

|                                 |                                                       |                                |
|---------------------------------|-------------------------------------------------------|--------------------------------|
| Well Name: OZZY FEDERAL COM 18C | Well Location: T17S / R28E / SEC 13 / NESE /          | County or Parish/State:        |
| Well Number: 003H               | Type of Well: OIL WELL                                | Allottee or Tribe Name:        |
| Lease Number: NMNM14847         | Unit or CA Name:                                      | Unit or CA Number:             |
| US Well Number: 3001548330      | Well Status: Approved Application for Permit to Drill | Operator: LONGFELLOW ENERGY LP |

Notice of Intent

|                                                                                                           |                              |
|-----------------------------------------------------------------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent                                                                      | Type of Action Other         |
| Date Sundry Submitted: 07/09/2021                                                                         | Time Sundry Submitted: 06:34 |
| Date proposed operation will begin: 06/11/2021                                                            |                              |
| Procedure Description: Request to move SHL from 1565' S 675' E to 1590' S 765' E, all Section 13 17S 28E. |                              |

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Ozzy\_18C\_3H\_Sundry\_Attachment\_20210709063259.pdf

|                                        |                                                              |                                       |
|----------------------------------------|--------------------------------------------------------------|---------------------------------------|
| <b>Well Name:</b> OZZY FEDERAL COM 18C | <b>Well Location:</b> T17S / R28E / SEC 13 / NESE /          | <b>County or Parish/State:</b>        |
| <b>Well Number:</b> 003H               | <b>Type of Well:</b> OIL WELL                                | <b>Allottee or Tribe Name:</b>        |
| <b>Lease Number:</b> NMNM14847         | <b>Unit or CA Name:</b>                                      | <b>Unit or CA Number:</b>             |
| <b>US Well Number:</b> 3001548330      | <b>Well Status:</b> Approved Application for Permit to Drill | <b>Operator:</b> LONGFELLOW ENERGY LP |

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

|                                                  |                                         |
|--------------------------------------------------|-----------------------------------------|
| <b>Operator Electronic Signature:</b> BRIAN WOOD | <b>Signed on:</b> JUL 09, 2021 06:34 AM |
| <b>Name:</b> LONGFELLOW ENERGY LP                |                                         |
| <b>Title:</b> President                          |                                         |
| <b>Street Address:</b> 37 VERANO LOOP            |                                         |
| <b>City:</b> SANTA FE                            | <b>State:</b> NM                        |
| <b>Phone:</b> (505) 466-8120                     |                                         |
| <b>Email address:</b> AFMSS@PERMITSWEST.COM      |                                         |

Field Representative

|                             |               |             |
|-----------------------------|---------------|-------------|
| <b>Representative Name:</b> |               |             |
| <b>Street Address:</b>      |               |             |
| <b>City:</b>                | <b>State:</b> | <b>Zip:</b> |
| <b>Phone:</b>               |               |             |
| <b>Email address:</b>       |               |             |

BLM Point of Contact

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| <b>BLM POC Name:</b> CHRISTOPHER WALLS | <b>BLM POC Title:</b> Petroleum Engineer     |
| <b>BLM POC Phone:</b> 5752342234       | <b>BLM POC Email Address:</b> cwalls@blm.gov |
| <b>Disposition:</b> Approved           | <b>Disposition Date:</b> 07/12/2021          |
| <b>Signature:</b> Chris Walls          |                                              |

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                                |                                                            |                                                        |
|------------------------------------------------|------------------------------------------------------------|--------------------------------------------------------|
| <sup>1</sup> API Number<br><b>30-015-48330</b> | <sup>2</sup> Pool Code<br><b>96210</b>                     | <sup>3</sup> Pool Name<br><b>EMPIRE; GLORIETA-YESO</b> |
| <sup>4</sup> Property Code<br><b>330802</b>    | <sup>5</sup> Property Name<br><b>OZZY FEDERAL COM 18C</b>  | <sup>6</sup> Well Number<br><b>003H</b>                |
| <sup>7</sup> OGRID No.<br><b>372210</b>        | <sup>8</sup> Operator Name<br><b>LONGFELLOW ENERGY, LP</b> | <sup>9</sup> Elevation<br><b>3697.8</b>                |

| <sup>10</sup> Surface Location |           |             |             |         |               |                  |               |                |             |
|--------------------------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| UL or lot no.                  | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
| <b>I</b>                       | <b>13</b> | <b>17 S</b> | <b>28 E</b> |         | <b>1590</b>   | <b>SOUTH</b>     | <b>765</b>    | <b>EAST</b>    | <b>EDDY</b> |

| <sup>11</sup> Bottom Hole Location If Different From Surface |           |             |             |         |               |                  |               |                |             |
|--------------------------------------------------------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| UL or lot no.                                                | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
| <b>I</b>                                                     | <b>18</b> | <b>17 S</b> | <b>29 E</b> |         | <b>1540</b>   | <b>SOUTH</b>     | <b>20</b>     | <b>EAST</b>    | <b>EDDY</b> |

|                                                |                               |                                              |                         |
|------------------------------------------------|-------------------------------|----------------------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br><b>146.92</b> | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code<br><b>C</b> | <sup>15</sup> Order No. |
|------------------------------------------------|-------------------------------|----------------------------------------------|-------------------------|

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

|  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p><i>Cory Walk</i> <b>6/4/2021</b><br/>Signature Date</p> <p><b>Cory Walk</b><br/>Printed Name</p> <p><b>cory@permitswest.com</b><br/>E-mail Address</p> |
|  | <p><b><sup>18</sup> SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p><b>MAY 26, 2021</b><br/>Date of Survey</p> <p><i>William F. Jaramilla</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <b>PLS 12797</b><br/>SURVEY NO. 8391A</p>                                                                                                                                                                                                                                                   |

Intent ☐ As Drilled ☐API # 

|                              |                             |             |
|------------------------------|-----------------------------|-------------|
| Operator Name:               | Property Name:              | Well Number |
| <b>LONGFELLOW ENERGY, LP</b> | <b>OZZY FEDERAL COM 18C</b> | <b>003H</b> |

Kick Off Point (KOP)

|                               |                      |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>I</b>                | Section<br><b>13</b> | Township<br><b>17S</b> | Range<br><b>28E</b> | Lot | Feet<br><b>1590</b>             | From N/S<br><b>SOUTH</b> | Feet<br><b>765</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.8329495</b> |                      |                        |                     |     | Longitude<br><b>104.1238848</b> |                          |                    | NAD<br><b>83</b>        |                       |

First Take Point (FTP)

|                               |                      |                        |                     |                 |                                 |                          |                    |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----------------|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>I</b>                | Section<br><b>18</b> | Township<br><b>17S</b> | Range<br><b>29E</b> | Lot<br><b>3</b> | Feet<br><b>1525</b>             | From N/S<br><b>SOUTH</b> | Feet<br><b>100</b> | From E/W<br><b>WEST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.8315321</b> |                      |                        |                     |                 | Longitude<br><b>104.1210737</b> |                          |                    | NAD<br><b>83</b>        |                       |

Last Take Point (LTP)

|                               |                      |                        |                     |     |                                 |                          |                    |                         |                       |
|-------------------------------|----------------------|------------------------|---------------------|-----|---------------------------------|--------------------------|--------------------|-------------------------|-----------------------|
| UL<br><b>I</b>                | Section<br><b>18</b> | Township<br><b>17S</b> | Range<br><b>29E</b> | Lot | Feet<br><b>1540</b>             | From N/S<br><b>SOUTH</b> | Feet<br><b>100</b> | From E/W<br><b>EAST</b> | County<br><b>EDDY</b> |
| Latitude<br><b>32.8315435</b> |                      |                        |                     |     | Longitude<br><b>104.1059289</b> |                          |                    | NAD<br><b>83</b>        |                       |

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API # 

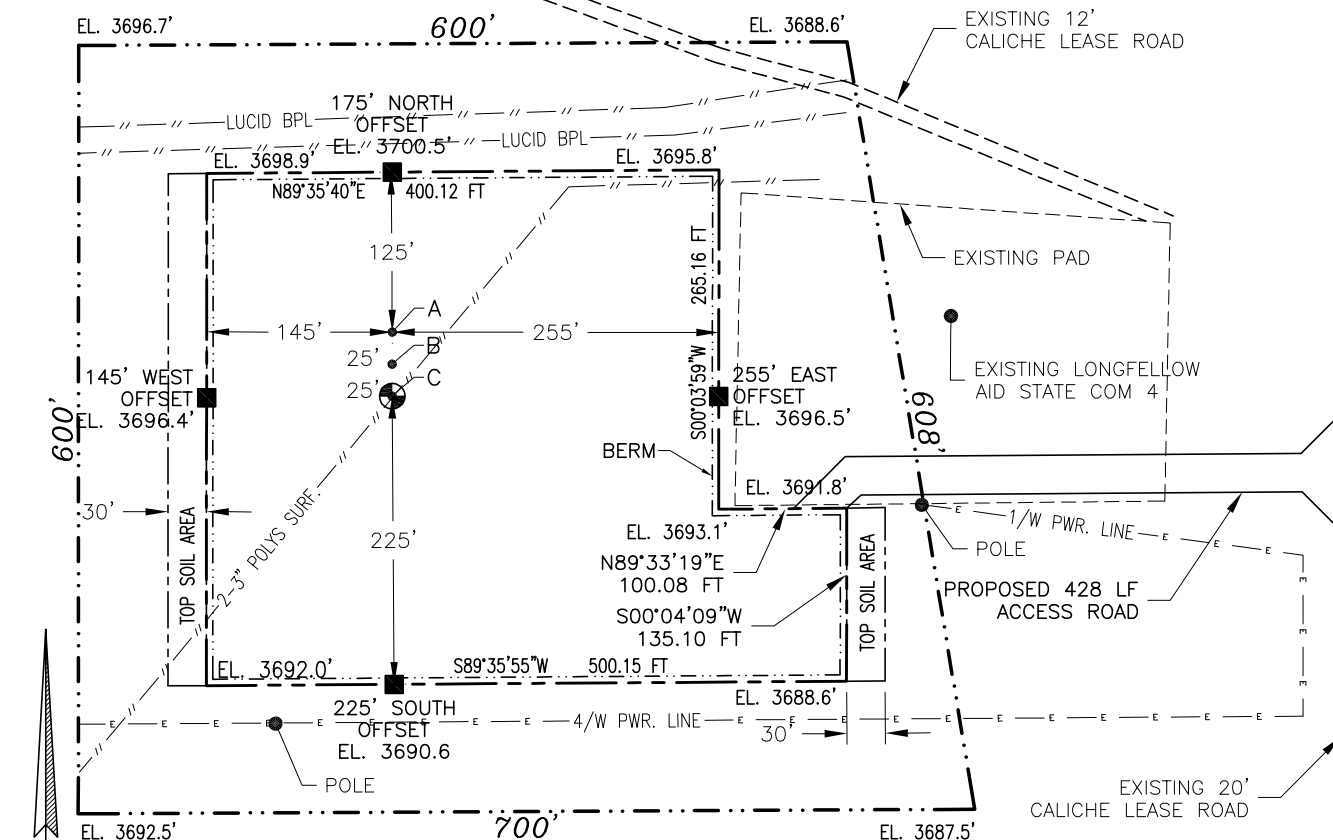
|                |                |             |
|----------------|----------------|-------------|
| Operator Name: | Property Name: | Well Number |
|                |                |             |

KZ 06/29/2018

# SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. EDDY COUNTY, STATE OF NEW MEXICO SITE MAP

NOTE: LATITUDE AND LONGITUDE COORDINATES ARE SHOWN USING THE NORTH AMERICAN DATUM OF 1983 (NAD83) LISTED NEW MEXICO STATE PLANE EAST COORDINATES ARE GRID (NAD83). BASIS OF BEARING AND DISTANCES USED ARE NEW MEXICO STATE PLANE EAST COORDINATES MODIFIED TO THE SURFACE. VERTICAL DATUM NAVD88.

SEC. 13  
SEC. 18



**OZZY FEDERAL COM 18C 003H**

ELEV. = 3697.8'

3.986± ACRES

LAT. = 32.8329495°N (NAD83)

LONG. = 104.1238848°W

NMSP EAST (FT)

N = 666823.73

E = 605670.30

- A - OZZY FEDERAL COM 18C 001H
- B - OZZY FEDERAL COM 18C 002H
- C - OZZY FEDERAL COM 18C 003H

015 75 150 300

SCALE 1" = 150'

## DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 82 AND CR. 211 (OLD LOCO ROAD) GO WEST ON STATE HIGHWAY 82 1.1 MILES, TURN RIGHT ON CALICHE ROAD GO NORTH 0.3 OF A MILE, TURN RIGHT GO NORTH-NORTHEAST 0.31 OF A MILE, TURN LEFT GO NORTHWEST 0.71 OF A MILE, TURN RIGHT GO NORTH 0.60 OF A MILE, TURN LEFT TO PROPOSED ACCESS ROAD FOLLOW FLAGS WEST ABOUT 20' NORTH OF EXISTING SOUTH EDGE OF PAD 428' TO THE PROPOSED PAD FOR THIS LOCATION.

I, FILMON F. JARAMILLO, NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I CREATED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY WAS MADE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT IT MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, 1274

**MADROGA SURVEYING, INC.**

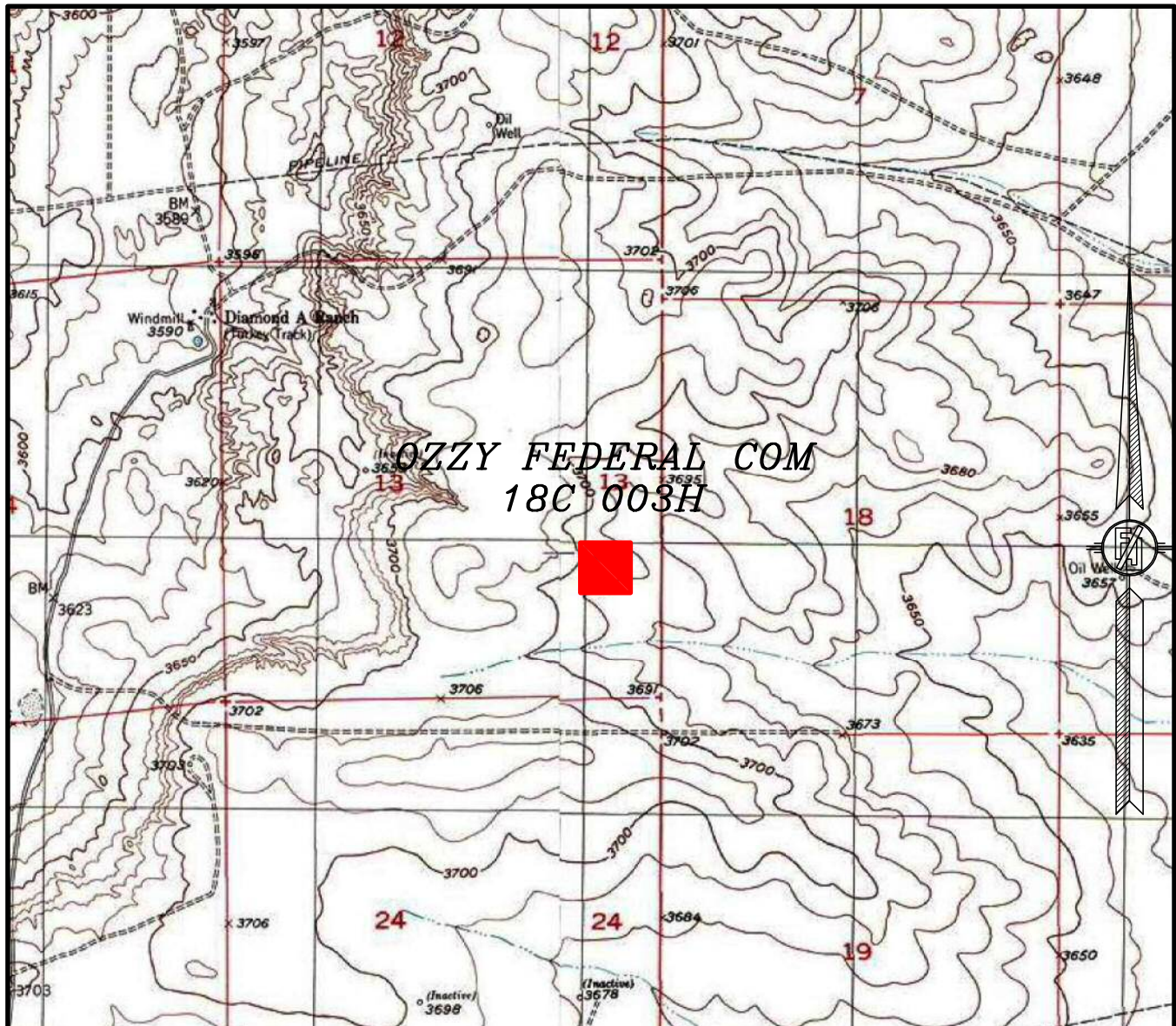
301 SOUTH CANAL  
(575) 234-3341

**CARLSBAD, NEW MEXICO**

MAY 26, 2021

SURVEY NO. 8391A

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 LOCATION VERIFICATION MAP



USGS QUAD MAP:  
 RED LAKE

NOT TO SCALE

LONGFELLOW ENERGY, LP  
**OZZY FEDERAL COM 18C 003H**  
 LOCATED 1590 FT. FROM THE SOUTH LINE  
 AND 765 FT. FROM THE EAST LINE OF  
 SECTION 13, TOWNSHIP 17 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

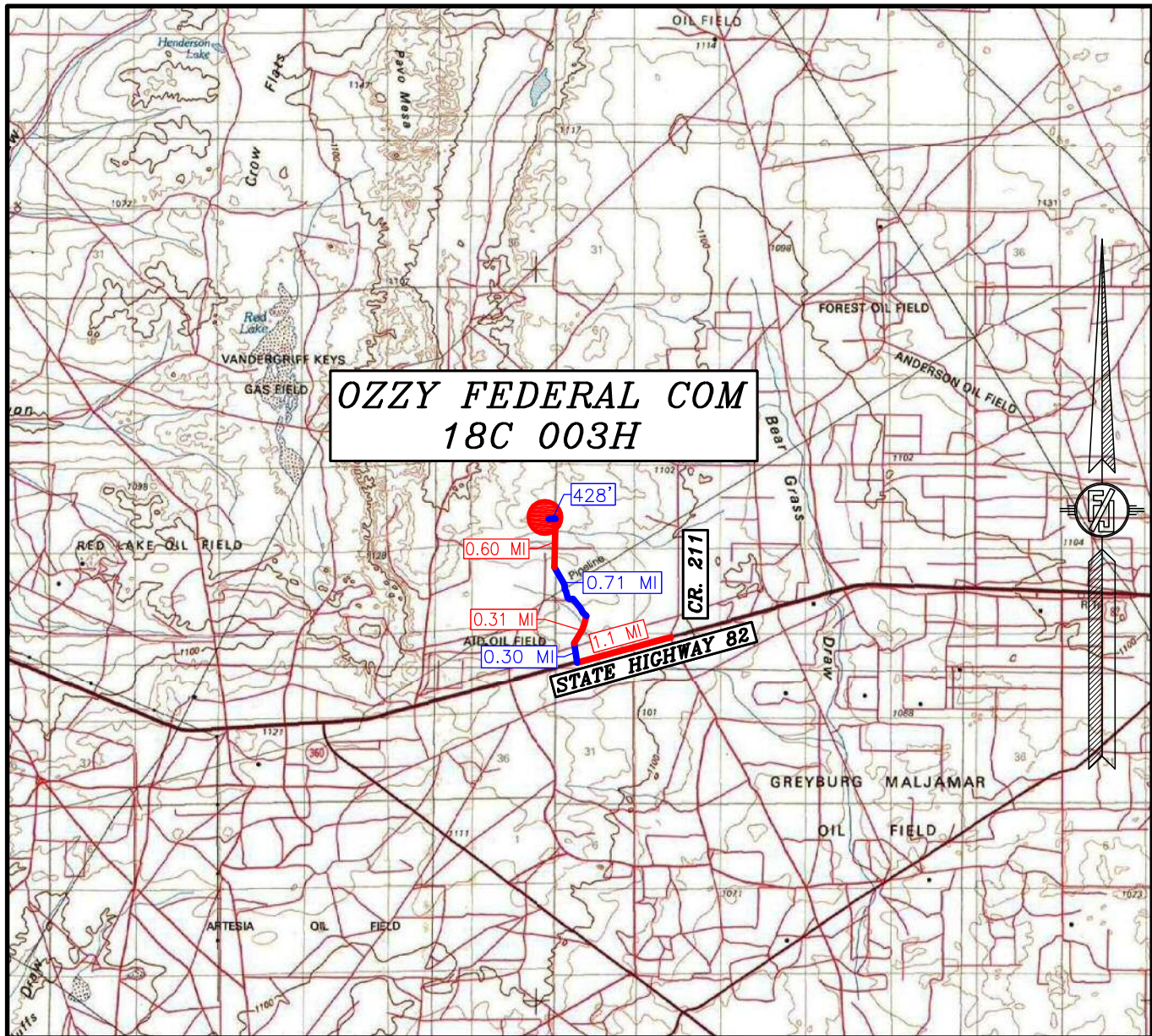
MAY 26, 2021

SURVEY NO. 8391A

MADRON SURVEYING, INC. 301 SOUTH CANAL  
 (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO  
VICINITY MAP



DISTANCES IN MILES

NOT TO SCALE

LONGFELLOW ENERGY, LP  
**OZZY FEDERAL COM 18C 003H**  
LOCATED 1590 FT. FROM THE SOUTH LINE  
AND 765 FT. FROM THE EAST LINE OF  
SECTION 13, TOWNSHIP 17 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

**DIRECTIONS TO LOCATION**

FROM THE INTERSECTION OF STATE HIGHWAY 82 AND CR. 211 (OLD LOCO ROAD) GO WEST ON STATE HIGHWAY 82 1.1 MILES, TURN RIGHT ON CALICHE ROAD GO NORTH 0.3 OF A MILE, TURN RIGHT GO NORTH-NORTHEAST 0.31 OF A MILE, TURN LEFT GO NORTHWEST 0.71 OF A MILE, TURN RIGHT GO NORTH 0.60 OF A MILE, TURN LEFT TO PROPOSED ACCESS ROAD FOLLOW FLAGS WEST ABOUT 20' NORTH OF EXISTING SOUTH EDGE OF PAD 428' TO THE PROPOSED PAD FOR THIS LOCATION.

MAY 26, 2021

MADRON SURVEYING, INC.

301 SOUTH CANAL  
(575) 234-3341

SURVEY NO. 8391A  
CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 AERIAL PHOTO



NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH  
 DECEMBER 2019

LONGFELLOW ENERGY, LP  
**OZZY FEDERAL COM 18C 003H**  
 LOCATED 1590 FT. FROM THE SOUTH LINE  
 AND 765 FT. FROM THE EAST LINE OF  
 SECTION 13, TOWNSHIP 17 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

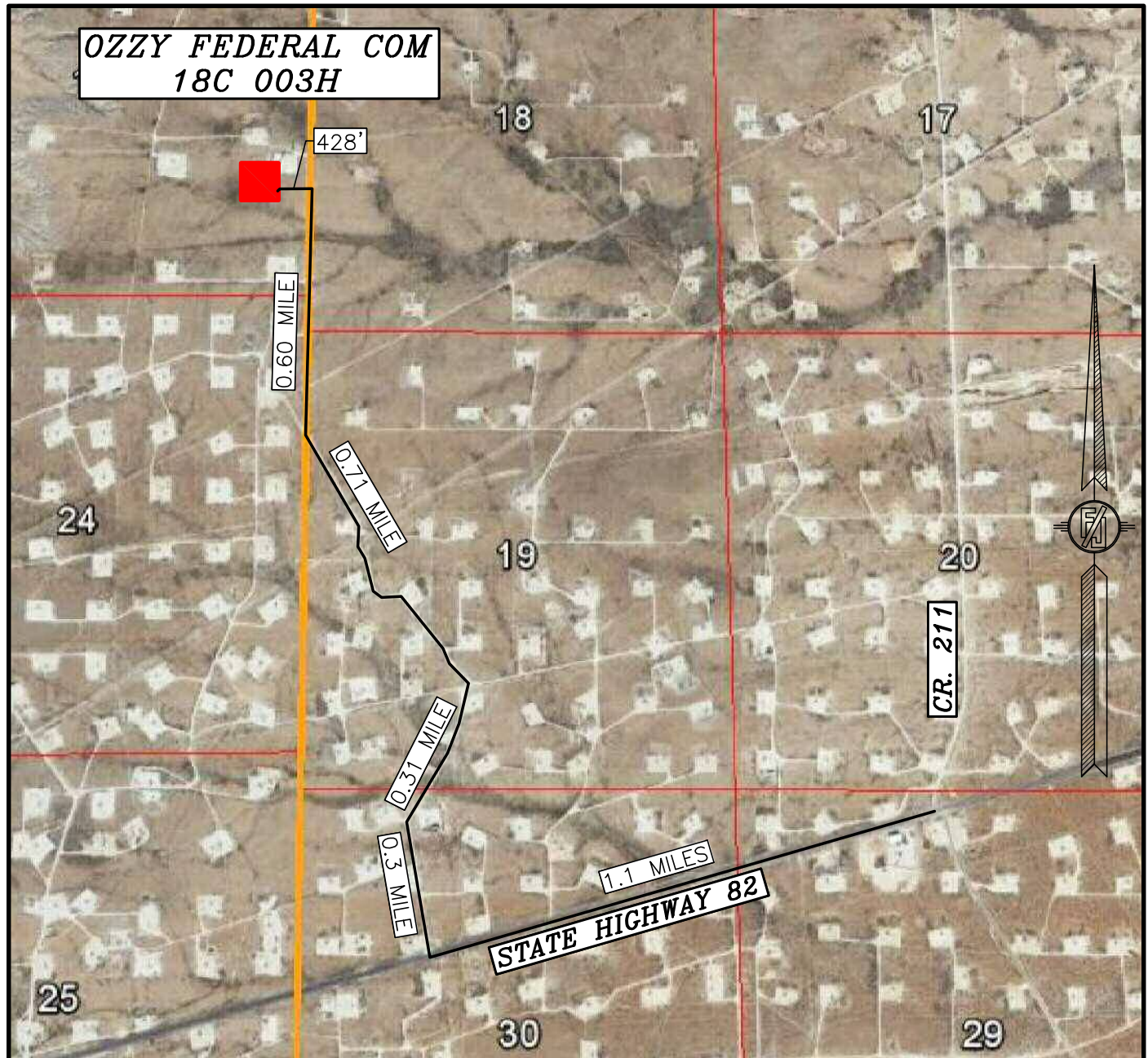
MAY 26, 2021

SURVEY NO. 8391A

MADRON SURVEYING, INC. 301 SOUTH CANAL  
 (575) 234-3341

CARLSBAD, NEW MEXICO

SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO  
 ACCESS AERIAL ROUTE MAP



NOT TO SCALE  
 AERIAL PHOTO:  
 GOOGLE EARTH  
 DECEMBER 2019

LONGFELLOW ENERGY, LP  
**OZZY FEDERAL COM 18C 003H**  
 LOCATED 1590 FT. FROM THE SOUTH LINE  
 AND 765 FT. FROM THE EAST LINE OF  
 SECTION 13, TOWNSHIP 17 SOUTH,  
 RANGE 28 EAST, N.M.P.M.  
 EDDY COUNTY, STATE OF NEW MEXICO

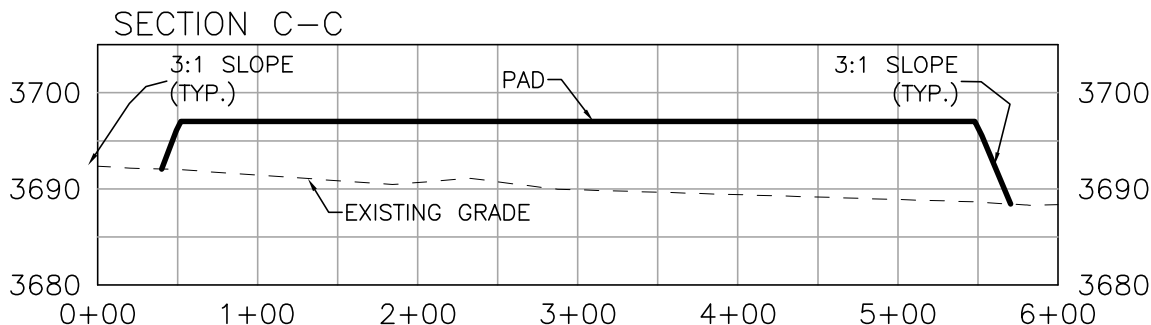
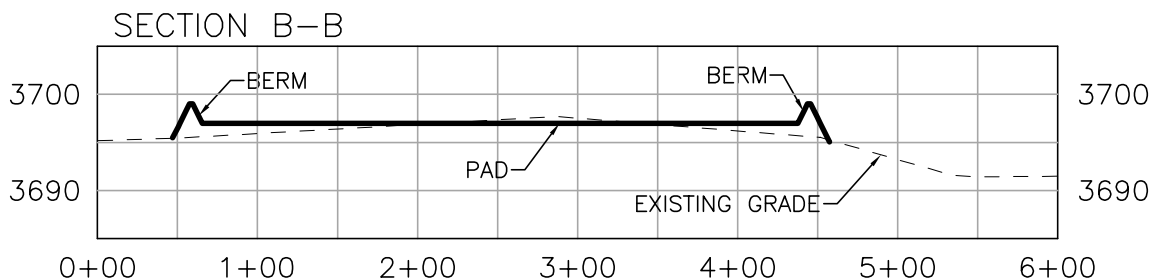
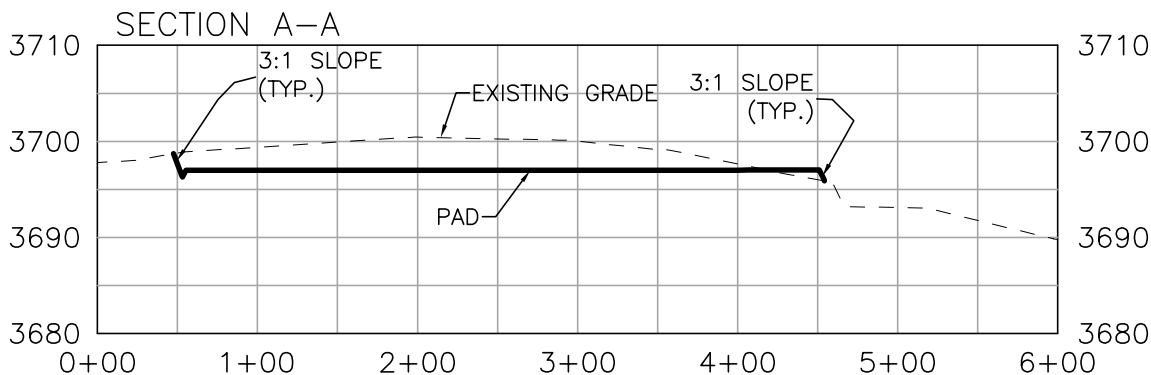
MAY 26, 2021

SURVEY NO. 8391A

MADRON SURVEYING, INC. 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341



# CROSS-SECTIONS



I, FILIMON F. JARAMILLO, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

LONGFELLOW ENERGY, LP  
GRADING PLAN AND CROSS SECTIONS  
FOR OZZY FEDERAL COM 18C 003H  
SECTION 13, TOWNSHIP 17 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

012 60 120 240  
SCALE 1" = 120' - 1" = 20' VER

| CUT         | FILL         | NET                 |
|-------------|--------------|---------------------|
| 4593 CU. YD | 17227 CU. YD | 12634 CU. YD (FILL) |

EARTHWORK QUANTITIES ARE ESTIMATED

MAY 26, 2021

301 SOUTH CANAL  
(575) 234-3341

MADRON SURVEYING, INC. CARLSBAD, NEW MEXICO

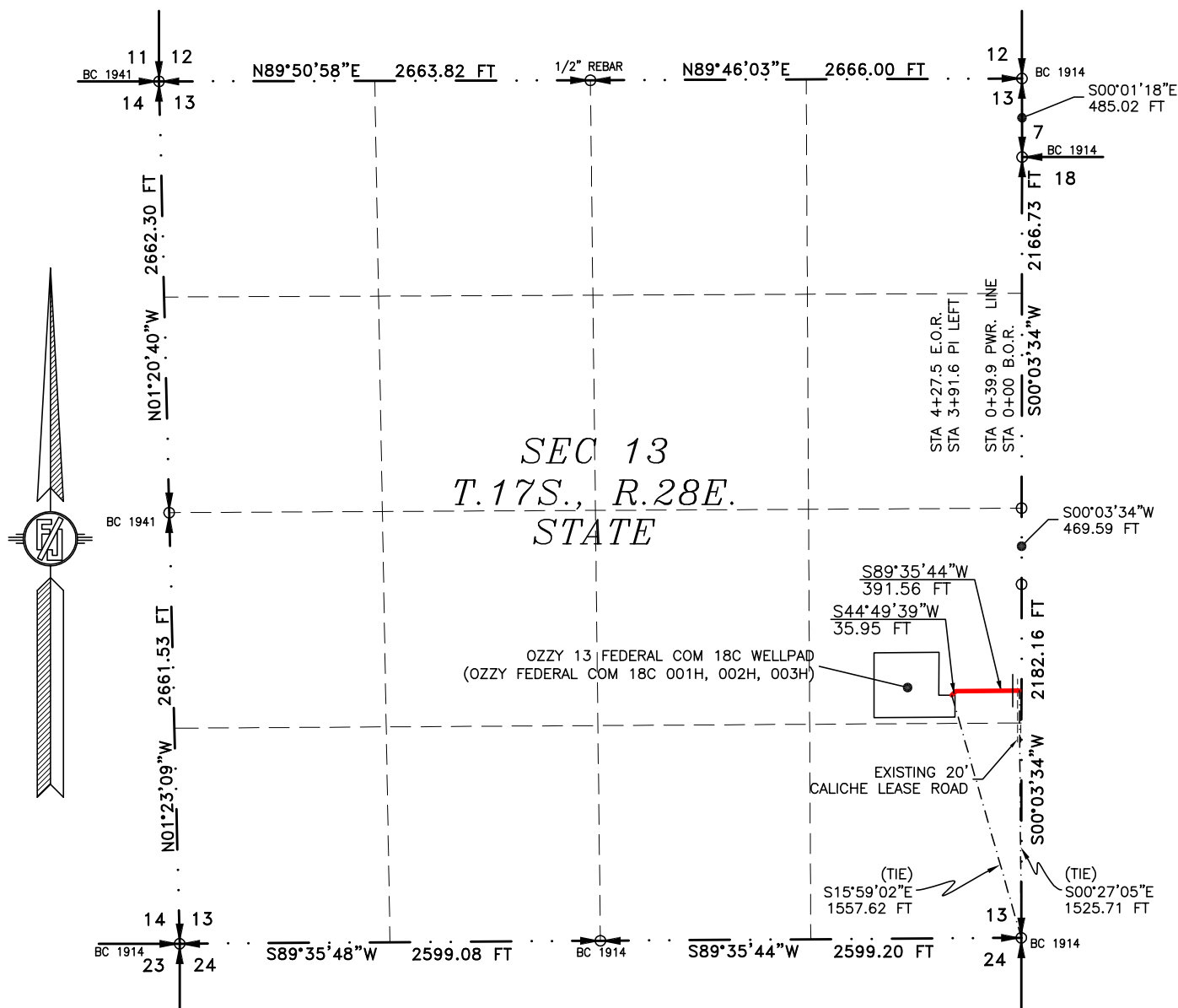
SHEET 2-2  
SURVEY NO. 8391A



**ACCESS ROAD PLAT**

ACCESS ROAD TO OZZY 13 FEDERAL COM 18C WELLPAD (OZZY FEDERAL COM 18C 001H, 002H, 003H)

**LONGFELLOW ENERGY, LP**  
**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING**  
**SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.**  
**EDDY COUNTY, STATE OF NEW MEXICO**  
**MAY 26, 2021**



SEE NEXT SHEET (2-2) FOR DESCRIPTION

**GENERAL NOTES**

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 26 DAY OF MAY 2021

FILIMON F. JARAMILLO, PLS. 12797  
 NEW MEXICO PROFESSIONAL SURVEYOR

MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

**SURVEY NO. 8391A****SHEET: 1-2**

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO  
 (575) 234-3341

**ACCESS ROAD PLAT**

ACCESS ROAD TO OZZY 13 FEDERAL COM 18C WELLPAD (OZZY FEDERAL COM 18C 001H, 002H, 003H)

**LONGFELLOW ENERGY, LP**  
**CENTERLINE SURVEY OF AN ACCESS ROAD CROSSING**  
**SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.**  
**EDDY COUNTY, STATE OF NEW MEXICO**  
**MAY 26, 2021**

**DESCRIPTION**

A STRIP OF LAND 30 FEET WIDE CROSSING STATE OF NEW MEXICO LAND IN SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M., EDDY COUNTY, STATE OF NEW MEXICO AND BEING 15 FEET EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY:

BEGINNING AT A POINT WITHIN THE NE/4 SE/4 OF SAID SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M., WHENCE THE SOUTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S00°27'05"E, A DISTANCE OF 1525.71 FEET;

THENCE S89°35'44"W A DISTANCE OF 391.56 FEET TO AN ANGLE POINT OF THE LINE HEREIN DESCRIBED;

THENCE S44°49'39"W A DISTANCE OF 35.95 FEET THE TERMINUS OF THIS CENTERLINE SURVEY, WHENCE THE SOUTHEAST CORNER OF SAID SECTION 13, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M. BEARS S15°59'02"E, A DISTANCE OF 1557.62 FEET;

SAID STRIP OF LAND BEING 427.51 FEET OR 25.91 RODS IN LENGTH, CONTAINING 0.294 ACRES MORE OR LESS AND BEING ALLOCATED BY FORTIES AS FOLLOWS:

NE/4 SE/4 427.51 L.F. 25.91 RODS 0.294 ACRES

**GENERAL NOTES**

1.) THE INTENT OF THIS ROUTE SURVEY IS TO ACQUIRE AN EASEMENT.

2.) BASIS OF BEARING AND DISTANCE IS NMSP EAST (NAD83) MODIFIED TO SURFACE COORDINATES. NAD 83 (FEET) AND NAVD 88 (FEET) COORDINATE SYSTEMS USED IN THE SURVEY.

**SHEET: 2-2**

**MADRON SURVEYING, INC.** 301 SOUTH CANAL CARLSBAD, NEW MEXICO (575) 234-3341

**SURVEYOR CERTIFICATE**

I, FILIMON F. JARAMILLO, A NEW MEXICO PROFESSIONAL SURVEYOR NO. 12797, HEREBY CERTIFY THAT I HAVE CONDUCTED AND AM RESPONSIBLE FOR THIS SURVEY, THAT THIS SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND THAT THIS SURVEY AND PLAT MEET THE MINIMUM STANDARDS FOR LAND SURVEYING IN THE STATE OF NEW MEXICO.

IN WITNESS WHEREOF, THIS CERTIFICATE IS EXECUTED AT CARLSBAD,

NEW MEXICO, THIS 26<sup>TH</sup> DAY OF MAY 2021

*[Signature]*  
 FILIMON F. JARAMILLO, PLS. 12797

MADRON SURVEYING, INC.  
 301 SOUTH CANAL  
 CARLSBAD, NEW MEXICO 88220  
 Phone (575) 234-3341

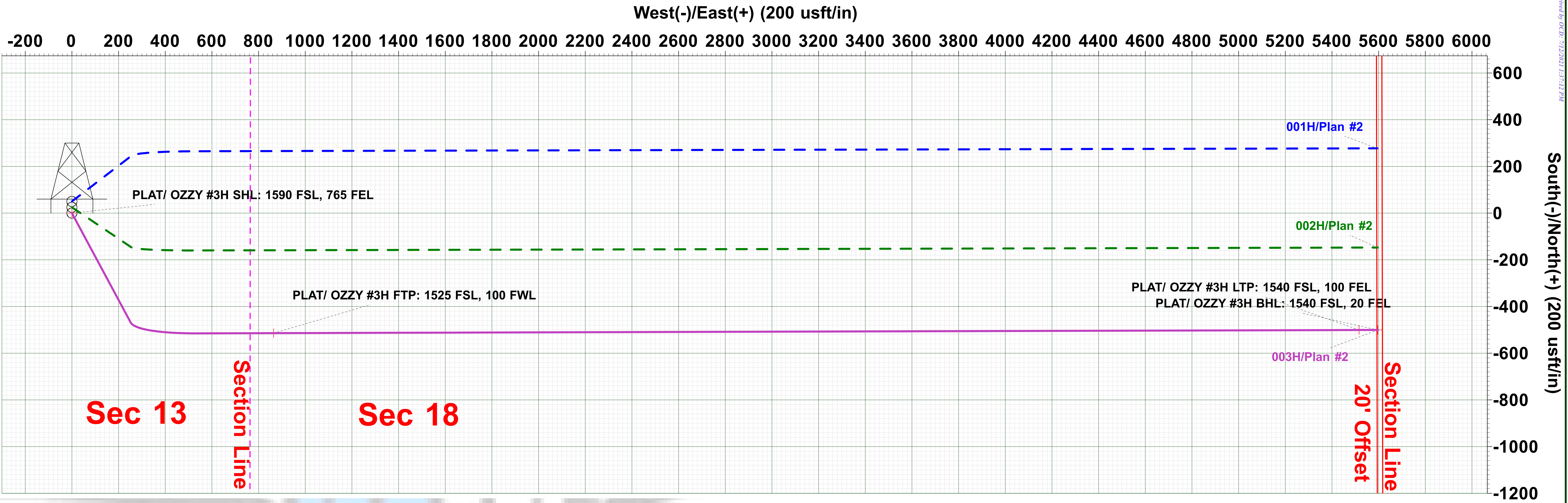
**SURVEY NO. 8391A**



Company: Longfellow Energy  
Project: Eddy Co., NM (Nad-83)  
Site: OZZY FED COM 18C  
Well: 003H  
Wellbore: Wellbore #1  
Rig:  
Design: Plan #2 / 19:51, June 03 2021



| DESIGN TARGET DETAILS                 |         |         |         |           |           |           |             |
|---------------------------------------|---------|---------|---------|-----------|-----------|-----------|-------------|
| Name                                  | TVD     | +N/-S   | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |
| PLAT/ OZZY #3H SHL: 1590 FSL, 765 FEL | 0.00    | 0.00    | 0.00    | 666823.73 | 605670.30 | 32.832950 | -104.123885 |
| PLAT/ OZZY #3H BHL: 1540 FSL, 20 FEL  | 4070.00 | -500.31 | 5596.32 | 666323.42 | 611266.62 | 32.831543 | -104.105668 |
| PLAT/ OZZY #3H FTP: 1525 FSL, 100 FWL | 4070.00 | -513.96 | 864.48  | 666309.77 | 606534.78 | 32.831532 | -104.121074 |
| PLAT/ OZZY #3H LTP: 1540 FSL, 100 FEL | 4070.00 | -500.13 | 5516.33 | 666323.60 | 611186.63 | 32.831544 | -104.105929 |



PLAT/ OZZY #3H SHL: 1590 FSL, 765 FEL

Start Build 2.00

YATES

QUEEN

SAN ANDRES

Start DLS 10.00 TFO -67.729

GLORIETA

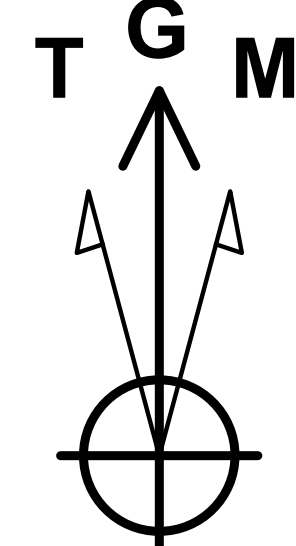
PADDOCK

BLINBERRY

PLAT/ OZZY #3H FTP: 1525 FSL, 100 FWL

Vertical Section at 89.83° (200 usft/in)

| WELL DETAILS: 003H               |         |           |           |           |             |         |       |         |
|----------------------------------|---------|-----------|-----------|-----------|-------------|---------|-------|---------|
| EST RKB @ 3714.80usft<br>3697.80 |         |           |           |           |             |         |       |         |
| +N/-S                            | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |         |       |         |
| 0.00                             | 0.00    | 666823.73 | 605670.30 | 32.832950 | -104.123885 |         |       |         |
| SECTION DETAILS                  |         |           |           |           |             |         |       |         |
| Sec                              | MD      | Inc       | Azi       | TVD       | +N/-S       | +E/-W   | Dleg  | VSect   |
| 1                                | 0.00    | 0.00      | 0.00      | 0.00      | 0.00        | 0.00    | 0.00  | 0.00    |
| 2                                | 300.00  | 0.00      | 0.00      | 300.00    | 0.00        | 0.00    | 0.00  | 0.00    |
| 3                                | 810.81  | 10.22     | 151.73    | 808.10    | -40.00      | 21.51   | 2.00  | 21.39   |
| 4                                | 3553.53 | 10.22     | 151.73    | 3507.34   | -468.43     | 251.93  | 0.00  | 250.54  |
| 5                                | 4109.90 | 60.00     | 89.83     | 3956.03   | -514.89     | 539.14  | 10.00 | 537.61  |
| 6                                | 4209.90 | 60.00     | 89.83     | 4006.03   | -514.64     | 625.75  | 0.00  | 624.22  |
| 7                                | 4459.90 | 90.00     | 89.83     | 4070.00   | -513.96     | 864.48  | 12.00 | 862.95  |
| 8                                | 9111.77 | 90.00     | 89.83     | 4070.00   | -500.54     | 5516.33 | 0.00  | 5514.82 |
| 9                                | 9191.76 | 90.00     | 89.83     | 4070.00   | -500.31     | 5596.32 | 0.00  | 5594.81 |

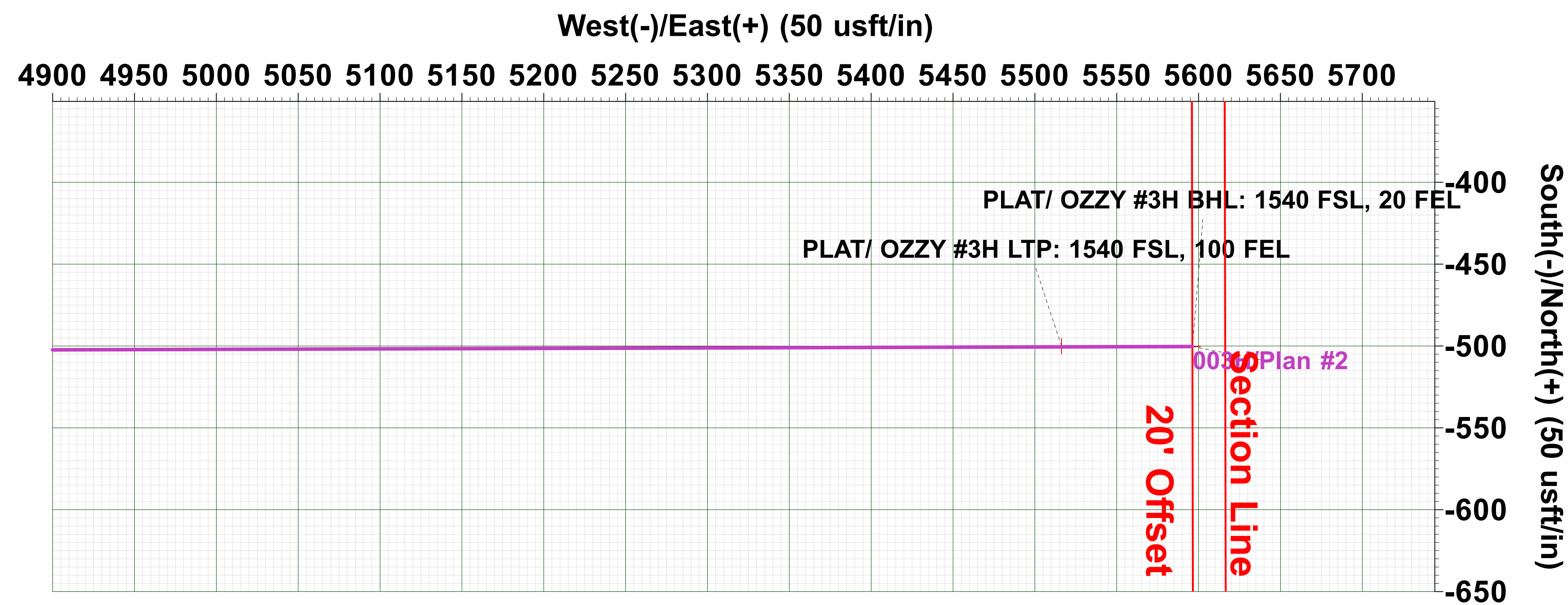
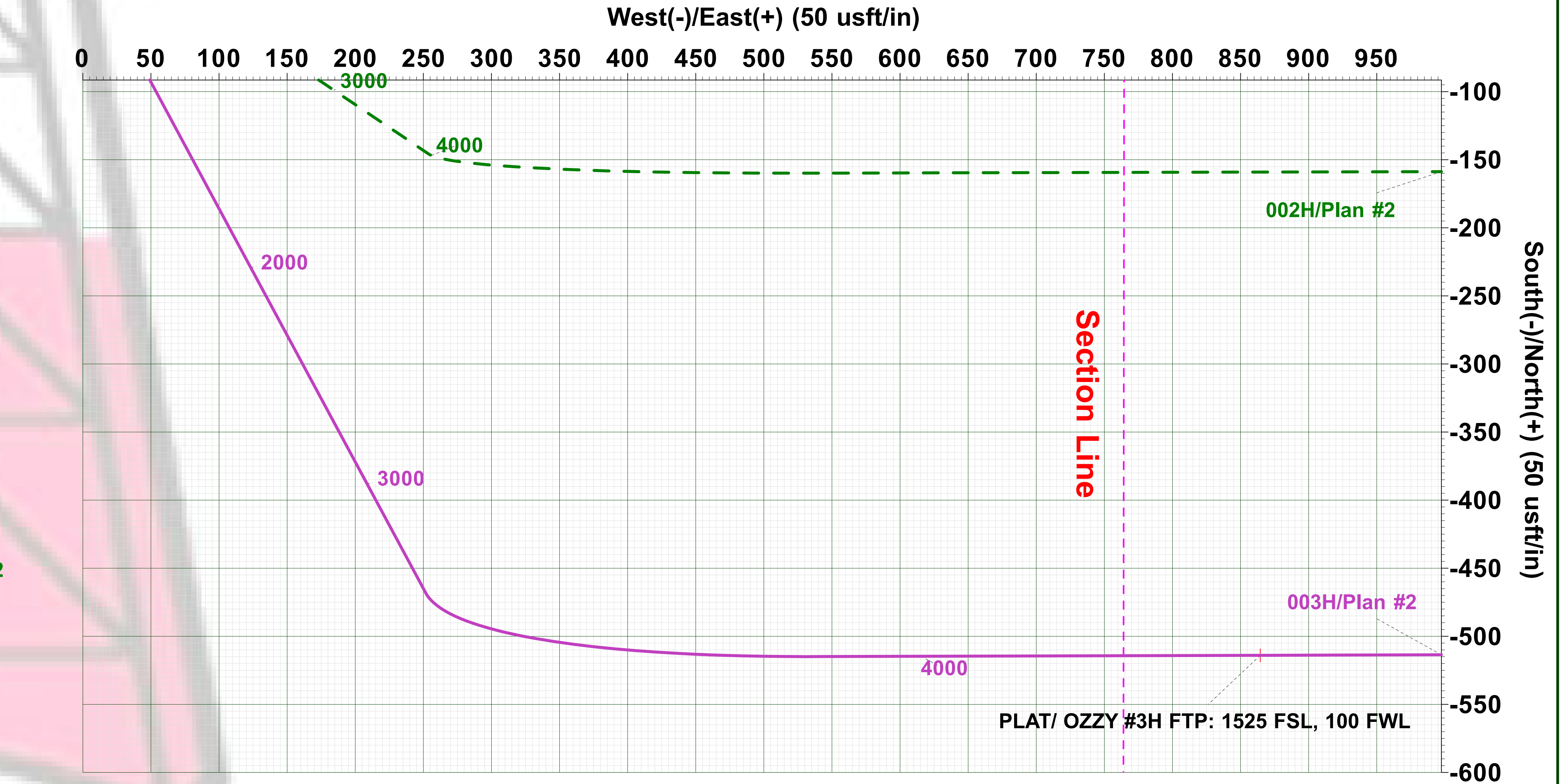
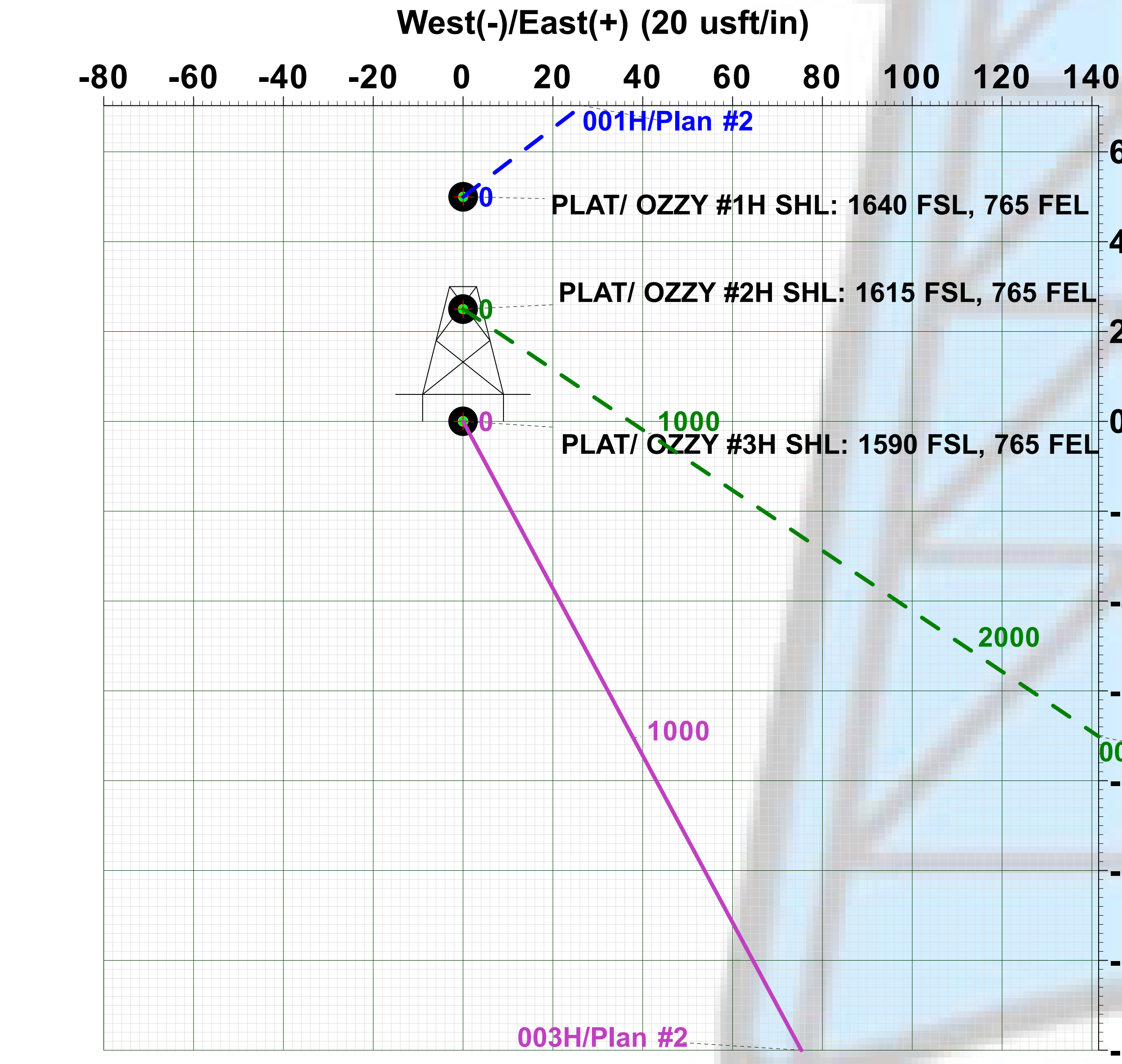


Azimuths to Grid North  
True North: -0.11°  
Magnetic North: 6.74°  
  
Magnetic Field  
Strength: 47797.8snT  
Dip Angle: 60.37°  
Date: 6/2/2021  
Model: IGRF2020

PROJECT DETAILS: Eddy Co., NM (Nad-83)  
  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

CORRECTION REFERENCE DATA:

To convert a Magnetic Direction to a Grid Direction, Add 6.741°  
To convert a True Direction to a Grid Direction, Subtract 0.114°  
To convert a Magnetic Direction to a True Direction, Add 6.854° East  
Magnetic Declination: 6.854°  
Grid Convergence: 0.114° West  
Magnetic Dip Angle: 60.372°  
Magnetic Field Strength: 47797.80238163nT



Disclaimer:

All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.

Plan: Plan #2 (003H/Wellbore #1)

Created By: Matthew May Date: 19:51, June 03 2021



# Longfellow Energy

Eddy Co., NM (Nad-83)

OZZY FED COM 18C

003H

Wellbore #1

Plan: Plan #2

## Standard Planning Report

03 June, 2021

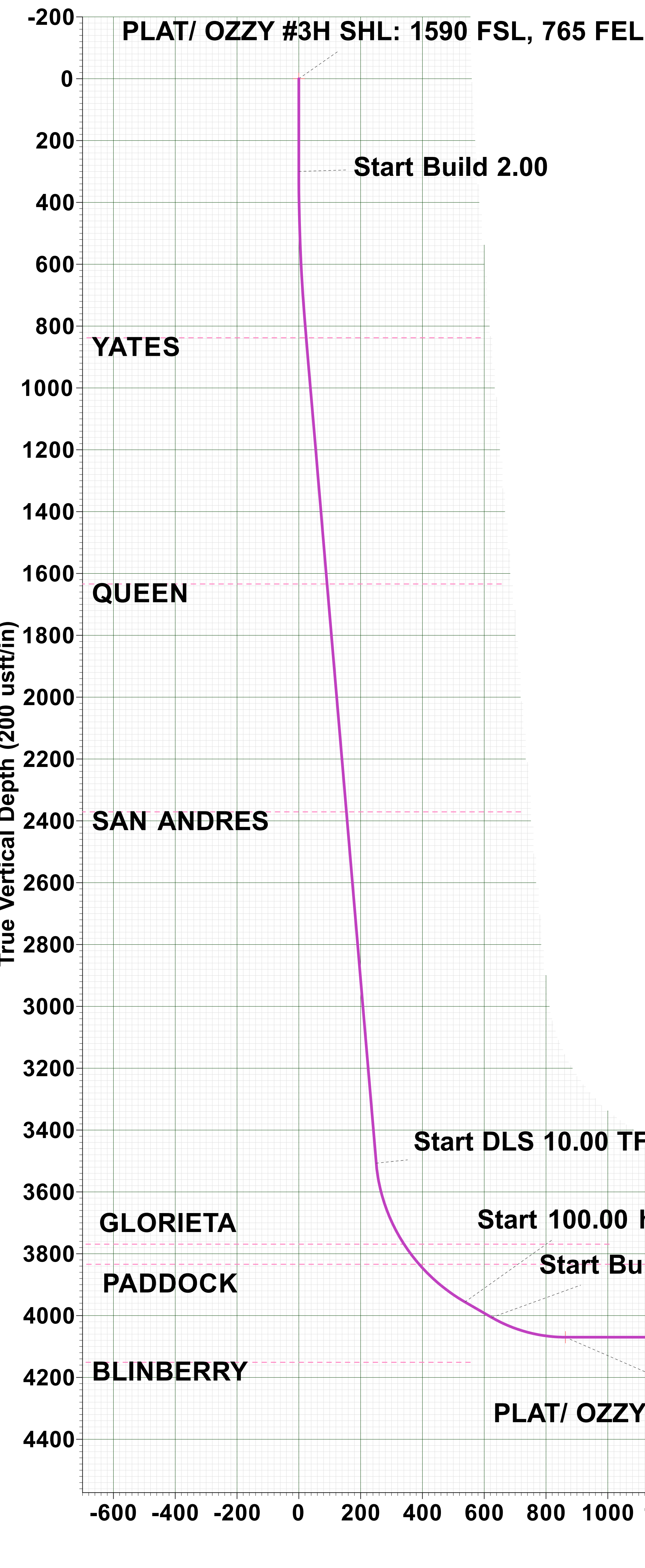
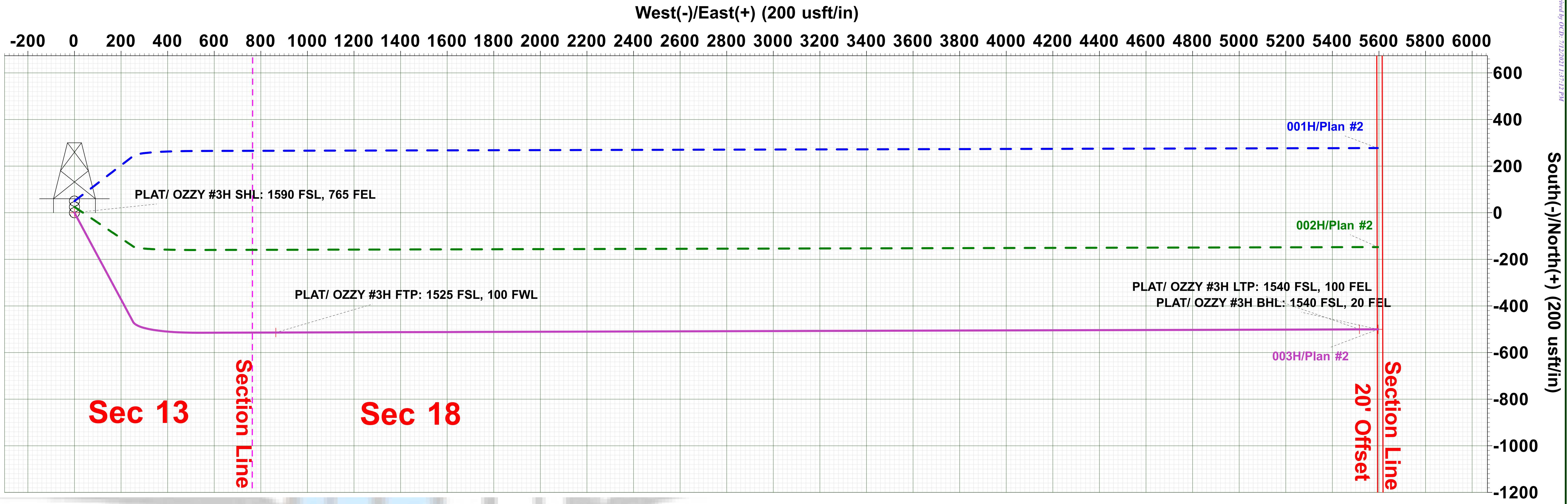




Company: Longfellow Energy  
Project: Eddy Co., NM (Nad-83)  
Site: OZZY FED COM 18C  
Well: 003H  
Wellbore: Wellbore #1  
Rig:  
Design: Plan #2 / 19:51, June 03 2021

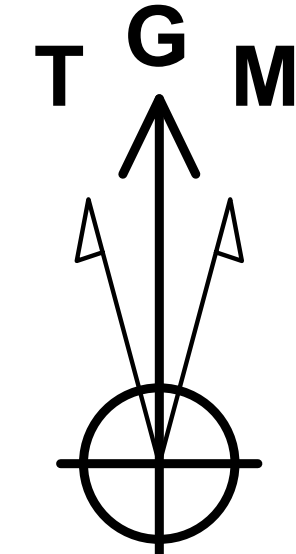


| DESIGN TARGET DETAILS                 |         |         |         |           |           |           |             |
|---------------------------------------|---------|---------|---------|-----------|-----------|-----------|-------------|
| Name                                  | TVD     | +N/-S   | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |
| PLAT/ OZZY #3H SHL: 1590 FSL, 765 FEL | 0.00    | 0.00    | 0.00    | 666823.73 | 605670.30 | 32.832950 | -104.123885 |
| PLAT/ OZZY #3H BHL: 1540 FSL, 20 FEL  | 4070.00 | -500.31 | 5596.32 | 666323.42 | 611266.62 | 32.831543 | -104.105668 |
| PLAT/ OZZY #3H FTP: 1525 FSL, 100 FWL | 4070.00 | -513.96 | 864.48  | 666309.77 | 606534.78 | 32.831532 | -104.121074 |
| PLAT/ OZZY #3H LTP: 1540 FSL, 100 FEL | 4070.00 | -500.13 | 5516.33 | 666323.60 | 611186.63 | 32.831544 | -104.105929 |



| WELL DETAILS: 003H               |       |           |           |           |             |  |  |
|----------------------------------|-------|-----------|-----------|-----------|-------------|--|--|
| EST RKB @ 3714.80usft<br>3697.80 |       |           |           |           |             |  |  |
| +N/-S                            | +E/-W | Northing  | Easting   | Latitude  | Longitude   |  |  |
| 0.00                             | 0.00  | 666823.73 | 605670.30 | 32.832950 | -104.123885 |  |  |

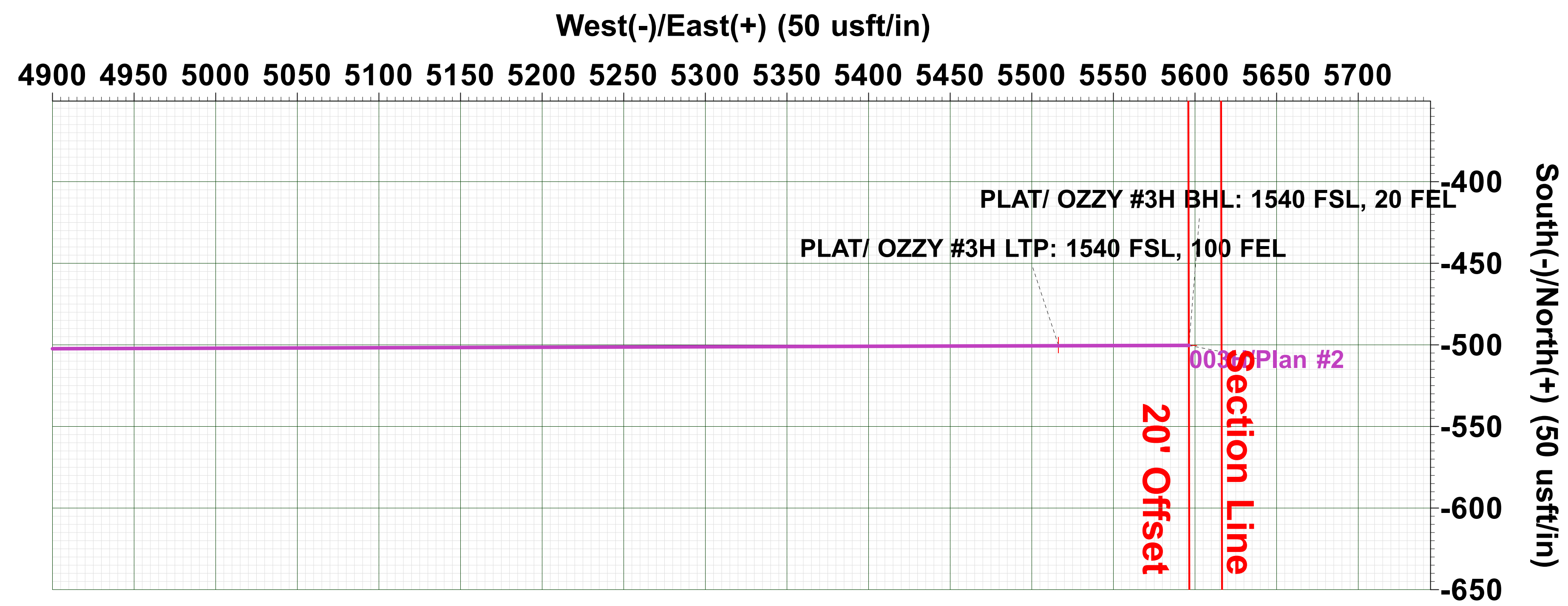
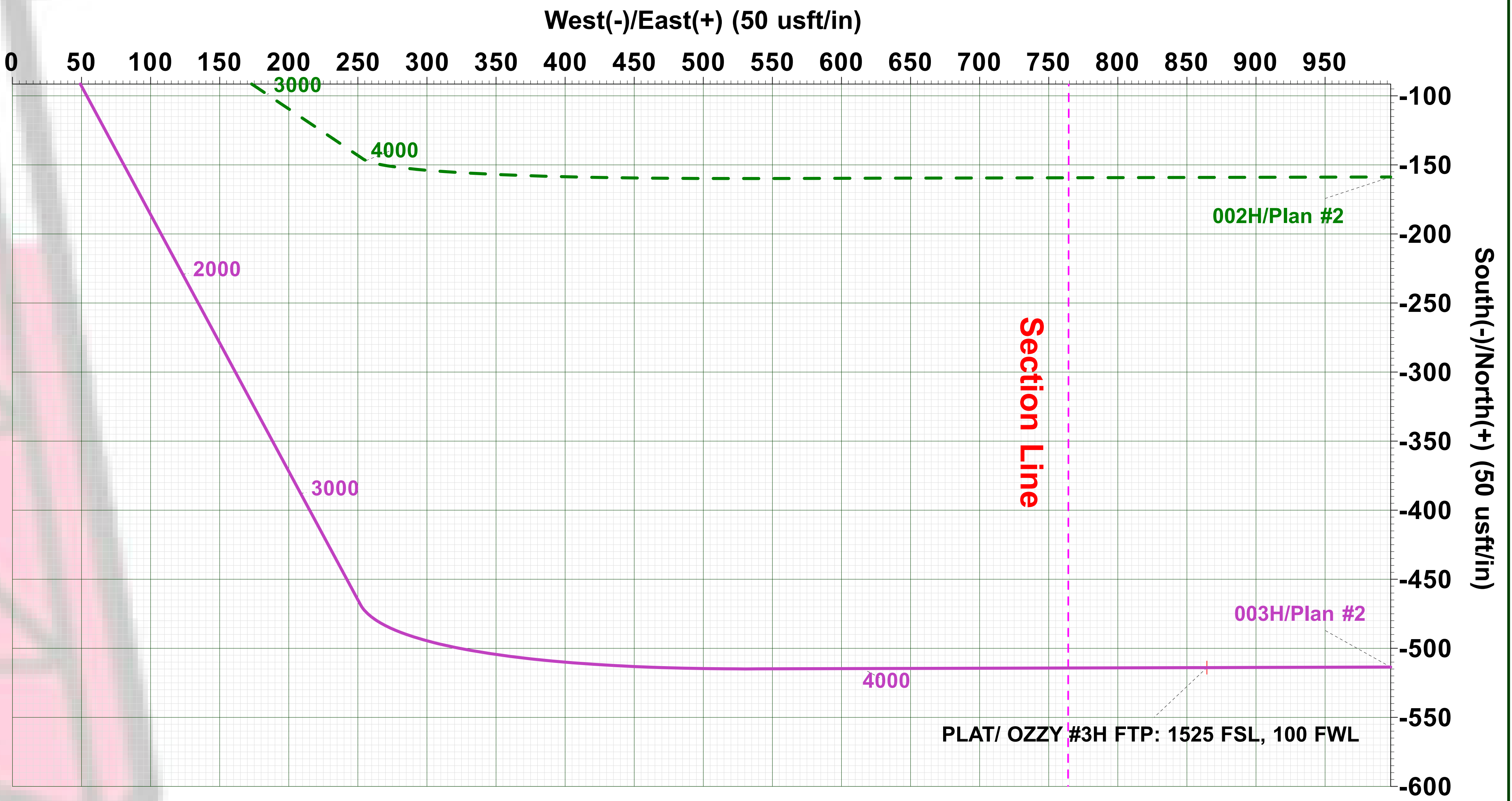
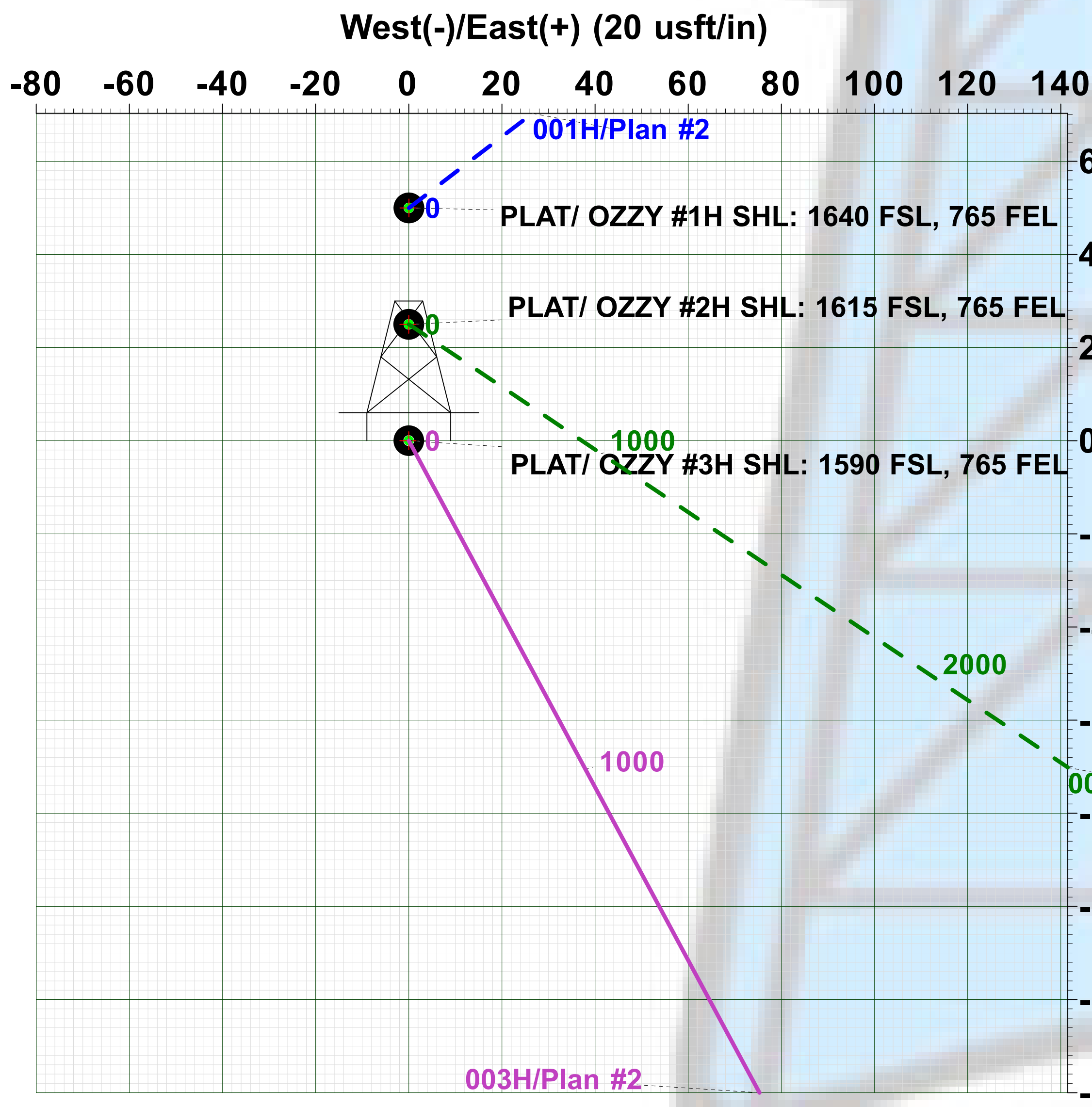
| SECTION DETAILS |         |       |        |         |         |         |       |         |  |
|-----------------|---------|-------|--------|---------|---------|---------|-------|---------|--|
| Sec             | MD      | Inc   | Azi    | TVD     | +N/-S   | +E/-W   | Dleg  | Vsect   |  |
| 1               | 0.00    | 0.00  | 0.00   | 0.00    | 0.00    | 0.00    | 0.00  | 0.00    |  |
| 2               | 300.00  | 0.00  | 0.00   | 300.00  | 0.00    | 0.00    | 0.00  | 0.00    |  |
| 3               | 810.81  | 10.22 | 151.73 | 808.10  | -40.00  | 21.51   | 2.00  | 21.39   |  |
| 4               | 3553.53 | 10.22 | 151.73 | 3507.34 | -468.43 | 251.93  | 0.00  | 250.54  |  |
| 5               | 4109.90 | 60.00 | 89.83  | 3956.03 | -514.89 | 539.14  | 10.00 | 537.61  |  |
| 6               | 4209.90 | 60.00 | 89.83  | 4006.03 | -514.64 | 625.75  | 0.00  | 624.22  |  |
| 7               | 4459.90 | 90.00 | 89.83  | 4070.00 | -513.96 | 864.48  | 12.00 | 862.95  |  |
| 8               | 9111.77 | 90.00 | 89.83  | 4070.00 | -500.54 | 5516.33 | 0.00  | 5514.82 |  |
| 9               | 9191.76 | 90.00 | 89.83  | 4070.00 | -500.31 | 5596.32 | 0.00  | 5594.81 |  |



Azimuths to Grid North  
True North: -0.11°  
Magnetic North: 6.74°  
  
Magnetic Field  
Strength: 47797.8snT  
Dip Angle: 60.37°  
Date: 6/2/2021  
Model: IGRF2020

PROJECT DETAILS: Eddy Co., NM (Nad-83)  
  
Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: New Mexico Eastern Zone  
System Datum: Mean Sea Level

**CORRECTION REFERENCE DATA:**  
  
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To convert a True Direction to a Grid Direction, Subtract 0.114°  
To convert a Magnetic Direction to a True Direction, Add 6.854° East  
Magnetic Declination: 6.854°  
Grid Convergence: 0.114° West  
Magnetic Dip Angle: 60.372°  
Magnetic Field Strength: 47797.80238163nT



**Disclaimer:**  
All Plan Details, boundary lines and offset well location/ survey data is provided by customer and subject to customer approval.

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102  
Revised August 1,  
2011

Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

**WELL LOCATION AND ACREAGE DEDICATION PLAT**

| <sup>1</sup> API Number                 | <sup>2</sup> Pool Code                                     | <sup>3</sup> Pool Name                  |
|-----------------------------------------|------------------------------------------------------------|-----------------------------------------|
| <sup>4</sup> Property Code              | <sup>5</sup> Property Name<br><b>OZZY FEDERAL COM 18C</b>  | <sup>6</sup> Well Number<br><b>003H</b> |
| <sup>7</sup> OGRID No.<br><b>372210</b> | <sup>8</sup> Operator Name<br><b>LONGFELLOW ENERGY, LP</b> | <sup>9</sup> Elevation<br><b>3697.8</b> |

<sup>10</sup> Surface Location

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>I</b>      | <b>13</b> | <b>17 S</b> | <b>28 E</b> |         | <b>1590</b>   | <b>SOUTH</b>     | <b>765</b>    | <b>EAST</b>    | <b>EDDY</b> |

<sup>11</sup> Bottom Hole Location If Different From Surface

| UL or lot no. | Section   | Township    | Range       | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County      |
|---------------|-----------|-------------|-------------|---------|---------------|------------------|---------------|----------------|-------------|
| <b>I</b>      | <b>18</b> | <b>17 S</b> | <b>29 E</b> |         | <b>1540</b>   | <b>SOUTH</b>     | <b>20</b>     | <b>EAST</b>    | <b>EDDY</b> |

| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
|                               |                               |                                  |                         |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>NW CORNER SEC. 13<br/>LAT. = 32.8431424°N<br/>LONG. = 104.1387095°W<br/>NMSP EAST (FT)<br/>N = 670523.36<br/>E = 601110.01<br/>N89°50'58"E 2663.82 FT<br/>N89°46'03"E 2666.00 FT</p> <p>NW CORNER SEC. 18<br/>LAT. = 32.8418304°N<br/>LONG. = 104.1213621°W<br/>NMSP EAST (FT)<br/>N = 670056.28<br/>E = 606438.68<br/>S00°01'18"E 485.02 FT</p> <p>NE CORNER SEC. 18<br/>LAT. = 32.8418330°N<br/>LONG. = 104.1056015°W<br/>NMSP EAST (FT)<br/>N = 670067.31<br/>E = 611279.13</p> <p>N/4 CORNER SEC. 13<br/>LAT. = 32.8431478°N<br/>LONG. = 104.1300381°W<br/>NMSP EAST (FT)<br/>N = 670530.36<br/>E = 605773.17</p> <p>N/4 CORNER SEC. 18<br/>LAT. = 32.8418297°N<br/>LONG. = 104.1141987°W<br/>NMSP EAST (FT)<br/>N = 670060.53<br/>E = 608638.71</p> <p>W/4 CORNER SEC. 13<br/>LAT. = 32.8358282°N<br/>LONG. = 104.1385221°W<br/>NMSP EAST (FT)<br/>N = 667862.46<br/>E = 601172.46</p> <p>W/4 CORNER SEC. 18<br/>LAT. = 32.8345730°N<br/>LONG. = 104.1056028°W<br/>NMSP EAST (FT)<br/>N = 667426.00<br/>E = 611284.41</p> <p>S/4 CORNER SEC. 13<br/>LAT. = 32.8285531°N<br/>LONG. = 104.1298694°W<br/>NMSP EAST (FT)<br/>N = 665220.65<br/>E = 603835.19</p> <p>S/4 CORNER SEC. 18<br/>LAT. = 32.8273413°N<br/>LONG. = 104.1142272°W<br/>NMSP EAST (FT)<br/>N = 664789.39<br/>E = 608640.89</p> <p>SW CORNER SEC. 13<br/>LAT. = 32.8285163°N<br/>LONG. = 104.1383286°W<br/>NMSP EAST (FT)<br/>N = 665202.37<br/>E = 601236.82</p> <p>SW CORNER SEC. 18<br/>LAT. = 32.8273415°N<br/>LONG. = 104.1214155°W<br/>NMSP EAST (FT)<br/>N = 664784.94<br/>E = 606432.86</p> <p>SE CORNER SEC. 13<br/>LAT. = 32.8285895°N<br/>LONG. = 104.1214098°W<br/>NMSP EAST (FT)<br/>N = 665238.99<br/>E = 606433.68</p> <p>SE CORNER SEC. 18<br/>LAT. = 32.8273104°N<br/>LONG. = 104.1056042°W<br/>NMSP EAST (FT)<br/>N = 664783.74<br/>E = 611289.70</p> <p>OZZY FEDERAL COM 18C 003H<br/>ELEV. = 3697.8'<br/>LAT. = 32.8329495°N (NAD83)<br/>LONG. = 104.1238848°W<br/>NMSP EAST (FT) DNF<br/>N = 666823.73<br/>E = 605670.30</p> <p>LAST TAKE POINT<br/>1540' FSL, 100' FEL<br/>LAT. = 32.8315435°N<br/>LONG. = 104.1059289°W</p> <p>FIRST TAKE POINT<br/>1525' FSL, 100' FWL<br/>LAT. = 32.8315321°N<br/>LONG. = 104.1210737°W</p> <p>BOTTOM OF HOLE<br/>LAT. = 32.8315425°N<br/>LONG. = 104.1056685°W<br/>NMSP EAST (FT)<br/>N = 666323.42<br/>E = 611266.62</p> <p>SHL 765'<br/>FTP 1590'<br/>BHL 20'<br/>LTP 20'</p> | <p><b>17 OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature _____ Date _____</p> <p>Printed Name _____</p> <p>E-mail Address _____</p> <p><b>18 SURVEYOR CERTIFICATION</b></p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MAY 26, 2021</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor: </p> <p>Certificate Number: <b>PLM/CLE JAR/MILLER PLS 12797</b><br/>SURVEY NO. 8391A</p> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Wellbore:</b> | Wellbore #1           |                                     |                       |
| <b>Design:</b>   | Plan #2               |                                     |                       |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy Co., NM (Nad-83)     |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

|                       |           |                  |                 |                   |             |
|-----------------------|-----------|------------------|-----------------|-------------------|-------------|
| Site                  |           | OZZY FED COM 18C |                 |                   |             |
| Site Position:        |           | Northing:        | 666,873.72 usft | Latitude:         | 32.833087   |
| From:                 | Map       | Easting:         | 605,670.34 usft | Longitude:        | -104.123885 |
| Position Uncertainty: | 0.00 usft | Slot Radius:     | 13.200 in       | Grid Convergence: | 0.114       |

|                      |       |             |                     |                 |               |               |
|----------------------|-------|-------------|---------------------|-----------------|---------------|---------------|
| Well                 | 003H  |             |                     |                 |               |               |
| Well Position        | +N/-S | -49.99 usft | Northing:           | 666,823.73 usft | Latitude:     | 32.832950     |
|                      | +E/-W | -0.04 usft  | Easting:            | 605,670.30 usft | Longitude:    | -104.123885   |
| Position Uncertainty |       | 0.00 usft   | Wellhead Elevation: |                 | Ground Level: | 3,697.80 usft |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | Wellbore #1       |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2020          | 6/2/2021           | 6.854                  | 60.372               | 47,797.80238163            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #2                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.00                 |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.00                           | 0.00                | 0.00                 | 89.83                |

|                                 |                        |                          |                       |                       |
|---------------------------------|------------------------|--------------------------|-----------------------|-----------------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 6/3/2021                 |                       |                       |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>      | <b>Remarks</b>        |
| 1                               | 0.00                   | 9,191.76                 | Plan #2 (Wellbore #1) | MWD+IGRF              |
|                                 |                        |                          |                       | OWSG MWD + IGRF or WM |

|                              |                        |                    |                              |                     |                     |                              |                             |                            |                |                  |
|------------------------------|------------------------|--------------------|------------------------------|---------------------|---------------------|------------------------------|-----------------------------|----------------------------|----------------|------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                     |                     |                              |                             |                            |                |                  |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b> | <b>Dogleg Rate (°/100ft)</b> | <b>Build Rate (°/100ft)</b> | <b>Turn Rate (°/100ft)</b> | <b>TFO (°)</b> | <b>Target</b>    |
| 0.00                         | 0.00                   | 0.00               | 0.00                         | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 300.00                       | 0.00                   | 0.00               | 300.00                       | 0.00                | 0.00                | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 810.81                       | 10.22                  | 151.73             | 808.10                       | -40.00              | 21.51               | 2.00                         | 2.00                        | 0.00                       | 151.728        |                  |
| 3,553.53                     | 10.22                  | 151.73             | 3,507.34                     | -468.43             | 251.93              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 4,109.90                     | 60.00                  | 89.83              | 3,956.03                     | -514.89             | 539.14              | 10.00                        | 8.95                        | -11.12                     | -67.729        |                  |
| 4,209.90                     | 60.00                  | 89.83              | 4,006.03                     | -514.64             | 625.75              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 4,459.90                     | 90.00                  | 89.83              | 4,070.00                     | -513.96             | 864.48              | 12.00                        | 12.00                       | 0.00                       | 0.000          | PLAT/ OZZY #3H F |
| 9,111.77                     | 90.00                  | 89.83              | 4,070.00                     | -500.54             | 5,516.33            | 0.00                         | 0.00                        | 0.00                       | 0.000          | PLAT/ OZZY #3H L |
| 9,191.76                     | 90.00                  | 89.83              | 4,070.00                     | -500.31             | 5,596.32            | 0.00                         | 0.00                        | 0.00                       | 0.000          | PLAT/ OZZY #3H B |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Wellbore:</b> | Wellbore #1           |                                     |                       |
| <b>Design:</b>   | Plan #2               |                                     |                       |

| Planned Survey                        |                 |             |                       |              |              |                         |                       |                      |                     |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | 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                |
| PLAT/ OZZY #3H SHL: 1590 FSL, 765 FEL |                 |             |                       |              |              |                         |                       |                      |                     |
| 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                |
| 400.00                                | 2.00            | 151.73      | 399.98                | -1.54        | 0.83         | 0.82                    | 2.00                  | 2.00                 | 0.00                |
| 500.00                                | 4.00            | 151.73      | 499.84                | -6.15        | 3.31         | 3.29                    | 2.00                  | 2.00                 | 0.00                |
| 600.00                                | 6.00            | 151.73      | 599.45                | -13.82       | 7.43         | 7.39                    | 2.00                  | 2.00                 | 0.00                |
| 700.00                                | 8.00            | 151.73      | 698.70                | -24.55       | 13.21        | 13.13                   | 2.00                  | 2.00                 | 0.00                |
| 800.00                                | 10.00           | 151.73      | 797.47                | -38.33       | 20.62        | 20.50                   | 2.00                  | 2.00                 | 0.00                |
| 810.81                                | 10.22           | 151.73      | 808.10                | -40.00       | 21.51        | 21.39                   | 2.00                  | 2.00                 | 0.00                |
| 900.00                                | 10.22           | 151.73      | 895.88                | -53.93       | 29.01        | 28.85                   | 0.00                  | 0.00                 | 0.00                |
| 1,000.00                              | 10.22           | 151.73      | 994.30                | -69.55       | 37.41        | 37.20                   | 0.00                  | 0.00                 | 0.00                |
| 1,100.00                              | 10.22           | 151.73      | 1,092.71              | -85.17       | 45.81        | 45.56                   | 0.00                  | 0.00                 | 0.00                |
| 1,200.00                              | 10.22           | 151.73      | 1,191.13              | -100.79      | 54.21        | 53.91                   | 0.00                  | 0.00                 | 0.00                |
| 1,300.00                              | 10.22           | 151.73      | 1,289.54              | -116.42      | 62.61        | 62.26                   | 0.00                  | 0.00                 | 0.00                |
| 1,400.00                              | 10.22           | 151.73      | 1,387.96              | -132.04      | 71.01        | 70.62                   | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                              | 10.22           | 151.73      | 1,486.37              | -147.66      | 79.41        | 78.97                   | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                              | 10.22           | 151.73      | 1,584.79              | -163.28      | 87.81        | 87.33                   | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                              | 10.22           | 151.73      | 1,683.20              | -178.90      | 96.21        | 95.68                   | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                              | 10.22           | 151.73      | 1,781.61              | -194.52      | 104.62       | 104.04                  | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                              | 10.22           | 151.73      | 1,880.03              | -210.14      | 113.02       | 112.39                  | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                              | 10.22           | 151.73      | 1,978.44              | -225.76      | 121.42       | 120.75                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                              | 10.22           | 151.73      | 2,076.86              | -241.38      | 129.82       | 129.10                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                              | 10.22           | 151.73      | 2,175.27              | -257.00      | 138.22       | 137.46                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                              | 10.22           | 151.73      | 2,273.69              | -272.62      | 146.62       | 145.81                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                              | 10.22           | 151.73      | 2,372.10              | -288.24      | 155.02       | 154.16                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                              | 10.22           | 151.73      | 2,470.52              | -303.86      | 163.42       | 162.52                  | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                              | 10.22           | 151.73      | 2,568.93              | -319.48      | 171.82       | 170.87                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                              | 10.22           | 151.73      | 2,667.35              | -335.10      | 180.22       | 179.23                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                              | 10.22           | 151.73      | 2,765.76              | -350.72      | 188.62       | 187.58                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                              | 10.22           | 151.73      | 2,864.17              | -366.34      | 197.03       | 195.94                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                              | 10.22           | 151.73      | 2,962.59              | -381.96      | 205.43       | 204.29                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                              | 10.22           | 151.73      | 3,061.00              | -397.58      | 213.83       | 212.65                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                              | 10.22           | 151.73      | 3,159.42              | -413.20      | 222.23       | 221.00                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                              | 10.22           | 151.73      | 3,257.83              | -428.82      | 230.63       | 229.36                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                              | 10.22           | 151.73      | 3,356.25              | -444.44      | 239.03       | 237.71                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                              | 10.22           | 151.73      | 3,454.66              | -460.06      | 247.43       | 246.07                  | 0.00                  | 0.00                 | 0.00                |
| 3,553.53                              | 10.22           | 151.73      | 3,507.34              | -468.43      | 251.93       | 250.54                  | 0.00                  | 0.00                 | 0.00                |
| 3,600.00                              | 12.72           | 131.82      | 3,552.90              | -475.47      | 257.70       | 256.28                  | 10.00                 | 5.38                 | -42.84              |
| 3,650.00                              | 16.47           | 118.57      | 3,601.29              | -482.53      | 268.03       | 266.60                  | 10.00                 | 7.51                 | -26.50              |
| 3,700.00                              | 20.75           | 110.38      | 3,648.67              | -489.01      | 282.56       | 281.11                  | 10.00                 | 8.55                 | -16.38              |
| 3,750.00                              | 25.28           | 104.95      | 3,694.69              | -494.85      | 301.19       | 299.72                  | 10.00                 | 9.06                 | -10.85              |
| 3,800.00                              | 29.95           | 101.11      | 3,738.99              | -500.02      | 323.77       | 322.28                  | 10.00                 | 9.35                 | -7.69               |
| 3,850.00                              | 34.71           | 98.22       | 3,781.22              | -504.46      | 350.12       | 348.62                  | 10.00                 | 9.51                 | -5.77               |
| 3,900.00                              | 39.52           | 95.96       | 3,821.09              | -508.15      | 380.05       | 378.54                  | 10.00                 | 9.62                 | -4.53               |
| 3,950.00                              | 44.37           | 94.12       | 3,858.27              | -511.06      | 413.33       | 411.81                  | 10.00                 | 9.69                 | -3.68               |
| 4,000.00                              | 49.24           | 92.57       | 3,892.49              | -513.16      | 449.70       | 448.18                  | 10.00                 | 9.74                 | -3.10               |
| 4,050.00                              | 54.13           | 91.23       | 3,923.48              | -514.45      | 488.90       | 487.37                  | 10.00                 | 9.78                 | -2.67               |
| 4,100.00                              | 59.03           | 90.05       | 3,951.01              | -514.90      | 530.61       | 529.08                  | 10.00                 | 9.80                 | -2.36               |
| 4,109.90                              | 60.00           | 89.83       | 3,956.03              | -514.89      | 539.14       | 537.61                  | 10.00                 | 9.82                 | -2.21               |
| 4,209.90                              | 60.00           | 89.83       | 4,006.03              | -514.64      | 625.75       | 624.22                  | 0.00                  | 0.00                 | 0.00                |
| 4,225.00                              | 61.81           | 89.83       | 4,013.38              | -514.61      | 638.94       | 637.41                  | 12.00                 | 12.00                | 0.00                |
| 4,250.00                              | 64.81           | 89.83       | 4,024.60              | -514.54      | 661.28       | 659.75                  | 12.00                 | 12.00                | 0.00                |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Wellbore:</b> | Wellbore #1           |                                     |                       |
| <b>Design:</b>   | Plan #2               |                                     |                       |

| Planned Survey                        |                 |             |                       |              |              |                         |                       |                      |                     |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 4,275.00                              | 67.81           | 89.83       | 4,034.64              | -514.48      | 684.17       | 682.64                  | 12.00                 | 12.00                | 0.00                |
| 4,300.00                              | 70.81           | 89.83       | 4,043.48              | -514.41      | 707.55       | 706.02                  | 12.00                 | 12.00                | 0.00                |
| 4,325.00                              | 73.81           | 89.83       | 4,051.07              | -514.34      | 731.37       | 729.84                  | 12.00                 | 12.00                | 0.00                |
| 4,350.00                              | 76.81           | 89.83       | 4,057.41              | -514.27      | 755.55       | 754.02                  | 12.00                 | 12.00                | 0.00                |
| 4,375.00                              | 79.81           | 89.83       | 4,062.47              | -514.20      | 780.03       | 778.50                  | 12.00                 | 12.00                | 0.00                |
| 4,400.00                              | 82.81           | 89.83       | 4,066.25              | -514.13      | 804.74       | 803.21                  | 12.00                 | 12.00                | 0.00                |
| 4,425.00                              | 85.81           | 89.83       | 4,068.73              | -514.06      | 829.61       | 828.08                  | 12.00                 | 12.00                | 0.00                |
| 4,450.00                              | 88.81           | 89.83       | 4,069.90              | -513.98      | 854.58       | 853.05                  | 12.00                 | 12.00                | 0.00                |
| 4,459.90                              | 90.00           | 89.83       | 4,070.00              | -513.96      | 864.48       | 862.95                  | 12.00                 | 12.00                | 0.00                |
| PLAT/ OZZY #3H FTP: 1525 FSL, 100 FWL |                 |             |                       |              |              |                         |                       |                      |                     |
| 4,500.00                              | 90.00           | 89.83       | 4,070.00              | -513.84      | 904.58       | 903.05                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                              | 90.00           | 89.83       | 4,070.00              | -513.55      | 1,004.58     | 1,003.05                | 0.00                  | 0.00                 | 0.00                |
| 4,700.00                              | 90.00           | 89.83       | 4,070.00              | -513.26      | 1,104.58     | 1,103.05                | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                              | 90.00           | 89.83       | 4,070.00              | -512.98      | 1,204.58     | 1,203.05                | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                              | 90.00           | 89.83       | 4,070.00              | -512.69      | 1,304.58     | 1,303.05                | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                              | 90.00           | 89.83       | 4,070.00              | -512.40      | 1,404.58     | 1,403.05                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                              | 90.00           | 89.83       | 4,070.00              | -512.11      | 1,504.58     | 1,503.05                | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                              | 90.00           | 89.83       | 4,070.00              | -511.82      | 1,604.58     | 1,603.05                | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                              | 90.00           | 89.83       | 4,070.00              | -511.53      | 1,704.58     | 1,703.05                | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                              | 90.00           | 89.83       | 4,070.00              | -511.24      | 1,804.58     | 1,803.05                | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                              | 90.00           | 89.83       | 4,070.00              | -510.96      | 1,904.58     | 1,903.05                | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                              | 90.00           | 89.83       | 4,070.00              | -510.67      | 2,004.57     | 2,003.05                | 0.00                  | 0.00                 | 0.00                |
| 5,700.00                              | 90.00           | 89.83       | 4,070.00              | -510.38      | 2,104.57     | 2,103.05                | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                              | 90.00           | 89.83       | 4,070.00              | -510.09      | 2,204.57     | 2,203.05                | 0.00                  | 0.00                 | 0.00                |
| 5,900.00                              | 90.00           | 89.83       | 4,070.00              | -509.80      | 2,304.57     | 2,303.05                | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                              | 90.00           | 89.83       | 4,070.00              | -509.51      | 2,404.57     | 2,403.05                | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                              | 90.00           | 89.83       | 4,070.00              | -509.23      | 2,504.57     | 2,503.05                | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                              | 90.00           | 89.83       | 4,070.00              | -508.94      | 2,604.57     | 2,603.05                | 0.00                  | 0.00                 | 0.00                |
| 6,300.00                              | 90.00           | 89.83       | 4,070.00              | -508.65      | 2,704.57     | 2,703.05                | 0.00                  | 0.00                 | 0.00                |
| 6,400.00                              | 90.00           | 89.83       | 4,070.00              | -508.36      | 2,804.57     | 2,803.05                | 0.00                  | 0.00                 | 0.00                |
| 6,500.00                              | 90.00           | 89.83       | 4,070.00              | -508.07      | 2,904.57     | 2,903.05                | 0.00                  | 0.00                 | 0.00                |
| 6,600.00                              | 90.00           | 89.83       | 4,070.00              | -507.78      | 3,004.57     | 3,003.05                | 0.00                  | 0.00                 | 0.00                |
| 6,700.00                              | 90.00           | 89.83       | 4,070.00              | -507.50      | 3,104.57     | 3,103.05                | 0.00                  | 0.00                 | 0.00                |
| 6,800.00                              | 90.00           | 89.83       | 4,070.00              | -507.21      | 3,204.57     | 3,203.05                | 0.00                  | 0.00                 | 0.00                |
| 6,900.00                              | 90.00           | 89.83       | 4,070.00              | -506.92      | 3,304.57     | 3,303.05                | 0.00                  | 0.00                 | 0.00                |
| 7,000.00                              | 90.00           | 89.83       | 4,070.00              | -506.63      | 3,404.57     | 3,403.05                | 0.00                  | 0.00                 | 0.00                |
| 7,100.00                              | 90.00           | 89.83       | 4,070.00              | -506.34      | 3,504.57     | 3,503.05                | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                              | 90.00           | 89.83       | 4,070.00              | -506.05      | 3,604.57     | 3,603.05                | 0.00                  | 0.00                 | 0.00                |
| 7,300.00                              | 90.00           | 89.83       | 4,070.00              | -505.77      | 3,704.57     | 3,703.05                | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                              | 90.00           | 89.83       | 4,070.00              | -505.48      | 3,804.57     | 3,803.05                | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                              | 90.00           | 89.83       | 4,070.00              | -505.19      | 3,904.57     | 3,903.05                | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                              | 90.00           | 89.83       | 4,070.00              | -504.90      | 4,004.57     | 4,003.05                | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                              | 90.00           | 89.83       | 4,070.00              | -504.61      | 4,104.57     | 4,103.05                | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                              | 90.00           | 89.83       | 4,070.00              | -504.32      | 4,204.57     | 4,203.05                | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                              | 90.00           | 89.83       | 4,070.00              | -504.04      | 4,304.57     | 4,303.05                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                              | 90.00           | 89.83       | 4,070.00              | -503.75      | 4,404.56     | 4,403.05                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                              | 90.00           | 89.83       | 4,070.00              | -503.46      | 4,504.56     | 4,503.05                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                              | 90.00           | 89.83       | 4,070.00              | -503.17      | 4,604.56     | 4,603.05                | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                              | 90.00           | 89.83       | 4,070.00              | -502.88      | 4,704.56     | 4,703.05                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                              | 90.00           | 89.83       | 4,070.00              | -502.59      | 4,804.56     | 4,803.05                | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                              | 90.00           | 89.83       | 4,070.00              | -502.30      | 4,904.56     | 4,903.05                | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                              | 90.00           | 89.83       | 4,070.00              | -502.02      | 5,004.56     | 5,003.05                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                              | 90.00           | 89.83       | 4,070.00              | -501.73      | 5,104.56     | 5,103.05                | 0.00                  | 0.00                 | 0.00                |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Wellbore:</b> | Wellbore #1           |                                     |                       |
| <b>Design:</b>   | Plan #2               |                                     |                       |

| Planned Survey                        |                 |             |                       |              |              |                         |                       |                      |                     |
|---------------------------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-----------------------|----------------------|---------------------|
| Measured Depth (usft)                 | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100ft) | Build Rate (°/100ft) | Turn Rate (°/100ft) |
| 8,800.00                              | 90.00           | 89.83       | 4,070.00              | -501.44      | 5,204.56     | 5,203.05                | 0.00                  | 0.00                 | 0.00                |
| 8,900.00                              | 90.00           | 89.83       | 4,070.00              | -501.15      | 5,304.56     | 5,303.05                | 0.00                  | 0.00                 | 0.00                |
| 9,000.00                              | 90.00           | 89.83       | 4,070.00              | -500.86      | 5,404.56     | 5,403.05                | 0.00                  | 0.00                 | 0.00                |
| 9,100.00                              | 90.00           | 89.83       | 4,070.00              | -500.57      | 5,504.56     | 5,503.05                | 0.00                  | 0.00                 | 0.00                |
| 9,111.77                              | 90.00           | 89.83       | 4,070.00              | -500.54      | 5,516.33     | 5,514.82                | 0.00                  | 0.00                 | 0.00                |
| PLAT/ OZZY #3H LTP: 1540 FSL, 100 FEL |                 |             |                       |              |              |                         |                       |                      |                     |
| 9,191.76                              | 90.00           | 89.83       | 4,070.00              | -500.31      | 5,596.32     | 5,594.81                | 0.00                  | 0.00                 | 0.00                |
| PLAT/ OZZY #3H BHL: 1540 FSL, 20 FEL  |                 |             |                       |              |              |                         |                       |                      |                     |

| Design Targets                                                                                                                 |               |              |            |              |              |                 |                |           |             |
|--------------------------------------------------------------------------------------------------------------------------------|---------------|--------------|------------|--------------|--------------|-----------------|----------------|-----------|-------------|
| Target Name<br>- hit/miss target<br>- Shape                                                                                    | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude  | Longitude   |
| PLAT/ OZZY #3H SHI<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 666,823.73      | 605,670.30     | 32.832950 | -104.123885 |
| PLAT/ OZZY #3H LTP<br>- plan misses target center by 0.41usft at 9111.77usft MD (4070.00 TVD, -500.54 N, 5516.33 E)<br>- Point | 0.00          | 0.00         | 4,070.00   | -500.13      | 5,516.33     | 666,323.60      | 611,186.63     | 32.831544 | -104.105929 |
| PLAT/ OZZY #3H FTF<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.00         | 4,070.00   | -513.96      | 864.48       | 666,309.78      | 606,534.78     | 32.831532 | -104.121074 |
| PLAT/ OZZY #3H BHL<br>- plan hits target center<br>- Point                                                                     | 0.00          | 0.00         | 4,070.00   | -500.31      | 5,596.32     | 666,323.42      | 611,266.62     | 32.831543 | -104.105669 |

| Formations            |                       |            |           |         |                   |  |
|-----------------------|-----------------------|------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name       | Lithology | Dip (°) | Dip Direction (°) |  |
| 841.18                | 838.00                | YATES      |           | 0.000   |                   |  |
| 1,650.01              | 1,634.00              | QUEEN      |           | 0.000   |                   |  |
| 2,398.88              | 2,371.00              | SAN ANDRES |           | 0.000   |                   |  |
| 3,835.25              | 3,769.00              | GLORIETA   |           | 0.000   |                   |  |
| 3,916.94              | 3,834.00              | PADDOCK    |           | 0.000   |                   |  |



# Longfellow Energy

Eddy Co., NM (Nad-83)

OZZY FED COM 18C

003H

Wellbore #1

Plan #2

## Anticollision Report

03 June, 2021





## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| <b>Reference</b>                    | Plan #2                                                             |
| <b>Filter type:</b>                 | NO GLOBAL FILTER: Using user defined selection & filtering criteria |
| <b>Interpolation Method:</b>        | MD Interval 30.00usft                                               |
| <b>Depth Range:</b>                 | Unlimited                                                           |
| <b>Results Limited by:</b>          | Maximum separation factor of 20.00                                  |
| <b>Warning Levels Evaluated at:</b> | 2.00 Sigma                                                          |
| <b>Error Model:</b>                 | ISCWSA                                                              |
| <b>Scan Method:</b>                 | Closest Approach 3D                                                 |
| <b>Error Surface:</b>               | Pedal Curve                                                         |
| <b>Casing Method:</b>               | Not applied                                                         |

| Survey Tool Program |           | Date                  | 6/3/2021  |                        |  |
|---------------------|-----------|-----------------------|-----------|------------------------|--|
| From (usft)         | To (usft) | Survey (Wellbore)     | Tool Name | Description            |  |
| 0.00                | 9,191.76  | Plan #2 (Wellbore #1) | MWD+IGRF  | OWSG MWD + IGRF or WMM |  |

| Summary                         |                                 |                              |                                 |                                  |                   |         |
|---------------------------------|---------------------------------|------------------------------|---------------------------------|----------------------------------|-------------------|---------|
| Site Name                       | Reference Measured Depth (usft) | Offset Measured Depth (usft) | Distance Between Centres (usft) | Distance Between Ellipses (usft) | Separation Factor | Warning |
| Offset Well - Wellbore - Design |                                 |                              |                                 |                                  |                   |         |
| OZZY FED COM 18C                |                                 |                              |                                 |                                  |                   |         |
| 001H - Wellbore #1 - Plan #2    | 480.00                          | 478.79                       | 58.43                           | 55.44                            | 19.502            | CC, ES  |
| 001H - Wellbore #1 - Plan #2    | 9,191.76                        | 9,156.12                     | 777.81                          | 491.13                           | 2.713             | SF      |
| 002H - Wellbore #1 - Plan #2    | 301.57                          | 302.48                       | 25.00                           | 23.25                            | 14.323            | CC      |
| 002H - Wellbore #1 - Plan #2    | 360.00                          | 361.20                       | 25.19                           | 23.04                            | 11.714            | ES      |
| 002H - Wellbore #1 - Plan #2    | 9,191.76                        | 9,633.81                     | 595.05                          | 411.10                           | 3.235             | SF      |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: |                   | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: |                   | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           | Warning            |                   |           |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) |                    | Separation Factor |           |
| 480.00                     | 479.88                | 478.79                | 477.58                | 1.49             | 1.51          | -149.850              | 53.38                               | 4.47         | 58.43                  | 55.44                   | 3.00                      | 19.502 CC, ES      |                   |           |
| 510.00                     | 509.81                | 508.24                | 506.96                | 1.59             | 1.61          | -149.319              | 54.59                               | 6.05         | 61.48                  | 58.27                   | 3.21                      | 19.161             |                   |           |
| 540.00                     | 539.72                | 537.61                | 536.24                | 1.70             | 1.72          | -148.768              | 55.98                               | 7.86         | 64.99                  | 61.57                   | 3.42                      | 18.979             |                   |           |
| 570.00                     | 569.60                | 566.89                | 565.41                | 1.81             | 1.83          | -148.210              | 57.54                               | 9.90         | 68.98                  | 65.34                   | 3.64                      | 18.950             |                   |           |
| 600.00                     | 599.45                | 603.83                | 594.39                | 1.92             | 1.97          | -147.658              | 59.28                               | 12.17        | 73.43                  | 69.55                   | 3.88                      | 18.906             |                   |           |
| 630.00                     | 629.27                | 625.61                | 623.82                | 2.03             | 2.05          | -147.170              | 61.16                               | 14.62        | 78.27                  | 74.20                   | 4.08                      | 19.208             |                   |           |
| 660.00                     | 659.05                | 655.17                | 653.22                | 2.15             | 2.16          | -146.848              | 63.04                               | 17.08        | 83.38                  | 79.09                   | 4.30                      | 19.412             |                   |           |
| 690.00                     | 688.80                | 684.69                | 682.58                | 2.27             | 2.28          | -146.667              | 64.91                               | 19.52        | 88.75                  | 84.24                   | 4.52                      | 19.654             |                   |           |
| 720.00                     | 718.50                | 714.15                | 711.88                | 2.39             | 2.39          | -146.604              | 66.79                               | 21.97        | 94.38                  | 89.64                   | 4.74                      | 19.917             |                   |           |
| 4,260.00                   | 4,028.76              | 4,225.05              | 4,026.83              | 21.89            | 20.15         | -89.835               | 265.37                              | 669.32       | 779.89                 | 739.96                  | 39.94                     | 19.529             |                   |           |
| 4,290.00                   | 4,040.09              | 4,254.92              | 4,038.23              | 22.32            | 20.64         | -89.846               | 265.44                              | 696.92       | 779.88                 | 738.95                  | 40.93                     | 19.055             |                   |           |
| 4,320.00                   | 4,049.65              | 4,284.80              | 4,047.89              | 22.77            | 21.16         | -89.858               | 265.51                              | 725.19       | 779.87                 | 737.90                  | 41.96                     | 18.584             |                   |           |
| 4,350.00                   | 4,057.41              | 4,314.69              | 4,055.76              | 23.24            | 21.69         | -89.870               | 265.58                              | 754.02       | 779.85                 | 736.82                  | 43.04                     | 18.121             |                   |           |
| 4,380.00                   | 4,063.33              | 4,344.59              | 4,061.81              | 23.74            | 22.23         | -89.883               | 265.65                              | 783.30       | 779.84                 | 735.69                  | 44.15                     | 17.665             |                   |           |
| 4,410.00                   | 4,067.40              | 4,374.50              | 4,066.02              | 24.25            | 22.79         | -89.896               | 265.73                              | 812.90       | 779.83                 | 734.54                  | 45.28                     | 17.221             |                   |           |
| 4,440.00                   | 4,069.59              | 4,404.41              | 4,068.37              | 24.78            | 23.37         | -89.909               | 265.80                              | 842.72       | 779.82                 | 733.37                  | 46.44                     | 16.790             |                   |           |
| 4,470.00                   | 4,070.00              | 4,434.36              | 4,068.90              | 25.32            | 23.95         | -89.919               | 265.87                              | 872.66       | 779.80                 | 732.18                  | 47.63                     | 16.374             |                   |           |
| 4,500.00                   | 4,070.00              | 4,464.36              | 4,068.90              | 25.87            | 24.55         | -89.919               | 265.95                              | 902.66       | 779.79                 | 730.96                  | 48.83                     | 15.970             |                   |           |
| 4,530.00                   | 4,070.00              | 4,505.64              | 4,068.90              | 26.44            | 25.38         | -89.919               | 266.02                              | 932.66       | 779.78                 | 729.49                  | 50.29                     | 15.506             |                   |           |
| 4,560.00                   | 4,070.00              | 4,524.36              | 4,068.90              | 27.02            | 25.77         | -89.919               | 266.09                              | 962.66       | 779.76                 | 728.46                  | 51.31                     | 15.198             |                   |           |
| 4,590.00                   | 4,070.00              | 4,554.36              | 4,068.90              | 27.60            | 26.40         | -89.919               | 266.17                              | 992.66       | 779.75                 | 727.19                  | 52.56                     | 14.835             |                   |           |
| 4,620.00                   | 4,070.00              | 4,584.36              | 4,068.90              | 28.20            | 27.03         | -89.919               | 266.24                              | 1,022.66     | 779.74                 | 725.90                  | 53.84                     | 14.483             |                   |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  | Offset                | Semi Major Axis       |                       | Distance         |               | Warning               |                                     |              |                        |                         |                           |                    |           |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 4,650.00                   | 4,070.00              | 4,614.36              | 4,068.90              | 28.81            | 27.67         | -89.919               | 266.32                              | 1,052.66     | 779.73                 | 724.59                  | 55.13                     | 14.143             |           |
| 4,680.00                   | 4,070.00              | 4,644.36              | 4,068.90              | 29.43            | 28.33         | -89.919               | 266.39                              | 1,082.66     | 779.71                 | 723.27                  | 56.44                     | 13.814             |           |
| 4,710.00                   | 4,070.00              | 4,674.36              | 4,068.90              | 30.05            | 28.98         | -89.919               | 266.46                              | 1,112.66     | 779.70                 | 721.94                  | 57.76                     | 13.499             |           |
| 4,740.00                   | 4,070.00              | 4,704.36              | 4,068.90              | 30.69            | 29.64         | -89.919               | 266.54                              | 1,142.66     | 779.69                 | 720.60                  | 59.09                     | 13.194             |           |
| 4,770.00                   | 4,070.00              | 4,734.36              | 4,068.90              | 31.33            | 30.32         | -89.919               | 266.61                              | 1,172.66     | 779.68                 | 719.23                  | 60.44                     | 12.899             |           |
| 4,800.00                   | 4,070.00              | 4,764.36              | 4,068.90              | 31.98            | 30.99         | -89.919               | 266.69                              | 1,202.66     | 779.66                 | 717.87                  | 61.80                     | 12.617             |           |
| 4,830.00                   | 4,070.00              | 4,805.64              | 4,068.90              | 32.64            | 31.92         | -89.919               | 266.76                              | 1,232.66     | 779.65                 | 716.23                  | 63.42                     | 12.293             |           |
| 4,860.00                   | 4,070.00              | 4,824.36              | 4,068.90              | 33.30            | 32.36         | -89.919               | 266.83                              | 1,262.66     | 779.64                 | 715.09                  | 64.55                     | 12.079             |           |
| 4,890.00                   | 4,070.00              | 4,854.36              | 4,068.90              | 33.97            | 33.05         | -89.919               | 266.91                              | 1,292.66     | 779.63                 | 713.69                  | 65.93                     | 11.825             |           |
| 4,920.00                   | 4,070.00              | 4,884.36              | 4,068.90              | 34.64            | 33.74         | -89.919               | 266.98                              | 1,322.66     | 779.61                 | 712.29                  | 67.33                     | 11.580             |           |
| 4,950.00                   | 4,070.00              | 4,914.36              | 4,068.90              | 35.32            | 34.44         | -89.919               | 267.05                              | 1,352.66     | 779.60                 | 710.87                  | 68.73                     | 11.343             |           |
| 4,980.00                   | 4,070.00              | 4,944.36              | 4,068.90              | 36.00            | 35.14         | -89.919               | 267.13                              | 1,382.66     | 779.59                 | 709.44                  | 70.14                     | 11.114             |           |
| 5,010.00                   | 4,070.00              | 4,974.36              | 4,068.90              | 36.69            | 35.85         | -89.919               | 267.20                              | 1,412.66     | 779.58                 | 708.01                  | 71.56                     | 10.894             |           |
| 5,040.00                   | 4,070.00              | 5,004.36              | 4,068.90              | 37.39            | 36.56         | -89.919               | 267.28                              | 1,442.66     | 779.56                 | 706.58                  | 72.99                     | 10.681             |           |
| 5,070.00                   | 4,070.00              | 5,034.36              | 4,068.90              | 38.08            | 37.27         | -89.919               | 267.35                              | 1,472.66     | 779.55                 | 705.13                  | 74.42                     | 10.475             |           |
| 5,100.00                   | 4,070.00              | 5,064.36              | 4,068.90              | 38.78            | 37.99         | -89.919               | 267.42                              | 1,502.66     | 779.54                 | 703.68                  | 75.86                     | 10.277             |           |
| 5,130.00                   | 4,070.00              | 5,105.64              | 4,068.90              | 39.49            | 38.98         | -89.919               | 267.50                              | 1,532.66     | 779.52                 | 701.95                  | 77.57                     | 10.049             |           |
| 5,160.00                   | 4,070.00              | 5,124.36              | 4,068.90              | 40.19            | 39.43         | -89.919               | 267.57                              | 1,562.66     | 779.51                 | 700.76                  | 78.75                     | 9.898              |           |
| 5,190.00                   | 4,070.00              | 5,154.36              | 4,068.90              | 40.90            | 40.16         | -89.919               | 267.65                              | 1,592.66     | 779.50                 | 699.30                  | 80.20                     | 9.719              |           |
| 5,220.00                   | 4,070.00              | 5,184.36              | 4,068.90              | 41.62            | 40.88         | -89.919               | 267.72                              | 1,622.66     | 779.49                 | 697.82                  | 81.66                     | 9.545              |           |
| 5,250.00                   | 4,070.00              | 5,214.36              | 4,068.90              | 42.33            | 41.61         | -89.919               | 267.79                              | 1,652.66     | 779.47                 | 696.35                  | 83.13                     | 9.377              |           |
| 5,280.00                   | 4,070.00              | 5,244.36              | 4,068.90              | 43.05            | 42.35         | -89.919               | 267.87                              | 1,682.66     | 779.46                 | 694.87                  | 84.59                     | 9.214              |           |
| 5,310.00                   | 4,070.00              | 5,274.36              | 4,068.90              | 43.77            | 43.08         | -89.919               | 267.94                              | 1,712.66     | 779.45                 | 693.38                  | 86.06                     | 9.057              |           |
| 5,340.00                   | 4,070.00              | 5,304.36              | 4,068.90              | 44.50            | 43.81         | -89.919               | 268.01                              | 1,742.66     | 779.44                 | 691.90                  | 87.54                     | 8.904              |           |
| 5,370.00                   | 4,070.00              | 5,334.36              | 4,068.90              | 45.22            | 44.55         | -89.919               | 268.09                              | 1,772.66     | 779.42                 | 690.40                  | 89.02                     | 8.755              |           |
| 5,400.00                   | 4,070.00              | 5,364.36              | 4,068.90              | 45.95            | 45.29         | -89.919               | 268.16                              | 1,802.66     | 779.41                 | 688.91                  | 90.50                     | 8.612              |           |
| 5,430.00                   | 4,070.00              | 5,405.64              | 4,068.90              | 46.68            | 46.31         | -89.919               | 268.24                              | 1,832.66     | 779.40                 | 687.13                  | 92.27                     | 8.447              |           |
| 5,460.00                   | 4,070.00              | 5,424.36              | 4,068.90              | 47.42            | 46.78         | -89.919               | 268.31                              | 1,862.66     | 779.39                 | 685.91                  | 93.48                     | 8.338              |           |
| 5,490.00                   | 4,070.00              | 5,454.36              | 4,068.90              | 48.15            | 47.52         | -89.919               | 268.38                              | 1,892.66     | 779.37                 | 684.40                  | 94.97                     | 8.206              |           |
| 5,520.00                   | 4,070.00              | 5,484.36              | 4,068.90              | 48.89            | 48.27         | -89.919               | 268.46                              | 1,922.66     | 779.36                 | 682.89                  | 96.47                     | 8.079              |           |
| 5,550.00                   | 4,070.00              | 5,514.36              | 4,068.90              | 49.63            | 49.02         | -89.919               | 268.53                              | 1,952.66     | 779.35                 | 681.38                  | 97.96                     | 7.955              |           |
| 5,580.00                   | 4,070.00              | 5,544.36              | 4,068.90              | 50.36            | 49.77         | -89.919               | 268.61                              | 1,982.66     | 779.33                 | 679.87                  | 99.47                     | 7.835              |           |
| 5,610.00                   | 4,070.00              | 5,574.36              | 4,068.90              | 51.11            | 50.52         | -89.919               | 268.68                              | 2,012.66     | 779.32                 | 678.35                  | 100.97                    | 7.718              |           |
| 5,640.00                   | 4,070.00              | 5,604.36              | 4,068.90              | 51.85            | 51.27         | -89.919               | 268.75                              | 2,042.66     | 779.31                 | 676.84                  | 102.47                    | 7.605              |           |
| 5,670.00                   | 4,070.00              | 5,634.36              | 4,068.90              | 52.59            | 52.02         | -89.919               | 268.83                              | 2,072.66     | 779.30                 | 675.31                  | 103.98                    | 7.494              |           |
| 5,700.00                   | 4,070.00              | 5,664.36              | 4,068.90              | 53.34            | 52.78         | -89.919               | 268.90                              | 2,102.66     | 779.28                 | 673.79                  | 105.49                    | 7.387              |           |
| 5,730.00                   | 4,070.00              | 5,705.64              | 4,068.90              | 54.09            | 53.81         | -89.919               | 268.98                              | 2,132.66     | 779.27                 | 671.98                  | 107.29                    | 7.263              |           |
| 5,760.00                   | 4,070.00              | 5,724.36              | 4,068.90              | 54.84            | 54.29         | -89.919               | 269.05                              | 2,162.66     | 779.26                 | 670.74                  | 108.52                    | 7.181              |           |
| 5,790.00                   | 4,070.00              | 5,754.36              | 4,068.90              | 55.59            | 55.04         | -89.919               | 269.12                              | 2,192.66     | 779.25                 | 669.21                  | 110.04                    | 7.082              |           |
| 5,820.00                   | 4,070.00              | 5,784.36              | 4,068.90              | 56.34            | 55.80         | -89.919               | 269.20                              | 2,222.66     | 779.23                 | 667.68                  | 111.55                    | 6.985              |           |
| 5,850.00                   | 4,070.00              | 5,814.36              | 4,068.90              | 57.09            | 56.56         | -89.919               | 269.27                              | 2,252.66     | 779.22                 | 666.15                  | 113.07                    | 6.891              |           |
| 5,880.00                   | 4,070.00              | 5,844.36              | 4,068.90              | 57.84            | 57.32         | -89.919               | 269.34                              | 2,282.66     | 779.21                 | 664.61                  | 114.59                    | 6.800              |           |
| 5,910.00                   | 4,070.00              | 5,874.36              | 4,068.90              | 58.60            | 58.08         | -89.919               | 269.42                              | 2,312.66     | 779.20                 | 663.08                  | 116.12                    | 6.710              |           |
| 5,940.00                   | 4,070.00              | 5,904.36              | 4,068.90              | 59.35            | 58.84         | -89.919               | 269.49                              | 2,342.65     | 779.18                 | 661.54                  | 117.64                    | 6.623              |           |
| 5,970.00                   | 4,070.00              | 5,934.36              | 4,068.90              | 60.11            | 59.61         | -89.919               | 269.57                              | 2,372.65     | 779.17                 | 660.00                  | 119.17                    | 6.538              |           |
| 6,000.00                   | 4,070.00              | 5,964.36              | 4,068.90              | 60.86            | 60.37         | -89.919               | 269.64                              | 2,402.65     | 779.16                 | 658.46                  | 120.70                    | 6.456              |           |
| 6,030.00                   | 4,070.00              | 6,005.64              | 4,068.90              | 61.62            | 61.42         | -89.919               | 269.71                              | 2,432.65     | 779.15                 | 656.63                  | 122.51                    | 6.360              |           |
| 6,060.00                   | 4,070.00              | 6,024.36              | 4,068.90              | 62.38            | 61.90         | -89.919               | 269.79                              | 2,462.65     | 779.13                 | 655.38                  | 123.76                    | 6.296              |           |
| 6,090.00                   | 4,070.00              | 6,054.36              | 4,068.90              | 63.14            | 62.66         | -89.919               | 269.86                              | 2,492.65     | 779.12                 | 653.83                  | 125.29                    | 6.219              |           |
| 6,120.00                   | 4,070.00              | 6,084.36              | 4,068.90              | 63.90            | 63.43         | -89.919               | 269.94                              | 2,522.65     | 779.11                 | 652.29                  | 126.82                    | 6.143              |           |
| 6,150.00                   | 4,070.00              | 6,114.36              | 4,068.90              | 64.66            | 64.19         | -89.919               | 270.01                              | 2,552.65     | 779.09                 | 650.74                  | 128.36                    | 6.070              |           |
| 6,180.00                   | 4,070.00              | 6,144.36              | 4,068.90              | 65.42            | 64.96         | -89.919               | 270.08                              | 2,582.65     | 779.08                 | 649.19                  | 129.89                    | 5.998              |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |                                     |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|-------------------------------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |                                     |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |                                     |                        |                         |                           |                    | Warning   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | Offset Wellbore Centre +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 6,210.00                   | 4,070.00              | 6,174.36              | 4,068.90              | 66.19            | 65.73         | -89.919               | 270.16                              | 2,612.65                            | 779.07                 | 647.64                  | 131.43                    | 5.928              |           |
| 6,240.00                   | 4,070.00              | 6,204.36              | 4,068.90              | 66.95            | 66.50         | -89.919               | 270.23                              | 2,642.65                            | 779.06                 | 646.09                  | 132.97                    | 5.859              |           |
| 6,270.00                   | 4,070.00              | 6,234.36              | 4,068.90              | 67.71            | 67.27         | -89.919               | 270.30                              | 2,672.65                            | 779.04                 | 644.54                  | 134.50                    | 5.792              |           |
| 6,300.00                   | 4,070.00              | 6,264.36              | 4,068.90              | 68.48            | 68.03         | -89.919               | 270.38                              | 2,702.65                            | 779.03                 | 642.99                  | 136.04                    | 5.726              |           |
| 6,330.00                   | 4,070.00              | 6,305.64              | 4,068.90              | 69.24            | 69.09         | -89.919               | 270.45                              | 2,732.65                            | 779.02                 | 641.14                  | 137.87                    | 5.650              |           |
| 6,360.00                   | 4,070.00              | 6,324.36              | 4,068.90              | 70.01            | 69.57         | -89.919               | 270.53                              | 2,762.65                            | 779.01                 | 639.88                  | 139.13                    | 5.599              |           |
| 6,390.00                   | 4,070.00              | 6,354.36              | 4,068.90              | 70.78            | 70.35         | -89.919               | 270.60                              | 2,792.65                            | 778.99                 | 638.32                  | 140.67                    | 5.538              |           |
| 6,420.00                   | 4,070.00              | 6,384.36              | 4,068.90              | 71.54            | 71.12         | -89.919               | 270.67                              | 2,822.65                            | 778.98                 | 636.77                  | 142.21                    | 5.478              |           |
| 6,450.00                   | 4,070.00              | 6,414.36              | 4,068.90              | 72.31            | 71.89         | -89.919               | 270.75                              | 2,852.65                            | 778.97                 | 635.21                  | 143.76                    | 5.419              |           |
| 6,480.00                   | 4,070.00              | 6,444.36              | 4,068.90              | 73.08            | 72.66         | -89.919               | 270.82                              | 2,882.65                            | 778.96                 | 633.65                  | 145.30                    | 5.361              |           |
| 6,510.00                   | 4,070.00              | 6,474.36              | 4,068.90              | 73.85            | 73.43         | -89.919               | 270.90                              | 2,912.65                            | 778.94                 | 632.10                  | 146.85                    | 5.304              |           |
| 6,540.00                   | 4,070.00              | 6,504.36              | 4,068.90              | 74.62            | 74.21         | -89.919               | 270.97                              | 2,942.65                            | 778.93                 | 630.54                  | 148.39                    | 5.249              |           |
| 6,570.00                   | 4,070.00              | 6,534.36              | 4,068.90              | 75.39            | 74.98         | -89.919               | 271.04                              | 2,972.65                            | 778.92                 | 628.98                  | 149.94                    | 5.195              |           |
| 6,600.00                   | 4,070.00              | 6,564.36              | 4,068.90              | 76.15            | 75.75         | -89.919               | 271.12                              | 3,002.65                            | 778.90                 | 627.41                  | 151.49                    | 5.142              |           |
| 6,630.00                   | 4,070.00              | 6,605.64              | 4,068.90              | 76.93            | 76.82         | -89.919               | 271.19                              | 3,032.65                            | 778.89                 | 625.56                  | 153.33                    | 5.080              |           |
| 6,660.00                   | 4,070.00              | 6,624.36              | 4,068.90              | 77.70            | 77.30         | -89.919               | 271.27                              | 3,062.65                            | 778.88                 | 624.29                  | 154.59                    | 5.038              |           |
| 6,690.00                   | 4,070.00              | 6,654.36              | 4,068.90              | 78.47            | 78.08         | -89.919               | 271.34                              | 3,092.65                            | 778.87                 | 622.73                  | 156.14                    | 4.988              |           |
| 6,720.00                   | 4,070.00              | 6,684.36              | 4,068.90              | 79.24            | 78.85         | -89.919               | 271.41                              | 3,122.65                            | 778.85                 | 621.16                  | 157.69                    | 4.939              |           |
| 6,750.00                   | 4,070.00              | 6,714.36              | 4,068.90              | 80.01            | 79.63         | -89.919               | 271.49                              | 3,152.65                            | 778.84                 | 619.60                  | 159.24                    | 4.891              |           |
| 6,780.00                   | 4,070.00              | 6,744.36              | 4,068.90              | 80.78            | 80.40         | -89.919               | 271.56                              | 3,182.65                            | 778.83                 | 618.03                  | 160.79                    | 4.844              |           |
| 6,810.00                   | 4,070.00              | 6,774.36              | 4,068.90              | 81.56            | 81.18         | -89.919               | 271.63                              | 3,212.65                            | 778.82                 | 616.47                  | 162.35                    | 4.797              |           |
| 6,840.00                   | 4,070.00              | 6,804.36              | 4,068.90              | 82.33            | 81.95         | -89.919               | 271.71                              | 3,242.65                            | 778.80                 | 614.90                  | 163.90                    | 4.752              |           |
| 6,870.00                   | 4,070.00              | 6,834.36              | 4,068.90              | 83.10            | 82.73         | -89.919               | 271.78                              | 3,272.65                            | 778.79                 | 613.34                  | 165.45                    | 4.707              |           |
| 6,900.00                   | 4,070.00              | 6,864.36              | 4,068.90              | 83.88            | 83.51         | -89.919               | 271.86                              | 3,302.65                            | 778.78                 | 611.77                  | 167.01                    | 4.663              |           |
| 6,930.00                   | 4,070.00              | 6,905.64              | 4,068.90              | 84.65            | 84.58         | -89.919               | 271.93                              | 3,332.65                            | 778.77                 | 609.91                  | 168.86                    | 4.612              |           |
| 6,960.00                   | 4,070.00              | 6,924.36              | 4,068.90              | 85.43            | 85.06         | -89.919               | 272.00                              | 3,362.65                            | 778.75                 | 608.63                  | 170.12                    | 4.578              |           |
| 6,990.00                   | 4,070.00              | 6,954.36              | 4,068.90              | 86.20            | 85.84         | -89.919               | 272.08                              | 3,392.65                            | 778.74                 | 607.06                  | 171.68                    | 4.536              |           |
| 7,020.00                   | 4,070.00              | 6,984.36              | 4,068.90              | 86.98            | 86.62         | -89.919               | 272.15                              | 3,422.65                            | 778.73                 | 605.50                  | 173.23                    | 4.495              |           |
| 7,050.00                   | 4,070.00              | 7,014.36              | 4,068.90              | 87.75            | 87.39         | -89.919               | 272.23                              | 3,452.65                            | 778.72                 | 603.93                  | 174.79                    | 4.455              |           |
| 7,080.00                   | 4,070.00              | 7,044.36              | 4,068.90              | 88.53            | 88.17         | -89.919               | 272.30                              | 3,482.65                            | 778.70                 | 602.36                  | 176.35                    | 4.416              |           |
| 7,110.00                   | 4,070.00              | 7,074.36              | 4,068.90              | 89.30            | 88.95         | -89.919               | 272.37                              | 3,512.65                            | 778.69                 | 600.79                  | 177.90                    | 4.377              |           |
| 7,140.00                   | 4,070.00              | 7,104.36              | 4,068.90              | 90.08            | 89.73         | -89.919               | 272.45                              | 3,542.65                            | 778.68                 | 599.21                  | 179.46                    | 4.339              |           |
| 7,170.00                   | 4,070.00              | 7,134.36              | 4,068.90              | 90.86            | 90.51         | -89.919               | 272.52                              | 3,572.65                            | 778.66                 | 597.64                  | 181.02                    | 4.301              |           |
| 7,200.00                   | 4,070.00              | 7,164.36              | 4,068.90              | 91.63            | 91.29         | -89.919               | 272.59                              | 3,602.65                            | 778.65                 | 596.07                  | 182.58                    | 4.265              |           |
| 7,230.00                   | 4,070.00              | 7,205.64              | 4,068.90              | 92.41            | 92.36         | -89.919               | 272.67                              | 3,632.65                            | 778.64                 | 594.21                  | 184.43                    | 4.222              |           |
| 7,260.00                   | 4,070.00              | 7,224.36              | 4,068.90              | 93.19            | 92.85         | -89.919               | 272.74                              | 3,662.65                            | 778.63                 | 592.93                  | 185.70                    | 4.193              |           |
| 7,290.00                   | 4,070.00              | 7,254.36              | 4,068.90              | 93.96            | 93.63         | -89.919               | 272.82                              | 3,692.65                            | 778.61                 | 591.35                  | 187.26                    | 4.158              |           |
| 7,320.00                   | 4,070.00              | 7,284.36              | 4,068.90              | 94.74            | 94.41         | -89.919               | 272.89                              | 3,722.65                            | 778.60                 | 589.78                  | 188.82                    | 4.123              |           |
| 7,350.00                   | 4,070.00              | 7,314.36              | 4,068.90              | 95.52            | 95.19         | -89.919               | 272.96                              | 3,752.65                            | 778.59                 | 588.21                  | 190.38                    | 4.090              |           |
| 7,380.00                   | 4,070.00              | 7,344.36              | 4,068.90              | 96.30            | 95.97         | -89.919               | 273.04                              | 3,782.65                            | 778.58                 | 586.63                  | 191.94                    | 4.056              |           |
| 7,410.00                   | 4,070.00              | 7,374.36              | 4,068.90              | 97.08            | 96.75         | -89.919               | 273.11                              | 3,812.65                            | 778.56                 | 585.06                  | 193.51                    | 4.023              |           |
| 7,440.00                   | 4,070.00              | 7,404.36              | 4,068.90              | 97.85            | 97.53         | -89.919               | 273.19                              | 3,842.65                            | 778.55                 | 583.48                  | 195.07                    | 3.991              |           |
| 7,470.00                   | 4,070.00              | 7,434.36              | 4,068.90              | 98.63            | 98.31         | -89.919               | 273.26                              | 3,872.65                            | 778.54                 | 581.91                  | 196.63                    | 3.959              |           |
| 7,500.00                   | 4,070.00              | 7,464.36              | 4,068.90              | 99.41            | 99.09         | -89.919               | 273.33                              | 3,902.65                            | 778.53                 | 580.33                  | 198.19                    | 3.928              |           |
| 7,530.00                   | 4,070.00              | 7,505.64              | 4,068.90              | 100.19           | 100.17        | -89.919               | 273.41                              | 3,932.65                            | 778.51                 | 578.46                  | 200.05                    | 3.892              |           |
| 7,560.00                   | 4,070.00              | 7,524.36              | 4,068.90              | 100.97           | 100.66        | -89.919               | 273.48                              | 3,962.65                            | 778.50                 | 577.18                  | 201.32                    | 3.867              |           |
| 7,590.00                   | 4,070.00              | 7,554.36              | 4,068.90              | 101.75           | 101.44        | -89.919               | 273.56                              | 3,992.65                            | 778.49                 | 575.60                  | 202.88                    | 3.837              |           |
| 7,620.00                   | 4,070.00              | 7,584.36              | 4,068.90              | 102.53           | 102.22        | -89.919               | 273.63                              | 4,022.65                            | 778.47                 | 574.03                  | 204.45                    | 3.808              |           |
| 7,650.00                   | 4,070.00              | 7,614.36              | 4,068.90              | 103.31           | 103.00        | -89.919               | 273.70                              | 4,052.65                            | 778.46                 | 572.45                  | 206.01                    | 3.779              |           |
| 7,680.00                   | 4,070.00              | 7,644.36              | 4,068.90              | 104.09           | 103.78        | -89.919               | 273.78                              | 4,082.65                            | 778.45                 | 570.87                  | 207.58                    | 3.750              |           |
| 7,710.00                   | 4,070.00              | 7,674.36              | 4,068.90              | 104.87           | 104.56        | -89.919               | 273.85                              | 4,112.65                            | 778.44                 | 569.29                  | 209.14                    | 3.722              |           |
| 7,740.00                   | 4,070.00              | 7,704.36              | 4,068.90              | 105.65           | 105.35        | -89.919               | 273.92                              | 4,142.65                            | 778.42                 | 567.72                  | 210.71                    | 3.694              |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  | Offset                | Semi Major Axis       |                       | Distance         |               |                       |                                     |              |                        |                         |                           |                    |           |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 7,770.00                   | 4,070.00              | 7,734.36              | 4,068.90              | 106.43           | 106.13        | -89.919               | 274.00                              | 4,172.65     | 778.41                 | 566.14                  | 212.27                    | 3.667              |           |
| 7,800.00                   | 4,070.00              | 7,764.36              | 4,068.90              | 107.21           | 106.91        | -89.919               | 274.07                              | 4,202.65     | 778.40                 | 564.56                  | 213.84                    | 3.640              |           |
| 7,830.00                   | 4,070.00              | 7,805.64              | 4,068.90              | 107.99           | 107.99        | -89.919               | 274.15                              | 4,232.65     | 778.39                 | 562.69                  | 215.70                    | 3.609              |           |
| 7,860.00                   | 4,070.00              | 7,824.36              | 4,068.90              | 108.78           | 108.48        | -89.919               | 274.22                              | 4,262.65     | 778.37                 | 561.40                  | 216.97                    | 3.587              |           |
| 7,890.00                   | 4,070.00              | 7,854.36              | 4,068.90              | 109.56           | 109.26        | -89.919               | 274.29                              | 4,292.65     | 778.36                 | 559.82                  | 218.54                    | 3.562              |           |
| 7,920.00                   | 4,070.00              | 7,884.36              | 4,068.90              | 110.34           | 110.04        | -89.919               | 274.37                              | 4,322.65     | 778.35                 | 558.24                  | 220.10                    | 3.536              |           |
| 7,950.00                   | 4,070.00              | 7,914.36              | 4,068.90              | 111.12           | 110.83        | -89.919               | 274.44                              | 4,352.65     | 778.34                 | 556.66                  | 221.67                    | 3.511              |           |
| 7,980.00                   | 4,070.00              | 7,944.36              | 4,068.90              | 111.90           | 111.61        | -89.919               | 274.52                              | 4,382.65     | 778.32                 | 555.09                  | 223.24                    | 3.487              |           |
| 8,010.00                   | 4,070.00              | 7,974.36              | 4,068.90              | 112.68           | 112.39        | -89.919               | 274.59                              | 4,412.65     | 778.31                 | 553.51                  | 224.81                    | 3.462              |           |
| 8,040.00                   | 4,070.00              | 8,004.36              | 4,068.90              | 113.47           | 113.18        | -89.919               | 274.66                              | 4,442.65     | 778.30                 | 551.92                  | 226.37                    | 3.438              |           |
| 8,070.00                   | 4,070.00              | 8,034.36              | 4,068.90              | 114.25           | 113.96        | -89.919               | 274.74                              | 4,472.65     | 778.29                 | 550.34                  | 227.94                    | 3.414              |           |
| 8,100.00                   | 4,070.00              | 8,064.36              | 4,068.90              | 115.03           | 114.75        | -89.919               | 274.81                              | 4,502.65     | 778.27                 | 548.76                  | 229.51                    | 3.391              |           |
| 8,130.00                   | 4,070.00              | 8,105.64              | 4,068.90              | 115.81           | 115.82        | -89.919               | 274.88                              | 4,532.65     | 778.26                 | 546.89                  | 231.37                    | 3.364              |           |
| 8,160.00                   | 4,070.00              | 8,124.36              | 4,068.90              | 116.59           | 116.31        | -89.919               | 274.96                              | 4,562.65     | 778.25                 | 545.60                  | 232.65                    | 3.345              |           |
| 8,190.00                   | 4,070.00              | 8,154.36              | 4,068.90              | 117.38           | 117.10        | -89.919               | 275.03                              | 4,592.65     | 778.23                 | 544.02                  | 234.21                    | 3.323              |           |
| 8,220.00                   | 4,070.00              | 8,184.36              | 4,068.90              | 118.16           | 117.88        | -89.919               | 275.11                              | 4,622.65     | 778.22                 | 542.44                  | 235.78                    | 3.301              |           |
| 8,250.00                   | 4,070.00              | 8,214.36              | 4,068.90              | 118.94           | 118.67        | -89.919               | 275.18                              | 4,652.65     | 778.21                 | 540.86                  | 237.35                    | 3.279              |           |
| 8,280.00                   | 4,070.00              | 8,244.36              | 4,068.90              | 119.73           | 119.45        | -89.919               | 275.25                              | 4,682.65     | 778.20                 | 539.28                  | 238.92                    | 3.257              |           |
| 8,310.00                   | 4,070.00              | 8,274.36              | 4,068.90              | 120.51           | 120.23        | -89.919               | 275.33                              | 4,712.65     | 778.18                 | 537.69                  | 240.49                    | 3.236              |           |
| 8,340.00                   | 4,070.00              | 8,304.36              | 4,068.90              | 121.29           | 121.02        | -89.919               | 275.40                              | 4,742.65     | 778.17                 | 536.11                  | 242.06                    | 3.215              |           |
| 8,370.00                   | 4,070.00              | 8,334.36              | 4,068.90              | 122.08           | 121.80        | -89.919               | 275.48                              | 4,772.65     | 778.16                 | 534.53                  | 243.63                    | 3.194              |           |
| 8,400.00                   | 4,070.00              | 8,364.36              | 4,068.90              | 122.86           | 122.59        | -89.919               | 275.55                              | 4,802.65     | 778.15                 | 532.95                  | 245.20                    | 3.174              |           |
| 8,430.00                   | 4,070.00              | 8,405.64              | 4,068.90              | 123.64           | 123.67        | -89.919               | 275.62                              | 4,832.65     | 778.13                 | 531.07                  | 247.06                    | 3.150              |           |
| 8,460.00                   | 4,070.00              | 8,424.36              | 4,068.90              | 124.43           | 124.16        | -89.919               | 275.70                              | 4,862.65     | 778.12                 | 529.78                  | 248.34                    | 3.133              |           |
| 8,490.00                   | 4,070.00              | 8,454.36              | 4,068.90              | 125.21           | 124.94        | -89.919               | 275.77                              | 4,892.65     | 778.11                 | 528.20                  | 249.91                    | 3.114              |           |
| 8,520.00                   | 4,070.00              | 8,484.36              | 4,068.90              | 125.99           | 125.73        | -89.919               | 275.85                              | 4,922.65     | 778.10                 | 526.61                  | 251.48                    | 3.094              |           |
| 8,550.00                   | 4,070.00              | 8,514.36              | 4,068.90              | 126.78           | 126.51        | -89.919               | 275.92                              | 4,952.65     | 778.08                 | 525.03                  | 253.05                    | 3.075              |           |
| 8,580.00                   | 4,070.00              | 8,544.36              | 4,068.90              | 127.56           | 127.30        | -89.919               | 275.99                              | 4,982.65     | 778.07                 | 523.45                  | 254.62                    | 3.056              |           |
| 8,610.00                   | 4,070.00              | 8,574.36              | 4,068.90              | 128.35           | 128.08        | -89.919               | 276.07                              | 5,012.65     | 778.06                 | 521.86                  | 256.19                    | 3.037              |           |
| 8,640.00                   | 4,070.00              | 8,604.36              | 4,068.90              | 129.13           | 128.87        | -89.919               | 276.14                              | 5,042.65     | 778.04                 | 520.28                  | 257.76                    | 3.018              |           |
| 8,670.00                   | 4,070.00              | 8,634.36              | 4,068.90              | 129.91           | 129.66        | -89.919               | 276.21                              | 5,072.65     | 778.03                 | 518.70                  | 259.34                    | 3.000              |           |
| 8,700.00                   | 4,070.00              | 8,664.36              | 4,068.90              | 130.70           | 130.44        | -89.919               | 276.29                              | 5,102.65     | 778.02                 | 517.11                  | 260.91                    | 2.982              |           |
| 8,730.00                   | 4,070.00              | 8,705.64              | 4,068.90              | 131.48           | 131.52        | -89.919               | 276.36                              | 5,132.65     | 778.01                 | 515.23                  | 262.77                    | 2.961              |           |
| 8,760.00                   | 4,070.00              | 8,724.36              | 4,068.90              | 132.27           | 132.01        | -89.919               | 276.44                              | 5,162.65     | 777.99                 | 513.94                  | 264.05                    | 2.946              |           |
| 8,790.00                   | 4,070.00              | 8,754.36              | 4,068.90              | 133.05           | 132.80        | -89.919               | 276.51                              | 5,192.65     | 777.98                 | 512.36                  | 265.62                    | 2.929              |           |
| 8,820.00                   | 4,070.00              | 8,784.36              | 4,068.90              | 133.84           | 133.58        | -89.919               | 276.58                              | 5,222.65     | 777.97                 | 510.77                  | 267.19                    | 2.912              |           |
| 8,850.00                   | 4,070.00              | 8,814.36              | 4,068.90              | 134.62           | 134.37        | -89.919               | 276.66                              | 5,252.65     | 777.96                 | 509.19                  | 268.77                    | 2.895              |           |
| 8,880.00                   | 4,070.00              | 8,844.36              | 4,068.90              | 135.41           | 135.16        | -89.919               | 276.73                              | 5,282.65     | 777.94                 | 507.61                  | 270.34                    | 2.878              |           |
| 8,910.00                   | 4,070.00              | 8,874.36              | 4,068.90              | 136.19           | 135.94        | -89.919               | 276.81                              | 5,312.65     | 777.93                 | 506.02                  | 271.91                    | 2.861              |           |
| 8,940.00                   | 4,070.00              | 8,904.36              | 4,068.90              | 136.98           | 136.73        | -89.919               | 276.88                              | 5,342.65     | 777.92                 | 504.44                  | 273.48                    | 2.844              |           |
| 8,970.00                   | 4,070.00              | 8,934.36              | 4,068.90              | 137.76           | 137.51        | -89.919               | 276.95                              | 5,372.65     | 777.91                 | 502.85                  | 275.06                    | 2.828              |           |
| 9,000.00                   | 4,070.00              | 8,964.36              | 4,068.90              | 138.55           | 138.30        | -89.919               | 277.03                              | 5,402.65     | 777.89                 | 501.26                  | 276.63                    | 2.812              |           |
| 9,030.00                   | 4,070.00              | 9,005.64              | 4,068.90              | 139.33           | 139.38        | -89.919               | 277.10                              | 5,432.65     | 777.88                 | 499.38                  | 278.50                    | 2.793              |           |
| 9,060.00                   | 4,070.00              | 9,024.36              | 4,068.90              | 140.12           | 139.87        | -89.919               | 277.17                              | 5,462.65     | 777.87                 | 498.09                  | 279.77                    | 2.780              |           |
| 9,090.00                   | 4,070.00              | 9,054.36              | 4,068.90              | 140.90           | 140.66        | -89.919               | 277.25                              | 5,492.65     | 777.86                 | 496.51                  | 281.35                    | 2.765              |           |
| 9,120.00                   | 4,070.00              | 9,084.36              | 4,068.90              | 141.69           | 141.45        | -89.919               | 277.32                              | 5,522.65     | 777.84                 | 494.92                  | 282.92                    | 2.749              |           |
| 9,150.00                   | 4,070.00              | 9,114.36              | 4,068.90              | 142.47           | 142.23        | -89.919               | 277.40                              | 5,552.64     | 777.83                 | 493.34                  | 284.49                    | 2.734              |           |
| 9,180.00                   | 4,070.00              | 9,144.36              | 4,068.90              | 143.26           | 143.02        | -89.919               | 277.47                              | 5,582.64     | 777.82                 | 491.75                  | 286.07                    | 2.719              |           |
| 9,191.76                   | 4,070.00              | 9,156.12              | 4,068.90              | 143.57           | 143.33        | -89.919               | 277.50                              | 5,594.40     | 777.81                 | 491.13                  | 286.68                    | 2.713 SF           |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                   |                    | Warning   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 240.00                     | 240.00                | 240.90                | 240.00                | 0.65             | 0.65          | 0.046                 | 25.00                               | 0.02         | 25.00                  | 23.70                   | 1.30                      | 19.165            |                    |           |
| 270.00                     | 270.00                | 270.90                | 270.00                | 0.76             | 0.76          | 0.046                 | 25.00                               | 0.02         | 25.00                  | 23.48                   | 1.52                      | 16.452            |                    |           |
| 300.00                     | 300.00                | 300.90                | 300.00                | 0.87             | 0.87          | 0.046                 | 25.00                               | 0.02         | 25.00                  | 23.27                   | 1.73                      | 14.413            |                    |           |
| 301.57                     | 301.57                | 302.48                | 301.58                | 0.87             | 0.87          | -151.680              | 25.00                               | 0.02         | 25.00                  | 23.25                   | 1.75                      | 14.323 CC         |                    |           |
| 330.00                     | 330.00                | 331.05                | 330.15                | 0.97             | 0.97          | -151.533              | 24.91                               | 0.16         | 25.05                  | 23.10                   | 1.94                      | 12.892            |                    |           |
| 360.00                     | 360.00                | 361.20                | 360.29                | 1.07             | 1.08          | -151.127              | 24.64                               | 0.56         | 25.19                  | 23.04                   | 2.15                      | 11.714 ES         |                    |           |
| 390.00                     | 389.99                | 391.34                | 390.42                | 1.18             | 1.18          | -150.473              | 24.19                               | 1.23         | 25.44                  | 23.08                   | 2.36                      | 10.789            |                    |           |
| 420.00                     | 419.96                | 421.48                | 420.54                | 1.28             | 1.29          | -149.585              | 23.56                               | 2.16         | 25.80                  | 23.24                   | 2.57                      | 10.057            |                    |           |
| 450.00                     | 449.93                | 451.61                | 450.64                | 1.38             | 1.39          | -148.485              | 22.76                               | 3.35         | 26.27                  | 23.50                   | 2.77                      | 9.476             |                    |           |
| 480.00                     | 479.88                | 481.74                | 480.72                | 1.49             | 1.50          | -147.198              | 21.78                               | 4.80         | 26.86                  | 23.88                   | 2.98                      | 9.016             |                    |           |
| 510.00                     | 509.81                | 511.86                | 510.77                | 1.59             | 1.60          | -145.752              | 20.63                               | 6.52         | 27.57                  | 24.38                   | 3.19                      | 8.648             |                    |           |
| 540.00                     | 539.72                | 541.97                | 540.79                | 1.70             | 1.71          | -144.178              | 19.30                               | 8.50         | 28.42                  | 25.01                   | 3.40                      | 8.352             |                    |           |
| 570.00                     | 569.60                | 571.97                | 570.67                | 1.81             | 1.82          | -142.719              | 17.87                               | 10.63        | 29.45                  | 25.83                   | 3.62                      | 8.139             |                    |           |
| 600.00                     | 599.45                | 601.93                | 600.52                | 1.92             | 1.93          | -141.718              | 16.43                               | 12.76        | 30.74                  | 26.90                   | 3.84                      | 8.014             |                    |           |
| 630.00                     | 629.27                | 631.89                | 630.37                | 2.03             | 2.04          | -141.145              | 15.00                               | 14.89        | 32.28                  | 28.22                   | 4.06                      | 7.956             |                    |           |
| 660.00                     | 659.05                | 661.84                | 660.21                | 2.15             | 2.16          | -140.955              | 13.56                               | 17.03        | 34.07                  | 29.79                   | 4.28                      | 7.962             |                    |           |
| 690.00                     | 688.80                | 691.77                | 690.03                | 2.27             | 2.27          | -141.094              | 12.13                               | 19.16        | 36.11                  | 31.60                   | 4.50                      | 8.021             |                    |           |
| 720.00                     | 718.50                | 721.68                | 719.83                | 2.39             | 2.38          | -141.507              | 10.70                               | 21.29        | 38.38                  | 33.66                   | 4.73                      | 8.120             |                    |           |
| 750.00                     | 748.15                | 751.57                | 749.61                | 2.51             | 2.49          | -142.140              | 9.27                                | 23.41        | 40.91                  | 35.96                   | 4.95                      | 8.260             |                    |           |
| 780.00                     | 777.76                | 781.43                | 779.36                | 2.64             | 2.61          | -142.943              | 7.84                                | 25.54        | 43.69                  | 38.51                   | 5.18                      | 8.438             |                    |           |
| 810.00                     | 807.31                | 811.27                | 809.09                | 2.77             | 2.72          | -143.873              | 6.41                                | 27.66        | 46.74                  | 41.33                   | 5.41                      | 8.645             |                    |           |
| 840.00                     | 836.83                | 841.09                | 838.80                | 2.90             | 2.84          | -144.830              | 4.98                                | 29.79        | 49.92                  | 44.29                   | 5.63                      | 8.863             |                    |           |
| 870.00                     | 866.36                | 870.91                | 868.51                | 3.03             | 2.95          | -145.673              | 3.56                                | 31.91        | 53.12                  | 47.27                   | 5.86                      | 9.067             |                    |           |
| 900.00                     | 895.88                | 900.73                | 898.22                | 3.17             | 3.07          | -146.420              | 2.13                                | 34.03        | 56.34                  | 50.25                   | 6.08                      | 9.259             |                    |           |
| 930.00                     | 925.41                | 930.55                | 927.93                | 3.30             | 3.18          | -147.086              | 0.70                                | 36.15        | 59.55                  | 53.24                   | 6.31                      | 9.435             |                    |           |
| 960.00                     | 954.93                | 960.37                | 957.64                | 3.44             | 3.30          | -147.684              | -0.73                               | 38.28        | 62.78                  | 56.24                   | 6.54                      | 9.601             |                    |           |
| 990.00                     | 984.46                | 1,009.81              | 987.35                | 3.58             | 3.49          | -148.224              | -2.15                               | 40.40        | 66.01                  | 59.17                   | 6.84                      | 9.651             |                    |           |
| 1,020.00                   | 1,013.98              | 1,020.01              | 1,017.06              | 3.72             | 3.53          | -148.713              | -3.58                               | 42.52        | 69.25                  | 62.26                   | 6.99                      | 9.903             |                    |           |
| 1,050.00                   | 1,043.51              | 1,049.82              | 1,046.76              | 3.86             | 3.64          | -149.158              | -5.01                               | 44.65        | 72.49                  | 65.27                   | 7.22                      | 10.041            |                    |           |
| 1,080.00                   | 1,073.03              | 1,079.64              | 1,076.47              | 4.00             | 3.76          | -149.565              | -6.44                               | 46.77        | 75.74                  | 68.29                   | 7.45                      | 10.169            |                    |           |
| 1,110.00                   | 1,102.55              | 1,109.46              | 1,106.18              | 4.14             | 3.87          | -149.939              | -7.86                               | 48.89        | 78.99                  | 71.31                   | 7.68                      | 10.290            |                    |           |
| 1,140.00                   | 1,132.08              | 1,139.28              | 1,135.89              | 4.28             | 3.99          | -150.283              | -9.29                               | 51.01        | 82.24                  | 74.34                   | 7.90                      | 10.404            |                    |           |
| 1,170.00                   | 1,161.60              | 1,169.10              | 1,165.60              | 4.42             | 4.10          | -150.601              | -10.72                              | 53.14        | 85.50                  | 77.36                   | 8.13                      | 10.512            |                    |           |
| 1,200.00                   | 1,191.13              | 1,201.08              | 1,195.31              | 4.56             | 4.23          | -150.896              | -12.15                              | 55.26        | 88.75                  | 80.38                   | 8.37                      | 10.604            |                    |           |
| 1,230.00                   | 1,220.65              | 1,228.74              | 1,225.02              | 4.70             | 4.34          | -151.170              | -13.57                              | 57.38        | 92.01                  | 83.42                   | 8.59                      | 10.711            |                    |           |
| 1,260.00                   | 1,250.18              | 1,258.56              | 1,254.73              | 4.85             | 4.45          | -151.425              | -15.00                              | 59.50        | 95.27                  | 86.46                   | 8.82                      | 10.803            |                    |           |
| 1,290.00                   | 1,279.70              | 1,288.38              | 1,284.44              | 4.99             | 4.57          | -151.663              | -16.43                              | 61.63        | 98.54                  | 89.49                   | 9.05                      | 10.890            |                    |           |
| 1,320.00                   | 1,309.22              | 1,318.20              | 1,314.15              | 5.13             | 4.69          | -151.886              | -17.86                              | 63.75        | 101.80                 | 92.53                   | 9.28                      | 10.973            |                    |           |
| 1,350.00                   | 1,338.75              | 1,348.02              | 1,343.86              | 5.27             | 4.80          | -152.095              | -19.28                              | 65.87        | 105.07                 | 95.56                   | 9.51                      | 11.052            |                    |           |
| 1,380.00                   | 1,368.27              | 1,377.84              | 1,373.57              | 5.42             | 4.92          | -152.292              | -20.71                              | 68.00        | 108.34                 | 98.60                   | 9.74                      | 11.128            |                    |           |
| 1,410.00                   | 1,397.80              | 1,407.66              | 1,403.28              | 5.56             | 5.03          | -152.477              | -22.14                              | 70.12        | 111.61                 | 101.64                  | 9.97                      | 11.200            |                    |           |
| 1,440.00                   | 1,427.32              | 1,437.48              | 1,432.99              | 5.71             | 5.15          | -152.651              | -23.57                              | 72.24        | 114.88                 | 104.68                  | 10.19                     | 11.268            |                    |           |
| 1,470.00                   | 1,456.85              | 1,467.29              | 1,462.70              | 5.85             | 5.27          | -152.816              | -24.99                              | 74.36        | 118.15                 | 107.72                  | 10.42                     | 11.334            |                    |           |
| 1,500.00                   | 1,486.37              | 1,502.89              | 1,492.41              | 5.99             | 5.41          | -152.972              | -26.42                              | 76.49        | 121.42                 | 110.74                  | 10.68                     | 11.374            |                    |           |
| 1,530.00                   | 1,515.90              | 1,526.93              | 1,522.11              | 6.14             | 5.50          | -153.120              | -27.85                              | 78.61        | 124.69                 | 113.81                  | 10.88                     | 11.457            |                    |           |
| 1,560.00                   | 1,545.42              | 1,556.75              | 1,551.82              | 6.28             | 5.62          | -153.260              | -29.28                              | 80.73        | 127.97                 | 116.85                  | 11.11                     | 11.515            |                    |           |
| 1,590.00                   | 1,574.94              | 1,586.57              | 1,581.53              | 6.43             | 5.73          | -153.393              | -30.70                              | 82.85        | 131.24                 | 119.90                  | 11.34                     | 11.570            |                    |           |
| 1,620.00                   | 1,604.47              | 1,616.39              | 1,611.24              | 6.57             | 5.85          | -153.520              | -32.13                              | 84.98        | 134.52                 | 122.94                  | 11.57                     | 11.623            |                    |           |
| 1,650.00                   | 1,633.99              | 1,646.21              | 1,640.95              | 6.72             | 5.97          | -153.640              | -33.56                              | 87.10        | 137.79                 | 125.99                  | 11.80                     | 11.675            |                    |           |
| 1,680.00                   | 1,663.52              | 1,676.03              | 1,670.66              | 6.86             | 6.08          | -153.755              | -34.99                              | 89.22        | 141.07                 | 129.04                  | 12.03                     | 11.724            |                    |           |
| 1,710.00                   | 1,693.04              | 1,705.85              | 1,700.37              | 7.01             | 6.20          | -153.865              | -36.41                              | 91.35        | 144.34                 | 132.08                  | 12.26                     | 11.771            |                    |           |
| 1,740.00                   | 1,722.57              | 1,735.67              | 1,730.08              | 7.15             | 6.32          | -153.970              | -37.84                              | 93.47        | 147.62                 | 135.13                  | 12.49                     | 11.817            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design OZZY FED COM 18C - 002H - Wellbore #1 - Plan #2 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Site Error: | 0.00 usft |
|---------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|-------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF                                    |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           |                   | Offset Well Error: | 0.00 usft |
| Reference                                                     | Offset                | Semi Major Axis       |                       | Distance         |               | Warning               |                                     |              |                        |                         |                           |                   |                    |           |
| Measured Depth (usft)                                         | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor |                    |           |
| 1,770.00                                                      | 1,752.09              | 1,765.49              | 1,759.79              | 7.30             | 6.43          | -154.071              | -39.27                              | 95.59        | 150.90                 | 138.18                  | 12.72                     | 11.860            |                    |           |
| 1,800.00                                                      | 1,781.61              | 1,804.69              | 1,789.50              | 7.44             | 6.59          | -154.167              | -40.70                              | 97.71        | 154.18                 | 141.19                  | 12.99                     | 11.870            |                    |           |
| 1,830.00                                                      | 1,811.14              | 1,825.13              | 1,819.21              | 7.59             | 6.67          | -154.259              | -42.12                              | 99.84        | 157.46                 | 144.27                  | 13.18                     | 11.944            |                    |           |
| 1,860.00                                                      | 1,840.66              | 1,854.94              | 1,848.92              | 7.73             | 6.78          | -154.347              | -43.55                              | 101.96       | 160.74                 | 147.32                  | 13.41                     | 11.983            |                    |           |
| 1,890.00                                                      | 1,870.19              | 1,884.76              | 1,878.63              | 7.88             | 6.90          | -154.432              | -44.98                              | 104.08       | 164.01                 | 150.37                  | 13.64                     | 12.021            |                    |           |
| 1,920.00                                                      | 1,899.71              | 1,914.58              | 1,908.34              | 8.03             | 7.02          | -154.514              | -46.41                              | 106.20       | 167.29                 | 153.42                  | 13.87                     | 12.058            |                    |           |
| 1,950.00                                                      | 1,929.24              | 1,944.40              | 1,938.05              | 8.17             | 7.13          | -154.592              | -47.83                              | 108.33       | 170.57                 | 156.47                  | 14.10                     | 12.094            |                    |           |
| 1,980.00                                                      | 1,958.76              | 1,974.22              | 1,967.75              | 8.32             | 7.25          | -154.667              | -49.26                              | 110.45       | 173.85                 | 159.52                  | 14.33                     | 12.128            |                    |           |
| 2,010.00                                                      | 1,988.29              | 2,004.04              | 1,997.46              | 8.46             | 7.37          | -154.740              | -50.69                              | 112.57       | 177.13                 | 162.57                  | 14.57                     | 12.162            |                    |           |
| 2,040.00                                                      | 2,017.81              | 2,033.86              | 2,027.17              | 8.61             | 7.49          | -154.810              | -52.12                              | 114.70       | 180.42                 | 165.62                  | 14.80                     | 12.194            |                    |           |
| 2,070.00                                                      | 2,047.33              | 2,063.68              | 2,056.88              | 8.76             | 7.60          | -154.877              | -53.54                              | 116.82       | 183.70                 | 168.67                  | 15.03                     | 12.225            |                    |           |
| 2,100.00                                                      | 2,076.86              | 2,106.50              | 2,086.59              | 8.90             | 7.77          | -154.943              | -54.97                              | 118.94       | 186.98                 | 171.67                  | 15.31                     | 12.216            |                    |           |
| 2,130.00                                                      | 2,106.38              | 2,123.32              | 2,116.30              | 9.05             | 7.84          | -155.005              | -56.40                              | 121.06       | 190.26                 | 174.77                  | 15.49                     | 12.285            |                    |           |
| 2,160.00                                                      | 2,135.91              | 2,153.14              | 2,146.01              | 9.19             | 7.95          | -155.066              | -57.83                              | 123.19       | 193.54                 | 177.82                  | 15.72                     | 12.314            |                    |           |
| 2,190.00                                                      | 2,165.43              | 2,182.96              | 2,175.72              | 9.34             | 8.07          | -155.125              | -59.25                              | 125.31       | 196.82                 | 180.88                  | 15.95                     | 12.342            |                    |           |
| 2,220.00                                                      | 2,194.96              | 2,212.78              | 2,205.43              | 9.49             | 8.19          | -155.182              | -60.68                              | 127.43       | 200.11                 | 183.93                  | 16.18                     | 12.369            |                    |           |
| 2,250.00                                                      | 2,224.48              | 2,242.60              | 2,235.14              | 9.63             | 8.30          | -155.237              | -62.11                              | 129.56       | 203.39                 | 186.98                  | 16.41                     | 12.395            |                    |           |
| 2,280.00                                                      | 2,254.00              | 2,272.41              | 2,264.85              | 9.78             | 8.42          | -155.290              | -63.54                              | 131.68       | 206.67                 | 190.03                  | 16.64                     | 12.420            |                    |           |
| 2,310.00                                                      | 2,283.53              | 2,302.23              | 2,294.56              | 9.93             | 8.54          | -155.341              | -64.96                              | 133.80       | 209.95                 | 193.08                  | 16.87                     | 12.445            |                    |           |
| 2,340.00                                                      | 2,313.05              | 2,332.05              | 2,324.27              | 10.07            | 8.66          | -155.391              | -66.39                              | 135.92       | 213.24                 | 196.14                  | 17.10                     | 12.469            |                    |           |
| 2,370.00                                                      | 2,342.58              | 2,361.87              | 2,353.98              | 10.22            | 8.77          | -155.440              | -67.82                              | 138.05       | 216.52                 | 199.19                  | 17.33                     | 12.493            |                    |           |
| 2,400.00                                                      | 2,372.10              | 2,408.31              | 2,383.69              | 10.36            | 8.95          | -155.487              | -69.25                              | 140.17       | 219.80                 | 202.18                  | 17.63                     | 12.471            |                    |           |
| 2,430.00                                                      | 2,401.63              | 2,421.51              | 2,413.39              | 10.51            | 9.01          | -155.532              | -70.67                              | 142.29       | 223.09                 | 205.29                  | 17.79                     | 12.538            |                    |           |
| 2,460.00                                                      | 2,431.15              | 2,451.33              | 2,443.10              | 10.66            | 9.12          | -155.577              | -72.10                              | 144.41       | 226.37                 | 208.35                  | 18.02                     | 12.560            |                    |           |
| 2,490.00                                                      | 2,460.68              | 2,481.15              | 2,472.81              | 10.80            | 9.24          | -155.620              | -73.53                              | 146.54       | 229.65                 | 211.40                  | 18.25                     | 12.581            |                    |           |
| 2,520.00                                                      | 2,490.20              | 2,510.97              | 2,502.52              | 10.95            | 9.36          | -155.662              | -74.96                              | 148.66       | 232.94                 | 214.45                  | 18.49                     | 12.601            |                    |           |
| 2,550.00                                                      | 2,519.72              | 2,540.79              | 2,532.23              | 11.10            | 9.48          | -155.702              | -76.38                              | 150.78       | 236.22                 | 217.50                  | 18.72                     | 12.621            |                    |           |
| 2,580.00                                                      | 2,549.25              | 2,570.61              | 2,561.94              | 11.24            | 9.59          | -155.742              | -77.81                              | 152.91       | 239.50                 | 220.56                  | 18.95                     | 12.641            |                    |           |
| 2,610.00                                                      | 2,578.77              | 2,600.43              | 2,591.65              | 11.39            | 9.71          | -155.780              | -79.24                              | 155.03       | 242.79                 | 223.61                  | 19.18                     | 12.660            |                    |           |
| 2,640.00                                                      | 2,608.30              | 2,630.25              | 2,621.36              | 11.54            | 9.83          | -155.818              | -80.67                              | 157.15       | 246.07                 | 226.66                  | 19.41                     | 12.679            |                    |           |
| 2,670.00                                                      | 2,637.82              | 2,660.07              | 2,651.07              | 11.68            | 9.94          | -155.854              | -82.09                              | 159.27       | 249.36                 | 229.72                  | 19.64                     | 12.697            |                    |           |
| 2,700.00                                                      | 2,667.35              | 2,689.88              | 2,680.78              | 11.83            | 10.06         | -155.890              | -83.52                              | 161.40       | 252.64                 | 232.77                  | 19.87                     | 12.715            |                    |           |
| 2,730.00                                                      | 2,696.87              | 2,719.70              | 2,710.49              | 11.98            | 10.18         | -155.924              | -84.95                              | 163.52       | 255.93                 | 235.83                  | 20.10                     | 12.732            |                    |           |
| 2,760.00                                                      | 2,726.39              | 2,749.52              | 2,740.20              | 12.12            | 10.30         | -155.958              | -86.38                              | 165.64       | 259.21                 | 238.88                  | 20.33                     | 12.749            |                    |           |
| 2,790.00                                                      | 2,755.92              | 2,779.34              | 2,769.91              | 12.27            | 10.41         | -155.991              | -87.80                              | 167.76       | 262.49                 | 241.93                  | 20.56                     | 12.766            |                    |           |
| 2,820.00                                                      | 2,785.44              | 2,809.16              | 2,799.62              | 12.42            | 10.53         | -156.023              | -89.23                              | 169.89       | 265.78                 | 244.99                  | 20.79                     | 12.782            |                    |           |
| 2,850.00                                                      | 2,814.97              | 2,838.98              | 2,829.33              | 12.56            | 10.65         | -156.054              | -90.66                              | 172.01       | 269.06                 | 248.04                  | 21.02                     | 12.798            |                    |           |
| 2,880.00                                                      | 2,844.49              | 2,868.80              | 2,859.04              | 12.71            | 10.76         | -156.085              | -92.09                              | 174.13       | 272.35                 | 251.09                  | 21.25                     | 12.814            |                    |           |
| 2,910.00                                                      | 2,874.02              | 2,901.38              | 2,888.74              | 12.86            | 10.89         | -156.114              | -93.51                              | 176.26       | 275.63                 | 254.14                  | 21.50                     | 12.822            |                    |           |
| 2,940.00                                                      | 2,903.54              | 2,928.44              | 2,918.45              | 13.00            | 11.00         | -156.144              | -94.94                              | 178.38       | 278.92                 | 257.20                  | 21.72                     | 12.844            |                    |           |
| 2,970.00                                                      | 2,933.07              | 2,958.26              | 2,948.16              | 13.15            | 11.12         | -156.172              | -96.37                              | 180.50       | 282.20                 | 260.26                  | 21.95                     | 12.858            |                    |           |
| 3,000.00                                                      | 2,962.59              | 2,988.08              | 2,977.87              | 13.30            | 11.23         | -156.200              | -97.80                              | 182.62       | 285.49                 | 263.31                  | 22.18                     | 12.872            |                    |           |
| 3,030.00                                                      | 2,992.11              | 3,017.90              | 3,007.58              | 13.45            | 11.35         | -156.227              | -99.22                              | 184.75       | 288.77                 | 266.37                  | 22.41                     | 12.886            |                    |           |
| 3,060.00                                                      | 3,021.64              | 3,047.72              | 3,037.29              | 13.59            | 11.47         | -156.253              | -100.65                             | 186.87       | 292.06                 | 269.42                  | 22.64                     | 12.900            |                    |           |
| 3,090.00                                                      | 3,051.16              | 3,077.54              | 3,067.00              | 13.74            | 11.58         | -156.279              | -102.08                             | 188.99       | 295.35                 | 272.47                  | 22.87                     | 12.913            |                    |           |
| 3,120.00                                                      | 3,080.69              | 3,107.35              | 3,096.71              | 13.89            | 11.70         | -156.305              | -103.51                             | 191.11       | 298.63                 | 275.53                  | 23.10                     | 12.927            |                    |           |
| 3,150.00                                                      | 3,110.21              | 3,137.17              | 3,126.42              | 14.03            | 11.82         | -156.329              | -104.93                             | 193.24       | 301.92                 | 278.58                  | 23.33                     | 12.939            |                    |           |
| 3,180.00                                                      | 3,139.74              | 3,166.99              | 3,156.13              | 14.18            | 11.94         | -156.354              | -106.36                             | 195.36       | 305.20                 | 281.64                  | 23.56                     | 12.952            |                    |           |
| 3,210.00                                                      | 3,169.26              | 3,203.19              | 3,185.84              | 14.33            | 12.08         | -156.378              | -107.79                             | 197.48       | 308.49                 | 284.67                  | 23.82                     | 12.951            |                    |           |
| 3,240.00                                                      | 3,198.78              | 3,226.63              | 3,215.55              | 14.47            | 12.17         | -156.401              | -109.22                             | 199.61       | 311.77                 | 287.75                  | 24.03                     | 12.976            |                    |           |
| 3,270.00                                                      | 3,228.31              | 3,256.45              | 3,245.26              | 14.62            | 12.29         | -156.424              | -110.64                             | 201.73       | 315.06                 | 290.80                  | 24.26                     | 12.988            |                    |           |
| 3,300.00                                                      | 3,257.83              | 3,286.27              | 3,274.97              | 14.77            | 12.40         | -156.446              | -112.07                             | 203.85       | 318.34                 | 293.86                  | 24.49                     | 13.000            |                    |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                    | Warning   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 3,330.00                   | 3,287.36              | 3,316.09              | 3,304.68              | 14.91            | 12.52         | -156.468              | -113.50                             | 205.97       | 321.63                 | 296.91                  | 24.72                     | 13.011             |           |
| 3,360.00                   | 3,316.88              | 3,345.91              | 3,334.38              | 15.06            | 12.64         | -156.489              | -114.93                             | 208.10       | 324.92                 | 299.97                  | 24.95                     | 13.023             |           |
| 3,390.00                   | 3,346.41              | 3,375.73              | 3,364.09              | 15.21            | 12.76         | -156.510              | -116.35                             | 210.22       | 328.20                 | 303.02                  | 25.18                     | 13.034             |           |
| 3,420.00                   | 3,375.93              | 3,405.55              | 3,393.80              | 15.36            | 12.87         | -156.531              | -117.78                             | 212.34       | 331.49                 | 306.08                  | 25.41                     | 13.045             |           |
| 3,450.00                   | 3,405.46              | 3,435.37              | 3,423.51              | 15.50            | 12.99         | -156.551              | -119.21                             | 214.47       | 334.77                 | 309.13                  | 25.64                     | 13.055             |           |
| 3,480.00                   | 3,434.98              | 3,465.19              | 3,453.22              | 15.65            | 13.11         | -156.571              | -120.63                             | 216.59       | 338.06                 | 312.19                  | 25.87                     | 13.066             |           |
| 3,510.00                   | 3,464.50              | 3,505.00              | 3,482.93              | 15.80            | 13.26         | -156.590              | -122.06                             | 218.71       | 341.35                 | 315.20                  | 26.14                     | 13.057             |           |
| 3,540.00                   | 3,494.03              | 3,524.82              | 3,512.64              | 15.94            | 13.34         | -156.609              | -123.49                             | 220.83       | 344.63                 | 318.30                  | 26.34                     | 13.086             |           |
| 3,570.00                   | 3,523.53              | 3,554.64              | 3,542.35              | 16.09            | 13.46         | -148.570              | -124.92                             | 222.96       | 347.91                 | 321.34                  | 26.57                     | 13.095             |           |
| 3,600.00                   | 3,552.90              | 3,584.41              | 3,572.01              | 16.25            | 13.58         | -136.921              | -126.34                             | 225.07       | 351.17                 | 324.38                  | 26.79                     | 13.108             |           |
| 3,630.00                   | 3,582.04              | 3,614.05              | 3,601.54              | 16.41            | 13.69         | -128.642              | -127.76                             | 227.18       | 354.41                 | 327.40                  | 27.01                     | 13.122             |           |
| 3,660.00                   | 3,610.86              | 3,643.48              | 3,630.86              | 16.57            | 13.81         | -122.875              | -129.17                             | 229.28       | 357.67                 | 330.45                  | 27.22                     | 13.142             |           |
| 3,690.00                   | 3,639.30              | 3,672.62              | 3,659.89              | 16.75            | 13.92         | -118.902              | -130.56                             | 231.35       | 360.99                 | 333.58                  | 27.42                     | 13.167             |           |
| 3,720.00                   | 3,667.26              | 3,701.38              | 3,688.55              | 16.92            | 14.04         | -116.217              | -131.94                             | 233.40       | 364.46                 | 336.85                  | 27.61                     | 13.202             |           |
| 3,750.00                   | 3,694.69              | 3,729.70              | 3,716.76              | 17.11            | 14.15         | -114.470              | -133.30                             | 235.42       | 368.15                 | 340.37                  | 27.79                     | 13.249             |           |
| 3,780.00                   | 3,721.50              | 3,757.49              | 3,744.45              | 17.30            | 14.26         | -113.417              | -134.63                             | 237.40       | 372.16                 | 344.20                  | 27.96                     | 13.309             |           |
| 3,810.00                   | 3,747.61              | 3,784.68              | 3,771.54              | 17.50            | 14.36         | -112.880              | -135.93                             | 239.33       | 376.58                 | 348.46                  | 28.13                     | 13.389             |           |
| 3,840.00                   | 3,772.96              | 3,811.19              | 3,797.95              | 17.70            | 14.47         | -112.724              | -137.20                             | 241.22       | 381.54                 | 353.26                  | 28.28                     | 13.490             |           |
| 3,870.00                   | 3,797.47              | 3,836.94              | 3,823.61              | 17.92            | 14.57         | -112.842              | -138.43                             | 243.05       | 387.14                 | 358.71                  | 28.43                     | 13.615             |           |
| 3,900.00                   | 3,821.09              | 3,861.88              | 3,848.46              | 18.14            | 14.67         | -113.145              | -139.63                             | 244.83       | 393.50                 | 364.93                  | 28.57                     | 13.771             |           |
| 3,930.00                   | 3,843.74              | 3,885.93              | 3,872.41              | 18.37            | 14.76         | -113.559              | -140.78                             | 246.54       | 400.72                 | 372.00                  | 28.72                     | 13.954             |           |
| 3,960.00                   | 3,865.36              | 3,909.02              | 3,895.42              | 18.62            | 14.85         | -114.020              | -141.88                             | 248.18       | 408.90                 | 380.05                  | 28.85                     | 14.172             |           |
| 3,990.00                   | 3,885.89              | 3,931.09              | 3,917.41              | 18.87            | 14.94         | -114.472              | -142.94                             | 249.75       | 418.12                 | 389.14                  | 28.99                     | 14.426             |           |
| 4,020.00                   | 3,905.28              | 3,952.09              | 3,938.33              | 19.14            | 15.02         | -114.865              | -143.94                             | 251.25       | 428.46                 | 399.35                  | 29.12                     | 14.715             |           |
| 4,050.00                   | 3,923.48              | 3,971.95              | 3,958.11              | 19.43            | 15.10         | -115.157              | -144.89                             | 252.66       | 439.97                 | 410.73                  | 29.24                     | 15.045             |           |
| 4,080.00                   | 3,940.43              | 3,990.61              | 3,976.71              | 19.73            | 15.17         | -115.307              | -145.79                             | 253.99       | 452.68                 | 423.31                  | 29.38                     | 15.410             |           |
| 4,110.00                   | 3,956.08              | 4,021.20              | 4,007.13              | 20.05            | 15.30         | -116.644              | -147.23                             | 256.83       | 466.40                 | 436.82                  | 29.58                     | 15.765             |           |
| 4,140.00                   | 3,971.08              | 4,038.41              | 4,023.87              | 20.39            | 15.46         | -120.246              | -148.90                             | 262.47       | 480.47                 | 450.64                  | 29.83                     | 16.106             |           |
| 4,170.00                   | 3,986.08              | 4,102.27              | 4,086.59              | 20.74            | 15.67         | -123.989              | -150.74                             | 272.15       | 494.36                 | 464.30                  | 30.06                     | 16.447             |           |
| 4,200.00                   | 4,001.08              | 4,154.06              | 4,135.92              | 21.10            | 15.94         | -127.749              | -152.73                             | 287.75       | 507.64                 | 477.41                  | 30.23                     | 16.791             |           |
| 4,230.00                   | 4,015.71              | 4,230.00              | 4,168.98              | 21.48            | 16.37         | -129.083              | -153.96                             | 301.44       | 520.05                 | 489.49                  | 30.56                     | 17.016             |           |
| 4,260.00                   | 4,028.76              | 4,282.51              | 4,250.52              | 21.89            | 16.74         | -132.991              | -156.69                             | 345.04       | 532.03                 | 501.70                  | 30.33                     | 17.541             |           |
| 4,290.00                   | 4,040.09              | 4,359.53              | 4,312.11              | 22.32            | 17.31         | -135.366              | -158.34                             | 391.15       | 543.18                 | 512.98                  | 30.20                     | 17.984             |           |
| 4,320.00                   | 4,049.65              | 4,446.59              | 4,373.60              | 22.77            | 18.10         | -137.561              | -159.49                             | 452.66       | 553.08                 | 523.05                  | 30.03                     | 18.420             |           |
| 4,350.00                   | 4,057.41              | 4,544.14              | 4,430.55              | 23.24            | 19.17         | -139.393              | -159.87                             | 531.71       | 561.19                 | 531.23                  | 29.97                     | 18.727             |           |
| 4,380.00                   | 4,063.33              | 4,579.09              | 4,448.09              | 23.74            | 19.60         | -139.545              | -159.80                             | 561.94       | 568.65                 | 538.38                  | 30.27                     | 18.784             |           |
| 4,410.00                   | 4,067.40              | 4,606.86              | 4,461.97              | 24.25            | 19.96         | -139.534              | -159.74                             | 585.99       | 577.54                 | 546.98                  | 30.56                     | 18.897             |           |
| 4,440.00                   | 4,069.59              | 4,633.86              | 4,475.47              | 24.78            | 20.33         | -139.474              | -159.68                             | 609.37       | 587.89                 | 557.08                  | 30.82                     | 19.077             |           |
| 4,470.00                   | 4,070.00              | 4,912.05              | 4,549.10              | 25.32            | 24.93         | -143.470              | -159.03                             | 873.71       | 596.23                 | 563.27                  | 32.96                     | 18.090             |           |
| 4,500.00                   | 4,070.00              | 4,942.05              | 4,549.10              | 25.87            | 25.51         | -143.471              | -158.95                             | 903.71       | 596.22                 | 562.53                  | 33.69                     | 17.695             |           |
| 4,530.00                   | 4,070.00              | 4,972.05              | 4,549.10              | 26.44            | 26.09         | -143.472              | -158.88                             | 933.71       | 596.22                 | 561.77                  | 34.44                     | 17.310             |           |
| 4,560.00                   | 4,070.00              | 5,002.05              | 4,549.10              | 27.02            | 26.67         | -143.473              | -158.81                             | 963.71       | 596.21                 | 561.01                  | 35.20                     | 16.940             |           |
| 4,590.00                   | 4,070.00              | 5,032.05              | 4,549.10              | 27.60            | 27.28         | -143.474              | -158.73                             | 993.71       | 596.20                 | 560.23                  | 35.97                     | 16.576             |           |
| 4,620.00                   | 4,070.00              | 5,062.05              | 4,549.10              | 28.20            | 27.89         | -143.475              | -158.66                             | 1,023.71     | 596.19                 | 559.44                  | 36.75                     | 16.222             |           |
| 4,650.00                   | 4,070.00              | 5,107.95              | 4,549.10              | 28.81            | 28.84         | -143.476              | -158.59                             | 1,053.71     | 596.19                 | 558.43                  | 37.75                     | 15.793             |           |
| 4,680.00                   | 4,070.00              | 5,122.05              | 4,549.10              | 29.43            | 29.14         | -143.477              | -158.51                             | 1,083.70     | 596.18                 | 557.83                  | 38.35                     | 15.547             |           |
| 4,710.00                   | 4,070.00              | 5,152.05              | 4,549.10              | 30.05            | 29.78         | -143.478              | -158.44                             | 1,113.70     | 596.17                 | 557.01                  | 39.16                     | 15.224             |           |
| 4,740.00                   | 4,070.00              | 5,182.05              | 4,549.10              | 30.69            | 30.42         | -143.479              | -158.36                             | 1,143.70     | 596.16                 | 556.18                  | 39.98                     | 14.911             |           |
| 4,770.00                   | 4,070.00              | 5,212.05              | 4,549.10              | 31.33            | 31.07         | -143.480              | -158.29                             | 1,173.70     | 596.16                 | 555.35                  | 40.81                     | 14.608             |           |
| 4,800.00                   | 4,070.00              | 5,242.05              | 4,549.10              | 31.98            | 31.73         | -143.481              | -158.22                             | 1,203.70     | 596.15                 | 554.50                  | 41.65                     | 14.314             |           |
| 4,830.00                   | 4,070.00              | 5,272.05              | 4,549.10              | 32.64            | 32.40         | -143.482              | -158.14                             | 1,233.70     | 596.14                 | 553.64                  | 42.50                     | 14.028             |           |
| 4,860.00                   | 4,070.00              | 5,302.05              | 4,549.10              | 33.30            | 33.06         | -143.483              | -158.07                             | 1,263.70     | 596.13                 | 552.79                  | 43.35                     | 13.753             |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  | Offset                | Semi Major Axis       |                       |                  |               |                       | Distance                            |              |                        |                         |                           |                    | Warning   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 4,890.00                   | 4,070.00              | 5,332.05              | 4,549.10              | 33.97            | 33.74         | -143.484              | -157.99                             | 1,293.70     | 596.13                 | 551.92                  | 44.21                     | 13.485             |           |
| 4,920.00                   | 4,070.00              | 5,362.05              | 4,549.10              | 34.64            | 34.42         | -143.485              | -157.92                             | 1,323.70     | 596.12                 | 551.04                  | 45.08                     | 13.225             |           |
| 4,950.00                   | 4,070.00              | 5,407.95              | 4,549.10              | 35.32            | 35.47         | -143.486              | -157.85                             | 1,353.70     | 596.11                 | 549.93                  | 46.18                     | 12.909             |           |
| 4,980.00                   | 4,070.00              | 5,422.05              | 4,549.10              | 36.00            | 35.79         | -143.487              | -157.77                             | 1,383.70     | 596.10                 | 549.28                  | 46.82                     | 12.731             |           |
| 5,010.00                   | 4,070.00              | 5,452.05              | 4,549.10              | 36.69            | 36.49         | -143.488              | -157.70                             | 1,413.70     | 596.09                 | 548.39                  | 47.71                     | 12.495             |           |
| 5,040.00                   | 4,070.00              | 5,482.05              | 4,549.10              | 37.39            | 37.18         | -143.489              | -157.62                             | 1,443.70     | 596.09                 | 547.49                  | 48.60                     | 12.266             |           |
| 5,070.00                   | 4,070.00              | 5,512.05              | 4,549.10              | 38.08            | 37.88         | -143.490              | -157.55                             | 1,473.70     | 596.08                 | 546.59                  | 49.49                     | 12.045             |           |
| 5,100.00                   | 4,070.00              | 5,542.05              | 4,549.10              | 38.78            | 38.59         | -143.491              | -157.48                             | 1,503.70     | 596.07                 | 545.69                  | 50.38                     | 11.830             |           |
| 5,130.00                   | 4,070.00              | 5,572.05              | 4,549.10              | 39.49            | 39.30         | -143.492              | -157.40                             | 1,533.70     | 596.06                 | 544.78                  | 51.29                     | 11.622             |           |
| 5,160.00                   | 4,070.00              | 5,602.05              | 4,549.10              | 40.19            | 40.00         | -143.493              | -157.33                             | 1,563.70     | 596.06                 | 543.87                  | 52.19                     | 11.421             |           |
| 5,190.00                   | 4,070.00              | 5,632.05              | 4,549.10              | 40.90            | 40.72         | -143.494              | -157.26                             | 1,593.70     | 596.05                 | 542.95                  | 53.10                     | 11.225             |           |
| 5,220.00                   | 4,070.00              | 5,662.05              | 4,549.10              | 41.62            | 41.44         | -143.495              | -157.18                             | 1,623.70     | 596.04                 | 542.03                  | 54.02                     | 11.035             |           |
| 5,250.00                   | 4,070.00              | 5,692.05              | 4,549.10              | 42.33            | 42.16         | -143.496              | -157.11                             | 1,653.70     | 596.03                 | 541.10                  | 54.93                     | 10.851             |           |
| 5,280.00                   | 4,070.00              | 5,722.05              | 4,549.10              | 43.05            | 42.88         | -143.497              | -157.03                             | 1,683.70     | 596.03                 | 540.18                  | 55.85                     | 10.672             |           |
| 5,310.00                   | 4,070.00              | 5,752.05              | 4,549.10              | 43.77            | 43.60         | -143.498              | -156.96                             | 1,713.70     | 596.02                 | 539.25                  | 56.77                     | 10.498             |           |
| 5,340.00                   | 4,070.00              | 5,782.05              | 4,549.10              | 44.50            | 44.33         | -143.499              | -156.89                             | 1,743.70     | 596.01                 | 538.31                  | 57.70                     | 10.329             |           |
| 5,370.00                   | 4,070.00              | 5,812.05              | 4,549.10              | 45.22            | 45.06         | -143.500              | -156.81                             | 1,773.70     | 596.00                 | 537.38                  | 58.63                     | 10.166             |           |
| 5,400.00                   | 4,070.00              | 5,842.05              | 4,549.10              | 45.95            | 45.79         | -143.501              | -156.74                             | 1,803.70     | 596.00                 | 536.44                  | 59.56                     | 10.007             |           |
| 5,430.00                   | 4,070.00              | 5,872.05              | 4,549.10              | 46.68            | 46.52         | -143.502              | -156.66                             | 1,833.70     | 595.99                 | 535.50                  | 60.49                     | 9.852              |           |
| 5,460.00                   | 4,070.00              | 5,902.05              | 4,549.10              | 47.42            | 47.26         | -143.503              | -156.59                             | 1,863.70     | 595.98                 | 534.55                  | 61.43                     | 9.702              |           |
| 5,490.00                   | 4,070.00              | 5,932.05              | 4,549.10              | 48.15            | 48.00         | -143.504              | -156.52                             | 1,893.70     | 595.97                 | 533.61                  | 62.37                     | 9.556              |           |
| 5,520.00                   | 4,070.00              | 5,962.05              | 4,549.10              | 48.89            | 48.73         | -143.504              | -156.44                             | 1,923.70     | 595.97                 | 532.66                  | 63.31                     | 9.413              |           |
| 5,550.00                   | 4,070.00              | 6,007.95              | 4,549.10              | 49.63            | 49.87         | -143.505              | -156.37                             | 1,953.70     | 595.96                 | 531.46                  | 64.50                     | 9.239              |           |
| 5,580.00                   | 4,070.00              | 6,022.05              | 4,549.10              | 50.36            | 50.22         | -143.506              | -156.29                             | 1,983.70     | 595.95                 | 530.75                  | 65.20                     | 9.141              |           |
| 5,610.00                   | 4,070.00              | 6,052.05              | 4,549.10              | 51.11            | 50.96         | -143.507              | -156.22                             | 2,013.70     | 595.94                 | 529.80                  | 66.15                     | 9.010              |           |
| 5,640.00                   | 4,070.00              | 6,082.05              | 4,549.10              | 51.85            | 51.70         | -143.508              | -156.15                             | 2,043.70     | 595.94                 | 528.84                  | 67.09                     | 8.882              |           |
| 5,670.00                   | 4,070.00              | 6,112.05              | 4,549.10              | 52.59            | 52.45         | -143.509              | -156.07                             | 2,073.70     | 595.93                 | 527.89                  | 68.04                     | 8.758              |           |
| 5,700.00                   | 4,070.00              | 6,142.05              | 4,549.10              | 53.34            | 53.20         | -143.510              | -156.00                             | 2,103.70     | 595.92                 | 526.93                  | 69.00                     | 8.637              |           |
| 5,730.00                   | 4,070.00              | 6,172.05              | 4,549.10              | 54.09            | 53.95         | -143.511              | -155.93                             | 2,133.70     | 595.91                 | 525.96                  | 69.95                     | 8.519              |           |
| 5,760.00                   | 4,070.00              | 6,202.05              | 4,549.10              | 54.84            | 54.69         | -143.512              | -155.85                             | 2,163.70     | 595.91                 | 525.00                  | 70.91                     | 8.404              |           |
| 5,790.00                   | 4,070.00              | 6,232.05              | 4,549.10              | 55.59            | 55.45         | -143.513              | -155.78                             | 2,193.70     | 595.90                 | 524.04                  | 71.86                     | 8.292              |           |
| 5,820.00                   | 4,070.00              | 6,262.05              | 4,549.10              | 56.34            | 56.20         | -143.514              | -155.70                             | 2,223.70     | 595.89                 | 523.07                  | 72.82                     | 8.183              |           |
| 5,850.00                   | 4,070.00              | 6,307.95              | 4,549.10              | 57.09            | 57.35         | -143.515              | -155.63                             | 2,253.70     | 595.88                 | 521.85                  | 74.04                     | 8.049              |           |
| 5,880.00                   | 4,070.00              | 6,322.05              | 4,549.10              | 57.84            | 57.71         | -143.516              | -155.56                             | 2,283.70     | 595.88                 | 521.13                  | 74.74                     | 7.972              |           |
| 5,910.00                   | 4,070.00              | 6,352.05              | 4,549.10              | 58.60            | 58.46         | -143.517              | -155.48                             | 2,313.70     | 595.87                 | 520.16                  | 75.71                     | 7.871              |           |
| 5,940.00                   | 4,070.00              | 6,382.05              | 4,549.10              | 59.35            | 59.22         | -143.518              | -155.41                             | 2,343.70     | 595.86                 | 519.19                  | 76.67                     | 7.772              |           |
| 5,970.00                   | 4,070.00              | 6,412.05              | 4,549.10              | 60.11            | 59.97         | -143.519              | -155.33                             | 2,373.70     | 595.85                 | 518.22                  | 77.63                     | 7.675              |           |
| 6,000.00                   | 4,070.00              | 6,442.05              | 4,549.10              | 60.86            | 60.73         | -143.520              | -155.26                             | 2,403.70     | 595.85                 | 517.25                  | 78.60                     | 7.581              |           |
| 6,030.00                   | 4,070.00              | 6,472.05              | 4,549.10              | 61.62            | 61.49         | -143.521              | -155.19                             | 2,433.70     | 595.84                 | 516.27                  | 79.57                     | 7.489              |           |
| 6,060.00                   | 4,070.00              | 6,502.05              | 4,549.10              | 62.38            | 62.25         | -143.522              | -155.11                             | 2,463.70     | 595.83                 | 515.30                  | 80.53                     | 7.398              |           |
| 6,090.00                   | 4,070.00              | 6,532.05              | 4,549.10              | 63.14            | 63.01         | -143.523              | -155.04                             | 2,493.70     | 595.82                 | 514.32                  | 81.50                     | 7.310              |           |
| 6,120.00                   | 4,070.00              | 6,562.05              | 4,549.10              | 63.90            | 63.77         | -143.524              | -154.97                             | 2,523.70     | 595.82                 | 513.34                  | 82.47                     | 7.224              |           |
| 6,150.00                   | 4,070.00              | 6,607.95              | 4,549.10              | 64.66            | 64.94         | -143.525              | -154.89                             | 2,553.70     | 595.81                 | 512.11                  | 83.70                     | 7.118              |           |
| 6,180.00                   | 4,070.00              | 6,622.05              | 4,549.10              | 65.42            | 65.30         | -143.526              | -154.82                             | 2,583.70     | 595.80                 | 511.39                  | 84.42                     | 7.058              |           |
| 6,210.00                   | 4,070.00              | 6,652.05              | 4,549.10              | 66.19            | 66.06         | -143.527              | -154.74                             | 2,613.70     | 595.79                 | 510.40                  | 85.39                     | 6.977              |           |
| 6,240.00                   | 4,070.00              | 6,682.05              | 4,549.10              | 66.95            | 66.82         | -143.528              | -154.67                             | 2,643.70     | 595.79                 | 509.42                  | 86.36                     | 6.899              |           |
| 6,270.00                   | 4,070.00              | 6,712.05              | 4,549.10              | 67.71            | 67.59         | -143.529              | -154.60                             | 2,673.70     | 595.78                 | 508.44                  | 87.34                     | 6.822              |           |
| 6,300.00                   | 4,070.00              | 6,742.05              | 4,549.10              | 68.48            | 68.35         | -143.530              | -154.52                             | 2,703.70     | 595.77                 | 507.46                  | 88.31                     | 6.746              |           |
| 6,330.00                   | 4,070.00              | 6,772.05              | 4,549.10              | 69.24            | 69.12         | -143.531              | -154.45                             | 2,733.70     | 595.76                 | 506.48                  | 89.29                     | 6.672              |           |
| 6,360.00                   | 4,070.00              | 6,802.05              | 4,549.10              | 70.01            | 69.88         | -143.532              | -154.37                             | 2,763.70     | 595.76                 | 505.49                  | 90.27                     | 6.600              |           |
| 6,390.00                   | 4,070.00              | 6,832.05              | 4,549.10              | 70.78            | 70.65         | -143.533              | -154.30                             | 2,793.70     | 595.75                 | 504.51                  | 91.24                     | 6.529              |           |
| 6,420.00                   | 4,070.00              | 6,862.05              | 4,549.10              | 71.54            | 71.42         | -143.534              | -154.23                             | 2,823.70     | 595.74                 | 503.52                  | 92.22                     | 6.460              |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  |                       | Offset                |                       | Semi Major Axis  |               |                       | Distance                            |              |                        |                         |                           |                    | Warning   |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  |           |
| 6,450.00                   | 4,070.00              | 6,907.95              | 4,549.10              | 72.31            | 72.59         | -143.535              | -154.15                             | 2,853.70     | 595.73                 | 502.27                  | 93.46                     | 6.374              |           |
| 6,480.00                   | 4,070.00              | 6,922.05              | 4,549.10              | 73.08            | 72.96         | -143.536              | -154.08                             | 2,883.70     | 595.73                 | 501.55                  | 94.18                     | 6.325              |           |
| 6,510.00                   | 4,070.00              | 6,952.05              | 4,549.10              | 73.85            | 73.73         | -143.537              | -154.00                             | 2,913.70     | 595.72                 | 500.56                  | 95.16                     | 6.260              |           |
| 6,540.00                   | 4,070.00              | 6,982.05              | 4,549.10              | 74.62            | 74.49         | -143.538              | -153.93                             | 2,943.70     | 595.71                 | 499.57                  | 96.14                     | 6.196              |           |
| 6,570.00                   | 4,070.00              | 7,012.05              | 4,549.10              | 75.39            | 75.26         | -143.539              | -153.86                             | 2,973.70     | 595.70                 | 498.58                  | 97.12                     | 6.134              |           |
| 6,600.00                   | 4,070.00              | 7,042.05              | 4,549.10              | 76.15            | 76.03         | -143.540              | -153.78                             | 3,003.70     | 595.70                 | 497.59                  | 98.10                     | 6.072              |           |
| 6,630.00                   | 4,070.00              | 7,072.05              | 4,549.10              | 76.93            | 76.81         | -143.541              | -153.71                             | 3,033.70     | 595.69                 | 496.60                  | 99.08                     | 6.012              |           |
| 6,660.00                   | 4,070.00              | 7,102.05              | 4,549.10              | 77.70            | 77.58         | -143.542              | -153.64                             | 3,063.70     | 595.68                 | 495.61                  | 100.07                    | 5.953              |           |
| 6,690.00                   | 4,070.00              | 7,132.05              | 4,549.10              | 78.47            | 78.35         | -143.543              | -153.56                             | 3,093.70     | 595.67                 | 494.62                  | 101.05                    | 5.895              |           |
| 6,720.00                   | 4,070.00              | 7,162.05              | 4,549.10              | 79.24            | 79.12         | -143.544              | -153.49                             | 3,123.70     | 595.67                 | 493.63                  | 102.03                    | 5.838              |           |
| 6,750.00                   | 4,070.00              | 7,207.95              | 4,549.10              | 80.01            | 80.30         | -143.545              | -153.41                             | 3,153.70     | 595.66                 | 492.38                  | 103.28                    | 5.767              |           |
| 6,780.00                   | 4,070.00              | 7,222.05              | 4,549.10              | 80.78            | 80.67         | -143.546              | -153.34                             | 3,183.70     | 595.65                 | 491.65                  | 104.00                    | 5.727              |           |
| 6,810.00                   | 4,070.00              | 7,252.05              | 4,549.10              | 81.56            | 81.44         | -143.546              | -153.27                             | 3,213.70     | 595.64                 | 490.66                  | 104.99                    | 5.673              |           |
| 6,840.00                   | 4,070.00              | 7,282.05              | 4,549.10              | 82.33            | 82.21         | -143.547              | -153.19                             | 3,243.70     | 595.64                 | 489.66                  | 105.97                    | 5.621              |           |
| 6,870.00                   | 4,070.00              | 7,312.05              | 4,549.10              | 83.10            | 82.99         | -143.548              | -153.12                             | 3,273.70     | 595.63                 | 488.67                  | 106.96                    | 5.569              |           |
| 6,900.00                   | 4,070.00              | 7,342.05              | 4,549.10              | 83.88            | 83.76         | -143.549              | -153.04                             | 3,303.70     | 595.62                 | 487.67                  | 107.95                    | 5.518              |           |
| 6,930.00                   | 4,070.00              | 7,372.05              | 4,549.10              | 84.65            | 84.53         | -143.550              | -152.97                             | 3,333.70     | 595.61                 | 486.68                  | 108.93                    | 5.468              |           |
| 6,960.00                   | 4,070.00              | 7,402.05              | 4,549.10              | 85.43            | 85.31         | -143.551              | -152.90                             | 3,363.70     | 595.61                 | 485.69                  | 109.92                    | 5.418              |           |
| 6,990.00                   | 4,070.00              | 7,432.05              | 4,549.10              | 86.20            | 86.08         | -143.552              | -152.82                             | 3,393.70     | 595.60                 | 484.69                  | 110.91                    | 5.370              |           |
| 7,020.00                   | 4,070.00              | 7,462.05              | 4,549.10              | 86.98            | 86.86         | -143.553              | -152.75                             | 3,423.70     | 595.59                 | 483.69                  | 111.90                    | 5.323              |           |
| 7,050.00                   | 4,070.00              | 7,507.95              | 4,549.10              | 87.75            | 88.05         | -143.554              | -152.67                             | 3,453.70     | 595.58                 | 482.44                  | 113.15                    | 5.264              |           |
| 7,080.00                   | 4,070.00              | 7,522.05              | 4,549.10              | 88.53            | 88.41         | -143.555              | -152.60                             | 3,483.70     | 595.58                 | 481.70                  | 113.87                    | 5.230              |           |
| 7,110.00                   | 4,070.00              | 7,552.05              | 4,549.10              | 89.30            | 89.19         | -143.556              | -152.53                             | 3,513.70     | 595.57                 | 480.71                  | 114.86                    | 5.185              |           |
| 7,140.00                   | 4,070.00              | 7,582.05              | 4,549.10              | 90.08            | 89.96         | -143.557              | -152.45                             | 3,543.70     | 595.56                 | 479.71                  | 115.85                    | 5.141              |           |
| 7,170.00                   | 4,070.00              | 7,612.05              | 4,549.10              | 90.86            | 90.74         | -143.558              | -152.38                             | 3,573.70     | 595.55                 | 478.71                  | 116.84                    | 5.097              |           |
| 7,200.00                   | 4,070.00              | 7,642.05              | 4,549.10              | 91.63            | 91.52         | -143.559              | -152.31                             | 3,603.70     | 595.55                 | 477.72                  | 117.83                    | 5.054              |           |
| 7,230.00                   | 4,070.00              | 7,672.05              | 4,549.10              | 92.41            | 92.30         | -143.560              | -152.23                             | 3,633.70     | 595.54                 | 476.72                  | 118.82                    | 5.012              |           |
| 7,260.00                   | 4,070.00              | 7,702.05              | 4,549.10              | 93.19            | 93.07         | -143.561              | -152.16                             | 3,663.70     | 595.53                 | 475.72                  | 119.81                    | 4.971              |           |
| 7,290.00                   | 4,070.00              | 7,732.05              | 4,549.10              | 93.96            | 93.85         | -143.562              | -152.08                             | 3,693.70     | 595.52                 | 474.72                  | 120.80                    | 4.930              |           |
| 7,320.00                   | 4,070.00              | 7,762.05              | 4,549.10              | 94.74            | 94.63         | -143.563              | -152.01                             | 3,723.70     | 595.52                 | 473.72                  | 121.79                    | 4.890              |           |
| 7,350.00                   | 4,070.00              | 7,792.05              | 4,549.10              | 95.52            | 95.41         | -143.564              | -151.94                             | 3,753.70     | 595.51                 | 472.72                  | 122.79                    | 4.850              |           |
| 7,380.00                   | 4,070.00              | 7,822.05              | 4,549.10              | 96.30            | 96.18         | -143.565              | -151.86                             | 3,783.70     | 595.50                 | 471.72                  | 123.78                    | 4.811              |           |
| 7,410.00                   | 4,070.00              | 7,852.05              | 4,549.10              | 97.08            | 96.96         | -143.566              | -151.79                             | 3,813.70     | 595.49                 | 470.73                  | 124.77                    | 4.773              |           |
| 7,440.00                   | 4,070.00              | 7,882.05              | 4,549.10              | 97.85            | 97.74         | -143.567              | -151.71                             | 3,843.70     | 595.49                 | 469.73                  | 125.76                    | 4.735              |           |
| 7,470.00                   | 4,070.00              | 7,912.05              | 4,549.10              | 98.63            | 98.52         | -143.568              | -151.64                             | 3,873.70     | 595.48                 | 468.73                  | 126.75                    | 4.698              |           |
| 7,500.00                   | 4,070.00              | 7,942.05              | 4,549.10              | 99.41            | 99.30         | -143.569              | -151.57                             | 3,903.70     | 595.47                 | 467.73                  | 127.75                    | 4.661              |           |
| 7,530.00                   | 4,070.00              | 7,972.05              | 4,549.10              | 100.19           | 100.08        | -143.570              | -151.49                             | 3,933.70     | 595.46                 | 466.73                  | 128.74                    | 4.625              |           |
| 7,560.00                   | 4,070.00              | 8,002.05              | 4,549.10              | 100.97           | 100.86        | -143.571              | -151.42                             | 3,963.70     | 595.46                 | 465.72                  | 129.73                    | 4.590              |           |
| 7,590.00                   | 4,070.00              | 8,032.05              | 4,549.10              | 101.75           | 101.64        | -143.572              | -151.34                             | 3,993.70     | 595.45                 | 464.72                  | 130.72                    | 4.555              |           |
| 7,620.00                   | 4,070.00              | 8,062.05              | 4,549.10              | 102.53           | 102.42        | -143.573              | -151.27                             | 4,023.70     | 595.44                 | 463.72                  | 131.72                    | 4.521              |           |
| 7,650.00                   | 4,070.00              | 8,107.95              | 4,549.10              | 103.31           | 103.61        | -143.574              | -151.20                             | 4,053.70     | 595.43                 | 462.46                  | 132.98                    | 4.478              |           |
| 7,680.00                   | 4,070.00              | 8,122.05              | 4,549.10              | 104.09           | 103.98        | -143.575              | -151.12                             | 4,083.70     | 595.43                 | 461.72                  | 133.71                    | 4.453              |           |
| 7,710.00                   | 4,070.00              | 8,152.05              | 4,549.10              | 104.87           | 104.76        | -143.576              | -151.05                             | 4,113.70     | 595.42                 | 460.72                  | 134.70                    | 4.420              |           |
| 7,740.00                   | 4,070.00              | 8,182.05              | 4,549.10              | 105.65           | 105.54        | -143.577              | -150.98                             | 4,143.70     | 595.41                 | 459.72                  | 135.69                    | 4.388              |           |
| 7,770.00                   | 4,070.00              | 8,212.05              | 4,549.10              | 106.43           | 106.32        | -143.578              | -150.90                             | 4,173.70     | 595.40                 | 458.72                  | 136.69                    | 4.356              |           |
| 7,800.00                   | 4,070.00              | 8,242.05              | 4,549.10              | 107.21           | 107.10        | -143.579              | -150.83                             | 4,203.70     | 595.40                 | 457.71                  | 137.68                    | 4.324              |           |
| 7,830.00                   | 4,070.00              | 8,272.05              | 4,549.10              | 107.99           | 107.88        | -143.580              | -150.75                             | 4,233.70     | 595.39                 | 456.71                  | 138.68                    | 4.293              |           |
| 7,860.00                   | 4,070.00              | 8,302.05              | 4,549.10              | 108.78           | 108.67        | -143.581              | -150.68                             | 4,263.70     | 595.38                 | 455.71                  | 139.67                    | 4.263              |           |
| 7,890.00                   | 4,070.00              | 8,332.05              | 4,549.10              | 109.56           | 109.45        | -143.582              | -150.61                             | 4,293.69     | 595.37                 | 454.71                  | 140.67                    | 4.232              |           |
| 7,920.00                   | 4,070.00              | 8,362.05              | 4,549.10              | 110.34           | 110.23        | -143.583              | -150.53                             | 4,323.69     | 595.37                 | 453.70                  | 141.66                    | 4.203              |           |
| 7,950.00                   | 4,070.00              | 8,407.95              | 4,549.10              | 111.12           | 111.42        | -143.584              | -150.46                             | 4,353.69     | 595.36                 | 452.44                  | 142.92                    | 4.166              |           |
| 7,980.00                   | 4,070.00              | 8,422.05              | 4,549.10              | 111.90           | 111.79        | -143.585              | -150.38                             | 4,383.69     | 595.35                 | 451.70                  | 143.65                    | 4.144              |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

| Offset Design              |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Site Error: | 0.00 usft |
|----------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|--------------------|-----------|
| Survey Program: 0-MWD+IGRF |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | Offset Well Error: | 0.00 usft |
| Reference                  | Offset                | Semi Major Axis       |                       | Distance         |               |                       |                                     |              |                        |                         |                           |                    |           |
| Measured Depth (usft)      | Vertical Depth (usft) | Measured Depth (usft) | Vertical Depth (usft) | Reference (usft) | Offset (usft) | Highside Toolface (°) | Offset Wellbore Centre +N/-S (usft) | +E/-W (usft) | Between Centres (usft) | Between Ellipses (usft) | Minimum Separation (usft) | Separation Factor  | Warning   |
| 8,010.00                   | 4,070.00              | 8,452.05              | 4,549.10              | 112.68           | 112.57        | -143.586              | -150.31                             | 4,413.69     | 595.34                 | 450.69                  | 144.65                    | 4.116              |           |
| 8,040.00                   | 4,070.00              | 8,482.05              | 4,549.10              | 113.47           | 113.36        | -143.587              | -150.24                             | 4,443.69     | 595.34                 | 449.69                  | 145.64                    | 4.088              |           |
| 8,070.00                   | 4,070.00              | 8,512.05              | 4,549.10              | 114.25           | 114.14        | -143.588              | -150.16                             | 4,473.69     | 595.33                 | 448.69                  | 146.64                    | 4.060              |           |
| 8,100.00                   | 4,070.00              | 8,542.05              | 4,549.10              | 115.03           | 114.92        | -143.589              | -150.09                             | 4,503.69     | 595.32                 | 447.68                  | 147.64                    | 4.032              |           |
| 8,130.00                   | 4,070.00              | 8,572.05              | 4,549.10              | 115.81           | 115.70        | -143.590              | -150.02                             | 4,533.69     | 595.31                 | 446.68                  | 148.63                    | 4.005              |           |
| 8,160.00                   | 4,070.00              | 8,602.05              | 4,549.10              | 116.59           | 116.49        | -143.591              | -149.94                             | 4,563.69     | 595.31                 | 445.68                  | 149.63                    | 3.979              |           |
| 8,190.00                   | 4,070.00              | 8,632.05              | 4,549.10              | 117.38           | 117.27        | -143.591              | -149.87                             | 4,593.69     | 595.30                 | 444.67                  | 150.63                    | 3.952              |           |
| 8,220.00                   | 4,070.00              | 8,662.05              | 4,549.10              | 118.16           | 118.05        | -143.592              | -149.79                             | 4,623.69     | 595.29                 | 443.67                  | 151.62                    | 3.926              |           |
| 8,250.00                   | 4,070.00              | 8,707.95              | 4,549.10              | 118.94           | 119.25        | -143.593              | -149.72                             | 4,653.69     | 595.28                 | 442.40                  | 152.88                    | 3.894              |           |
| 8,280.00                   | 4,070.00              | 8,722.05              | 4,549.10              | 119.73           | 119.62        | -143.594              | -149.65                             | 4,683.69     | 595.28                 | 441.66                  | 153.62                    | 3.875              |           |
| 8,310.00                   | 4,070.00              | 8,752.05              | 4,549.10              | 120.51           | 120.40        | -143.595              | -149.57                             | 4,713.69     | 595.27                 | 440.66                  | 154.61                    | 3.850              |           |
| 8,340.00                   | 4,070.00              | 8,782.05              | 4,549.10              | 121.29           | 121.18        | -143.596              | -149.50                             | 4,743.69     | 595.26                 | 439.65                  | 155.61                    | 3.825              |           |
| 8,370.00                   | 4,070.00              | 8,812.05              | 4,549.10              | 122.08           | 121.97        | -143.597              | -149.42                             | 4,773.69     | 595.25                 | 438.65                  | 156.61                    | 3.801              |           |
| 8,400.00                   | 4,070.00              | 8,842.05              | 4,549.10              | 122.86           | 122.75        | -143.598              | -149.35                             | 4,803.69     | 595.25                 | 437.64                  | 157.60                    | 3.777              |           |
| 8,430.00                   | 4,070.00              | 8,872.05              | 4,549.10              | 123.64           | 123.53        | -143.599              | -149.28                             | 4,833.69     | 595.24                 | 436.64                  | 158.60                    | 3.753              |           |
| 8,460.00                   | 4,070.00              | 8,902.05              | 4,549.10              | 124.43           | 124.32        | -143.600              | -149.20                             | 4,863.69     | 595.23                 | 435.63                  | 159.60                    | 3.730              |           |
| 8,490.00                   | 4,070.00              | 8,932.05              | 4,549.10              | 125.21           | 125.10        | -143.601              | -149.13                             | 4,893.69     | 595.22                 | 434.63                  | 160.60                    | 3.706              |           |
| 8,520.00                   | 4,070.00              | 8,962.05              | 4,549.10              | 125.99           | 125.89        | -143.602              | -149.05                             | 4,923.69     | 595.22                 | 433.62                  | 161.59                    | 3.683              |           |
| 8,550.00                   | 4,070.00              | 9,007.95              | 4,549.10              | 126.78           | 127.09        | -143.603              | -148.98                             | 4,953.69     | 595.21                 | 432.35                  | 162.86                    | 3.655              |           |
| 8,580.00                   | 4,070.00              | 9,022.05              | 4,549.10              | 127.56           | 127.45        | -143.604              | -148.91                             | 4,983.69     | 595.20                 | 431.61                  | 163.59                    | 3.638              |           |
| 8,610.00                   | 4,070.00              | 9,052.05              | 4,549.10              | 128.35           | 128.24        | -143.605              | -148.83                             | 5,013.69     | 595.19                 | 430.61                  | 164.59                    | 3.616              |           |
| 8,640.00                   | 4,070.00              | 9,082.05              | 4,549.10              | 129.13           | 129.02        | -143.606              | -148.76                             | 5,043.69     | 595.19                 | 429.60                  | 165.59                    | 3.594              |           |
| 8,670.00                   | 4,070.00              | 9,112.05              | 4,549.10              | 129.91           | 129.81        | -143.607              | -148.69                             | 5,073.69     | 595.18                 | 428.60                  | 166.58                    | 3.573              |           |
| 8,700.00                   | 4,070.00              | 9,142.05              | 4,549.10              | 130.70           | 130.59        | -143.608              | -148.61                             | 5,103.69     | 595.17                 | 427.59                  | 167.58                    | 3.552              |           |
| 8,730.00                   | 4,070.00              | 9,172.05              | 4,549.10              | 131.48           | 131.38        | -143.609              | -148.54                             | 5,133.69     | 595.16                 | 426.58                  | 168.58                    | 3.530              |           |
| 8,760.00                   | 4,070.00              | 9,202.05              | 4,549.10              | 132.27           | 132.16        | -143.610              | -148.46                             | 5,163.69     | 595.16                 | 425.58                  | 169.58                    | 3.510              |           |
| 8,790.00                   | 4,070.00              | 9,232.05              | 4,549.10              | 133.05           | 132.94        | -143.611              | -148.39                             | 5,193.69     | 595.15                 | 424.57                  | 170.58                    | 3.489              |           |
| 8,820.00                   | 4,070.00              | 9,262.05              | 4,549.10              | 133.84           | 133.73        | -143.612              | -148.32                             | 5,223.69     | 595.14                 | 423.57                  | 171.58                    | 3.469              |           |
| 8,850.00                   | 4,070.00              | 9,307.95              | 4,549.10              | 134.62           | 134.93        | -143.613              | -148.24                             | 5,253.69     | 595.13                 | 422.29                  | 172.84                    | 3.443              |           |
| 8,880.00                   | 4,070.00              | 9,322.05              | 4,549.10              | 135.41           | 135.30        | -143.614              | -148.17                             | 5,283.69     | 595.13                 | 421.55                  | 173.57                    | 3.429              |           |
| 8,910.00                   | 4,070.00              | 9,352.05              | 4,549.10              | 136.19           | 136.08        | -143.615              | -148.09                             | 5,313.69     | 595.12                 | 420.55                  | 174.57                    | 3.409              |           |
| 8,940.00                   | 4,070.00              | 9,382.05              | 4,549.10              | 136.98           | 136.87        | -143.616              | -148.02                             | 5,343.69     | 595.11                 | 419.54                  | 175.57                    | 3.390              |           |
| 8,970.00                   | 4,070.00              | 9,412.05              | 4,549.10              | 137.76           | 137.65        | -143.617              | -147.95                             | 5,373.69     | 595.10                 | 418.54                  | 176.57                    | 3.370              |           |
| 9,000.00                   | 4,070.00              | 9,442.05              | 4,549.10              | 138.55           | 138.44        | -143.618              | -147.87                             | 5,403.69     | 595.10                 | 417.53                  | 177.57                    | 3.351              |           |
| 9,030.00                   | 4,070.00              | 9,472.05              | 4,549.10              | 139.33           | 139.23        | -143.619              | -147.80                             | 5,433.69     | 595.09                 | 416.52                  | 178.57                    | 3.333              |           |
| 9,060.00                   | 4,070.00              | 9,502.05              | 4,549.10              | 140.12           | 140.01        | -143.620              | -147.72                             | 5,463.69     | 595.08                 | 415.52                  | 179.57                    | 3.314              |           |
| 9,090.00                   | 4,070.00              | 9,532.05              | 4,549.10              | 140.90           | 140.80        | -143.621              | -147.65                             | 5,493.69     | 595.07                 | 414.51                  | 180.56                    | 3.296              |           |
| 9,120.00                   | 4,070.00              | 9,562.05              | 4,549.10              | 141.69           | 141.58        | -143.622              | -147.58                             | 5,523.69     | 595.07                 | 413.50                  | 181.56                    | 3.277              |           |
| 9,150.00                   | 4,070.00              | 9,592.05              | 4,549.10              | 142.47           | 142.37        | -143.623              | -147.50                             | 5,553.69     | 595.06                 | 412.50                  | 182.56                    | 3.259              |           |
| 9,180.00                   | 4,070.00              | 9,622.05              | 4,549.10              | 143.26           | 143.15        | -143.624              | -147.43                             | 5,583.69     | 595.05                 | 411.49                  | 183.56                    | 3.242              |           |
| 9,191.76                   | 4,070.00              | 9,633.81              | 4,549.10              | 143.57           | 143.46        | -143.624              | -147.40                             | 5,595.45     | 595.05                 | 411.10                  | 183.95                    | 3.235 SF           |           |

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



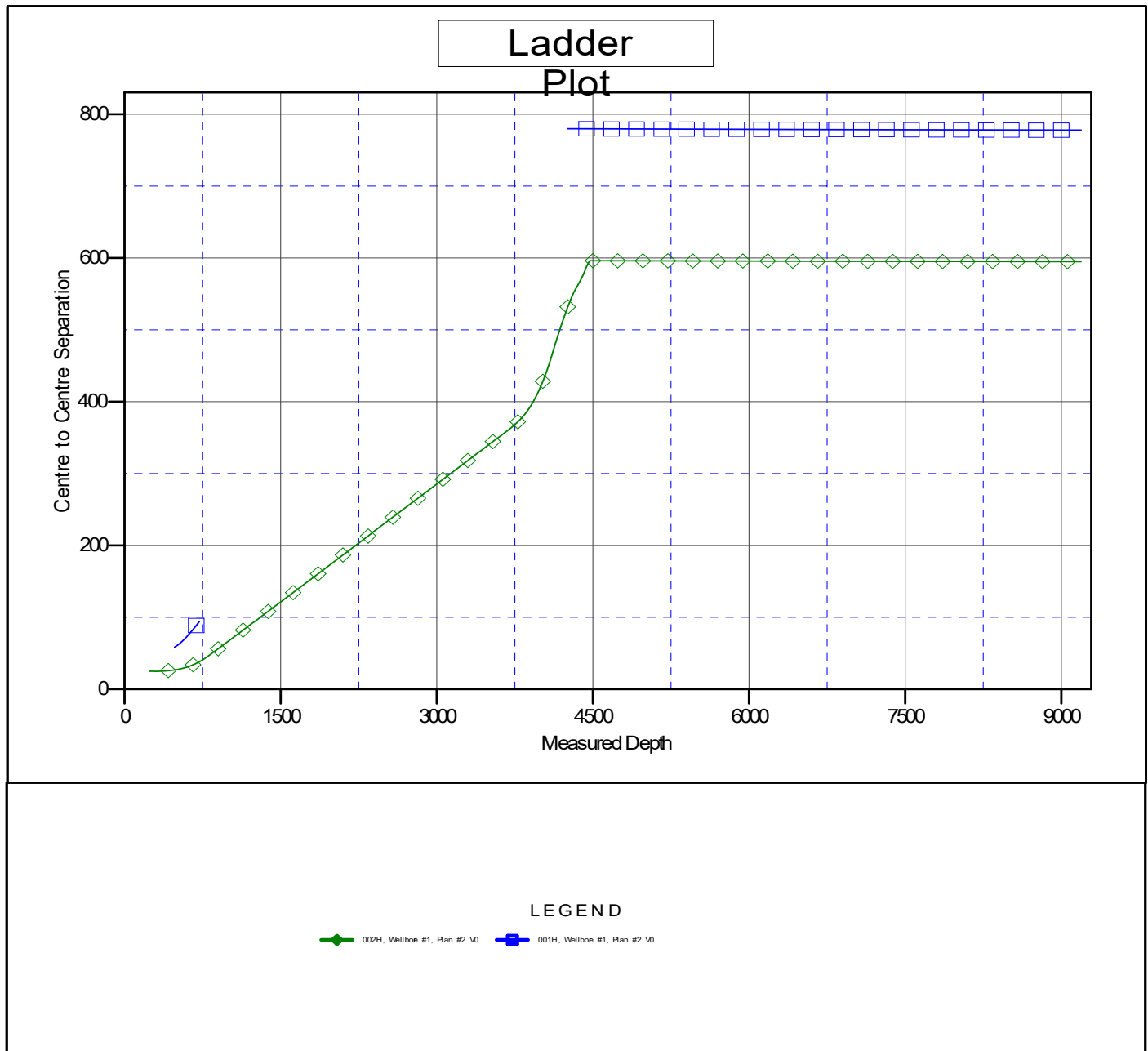
## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

Reference Depths are relative to EST RKB @ 3714.80usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: 003H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.114°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation



## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 003H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3714.80usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3714.80usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 003H                  | <b>Survey Calculation Method:</b>   | Minimum Curvature     |
| <b>Well Error:</b>        | 0.00 usft             | <b>Output errors are at</b>         | 2.00 sigma            |
| <b>Reference Wellbore</b> | Wellbore #1           | <b>Database:</b>                    | WBDS_SQL_2            |
| <b>Reference Design:</b>  | Plan #2               | <b>Offset TVD Reference:</b>        | Reference Datum       |

Reference Depths are relative to EST RKB @ 3714.80usft

Offset Depths are relative to Offset Datum

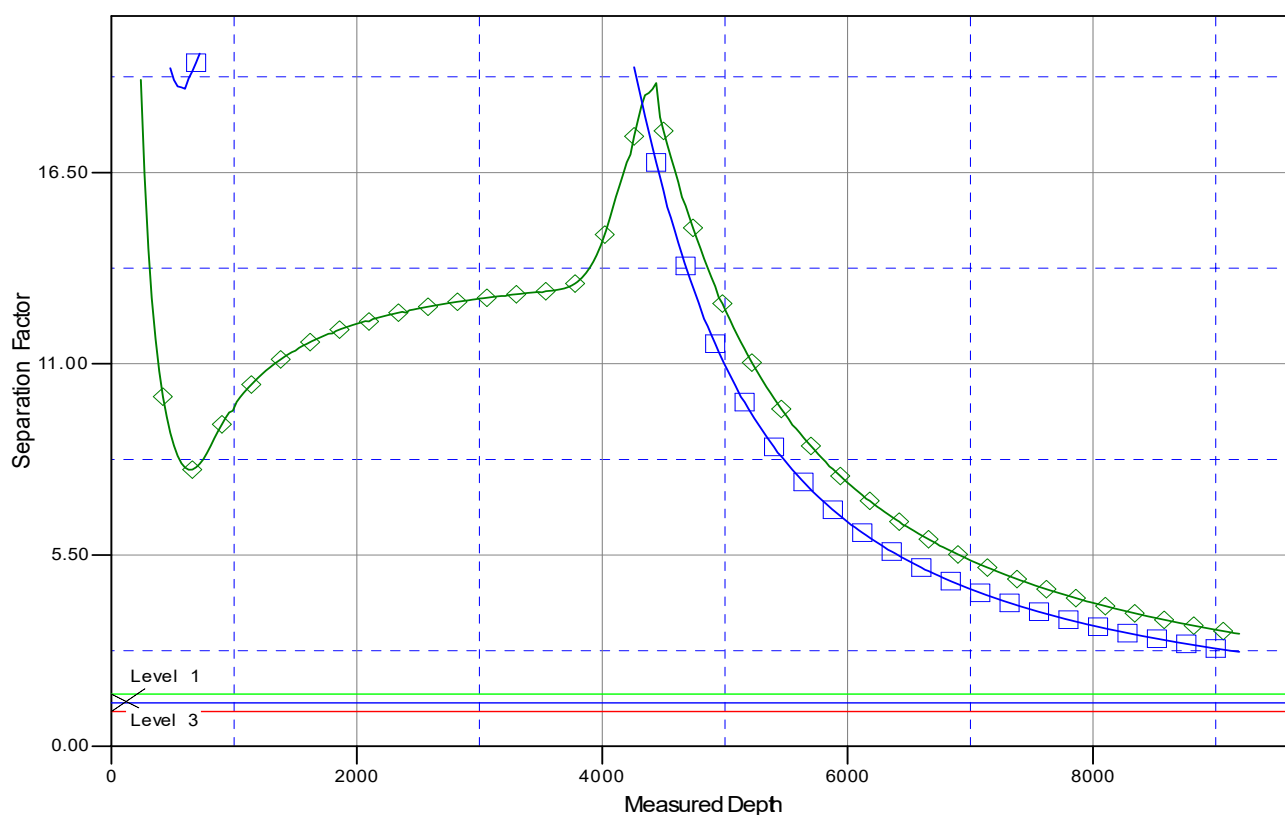
Central Meridian is -104.333334

Coordinates are relative to: 003H

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

Grid Convergence at Surface is: 0.114°

## Separation Factor Plot



## LEGEND

◆ 002H, Wellbore #1, Plan #2 V0
 ■ 001H, Wellbore #1, Plan #2 V0

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
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**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
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**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS  
  
Action 36023

COMMENTS

|                                                                             |                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>LONGFELLOW ENERGY, LP<br>8115 Preston Road<br>Dallas, TX 75225 | OGRID:<br>372210                                     |
|                                                                             | Action Number:<br>36023                              |
|                                                                             | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment                 | Comment Date |
|------------|-------------------------|--------------|
| kpickford  | KP GEO Review 7/20/2021 | 7/20/2021    |

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CONDITIONS

Action 36023

**CONDITIONS**

|                                                                             |                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------|
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|                                                                             | Action Number:<br>36023                              |
|                                                                             | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| jagarcia   | None      | 7/20/2021      |