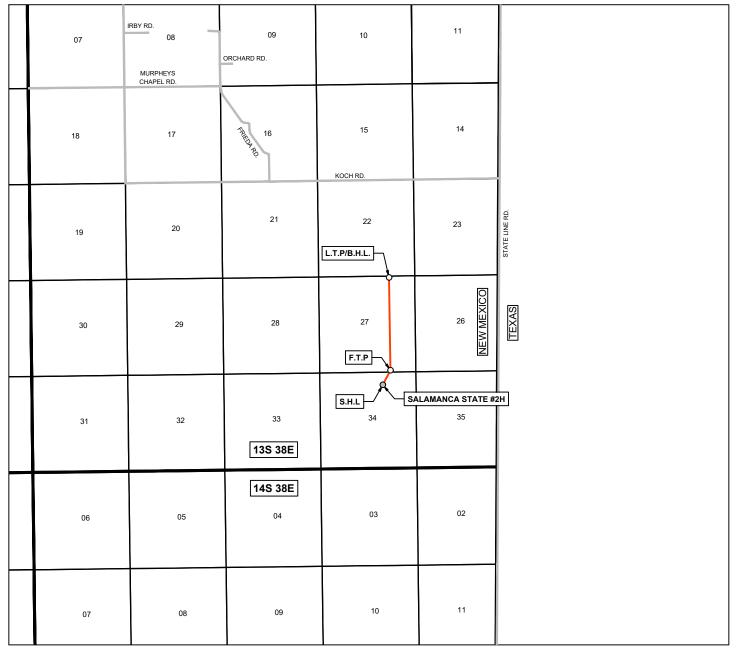
 DRAWN BY: JH
 DATE: 05/02/2023
 REV.

 CHECKED BY: JW
 DATE: 05/02/2023
 0

 AFE#
 PROJECT ID: 23-04-3080
 PAGE 1 OF 1

EXHIBIT 2 VICINITY MAP

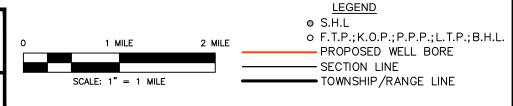




LEASE NAME AND WELL NUMBER: <u>SALAMANCA STATE #2H</u>
LATITUDE: <u>N 33.153472</u> LONGITUDE: <u>W 103.082192</u> ELEVATION: <u>3810'</u> DESCRIPTION: 696' FNL & 1864' FEL



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





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

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

Z:\2023\STEWARD ENERGY\23-04-3080 - SALAMANCA STATE #2H & #ELS\PLATS\FED PACKET\SALAMANCA STATE #2H\WCNITY MAP\VM-VICINITY MAP\SALAMANCA STATE #2H.DWG

<u>District I</u> 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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 APD Comments

Permit 341765

PERMIT COMMENTS

| Operator Name and Address: | API Number: |
|---------------------------------|-----------------------|
| STEWARD ENERGY II, LLC [371682] | 30-025-51641 |
| 2600 Dallas Parkway | Well: |
| Frisco, TX 75034 | SALAMANCA STATE #002H |

| Created By | Comment | Comment Date |
|------------|--|--------------|
| vlopez | TAPPERED PRODUCTION CASING | 6/14/2023 |
| pkautz | Fee Cancellation - Timed out before operator could make payment. | 6/21/2023 |

<u>District I</u> 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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 APD Conditions

Permit 341765

PERMIT CONDITIONS OF APPROVAL

| Operator Name and Address: | API Number: |
|---------------------------------|-----------------------|
| STEWARD ENERGY II, LLC [371682] | 30-025-51641 |
| 2600 Dallas Parkway | Well: |
| Frisco, TX 75034 | SALAMANCA STATE #002H |

| 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 |

Easting 924254.87 924675.97 924592.20

> VSect 0.00 0.00 -8.11 -58.54 -66.65 -66.65 291.45

507.96

794.44

5898.55

Steward Energy II, LLC

DrilTech, LLC

Steward Energy II, LLC Salamanca State #2H Wellbore #1 Plan #1 Norton 8





WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| | SURFACE | LOCATION | | | | |
|---------------------|--------------------------|--------------------------|-----------|--|--|--|
| US State Plane 1983 | | | | | | |
| | New Mexico | Eastern Zone | | | | |
| | Elevation: GL 3810 + RKB | 19 @ 3829.00ft (Norton 8 | 3) | | | |
| Northing | Easting | Latittude | Longitude | | | |
| 785660.77 | 924254.87 | 33.153°N | 103.082°W | | | |
| | | | | | | |
| | | | | | | |

| Name SHL ST #2H FTP ST #2H LTP/PBHL ST #2H | | | TVD 0.00 5300.00 5300.00 | +N/-S 0.00 801.45 5904.88 | +E/-W 0.00 421.10 337.33 | 7856 7864 | rthing 60.77 62.22 65.64 |
|---|---------|-------|-----------------------------------|------------------------------------|-----------------------------------|--------------|-----------------------------------|
| | | | | SECTION I | DETAILS | | |
| | MD | Inc | Azi | TVD | +N/-S | +E/-W | Dle |
| l | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Ó.00 | 0.00 |
| | 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 0.00 |
| | 1083.20 | 7.83 | 97.79 | 1080.77 | -7.24 | 52.95 | 1.00 |
| | 3522.41 | 7.83 | 97.79 | 3497.22 | -52.27 | 382.28 | 0.00 |
| | 4305.62 | 0.00 | 0.00 | 4277.99 | -59.51 | 435.23 | 1.00 |
| | 4505.62 | 0.00 | 0.00 | 4477.99 | -59.51 | 435.23 | 0.00 |
| | 5255.62 | 60.00 | 359.06 | 5098.24 | 298.54 | 429.36 | 8.00 |
| | 5505.62 | 60.00 | 359.06 | 5223.24 | 515.01 | 425.81 | 0.00 |
| | | | | | | | |

5300.00

5300.00

801.45

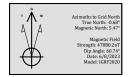
5904.88

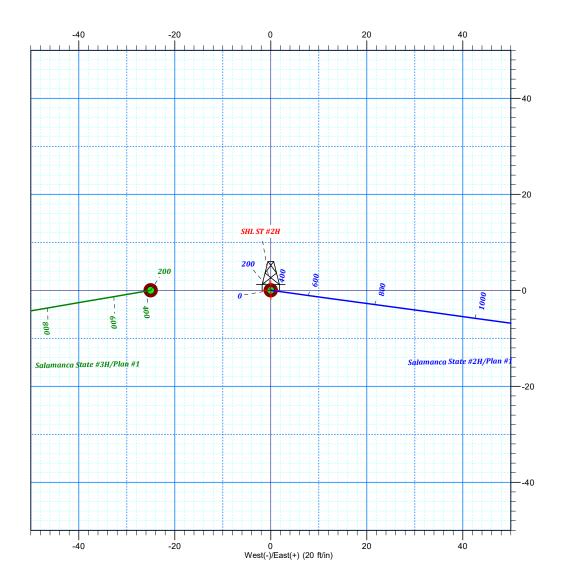
421.11

337.33

10.00

0.00





5805.62

10909.73

90.00

90.00

359.06

359.06

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone Salamanca State #2H Salamanca State #2H

Wellbore #1 Plan #1

Anticollision Report

08 June, 2023

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Well Salamanca State #2H

: Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Database:edmdbOffset TVD Reference:Offset Datum

Reference Plan #1

Filter type: NO GLOBAL FILTER: Using user defined selection & filtering criteria

Interpolation Method: Stations Error Model: ISCWSA

 Depth Range:
 Unlimited
 Scan Method:
 Closest Approach 3D

 Results Limited by:
 Maximum centre distance of 1,000.00ft
 Error Surface:
 Pedal Curve

 Warning Levels Evaluated at:
 2.00 Sigma
 Casing Method:
 Not applied

Survey Tool Program Date 6/8/2023

From To

(ft) Survey (Wellbore) Tool Name Description

0.00 10,909.73 Plan #1 (Wellbore #1) MWD MWD - Standard

| ite Name Offset Well - Wellbore - Design | Reference Measured Depth (ft) | Offset Measured Depth (ft) | Distar Between Centres (ft) | nce Between Ellipses (ft) | Separation Factor | Warning |
|---|--|-------------------------------------|--------------------------------------|------------------------------------|------------------------------------|---------|
| Combo Fee #2H | | | | | | |
| Combo Fee #2H - Wellbore #1 - Wellbore #1 | 10,910.48 | 11,006.00 | 158.52 | 95.86 | 2.530 CC, ES | S, SF |
| Combo Fee 1H | | | | | | |
| Combo Fee 1H - Pilot - Pilot Combo Fee 1H - Sidetrack - Sidetrack | | | | | Out of Out of | · · |
| Combo Fee 3H | | | | | | |
| Combo Fee 3H - Wellbore #1 - Plan #1 Pre Combo Fee 3H - Wellbore #1 - Plan #1 Pre | 10,845.70 10,910.48 | 5,561.89 5,621.71 | 865.54 865.84 | 745.44 744.21 | 7.207 CC 7.119 ES, SF | : |
| Heisenberg State 3H | | | | | | |
| Heisenberg State 3H - Heisenberg St.3H Lateral (STK) - Heisenberg State 3H - Heisenberg St.3H Lateral (STK) - Heisenberg State 3H - Pilot Hole - Pilot Hole | 5,550.00 5,550.04 | 13,156.00 13,156.00 | 577.13 577.13 | 420.89 420.89 | 3.694 CC 3.694 ES, SF Out of | |
| Heisenberg State Com | | | | | | |
| Heisenberg State Com 1H - Wellbore #1 - Wellbore #1 Heisenberg State Com 2H - Wellbore #1 - Wellbore #1 | 5,691.28 | 13,830.00 | 294.84 | 130.70 | Out of 1.796 CC, ES | O |
| Roof Pizza Fee 4H | | | | | | |
| Roof Pizza Fee 4H - Wellbore #1 - Plan #1 PRE | | | | | Out of | range |
| Salamanca State #3H | | | | | | |
| Salamanca State #3H - Wellbore #1 - Plan #1 Salamanca State #3H - Wellbore #1 - Plan #1 | 300.00 10,910.48 | 299.00 10,906.30 | 25.00 880.00 | 22.99 678.96 | 12.431 CC, ES 4.377 SF | 8 |
| Salamanca State 1H | | | | | | |
| Salamanca State 1H - Wellbore #1 - Wellbore #1 | | | | | Out of | range |
| Vamonos Fee 5H | | | | | | |
| Vamonos Fee 5H - Wellbore #1 - Wellbore #1 | | | | | Out of | range |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H Reference Site:

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft Wellbore #1 Reference Wellbore Reference Design: Plan #1

Local Co-ordinate Reference:

Well Salamanca State #2H TVD Reference: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8) MD Reference:

North Reference:

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma edmdb Database: Offset TVD Reference: Offset Datum

| Offset Des | sign: Co | ilibo ree # | 2H - COIII | DO FEE #2F | i - wellbo | re #1 - Wellb | 016 #1 | | | | | C | Offset Site Error: | 0.00 f |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|--------|
| Survey Progra | ence | 1-MWD Off | | Semi M | /lajor Axis | | Offset Wellbo | ore Centre | Dist | Rule Assi | | C | ffset Well Error: | 0.00 f |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 10,100.00 | 5,300.00 | 11,006.00 | 5,359.23 | 87.41 | 101.22 | -160.87 | 6,048.46 | 312.70 | 956.11 | 913.87 | 42.24 | 22.634 | | |
| 10,200.00 | 5,300.00 | 11,006.00 | 5,359.23 | 89.04 | 101.22 | -160.87 | 6,048.46 | 312.70 | 856.39 | 813.89 | 42.50 | 20.150 | | |
| 10,300.00 | 5,300.00 | 11,006.00 | 5,359.23 | 90.68 | 101.22 | -160.87 | 6,048.46 | 312.70 | 756.75 | 713.91 | 42.84 | 17.666 | | |
| 10,400.00 | 5,300.00 | 11,006.00 | 5,359.23 | 92.32 | 101.22 | -160.87 | 6,048.46 | 312.70 | 657.22 | 613.92 | 43.30 | 15.179 | | |
| 10,500.00 | 5,300.00 | 11,006.00 | 5,359.23 | 93.95 | 101.22 | -160.87 | 6,048.46 | 312.70 | 557.85 | 513.88 | 43.97 | 12.686 | | |
| 10,600.00 | 5,300.00 | 11,006.00 | 5,359.23 | 95.59 | 101.22 | -160.87 | 6,048.46 | 312.70 | 458.76 | 413.72 | 45.04 | 10.186 | | |
| 10,700.00 | 5,300.00 | 11,006.00 | 5,359.23 | 97.23 | 101.22 | -160.87 | 6,048.46 | 312.70 | 360.16 | 313.24 | 46.92 | 7.676 | | |
| 10,800.00 | 5,300.00 | 11,006.00 | 5,359.23 | 98.88 | 101.22 | -160.87 | 6,048.46 | 312.70 | 262.64 | 211.84 | 50.80 | 5.170 | | |
| 10,909.73 | 5,300.00 | 11,006.00 | 5,359.23 | 100.68 | 101.22 | -160.87 | 6,048.46 | 312.70 | 159.20 | 96.68 | 62.53 | 2.546 | | |
| 10,910.48 | 5,300.00 | 11,006.00 | 5,359.23 | 100.69 | 101.22 | -160.87 | 6,048.46 | 312.70 | 158.52 | 95.86 | 62.67 | 2.530 CC, ES, | SF | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H Reference Site:

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft Wellbore #1 Reference Wellbore Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Well Salamanca State #2H

Survey Calculation Method: Minimum Curvature 2.00 sigma

Output errors are at

edmdb Database: Offset TVD Reference: Offset Datum

| Offset Des | sign: Co | mbo Fee 3 | H - Comb | o Fee 3H - | Wellbore | #1 - Plan #1 | Pre | | | | | | Offset Site Error: | 0.00 ft |
|-------------------|-------------------|-------------------|-------------------|------------|------------|----------------------|---------------|------------|--------------------|---------------------|-----------------------|----------------------|--------------------|---------|
| | rence | -MWD Off | | | Major Axis | | Offset Wellbo | ore Centre | Dist | Rule Assi | • | | Offset Well Error: | 0.00 ft |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | +N/-S | +E/-W | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 10,100.00 | 5,300.00 | 5,050.00 | 5,000.16 | 87.41 | 17.71 | -71.36 | 5,407.47 | -519.59 | 969.49 | 872.26 | 97.23 | 9.971 | | |
| 10,200.00 | 5,300.00 | 5,100.00 | 5,036.58 | 89.04 | 17.90 | -73.55 | 5,441.71 | -520.20 | 938.86 | 837.80 | 101.06 | 9.290 | | |
| 10,300.00 | 5,300.00 | 5,150.00 | 5,070.51 | 90.68 | 18.12 | -75.64 | 5,478.41 | -520.85 | 914.53 | 809.92 | 104.61 | 8.742 | | |
| 10,348.68 | 5,300.00 | 5,172.66 | 5,085.03 | 91.48 | 18.22 | -76.55 | 5,495.80 | -521.16 | 904.88 | 798.68 | 106.19 | 8.521 | | |
| 10,400.00 | 5,300.00 | 5,200.00 | 5,101.81 | 92.32 | 18.35 | -77.60 | 5,517.39 | -521.54 | 896.21 | 788.41 | 107.80 | 8.314 | | |
| 10,445.88 | 5,300.00 | 5,231.31 | 5,119.99 | 93.07 | 18.51 | -78.75 | 5,542.87 | -521.99 | 889.67 | 780.44 | 109.24 | 8.145 | | |
| 10,500.00 | 5,300.00 | 5,267.12 | 5,139.39 | 93.95 | 18.69 | -80.00 | 5,572.96 | -522.52 | 883.34 | 772.53 | 110.81 | 7.972 | | |
| 10,544.12 | 5,300.00 | 5,301.01 | 5,156.52 | 94.68 | 18.88 | -81.10 | 5,602.19 | -523.04 | 879.15 | 767.07 | 112.08 | 7.844 | | |
| 10,600.00 | 5,300.00 | 5,349.40 | 5,180.71 | 95.59 | 19.17 | -82.67 | 5,644.10 | -523.78 | 874.69 | 760.97 | 113.72 | 7.692 | | |
| 10,643.66 | 5,300.00 | 5,387.21 | 5,199.62 | 96.31 | 19.40 | -83.91 | 5,676.83 | -524.36 | 871.80 | 756.86 | 114.94 | 7.585 | | |
| 10,700.00 | 5,300.00 | 5,436.00 | 5,224.02 | 97.23 | 19.73 | -85.51 | 5,719.08 | -525.11 | 868.88 | 752.40 | 116.48 | 7.459 | | |
| 10,744.24 | 5,300.00 | 5,474.32 | 5,243.17 | 97.96 | 20.00 | -86.77 | 5,752.26 | -525.70 | 867.22 | 749.58 | 117.64 | 7.372 | | |
| 10,800.00 | 5,300.00 | 5,522.61 | 5,267.32 | 98.88 | 20.34 | -88.37 | 5,794.07 | -526.44 | 865.93 | 746.90 | 119.02 | 7.275 | | |
| 10,845.70 | 5,300.00 | 5,561.89 | 5,286.39 | 99.63 | 20.65 | -89.63 | 5,828.41 | -527.05 | 865.54 | 745.44 | 120.10 | 7.207 CC | | |
| 10,909.73 | 5,300.00 | 5,620.99 | 5,310.69 | 100.68 | 21.12 | -91.24 | 5,882.24 | -528.01 | 865.83 | 744.22 | 121.61 | 7.120 | | |
| 10,909.76 | 5,300.00 | 5,621.01 | 5,310.70 | 100.68 | 21.12 | -91.24 | 5,882.26 | -528.01 | 865.84 | 744.22 | 121.61 | 7.120 | | |
| 10,910.48 | 5,300.00 | 5,621.71 | 5,310.96 | 100.69 | 21.13 | -91.25 | 5,882.91 | -528.02 | 865.84 | 744.21 | 121.63 | 7.119 ES, SI | = | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Well Salamanca State #2H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma
Database: edmdb
Offset TVD Reference: Offset Datum

| Offset Des | sign: Hei | isenberg S | tate 3H - | Heisenberg | State 3H | - Heisenber | g St.3H Latera | I (STK) - He | eisenberg S | St.3H Late | ral (STK) | | Offset Site Error: | 0.00 ft |
|-------------------|----------------------------|--------------------------|--------------------------|------------|----------------------|----------------------|----------------|--------------|--------------------|-----------------------------|-----------------------|----------------------|--------------------|---------|
| Survey Progr | | -CB_Film_GM | | | | | | | | Rule Assi | gned: | | Offset Well Error: | 0.00 ft |
| Measured Depth | rence Vertical Depth | Off Measured Depth | set Vertical Depth | Reference | lajor Axis Offset | Highside Toolface | Offset Wellbo | +E/-W | Between Centres | ance Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 4,550.00 | 4,522.34 | 12,589.97 | 5,306.85 | 17.65 | 126.84 | -93.96 | -58.70 | -146.91 | 985.34 | 885.56 | 99.78 | 9.875 | | |
| 4,600.00 | 4,572.10 | 12,595.47 | 5,306.86 | 17.80 | 126.93 | -98.63 | -53.21 | -146.90 | 945.61 | 843.25 | 102.36 | 9.238 | | |
| 4,650.00 | 4,621.40 | 12,604.60 | 5,306.86 | 17.95 | 127.08 | -102.51 | -44.07 | -146.89 | 907.17 | 802.02 | 105.14 | 8.628 | | |
| 4,700.00 | 4,670.00 | 12,617.19 | 5,306.83 | 18.09 | 127.28 | -105.62 | -31.49 | -146.89 | 870.30 | 762.17 | 108.13 | 8.049 | | |
| 4,750.00 | 4,717.66 | 12,633.04 | 5,306.73 | 18.23 | 127.54 | -108.03 | -15.63 | -146.93 | 835.24 | 723.95 | 111.29 | 7.505 | | |
| 4,800.00 | 4,764.15 | 12,651.99 | 5,306.54 | 18.37 | 127.85 | -109.80 | 3.31 | -147.03 | 802.24 | 687.63 | 114.61 | 7.000 | | |
| 4,850.00 | 4,809.25 | 12,674.67 | 5,306.22 | 18.50 | 128.23 | -110.95 | 25.99 | -147.18 | 771.49 | 653.43 | 118.06 | 6.535 | | |
| 4,900.00 | 4,852.74 | 12,700.57 | 5,305.80 | 18.63 | 128.65 | -111.58 | 51.89 | -147.31 | 743.14 | 621.55 | 121.59 | 6.112 | | |
| 4,950.00 | 4,894.40 | 12,729.46 | 5,305.25 | 18.75 | 129.13 | -111.77 | 80.77 | -147.42 | 717.30 | 592.16 | 125.14 | 5.732 | | |
| 5,000.00 | 4,934.04 | 12,760.65 | 5,304.57 | 18.86 | 129.64 | -111.59 | 111.96 | -147.49 | 694.04 | 565.38 | 128.66 | 5.394 | | |
| 5,050.00 | 4,971.45 | 12,793.98 | 5,303.91 | 18.98 | 130.19 | -111.13 | 145.28 | -147.47 | 673.40 | 541.31 | 132.09 | 5.098 | | |
| 5,100.00 | 5,006.45 | 12,830.17 | 5,303.29 | 19.10 | 130.78 | -110.37 | 181.46 | -147.32 | 655.33 | 519.97 | 135.36 | 4.841 | | |
| 5,150.00 | 5,038.89 | 12,866.87 | 5,302.76 | 19.23 | 131.38 | -109.51 | 218.16 | -147.09 | 639.75 | 501.31 | 138.44 | 4.621 | | |
| 5,200.00 | 5,068.59 | 12,904.94 | 5,302.26 | 19.38 | 132.01 | -108.53 | 256.22 | -146.94 | 626.62 | 485.31 | 141.31 | 4.434 | | |
| 5,250.00 | 5,095.41 | 12,945.74 | 5,301.77 | 19.55 | 132.68 | -107.39 | 297.03 | -146.87 | 615.77 | 471.81 | 143.95 | 4.278 | | |
| 5,255.62 | 5,098.24 | 12,950.74 | 5,301.71 | 19.58 | 132.76 | -107.25 | 302.02 | -146.86 | 614.68 | 470.44 | 144.24 | 4.262 | | |
| 5,300.00 | 5,120.43 | 12,990.25 | 5,301.21 | 19.76 | 133.41 | -105.42 | 341.53 | -146.76 | 606.46 | 460.03 | 146.43 | 4.142 | | |
| 5,400.00 | 5,170.43 | 13,075.59 | 5,299.96 | 20.30 | 134.81 | -101.33 | 426.86 | -146.42 | 590.58 | 439.50 | 151.07 | 3.909 | | |
| 5,505.62 | 5,223.24 | 13,156.00 | 5,298.67 | 20.99 | 136.13 | -97.33 | 507.26 | -146.34 | 578.62 | 423.31 | 155.30 | 3.726 | | |
| 5,550.00 | 5,243.92 | 13,156.00 | 5,298.67 | 21.32 | 136.13 | -97.48 | 507.26 | -146.34 | 577.13 | 420.89 | 156.24 | 3.694 CC | | |
| 5,550.04 | 5,243.93 | 13,156.00 | 5,298.67 | 21.32 | 136.13 | -97.48 | 507.26 | -146.34 | 577.13 | 420.89 | 156.24 | 3.694 ES, SI | = | |
| 5,600.00 | 5,263.50 | 13,156.00 | 5,298.67 | 21.72 | 136.13 | -97.18 | 507.26 | -146.34 | 580.07 | 423.81 | 156.26 | 3.712 | | |
| 5,650.00 | 5,278.99 | 13,156.00 | 5,298.67 | 22.13 | 136.13 | -96.41 | 507.26 | -146.34 | 587.81 | 432.58 | 155.23 | 3.787 | | |
| 5,700.00 | 5,290.29 | 13,156.00 | 5,298.67 | 22.57 | 136.13 | -95.15 | 507.26 | -146.34 | 600.09 | 446.86 | 153.23 | 3.916 | | |
| 5,750.00 | 5,297.30 | 13,156.00 | 5,298.67 | 23.03 | 136.13 | -93.40 | 507.26 | -146.34 | 616.55 | 466.10 | 150.45 | 4.098 | | |
| 5,800.00 | 5,299.97 | 13,156.00 | 5,298.67 | 23.50 | 136.13 | -91.20 | 507.26 | -146.34 | 636.76 | 489.68 | 147.08 | 4.329 | | |
| 5,805.62 | 5,300.00 | 13,156.00 | 5,298.67 | 23.55 | 136.13 | -90.92 | 507.26 | -146.34 | 639.24 | 492.57 | 146.67 | 4.358 | | |
| 5,900.00 | 5,300.00 | 13,156.00 | 5,298.67 | 24.49 | 136.13 | -90.92 | 507.26 | -146.34 | 686.52 | 547.19 | 139.33 | 4.927 | | |
| 6,000.00 | 5,300.00 | 13,156.00 | 5,298.67 | 25.55 | 136.13 | -90.92 | 507.26 | -146.34 | 746.43 | 615.28 | 131.15 | 5.692 | | |
| 6,100.00 | 5,300.00 | 13,156.00 | 5,298.67 | 26.67 | 136.13 | -90.92 | 507.26 | -146.34 | 814.25 | 691.02 | 123.22 | 6.608 | | |
| 6,200.00 | 5,300.00 | 13,156.00 | 5,298.67 | 27.84 | 136.13 | -90.92 | 507.26 | -146.34 | 888.17 | 772.26 | 115.90 | 7.663 | | |
| 6,300.00 | 5,300.00 | 13,156.00 | 5,298.67 | 29.07 | 136.13 | -90.92 | 507.26 | -146.34 | 966.79 | 857.46 | 109.33 | 8.843 | | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Well Salamanca State #2H

Grid

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma
Database: edmdb
Offset TVD Reference: Offset Datum

| | | | | | | | | | | | | | Offset Site Error: | 0.00 |
|---------------------------|---------------------------|---------------------------|---------------------------|-------------------|----------------|-----------------------------|---------------|---------------|----------------------------|-----------------------------|-------------------------------|----------------------|--------------------|------|
| | rence | 18-MWD Off | | | Major Axis | IIIb.a.l.d.a | Offset Wellbe | ore Centre | | Rule Assi | _ | | Offset Well Error: | 0.00 |
| Measured Depth (ft) | Vertical Depth (ft) | Measured Depth (ft) | Vertical Depth (ft) | Reference (ft) | Offset (ft) | Highside Toolface (°) | +N/-S (ft) | +E/-W (ft) | Between Centres (ft) | Between Ellipses (ft) | Minimum Separation (ft) | Separation Factor | Warning | |
| 4,505.62 | 4,477.99 | 13,107.07 | 5,372.86 | 17.51 | 136.30 | 87.40 | -46.97 | 711.73 | 944.35 | 863.52 | 80.83 | 11.683 | | |
| 4,550.00 | 4,522.34 | 13,107.77 | 5,372.85 | 17.65 | 136.31 | 99.41 | -46.27 | 711.74 | 902.02 | 820.14 | 81.88 | 11.016 | | |
| 4,600.00 | 4,572.10 | 13,112.26 | 5,372.77 | 17.80 | 136.39 | 109.74 | -41.78 | 711.79 | 854.77 | 771.52 | 83.25 | 10.267 | | |
| 4,650.00 | 4,621.40 | 13,117.94 | 5,372.68 | 17.95 | 136.48 | 118.08 | -36.10 | 711.85 | 808.23 | 723.44 | 84.79 | 9.532 | | |
| 4,700.00 | 4,670.00 | 13,127.30 | 5,372.55 | 18.09 | 136.63 | 124.22 | -26.74 | 711.93 | 762.72 | 676.14 | 86.58 | 8.810 | | |
| 4,750.00 | 4,717.66 | 13,139.82 | 5,372.42 | 18.23 | 136.84 | 128.70 | -14.22 | 712.02 | 718.51 | 629.90 | 88.61 | 8.108 | | |
| 1,7 00.00 | 1,1 11.00 | 10,100.02 | 0,072.72 | 10.20 | 100.01 | 120.10 | | 7.12.02 | 7 10.01 | 020.00 | 00.01 | 0.100 | | |
| 4,800.00 | 4,764.15 | 13,155.54 | 5,372.33 | 18.37 | 137.10 | 131.88 | 1.49 | 712.09 | 675.92 | 584.99 | 90.92 | 7.434 | | |
| 4,850.00 | 4,809.25 | | 5,372.31 | 18.50 | 137.41 | 134.07 | 20.44 | 712.13 | 635.23 | 541.70 | 93.53 | 6.792 | | |
| 4,900.00 | 4,852.74 | 13,196.65 | 5,372.43 | 18.63 | 137.77 | 135.48 | 42.61 | 712.10 | 596.73 | 500.29 | 96.44 | 6.187 | | |
| 4,950.00 | 4,894.40 | 13,225.69 | 5,372.72 | 18.75 | 138.25 | 135.96 | 71.64 | 711.96 | 560.63 | 460.88 | 99.75 | 5.621 | | |
| 5,000.00 | 4,934.04 | 13,259.79 | 5,372.93 | 18.86 | 138.81 | 135.81 | 105.75 | 711.66 | 526.90 | 423.48 | 103.42 | 5.095 | | |
| -, | ., | , | -, | | | | | | | | | | | |
| 5,050.00 | 4,971.45 | 13,296.43 | 5,372.97 | 18.98 | 139.42 | 135.28 | 142.38 | 711.19 | 495.66 | 388.27 | 107.39 | 4.615 | | |
| 5,100.00 | 5,006.45 | 13,333.98 | 5,372.85 | 19.10 | 140.04 | 134.55 | 179.92 | 710.57 | 467.06 | 355.48 | 111.58 | 4.186 | | |
| 5,150.00 | 5,038.89 | 13,373.62 | 5,372.63 | 19.23 | 140.69 | 133.55 | 219.56 | 709.80 | 441.25 | 325.30 | 115.95 | 3.806 | | |
| 5,200.00 | 5,068.59 | 13,416.08 | 5,372.21 | 19.38 | 141.40 | 132.28 | 262.00 | 708.88 | 418.24 | 297.79 | 120.45 | 3.472 | | |
| 5,250.00 | 5,095.41 | 13,460.69 | 5,371.04 | 19.55 | 142.13 | 130.74 | 306.59 | 708.24 | 397.92 | 272.81 | 125.12 | 3.180 | | |
| | ., | ., | .,. | | | | | | | | | | | |
| 5,255.62 | 5,098.24 | 13,465.76 | 5,370.85 | 19.58 | 142.22 | 130.55 | 311.66 | 708.19 | 395.81 | 270.16 | 125.64 | 3.150 | | |
| 5,300.00 | 5,120.43 | 13,503.63 | 5,369.15 | 19.76 | 142.84 | 128.00 | 349.49 | 708.00 | 379.54 | 249.59 | 129.95 | 2.921 | | |
| 5,400.00 | 5,170.43 | 13,581.52 | 5,367.07 | 20.30 | 144.13 | 122.36 | 427.35 | 707.57 | 347.05 | 207.19 | 139.86 | 2.481 | | |
| 5,505.62 | 5,223.24 | 13,672.72 | 5,366.51 | 20.99 | 145.63 | 115.08 | 518.55 | 706.82 | 319.16 | 168.34 | 150.82 | 2.116 | | |
| 5,550.00 | 5,243.92 | 13,712.48 | 5,366.14 | 21.32 | 146.29 | 112.71 | 558.30 | 706.48 | 310.02 | 154.87 | 155.15 | 1.998 | | |
| 5,600.00 | 5,263.50 | 13,758.91 | 5,365.27 | 21.72 | 147.06 | 110.05 | 604.72 | 706.14 | 302.39 | 143.05 | 159.34 | 1.898 | | |
| 5,650.00 | 5,278.99 | | 5,364.02 | 22.13 | 147.84 | 107.64 | 651.99 | 705.85 | 297.18 | 134.39 | 162.79 | 1.826 | | |
| 5,691.28 | 5,288.63 | 13,830.00 | 5,363.38 | 22.50 | 148.23 | 106.64 | 675.78 | 705.70 | 294.84 | 130.70 | 164.15 | 1.796 CC, ES, | SE | |
| 5,700.00 | 5,290.29 | 13,830.00 | 5,363.38 | 22.57 | 148.23 | 106.63 | 675.78 | 705.70 | 294.99 | 131.09 | 163.89 | 1.800 | OI . | |
| 5,700.05 | 5,290.30 | 13,830.00 | 5,363.38 | 22.57 | 148.23 | 106.63 | 675.78 | 705.70 | 294.99 | 131.10 | 163.89 | 1.800 | | |
| 3,700.03 | 3,230.30 | 13,030.00 | 0,000.00 | 22.51 | 140.23 | 100.03 | 013.10 | 103.10 | 204.00 | 131.10 | 103.03 | 1.000 | | |
| 5,750.00 | 5,297.30 | 13,830.00 | 5,363.38 | 23.03 | 148.23 | 106.00 | 675.78 | 705.70 | 301.47 | 141.58 | 159.89 | 1.886 | | |
| 5,800.00 | 5,299.97 | 13,830.00 | 5,363.38 | 23.50 | 148.23 | 104.42 | 675.78 | 705.70 | 316.94 | 164.63 | 152.31 | 2.081 | | |
| 5,805.62 | 5,300.00 | 13,830.00 | 5,363.38 | 23.55 | 148.23 | 104.18 | 675.78 | 705.70 | 319.19 | 167.88 | 151.31 | 2.110 | | |
| 5,900.00 | 5,300.00 | 13,830.00 | 5,363.38 | 24.49 | 148.23 | 104.18 | 675.78 | 705.70 | 367.96 | 235.07 | 132.89 | 2.769 | | |
| 6,000.00 | 5,300.00 | 13,830.00 | 5,363.38 | 25.55 | 148.23 | 104.18 | 675.78 | 705.70 | 436.27 | 321.79 | 114.48 | 3.811 | | |
| 3,000.00 | 0,000.00 | .0,000.00 | 3,000.00 | 20.00 | | | 3.30 | | .00.27 | 020 | | 0.011 | | |
| 6,100.00 | 5,300.00 | 13,830.00 | 5,363.38 | 26.67 | 148.23 | 104.18 | 675.78 | 705.70 | 515.05 | 415.42 | 99.63 | 5.169 | | |
| 6,200.00 | 5,300.00 | 13,830.00 | 5,363.38 | 27.84 | 148.23 | 104.18 | 675.78 | 705.70 | 600.18 | 511.95 | 88.23 | 6.802 | | |
| 6,300.00 | 5,300.00 | 13,830.00 | 5,363.38 | 29.07 | 148.23 | 104.18 | 675.78 | 705.70 | 689.32 | 609.77 | 79.54 | 8.666 | | |
| 6,400.00 | 5,300.00 | 13,830.00 | 5,363.38 | 30.33 | 148.23 | 104.18 | 675.78 | 705.70 | 781.09 | 708.21 | 72.88 | 10.718 | | |
| 6,500.00 | 5,300.00 | 13,830.00 | 5,363.38 | 31.64 | 148.23 | 104.18 | 675.78 | 705.70 | 874.67 | 806.96 | 67.71 | 12.918 | | |
| | | | | | | | | | | | | | | |
| 6,600.00 | 5,300.00 | 13,830.00 | 5,363.38 | 32.97 | 148.23 | 104.18 | 675.78 | 705.70 | 969.53 | 905.87 | 63.66 | 15.230 | | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

Minimum Curvature

2.00 sigma edmdb Offset Datum

| irvey Progr | ram: 0- | -MWD | | | | | | | | Rule Assi | aned: | | Offset Well Error: | 0.00 |
|-------------|-----------|----------|----------|-----------|------------|----------|---------------|--------------------|---------|-----------|------------|------------|--------------------|------|
| | rence | | fset | Semi N | lajor Axis | | Offset Wellb | ore Centre | Dist | ance | gneu. | | Oliset Well Ellor. | 0.0 |
| Measured | Vertical | Measured | Vertical | Reference | Offset | Highside | | | Between | Between | Minimum | Separation | Warning | |
| Depth | Depth | Depth | Depth | (54) | (54) | Toolface | +N/-S (ft) | +E/-W (ft) | Centres | Ellipses | Separation | Factor | | |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | | | (ft) | (ft) | (ft) | | | |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -90.00 | 0.00 | -25.00 | 25.02 | 04.40 | 0.50 | 40.000 | | |
| 100.00 | 100.00 | 99.00 | 99.00 | 0.29 | 0.29 | -90.00 | 0.00 | -25.00 | 25.00 | 24.42 | 0.58 | 43.266 | | |
| 200.00 | 200.00 | 199.00 | 199.00 | 0.65 | 0.65 | -90.00 | 0.00 | -25.00 | 25.00 | 23.71 | 1.29 | 19.319 | | |
| 300.00 | 300.00 | 299.00 | 299.00 | 1.01 | 1.00 | -90.00 | 0.00 | -25.00 | 25.00 | 22.99 | 2.01 | 12.431 CC, | ES | |
| 400.00 | 399.99 | 398.55 | 398.54 | 1.36 | 1.35 | 172.16 | -0.14 | -25.84 | 26.70 | 23.99 | 2.71 | 9.857 | | |
| 500.00 | 499.96 | 497.91 | 497.87 | 1.70 | 1.70 | 172.02 | -0.57 | -28.37 | 31.85 | 28.44 | 3.40 | 9.361 | | |
| | 500.00 | 500.00 | 500.00 | 0.00 | 0.05 | 171.05 | 4.00 | 00.50 | 40.40 | 00.04 | 4.40 | 0.050 | | |
| 600.00 | 599.86 | 596.93 | 596.80 | 2.06 | 2.05 | 171.85 | -1.29 | -32.58 | 40.42 | 36.31 | 4.10 | 9.853 | | |
| 700.00 | 699.68 | 695.42 | 695.11 | 2.42 | 2.40 | 171.71 | -2.29 | -38.45 | 52.40 | 47.59 | 4.80 | 10.905 | | |
| 800.00 | 799.37 | 793.22 | 792.61 | 2.78 | 2.76 | 171.60 | -3.57 | -45.91 | 67.76 | 62.26 | 5.51 | 12.306 | | |
| 900.00 | 898.90 | 890.17 | 889.12 | 3.16 | 3.12 | 171.51 | -5.11 | -54.94 | 86.48 | 80.28 | 6.21 | 13.935 | | |
| 1,000.00 | 998.26 | 986.09 | 984.46 | 3.54 | 3.49 | 171.44 | -6.90 | -65.45 | 108.52 | 101.62 | 6.90 | 15.723 | | |
| | | | | | | | | | | | | | | |
| 1,083.20 | 1,080.77 | 1,065.32 | 1,063.05 | 3.87 | 3.80 | 171.38 | -8.58 | -75.30 | 129.34 | 121.86 | 7.48 | 17.291 | | |
| 1,100.00 | 1,097.41 | 1,081.53 | 1,079.12 | 3.93 | 3.86 | 171.38 | -8.94 | -77.39 | 133.74 | 126.14 | 7.60 | 17.596 | | |
| 1,200.00 | 1,196.47 | 1,178.04 | 1,174.80 | 4.33 | 4.24 | 171.38 | -11.06 | -89.84 | 159.91 | 151.61 | 8.30 | 19.266 | | |
| 1,300.00 | 1,295.54 | 1,274.56 | 1,270.48 | 4.74 | 4.63 | 171.38 | -13.18 | -102.29 | 186.09 | 177.08 | 9.01 | 20.664 | | |
| 1,400.00 | 1,394.61 | 1,371.07 | 1,366.17 | 5.14 | 5.02 | 171.38 | -15.31 | -114.74 | 212.26 | 202.55 | 9.71 | 21.855 | | |
| | | | | | | | | | | | | | | |
| 1,500.00 | 1,493.68 | 1,467.58 | 1,461.85 | 5.55 | 5.41 | 171.38 | -17.43 | -127.20 | 238.44 | 228.02 | 10.42 | 22.880 | | |
| 1,600.00 | 1,592.74 | 1,564.10 | 1,557.54 | 5.96 | 5.80 | 171.38 | -19.56 | -139.65 | 264.61 | 253.48 | 11.13 | 23.772 | | |
| 1,700.00 | 1,691.81 | 1,660.61 | 1,653.22 | 6.38 | 6.20 | 171.38 | -21.68 | -152.10 | 290.79 | 278.94 | 11.84 | 24.553 | | |
| 1,800.00 | 1,790.88 | 1,757.12 | 1,748.90 | 6.79 | 6.59 | 171.37 | -23.80 | -164.55 | 316.96 | 304.41 | 12.56 | 25.244 | | |
| 1,900.00 | 1,889.94 | 1,853.64 | 1,844.59 | 7.20 | 6.99 | | -25.93 | -177.01 | 343.14 | 329.87 | 13.27 | 25.859 | | |
| 1,900.00 | 1,009.94 | 1,000.04 | 1,044.59 | 7.20 | 0.99 | 171.37 | -25.93 | -177.01 | 343.14 | 329.01 | 13.27 | 25.659 | | |
| 2,000.00 | 1,989.01 | 1,950.15 | 1,940.27 | 7.62 | 7.39 | 171.37 | -28.05 | -189.46 | 369.31 | 355.33 | 13.98 | 26.410 | | |
| 2,100.00 | 2,088.08 | | | | | | | | | | | | | |
| | | 2,046.67 | 2,035.95 | 8.04 | 7.79 | 171.37 | -30.18 | -201.91 | 395.49 | 380.79 | 14.70 | 26.906 | | |
| 2,200.00 | 2,187.15 | 2,143.18 | 2,131.64 | 8.45 | 8.19 | 171.37 | -32.30 | -214.36 | 421.66 | 406.25 | 15.41 | 27.355 | | |
| 2,300.00 | 2,286.21 | 2,239.69 | 2,227.32 | 8.87 | 8.58 | 171.37 | -34.42 | -226.81 | 447.83 | 431.70 | 16.13 | 27.763 | | |
| 2,400.00 | 2,385.28 | 2,336.21 | 2,323.00 | 9.29 | 8.98 | 171.37 | -36.55 | -239.27 | 474.01 | 457.16 | 16.85 | 28.136 | | |
| | | | | | | | | | | | | | | |
| 2,500.00 | 2,484.35 | 2,432.72 | 2,418.69 | 9.71 | 9.38 | 171.37 | -38.67 | -251.72 | 500.18 | 482.62 | 17.56 | 28.478 | | |
| 2,600.00 | 2,583.41 | 2,529.23 | 2,514.37 | 10.12 | 9.78 | 171.37 | -40.80 | -264.17 | 526.36 | 508.08 | 18.28 | 28.792 | | |
| 2,700.00 | 2,682.48 | 2,625.75 | 2,610.05 | 10.54 | 10.18 | 171.37 | -42.92 | -276.62 | 552.53 | 533.54 | 19.00 | 29.082 | | |
| 2,800.00 | 2,781.55 | 2,722.26 | 2,705.74 | 10.96 | 10.58 | 171.37 | -45.04 | -289.08 | 578.71 | 558.99 | 19.72 | 29.351 | | |
| 2,900.00 | 2,880.62 | 2,818.77 | 2,801.42 | 11.38 | 10.98 | 171.37 | -47.17 | -301.53 | 604.88 | 584.45 | 20.43 | 29.600 | | |
| | | | | | | | | | | | | | | |
| 3,000.00 | 2,979.68 | 2,915.29 | 2,897.10 | 11.80 | 11.39 | 171.37 | -49.29 | -313.98 | 631.06 | 609.90 | 21.15 | 29.833 | | |
| 3,100.00 | 3,078.75 | 3,011.80 | 2,992.79 | 12.22 | 11.79 | 171.37 | -51.42 | -326.43 | 657.23 | 635.36 | 21.87 | 30.049 | | |
| 3,200.00 | 3,177.82 | 3,108.32 | 3,088.47 | 12.64 | 12.19 | 171.37 | -53.54 | -338.89 | 683.41 | 660.82 | 22.59 | 30.252 | | |
| 3,300.00 | 3,276.88 | 3,204.83 | 3,184.15 | 13.06 | 12.59 | 171.37 | -55.66 | -351.34 | 709.58 | 686.27 | 23.31 | 30.441 | | |
| 3,400.00 | 3,375.95 | 3,301.34 | 3,279.84 | 13.48 | 12.99 | 171.37 | -57.79 | -363.79 | 735.76 | 711.73 | 24.03 | 30.620 | | |
| ., | -,-, 0.00 | 2,301.07 | -, 0.0 1 | | .2.00 | | 00 | - 300 | . 50 5 | | | | | |
| 3,500.00 | 3,475.02 | 3,397.86 | 3,375.52 | 13.90 | 13.39 | 171.37 | -59.91 | -376.24 | 761.93 | 737.18 | 24.75 | 30.787 | | |
| 3,522.41 | 3,497.22 | 3,419.49 | 3,396.97 | 13.99 | 13.48 | 171.37 | -60.39 | -379.03 | 767.80 | 742.89 | 24.91 | 30.823 | | |
| 3,600.00 | 3,574.16 | 3,494.50 | 3,471.34 | 14.32 | 13.80 | 171.40 | -62.04 | -388.71 | 787.60 | 762.14 | 25.47 | 30.926 | | |
| 3,700.00 | 3,673.50 | 3,598.05 | 3,574.01 | 14.72 | 14.23 | 171.40 | -64.29 | -401.89 | 811.49 | | 26.23 | 30.934 | | |
| | | | | | | | | -401.89 -414.59 | | 785.26 | | | | |
| 3,800.00 | 3,773.03 | 3,712.05 | 3,687.28 | 15.11 | 14.68 | 171.41 | -66.45 | -414.59 | 832.12 | 805.05 | 27.06 | 30.749 | | |
| 3,900.00 | 3,872.71 | 3,827.30 | 3,802.03 | 15.49 | 15.13 | 171.42 | -68.26 | -425.16 | 849.11 | 821.22 | 27.88 | 30.451 | | |
| | | | | | | | | | | | | | | |
| 4,000.00 | 3,972.52 | 3,943.57 | 3,917.98 | 15.85 | 15.57 | 171.42 | -69.68 | -433.52 | 862.42 | 833.72 | 28.70 | 30.053 | | |
| 4,100.00 | 4,072.42 | 4,060.60 | 4,034.86 | 16.20 | 15.99 | 171.43 | -70.72 | -439.59 | 872.02 | 842.52 | 29.50 | 29.563 | | |
| 4,200.00 | 4,172.38 | 4,178.17 | 4,152.36 | 16.54 | 16.39 | 171.43 | -71.35 | -443.32 | 877.88 | 847.60 | 30.28 | 28.989 | | |
| 4,305.62 | 4,277.99 | 4,302.63 | 4,276.81 | 16.88 | 16.80 | -90.79 | -71.59 | -444.68 | 880.00 | 848.92 | 31.08 | 28.315 | | |
| | | | | | | | | | | | | | | |
| 4,400.00 | 4,372.37 | 4,397.19 | 4,371.37 | 17.18 | 17.09 | -90.79 | -71.59 | -444.68 | 880.00 | 848.29 | 31.70 | 27.756 | | |
| 4,505.62 | 4,477.99 | 4,502.81 | 4,476.99 | 17.51 | 17.42 | -90.79 | -71.59 | -444.68 | 880.00 | 847.59 | 32.41 | 27.154 | | |
| 4,550.00 | 4,522.34 | 4,547.05 | 4,521.21 | 17.65 | 17.56 | -89.85 | -70.28 | -444.70 | 880.00 | 847.30 | 32.70 | 26.911 | | |
| 4,600.00 | 4,572.10 | 4,596.89 | 4,570.81 | 17.80 | 17.72 | -89.86 | -65.55 | -444.78 | 880.00 | 846.97 | 33.02 | 26.647 | | |
| 4,650.00 | 4,621.40 | 4,646.74 | 4,619.98 | 17.95 | 17.87 | -89.86 | -57.37 | -444.92 | 880.00 | 846.66 | 33.34 | 26.393 | | |
| | | | | | | | | | | | | | | |
| 1,668.93 | 4,639.89 | 4,665.62 | 4,638.43 | 18.00 | 17.92 | -89.86 | -53.39 | -444.98 | 880.00 | 846.54 | 33.46 | 26.300 | | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

Minimum Curvature

2.00 sigma edmdb Offset Datum

| Reference Offset Semi Major Axis Highside Semi Major Axis Highside Highsid | rvey Progr | ram: 0 | -MWD | | | | | | | | Rule Assi | gned: | | Offset Well Error: | 0.00 |
|--|------------|----------|----------|----------|-----------|-------|----------|---------------|------------|--------|-----------|------------|--------|--------------------|------|
| Page | Refer | rence | Off | | | | | Offset Wellbe | ore Centre | | ance | _ | | | |
| 1,7000 | Depth | | Depth | Depth | Reference | | Toolface | | | | Ellipses | Separation | | Warning | |
| 1,17.549 | | | | | | | | | | | | | | | |
| 1,75000 4,77660 4,746760 4,746703 123 1850 4888 49.88 49.88 49.89 | | | | | | | | | | | | | | | |
| 1,764.31 (1 4,706.71 4,706.31 4,726.44 18.72 18.19 40.88 28.00 44.58 80.00 46.72 34.72 26.07 18.13 18.13 18.4 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4,776.27 4,891.00 4 | | | | | | | | | | | | | | | |
| 1,800.00 | 4,750.00 | 4,717.66 | | 4,716.03 | | 18.15 | | -30.88 | -445.35 | | 846.03 | 33.96 | 25.910 | | |
| 1839.04 4,776.67 4,819.25 4,875.75 16.41 16.30 46.90 7.04 445.70 880.00 846.64 34.36 25.41 18.50 16.41 34.86 25.44 18.80 18.80 18.80 48.274 4,866.01 4,867.07 16.53 16.45 480.00 15.16 440.11 800.00 846.32 34.67 23.30 18.00 | 4,764.31 | 4,731.10 | 4,760.74 | 4,729.44 | 18.27 | 18.19 | -89.88 | -26.00 | -445.43 | 880.00 | 845.95 | 34.05 | 25.843 | | |
| 1880 00 4 A802 25 4 A86 22 4.07 50 16 50 16.42 49.89 8 7.1 446 00 880 00 45.11 34.58 25.445 1880 34 A821.47 4,800.00 4.319.70 16.53 16.45 49.00 3116 446.11 880.00 45.00 45.00 34.00 | 4,800.00 | 4,764.15 | 4,796.33 | 4,762.45 | 18.37 | 18.29 | -89.88 | -12.68 | -445.65 | 880.00 | 845.72 | 34.27 | 25.677 | | |
| 18.83 4 | 1,813.94 | 4,776.87 | 4,810.24 | 4,775.15 | 18.41 | 18.33 | -89.89 | -7.04 | -445.74 | 880.00 | 845.64 | 34.36 | 25.611 | | |
| 1,800 0 | 1,850.00 | 4,809.25 | 4,846.22 | 4,807.50 | 18.50 | 18.42 | -89.89 | 8.71 | -446.00 | 880.00 | 845.41 | 34.58 | 25.445 | | |
| 1918 1918 1918 1918 1918 1918 1918 1918 1919 1918 | ,863.84 | 4,821.47 | 4,860.03 | 4,819.70 | 18.53 | 18.45 | -89.90 | 15.18 | -446.11 | 880.00 | 845.32 | 34.67 | 25.380 | | |
| | 1,900.00 | 4,852.74 | 4,896.11 | 4,850.96 | 18.63 | 18.55 | -89.90 | 33.18 | -446.40 | 880.00 | 845.09 | 34.91 | 25.211 | | |
| 1,000 1,00 | 1,913.87 | 4,864.49 | 4,909.95 | 4,862.71 | 18.66 | 18.58 | -89.91 | 40.50 | -446.52 | 880.00 | 845.00 | 35.00 | 25.145 | | |
| | | | | | | | | | -446.85 | | | | | | |
| 1,000 0 4,934 0 4,965 2 4,932 8 18,86 18,72 8,993 993 447,35 890 0 844,1 35,59 24,78 1,000 | 1.963.95 | 4.905.68 | 4.959.94 | 4.903.90 | 18.78 | 18.70 | -89.92 | 68.80 | -446.99 | 880.00 | 844.66 | 35.33 | 24.905 | | |
| 1.01 | | | | | | | | | | | | | | | |
| 1,000 0 4,971 45 6,061 4,979 77 19.02 18.96 18.91 4.989 31 12.38 | | | | | | | | | | | | | | | |
| 1,004.02 | | | | | | | | | | | | | | | |
| 1,14,14 5,016,07 5,110,16 5,014,46 19,14 19,08 -89,95 170,09 -448,05 880,00 843,51 36,48 24,122 1,500 5,036,78 5,167,03 19,23 19,23 19,88 -89,95 20,881 -449,28 880,00 843,27 36,83 23,332 2,200,00 5,068,59 5,196,68 5,077,61 19,38 19,33 -89,97 237,36 -449,25 880,00 842,77 37,38 23,322 2,200,00 5,068,59 5,196,68 5,077,55 19,43 19,38 -89,97 249,78 -449,95 880,00 842,59 37,41 23,524 2,200,00 5,068,41 5,245,66 5,094,11 19,55 19,51 -89,98 284,26 450,92 880,00 842,23 37,41 23,524 2,200,00 5,107,33 5,266,26 5,094,41 19,56 -89,98 286,72 450,62 880,00 842,17 37,62 23,333 2,200,00 5,114,47 | | | | | | | | | | | | | | | |
| 1.14.4.1 6.016.07 5.10.1.6 5.014.48 19.14 19.08 -89.95 170.09 -448.05 880.00 843.51 36.48 24.122 1.50.00 6.08.98 5.148.72 5.037.35 19.23 19.88 -89.95 19.22 28.81 -449.28 880.00 843.21 36.83 23.322 1.50.00 5.08.99 5.196.88 5.087.76 19.23 19.83 19.33 -89.97 237.36 -449.25 880.00 843.27 37.80 23.822 2.250.00 5.086.89 5.196.68 5.075.55 19.43 19.33 -89.97 249.78 -449.95 880.00 842.59 37.41 23.524 2.250.00 5.086.41 5.245.66 5.094.11 19.55 19.51 -89.98 284.26 -450.24 880.00 842.23 37.41 23.524 2.250.00 5.094.73 5.266.26 5.098.41 19.50 19.56 -89.98 286.72 -450.64 880.00 842.12 37.88 23. | 100.00 | 5 006 45 | 5,005,77 | 5 004 92 | 10.10 | 10.04 | _80 04 | 150.41 | _///0 //7 | 990 00 | 842 64 | 20.20 | 34 303 | | |
| 1,150.00 | | | | | | | | | | | | | | | |
| 1,144.65 | | | | | | | | | | | | | | | |
| 19.200 19.0000 19.000 19.000 19.000 19.000 19.000 19.000 19.0000 19.000 | | | | | | | | | | | | | | | |
| 215.00 5.076.94 5.210.68 5.075.55 19.43 19.38 -89.97 249.78 -449.95 880.00 842.59 37.41 23.524 250.00 5.056.41 5.245.65 5.094.11 19.55 19.51 -89.98 279.42 -450.44 880.00 842.23 37.76 23.302 255.62 5.098.24 5.251.26 5.096.96 19.58 19.54 -89.98 284.26 -450.52 880.00 842.17 37.82 23.266 258.46 5.099.66 5.254.11 5.098.38 19.59 19.55 -89.98 286.72 -450.56 880.00 842.17 37.82 23.237 280.00 5.100.73 5.256.25 5.099.45 19.60 19.56 -89.98 286.72 -450.56 880.00 842.12 37.88 23.233 290.04 5.115.75 2.826.28 5.114.47 19.72 19.69 -89.98 314.58 -450.59 880.00 842.12 37.88 23.233 290.04 5.115.75 2.826.28 5.114.47 19.72 19.69 -89.98 314.58 -450.59 880.00 841.78 38.21 23.030 300.00 5.120.43 5.256.25 5.099.45 19.70 19.73 -89.98 322.69 -451.15 880.00 841.78 38.21 23.030 300.00 5.120.43 5.256.85 5.114.47 19.72 19.69 -89.98 322.69 -451.15 880.00 841.78 38.21 22.997 300.00 5.170.43 5.356.84 5.169.15 20.30 20.27 -89.98 39.98 40.92.8 -452.27 880.00 840.44 39.55 22.249 305.56 2 5.223.24 5.501.26 5.221.96 20.99 20.97 -89.98 500.74 -454.07 880.00 838.65 41.35 21.283 305.00 5.243.92 5.546.63 5.241.80 20.99 20.97 -89.98 500.74 -454.07 880.00 838.65 41.35 21.283 305.00 5.243.92 5.546.63 5.242.80 21.32 21.99 -89.99 539.88 -454.71 880.00 838.65 41.35 21.283 305.00 5.283.92 5.565.85 5.561.35 5.245.95 21.73 21.70 -80.01 587.74 -455.50 880.00 837.84 42.52 20.698 300.01 5.264.23 5.597.35 5.263.33 21.73 21.70 -80.02 633.24 -456.25 880.00 836.33 41.97 20.998 300.02 5.279.00 5.465.66 5.278.31 22.13 22.10 -80.02 633.24 -456.25 880.00 836.33 41.97 20.998 300.01 5.264.23 5.597.35 5.263.33 21.73 21.70 -80.02 633.24 -456.25 880.00 836.33 41.97 20.998 300.01 5.264.23 5.597.35 5.263.33 21.73 21.70 -80.02 633.24 -456.25 880.00 836.33 43.36 20.294 300.02 5.279.00 5.465.66 5.278.31 22.13 22.10 -80.02 633.24 -456.25 880.00 836.33 43.36 20.294 300.01 5.264.23 5.595.68 5.565.35 5.289.94 23.50 23.46 -90.04 682.67 -457.06 880.00 837.89 41.04 21.598 300.01 5.269.29 5.565.68 5.565.35 23.00 90.05 731.41 457.88 880.00 837.89 41.04 12.599.89 300.01 5.299.97 5.796.81 5.29 | | | | | | | | | | | | | | | |
| 250.00 5.095.41 5.245.65 5.094.11 19.55 19.51 -89.98 279.42 -450.44 880.00 842.23 37.76 23.002 | ,200.00 | 5,068.59 | 5,195.68 | 5,067.16 | 19.38 | 19.33 | -89.97 | 237.36 | -449.75 | 880.00 | 842.74 | 37.26 | 23.620 | | |
| 255.62 5.098.24 5.251.26 5.098.68 19.58 19.54 -89.98 284.26 -450.52 880.00 842.17 37.82 23.268 2558.46 5.099.66 5.254.11 5.098.38 19.59 19.55 -89.98 288.58 -450.59 880.00 842.12 37.85 23.247 260.00 5.100.73 5.256.25 5.099.48 19.60 19.56 89.98 288.58 -450.59 880.00 842.12 37.88 23.233 270.04 5.115.75 5.266.28 5.114.47 19.72 19.69 -89.98 288.58 -450.59 880.00 842.12 37.88 23.233 270.04 5.115.75 5.266.28 5.114.47 19.72 19.69 -89.98 314.58 461.02 880.00 841.78 38.21 23.030 300.00 5.120.43 5.295.64 5.119.15 19.76 19.73 89.98 322.69 -451.15 880.00 841.88 38.31 22.967 373.88 7 5.158.86 5.374.51 5.158.59 20.17 20.15 89.98 39.89 49.28 452.77 880.00 840.11 39.29 22.237 373.88 7 5.158.86 5.374.51 5.158.59 20.17 20.15 89.98 39.98 49.28 452.77 880.00 840.41 39.55 22.249 300.00 5.170.43 5.395.84 5.169.15 20.30 20.27 -89.98 409.28 452.57 880.00 840.44 39.55 22.249 300.00 5.170.43 5.395.84 5.169.15 20.30 20.27 -89.98 500.74 454.07 880.00 838.65 41.04 21.444 30.55 22.249 5.501.26 5.221.96 20.99 20.97 88.99 59.88 454.57 880.00 838.65 41.04 21.444 30.560.07 5.233.14 5.512.71 5.231.94 21.14 21.11 -88.98 518.58 454.37 880.00 838.65 41.04 21.444 30.55 20.244 5.550.58 5.542.80 21.32 21.29 89.99 59.88 454.71 880.00 838.85 41.35 20.898 30.00 5.249.29 5.545.63 5.242.80 21.32 21.09 90.00 554.29 454.95 880.00 838.63 41.97 20.988 30.00 5.263.29 5.565.83 5.263.33 21.73 21.70 90.01 587.74 455.05 880.00 836.63 43.36 20.294 30.00 5.207.29 5.645.66 5.278.31 22.13 22.10 90.02 633.24 466.25 880.00 836.63 43.36 20.294 30.00 5.207.29 5.645.66 5.278.31 22.13 22.10 90.02 633.24 466.25 880.00 836.63 43.36 20.294 30.00 5.207.29 5.645.66 5.278.31 22.13 22.10 90.02 633.24 466.25 880.00 836.63 43.36 20.294 30.00 5.207.29 5.645.66 5.278.31 22.13 22.10 90.02 633.24 466.25 880.00 836.63 43.36 20.294 30.00 5.207.29 5.645.66 5.278.31 22.13 22.10 90.02 633.24 466.25 880.00 835.75 44.25 19.889 30.00 6.207.30 5.745.73 5.297.06 23.03 22.99 90.05 731.41 4.457.86 880.00 835.75 44.25 19.889 30.00 6.207.30 5.745.73 5.297.06 23 | ,215.00 | 5,076.94 | 5,210.66 | 5,075.55 | 19.43 | 19.38 | -89.97 | 249.78 | -449.95 | 880.00 | 842.59 | 37.41 | 23.524 | | |
| 2,288,46 5,096,66 5,254,11 5,098,38 19,59 19,56 -89,98 28,672 -450,59 880,00 842,14 37,85 22,247 2,200,60 5,100,73 5,266,25 5,099,45 19,50 19,56 -89,98 28,68 -450,59 880,00 842,12 37,88 23,233 2,200,64 5,115,75 5,286,28 5,114,47 19,72 19,69 -89,98 314,58 -451,15 880,00 841,68 38,31 22,997 3,78,87 5,158,86 5,374,51 5,158,59 20,17 20,15 -89,98 390,98 -452,27 880,00 840,71 39,29 22,397 4,00,00 5,717,43 5,395,64 5,161,51 20,30 20,77 -89,98 500,77 880,00 840,71 39,29 22,397 5,502,522,24 5,501,53 5,242,80 21,32 21,29 14,99,99 539,88 454,37 880,00 838,65 41,35 21,283 5,505,53 5,526,25 <t< td=""><td>,250.00</td><td>5,095.41</td><td>5,245.65</td><td>5,094.11</td><td>19.55</td><td>19.51</td><td>-89.98</td><td>279.42</td><td>-450.44</td><td>880.00</td><td>842.23</td><td>37.76</td><td>23.302</td><td></td><td></td></t<> | ,250.00 | 5,095.41 | 5,245.65 | 5,094.11 | 19.55 | 19.51 | -89.98 | 279.42 | -450.44 | 880.00 | 842.23 | 37.76 | 23.302 | | |
| 1,260,60 5,100,73 5,256,25 5,099,45 19,60 19,56 -89,98 288,58 -450,59 880,00 842,12 37,88 23,233 1,290,64 5,115,75 5,286,28 5,114,47 19,72 19,69 -89,98 314,58 -451,15 880,00 841,78 38,21 23,030 3,300,00 5,120,43 5,295,64 5,119,15 19,78 19,89 322,69 450,17 80,00 840,71 39,29 22,249 19,74 14,14 14,14 14,14 14,14 14,14 14,14 19,00 18,28 145,27 80,00 83,66 14,15 21,28 22,249 14,14 19,00 19,00 19,00 19,00 < | ,255.62 | 5,098.24 | 5,251.26 | 5,096.96 | 19.58 | 19.54 | -89.98 | 284.26 | -450.52 | 880.00 | 842.17 | 37.82 | 23.266 | | |
| 1,220.64 | ,258.46 | 5,099.66 | 5,254.11 | 5,098.38 | 19.59 | 19.55 | -89.98 | 286.72 | -450.56 | 880.00 | 842.14 | 37.85 | 23.247 | | |
| 5,300.00 5,120.43 5,295.64 5,119.15 19.73 -89.98 322.69 -451.15 880.00 841.68 38.31 22.967 5,378.87 5,159.66 5,374.51 5,158.59 20.17 20.15 -89.98 390.98 -452.57 880.00 840.71 39.29 22.397 5,505.62 5,223.24 5,501.26 5,221.96 20.99 20.97 -89.98 500.74 -454.07 880.00 838.96 41.04 21.444 5,550.62 5,233.14 5,521.71 5,231.94 21.14 21.11 -89.98 518.56 454.37 880.00 838.65 41.04 21.444 5,550.00 5,243.92 5,545.63 5,242.80 21.32 21.29 -89.99 538.86 -454.71 880.00 838.65 41.71 21.096 5,565.01 5,585.62 5,262.59 21.72 21.68 90.01 587.74 -455.55 880.00 837.44 42.55 20.681 5,650.01 5,595.62 | ,260.60 | 5,100.73 | 5,256.25 | 5,099.45 | 19.60 | 19.56 | -89.98 | 288.58 | -450.59 | 880.00 | 842.12 | 37.88 | 23.233 | | |
| 5,378.87 5,159.86 5,374.51 5,158.59 20.17 20.15 -89.98 390.98 -452.27 880.00 840.71 39.29 22.397 5,400.00 5,170.43 5,395.64 5,169.15 20.30 20.27 -89.98 499.28 -452.57 880.00 840.44 39.55 22.249 5,556.07 5,233.14 5,501.26 5,221.94 21.14 21.11 -89.98 518.58 -454.37 880.00 838.65 41.35 21.243 5,556.07 5,233.14 5,521.71 5,231.94 21.14 21.11 -89.98 518.58 -454.37 880.00 838.65 41.35 21.283 5,656.00 5,243.92 5,545.63 5,249.53 21.45 21.41 -90.00 554.29 -454.97 880.00 837.48 42.52 20.698 5,600.01 5,264.23 5,597.73 5,263.33 21.73 21.70 -90.01 587.74 -455.57 880.00 837.44 42.52 20.681 5 | 5,290.64 | 5,115.75 | 5,286.28 | 5,114.47 | 19.72 | 19.69 | -89.98 | 314.58 | -451.02 | 880.00 | 841.78 | 38.21 | 23.030 | | |
| 3,400.00 5,170.43 5,395.64 5,169.15 20.30 20.27 -89.98 409.28 -452.57 880.00 840.44 39.55 22.249 1,505.62 5,223.24 5,501.26 5,221.96 20.99 20.97 -89.98 500.74 -454.07 880.00 838.66 41.04 21.444 1,526.07 5,233.14 5,521.71 5,231.94 21.14 21.11 -89.98 518.58 -454.37 880.00 838.65 41.35 21.283 1,555.00 5,243.92 5,546.53 5,249.53 21.45 21.41 -90.00 564.29 454.95 880.00 838.03 41.71 21.996 585.65 5,565.50 5,561.53 5,249.53 21.45 21.41 -90.00 564.29 454.95 880.00 838.03 41.97 20.968 6,600.01 5,600.21 5,262.59 21.72 21.68 -90.01 587.74 -455.50 880.00 837.44 42.52 20.681 6,600.01 5,278.99 5,645.64 | ,300.00 | 5,120.43 | 5,295.64 | 5,119.15 | 19.76 | 19.73 | -89.98 | 322.69 | -451.15 | 880.00 | 841.68 | 38.31 | 22.967 | | |
| 5,505.62 5,233.24 5,501.26 5,221.96 20.99 20.97 -89.98 500.74 -454.07 880.00 838.96 41.04 21.444 5,526.07 5,233.14 5,521.71 5,231.94 21.14 21.11 -89.99 539.88 -454.71 880.00 838.65 41.35 21.283 5,550.00 5,243.92 5,545.63 5,242.80 21.32 21.49 -89.99 539.88 -454.71 880.00 838.03 41.97 20.968 5,650.00 5,265.59 5,565.59 21.72 21.68 -90.01 585.77 -455.47 880.00 837.48 42.52 20.688 5,600.01 5,262.59 21.72 21.68 -90.01 587.74 -455.47 880.00 837.48 42.52 20.688 5,600.01 5,278.03 5,597.32 21.73 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 5,600.02 5,279.00 5,645.66 5,278.31 2 | 5,378.87 | 5,159.86 | 5,374.51 | 5,158.59 | 20.17 | 20.15 | -89.98 | 390.98 | -452.27 | 880.00 | 840.71 | 39.29 | 22.397 | | |
| 5,505.62 5,233.24 5,501.26 5,221.96 20.99 20.97 -89.98 500.74 -454.07 880.00 838.96 41.04 21.444 5,526.07 5,233.14 5,521.71 5,231.94 21.14 21.11 -89.99 539.88 -454.71 880.00 838.65 41.35 21.283 5,550.00 5,243.92 5,545.63 5,242.80 21.32 21.49 -89.99 539.88 -454.71 880.00 838.03 41.97 20.968 6,600.00 5,265.59 5,595.62 5,262.59 21.72 21.68 -90.01 585.77 -455.47 880.00 837.48 42.52 20.688 6,600.01 5,262.39 5,645.63 5,278.30 21.73 21.70 -90.01 587.74 -455.47 880.00 837.48 42.52 20.688 6,650.01 5,278.90 5,645.66 5,278.31 22.13 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 6 | | | | | | | | | | | | | | | |
| ,550,00 5,243,92 5,546,63 5,242,80 21,32 21,29 -89,99 539,88 -454,71 880,00 838,28 41,71 21,096 ,565,91 5,250,88 5,561,53 5,249,53 21,45 21,41 -90,00 554,29 -454,95 880,00 838,03 41,97 20,968 ,660,01 5,264,23 5,597,73 5,262,59 21,72 21,68 -90,01 587,77 -455,50 880,00 837,44 42,55 20,681 ,650,01 5,278,99 5,645,64 5,278,30 21,13 21,10 -90,02 633,24 -456,25 880,00 836,63 43,36 20,294 ,700,00 5,297,00 5,695,68 5,289,82 22,57 22,54 -90,04 681,90 -457,05 880,00 835,74 44,26 19,889 ,700,00 5,297,30 5,745,73 5,297,06 23,03 22,99 -90,05 731,41 -457,06 880,00 835,74 44,26 19,889 ,751,26 | | | | | | | | | | | | | | | |
| 5,550.00 5,243.92 5,545.63 5,242.80 21.32 21.29 -89.99 539.88 -454.71 880.00 838.28 41.71 21.096 5,566.91 5,250.58 5,561.53 5,249.53 21.45 21.41 -90.00 554.29 -454.95 880.00 838.03 41.97 20.968 5,600.00 5,263.50 5,595.62 5,262.59 21.72 21.68 -90.01 587.74 -455.47 880.00 837.48 42.52 20.698 5,602.11 5,264.23 5,597.73 5,263.33 21.73 21.70 -90.01 587.74 -455.50 880.00 837.44 42.55 20.681 5,650.00 5,278.99 5,645.64 5,278.30 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 5,600.00 5,290.29 5,695.68 5,288.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.74 44.26 19.883 5,700.00 5,290.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 5,759.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.81 45.18 19.476 5,800.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.67 880.00 833.89 46.10 19.087 6,800.00 5,800.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 17.527 | 5.526.07 | 5.233.14 | 5.521.71 | 5.231.94 | 21.14 | 21.11 | -89.98 | 518.58 | -454.37 | 880.00 | 838.65 | 41.35 | 21.283 | | |
| 5,565.91 5,250.58 5,561.53 5,249.53 21.45 21.41 -90.00 554.29 -454.95 880.00 838.03 41.97 20.968 6,600.00 5,263.50 5,595.62 5,262.59 21.72 21.68 -90.01 587.74 -455.50 880.00 837.48 42.52 20.698 6,602.11 5,264.23 5,597.73 5,263.33 21.73 21.70 -90.01 587.74 -455.50 880.00 837.44 42.55 20.681 6,650.00 5,278.99 5,645.64 5,278.31 22.13 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 6,650.02 5,279.90 5,645.64 5,278.31 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 7,700.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.06 880.00 835.75 44.25 19.889 7 | | | | | | | | | | | | | | | |
| 1,600.00 5,263.50 5,595.62 5,262.59 21.72 21.68 -90.01 585.77 -455.47 880.00 837.48 42.52 20.698 1,602.11 5,264.23 5,597.73 5,263.33 21.73 21.70 -90.01 587.74 -455.50 880.00 837.44 42.55 20.681 1,650.00 5,278.99 5,645.64 5,278.30 22.13 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 1,650.00 5,279.00 5,645.66 5,278.31 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 1,700.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.75 44.25 19.889 1,700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 1,750.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 19.486 1.751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 732.67 -457.88 880.00 834.81 45.18 19.476 19.087 19.080 19.087 19.089 19.085 19.089 19.085 19.089 19.085 19.089 19.085 19.089 19.085 19.089 19.085 19.085 19.089 19.085 19. | | | | | | | | | | | | | | | |
| 1,602.11 5,264.23 5,597.73 5,263.33 21.73 21.70 -90.01 587.74 -455.50 880.00 837.44 42.55 20.681 1,650.00 5,278.99 5,645.64 5,278.30 22.13 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 1,650.02 5,279.00 5,645.66 5,278.31 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 1,700.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.75 44.25 19.889 1,700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 1,750.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 1,751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 732.67 -457.88 880.00 834.81 45.18 19.476 1,800.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 1,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 1,805.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.78 46.21 19.043 1,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 1,900.00 5,300.00 5,995.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 1,900.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| 650.00 5,278.99 5,645.64 5,278.30 22.13 22.10 -90.02 633.24 -456.25 880.00 836.63 43.36 20.294 6650.02 5,279.00 5,645.66 5,278.31 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 670.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.75 44.25 19.889 700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 750.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 751.26 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 880.00 5,299.97 5,795.82 5,299.94 23.50 23.46 -90.06 781.39 -458.68 880.00 833.89 46.10 19.087 880.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 880.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.79 46.21 19.043 880.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 831.91 48.08 18.301 890.00 5,300.00 5,801.46 5,299.99 23.55 25.50 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 890.01 5,300.00 5,805.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 890.01 5,300.00 5,905.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 800.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| 6,650.02 5,279.00 5,645.66 5,278.31 22.13 22.10 -90.02 633.25 -456.25 880.00 836.63 43.36 20.294 6,700.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.75 44.25 19.889 6,700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 6,751.26 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 6,800.00 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 731.34 -457.88 880.00 834.81 45.18 19.476 6,800.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 6,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 | 650.00 | E 270 00 | | | 20.40 | 22.40 | 00.00 | 622.24 | AEC OF | 000.00 | 926.62 | | 20.204 | | |
| 1,700.00 5,290.29 5,695.68 5,289.82 22.57 22.54 -90.04 681.90 -457.05 880.00 835.75 44.25 19.889 1,700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 1,750.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.48 | | | | | | | | | | | | | | | |
| 1,700.78 5,290.43 5,696.45 5,289.97 22.58 22.54 -90.04 682.67 -457.06 880.00 835.74 44.26 19.883 1,750.00 5,297.30 5,745.73 5,297.06 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 19.476 19.486 19.4 | | | | | | | | | | | | | | | |
| 1,750.00 5,297.30 5,745.73 5,297.66 23.03 22.99 -90.05 731.41 -457.86 880.00 834.83 45.16 19.486 1,751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 732.67 -457.88 880.00 834.81 45.18 19.476 1,800.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 1,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 1,805.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 1,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 1,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 1,000.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| 7,751.26 5,297.42 5,746.99 5,297.18 23.04 23.00 -90.05 732.67 -457.88 880.00 834.81 45.18 19.476 880.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 880.01 5,299.97 5,795.82 5,299.94 23.50 23.46 -90.06 781.39 -458.68 880.00 833.89 46.10 19.087 880.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 880.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 880.00 833.78 46.21 19.043 880.00 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 880.00 833.78 46.21 19.043 880.00 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 831.91 48.08 18.301 890.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 890.01 5,300.00 5,995.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 890.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 890.00 17.527 | | | | | | | | | | | | | | | |
| ,800.00 5,299.97 5,795.81 5,299.94 23.50 23.46 -90.06 781.38 -458.68 880.00 833.89 46.10 19.087 ,800.01 5,299.97 5,795.82 5,299.94 23.50 23.46 -90.06 781.39 -458.68 880.00 833.89 46.10 19.087 ,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 ,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 ,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 ,900.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 82.79 50.21 17.527 | ,750.00 | 5,297.30 | 5,745.73 | 5,297.06 | 23.03 | 22.99 | -90.05 | 731.41 | -457.86 | 880.00 | 834.83 | 45.16 | 19.486 | | |
| 3,800.01 5,299.97 5,795.82 5,299.94 23.50 23.46 -90.06 781.39 -458.68 880.00 833.89 46.10 19.087 1,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 1,805.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 1,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 1,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 1,900.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 1,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 | ,751.26 | | 5,746.99 | 5,297.18 | 23.04 | 23.00 | -90.05 | 732.67 | -457.88 | 880.00 | 834.81 | 45.18 | 19.476 | | |
| 5,805.62 5,300.00 5,801.43 5,299.99 23.55 23.51 -90.06 787.00 -458.77 880.00 833.79 46.21 19.043 5,805.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 5,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 5,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 5,000.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 5,000.01 5,300.02 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | ,800.00 | 5,299.97 | 5,795.81 | 5,299.94 | 23.50 | 23.46 | -90.06 | 781.38 | -458.68 | 880.00 | 833.89 | 46.10 | 19.087 | | |
| 5,805.64 5,300.00 5,81.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 5,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 5,000.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 5,000.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 5,000.01 5,300.02 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | ,800.01 | 5,299.97 | 5,795.82 | 5,299.94 | 23.50 | 23.46 | -90.06 | 781.39 | -458.68 | 880.00 | 833.89 | 46.10 | 19.087 | | |
| ,805.64 5,300.00 5,801.46 5,299.99 23.55 23.51 -90.06 787.03 -458.77 880.00 833.78 46.21 19.043 ,900.00 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.38 -460.32 880.00 831.91 48.08 18.301 ,000.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 ,000.00 5,905.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 ,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | ,805.62 | 5,300.00 | 5,801.43 | 5,299.99 | 23.55 | 23.51 | -90.06 | 787.00 | -458.77 | 880.00 | 833.79 | 46.21 | 19.043 | | |
| ,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 ,000.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 ,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| 5,900.01 5,300.00 5,895.82 5,300.00 24.49 24.45 -90.07 881.39 -460.32 880.00 831.91 48.08 18.301 5,000.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 5,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | 5,900.00 | 5,300.00 | 5,895.82 | 5,300.00 | 24.49 | 24.45 | -90.07 | 881.38 | -460.32 | 880.00 | 831.91 | 48.08 | 18.301 | | |
| ,000.00 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 ,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| ,000.01 5,300.00 5,995.82 5,300.00 25.55 25.50 -90.07 981.37 -461.96 880.00 829.79 50.21 17.527 | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| ,100.01 5,300.00 6,095.82 5,300.00 26.67 26.62 -90.07 1,081.36 -463.60 880.00 827.53 52.46 16.774 | | | | | | | | | | | | | | | |

Steward Energy II, LLC Company:

Project: Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H Reference Site:

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft Wellbore #1 Reference Wellbore Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Minimum Curvature 2.00 sigma

edmdb Offset Datum

| Offset De | sign: Sa | اه ۱۱۱۵۱۱۱۵۱ | aic #3F1 = | Galaillalica | State #3 | ii- vveliboli | e #1 - Plan #1 | | | | | | Offset Site Error: | 0.00 f |
|-------------------|-------------------|---------------------|-------------------|---------------|---------------|----------------------|----------------|---------------|--------------------|---------------------|-----------------------|----------------------|--------------------|--------|
| | rence | MWD Off s | | | ajor Axis | | Offset Wellbo | ore Centre | | Rule Assi tance | | | Offset Well Error: | 0.00 |
| Measured Depth | Vertical Depth | Measured Depth | Vertical Depth | Reference | Offset | Highside Toolface | +N/-S (ft) | +E/-W (ft) | Between Centres | Between Ellipses | Minimum Separation | Separation Factor | Warning | |
| (ft) 6,200.00 | (ft) 5,300.00 | (ft) 6,195.82 | (ft) 5,300.00 | (ft) 27.84 | (ft) 27.80 | (°) -90.07 | 1,181.34 | -465.24 | (ft) 880.00 | (ft) 825.17 | (ft) 54.83 | 16.050 | | |
| 6,200.00 | 5,300.00 | 6,195.82 | 5,300.00 | 27.85 | 27.80 | -90.07 | 1,181.34 | -465.24 | 880.00 | 825.17 | 54.83 | 16.050 | | |
| 6,300.00 | 5,300.00 | 6,295.82 | 5,300.00 | 29.07 | 29.02 | -90.07 | 1,281.33 | -466.89 | 880.00 | 822.70 | 57.29 | 15.360 | | |
| 6,300.00 | 5,300.00 | 6,295.82 | 5,300.00 | 29.07 | 29.02 | -90.07 | 1,281.33 | -466.89 | 880.00 | 822.70 | 57.29 | 15.360 | | |
| 6,400.00 | 5,300.00 | 6,395.82 | 5,300.00 | 30.33 | 30.28 | -90.07 -90.07 | 1,381.31 | -468.53 | 880.00 | 820.15 | 59.84 | 14.705 | | |
| 6,400.00 | 5,300.00 | 6,395.82 | 5,300.00 | 30.33 | 30.28 | -90.07 | 1,381.32 | -468.53 | 880.00 | 820.15 | 59.84 | 14.705 | | |
| 6,400.01 | 5,300.00 | 0,393.02 | 5,300.00 | 30.33 | 30.20 | -90.07 | 1,301.32 | -400.33 | 000.00 | 020.15 | 39.04 | 14.705 | | |
| 6,500.00 | 5,300.00 | 6,495.82 | 5,300.00 | 31.64 | 31.58 | -90.07 | 1,481.30 | -470.17 | 880.00 | 817.53 | 62.47 | 14.087 | | |
| 6,500.01 | 5,300.00 | 6,495.82 | 5,300.00 | 31.64 | 31.58 | -90.07 | 1,481.30 | -470.17 | 880.00 | 817.53 | 62.47 | 14.087 | | |
| 6,600.00 | 5,300.00 | 6,595.82 | 5,300.00 | 32.97 | 32.92 | -90.07 | 1,581.29 | -471.81 | 880.00 | 814.84 | 65.16 | 13.505 | | |
| 6,600.01 | 5,300.00 | 6,595.82 | 5,300.00 | 32.97 | 32.92 | -90.07 | 1,581.29 | -471.81 | 880.00 | 814.84 | 65.16 | 13.505 | | |
| 6,700.00 | 5,300.00 | 6,695.82 | 5,300.00 | 34.34 | 34.28 | -90.07 | 1,681.27 | -473.45 | 880.00 | 812.08 | 67.91 | 12.958 | | |
| -, | -, | -, | -, | | | | ., | | | | | | | |
| 6,700.01 | 5,300.00 | 6,695.82 | 5,300.00 | 34.34 | 34.28 | -90.07 | 1,681.28 | -473.45 | 880.00 | 812.08 | 67.91 | 12.958 | | |
| 6,800.00 | 5,300.00 | 6,795.82 | 5,300.00 | 35.73 | 35.67 | -90.07 | 1,781.26 | -475.09 | 880.00 | 809.28 | 70.72 | 12.444 | | |
| 6,800.01 | 5,300.00 | 6,795.82 | 5,300.00 | 35.73 | 35.67 | -90.07 | 1,781.26 | -475.09 | 880.00 | 809.28 | 70.72 | 12.444 | | |
| 6,900.00 | 5,300.00 | 6,895.82 | 5,300.00 | 37.15 | 37.09 | -90.07 | 1,881.24 | -476.73 | 880.00 | 806.43 | 73.56 | 11.962 | | |
| 6,900.01 | 5,300.00 | 6,895.82 | 5,300.00 | 37.15 | 37.09 | -90.07 | 1,881.25 | -476.73 | 880.00 | 806.43 | 73.57 | 11.962 | | |
| | | | | | | | | | | | | | | |
| 7,000.00 | 5,300.00 | 6,995.82 | 5,300.00 | 38.58 | 38.52 | -90.07 | 1,981.23 | -478.38 | 880.00 | 803.54 | 76.45 | 11.510 | | |
| 7,000.01 | 5,300.00 | 6,995.82 | 5,300.00 | 38.58 | 38.52 | -90.07 | 1,981.24 | -478.38 | 880.00 | 803.54 | 76.46 | 11.510 | | |
| 7,100.00 | 5,300.00 | 7,095.82 | 5,300.00 | 40.04 | 39.98 | -90.07 | 2,081.22 | -480.02 | 880.00 | 800.62 | 79.38 | 11.086 | | |
| 7,100.01 | 5,300.00 | 7,095.82 | 5,300.00 | 40.04 | 39.98 | -90.07 | 2,081.22 | -480.02 | 880.00 | 800.62 | 79.38 | 11.086 | | |
| 7,200.00 | 5,300.00 | 7,195.82 | 5,300.00 | 41.51 | 41.45 | -90.07 | 2,181.20 | -481.66 | 880.00 | 797.66 | 82.34 | 10.687 | | |
| | | | | | | | | | | | | | | |
| 7,200.01 | 5,300.00 | 7,195.82 | 5,300.00 | 41.51 | 41.45 | -90.07 | 2,181.21 | -481.66 | 880.00 | 797.66 | 82.34 | 10.687 | | |
| 7,300.00 | 5,300.00 | 7,295.82 | 5,300.00 | 42.99 | 42.93 | -90.07 | 2,281.19 | -483.30 | 880.00 | 794.67 | 85.33 | 10.313 | | |
| 7,300.01 | 5,300.00 | 7,295.82 | 5,300.00 | 42.99 | 42.93 | -90.07 | 2,281.20 | -483.30 | 880.00 | 794.67 | 85.33 | 10.313 | | |
| 7,400.00 | 5,300.00 | 7,395.82 | 5,300.00 | 44.49 | 44.43 | -90.07 | 2,381.18 | -484.94 | 880.00 | 791.66 | 88.34 | 9.961 | | |
| 7,400.01 | 5,300.00 | 7,395.82 | 5,300.00 | 44.49 | 44.43 | -90.07 | 2,381.18 | -484.94 | 880.00 | 791.66 | 88.34 | 9.961 | | |
| 7,500.00 | 5,300.00 | 7,495.82 | 5,300.00 | 46.00 | 45.94 | -90.07 | 2,481.16 | -486.58 | 880.00 | 788.62 | 91.38 | 9.630 | | |
| 7,500.01 | 5,300.00 | 7,495.82 | 5,300.00 | 46.00 | 45.94 | -90.07 | 2,481.17 | -486.58 | 880.00 | 788.62 | 91.38 | 9.630 | | |
| 7,600.00 | 5,300.00 | 7,595.82 | 5,300.00 | 47.52 | 47.46 | -90.07 | 2,581.15 | -488.22 | 880.00 | 785.56 | 94.44 | 9.318 | | |
| 7,600.01 | 5,300.00 | 7,595.82 | 5,300.00 | 47.52 | 47.46 | -90.07 | 2,581.16 | -488.22 | 880.00 | 785.56 | 94.44 | 9.318 | | |
| 7,700.00 | 5,300.00 | 7,695.82 | 5,300.00 | 49.05 | 48.99 | -90.07 -90.07 | 2,681.14 | -489.87 | 880.00 | | 97.52 | 9.024 | | |
| 7,700.00 | 5,300.00 | 7,095.62 | 5,300.00 | 49.05 | 40.99 | -90.07 | 2,001.14 | -409.07 | 000.00 | 782.48 | 97.52 | 9.024 | | |
| 7,700.01 | 5,300.00 | 7,695.82 | 5,300.00 | 49.05 | 48.99 | -90.07 | 2,681.14 | -489.87 | 880.00 | 782.48 | 97.52 | 9.024 | | |
| 7,800.00 | 5,300.00 | 7,795.82 | 5,300.00 | 50.59 | 50.53 | -90.07 | 2,781.12 | -491.51 | 880.00 | 779.39 | 100.61 | 8.746 | | |
| 7,800.00 | 5,300.00 | 7,795.82 | 5,300.00 | 50.60 | 50.53 | -90.07 | 2,781.13 | -491.51 | 880.00 | 779.39 | 100.61 | 8.746 | | |
| 7,900.01 | 5,300.00 | 7,795.82 | 5,300.00 | 52.14 | 52.08 | -90.07 | 2,881.11 | -493.15 | 880.00 | 776.27 | 103.72 | 8.484 | | |
| 7,900.00 | 5,300.00 | 7,895.82 | 5,300.00 | 52.14 | 52.08 | -90.07 | 2,881.12 | -493.15 | 880.00 | 776.27 | 103.72 | 8.484 | | |
| 7,000.01 | 0,000.00 | 1,000.02 | 0,000.00 | JZ. 14 | 02.00 | -50.07 | 2,001.12 | | 000.00 | 110.21 | 100.12 | 0.404 | | |
| 8,000.00 | 5,300.00 | 7,995.82 | 5,300.00 | 53.70 | 53.64 | -90.07 | 2,981.10 | -494.79 | 880.00 | 773.15 | 106.85 | 8.236 | | |
| 8,000.01 | 5,300.00 | 7,995.82 | 5,300.00 | 53.70 | 53.64 | -90.07 | 2,981.10 | -494.79 | 880.00 | 773.15 | 106.85 | 8.236 | | |
| 8,100.00 | 5,300.00 | 8,095.82 | 5,300.00 | 55.26 | 55.20 | -90.07 | 3,081.08 | -496.43 | 880.00 | 770.01 | 109.99 | 8.001 | | |
| 8,100.01 | 5,300.00 | 8,095.82 | 5,300.00 | 55.26 | 55.20 | -90.07 | 3,081.09 | -496.43 | 880.00 | 770.01 | 109.99 | 8.001 | | |
| 8,200.00 | 5,300.00 | 8,195.82 | 5,300.00 | 56.83 | 56.77 | -90.07 | 3,181.07 | -498.07 | 880.00 | 766.86 | 113.14 | 7.778 | | |
| 0.055.5 | 5.055.57 | 0.40= == | F 05 | | | 0 | | 465.5- | 0 | 700.00 | | | | |
| 8,200.01 | 5,300.00 | 8,195.82 | 5,300.00 | 56.83 | 56.77 | -90.07 | 3,181.08 | -498.07 | 880.00 | 766.86 | 113.14 | 7.778 | | |
| 8,300.00 | 5,300.00 | 8,295.82 | 5,300.00 | 58.41 | 58.35 | -90.07 | 3,281.06 | -499.71 | 880.00 | 763.70 | 116.30 | 7.566 | | |
| 8,300.01 | 5,300.00 | 8,295.82 | 5,300.00 | 58.41 | 58.35 | -90.07 | 3,281.06 | -499.71 | 880.00 | 763.70 | 116.30 | 7.566 | | |
| 8,400.00 | 5,300.00 | 8,395.82 | 5,300.00 | 59.99 | 59.93 | -90.07 | 3,381.04 | -501.36 | 880.00 | 760.52 | 119.48 | 7.365 | | |
| 8,400.01 | 5,300.00 | 8,395.82 | 5,300.00 | 59.99 | 59.93 | -90.07 | 3,381.05 | -501.36 | 880.00 | 760.52 | 119.48 | 7.365 | | |
| 0.500.00 | E 000 00 | 0.405.00 | F 000 00 | 04.50 | 04.54 | 00.07 | 0.404.00 | 500.00 | 000.00 | 757.07 | 400.00 | 7.7. | | |
| 8,500.00 | 5,300.00 | 8,495.82 | 5,300.00 | 61.58 | 61.51 | -90.07 | 3,481.03 | -503.00 | 880.00 | 757.34 | 122.66 | 7.174 | | |
| 8,500.01 | 5,300.00 | 8,495.82 | 5,300.00 | 61.58 | 61.51 | -90.07 | 3,481.04 | -503.00 | 880.00 | 757.34 | 122.66 | 7.174 | | |
| 8,600.00 | 5,300.00 | 8,595.82 | 5,300.00 | 63.17 | 63.10 | -90.07 | 3,581.02 | -504.64 | 880.00 | 754.15 | 125.85 | 6.992 | | |
| 8,600.01 | 5,300.00 | 8,595.82 | 5,300.00 | 63.17 | 63.11 | -90.07 | 3,581.02 | -504.64 | 880.00 | 754.15 | 125.85 | 6.992 | | |
| 8,700.00 | 5,300.00 | 8,695.82 | 5,300.00 | 64.76 | 64.70 | -90.07 | 3,681.00 | -506.28 | 880.00 | 750.95 | 129.05 | 6.819 | | |
| 0.765.5 | 5.055.51 | 0.00=== | F 065 57 | | 0/ | 0 | 0.00.00 | | 00000 | 75 | 46 | 0.7.7 | | |
| 8,700.01 | 5,300.00 | 8,695.82 | 5,300.00 | 64.76 | 64.70 | -90.07 | 3,681.01 | -506.28 | 880.00 | 750.95 | 129.05 | 6.819 | | |

Steward Energy II, LLC Company:

Project: Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H Reference Site:

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft Wellbore #1 Reference Wellbore Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma Database: edmdb

Offset TVD Reference: Offset Datum

| Offset De | sign: Sa | lamanca St | tate #3H - | Salamanca | a State #3 | H - Wellbore | e #1 - Plan #1 | | | | | | Offset Site Error: | 0.00 ft |
|--------------|----------------------------|--------------------------|--------------------------|---------------------|----------------------|----------------------|----------------|---------------------|---------------------------|------------------------------|-----------------------|----------------------|--------------------|---------|
| Survey Progr | ram: 0-l | MWD | | | | | | | | Rule Assi | aned: | | Offset Well Error: | 0.00 ft |
| | rence Vertical Depth | Off Measured Depth | set Vertical Depth | Semi M Reference | Major Axis Offset | Highside Toolface | Offset Wellbo | ere Centre +E/-W | Dis Between Centres | tance Between Ellipses | Minimum Separation | Separation Factor | Warning | 0.00 11 |
| (ft) | (ft) | (ft) | (ft) | (ft) | (ft) | (°) | (ft) | (ft) | (ft) | (ft) | (ft) | | | |
| 8,800.00 | 5,300.00 | 8,795.82 | 5,300.00 | 66.36 | 66.30 | -90.07 | 3,780.99 | -507.92 | 880.00 | 747.74 | 132.26 | 6.654 | | |
| 8,800.01 | 5,300.00 | 8,795.82 | 5,300.00 | 66.36 | 66.30 | -90.07 | 3,780.99 | -507.92 | 880.00 | 747.74 | 132.26 | 6.654 | | |
| 8,900.00 | 5,300.00 | 8,895.82 | 5,300.00 | 67.96 | 67.90 | -90.07 | 3,880.98 | -509.56 | 880.00 | 744.53 | 135.47 | 6.496 | | |
| 8,900.01 | 5,300.00 | 8,895.82 | 5,300.00 | 67.96 | 67.90 | -90.07 | 3,880.98 | -509.56 | 880.00 | 744.53 | 135.47 | 6.496 | | |
| 9,000.00 | 5,300.00 | 8,995.82 | 5,300.00 | 69.57 | 69.51 | -90.07 | 3,980.96 | -511.20 | 880.00 | 741.31 | 138.69 | 6.345 | | |
| 9,000.01 | 5,300.00 | 8,995.82 | 5,300.00 | 69.57 | 69.51 | -90.07 | 3,980.97 | -511.20 | 880.00 | 741.31 | 138.69 | 6.345 | | |
| 9,100.00 | 5,300.00 | 9,095.82 | 5,300.00 | 71.18 | 71.12 | -90.07 | 4,080.95 | -512.85 | 880.00 | 738.08 | 141.92 | 6.201 | | |
| 9,100.01 | 5,300.00 | 9,095.82 | 5,300.00 | 71.18 | 71.12 | -90.07 | 4,080.95 | -512.85 | 880.00 | 738.08 | 141.92 | 6.201 | | |
| 9,200.00 | 5,300.00 | 9,195.82 | 5,300.00 | 72.79 | 72.73 | -90.07 | 4,180.94 | -514.49 | 880.00 | 734.85 | 145.15 | 6.063 | | |
| 9,200.01 | 5,300.00 | 9,195.82 | 5,300.00 | 72.79 | 72.73 | -90.07 | 4,180.94 | -514.49 | 880.00 | 734.85 | 145.15 | 6.063 | | |
| 9,300.00 | 5,300.00 | 9,295.82 | 5,300.00 | 74.41 | 74.34 | -90.07 | 4,280.92 | -516.13 | 880.00 | 731.61 | 148.39 | 5.930 | | |
| 9,300.01 | 5,300.00 | 9,295.82 | 5,300.00 | 74.41 | 74.34 | -90.07 | 4,280.93 | -516.13 | 880.00 | 731.61 | 148.39 | 5.930 | | |
| 9,400.00 | 5,300.00 | 9,395.82 | 5,300.00 | 76.03 | 75.96 | -90.07 | 4,380.91 | -517.77 | 880.00 | 728.37 | 151.63 | 5.804 | | |
| 9,400.01 | 5,300.00 | 9,395.82 | 5,300.00 | 76.03 | 75.96 | -90.07 | 4,380.91 | -517.77 | 880.00 | 728.37 | 151.63 | 5.804 | | |
| 9,500.00 | 5,300.00 | 9,495.82 | 5,300.00 | 77.65 | 77.58 | -90.07 | 4,480.89 | -519.41 | 880.00 | 725.12 | 154.88 | 5.682 | | |
| 9,500.01 | 5,300.00 | 9,495.82 | 5,300.00 | 77.65 | 77.58 | -90.07 | 4,480.90 | -519.41 | 880.00 | 725.12 | 154.88 | 5.682 | | |
| 9,600.00 | 5,300.00 | 9,595.82 | 5,300.00 | 79.27 | 79.20 | -90.07 | 4,580.88 | -521.05 | 880.00 | 721.87 | 158.13 | 5.565 | | |
| 9,600.01 | 5,300.00 | 9,595.82 | 5,300.00 | 79.27 | 79.20 | -90.07 | 4,580.89 | -521.05 | 880.00 | 721.87 | 158.13 | 5.565 | | |
| 9,700.00 | 5,300.00 | 9,695.82 | 5,300.00 | 80.89 | 80.83 | -90.07 | 4,680.87 | -522.69 | 880.00 | 718.62 | 161.38 | 5.453 | | |
| 9,700.01 | 5,300.00 | 9,695.82 | 5,300.00 | 80.89 | 80.83 | -90.07 | 4,680.87 | -522.69 | 880.00 | 718.62 | 161.38 | 5.453 | | |
| 9,800.00 | 5,300.00 | 9,795.82 | 5,300.00 | 82.52 | 82.46 | -90.07 | 4,780.85 | -524.34 | 880.00 | 715.36 | 164.64 | 5.345 | | |
| 9,800.01 | 5,300.00 | 9,795.82 | 5,300.00 | 82.52 | 82.46 | -90.07 | 4,780.86 | -524.34 | 880.00 | 715.36 | 164.64 | 5.345 | | |
| 9,900.00 | 5,300.00 | 9,895.82 | 5,300.00 | 84.15 | 84.08 | -90.07 | 4,880.84 | -525.98 | 880.00 | 712.09 | 167.91 | 5.241 | | |
| 9,900.01 | 5,300.00 | 9,895.82 | 5,300.00 | 84.15 | 84.08 | -90.07 | 4,880.85 | -525.98 | 880.00 | 712.09 | 167.91 | 5.241 | | |
| 10,000.00 | 5,300.00 | 9,995.82 | 5,300.00 | 85.78 | 85.71 | -90.07 | 4,980.83 | -527.62 | 880.00 | 708.83 | 171.17 | 5.141 | | |
| 10,000.01 | 5,300.00 | 9,995.82 | 5,300.00 | 85.78 | 85.71 | -90.07 | 4,980.83 | -527.62 | 880.00 | 708.83 | 171.17 | 5.141 | | |
| 10,100.00 | 5,300.00 | 10,095.82 | 5,300.00 | 87.41 | 87.35 | -90.07 | 5,080.81 | -529.26 | 880.00 | 705.56 | 174.44 | 5.045 | | |
| 10,100.01 | 5,300.00 | 10,095.82 | 5,300.00 | 87.41 | 87.35 | -90.07 | 5,080.82 | -529.26 | 880.00 | 705.56 | 174.44 | 5.045 | | |
| 10,200.00 | 5,300.00 | 10,195.82 | 5,300.00 | 89.04 | 88.98 | -90.07 | 5,180.80 | -530.90 | 880.00 | 702.28 | 177.72 | 4.952 | | |
| 10,200.01 | 5,300.00 | 10,195.82 | 5,300.00 | 89.04 | 88.98 | -90.07 | 5,180.81 | -530.90 | 880.00 | 702.28 | 177.72 | 4.952 | | |
| 10,300.00 | 5,300.00 | 10,295.82 | 5,300.00 | 90.68 | 90.62 | -90.07 | 5,280.79 | -532.54 | 880.00 | 699.01 | 180.99 | 4.862 | | |
| 10,300.01 | 5,300.00 | 10,295.82 | 5,300.00 | 90.68 | 90.62 | -90.07 | 5,280.79 | -532.54 | 880.00 | 699.01 | 180.99 | 4.862 | | |
| 10,400.00 | 5,300.00 | 10,395.82 | 5,300.00 | 92.32 | 92.25 | -90.07 | 5,380.77 | -534.18 | 880.00 | 695.73 | 184.27 | 4.776 | | |
| 10,400.01 | 5,300.00 | 10,395.82 | 5,300.00 | 92.32 | 92.25 | -90.07 | 5,380.78 | -534.18 | 880.00 | 695.73 | 184.27 | 4.776 | | |
| 10,500.00 | 5,300.00 | 10,495.82 | 5,300.00 | 93.95 | 93.89 | -90.07 | 5,480.76 | -535.83 | 880.00 | 692.45 | 187.55 | 4.692 | | |
| 10,500.01 | 5,300.00 | 10,495.82 | 5,300.00 | 93.95 | 93.89 | -90.07 | 5,480.77 | -535.83 | 880.00 | 692.45 | 187.55 | 4.692 | | |
| 10,600.00 | 5,300.00 | 10,595.82 | 5,300.00 | 95.59 | 95.53 | -90.07 | 5,580.75 | -537.47 | 880.00 | 689.17 | 190.84 | 4.611 | | |
| 10,600.01 | 5,300.00 | 10,595.82 | 5,300.00 | 95.59 | 95.53 | -90.07 | 5,580.75 | -537.47 | 880.00 | 689.17 | 190.84 | 4.611 | | |
| 10,700.00 | 5,300.00 | 10,695.82 | 5,300.00 | 97.23 | 97.17 | -90.07 | 5,680.73 | -539.11 | 880.00 | 685.88 | 194.12 | 4.533 | | |
| 10,700.01 | 5,300.00 | 10,695.82 | 5,300.00 | 97.23 | 97.17 | -90.07 | 5,680.74 | -539.11 | 880.00 | 685.88 | 194.12 | 4.533 | | |
| 10,800.00 | 5,300.00 | 10,795.82 | 5,300.00 | 98.88 | 98.81 | -90.07 | 5,780.72 | -540.75 | 880.00 | 682.59 | 197.41 | 4.458 | | |
| 10,800.01 | 5,300.00 | 10,795.83 | 5,300.00 | 98.88 | 98.81 | -90.07 | 5,780.73 | -540.75 | 880.00 | 682.59 | 197.41 | 4.458 | | |
| 10,909.73 | 5,300.00 | 10,905.55 | 5,300.00 | 100.68 | 100.62 | -90.07 | 5,890.44 | -542.55 | 880.00 | 678.98 | 201.02 | 4.378 | | |
| 10,909.74 | 5,300.00 | 10,905.56 | 5,300.00 | 100.68 | 100.62 | -90.07 | 5,890.45 | -542.55 | 880.00 | 678.98 | 201.02 | 4.378 | | |
| 10,910.48 | 5,300.00 | 10,906.30 | 5,300.00 | 100.69 | 100.63 | -90.07 | 5,891.19 | -542.56 | 880.00 | 678.96 | 201.04 | 4.377 SF | | |
| 10,910.48 | 5,300.00 | 10,906.30 | 5,300.00 | 100.69 | 100.63 | -90.07 | 5,891.19 | -542.56 | 880.00 | 678.96 | 201.04 | 4.377 SF | | |

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Depths are relative to GL 3810 + RKB 19 @ 3829.00ft (Nort

Salamanca State #2H Reference Site:

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft Reference Wellbore Wellbore #1 Reference Design: Plan #1

Offset Depths are relative to Offset Datum

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Output errors are at

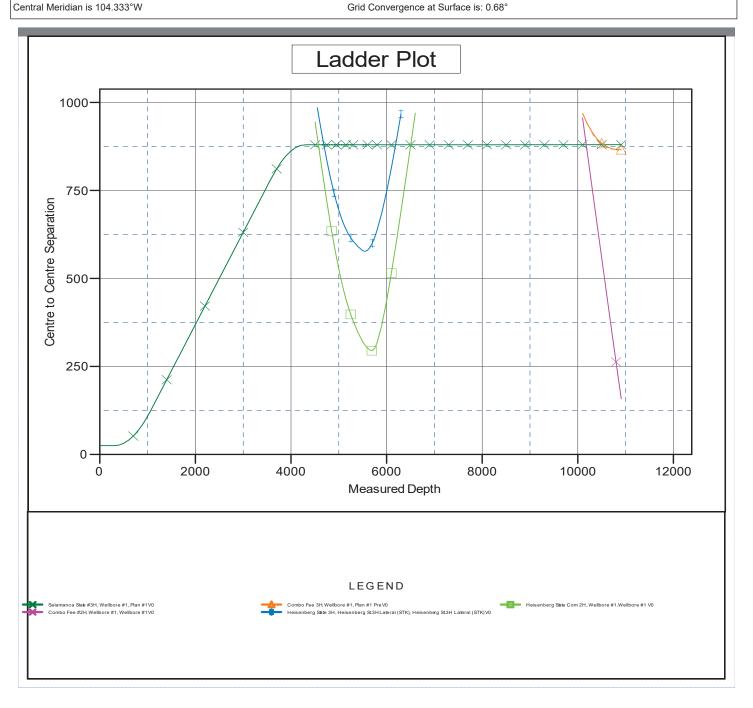
Database: Offset TVD Reference: Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Minimum Curvature 2.00 sigma edmdb Offset Datum

Coordinates are relative to: Salamanca State #2H Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.68°



Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Reference Site: Salamanca State #2H

Site Error: 0.00 ft

Reference Well: Salamanca State #2H

Well Error: 0.00 ft
Reference Wellbore Wellbore #1
Reference Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

North Reference:
Survey Calculation Method:
Output errors are at

Database: Offset TVD Reference: Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

Minimum Curvature 2.00 sigma edmdb Offset Datum

Reference Depths are relative to GL 3810 + RKB 19 @ 3829.00ft (Nort

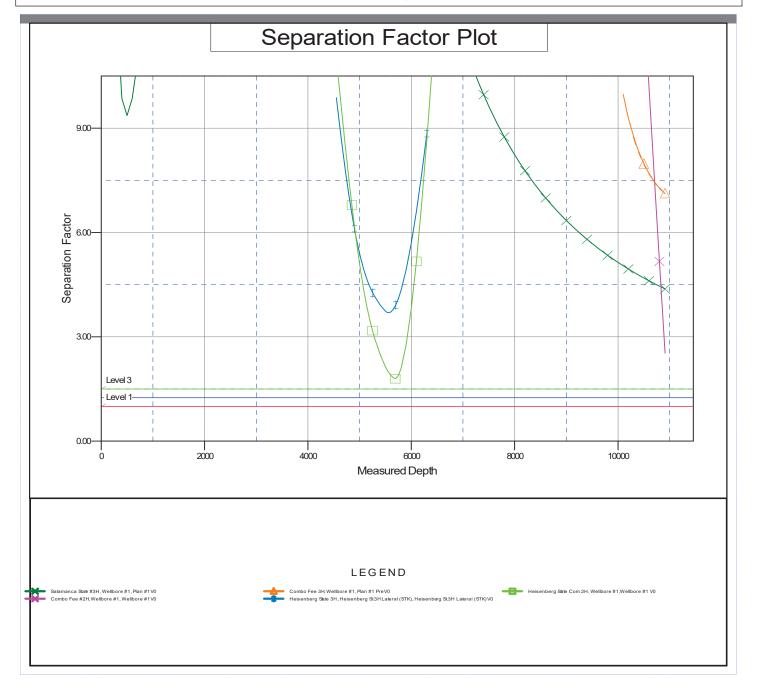
Offset Depths are relative to Offset Datum

Central Meridian is 104.333°W

Coordinates are relative to: Salamanca State #2H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.68°



6000

-4500

3000

-1500

Start 5104.12 hold at 5805.62 MD

Steward Energy II, LLC

DrilTech, LLC

LTP/PBHL ST #2H

Roof Pizza Fee 4H/Plan #1 PRE

#1

FTP ST #2H

Steward Energy II, LLC Salamanca State #2H Wellbore #1 Plan #1 Norton 8



SURFACE LOCATION

US State Plane 1983

Northing Easting Latittude 785660.77 924254.87

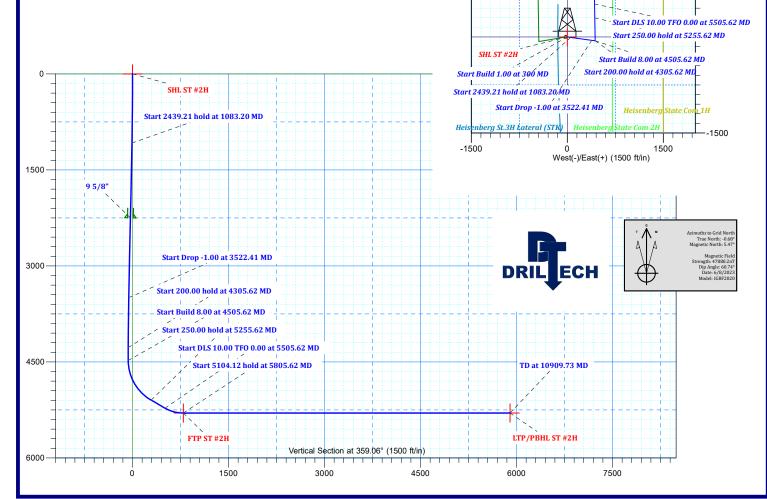
Elevation: GL 3810 + RKB 19 @ 3829.00ft (Norton 8) Longitude 103.082°W

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

| Name | TVD | +N/-S | +E/-W | Northing | Easting |
|-----------------|---------|---------|--------|-----------|-----------|
| SHL ST #2H | 0.00 | 0.00 | 0.00 | 785660.77 | 924254.87 |
| FTP ST #2H | 5300.00 | 801.45 | 421.10 | 786462.22 | 924675.97 |
| LTP/PBHL ST #2H | 5300.00 | 5904.88 | 337.33 | 791565.64 | 924592.20 |

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 | |
| 1083.20 | 7.83 | 97.79 | 1080.77 | -7.24 | 52.95 | 1.00 | -8.11 | |
| 3522.41 | 7.83 | 97.79 | 3497.22 | -52.27 | 382.28 | 0.00 | -58.54 | |
| 4305.62 | 0.00 | 0.00 | 4277.99 | -59.51 | 435.23 | 1.00 | -66.65 | |
| 4505.62 | 0.00 | 0.00 | 4477.99 | -59.51 | 435.23 | 0.00 | -66.65 | |
| 5255.62 | 60.00 | 359.06 | 5098.24 | 298.54 | 429.36 | 8.00 | 291.45 | |
| 5505.62 | 60.00 | 359.06 | 5223.24 | 515.01 | 425.81 | 0.00 | 507.96 | |
| 5805.62 | 90.00 | 359.06 | 5300.00 | 801.45 | 421.11 | 10.00 | 794.44 | |
| 10909.73 | 90.00 | 359.06 | 5300.00 | 5904.88 | 337.33 | 0.00 | 5898.55 | |



Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone Salamanca State #2H Salamanca State #2H

Wellbore #1

Plan: Plan #1

Standard Planning Report

08 June, 2023

Database: Company: edmdb

Steward Energy II, LLC

Project:

Lea County, NM (NAD 83) NM East Zone

Site: Well: Wellbore: Salamanca State #2H Salamanca State #2H

Wellbore #1 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Minimum Curvature

Design: Project

Lea County, NM (NAD 83) NM East Zone

Map System: Geo Datum:

Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Salamanca State #2H Site

Site Position: From:

Мар

Northing: Easting:

785,660.77 usft 924,254.87 usft

785,660.77 usft

924,254.87 usft

ft

Latitude: Longitude:

33.153°N 103.082°W

Position Uncertainty: 0.00 ft Slot Radius: 13.200 in

Well Salamanca State #2H

Well Position +N/-S +E/-W

Position Uncertainty

0.00 ft 0.00 ft 0.00 ft

Northing: Easting:

Wellhead Elevation:

Latitude: Longitude: Ground Level:

33.153°N 103.082°W 3,810.00 ft

0.68° **Grid Convergence:**

Wellbore #1

Model Name Declination Field Strength Magnetics Sample Date Dip Angle (°) (°) (nT) 47,880.19563084 IGRF2020 6/8/2023 6.15 60.74

Design Plan #1

Audit Notes:

Wellbore

Version:

Phase: Vertical Section: Depth From (TVD) (ft)

PLAN

+N/-S (ft)

0.00

Tie On Depth: +E/-W (ft)

0.00

0.00 Direction

(°) 359.06

Plan Survey Tool Program

6/8/2023 Date

0.00

Depth From (ft) 0.00

Depth To (ft) Survey (Wellbore) 10,909.73 Plan #1 (Wellbore #1)

Tool Name MWD

Remarks

MWD - Standard

Database:

edmdb

Company: Steward Energy II, LLC Project:

Site: Well:

Wellbore: Design:

Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H Salamanca State #2H

Wellbore #1 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

| lan 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 | |
| 1,083.20 | 7.83 | 97.79 | 1,080.77 | -7.24 | 52.95 | 1.00 | 1.00 | 0.00 | 97.79 | |
| 3,522.41 | 7.83 | 97.79 | 3,497.22 | -52.27 | 382.28 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,305.62 | 0.00 | 0.00 | 4,277.99 | -59.51 | 435.23 | 1.00 | -1.00 | 0.00 | 180.00 | |
| 4,505.62 | 0.00 | 0.00 | 4,477.99 | -59.51 | 435.23 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,255.62 | 60.00 | 359.06 | 5,098.24 | 298.54 | 429.36 | 8.00 | 8.00 | 0.00 | 359.06 | |
| 5,505.62 | 60.00 | 359.06 | 5,223.24 | 515.01 | 425.81 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,805.62 | 90.00 | 359.06 | 5,300.00 | 801.45 | 421.11 | 10.00 | 10.00 | 0.00 | 0.00 | |
| 10,909.73 | 90.00 | 359.06 | 5,300.00 | 5,904.88 | 337.33 | 0.00 | 0.00 | 0.00 | 0.00 | LTP/PBHL ST #2H |

Database: Company: edmdb

Steward Energy II, LLC

Project:

Lea County, NM (NAD 83) NM East Zone

Site: Well: Salamanca State #2H

Wellbore: Design:

Salamanca State #2H

Wellbore #1 Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

| lanned | 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 | 97.79 | 399.99 | -0.12 | 0.86 | -0.13 | 1.00 | 1.00 | 0.00 |
| | 500.00 | 2.00 | 97.79 | 499.96 | -0.47 | 3.46 | -0.53 | 1.00 | 1.00 | 0.00 |
| | 600.00 | 3.00 | 97.79 | 599.86 | -1.06 | 7.78 | -1.19 | 1.00 | 1.00 | 0.00 |
| | 700.00 | 4.00 | 97.79 | 699.68 | -1.89 | 13.83 | -2.12 | 1.00 | 1.00 | 0.00 |
| | 800.00 | 5.00 | 97.79 | 799.37 | -2.95 | 21.60 | -3.31 | 1.00 | 1.00 | 0.00 |
| | 900.00 | 6.00 | 97.79 | 898.90 | -4.25 | 31.10 | -4.76 | 1.00 | 1.00 | 0.00 |
| | | | | | | | | | | |
| | 1,000.00 | 7.00 | 97.79 | 998.26 | -5.79 | 42.31 | -6.48 | 1.00 | 1.00 | 0.00 |
| | 1,083.20 | 7.83 | 97.79 | 1,080.77 | -7.24 | 52.95 | -8.11 | 1.00 | 1.00 | 0.00 |
| | Start 2439.21 | 1 hold at 1083.20 | MD | | | | | | | |
| | 1,100.00 | 7.83 | 97.79 | 1,097.41 | -7.55 | 55.22 | -8.46 | 0.00 | 0.00 | 0.00 |
| | 1,200.00 | 7.83 | 97.79 | 1,196.47 | -9.40 | 68.72 | -10.52 | 0.00 | 0.00 | 0.00 |
| | 1,300.00 | 7.83 | 97.79 | 1,295.54 | -11.24 | 82.22 | -12.59 | 0.00 | 0.00 | 0.00 |
| | 4 400 00 | 7.00 | 07.70 | 1.394.61 | 42.00 | 05.70 | 44.00 | 0.00 | 0.00 | 0.00 |
| | 1,400.00 | 7.83 | 97.79 | , | -13.09 | 95.73 | -14.66 | 0.00 | 0.00 | 0.00 |
| | 1,500.00 | 7.83 | 97.79 | 1,493.68 | -14.94 | 109.23 | -16.73 | 0.00 | 0.00 | 0.00 |
| | 1,600.00 | 7.83 | 97.79 | 1,592.74 | -16.78 | 122.73 | -18.79 | 0.00 | 0.00 | 0.00 |
| | 1,700.00 | 7.83 | 97.79 | 1,691.81 | -18.63 | 136.23 | -20.86 | 0.00 | 0.00 | 0.00 |
| | 1,800.00 | 7.83 | 97.79 | 1,790.88 | -20.47 | 149.73 | -22.93 | 0.00 | 0.00 | 0.00 |
| | 1,900.00 | 7.83 | 97.79 | 1,889.94 | -22.32 | 163.23 | -25.00 | 0.00 | 0.00 | 0.00 |
| | 2,000.00 | 7.83 | 97.79 | 1,989.01 | -24.17 | 176.73 | -27.06 | 0.00 | 0.00 | 0.00 |
| | 2,100.00 | 7.83 | 97.79 | 2,088.08 | -26.01 | 190.23 | -29.13 | 0.00 | 0.00 | 0.00 |
| | 2,200.00 | 7.83 | 97.79 | 2,187.15 | -27.86 | 203.74 | -31.20 | 0.00 | 0.00 | 0.00 |
| | 2,263.45 | 7.83 | 97.79 | 2,250.00 | -29.03 | 212.30 | -32.51 | 0.00 | 0.00 | 0.00 |
| | 9 5/8" | | | | | | | | | |
| | 2,300.00 | 7.83 | 97.79 | 2,286.21 | -29.71 | 217.24 | -33.27 | 0.00 | 0.00 | 0.00 |
| | 2,400.00 | 7.83 | 97.79 | 2,385.28 | -31.55 | 230.74 | -35.33 | 0.00 | 0.00 | 0.00 |
| | 2,500.00 | 7.83 | 97.79 | 2,484.35 | -33.40 | 244.24 | -37.40 | 0.00 | 0.00 | 0.00 |
| | 2,600.00 | 7.83 | 97.79 | 2,583.41 | -35.24 | 257.74 | -39.47 | 0.00 | 0.00 | 0.00 |
| | 2,700.00 | 7.83 | 97.79 | 2,682.48 | -37.09 | 271.24 | -41.53 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | | |
| | 2,800.00 | 7.83 | 97.79 | 2,781.55 | -38.94 | 284.74 | -43.60 | 0.00 | 0.00 | 0.00 |
| | 2,900.00 | 7.83 | 97.79 | 2,880.62 | -40.78 | 298.25 | -45.67 | 0.00 | 0.00 | 0.00 |
| | 3,000.00 | 7.83 | 97.79 | 2,979.68 | -42.63 | 311.75 | -47.74 | 0.00 | 0.00 | 0.00 |
| | 3,100.00 | 7.83 | 97.79 | 3,078.75 | -44.47 | 325.25 | -49.80 | 0.00 | 0.00 | 0.00 |
| | 3,200.00 | 7.83 | 97.79 | 3,177.82 | -46.32 | 338.75 | -51.87 | 0.00 | 0.00 | 0.00 |
| | 3,300.00 | 7.83 | 97.79 | 3,276.88 | -48.17 | 352.25 | -53.94 | 0.00 | 0.00 | 0.00 |
| | 3,400.00 | 7.83 | 97.79 | 3,375.95 | -50.01 | 365.75 | -56.01 | 0.00 | 0.00 | 0.00 |
| | 3,500.00 | 7.83 | 97.79 | 3,475.02 | -51.86 | 379.25 | -58.07 | 0.00 | 0.00 | 0.00 |
| | 3,522.41 | 7.83 | 97.79 | 3,497.22 | -52.27 | 382.28 | -58.54 | 0.00 | 0.00 | 0.00 |
| | | .00 at 3522.41 M | | -, | | | , | | | |
| | 3,600.00 | 7.06 | 97.79 | 3,574.16 | -53.64 | 392.24 | -60.06 | 1.00 | -1.00 | 0.00 |
| | 3,700.00 | 6.06 | | 3,673.50 | -55.18 | | -61.79 | | -1.00 | 0.00 |
| | | | 97.79 97.79 | | | 403.55 | | 1.00 | | |
| | 3,800.00 | 5.06 | 97.79 | 3,773.03 | -56.49 | 413.14 | -63.26 | 1.00 | -1.00 | 0.00 |
| | 3,900.00 | 4.06 | 97.79 | 3,872.71 | -57.57 | 421.01 | -64.47 | 1.00 | -1.00 | 0.00 |
| | 4,000.00 | 3.06 | 97.79 | 3,972.52 | -58.41 | 427.16 | -65.41 | 1.00 | -1.00 | 0.00 |
| | 4,100.00 | 2.06 | 97.79 | 4,072.42 | -59.01 | 431.58 | -66.09 | 1.00 | -1.00 | 0.00 |
| | 4,200.00 | 1.06 | 97.79 | 4,172.38 | -59.38 | 434.27 | -66.50 | 1.00 | -1.00 | 0.00 |
| | 4,300.00 | 0.06 | 97.79 | 4,272.37 | -59.51 | 435.23 | -66.65 | 1.00 | -1.00 | 0.00 |
| | 4,305.62 | 0.00 | 0.00 | 4,277.99 | -59.51 | 435.23 | -66.65 | 1.00 | -1.00 | 0.00 |
| | | hold at 4305.62 | | | | | | | | |
| | 4,400.00 | 0.00 | 0.00 | 4,372.37 | -59.51 | 435.23 | -66.65 | 0.00 | 0.00 | 0.00 |

Database: Company: edmdb

Steward Energy II, LLC

Project:

Lea County, NM (NAD 83) NM East Zone

Site: Well: Salamanca State #2H Salamanca State #2H

Wellbore: Design: Wellbore #1

Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| ,,,g | | | | | | | | | |
|------------------|-----------------------|------------------|----------------------|----------------------|------------------|----------------------|--------------|-----------|--------------|
| nned Survey | | | | | | | | | |
| | | | | | | | | | |
| Measure | d | | Vertical | | | Vertical | Dogleg | Build | Turn |
| Depth | Inclination | Azimuth | Depth | +N/-S | +E/-W | Section | Rate | Rate | Rate |
| (ft) | (°) | (°) | (ft) | (ft) | (ft) | (ft) | (°/100ft) | (°/100ft) | (°/100ft) |
| 4,500. | 0.00 | 0.00 | 4,472.37 | -59.51 | 435.23 | -66.65 | 0.00 | 0.00 | 0.00 |
| 4,505. | | 0.00 | 4,477.99 | -59.51 | 435.23 | -66.65 | 0.00 | 0.00 | 0.00 |
| | ild 8.00 at 4505.62 M | | 4,477.55 | -55.51 | 400.20 | -00.03 | 0.00 | 0.00 | 0.00 |
| 4,600. | | 359.06 | 4,572.10 | -53.30 | 435.13 | -60.44 | 8.00 | 8.00 | 0.00 |
| 4,700. | | 359.06 | 4,670.00 | -33.30 | 434.80 | -40.43 | 8.00 | 8.00 | 0.00 |
| 4,800. | | 359.06 | 4,764.15 | 0.13 | 434.25 | -6.99 | 8.00 | 8.00 | 0.00 |
| 4,900. | | 359.06 | 4,852.74 | 46.34 | 433.50 | 39.22 | 8.00 | 8.00 | 0.00 |
| 5,000. | 00 39.55 | 359.06 | 4,934.04 | 104.43 | 432.54 | 97.32 | 8.00 | 8.00 | 0.00 |
| 5,000. 5,100. | | 359.06 | 5,006.45 | 173.26 | 431.41 | 166.16 | 8.00 | 8.00 | 0.00 |
| 5,200. | | 359.06 | 5,068.59 | 251.50 | 430.13 | 244.41 | 8.00 | 8.00 | 0.00 |
| 5,255. | | 359.06 | 5,098.24 | 298.54 | 429.36 | 291.45 | 8.00 | 8.00 | 0.00 |
| | | | 3,090.24 | 290.04 | 429.50 | 291.43 | 0.00 | 0.00 | 0.00 |
| | 0.00 hold at 5255.62 | | E 100 10 | 226.07 | 400.70 | 200.00 | 0.00 | 0.00 | 0.00 |
| 5,300. | 00 60.00 | 359.06 | 5,120.43 | 336.97 | 428.73 | 329.89 | 0.00 | 0.00 | 0.00 |
| 5,400. | 00 60.00 | 359.06 | 5,170.43 | 423.56 | 427.31 | 416.49 | 0.00 | 0.00 | 0.00 |
| 5,500. | 00 60.00 | 359.06 | 5,220.43 | 510.15 | 425.89 | 503.09 | 0.00 | 0.00 | 0.00 |
| 5,505. | 62 60.00 | 359.06 | 5,223.24 | 515.01 | 425.81 | 507.96 | 0.00 | 0.00 | 0.00 |
| Start DL | S 10.00 TFO 0.00 at | 5505.62 MD | | | | | | | |
| 5,600. | 00 69.44 | 359.06 | 5,263.50 | 600.25 | 424.41 | 593.21 | 10.00 | 10.00 | 0.00 |
| 5,700. | 00 79.44 | 359.06 | 5,290.29 | 696.45 | 422.83 | 689.42 | 10.00 | 10.00 | 0.00 |
| 5,800. | 00 89.44 | 359.06 | 5,299.97 | 795.84 | 421.20 | 788.82 | 10.00 | 10.00 | 0.00 |
| 5,800. 5,805. | | 359.06 | 5,299.97 | 801.45 | 421.20 | 700.02 794.44 | 10.00 | 10.00 | 0.00 |
| | | | 3,300.00 | 001.40 | 441.11 | 1 34.44 | 10.00 | 10.00 | 0.00 |
| | 04.12 hold at 5805.62 | | E 200 00 | 905 90 | 440 FC | 000 00 | 0.00 | 0.00 | 0.00 |
| 5,900. | | 359.06 350.06 | 5,300.00 5,300.00 | 895.82 995.81 | 419.56 417.92 | 888.82 988.82 | 0.00 | 0.00 | |
| 6,000. 6,100. | | 359.06 359.06 | 5,300.00 | 1,095.80 | 417.92 | 1,088.82 | 0.00 0.00 | 0.00 | 0.00 0.00 |
| | | | | | | | | | |
| 6,200. | | 359.06 | 5,300.00 | 1,195.78 | 414.63 | 1,188.82 | 0.00 | 0.00 | 0.00 |
| 6,300. | | 359.06 | 5,300.00 | 1,295.77 | 412.99 | 1,288.82 | 0.00 | 0.00 | 0.00 |
| 6,400. | | 359.06 | 5,300.00 | 1,395.76 | 411.35 | 1,388.82 | 0.00 | 0.00 | 0.00 |
| 6,500. | | 359.06 | 5,300.00 | 1,495.74 | 409.71 | 1,488.82 | 0.00 | 0.00 | 0.00 |
| 6,600. | 00 90.00 | 359.06 | 5,300.00 | 1,595.73 | 408.07 | 1,588.82 | 0.00 | 0.00 | 0.00 |
| 6,700. | 00 90.00 | 359.06 | 5,300.00 | 1,695.72 | 406.43 | 1,688.82 | 0.00 | 0.00 | 0.00 |
| 6,800. | | 359.06 | 5,300.00 | 1,795.70 | 404.78 | 1,788.82 | 0.00 | 0.00 | 0.00 |
| 6,900. | | 359.06 | 5,300.00 | 1,895.69 | 403.14 | 1,888.82 | 0.00 | 0.00 | 0.00 |
| 7,000. | | 359.06 | 5,300.00 | 1,995.68 | 401.50 | 1,988.82 | 0.00 | 0.00 | 0.00 |
| 7,100. | | 359.06 | 5,300.00 | 2,095.66 | 399.86 | 2,088.82 | 0.00 | 0.00 | 0.00 |
| 7,200. | 00 90.00 | 359.06 | 5,300.00 | 2,195.65 | 398.22 | 2,188.82 | 0.00 | 0.00 | 0.00 |
| 7,200. 7,300. | | 359.06 359.06 | 5,300.00 | 2,195.65 | 398.22 396.58 | 2,188.82 | 0.00 | 0.00 | 0.00 |
| 7,300. 7,400. | | 359.06 359.06 | 5,300.00 | 2,295.64 2,395.62 | 396.58 394.94 | 2,288.82 | 0.00 | 0.00 | 0.00 |
| 7,400. 7,500. | | | | 2,395.62 2,495.61 | | , | 0.00 | 0.00 | 0.00 |
| 7,500. 7,600. | | 359.06 359.06 | 5,300.00 5,300.00 | 2,495.61 | 393.30 391.65 | 2,488.82 2,588.82 | 0.00 | 0.00 | 0.00 |
| * | | | | , | | | | | |
| 7,700. | | 359.06 | 5,300.00 | 2,695.58 | 390.01 | 2,688.82 | 0.00 | 0.00 | 0.00 |
| 7,800. | | 359.06 | 5,300.00 | 2,795.57 | 388.37 | 2,788.82 | 0.00 | 0.00 | 0.00 |
| 7,900. | | 359.06 | 5,300.00 | 2,895.55 | 386.73 | 2,888.82 | 0.00 | 0.00 | 0.00 |
| 8,000. | | 359.06 | 5,300.00 | 2,995.54 | 385.09 | 2,988.82 | 0.00 | 0.00 | 0.00 |
| 8,100. | 00 90.00 | 359.06 | 5,300.00 | 3,095.53 | 383.45 | 3,088.82 | 0.00 | 0.00 | 0.00 |
| 8,200. | 00 90.00 | 359.06 | 5,300.00 | 3,195.51 | 381.81 | 3,188.82 | 0.00 | 0.00 | 0.00 |
| 8,300. | | 359.06 | 5,300.00 | 3,295.50 | 380.16 | 3,288.82 | 0.00 | 0.00 | 0.00 |
| 8,400. | | 359.06 | 5,300.00 | 3,395.49 | 378.52 | 3,388.82 | 0.00 | 0.00 | 0.00 |
| 8,500. | | 359.06 | 5,300.00 | 3,495.47 | 376.88 | 3,488.82 | 0.00 | 0.00 | 0.00 |
| 8,600. | | 359.06 | 5,300.00 | 3,595.46 | 375.24 | 3,588.82 | 0.00 | 0.00 | 0.00 |
| | | | | | | | | | |
| 8,700. | 00 90.00 | 359.06 | 5,300.00 | 3,695.45 | 373.60 | 3,688.82 | 0.00 0.00 | 0.00 | 0.00 |
| 8,800. | 00 90.00 | 359.06 | 5,300.00 | 3,795.43 | 371.96 | 3,788.82 | | 0.00 | 0.00 |

Database: Company: edmdb

Steward Energy II, LLC

Project:

Lea County, NM (NAD 83) NM East Zone

Site: Well: Salamanca State #2H Salamanca State #2H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

OL 30

| anned 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 | 3,995.41 | 368.68 | 3,988.82 | 0.00 | 0.00 | 0.00 |
| 9,100.00 | 90.00 | 359.06 | 5,300.00 | 4,095.39 | 367.03 | 4,088.82 | 0.00 | 0.00 | 0.00 |
| 9,200.00 | 90.00 | 359.06 | 5,300.00 | 4,195.38 | 365.39 | 4,188.82 | 0.00 | 0.00 | 0.00 |
| 9,300.00 | 90.00 | 359.06 | 5,300.00 | 4,295.37 | 363.75 | 4,288.82 | 0.00 | 0.00 | 0.00 |
| 9,400.00 | 90.00 | 359.06 | 5,300.00 | 4,395.35 | 362.11 | 4,388.82 | 0.00 | 0.00 | 0.00 |
| 9,500.00 | 90.00 | 359.06 | 5,300.00 | 4,495.34 | 360.47 | 4,488.82 | 0.00 | 0.00 | 0.00 |
| 9,600.00 | 90.00 | 359.06 | 5,300.00 | 4,595.33 | 358.83 | 4,588.82 | 0.00 | 0.00 | 0.00 |
| 9,700.00 | 90.00 | 359.06 | 5,300.00 | 4,695.31 | 357.19 | 4,688.82 | 0.00 | 0.00 | 0.00 |
| 9,800.00 | 90.00 | 359.06 | 5,300.00 | 4,795.30 | 355.54 | 4,788.82 | 0.00 | 0.00 | 0.00 |
| 9,900.00 | 90.00 | 359.06 | 5,300.00 | 4,895.29 | 353.90 | 4,888.82 | 0.00 | 0.00 | 0.00 |
| 10,000.00 | 90.00 | 359.06 | 5,300.00 | 4,995.27 | 352.26 | 4,988.82 | 0.00 | 0.00 | 0.00 |
| 10,100.00 | 90.00 | 359.06 | 5,300.00 | 5,095.26 | 350.62 | 5,088.82 | 0.00 | 0.00 | 0.00 |
| 10,200.00 | 90.00 | 359.06 | 5,300.00 | 5,195.24 | 348.98 | 5,188.82 | 0.00 | 0.00 | 0.00 |
| 10,300.00 | 90.00 | 359.06 | 5,300.00 | 5,295.23 | 347.34 | 5,288.82 | 0.00 | 0.00 | 0.00 |
| 10,400.00 | 90.00 | 359.06 | 5,300.00 | 5,395.22 | 345.70 | 5,388.82 | 0.00 | 0.00 | 0.00 |
| 10,500.00 | 90.00 | 359.06 | 5,300.00 | 5,495.20 | 344.06 | 5,488.82 | 0.00 | 0.00 | 0.00 |
| 10,600.00 | 90.00 | 359.06 | 5,300.00 | 5,595.19 | 342.41 | 5,588.82 | 0.00 | 0.00 | 0.00 |
| 10,700.00 | 90.00 | 359.06 | 5,300.00 | 5,695.18 | 340.77 | 5,688.82 | 0.00 | 0.00 | 0.00 |
| 10,800.00 | 90.00 | 359.06 | 5,300.00 | 5,795.16 | 339.13 | 5,788.82 | 0.00 | 0.00 | 0.00 |
| 10,900.00 | 90.00 | 359.06 | 5,300.00 | 5,895.15 | 337.49 | 5,888.82 | 0.00 | 0.00 | 0.00 |
| 10,909.73 | 90.00 | 359.06 | 5,300.00 | 5,904.88 | 337.33 | 5,898.55 | 0.00 | 0.00 | 0.00 |
| TD at 10909. | 73 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 #2H - plan hits target cer - Point | 0.00 nter | 0.00 | 0.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| FTP ST #2H - plan misses target - Point | 0.00 center by 0.01 | 0.00 Ift at 5805.6 | 5,300.00 1ft MD (5300 | 801.45 .00 TVD, 801 | 421.10 .45 N, 421.11 I | 786,462.22 ≣) | 924,675.97 | 33.156°N | 103.081°W |
| LTP/PBHL ST #2H - plan hits target cer - Point | 0.00 nter | 0.00 | 5,300.00 | 5,904.88 | 337.33 | 791,565.64 | 924,592.20 | 33.170°N | 103.081°W |

| Casing Points | | | | | |
|---------------|----------|-----------------|------|----------|----------|
| | Measured | Vertical | | Casing | Hole |
| | Depth | Depth | | Diameter | Diameter |
| | (ft) | (ft) | Name | (in) | (in) |
| | 2,263.45 | 2,250.00 9 5/8" | | 9.625 | 12.250 |

Database: edmdb

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Site: Salamanca State #2H
Well: Salamanca State #2H
Wellbore: Wellbore #1

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| Plan Annotations | | | | | |
|------------------|-----------|----------|-------------|---------|--|
| М | leasured | Vertical | Local Coord | dinates | |
| | Depth | Depth | +N/-S | +E/-W | |
| | (ft) | (ft) | (ft) | (ft) | Comment |
| | 300.00 | 300.00 | 0.00 | 0.00 | Start Build 1.00 at 300 MD |
| | 1,083.20 | 1,080.77 | -7.24 | 52.95 | Start 2439.21 hold at 1083.20 MD |
| | 3,522.41 | 3,497.22 | -52.27 | 382.28 | Start Drop -1.00 at 3522.41 MD |
| | 4,305.62 | 4,277.99 | -59.51 | 435.23 | Start 200.00 hold at 4305.62 MD |
| | 4,505.62 | 4,477.99 | -59.51 | 435.23 | Start Build 8.00 at 4505.62 MD |
| | 5,255.62 | 5,098.24 | 298.54 | 429.36 | Start 250.00 hold at 5255.62 MD |
| | 5,505.62 | 5,223.24 | 515.01 | 425.81 | Start DLS 10.00 TFO 0.00 at 5505.62 MD |
| | 5,805.62 | 5,300.00 | 801.45 | 421.11 | Start 5104.12 hold at 5805.62 MD |
| | 10,909.73 | 5,300.00 | 5,904.88 | 337.33 | TD at 10909.73 MD |

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone Salamanca State #2H Salamanca State #2H

Wellbore #1

Plan: Plan #1

Standard Planning Report - Geographic

08 June, 2023

Database: Company: edmdb

Steward Energy II, LLC Lea County, NM (NAD 83) NM East Zone

Project: Site: Well:

Salamanca State #2H

Salamanca State #2H Wellbore: Wellbore #1 Plan #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Minimum Curvature

Project

Lea County, NM (NAD 83) NM East Zone

Map System: Geo Datum: Map Zone:

US State Plane 1983 North American Datum 1983 New Mexico Eastern Zone

System Datum:

Mean Sea Level

Salamanca State #2H Site

Site Position: From:

Well

Мар

+N/-S

+E/-W

Plan #1

Northing: Easting: Slot Radius:

Northing:

Easting:

785,660.77 usft 924,254.87 usft 13.200 in

Latitude: Longitude:

33.153°N 103.082°W

Position Uncertainty:

0.00 ft

785,660.77 usft 924,254.87 usft

Latitude: Longitude:

33.153°N 103.082°W

Position Uncertainty Grid Convergence:

0.00 ft 0.68°

0.00 ft

0.00 ft

Wellhead Elevation:

ft

Ground Level:

3,810.00 ft

Wellbore

Well Position

Wellbore #1

Salamanca State #2H

Declination Field Strength Magnetics **Model Name** Sample Date **Dip Angle** (°) (°) (nT) 47.880.19563084 IGRF2020 6/8/2023 6.15 60.74

Design

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

Remarks

0.00

+N/-S Vertical Section: Depth From (TVD) +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 359.06

Plan Survey Tool Program

Date 6/8/2023

Depth From Depth To

(ft) Survey (Wellbore) (ft) 0.00 10,909.73 Plan #1 (Wellbore #1) **Tool Name**

MWD

MWD - Standard

6/8/2023 4:00:27PM

Page 2

COMPASS 5000.17 Build 101

Database: Company:

Project:

edmdb

Steward Energy II, LLC

Lea County, NM (NAD 83) NM East Zone

Site: Salamanca State #2H
Well: Salamanca State #2H

Wellbore: Wellbore #1

Design: Plan #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| 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 | |
| 1,083.20 | 7.83 | 97.79 | 1,080.77 | -7.24 | 52.95 | 1.00 | 1.00 | 0.00 | 97.79 | |
| 3,522.41 | 7.83 | 97.79 | 3,497.22 | -52.27 | 382.28 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,305.62 | 0.00 | 0.00 | 4,277.99 | -59.51 | 435.23 | 1.00 | -1.00 | 0.00 | 180.00 | |
| 4,505.62 | 0.00 | 0.00 | 4,477.99 | -59.51 | 435.23 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,255.62 | 60.00 | 359.06 | 5,098.24 | 298.54 | 429.36 | 8.00 | 8.00 | 0.00 | 359.06 | |
| 5,505.62 | 60.00 | 359.06 | 5,223.24 | 515.01 | 425.81 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 5,805.62 | 90.00 | 359.06 | 5,300.00 | 801.45 | 421.11 | 10.00 | 10.00 | 0.00 | 0.00 | |
| 10,909.73 | 90.00 | 359.06 | 5,300.00 | 5,904.88 | 337.33 | 0.00 | 0.00 | 0.00 | 0.00 | LTP/PBHL ST #2H |

Database: edmdb

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Site: Salamanca State #2H
Well: Salamanca State #2H
Wellbare: #4

Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| Planned Survey | | | | | | | | | |
|------------------------|-----------------|----------------|----------------------|------------------|------------------|--------------------------|--------------------------|----------------------|------------------------|
| Measured | | | Vertical | | | Мар | Мар | | |
| Depth (ft) | Inclination (°) | Azimuth (°) | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| 100.00 | 0.00 | 0.00 | 100.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| 200.00 | 0.00 | 0.00 | 200.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| 300.00 | 0.00 | 0.00 | 300.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| Start Bui | ild 1.00 at 300 | MD | | | | | | | |
| 400.00 | 1.00 | 97.79 | 399.99 | -0.12 | 0.86 | 785,660.65 | 924,255.74 | 33.153°N | 103.082°W |
| 500.00 | 2.00 | 97.79 | 499.96 | -0.47 | 3.46 | 785,660.29 | 924,258.33 | 33.153°N | 103.082°W |
| 600.00 | 3.00 | 97.79 | 599.86 | -1.06 | 7.78 | 785,659.70 | 924,262.65 | 33.153°N | 103.082°W |
| 700.00 | 4.00 | 97.79 | 699.68 | -1.89 | 13.83 | 785,658.88 | 924,268.70 | 33.153°N | 103.082°W |
| 800.00 | 5.00 | 97.79 | 799.37 | -2.95 | 21.60 | 785,657.81 | 924,276.47 | 33.153°N | 103.082°W |
| 900.00 | 6.00 | 97.79 | 898.90 | -4.25 | 31.10 | 785,656.52 | 924,285.97 | 33.153°N | 103.082°W |
| 1,000.00 | 7.00 | 97.79 | 998.26 | -5.79 | 42.31 | 785,654.98 | 924,297.18 | 33.153°N | 103.082°W |
| 1,083.20 | 7.83 | 97.79 | 1,080.77 | -7.24 | 52.95 | 785,653.53 | 924,307.82 | 33.153°N | 103.082°W |
| | 9.21 hold at 1 | | | | | | | | |
| 1,100.00 | 7.83 | 97.79 | 1,097.41 | -7.55 | 55.22 | 785,653.22 | 924,310.09 | 33.153°N | 103.082°W |
| 1,200.00 | 7.83 | 97.79 | 1,196.47 | -9.40 | 68.72 | 785,651.37 | 924,323.59 | 33.153°N | 103.082°W |
| 1,300.00 | 7.83 | 97.79 | 1,295.54 | -11.24 | 82.22 | 785,649.52 | 924,337.09 | 33.153°N | 103.082°W |
| 1,400.00 | 7.83 | 97.79 | 1,394.61 | -13.09 | 95.73 | 785,647.68 | 924,350.60 | 33.153°N | 103.082°W |
| 1,500.00 | 7.83 | 97.79 | 1,493.68 | -14.94 | 109.23 | 785,645.83 | 924,364.10 | 33.153°N | 103.082°W |
| 1,600.00 | 7.83 | 97.79 | 1,592.74 | -16.78 | 122.73 | 785,643.99 | 924,377.60 | 33.153°N | 103.082°W |
| 1,700.00 | 7.83 | 97.79 | 1,691.81 | -18.63 | 136.23 | 785,642.14 | 924,391.10 | 33.153°N | 103.082°W |
| 1,800.00 | 7.83 | 97.79 | 1,790.88 | -20.47 | 149.73 | 785,640.29 | 924,404.60 | 33.153°N | 103.082°W |
| 1,900.00 | 7.83 | 97.79 | 1,889.94 | -22.32 | 163.23 | 785,638.45 | 924,418.10 | 33.153°N | 103.082°W |
| 2,000.00 | 7.83 | 97.79 | 1,989.01 | -24.17 | 176.73 | 785,636.60 | 924,431.60 | 33.153°N | 103.082°W |
| 2,100.00 | 7.83 | 97.79 | 2,088.08 | -26.01 -27.86 | 190.23 203.74 | 785,634.75 | 924,445.11 | 33.153°N | 103.082°W |
| 2,200.00 2,263.45 | 7.83 7.83 | 97.79 97.79 | 2,187.15 2,250.00 | -27.00 -29.03 | 212.30 | 785,632.91 785,631.74 | 924,458.61 924,467.17 | 33.153°N 33.153°N | 103.082°W 103.081°W |
| | 7.03 | 91.19 | 2,250.00 | -29.03 | 212.30 | 765,051.74 | 924,407.17 | 33.133 N | 103.061 W |
| 9 5/8" 2,300.00 | 7.83 | 97.79 | 2,286.21 | -29.71 | 217.24 | 785,631.06 | 924,472.11 | 33.153°N | 103.081°W |
| 2,400.00 | 7.83 | 97.79 | 2,385.28 | -31.55 | 230.74 | 785,629.22 | 924,485.61 | 33.153°N | 103.081°W |
| 2,500.00 | 7.83 | 97.79 | 2,365.26 | -31.55 | 244.24 | 785,627.37 | 924,499.11 | 33.153°N | 103.081°W |
| 2,600.00 | 7.83 | 97.79 | 2,464.33 | -35.40 -35.24 | 257.74 | 785,625.52 | 924,512.61 | 33.153°N | 103.081°W |
| 2,700.00 | 7.83 | 97.79 | 2,682.48 | -37.09 | 271.24 | 785,623.68 | 924,526.11 | 33.153°N | 103.081°W |
| 2,800.00 | 7.83 | 97.79 | 2,781.55 | -38.94 | 284.74 | 785,621.83 | 924,539.61 | 33.153°N | 103.081°W |
| 2,900.00 | 7.83 | 97.79 | 2,880.62 | -40.78 | 298.25 | 785,619.99 | 924,553.12 | 33.153°N | 103.081°W |
| 3,000.00 | 7.83 | 97.79 | 2,979.68 | -42.63 | 311.75 | 785,618.14 | 924,566.62 | 33.153°N | 103.081°W |
| 3,100.00 | 7.83 | 97.79 | 3,078.75 | -44.47 | 325.25 | 785,616.29 | 924,580.12 | 33.153°N | 103.081°W |
| 3,200.00 | 7.83 | 97.79 | 3,177.82 | -46.32 | 338.75 | 785,614.45 | 924,593.62 | 33.153°N | 103.081°W |
| 3,300.00 | 7.83 | 97.79 | 3,276.88 | -48.17 | 352.25 | 785,612.60 | 924,607.12 | 33.153°N | 103.081°W |
| 3,400.00 | 7.83 | 97.79 | 3,375.95 | -50.01 | 365.75 | 785,610.75 | 924,620.62 | 33.153°N | 103.081°W |
| 3,500.00 | 7.83 | 97.79 | 3,475.02 | -51.86 | 379.25 | 785,608.91 | 924,634.12 | 33.153°N | 103.081°W |
| 3,522.41 | 7.83 | 97.79 | 3,497.22 | -52.27 | 382.28 | 785,608.49 | 924,637.15 | 33.153°N | 103.081°W |
| Start Dro | p -1.00 at 352 | 22.41 MD | | | | | | | |
| 3,600.00 | 7.06 | 97.79 | 3,574.16 | -53.64 | 392.24 | 785,607.13 | 924,647.11 | 33.153°N | 103.081°W |
| 3,700.00 | 6.06 | 97.79 | 3,673.50 | -55.18 | 403.55 | 785,605.59 | 924,658.42 | 33.153°N | 103.081°W |
| 3,800.00 | 5.06 | 97.79 | 3,773.03 | -56.49 | 413.14 | 785,604.27 | 924,668.01 | 33.153°N | 103.081°W |
| 3,900.00 | 4.06 | 97.79 | 3,872.71 | -57.57 | 421.01 | 785,603.20 | 924,675.88 | 33.153°N | 103.081°W |
| 4,000.00 | 3.06 | 97.79 | 3,972.52 | -58.41 | 427.16 | 785,602.36 | 924,682.03 | 33.153°N | 103.081°W |
| 4,100.00 | 2.06 | 97.79 | 4,072.42 | -59.01 | 431.58 | 785,601.75 | 924,686.45 | 33.153°N | 103.081°W |
| 4,200.00 | 1.06 | 97.79 | 4,172.38 | -59.38 | 434.27 | 785,601.39 | 924,689.14 | 33.153°N | 103.081°W |
| 4,300.00 | 0.06 | 97.79 | 4,272.37 | -59.51 | 435.23 | 785,601.25 | 924,690.10 | 33.153°N | 103.081°W |
| 4,305.62 | 0.00 | 0.00 | 4,277.99 | -59.51 | 435.23 | 785,601.25 | 924,690.10 | 33.153°N | 103.081°W |
| Start 200 | 0.00 hold at 43 | 305.62 MD | | | | | | | |
| 4,400.00 | 0.00 | 0.00 | 4,372.37 | -59.51 | 435.23 | 785,601.25 | 924,690.10 | 33.153°N | 103.081°W |
| • | | | | | | | | | , |

Database: edmdb Company: Steward

Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Site: Salamanca State #2H
Well: Salamanca State #2H

Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| ned Survey | | | | | | | | | |
|---------------------------|-----------------|------------------|---------------------------|----------------------|------------------|---------------------------|--------------------------|----------------------|------------------------|
| leasured 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 | 4,472.37 | -59.51 | 435.23 | 785,601.25 | 924,690.10 | 33.153°N | 103.081°W |
| 4,505.62 | 0.00 | 0.00 | 4,477.99 | -59.51 | 435.23 | 785,601.25 | 924,690.10 | 33.153°N | 103.081°W |
| Start Buil | ld 8.00 at 450 | 5.62 MD | | | | | | | |
| 4,600.00 | 7.55 | 359.06 | 4,572.10 | -53.30 | 435.13 | 785,607.46 | 924,690.00 | 33.153°N | 103.081°W |
| 4,700.00 | 15.55 | 359.06 | 4,670.00 | -33.30 | 434.80 | 785,627.47 | 924,689.67 | 33.153°N | 103.081°V |
| 4,800.00 | 23.55 | 359.06 | 4,764.15 | 0.13 | 434.25 | 785,660.90 | 924,689.12 | 33.153°N | 103.081°V |
| 4,900.00 | 31.55 | 359.06 | 4,852.74 | 46.34 | 433.50 432.54 | 785,707.11 | 924,688.37 | 33.154°N | 103.081°V |
| 5,000.00 5,100.00 | 39.55 47.55 | 359.06 359.06 | 4,934.04 5,006.45 | 104.43 173.26 | 432.54 | 785,765.20 785,834.03 | 924,687.41 924,686.28 | 33.154°N 33.154°N | 103.081°V 103.081°V |
| 5,200.00 | 55.55 | 359.06 | 5,068.59 | 251.50 | 430.13 | 785,912.27 | 924,685.00 | 33.154°N | 103.081°V |
| 5,255.62 | 60.00 | 359.06 | 5,098.24 | 298.54 | 429.36 | 785,959.30 | 924,684.23 | 33.154°N | 103.081°V |
| | .00 hold at 52 | | 0,000.2 | 200.01 | .20.00 | 7.00,000.00 | 02 1,00 1.20 | 00.10111 | |
| 5,300.00 | 60.00 | 359.06 | 5,120.43 | 336.97 | 428.73 | 785,997.73 | 924,683.60 | 33.154°N | 103.081°V |
| 5,400.00 | 60.00 | 359.06 | 5,170.43 | 423.56 | 427.31 | 786,084.33 | 924,682.18 | 33.155°N | 103.081°V |
| 5,500.00 | 60.00 | 359.06 | 5,220.43 | 510.15 | 425.89 | 786,170.92 | 924,680.76 | 33.155°N | 103.081°V |
| 5,505.62 | 60.00 | 359.06 | 5,223.24 | 515.01 | 425.81 | 786,175.78 | 924,680.68 | 33.155°N | 103.081°V |
| Start DLS | 10.00 TFO 0 | .00 at 5505.62 | 2 MD | | | | | | |
| 5,600.00 | 69.44 | 359.06 | 5,263.50 | 600.25 | 424.41 | 786,261.02 | 924,679.28 | 33.155°N | 103.081°V |
| 5,700.00 | 79.44 | 359.06 | 5,290.29 | 696.45 | 422.83 | 786,357.21 | 924,677.70 | 33.155°N | 103.081°\ |
| 5,800.00 | 89.44 | 359.06 | 5,299.97 | 795.84 | 421.20 | 786,456.60 | 924,676.07 | 33.156°N | 103.081°\ |
| 5,805.62 | 90.00 | 359.06 | 5,300.00 | 801.45 | 421.11 | 786,462.22 | 924,675.98 | 33.156°N | 103.081°\ |
| Start 510 | 4.12 hold at 5 | 805.62 MD | | | | | | | |
| 5,900.00 | 90.00 | 359.06 | 5,300.00 | 895.82 | 419.56 | 786,556.59 | 924,674.43 | 33.156°N | 103.081°\ |
| 6,000.00 | 90.00 | 359.06 | 5,300.00 | 995.81 | 417.92 | 786,656.58 | 924,672.78 | 33.156°N | 103.081°\ |
| 6,100.00 | 90.00 | 359.06 | 5,300.00 | 1,095.80 | 416.27 | 786,756.56 | 924,671.14 | 33.156°N | 103.081°\ |
| 6,200.00 | 90.00 | 359.06 | 5,300.00 | 1,195.78 | 414.63 | 786,856.55 | 924,669.50 | 33.157°N | 103.081° |
| 6,300.00 | 90.00 | 359.06 | 5,300.00 | 1,295.77 | 412.99 | 786,956.54 | 924,667.86 | 33.157°N | 103.081° |
| 6,400.00 | 90.00 | 359.06 | 5,300.00 | 1,395.76 | 411.35 | 787,056.52 | 924,666.22 | 33.157°N | 103.081° |
| 6,500.00 | 90.00 | 359.06 | 5,300.00 | 1,495.74 | 409.71 | 787,156.51 | 924,664.58 | 33.158°N | 103.081°¹ |
| 6,600.00 | 90.00 | 359.06 | 5,300.00 | 1,595.73 | 408.07 406.43 | 787,256.49 | 924,662.94 | 33.158°N | 103.081°¹ |
| 6,700.00 6,800.00 | 90.00 90.00 | 359.06 359.06 | 5,300.00 5,300.00 | 1,695.72 1,795.70 | 404.78 | 787,356.48 787,456.47 | 924,661.30 924,659.65 | 33.158°N 33.158°N | 103.081°¹ 103.081°¹ |
| 6,900.00 | 90.00 | 359.06 | 5,300.00 | 1,895.69 | 404.76 | 787,556.45 | 924,658.01 | 33.159°N | 103.081° |
| 7,000.00 | 90.00 | 359.06 | 5,300.00 | 1,995.68 | 401.50 | 787,656.44 | 924,656.37 | 33.159°N | 103.081° |
| 7,100.00 | 90.00 | 359.06 | 5,300.00 | 2,095.66 | 399.86 | 787,756.43 | 924,654.73 | 33.159°N | 103.081°¹ |
| 7,200.00 | 90.00 | 359.06 | 5,300.00 | 2,195.65 | 398.22 | 787,856.41 | 924,653.09 | 33.159°N | 103.081° |
| 7,300.00 | 90.00 | 359.06 | 5,300.00 | 2,295.64 | 396.58 | 787,956.40 | 924,651.45 | 33.160°N | 103.081° |
| 7,400.00 | 90.00 | 359.06 | 5,300.00 | 2,395.62 | 394.94 | 788,056.38 | 924,649.81 | 33.160°N | 103.081° |
| 7,500.00 | 90.00 | 359.06 | 5,300.00 | 2,495.61 | 393.30 | 788,156.37 | 924,648.17 | 33.160°N | 103.081° |
| 7,600.00 | 90.00 | 359.06 | 5,300.00 | 2,595.60 | 391.65 | 788,256.36 | 924,646.52 | 33.161°N | 103.081° |
| 7,700.00 | 90.00 | 359.06 | 5,300.00 | 2,695.58 | 390.01 | 788,356.34 | 924,644.88 | 33.161°N | 103.081° |
| 7,800.00 | 90.00 | 359.06 | 5,300.00 | 2,795.57 | 388.37 | 788,456.33 | 924,643.24 | 33.161°N | 103.081° |
| 7,900.00 | 90.00 | 359.06 | 5,300.00 | 2,895.55 | 386.73 | 788,556.32 | 924,641.60 | 33.161°N | 103.081°\ |
| 8,000.00 | 90.00 | 359.06 | 5,300.00 | 2,995.54 | 385.09 | 788,656.30 | 924,639.96 | 33.162°N | 103.081°\ |
| 8,100.00 | 90.00 | 359.06 | 5,300.00 | 3,095.53 | 383.45 | 788,756.29 | 924,638.32 | 33.162°N | 103.081°\ |
| 8,200.00 | 90.00 | 359.06 | 5,300.00 | 3,195.51 | 381.81 | 788,856.28 | 924,636.68 | 33.162°N | 103.081°\ |
| 8,300.00 | 90.00 | 359.06 | 5,300.00 | 3,295.50 | 380.16 | 788,956.26 | 924,635.03 | 33.163°N | 103.081°\ |
| 8,400.00 | 90.00 | 359.06 | 5,300.00 | 3,395.49 | 378.52 | 789,056.25 | 924,633.39 | 33.163°N | 103.081° |
| 8,500.00 | 90.00 | 359.06 | 5,300.00 | 3,495.47 | 376.88 | 789,156.23 | 924,631.75 | 33.163°N | 103.081° |
| 8,600.00 | 90.00 | 359.06 | 5,300.00 | 3,595.46 | 375.24 | 789,256.22 | 924,630.11 | 33.163°N | 103.081°¹ |
| 8,700.00 | 90.00 | 359.06 | 5,300.00 | 3,695.45 | 373.60 | 789,356.21 | 924,628.47 | 33.164°N | 103.081°\ |
| 8,800.00 | 90.00 | 359.06 359.06 | 5,300.00 5,300.00 | 3,795.43 3,895.42 | 371.96 370.32 | 789,456.19 789,556.18 | 924,626.83 924,625.19 | 33.164°N 33.164°N | 103.081°\ 103.081°\ |
| 8,900.00 | 90.00 | | | | | | | | |

Database: Company: edmdb

Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone Site: Salamanca State #2H

Well: Salamanca State #2H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| 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 | 4,095.39 | 367.03 | 789,756.15 | 924,621.90 | 33.165°N | 103.081°W |
| 9,200.00 | 90.00 | 359.06 | 5,300.00 | 4,195.38 | 365.39 | 789,856.14 | 924,620.26 | 33.165°N | 103.081°W |
| 9,300.00 | 90.00 | 359.06 | 5,300.00 | 4,295.37 | 363.75 | 789,956.13 | 924,618.62 | 33.165°N | 103.081°W |
| 9,400.00 | 90.00 | 359.06 | 5,300.00 | 4,395.35 | 362.11 | 790,056.11 | 924,616.98 | 33.166°N | 103.081°W |
| 9,500.00 | 90.00 | 359.06 | 5,300.00 | 4,495.34 | 360.47 | 790,156.10 | 924,615.34 | 33.166°N | 103.081°W |
| 9,600.00 | 90.00 | 359.06 | 5,300.00 | 4,595.33 | 358.83 | 790,256.08 | 924,613.70 | 33.166°N | 103.081°W |
| 9,700.00 | 90.00 | 359.06 | 5,300.00 | 4,695.31 | 357.19 | 790,356.07 | 924,612.06 | 33.166°N | 103.081°W |
| 9,800.00 | 90.00 | 359.06 | 5,300.00 | 4,795.30 | 355.54 | 790,456.06 | 924,610.41 | 33.167°N | 103.081°W |
| 9,900.00 | 90.00 | 359.06 | 5,300.00 | 4,895.29 | 353.90 | 790,556.04 | 924,608.77 | 33.167°N | 103.081°W |
| 10,000.00 | 90.00 | 359.06 | 5,300.00 | 4,995.27 | 352.26 | 790,656.03 | 924,607.13 | 33.167°N | 103.081°W |
| 10,100.00 | 90.00 | 359.06 | 5,300.00 | 5,095.26 | 350.62 | 790,756.02 | 924,605.49 | 33.167°N | 103.081°W |
| 10,200.00 | 90.00 | 359.06 | 5,300.00 | 5,195.24 | 348.98 | 790,856.00 | 924,603.85 | 33.168°N | 103.081°W |
| 10,300.00 | 90.00 | 359.06 | 5,300.00 | 5,295.23 | 347.34 | 790,955.99 | 924,602.21 | 33.168°N | 103.081°W |
| 10,400.00 | 90.00 | 359.06 | 5,300.00 | 5,395.22 | 345.70 | 791,055.97 | 924,600.57 | 33.168°N | 103.081°W |
| 10,500.00 | 90.00 | 359.06 | 5,300.00 | 5,495.20 | 344.06 | 791,155.96 | 924,598.93 | 33.169°N | 103.081°W |
| 10,600.00 | 90.00 | 359.06 | 5,300.00 | 5,595.19 | 342.41 | 791,255.95 | 924,597.28 | 33.169°N | 103.081°W |
| 10,700.00 | 90.00 | 359.06 | 5,300.00 | 5,695.18 | 340.77 | 791,355.93 | 924,595.64 | 33.169°N | 103.081°W |
| 10,800.00 | 90.00 | 359.06 | 5,300.00 | 5,795.16 | 339.13 | 791,455.92 | 924,594.00 | 33.169°N | 103.081°W |
| 10,900.00 | 90.00 | 359.06 | 5,300.00 | 5,895.15 | 337.49 | 791,555.91 | 924,592.36 | 33.170°N | 103.081°W |
| 10,909.73 | 90.00 | 359.06 | 5,300.00 | 5,904.88 | 337.33 | 791,565.64 | 924,592.20 | 33.170°N | 103.081°W |
| TD at 109 | 909.73 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 #2H - plan hits target ce - Point | 0.00 enter | 0.00 | 0.00 | 0.00 | 0.00 | 785,660.77 | 924,254.87 | 33.153°N | 103.082°W |
| FTP ST #2H - plan misses targe - Point | 0.00 et center by 0.01 | 0.00 Ift at 5805.6 | 5,300.00 1ft MD (5300 | 801.45 .00 TVD, 801 | 421.10 .45 N, 421.11 I | 786,462.22 ≣) | 924,675.97 | 33.156°N | 103.081°W |
| LTP/PBHL ST #2H - plan hits target ce - Point | 0.00 enter | 0.00 | 5,300.00 | 5,904.88 | 337.33 | 791,565.64 | 924,592.20 | 33.170°N | 103.081°W |

| Casing Points | | | | | |
|---------------|-------------------|-------------------|------|--------------------|------------------|
| | Measured Depth | Vertical Depth | | Casing Diameter | Hole Diameter |
| | (ft) | (ft) | Name | (in) | (in) |
| | 2,263.45 | 2,250.00 9 5/8" | | 9.625 | 12.250 |

Database: edmdb

Site:

Company: Steward Energy II, LLC

Project: Lea County, NM (NAD 83) NM East Zone

Salamanca State #2H

Well: Salamanca State #2H
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well Salamanca State #2H

GL 3810 + RKB 19 @ 3829.00ft (Norton 8) GL 3810 + RKB 19 @ 3829.00ft (Norton 8)

Grid

| Plan Annotations | | | | | |
|------------------|-----|---------------|---------------|---------------|--|
| Measure | d | Vertical | Local Coord | | |
| Depth (ft) | | Depth (ft) | +N/-S (ft) | +E/-W (ft) | Comment |
| 300 | .00 | 300.00 | 0.00 | 0.00 | Start Build 1.00 at 300 MD |
| 1,083 | .20 | 1,080.77 | -7.24 | 52.95 | Start 2439.21 hold at 1083.20 MD |
| 3,522 | .41 | 3,497.22 | -52.27 | 382.28 | Start Drop -1.00 at 3522.41 MD |
| 4,305 | .62 | 4,277.99 | -59.51 | 435.23 | Start 200.00 hold at 4305.62 MD |
| 4,505 | .62 | 4,477.99 | -59.51 | 435.23 | Start Build 8.00 at 4505.62 MD |
| 5,255 | .62 | 5,098.24 | 298.54 | 429.36 | Start 250.00 hold at 5255.62 MD |
| 5,505 | .62 | 5,223.24 | 515.01 | 425.81 | Start DLS 10.00 TFO 0.00 at 5505.62 MD |
| 5,805 | .62 | 5,300.00 | 801.45 | 421.11 | Start 5104.12 hold at 5805.62 MD |
| 10,909 | .73 | 5,300.00 | 5,904.88 | 337.33 | TD at 10909.73 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: Stewar | d Energy II L | LC OGRID: 3 | 371682 D | ate: 6/21/2023 | | | | |
|---|----------------|-----------------------|--------------------|----------------------------|-----------|---------------------|----------|--------------------------------------|
| II. Type: ⊠ Original □ | l Amendmen | t due to □ 19.15.27 | 7.9.D(6)(a) NMA | C □ 19.15.27.9.D | (6)(b) N | NMAC □ | Other. | |
| If Other, please describe: | | | | | | | | |
| III. Well(s): Provide the be recompleted from a si | | | | | wells p | roposed to | be dri | lled or proposed to |
| Well Name | API | ULSTR | Footages | Anticipated Oil BBL/D | | icipated MCF/D | Pı | Anticipated roduced Water BBL/D |
| Salamanca State #2H | | B-34-13S-38E | 696' FNL | 500 | 100 | | 350 | |
| | | | 1864'FEL | | | | | |
| | | | | | | | | |
| IV. Central Delivery Po V. Anticipated Schedule proposed to be recomplete | e: Provide the | | | | vell or s | | | 7.9(D)(1) NMAC] sed to be drilled or |
| Well Name | API | Spud Date | TD Reached Date | Completion Commencement | | Initial I Back I | | First Production Date |
| Salamanca State #2H | | 8/1/2023 | 8/15/2023 | 9/1/2023 | | n/a (no flowback) | | 9/2/2023 |
| | | | | | | | | |
| VI. Separation Equipm | ent: ⊠ Attac | h a complete descr | iption of how Op | erator will size sep | aration | equipmer | nt to op | timize gas capture. |
| VII. Operational Pract Subsection A through F | | | cription of the ac | tions Operator wi | ll take 1 | o comply | with th | ne requirements of |
| VIII. Best Management | t Practices: | Attach a comple ∴ | ete description of | f Operator's best i | nanage | ment pract | tices to | minimize venting |

during active and planned maintenance.

Section 2 – Enhanced Plan <u>EFFECTIVE APRIL 1, 2022</u>

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. \square 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 \square | will □ will not have | capacity to gather | 100% of the anticipated | natural gas |
|---------------------------------|--------------------------------|----------------------|--------------------|-------------------------|-------------|
| production volume from the well | prior to the date of first p | production. | | | |

| XIII. Line Pressure. Operator \square does \square 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 | y the new w | ell(s). |

| ı | Ш. | Attacl | h (| Operator | 's ɒ | lan to | o manage | product | ion in | response | to t | he increase | d line | pressure |
|---|----|--------|-----|----------|------|--------|----------|---------|--------|----------|------|-------------|--------|----------|
| | | | | | | | | | | | | | | |

| XIV. Confidentiality: \square Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided | 1 ın |
|---|------|
| Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific informat | ion |
| for which confidentiality is asserted and the basis for such assertion. | |

(i)

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: power generation on lease; (a) **(b)** power generation for grid; compression on lease; (c) (d) liquids removal on lease; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; **(g)** reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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: 6/21/2023 |
| 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.