

|                                 |                                                       |                                |
|---------------------------------|-------------------------------------------------------|--------------------------------|
| Well Name: OZZY FEDERAL COM 18C | Well Location: T17S / R28E / SEC 13 / NESE /          | County or Parish/State:        |
| Well Number: 001H               | Type of Well: OIL WELL                                | Allottee or Tribe Name:        |
| Lease Number: NMNM14847         | Unit or CA Name:                                      | Unit or CA Number:             |
| US Well Number: 3001548309      | Well Status: Approved Application for Permit to Drill | Operator: LONGFELLOW ENERGY LP |

Notice of Intent

Type of Submission: Notice of Intent

Date Sundry Submitted: 06/04/2021

Date proposed operation will begin: 06/11/2021

Type of Action Other

Time Sundry Submitted: 11:21

Procedure Description: Request to move SHL from 1615 S 675 E to 1640 S 765 E. See attachment for revised C102, Horizontal Plan, and Anti-Collision Report.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Ozzy\_18C\_001H\_Sundry\_Attachment\_20210604102145.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> 001H               | <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> 3001548309      | <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> JUN 04, 2021 10:22 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> 07/08/2021          |
| <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>30-015-48309</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>001H</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>3698.9</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>1640</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>2318</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. Jaramila</i><br/>Signature and Seal of Professional Surveyor</p> <p>Certificate Number: <b>PL 12797</b><br/>SURVEY NO. 8389B</p>                                                                                                                                                                                                                                                     |

Intent ☐ As Drilled ☐

|                                                |                                               |                            |
|------------------------------------------------|-----------------------------------------------|----------------------------|
| API #                                          |                                               |                            |
| Operator Name:<br><b>LONGFELLOW ENERGY, LP</b> | Property Name:<br><b>OZZY FEDERAL COM 18C</b> | Well Number<br><b>001H</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>1640</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>32.8330869</b> |                      |                        |                     |     | Longitude<br><b>104.1238843</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>2305</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>32.8336755</b> |                      |                        |                     |                 | Longitude<br><b>104.1210660</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>2318</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>32.8336814</b> |                      |                        |                     |     | Longitude<br><b>104.1059285</b> |                          |                    | NAD<br><b>83</b>        |                       |

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

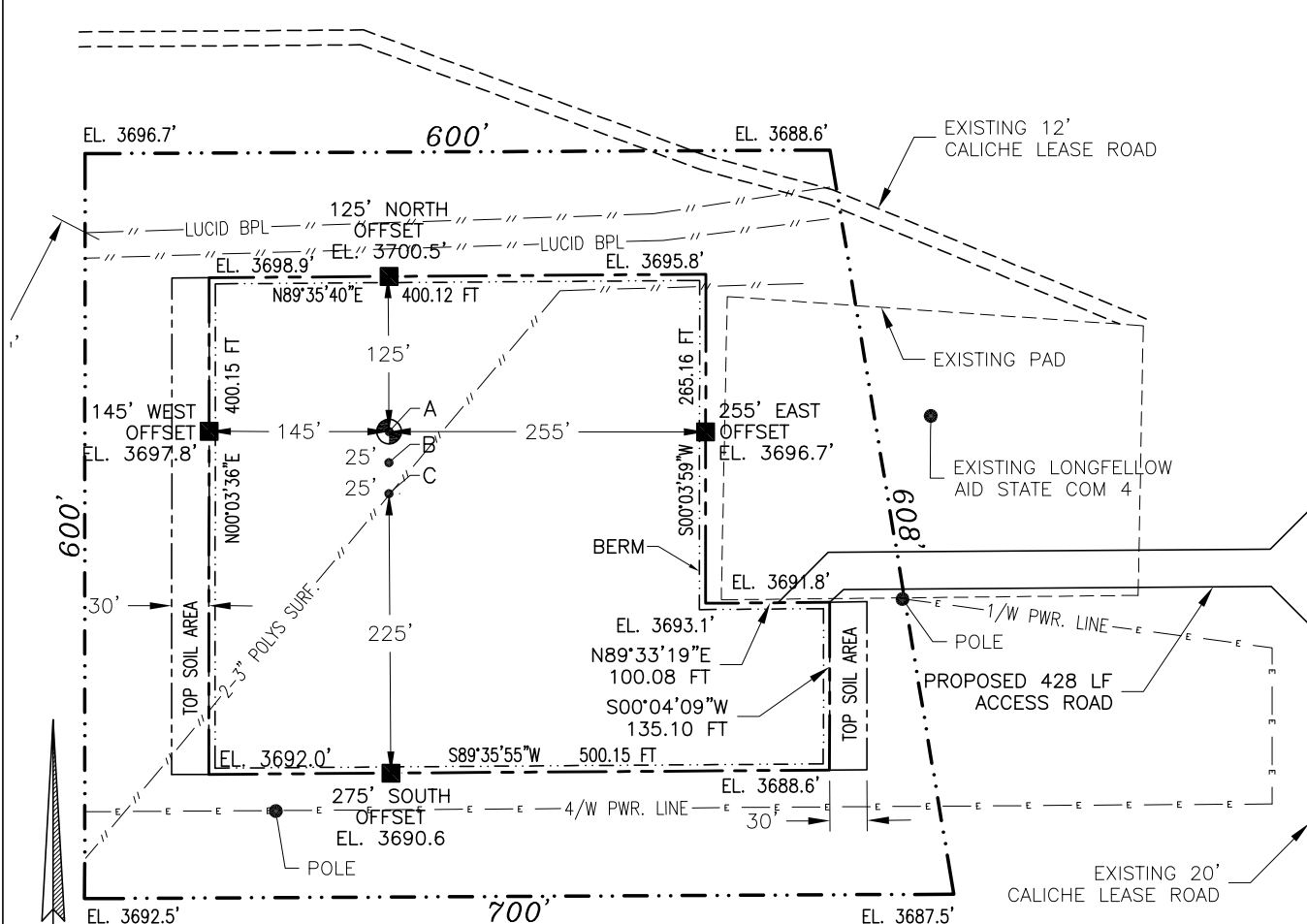
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

|                |                |             |
|----------------|----------------|-------------|
| 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.



**OZZY FEDERAL COM 18C 001H**

ELEV. = 3698.9'

3.986± ACRES

LAT. = 32.8330869°N (NAD83)

LONG. = 104.1238843°W

NMSP EAST (FT)

N = 666873.72

E = 605670.34

- 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, A NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR CERTIFY THAT I DIRECTED AND SUPERVISED FOR THIS SURVEY, THAT THIS SURVEY WAS MADE AND CORRECTED TO THE BEST OF MY KNOWLEDGE AND BELIEF AND THAT I HAVE COMPLIED WITH THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO.

FILMON F. JARAMILLO, REGISTERED PROFESSIONAL SURVEYOR

**MADRON SURVEYING, INC.**

301 SOUTH CANAL  
(575) 234-3341

**LONGFELLOW ENERGY, LP**

**OZZY FEDERAL COM 18C 001H**

LOCATED 1640 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.

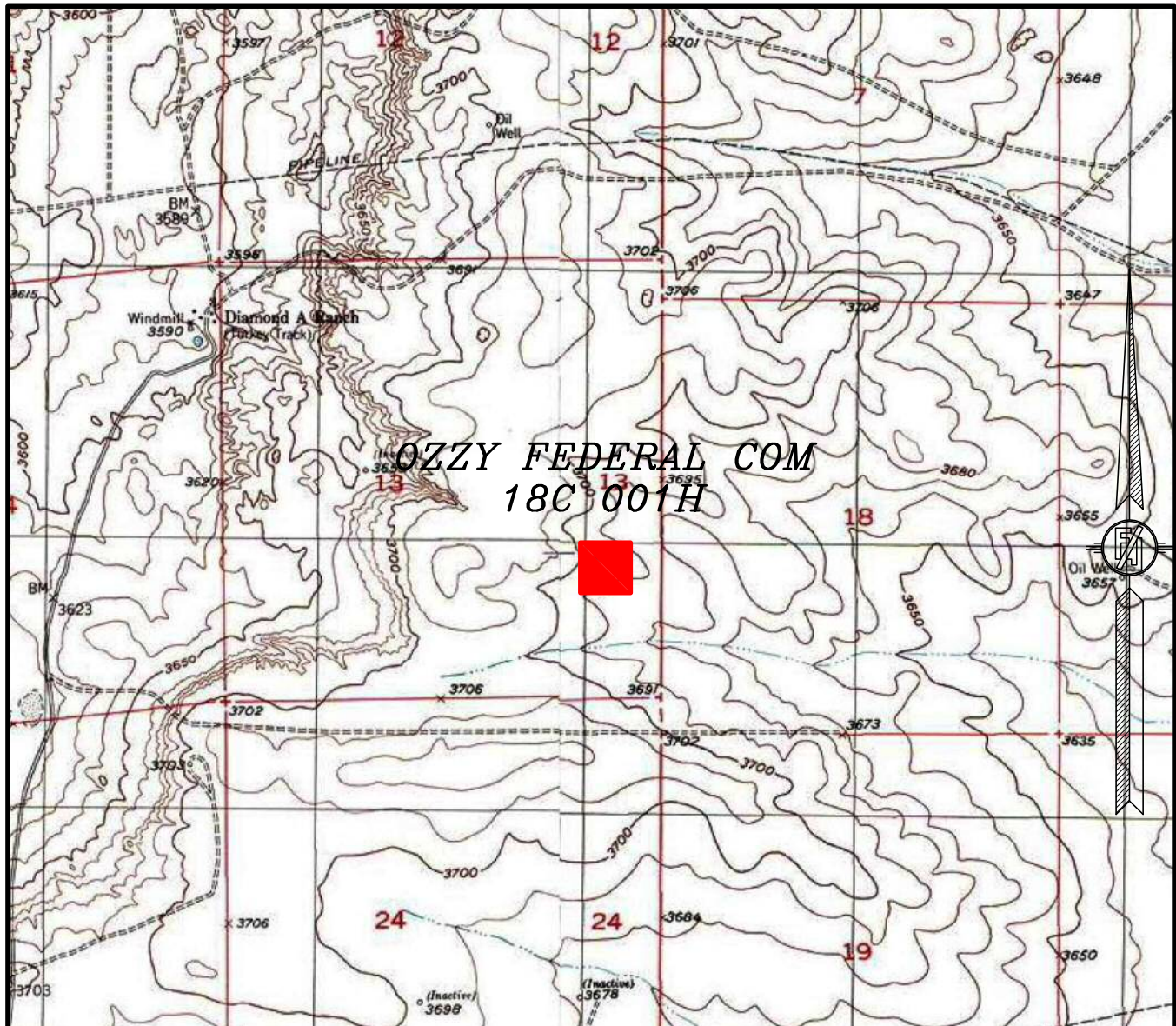
EDDY COUNTY, STATE OF NEW MEXICO

MAY 26, 2021

SURVEY NO. 8389B

CARLSBAD, NEW MEXICO

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 001H**  
 LOCATED 1640 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

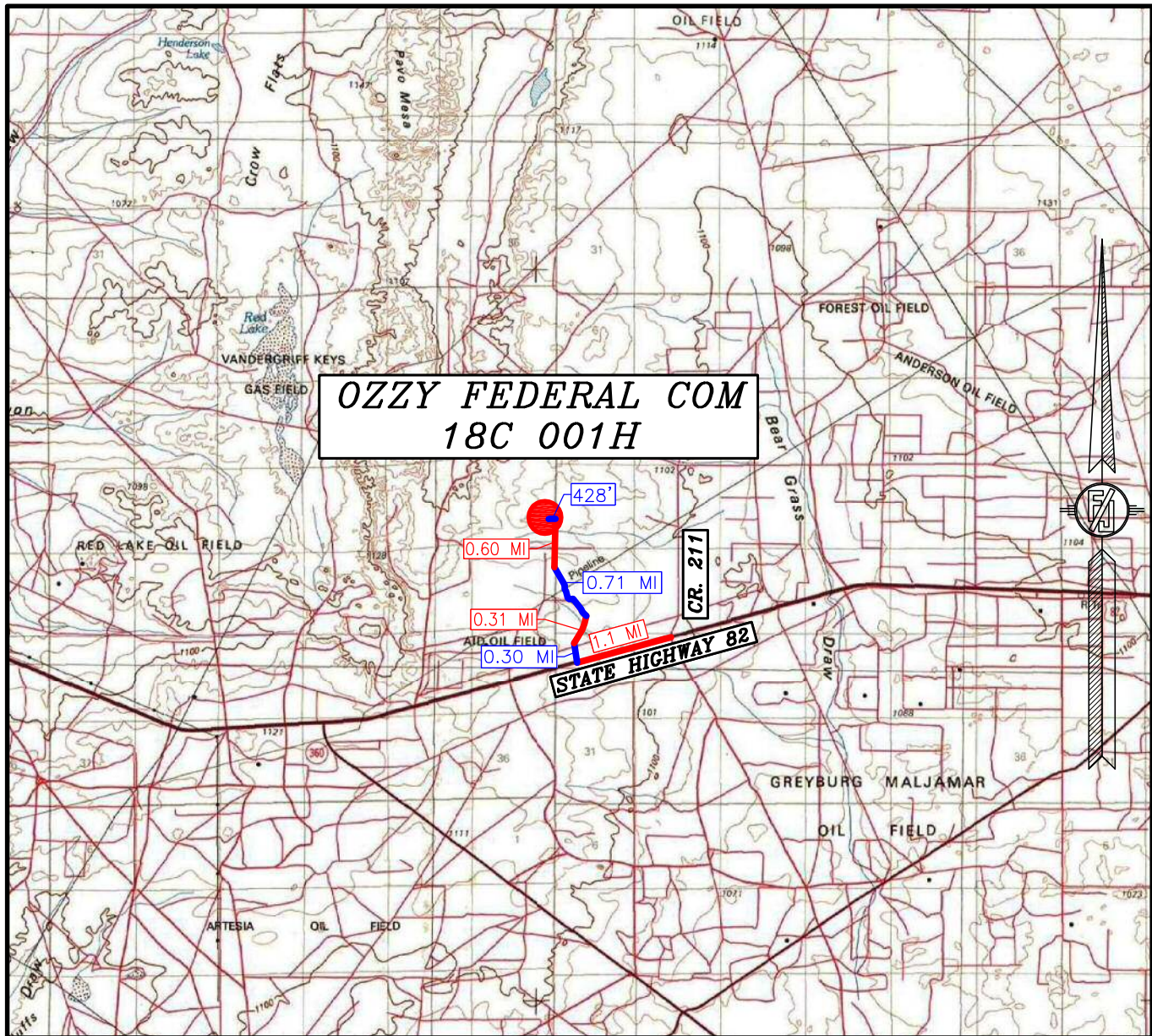
MAY 26, 2021

SURVEY NO. 8389B

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 001H**  
LOCATED 1640 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. 8389B  
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 001H**  
 LOCATED 1640 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

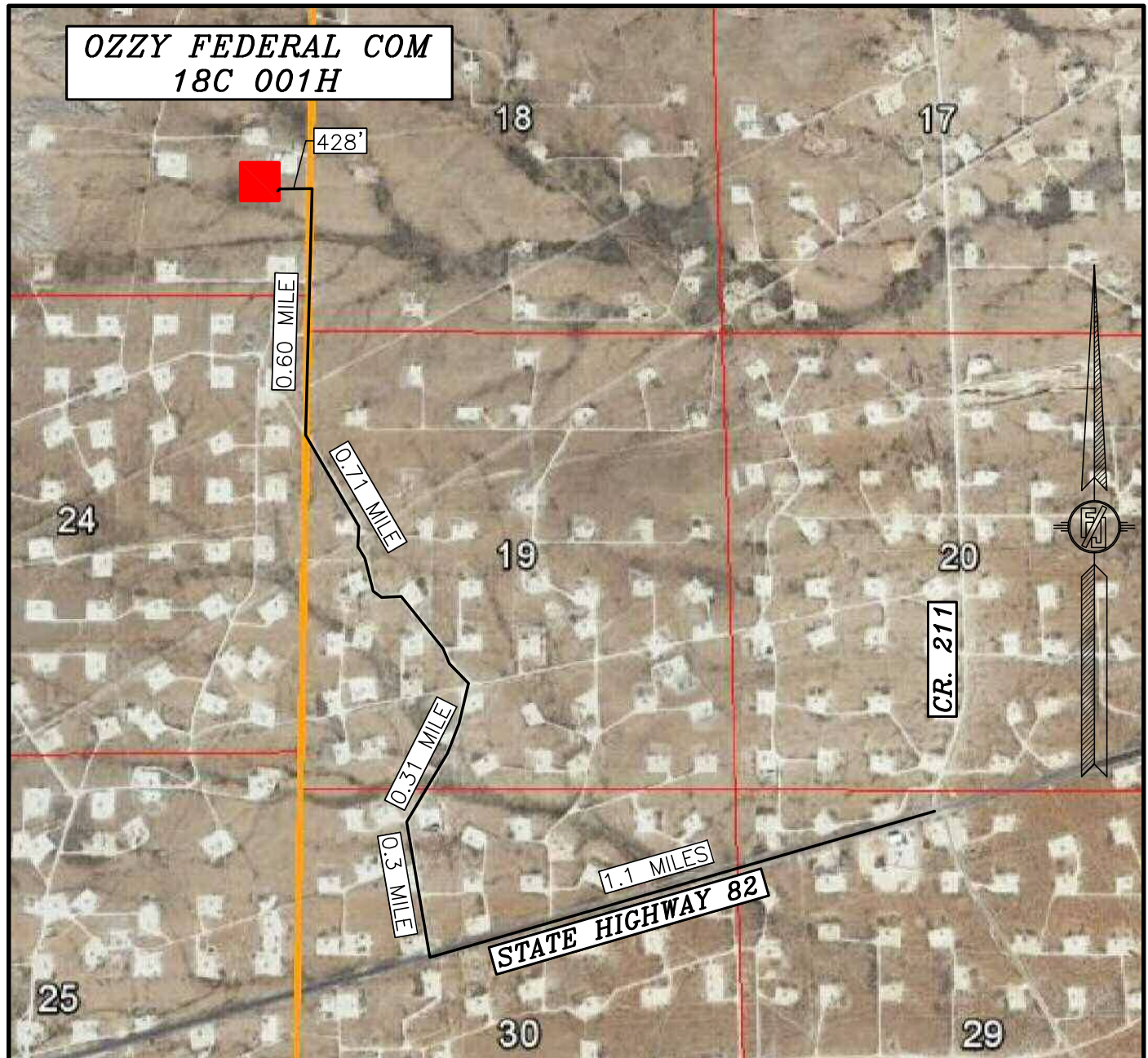
MAY 26, 2021

SURVEY NO. 8389B

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 001H**  
 LOCATED 1640 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

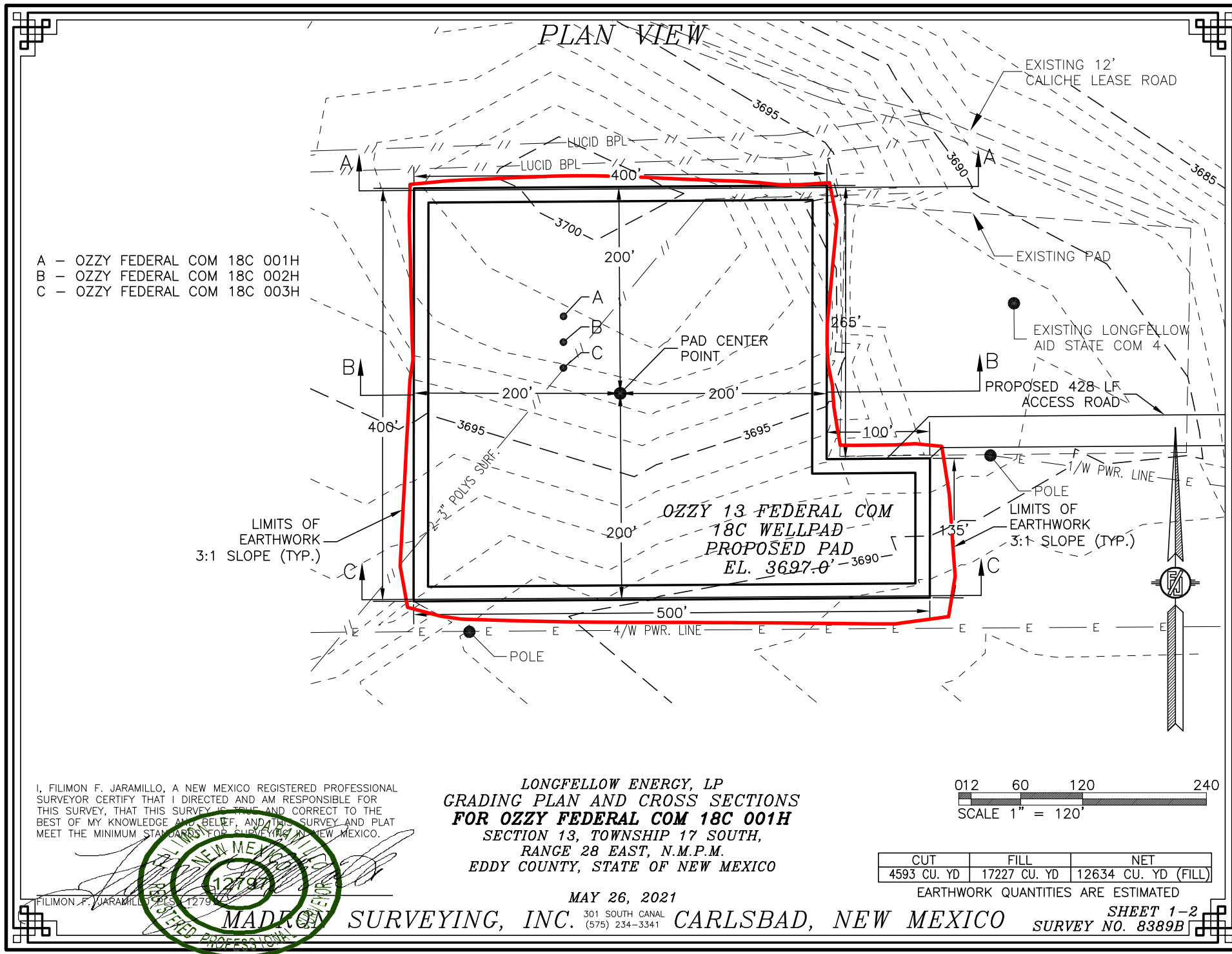
MAY 26, 2021

SURVEY NO. 8389B

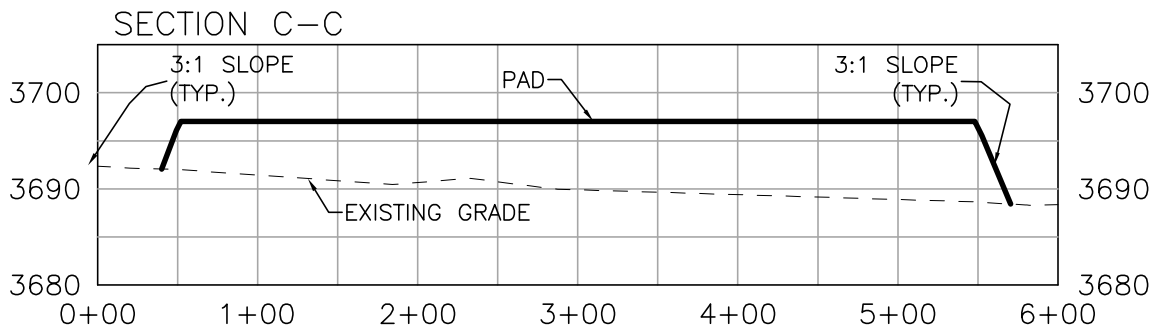
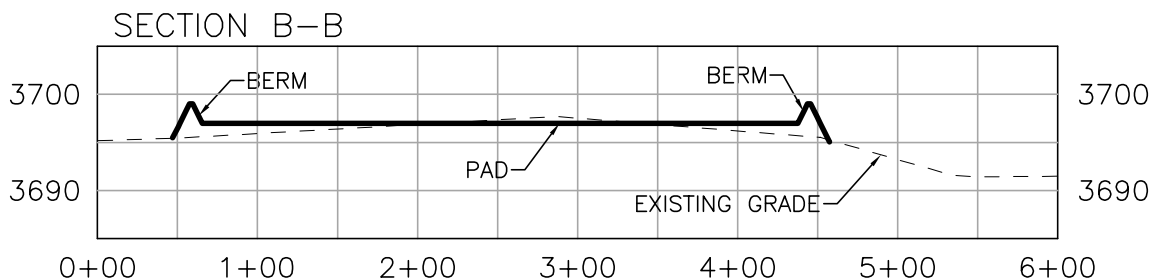
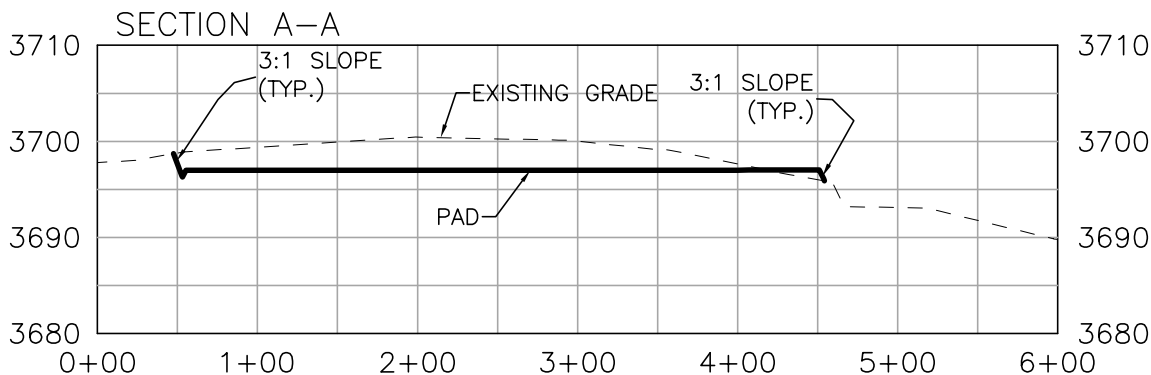
MADRON SURVEYING, INC.

301 SOUTH CANAL  
 (575) 234-3341

CARLSBAD, NEW MEXICO



# 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.

FILIMON F. JARAMILLO 12797

LONGFELLOW ENERGY, LP  
GRADING PLAN AND CROSS SECTIONS  
FOR OZZY FEDERAL COM 18C 001H  
SECTION 13, TOWNSHIP 17 SOUTH,  
RANGE 28 EAST, N.M.P.M.  
EDDY COUNTY, STATE OF NEW MEXICO

MAY 26, 2021

301 SOUTH CANAL  
(575) 234-3341

MADRON SURVEYING, INC. CARLSBAD, 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) |

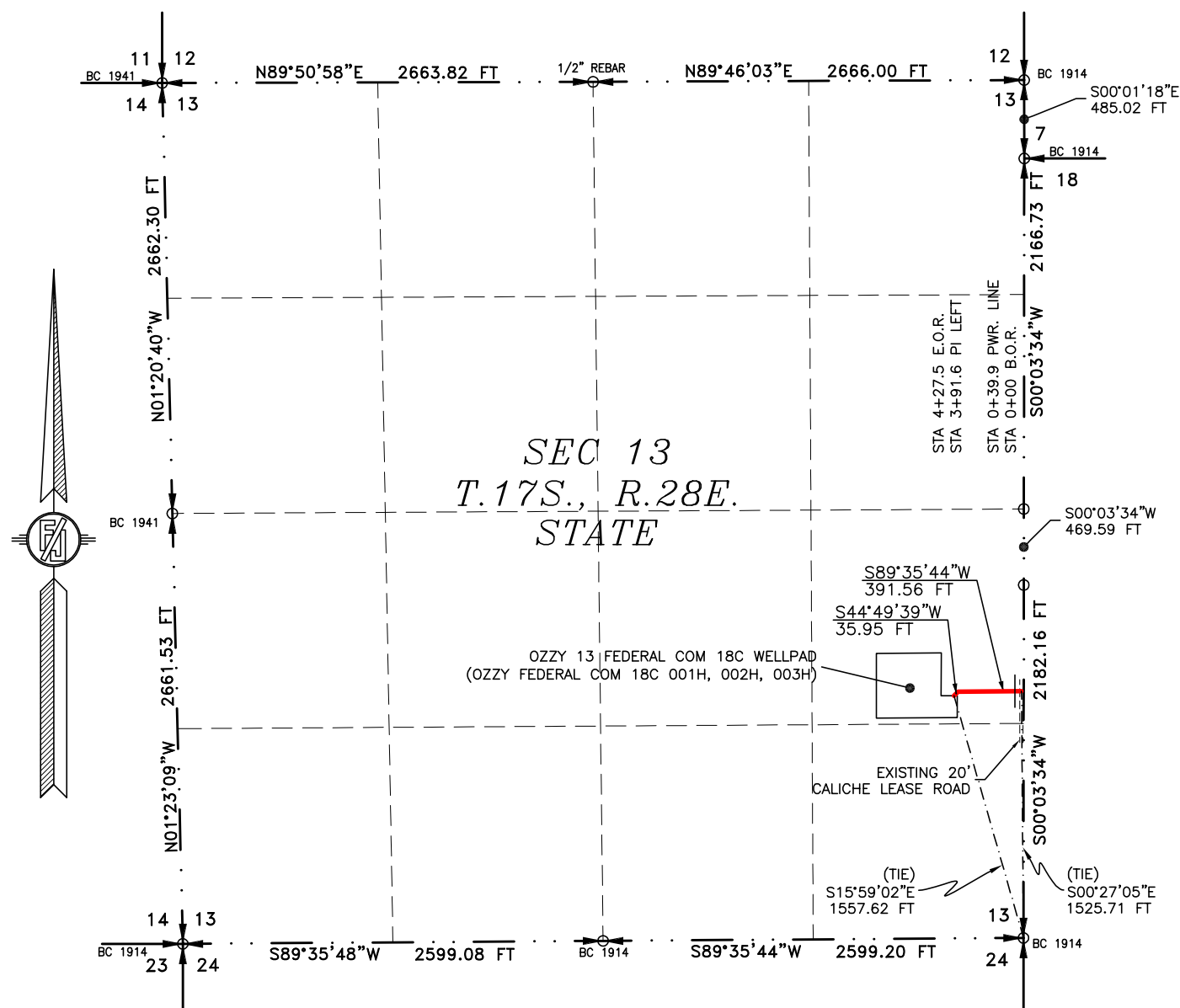
EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 2-2  
SURVEY NO. 8389B

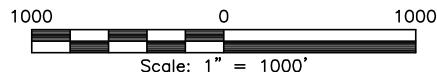
**ACCESS ROAD PLAT**

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.

SHEET: 1-2

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 DAY OF MAY 2021

FILIMON F. JARAMILLO  
 12797  
 FILIMON F. JARAMILLO PLS. 12797

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

SURVEY NO. 8389B

**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

FILIMON F. JARAMILLO PLS 12797

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

**SURVEY NO. 8389B**



Company: Longfellow Energy  
Project: Eddy Co., NM (Nad-83)  
Site: OZZY FED COM 18C  
Well: 001H  
Wellbore: Wellbore #1  
Rig:  
Design: Plan #2 / 19:37, June 03 2021



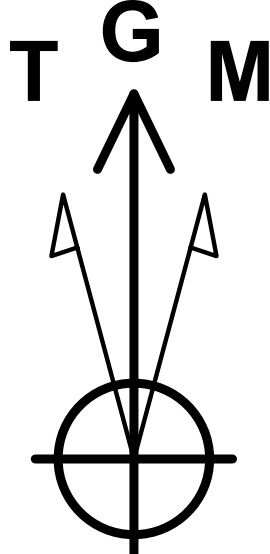
| DESIGN TARGET DETAILS                 |         |        |         |           |           |           |             |
|---------------------------------------|---------|--------|---------|-----------|-----------|-----------|-------------|
| Name                                  | TVD     | +N/-S  | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |
| PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL | 0.00    | 0.00   | 0.00    | 666873.72 | 605670.34 | 32.833087 | -104.123884 |
| PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL  | 4070.00 | 227.51 | 5594.73 | 667101.23 | 611265.07 | 32.833680 | -104.105668 |
| PLAT/ OZZY #1H FTP: 2318 FSL, 100 FWL | 4070.00 | 215.86 | 865.23  | 667089.58 | 606535.57 | 32.833675 | -104.121066 |
| PLAT/ OZZY #1H LTP: 2318 FSL, 100 FEL | 4070.00 | 227.68 | 5514.73 | 667101.40 | 611185.07 | 32.833681 | -104.105929 |

WELL DETAILS: 001H

| EST RKB @ 3715.90usft<br>3698.90 |       |           |           |           |             |
|----------------------------------|-------|-----------|-----------|-----------|-------------|
| +N/-S                            | +E/-W | Northing  | Easting   | Latitude  | Longitude   |
| 0.00                             | 0.00  | 666873.72 | 605670.34 | 32.833087 | -104.123884 |

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   | 599.92  | 6.00  | 52.55 | 599.37  | 9.54   | 12.45   | 2.00  | 12.48   |
| 4   | 3523.95 | 6.00  | 52.55 | 3507.39 | 195.35 | 255.03  | 0.00  | 255.50  |
| 5   | 4076.98 | 60.00 | 89.86 | 3956.03 | 215.06 | 539.90  | 10.00 | 540.43  |
| 6   | 4176.98 | 60.00 | 89.86 | 4006.03 | 215.28 | 626.50  | 0.00  | 627.03  |
| 7   | 4426.98 | 90.00 | 89.86 | 4070.00 | 215.86 | 865.23  | 12.00 | 865.76  |
| 8   | 9076.49 | 90.00 | 89.86 | 4070.00 | 227.31 | 5514.74 | 0.00  | 5515.27 |
| 9   | 9156.48 | 90.00 | 89.86 | 4070.00 | 227.51 | 5594.73 | 0.00  | 5595.27 |

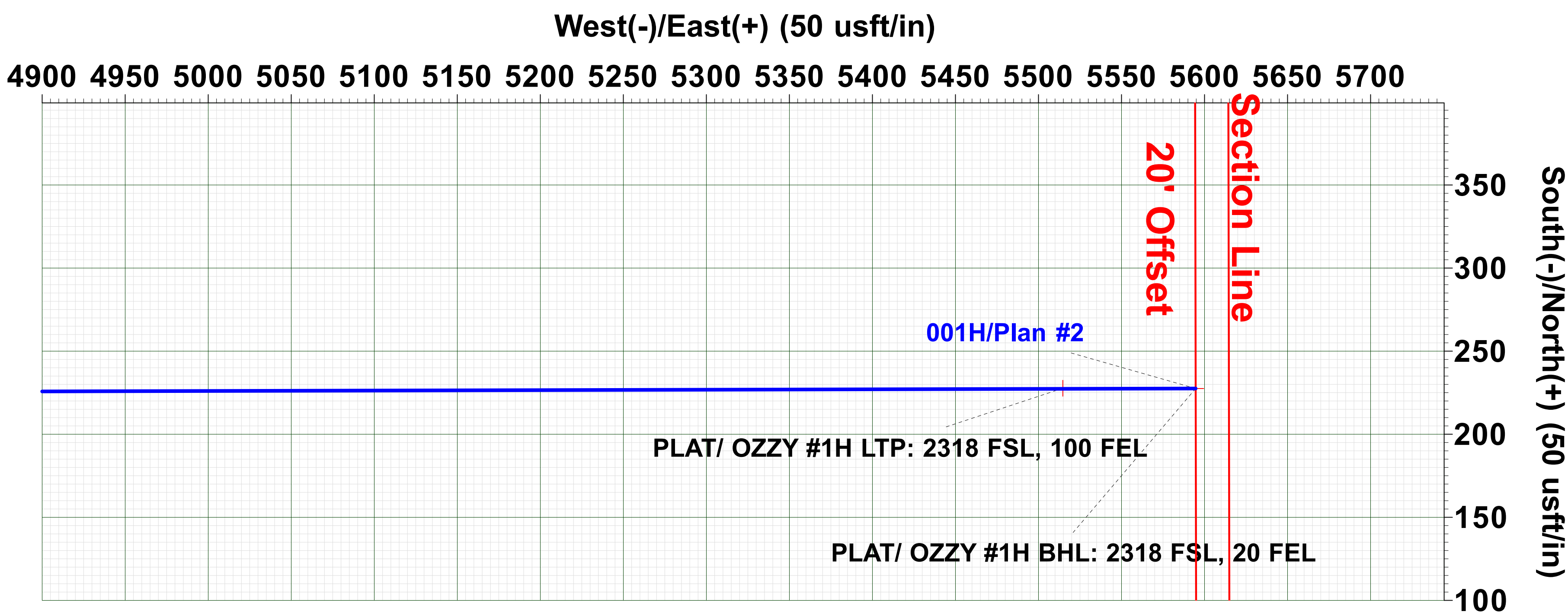
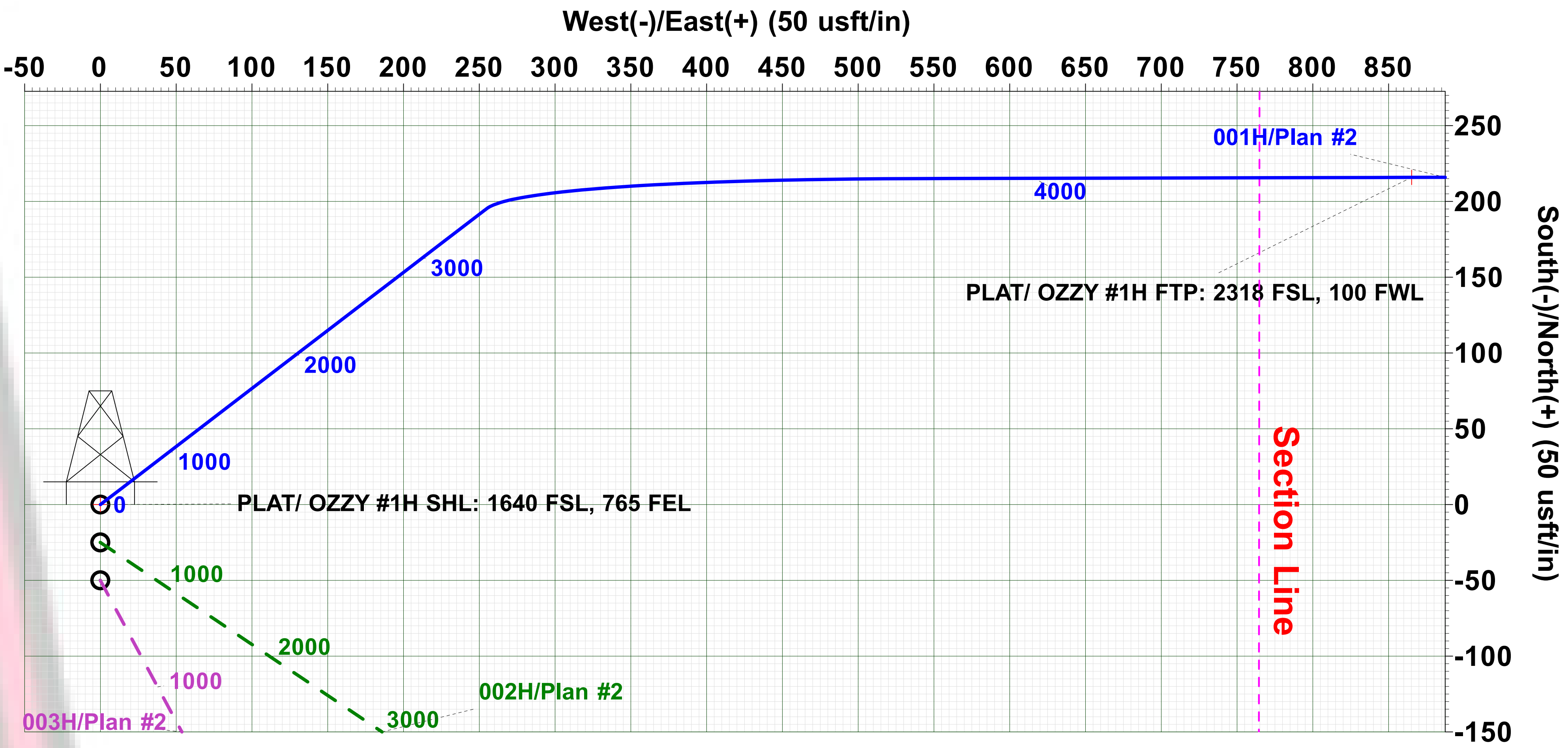
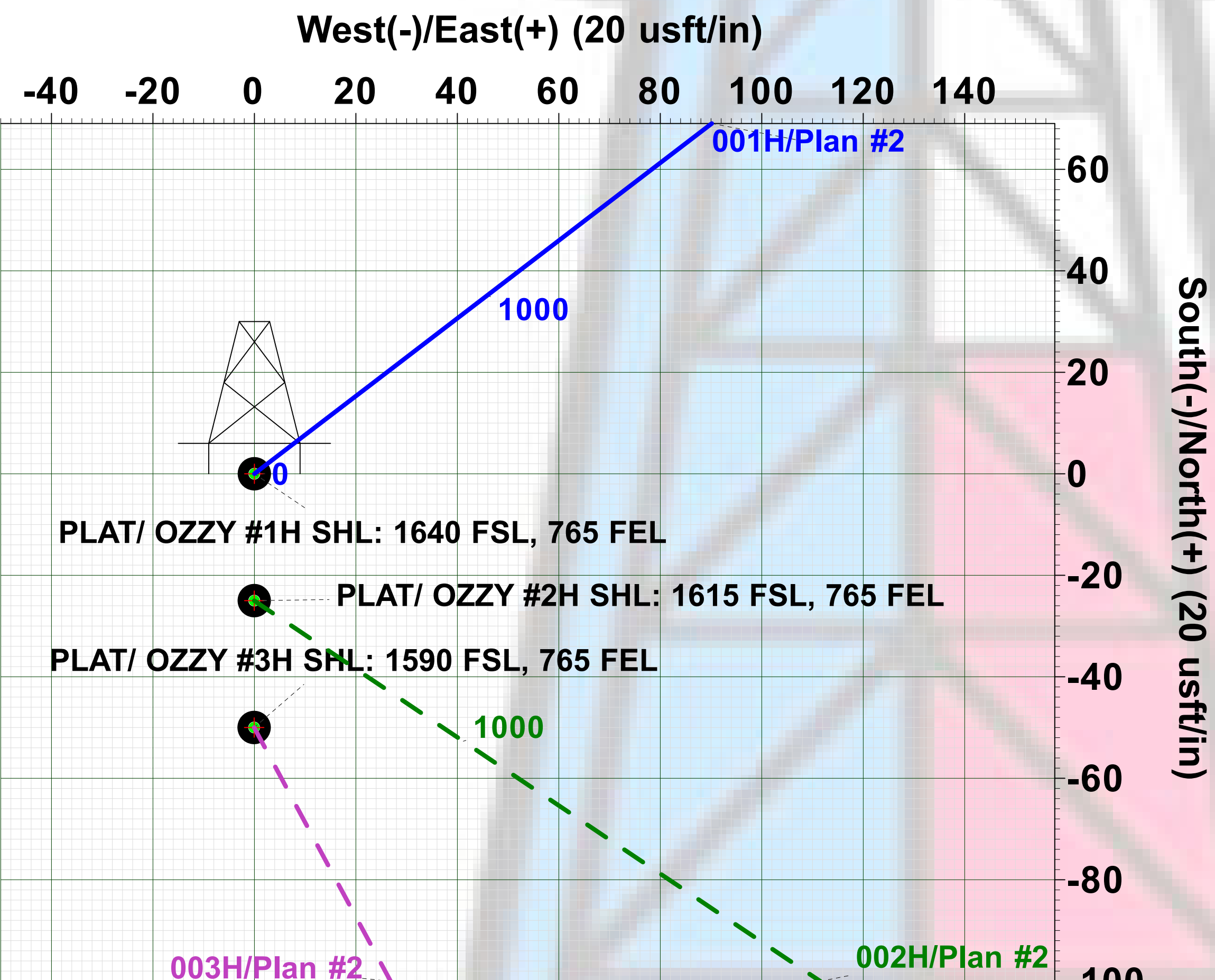
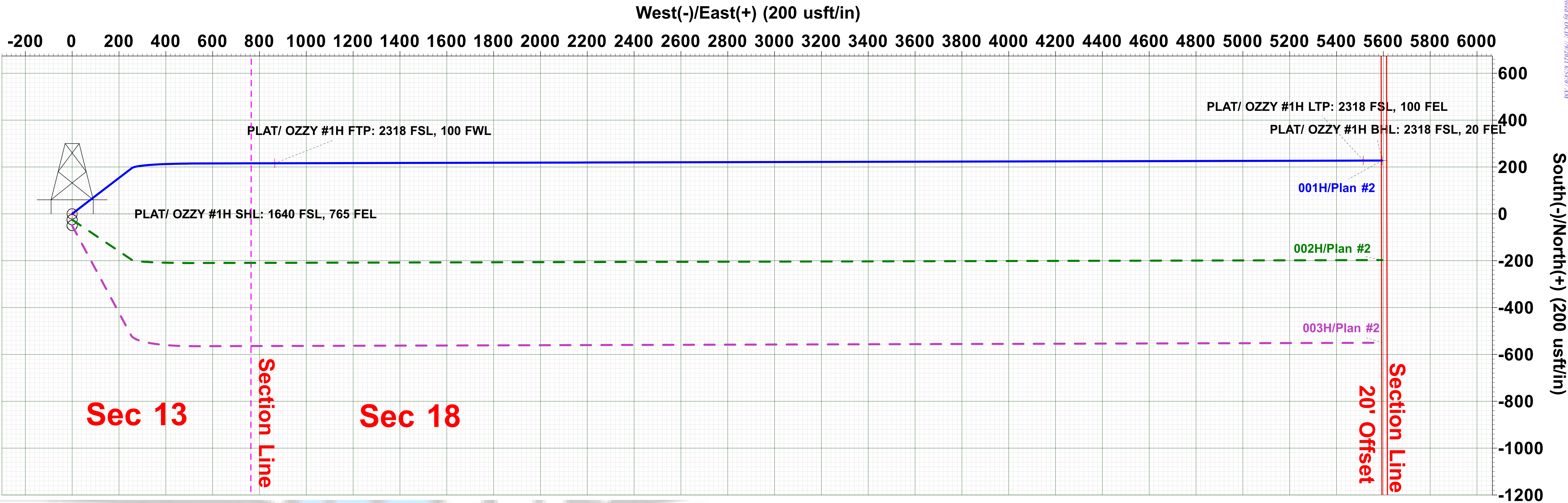


Azimuths to Grid North  
True North: -0.11°  
Magnetic North: 6.74°  
  
Magnetic Field  
Strength: 47797.9snT  
Dip Angle: 60.37°  
Date: 6/2/2021  
Model: IGRF2020

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: 47797.87533843nT



Disclaimer:

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

Plan: Plan #2 (001H/Wellbore #1)

Created By: Matthew May Date: 19:37, June 03 2021



## Longfellow Energy

Eddy Co., NM (Nad-83)

OZZY FED COM 18C

001H

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: 001H  
Wellbore: Wellbore #1  
Rig:  
Design: Plan #2 / 19:37, June 03 2021



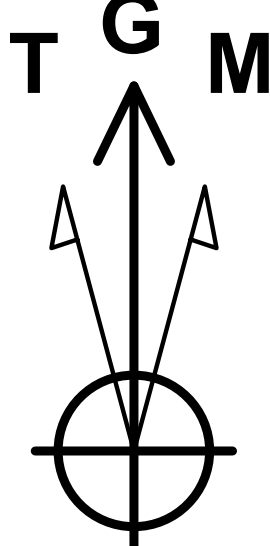
| DESIGN TARGET DETAILS                 |         |        |         |           |           |           |             |
|---------------------------------------|---------|--------|---------|-----------|-----------|-----------|-------------|
| Name                                  | TVD     | +N/-S  | +E/-W   | Northing  | Easting   | Latitude  | Longitude   |
| PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL | 0.00    | 0.00   | 0.00    | 666873.72 | 605670.34 | 32.833087 | -104.123884 |
| PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL  | 4070.00 | 227.51 | 5594.73 | 667101.23 | 611265.07 | 32.833680 | -104.105668 |
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WELL DETAILS: 001H

| EST RKB @ 3715.90usft<br>3698.90 |       |           |           |           |             |  |
|----------------------------------|-------|-----------|-----------|-----------|-------------|--|
| +N/-S                            | +E/-W | Northing  | Easting   | Latitude  | Longitude   |  |
| 0.00                             | 0.00  | 666873.72 | 605670.34 | 32.833087 | -104.123884 |  |

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   | 599.92  | 6.00  | 52.55 | 599.37  | 9.54   | 12.45   | 2.00  | 12.48   |
| 4   | 3523.95 | 6.00  | 52.55 | 3507.39 | 195.35 | 255.03  | 0.00  | 255.50  |
| 5   | 4076.98 | 60.00 | 89.86 | 3956.03 | 215.06 | 539.90  | 10.00 | 540.43  |
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| 7   | 4426.98 | 90.00 | 89.86 | 4070.00 | 215.86 | 865.23  | 12.00 | 865.76  |
| 8   | 9076.49 | 90.00 | 89.86 | 4070.00 | 227.31 | 5514.74 | 0.00  | 5515.27 |
| 9   | 9156.48 | 90.00 | 89.86 | 4070.00 | 227.51 | 5594.73 | 0.00  | 5595.27 |

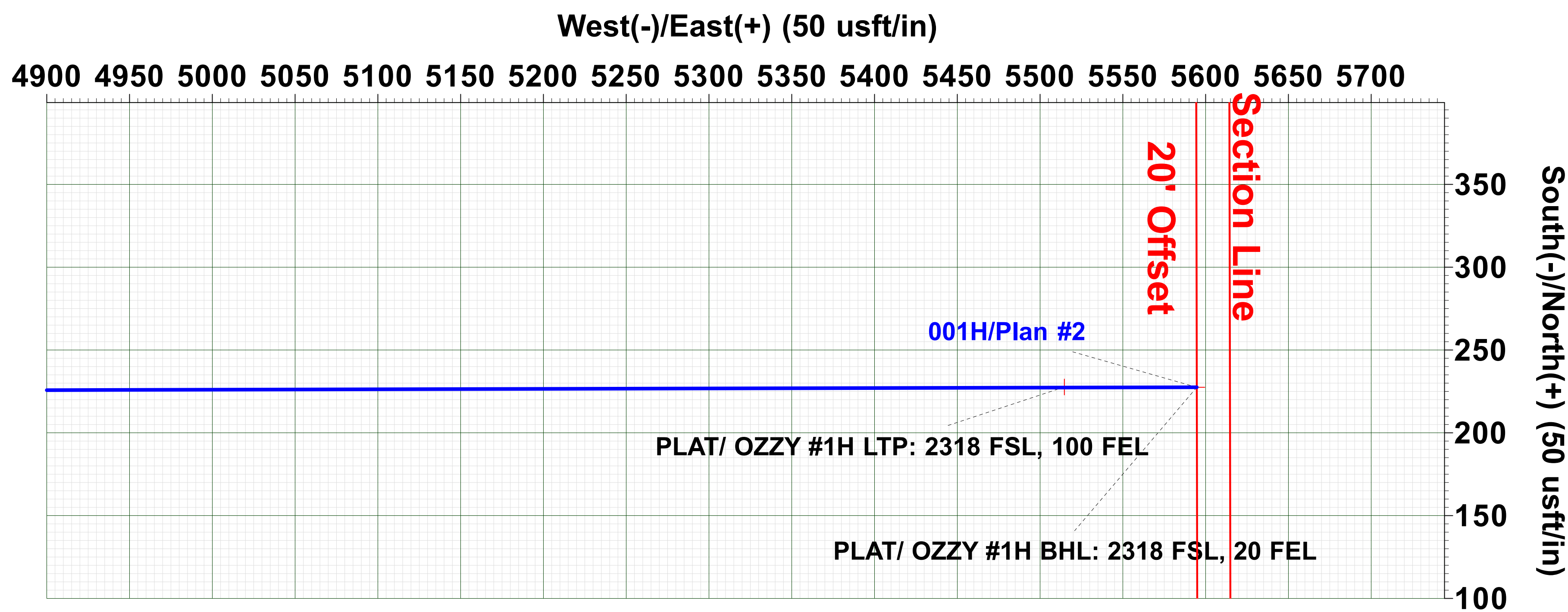
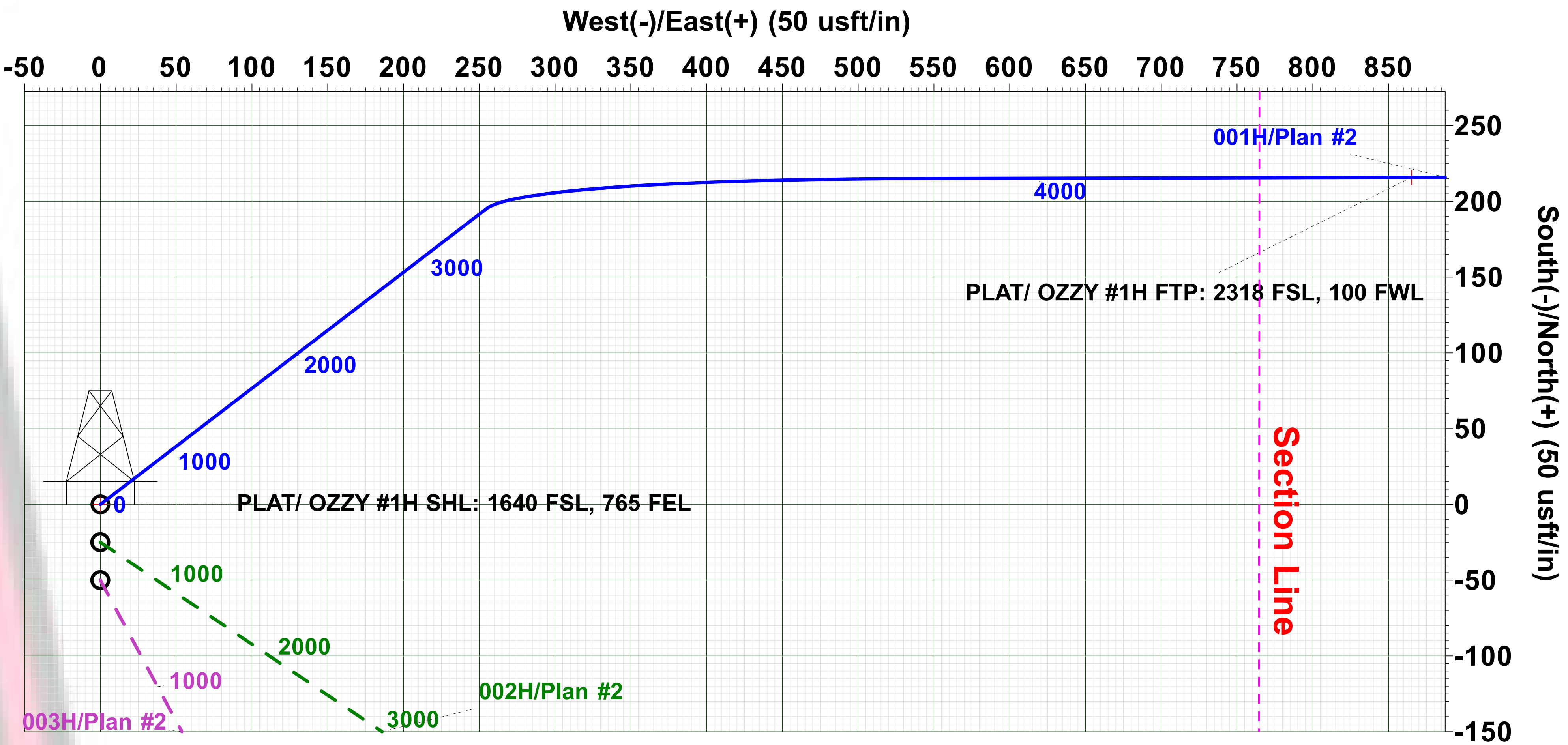
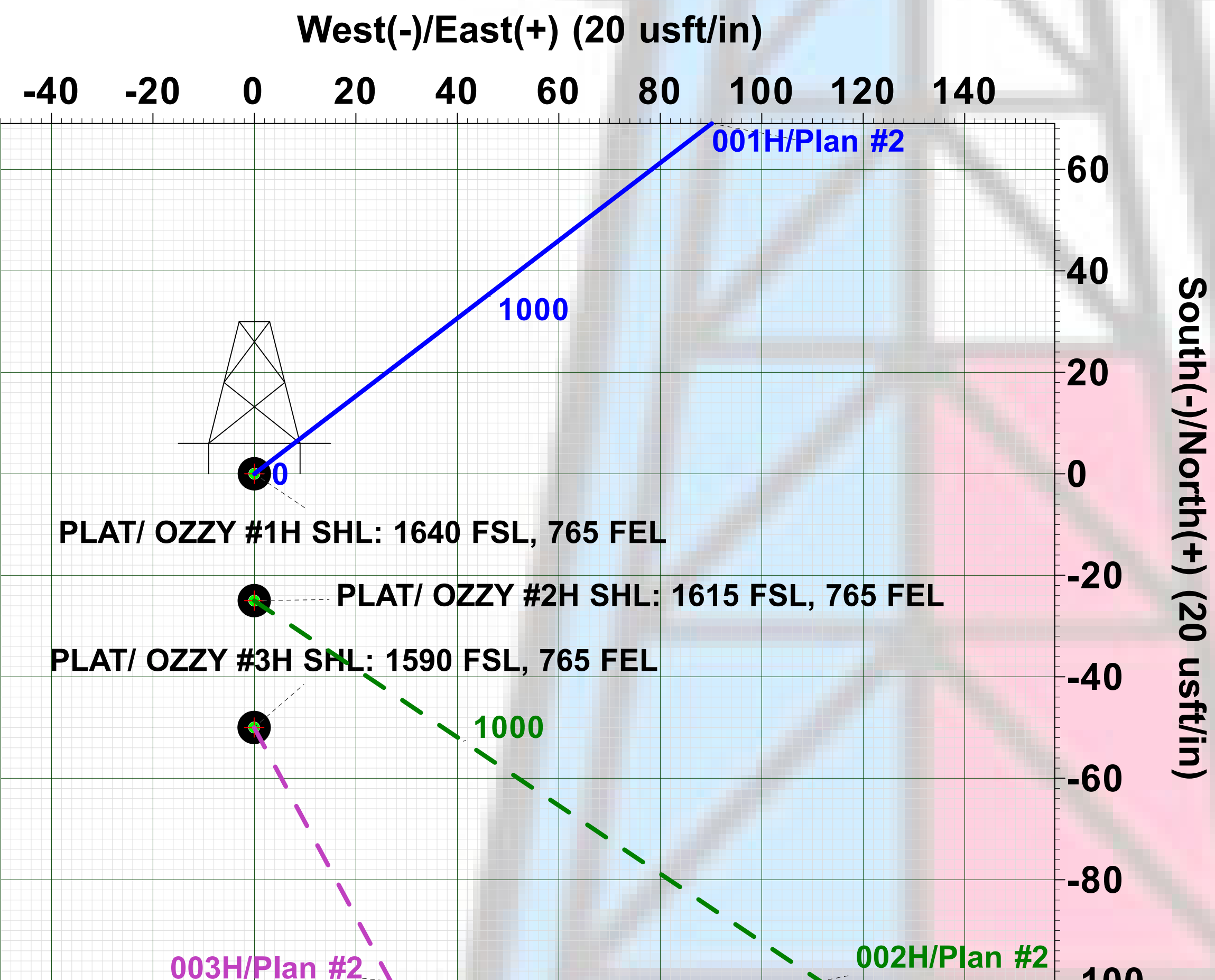
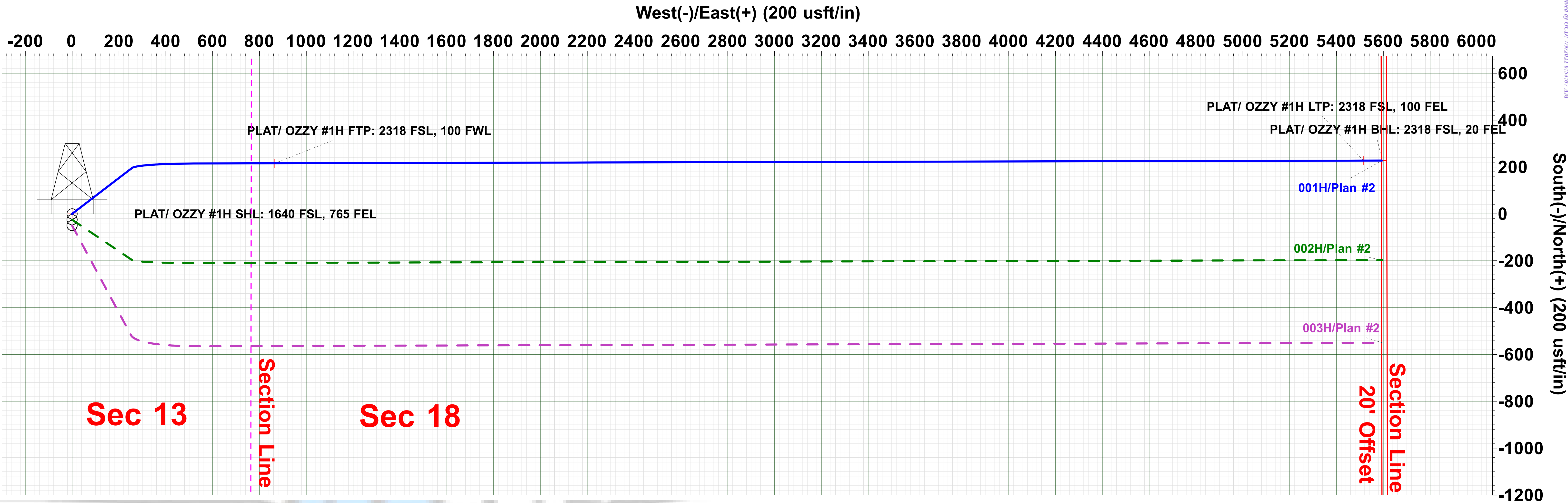


Azimuths to Grid North  
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Magnetic North: 6.74°  
  
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Dip Angle: 60.37°  
Date: 6/2/2021  
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PROJECT DETAILS: Eddy Co., NM (Nad-83)  
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Magnetic Dip Angle: 60.372°  
Magnetic Field Strength: 47797.87533843nT



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Plan: Plan #2 (001H/Wellbore #1)

Created By: Matthew May Date: 19:37, June 03 2021

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

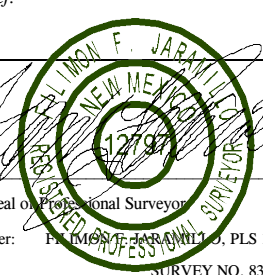
**WELL LOCATION AND ACREAGE DEDICATION PLAT**

| <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>001H</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>3698.9</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>1640</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>2318</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. 13<br/>LAT. = 32.8431631°N<br/>LONG. = 104.1213595°W<br/>NMSP EAST (FT)<br/>N = 670541.18<br/>E = 606438.49</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. = 104.1056681°W<br/>NMSP EAST (FT)<br/>N = 667101.23<br/>E = 611265.07</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 = 664789.39<br/>E = 608640.89</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><b>OZZY FEDERAL COM 18C 001H</b><br/>ELEV. = 3698.9'<br/>LAT. = 32.8330869°N (NAD83)<br/>LONG. = 104.1238843°W<br/>NMSP EAST (FT) DNF<br/>N = 666873.72<br/>E = 605670.34</p> <p><b>LAST TAKE POINT</b><br/>2318' FSL, 100' FEL<br/>LAT. = 32.8336814°N<br/>LONG. = 104.1059285°W</p> <p><b>FIRST TAKE POINT</b><br/>2305' FSL, 100' FWL<br/>LAT. = 32.8336755°N<br/>LONG. = 104.1210660°W</p> <p><b>BOTTOM OF HOLE</b><br/>LAT. = 32.8336805°N<br/>LONG. = 104.1056681°W</p> <p>SHL 765'<br/>FTP 1640'<br/>LTP 2318'</p> |  | <p><b><sup>17</sup> OPERATOR CERTIFICATION</b><br/>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><sup>18</sup> SURVEYOR CERTIFICATION</b><br/>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: PL 12797</p> <p>SURVEY NO. 8389B</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 001H                  | <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                 | 001H  |           |                     |                 |               |               |
| Well Position        | +N/-S | 0.00 usft | Northing:           | 666,873.72 usft | Latitude:     | 32.833087     |
|                      | +E/-W | 0.00 usft | Easting:            | 605,670.34 usft | Longitude:    | -104.123885   |
| Position Uncertainty |       | 0.00 usft | Wellhead Elevation: |                 | Ground Level: | 3,698.90 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               | 47,797.87533843            |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <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                 | 89.86                |

|                                 |                        |                          |                       |                       |
|---------------------------------|------------------------|--------------------------|-----------------------|-----------------------|
| <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                   | 9,156.48                 | 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          |                  |
| 599.92                       | 6.00                   | 52.55              | 599.37                       | 9.54                | 12.45               | 2.00                         | 2.00                        | 0.00                       | 52.548         |                  |
| 3,523.95                     | 6.00                   | 52.55              | 3,507.39                     | 195.35              | 255.03              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 4,076.98                     | 60.00                  | 89.86              | 3,956.03                     | 215.06              | 539.90              | 10.00                        | 9.76                        | 6.75                       | 39.678         |                  |
| 4,176.98                     | 60.00                  | 89.86              | 4,006.03                     | 215.28              | 626.50              | 0.00                         | 0.00                        | 0.00                       | 0.000          |                  |
| 4,426.98                     | 90.00                  | 89.86              | 4,070.00                     | 215.86              | 865.23              | 12.00                        | 12.00                       | 0.00                       | 0.000          | PLAT/ OZZY #1H F |
| 9,076.49                     | 90.00                  | 89.86              | 4,070.00                     | 227.31              | 5,514.74            | 0.00                         | 0.00                        | 0.00                       | 0.000          | PLAT/ OZZY #1H L |
| 9,156.48                     | 90.00                  | 89.86              | 4,070.00                     | 227.51              | 5,594.73            | 0.00                         | 0.00                        | 0.00                       | 0.000          | PLAT/ OZZY #1H B |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 001H                  | <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                |
| <b>PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL</b> |                 |             |                       |              |              |                         |                       |                      |                     |
| 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            | 52.55       | 399.98                | 1.06         | 1.39         | 1.39                    | 2.00                  | 2.00                 | 0.00                |
| 500.00                                       | 4.00            | 52.55       | 499.84                | 4.24         | 5.54         | 5.55                    | 2.00                  | 2.00                 | 0.00                |
| 599.92                                       | 6.00            | 52.55       | 599.37                | 9.54         | 12.45        | 12.48                   | 2.00                  | 2.00                 | 0.00                |
| 700.00                                       | 6.00            | 52.55       | 698.90                | 15.90        | 20.75        | 20.79                   | 0.00                  | 0.00                 | 0.00                |
| 800.00                                       | 6.00            | 52.55       | 798.36                | 22.25        | 29.05        | 29.10                   | 0.00                  | 0.00                 | 0.00                |
| 900.00                                       | 6.00            | 52.55       | 897.81                | 28.61        | 37.35        | 37.42                   | 0.00                  | 0.00                 | 0.00                |
| 1,000.00                                     | 6.00            | 52.55       | 997.26                | 34.96        | 45.64        | 45.73                   | 0.00                  | 0.00                 | 0.00                |
| 1,100.00                                     | 6.00            | 52.55       | 1,096.71              | 41.32        | 53.94        | 54.04                   | 0.00                  | 0.00                 | 0.00                |
| 1,200.00                                     | 6.00            | 52.55       | 1,196.17              | 47.67        | 62.23        | 62.35                   | 0.00                  | 0.00                 | 0.00                |
| 1,300.00                                     | 6.00            | 52.55       | 1,295.62              | 54.03        | 70.53        | 70.66                   | 0.00                  | 0.00                 | 0.00                |
| 1,400.00                                     | 6.00            | 52.55       | 1,395.07              | 60.38        | 78.83        | 78.97                   | 0.00                  | 0.00                 | 0.00                |
| 1,500.00                                     | 6.00            | 52.55       | 1,494.52              | 66.73        | 87.12        | 87.29                   | 0.00                  | 0.00                 | 0.00                |
| 1,600.00                                     | 6.00            | 52.55       | 1,593.98              | 73.09        | 95.42        | 95.60                   | 0.00                  | 0.00                 | 0.00                |
| 1,700.00                                     | 6.00            | 52.55       | 1,693.43              | 79.44        | 103.71       | 103.91                  | 0.00                  | 0.00                 | 0.00                |
| 1,800.00                                     | 6.00            | 52.55       | 1,792.88              | 85.80        | 112.01       | 112.22                  | 0.00                  | 0.00                 | 0.00                |
| 1,900.00                                     | 6.00            | 52.55       | 1,892.33              | 92.15        | 120.31       | 120.53                  | 0.00                  | 0.00                 | 0.00                |
| 2,000.00                                     | 6.00            | 52.55       | 1,991.79              | 98.51        | 128.60       | 128.84                  | 0.00                  | 0.00                 | 0.00                |
| 2,100.00                                     | 6.00            | 52.55       | 2,091.24              | 104.86       | 136.90       | 137.15                  | 0.00                  | 0.00                 | 0.00                |
| 2,200.00                                     | 6.00            | 52.55       | 2,190.69              | 111.22       | 145.19       | 145.47                  | 0.00                  | 0.00                 | 0.00                |
| 2,300.00                                     | 6.00            | 52.55       | 2,290.14              | 117.57       | 153.49       | 153.78                  | 0.00                  | 0.00                 | 0.00                |
| 2,400.00                                     | 6.00            | 52.55       | 2,389.60              | 123.93       | 161.79       | 162.09                  | 0.00                  | 0.00                 | 0.00                |
| 2,500.00                                     | 6.00            | 52.55       | 2,489.05              | 130.28       | 170.08       | 170.40                  | 0.00                  | 0.00                 | 0.00                |
| 2,600.00                                     | 6.00            | 52.55       | 2,588.50              | 136.63       | 178.38       | 178.71                  | 0.00                  | 0.00                 | 0.00                |
| 2,700.00                                     | 6.00            | 52.55       | 2,687.95              | 142.99       | 186.67       | 187.02                  | 0.00                  | 0.00                 | 0.00                |
| 2,800.00                                     | 6.00            | 52.55       | 2,787.41              | 149.34       | 194.97       | 195.33                  | 0.00                  | 0.00                 | 0.00                |
| 2,900.00                                     | 6.00            | 52.55       | 2,886.86              | 155.70       | 203.27       | 203.65                  | 0.00                  | 0.00                 | 0.00                |
| 3,000.00                                     | 6.00            | 52.55       | 2,986.31              | 162.05       | 211.56       | 211.96                  | 0.00                  | 0.00                 | 0.00                |
| 3,100.00                                     | 6.00            | 52.55       | 3,085.76              | 168.41       | 219.86       | 220.27                  | 0.00                  | 0.00                 | 0.00                |
| 3,200.00                                     | 6.00            | 52.55       | 3,185.22              | 174.76       | 228.15       | 228.58                  | 0.00                  | 0.00                 | 0.00                |
| 3,300.00                                     | 6.00            | 52.55       | 3,284.67              | 181.12       | 236.45       | 236.89                  | 0.00                  | 0.00                 | 0.00                |
| 3,400.00                                     | 6.00            | 52.55       | 3,384.12              | 187.47       | 244.75       | 245.20                  | 0.00                  | 0.00                 | 0.00                |
| 3,500.00                                     | 6.00            | 52.55       | 3,483.57              | 193.83       | 253.04       | 253.51                  | 0.00                  | 0.00                 | 0.00                |
| 3,523.95                                     | 6.00            | 52.55       | 3,507.39              | 195.35       | 255.03       | 255.50                  | 0.00                  | 0.00                 | 0.00                |
| 3,550.00                                     | 8.17            | 64.33       | 3,533.24              | 196.98       | 257.78       | 258.26                  | 10.00                 | 8.35                 | 45.21               |
| 3,600.00                                     | 12.80           | 74.96       | 3,582.40              | 199.96       | 266.34       | 266.83                  | 10.00                 | 9.26                 | 21.27               |
| 3,650.00                                     | 17.64           | 79.93       | 3,630.63              | 202.72       | 279.15       | 279.65                  | 10.00                 | 9.66                 | 9.94                |
| 3,700.00                                     | 22.54           | 82.80       | 3,677.58              | 205.25       | 296.13       | 296.63                  | 10.00                 | 9.81                 | 5.74                |
| 3,750.00                                     | 27.48           | 84.68       | 3,722.88              | 207.52       | 317.13       | 317.64                  | 10.00                 | 9.87                 | 3.77                |
| 3,800.00                                     | 32.43           | 86.03       | 3,766.19              | 209.52       | 342.01       | 342.52                  | 10.00                 | 9.91                 | 2.69                |
| 3,850.00                                     | 37.40           | 87.05       | 3,807.18              | 211.23       | 370.57       | 371.08                  | 10.00                 | 9.93                 | 2.05                |
| 3,900.00                                     | 42.37           | 87.87       | 3,845.53              | 212.64       | 402.58       | 403.10                  | 10.00                 | 9.95                 | 1.63                |
| 3,950.00                                     | 47.35           | 88.54       | 3,880.96              | 213.73       | 437.82       | 438.34                  | 10.00                 | 9.96                 | 1.34                |
| 4,000.00                                     | 52.33           | 89.11       | 3,913.20              | 214.51       | 476.01       | 476.54                  | 10.00                 | 9.96                 | 1.14                |
| 4,050.00                                     | 57.31           | 89.61       | 3,942.00              | 214.96       | 516.87       | 517.39                  | 10.00                 | 9.97                 | 1.00                |
| 4,076.98                                     | 60.00           | 89.86       | 3,956.03              | 215.06       | 539.90       | 540.43                  | 10.00                 | 9.97                 | 0.92                |
| 4,100.00                                     | 60.00           | 89.86       | 3,967.54              | 215.11       | 559.84       | 560.36                  | 0.00                  | 0.00                 | 0.00                |
| 4,176.98                                     | 60.00           | 89.86       | 4,006.03              | 215.28       | 626.50       | 627.03                  | 0.00                  | 0.00                 | 0.00                |
| 4,200.00                                     | 62.76           | 89.86       | 4,017.06              | 215.33       | 646.71       | 647.24                  | 12.00                 | 12.00                | 0.00                |
| 4,225.00                                     | 65.76           | 89.86       | 4,027.91              | 215.38       | 669.23       | 669.75                  | 12.00                 | 12.00                | 0.00                |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 001H                  | <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) |
| 4,250.00                                     | 68.76           | 89.86       | 4,037.58              | 215.44       | 692.28       | 692.81                  | 12.00                 | 12.00                | 0.00                |
| 4,275.00                                     | 71.76           | 89.86       | 4,046.02              | 215.50       | 715.81       | 716.34                  | 12.00                 | 12.00                | 0.00                |
| 4,300.00                                     | 74.76           | 89.86       | 4,053.22              | 215.56       | 739.75       | 740.28                  | 12.00                 | 12.00                | 0.00                |
| 4,325.00                                     | 77.76           | 89.86       | 4,059.15              | 215.62       | 764.03       | 764.56                  | 12.00                 | 12.00                | 0.00                |
| 4,350.00                                     | 80.76           | 89.86       | 4,063.81              | 215.68       | 788.59       | 789.12                  | 12.00                 | 12.00                | 0.00                |
| 4,375.00                                     | 83.76           | 89.86       | 4,067.17              | 215.74       | 813.36       | 813.89                  | 12.00                 | 12.00                | 0.00                |
| 4,400.00                                     | 86.76           | 89.86       | 4,069.24              | 215.80       | 838.27       | 838.80                  | 12.00                 | 12.00                | 0.00                |
| 4,426.98                                     | 90.00           | 89.86       | 4,070.00              | 215.86       | 865.23       | 865.76                  | 12.00                 | 12.00                | 0.00                |
| <b>PLAT/ OZZY #1H FTP: 2318 FSL, 100 FWL</b> |                 |             |                       |              |              |                         |                       |                      |                     |
| 4,500.00                                     | 90.00           | 89.86       | 4,070.00              | 216.04       | 938.26       | 938.78                  | 0.00                  | 0.00                 | 0.00                |
| 4,600.00                                     | 90.00           | 89.86       | 4,070.00              | 216.29       | 1,038.26     | 1,038.78                | 0.00                  | 0.00                 | 0.00                |
| 4,700.00                                     | 90.00           | 89.86       | 4,070.00              | 216.54       | 1,138.26     | 1,138.78                | 0.00                  | 0.00                 | 0.00                |
| 4,800.00                                     | 90.00           | 89.86       | 4,070.00              | 216.78       | 1,238.26     | 1,238.78                | 0.00                  | 0.00                 | 0.00                |
| 4,900.00                                     | 90.00           | 89.86       | 4,070.00              | 217.03       | 1,338.26     | 1,338.78                | 0.00                  | 0.00                 | 0.00                |
| 5,000.00                                     | 90.00           | 89.86       | 4,070.00              | 217.28       | 1,438.26     | 1,438.78                | 0.00                  | 0.00                 | 0.00                |
| 5,100.00                                     | 90.00           | 89.86       | 4,070.00              | 217.52       | 1,538.26     | 1,538.78                | 0.00                  | 0.00                 | 0.00                |
| 5,200.00                                     | 90.00           | 89.86       | 4,070.00              | 217.77       | 1,638.26     | 1,638.78                | 0.00                  | 0.00                 | 0.00                |
| 5,300.00                                     | 90.00           | 89.86       | 4,070.00              | 218.01       | 1,738.26     | 1,738.78                | 0.00                  | 0.00                 | 0.00                |
| 5,400.00                                     | 90.00           | 89.86       | 4,070.00              | 218.26       | 1,838.26     | 1,838.78                | 0.00                  | 0.00                 | 0.00                |
| 5,500.00                                     | 90.00           | 89.86       | 4,070.00              | 218.51       | 1,938.26     | 1,938.78                | 0.00                  | 0.00                 | 0.00                |
| 5,600.00                                     | 90.00           | 89.86       | 4,070.00              | 218.75       | 2,038.26     | 2,038.78                | 0.00                  | 0.00                 | 0.00                |
| 5,700.00                                     | 90.00           | 89.86       | 4,070.00              | 219.00       | 2,138.26     | 2,138.78                | 0.00                  | 0.00                 | 0.00                |
| 5,800.00                                     | 90.00           | 89.86       | 4,070.00              | 219.25       | 2,238.26     | 2,238.78                | 0.00                  | 0.00                 | 0.00                |
| 5,900.00                                     | 90.00           | 89.86       | 4,070.00              | 219.49       | 2,338.26     | 2,338.78                | 0.00                  | 0.00                 | 0.00                |
| 6,000.00                                     | 90.00           | 89.86       | 4,070.00              | 219.74       | 2,438.26     | 2,438.78                | 0.00                  | 0.00                 | 0.00                |
| 6,100.00                                     | 90.00           | 89.86       | 4,070.00              | 219.98       | 2,538.25     | 2,538.78                | 0.00                  | 0.00                 | 0.00                |
| 6,200.00                                     | 90.00           | 89.86       | 4,070.00              | 220.23       | 2,638.25     | 2,638.78                | 0.00                  | 0.00                 | 0.00                |
| 6,300.00                                     | 90.00           | 89.86       | 4,070.00              | 220.48       | 2,738.25     | 2,738.78                | 0.00                  | 0.00                 | 0.00                |
| 6,400.00                                     | 90.00           | 89.86       | 4,070.00              | 220.72       | 2,838.25     | 2,838.78                | 0.00                  | 0.00                 | 0.00                |
| 6,500.00                                     | 90.00           | 89.86       | 4,070.00              | 220.97       | 2,938.25     | 2,938.78                | 0.00                  | 0.00                 | 0.00                |
| 6,600.00                                     | 90.00           | 89.86       | 4,070.00              | 221.22       | 3,038.25     | 3,038.78                | 0.00                  | 0.00                 | 0.00                |
| 6,700.00                                     | 90.00           | 89.86       | 4,070.00              | 221.46       | 3,138.25     | 3,138.78                | 0.00                  | 0.00                 | 0.00                |
| 6,800.00                                     | 90.00           | 89.86       | 4,070.00              | 221.71       | 3,238.25     | 3,238.78                | 0.00                  | 0.00                 | 0.00                |
| 6,900.00                                     | 90.00           | 89.86       | 4,070.00              | 221.95       | 3,338.25     | 3,338.78                | 0.00                  | 0.00                 | 0.00                |
| 7,000.00                                     | 90.00           | 89.86       | 4,070.00              | 222.20       | 3,438.25     | 3,438.78                | 0.00                  | 0.00                 | 0.00                |
| 7,100.00                                     | 90.00           | 89.86       | 4,070.00              | 222.45       | 3,538.25     | 3,538.78                | 0.00                  | 0.00                 | 0.00                |
| 7,200.00                                     | 90.00           | 89.86       | 4,070.00              | 222.69       | 3,638.25     | 3,638.78                | 0.00                  | 0.00                 | 0.00                |
| 7,300.00                                     | 90.00           | 89.86       | 4,070.00              | 222.94       | 3,738.25     | 3,738.78                | 0.00                  | 0.00                 | 0.00                |
| 7,400.00                                     | 90.00           | 89.86       | 4,070.00              | 223.19       | 3,838.25     | 3,838.78                | 0.00                  | 0.00                 | 0.00                |
| 7,500.00                                     | 90.00           | 89.86       | 4,070.00              | 223.43       | 3,938.25     | 3,938.78                | 0.00                  | 0.00                 | 0.00                |
| 7,600.00                                     | 90.00           | 89.86       | 4,070.00              | 223.68       | 4,038.25     | 4,038.78                | 0.00                  | 0.00                 | 0.00                |
| 7,700.00                                     | 90.00           | 89.86       | 4,070.00              | 223.92       | 4,138.25     | 4,138.78                | 0.00                  | 0.00                 | 0.00                |
| 7,800.00                                     | 90.00           | 89.86       | 4,070.00              | 224.17       | 4,238.25     | 4,238.78                | 0.00                  | 0.00                 | 0.00                |
| 7,900.00                                     | 90.00           | 89.86       | 4,070.00              | 224.42       | 4,338.25     | 4,338.78                | 0.00                  | 0.00                 | 0.00                |
| 8,000.00                                     | 90.00           | 89.86       | 4,070.00              | 224.66       | 4,438.25     | 4,438.78                | 0.00                  | 0.00                 | 0.00                |
| 8,100.00                                     | 90.00           | 89.86       | 4,070.00              | 224.91       | 4,538.25     | 4,538.78                | 0.00                  | 0.00                 | 0.00                |
| 8,200.00                                     | 90.00           | 89.86       | 4,070.00              | 225.15       | 4,638.25     | 4,638.78                | 0.00                  | 0.00                 | 0.00                |
| 8,300.00                                     | 90.00           | 89.86       | 4,070.00              | 225.40       | 4,738.25     | 4,738.78                | 0.00                  | 0.00                 | 0.00                |
| 8,400.00                                     | 90.00           | 89.86       | 4,070.00              | 225.65       | 4,838.25     | 4,838.78                | 0.00                  | 0.00                 | 0.00                |
| 8,500.00                                     | 90.00           | 89.86       | 4,070.00              | 225.89       | 4,938.25     | 4,938.78                | 0.00                  | 0.00                 | 0.00                |
| 8,600.00                                     | 90.00           | 89.86       | 4,070.00              | 226.14       | 5,038.25     | 5,038.78                | 0.00                  | 0.00                 | 0.00                |
| 8,700.00                                     | 90.00           | 89.86       | 4,070.00              | 226.39       | 5,138.25     | 5,138.78                | 0.00                  | 0.00                 | 0.00                |
| 8,800.00                                     | 90.00           | 89.86       | 4,070.00              | 226.63       | 5,238.25     | 5,238.78                | 0.00                  | 0.00                 | 0.00                |



## Planning Report



|                  |                       |                                     |                       |
|------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Database:</b> | WBDS_SQL_2            | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Company:</b>  | Longfellow Energy     | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Project:</b>  | Eddy Co., NM (Nad-83) | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site:</b>     | OZZY FED COM 18C      | <b>North Reference:</b>             | Grid                  |
| <b>Well:</b>     | 001H                  | <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) |  |
| 8,900.00                                     | 90.00           | 89.86       | 4,070.00              | 226.88       | 5,338.25     | 5,338.78                | 0.00                  | 0.00                 | 0.00                |  |
| 9,000.00                                     | 90.00           | 89.86       | 4,070.00              | 227.12       | 5,438.25     | 5,438.78                | 0.00                  | 0.00                 | 0.00                |  |
| 9,076.49                                     | 90.00           | 89.86       | 4,070.00              | 227.31       | 5,514.74     | 5,515.27                | 0.00                  | 0.00                 | 0.00                |  |
| <b>PLAT/ OZZY #1H LTP: 2318 FSL, 100 FEL</b> |                 |             |                       |              |              |                         |                       |                      |                     |  |
| 9,100.00                                     | 90.00           | 89.86       | 4,070.00              | 227.37       | 5,538.25     | 5,538.78                | 0.00                  | 0.00                 | 0.00                |  |
| 9,156.48                                     | 90.00           | 89.86       | 4,070.00              | 227.51       | 5,594.73     | 5,595.27                | 0.00                  | 0.00                 | 0.00                |  |
| <b>PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL</b>  |                 |             |                       |              |              |                         |                       |                      |                     |  |

| 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 #1H SHI<br>- plan hits target center<br>- Point                                                                    | 0.00          | 0.00         | 0.00       | 0.00         | 0.00         | 666,873.72      | 605,670.34     | 32.833087 | -104.123885 |  |
| PLAT/ OZZY #1H LTP<br>- plan misses target center by 0.37usft at 9076.49usft MD (4070.00 TVD, 227.31 N, 5514.74 E)<br>- Point | 0.00          | 0.00         | 4,070.00   | 227.68       | 5,514.73     | 667,101.41      | 611,185.08     | 32.833681 | -104.105929 |  |
| PLAT/ OZZY #1H BHL<br>- plan hits target center<br>- Point                                                                    | 0.00          | 0.00         | 4,070.00   | 227.51       | 5,594.73     | 667,101.23      | 611,265.07     | 32.833681 | -104.105668 |  |
| PLAT/ OZZY #1H FTF<br>- plan hits target center<br>- Point                                                                    | 0.00          | 0.00         | 4,070.00   | 215.86       | 865.23       | 667,089.59      | 606,535.58     | 32.833676 | -104.121066 |  |

| Formations            |                       |            |           |         |                   |  |
|-----------------------|-----------------------|------------|-----------|---------|-------------------|--|
| Measured Depth (usft) | Vertical Depth (usft) | Name       | Lithology | Dip (°) | Dip Direction (°) |  |
| 839.86                | 838.00                | YATES      |           | 0.000   |                   |  |
| 1,640.24              | 1,634.00              | QUEEN      |           | 0.000   |                   |  |
| 2,381.30              | 2,371.00              | SAN ANDRES |           | 0.000   |                   |  |
| 3,803.34              | 3,769.00              | GLORIETA   |           | 0.000   |                   |  |
| 3,884.58              | 3,834.00              | PADDOCK    |           | 0.000   |                   |  |



# Longfellow Energy

Eddy Co., NM (Nad-83)

OZZY FED COM 18C

001H

Wellbore #1

Plan #2

## Anticollision Report

03 June, 2021





## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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<br>(usft)      | To<br>(usft) | Survey (Wellbore)     | Tool Name | Description            |  |
| 0.00                | 9,156.48     | 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                |                                 |                              |                                 |                                  |                   |         |
| 002H - Wellbore #1 - Plan #2    | 300.00                          | 299.80                       | 24.99                           | 23.26                            | 14.439            | CC      |
| 002H - Wellbore #1 - Plan #2    | 330.00                          | 329.65                       | 25.17                           | 23.23                            | 12.966            | ES      |
| 002H - Wellbore #1 - Plan #2    | 9,156.48                        | 9,634.17                     | 641.20                          | 440.87                           | 3.201             | SF      |
| 003H - Wellbore #1 - Plan #2    | 480.00                          | 475.80                       | 58.29                           | 55.31                            | 19.522            | CC, ES  |
| 003H - Wellbore #1 - Plan #2    | 9,156.48                        | 9,192.45                     | 777.81                          | 491.10                           | 2.713             | SF      |

| 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                            |              |                        |                         |                           |                                                 |         |                    |  |           |
| 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 |                    |  |           |
| 240.00                     | 240.00                | 239.80                | 240.00                | 0.65             | 0.65          | -179.954              | -24.99                              | -0.02        | 24.99                  | 23.69                   | 1.30                      | 19.215                                          |         |                    |  |           |
| 270.00                     | 270.00                | 269.80                | 270.00                | 0.76             | 0.76          | -179.954              | -24.99                              | -0.02        | 24.99                  | 23.47                   | 1.52                      | 16.488                                          |         |                    |  |           |
| 300.00                     | 300.00                | 299.80                | 300.00                | 0.87             | 0.86          | -179.954              | -24.99                              | -0.02        | 24.99                  | 23.26                   | 1.73                      | 14.439                                          | CC      |                    |  |           |
| 330.00                     | 330.00                | 329.65                | 329.85                | 0.97             | 0.97          | 127.487               | -25.08                              | 0.11         | 25.17                  | 23.23                   | 1.94                      | 12.966                                          | ES      |                    |  |           |
| 360.00                     | 360.00                | 359.50                | 359.70                | 1.08             | 1.07          | 127.448               | -25.33                              | 0.49         | 25.72                  | 23.57                   | 2.15                      | 11.950                                          |         |                    |  |           |
| 390.00                     | 389.99                | 389.34                | 389.52                | 1.19             | 1.18          | 127.384               | -25.77                              | 1.14         | 26.63                  | 24.27                   | 2.36                      | 11.269                                          |         |                    |  |           |
| 420.00                     | 419.96                | 419.15                | 419.32                | 1.29             | 1.28          | 127.299               | -26.37                              | 2.04         | 27.91                  | 25.33                   | 2.58                      | 10.838                                          |         |                    |  |           |
| 450.00                     | 449.93                | 448.94                | 449.07                | 1.40             | 1.38          | 127.198               | -27.15                              | 3.19         | 29.55                  | 26.76                   | 2.79                      | 10.602                                          |         |                    |  |           |
| 480.00                     | 479.88                | 478.69                | 478.78                | 1.51             | 1.49          | 127.087               | -28.10                              | 4.60         | 31.56                  | 28.56                   | 3.00                      | 10.521                                          |         |                    |  |           |
| 510.00                     | 509.81                | 508.41                | 508.42                | 1.62             | 1.59          | 126.969               | -29.22                              | 6.27         | 33.93                  | 30.71                   | 3.21                      | 10.559                                          |         |                    |  |           |
| 540.00                     | 539.72                | 538.08                | 538.00                | 1.73             | 1.70          | 126.849               | -30.51                              | 8.18         | 36.66                  | 33.23                   | 3.43                      | 10.687                                          |         |                    |  |           |
| 570.00                     | 569.60                | 567.86                | 567.68                | 1.84             | 1.81          | 126.827               | -31.93                              | 10.30        | 39.71                  | 36.06                   | 3.65                      | 10.883                                          |         |                    |  |           |
| 599.92                     | 599.37                | 602.39                | 597.31                | 1.95             | 1.93          | 127.122               | -33.35                              | 12.41        | 42.94                  | 39.05                   | 3.88                      | 11.054                                          |         |                    |  |           |
| 630.00                     | 629.29                | 627.50                | 627.10                | 2.07             | 2.03          | 127.578               | -34.78                              | 14.54        | 46.28                  | 42.20                   | 4.09                      | 11.318                                          |         |                    |  |           |
| 660.00                     | 659.12                | 657.31                | 656.80                | 2.18             | 2.14          | 127.970               | -36.21                              | 16.66        | 49.63                  | 45.31                   | 4.31                      | 11.510                                          |         |                    |  |           |
| 690.00                     | 688.96                | 687.12                | 686.50                | 2.30             | 2.25          | 128.314               | -37.64                              | 18.79        | 52.97                  | 48.43                   | 4.53                      | 11.683                                          |         |                    |  |           |
| 720.00                     | 718.79                | 716.93                | 716.20                | 2.41             | 2.36          | 128.616               | -39.06                              | 20.91        | 56.31                  | 51.55                   | 4.76                      | 11.838                                          |         |                    |  |           |
| 750.00                     | 748.63                | 746.74                | 745.90                | 2.53             | 2.48          | 128.885               | -40.49                              | 23.03        | 59.66                  | 54.68                   | 4.98                      | 11.978                                          |         |                    |  |           |
| 780.00                     | 778.47                | 776.56                | 775.60                | 2.65             | 2.59          | 129.125               | -41.92                              | 25.15        | 63.00                  | 57.80                   | 5.20                      | 12.105                                          |         |                    |  |           |
| 810.00                     | 808.30                | 806.37                | 805.31                | 2.77             | 2.70          | 129.341               | -43.34                              | 27.27        | 66.35                  | 60.92                   | 5.43                      | 12.221                                          |         |                    |  |           |
| 840.00                     | 838.14                | 836.18                | 835.01                | 2.88             | 2.82          | 129.536               | -44.77                              | 29.40        | 69.70                  | 64.04                   | 5.65                      | 12.325                                          |         |                    |  |           |
| 870.00                     | 867.97                | 865.99                | 864.71                | 3.00             | 2.93          | 129.713               | -46.20                              | 31.52        | 73.05                  | 67.17                   | 5.88                      | 12.422                                          |         |                    |  |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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  |           |
| 900.00                     | 897.81                | 904.20                | 894.41                | 3.12             | 3.08          | 129.875               | -47.63                              | 33.64        | 76.40                  | 70.26                   | 6.14                      | 12.446             |           |
| 930.00                     | 927.65                | 925.61                | 924.11                | 3.24             | 3.16          | 130.023               | -49.05                              | 35.76        | 79.75                  | 73.42                   | 6.33                      | 12.592             |           |
| 960.00                     | 957.48                | 955.43                | 953.81                | 3.36             | 3.28          | 130.159               | -50.48                              | 37.89        | 83.10                  | 76.54                   | 6.56                      | 12.666             |           |
| 990.00                     | 987.32                | 985.24                | 983.52                | 3.48             | 3.39          | 130.284               | -51.91                              | 40.01        | 86.45                  | 79.66                   | 6.79                      | 12.737             |           |
| 1,020.00                   | 1,017.15              | 1,015.05              | 1,013.22              | 3.60             | 3.51          | 130.401               | -53.33                              | 42.13        | 89.80                  | 82.79                   | 7.01                      | 12.802             |           |
| 1,050.00                   | 1,046.99              | 1,044.86              | 1,042.92              | 3.72             | 3.62          | 130.508               | -54.76                              | 44.25        | 93.15                  | 85.91                   | 7.24                      | 12.862             |           |
| 1,080.00                   | 1,076.82              | 1,074.67              | 1,072.62              | 3.84             | 3.74          | 130.609               | -56.19                              | 46.37        | 96.51                  | 89.04                   | 7.47                      | 12.918             |           |
| 1,110.00                   | 1,106.66              | 1,104.48              | 1,102.32              | 3.96             | 3.85          | 130.702               | -57.62                              | 48.50        | 99.86                  | 92.16                   | 7.70                      | 12.971             |           |
| 1,140.00                   | 1,136.50              | 1,134.30              | 1,132.03              | 4.08             | 3.97          | 130.790               | -59.04                              | 50.62        | 103.21                 | 95.28                   | 7.93                      | 13.021             |           |
| 1,170.00                   | 1,166.33              | 1,164.11              | 1,161.73              | 4.20             | 4.09          | 130.872               | -60.47                              | 52.74        | 106.56                 | 98.41                   | 8.16                      | 13.067             |           |
| 1,200.00                   | 1,196.17              | 1,206.08              | 1,191.43              | 4.32             | 4.25          | 130.949               | -61.90                              | 54.86        | 109.92                 | 101.49                  | 8.43                      | 13.039             |           |
| 1,230.00                   | 1,226.00              | 1,223.73              | 1,221.13              | 4.44             | 4.32          | 131.022               | -63.32                              | 56.99        | 113.27                 | 104.66                  | 8.61                      | 13.152             |           |
| 1,260.00                   | 1,255.84              | 1,253.54              | 1,250.83              | 4.56             | 4.43          | 131.090               | -64.75                              | 59.11        | 116.62                 | 107.78                  | 8.84                      | 13.191             |           |
| 1,290.00                   | 1,285.67              | 1,283.35              | 1,280.53              | 4.68             | 4.55          | 131.154               | -66.18                              | 61.23        | 119.98                 | 110.91                  | 9.07                      | 13.228             |           |
| 1,320.00                   | 1,315.51              | 1,313.17              | 1,310.24              | 4.80             | 4.67          | 131.215               | -67.61                              | 63.35        | 123.33                 | 114.03                  | 9.30                      | 13.263             |           |
| 1,350.00                   | 1,345.35              | 1,342.98              | 1,339.94              | 4.92             | 4.78          | 131.273               | -69.03                              | 65.47        | 126.69                 | 117.16                  | 9.53                      | 13.296             |           |
| 1,380.00                   | 1,375.18              | 1,372.79              | 1,369.64              | 5.04             | 4.90          | 131.328               | -70.46                              | 67.60        | 130.04                 | 120.28                  | 9.76                      | 13.327             |           |
| 1,410.00                   | 1,405.02              | 1,402.60              | 1,399.34              | 5.16             | 5.01          | 131.380               | -71.89                              | 69.72        | 133.39                 | 123.41                  | 9.99                      | 13.357             |           |
| 1,440.00                   | 1,434.85              | 1,432.41              | 1,429.04              | 5.28             | 5.13          | 131.429               | -73.31                              | 71.84        | 136.75                 | 126.53                  | 10.22                     | 13.385             |           |
| 1,470.00                   | 1,464.69              | 1,462.22              | 1,458.75              | 5.40             | 5.25          | 131.476               | -74.74                              | 73.96        | 140.10                 | 129.66                  | 10.45                     | 13.412             |           |
| 1,500.00                   | 1,494.52              | 1,507.96              | 1,488.45              | 5.52             | 5.43          | 131.521               | -76.17                              | 76.08        | 143.46                 | 132.72                  | 10.74                     | 13.362             |           |
| 1,530.00                   | 1,524.36              | 1,521.85              | 1,518.15              | 5.64             | 5.48          | 131.564               | -77.60                              | 78.21        | 146.81                 | 135.91                  | 10.90                     | 13.463             |           |
| 1,560.00                   | 1,554.20              | 1,551.66              | 1,547.85              | 5.76             | 5.60          | 131.605               | -79.02                              | 80.33        | 150.17                 | 139.03                  | 11.13                     | 13.486             |           |
| 1,590.00                   | 1,584.03              | 1,581.47              | 1,577.55              | 5.88             | 5.71          | 131.644               | -80.45                              | 82.45        | 153.52                 | 142.16                  | 11.36                     | 13.509             |           |
| 1,620.00                   | 1,613.87              | 1,611.28              | 1,607.25              | 6.00             | 5.83          | 131.682               | -81.88                              | 84.57        | 156.88                 | 145.28                  | 11.59                     | 13.531             |           |
| 1,650.00                   | 1,643.70              | 1,641.09              | 1,636.96              | 6.13             | 5.95          | 131.718               | -83.30                              | 86.70        | 160.23                 | 148.41                  | 11.82                     | 13.551             |           |
| 1,680.00                   | 1,673.54              | 1,670.91              | 1,666.66              | 6.25             | 6.06          | 131.752               | -84.73                              | 88.82        | 163.59                 | 151.53                  | 12.05                     | 13.571             |           |
| 1,710.00                   | 1,703.37              | 1,700.72              | 1,696.36              | 6.37             | 6.18          | 131.785               | -86.16                              | 90.94        | 166.94                 | 154.66                  | 12.28                     | 13.590             |           |
| 1,740.00                   | 1,733.21              | 1,730.53              | 1,726.06              | 6.49             | 6.30          | 131.817               | -87.59                              | 93.06        | 170.29                 | 157.78                  | 12.51                     | 13.609             |           |
| 1,770.00                   | 1,763.05              | 1,760.34              | 1,755.76              | 6.61             | 6.41          | 131.847               | -89.01                              | 95.18        | 173.65                 | 160.91                  | 12.74                     | 13.626             |           |
| 1,800.00                   | 1,792.88              | 1,809.85              | 1,785.46              | 6.73             | 6.61          | 131.877               | -90.44                              | 97.31        | 177.01                 | 163.96                  | 13.05                     | 13.564             |           |
| 1,830.00                   | 1,822.72              | 1,819.96              | 1,815.17              | 6.85             | 6.65          | 131.905               | -91.87                              | 99.43        | 180.36                 | 167.16                  | 13.20                     | 13.659             |           |
| 1,860.00                   | 1,852.55              | 1,849.78              | 1,844.87              | 6.97             | 6.76          | 131.932               | -93.29                              | 101.55       | 183.72                 | 170.28                  | 13.43                     | 13.675             |           |
| 1,890.00                   | 1,882.39              | 1,879.59              | 1,874.57              | 7.09             | 6.88          | 131.958               | -94.72                              | 103.67       | 187.07                 | 173.41                  | 13.66                     | 13.690             |           |
| 1,920.00                   | 1,912.22              | 1,909.40              | 1,904.27              | 7.22             | 7.00          | 131.984               | -96.15                              | 105.80       | 190.43                 | 176.53                  | 13.89                     | 13.705             |           |
| 1,950.00                   | 1,942.06              | 1,939.21              | 1,933.97              | 7.34             | 7.11          | 132.008               | -97.57                              | 107.92       | 193.78                 | 179.66                  | 14.12                     | 13.719             |           |
| 1,980.00                   | 1,971.90              | 1,969.02              | 1,963.68              | 7.46             | 7.23          | 132.032               | -99.00                              | 110.04       | 197.14                 | 182.78                  | 14.36                     | 13.733             |           |
| 2,010.00                   | 2,001.73              | 2,001.17              | 1,993.38              | 7.58             | 7.36          | 132.055               | -100.43                             | 112.16       | 200.49                 | 185.90                  | 14.59                     | 13.738             |           |
| 2,040.00                   | 2,031.57              | 2,028.65              | 2,023.08              | 7.70             | 7.47          | 132.077               | -101.86                             | 114.28       | 203.85                 | 189.03                  | 14.82                     | 13.759             |           |
| 2,070.00                   | 2,061.40              | 2,058.46              | 2,052.78              | 7.82             | 7.58          | 132.098               | -103.28                             | 116.41       | 207.20                 | 192.16                  | 15.05                     | 13.771             |           |
| 2,100.00                   | 2,091.24              | 2,088.27              | 2,082.48              | 7.94             | 7.70          | 132.119               | -104.71                             | 118.53       | 210.56                 | 195.28                  | 15.28                     | 13.783             |           |
| 2,130.00                   | 2,121.08              | 2,118.08              | 2,112.18              | 8.06             | 7.82          | 132.139               | -106.14                             | 120.65       | 213.91                 | 198.41                  | 15.51                     | 13.795             |           |
| 2,160.00                   | 2,150.91              | 2,147.89              | 2,141.89              | 8.18             | 7.93          | 132.158               | -107.56                             | 122.77       | 217.27                 | 201.53                  | 15.74                     | 13.806             |           |
| 2,190.00                   | 2,180.75              | 2,177.70              | 2,171.59              | 8.31             | 8.05          | 132.177               | -108.99                             | 124.90       | 220.62                 | 204.66                  | 15.97                     | 13.817             |           |
| 2,220.00                   | 2,210.58              | 2,207.52              | 2,201.29              | 8.43             | 8.17          | 132.195               | -110.42                             | 127.02       | 223.98                 | 207.78                  | 16.20                     | 13.828             |           |
| 2,250.00                   | 2,240.42              | 2,237.33              | 2,230.99              | 8.55             | 8.28          | 132.213               | -111.85                             | 129.14       | 227.34                 | 210.91                  | 16.43                     | 13.838             |           |
| 2,280.00                   | 2,270.25              | 2,267.14              | 2,260.69              | 8.67             | 8.40          | 132.230               | -113.27                             | 131.26       | 230.69                 | 214.03                  | 16.66                     | 13.848             |           |
| 2,310.00                   | 2,300.09              | 2,303.05              | 2,290.39              | 8.79             | 8.54          | 132.247               | -114.70                             | 133.38       | 234.05                 | 217.13                  | 16.91                     | 13.838             |           |
| 2,340.00                   | 2,329.93              | 2,326.76              | 2,320.10              | 8.91             | 8.63          | 132.263               | -116.13                             | 135.51       | 237.40                 | 220.28                  | 17.12                     | 13.867             |           |
| 2,370.00                   | 2,359.76              | 2,356.57              | 2,349.80              | 9.03             | 8.75          | 132.279               | -117.55                             | 137.63       | 240.76                 | 223.41                  | 17.35                     | 13.876             |           |
| 2,400.00                   | 2,389.60              | 2,386.39              | 2,379.50              | 9.16             | 8.87          | 132.294               | -118.98                             | 139.75       | 244.11                 | 226.53                  | 17.58                     | 13.885             |           |
| 2,430.00                   | 2,419.43              | 2,416.20              | 2,409.20              | 9.28             | 8.99          | 132.309               | -120.41                             | 141.87       | 247.47                 | 229.66                  | 17.81                     | 13.894             |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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  |           |
| 2,460.00                   | 2,449.27              | 2,446.01              | 2,438.90              | 9.40             | 9.10          | 132.324               | -121.84                             | 144.00       | 250.82                 | 232.78                  | 18.04                     | 13.902             |           |
| 2,490.00                   | 2,479.10              | 2,475.82              | 2,468.61              | 9.52             | 9.22          | 132.338               | -123.26                             | 146.12       | 254.18                 | 235.91                  | 18.27                     | 13.910             |           |
| 2,520.00                   | 2,508.94              | 2,505.63              | 2,498.31              | 9.64             | 9.34          | 132.352               | -124.69                             | 148.24       | 257.54                 | 239.03                  | 18.50                     | 13.918             |           |
| 2,550.00                   | 2,538.78              | 2,535.44              | 2,528.01              | 9.76             | 9.45          | 132.365               | -126.12                             | 150.36       | 260.89                 | 242.16                  | 18.73                     | 13.926             |           |
| 2,580.00                   | 2,568.61              | 2,565.26              | 2,557.71              | 9.88             | 9.57          | 132.378               | -127.54                             | 152.48       | 264.25                 | 245.28                  | 18.96                     | 13.934             |           |
| 2,610.00                   | 2,598.45              | 2,604.93              | 2,587.41              | 10.00            | 9.73          | 132.391               | -128.97                             | 154.61       | 267.60                 | 248.37                  | 19.23                     | 13.914             |           |
| 2,640.00                   | 2,628.28              | 2,624.88              | 2,617.11              | 10.13            | 9.81          | 132.403               | -130.40                             | 156.73       | 270.96                 | 251.53                  | 19.43                     | 13.948             |           |
| 2,670.00                   | 2,658.12              | 2,654.69              | 2,646.82              | 10.25            | 9.92          | 132.416               | -131.83                             | 158.85       | 274.31                 | 254.66                  | 19.66                     | 13.955             |           |
| 2,700.00                   | 2,687.95              | 2,684.50              | 2,676.52              | 10.37            | 10.04         | 132.427               | -133.25                             | 160.97       | 277.67                 | 257.78                  | 19.89                     | 13.962             |           |
| 2,730.00                   | 2,717.79              | 2,714.31              | 2,706.22              | 10.49            | 10.16         | 132.439               | -134.68                             | 163.10       | 281.03                 | 260.91                  | 20.12                     | 13.969             |           |
| 2,760.00                   | 2,747.63              | 2,744.13              | 2,735.92              | 10.61            | 10.27         | 132.450               | -136.11                             | 165.22       | 284.38                 | 264.03                  | 20.35                     | 13.975             |           |
| 2,790.00                   | 2,777.46              | 2,773.94              | 2,765.62              | 10.73            | 10.39         | 132.461               | -137.53                             | 167.34       | 287.74                 | 267.16                  | 20.58                     | 13.982             |           |
| 2,820.00                   | 2,807.30              | 2,803.75              | 2,795.32              | 10.86            | 10.51         | 132.472               | -138.96                             | 169.46       | 291.09                 | 270.28                  | 20.81                     | 13.988             |           |
| 2,850.00                   | 2,837.13              | 2,833.56              | 2,825.03              | 10.98            | 10.63         | 132.483               | -140.39                             | 171.58       | 294.45                 | 273.41                  | 21.04                     | 13.994             |           |
| 2,880.00                   | 2,866.97              | 2,863.37              | 2,854.73              | 11.10            | 10.74         | 132.493               | -141.82                             | 173.71       | 297.81                 | 276.53                  | 21.27                     | 14.000             |           |
| 2,910.00                   | 2,896.80              | 2,906.82              | 2,884.43              | 11.22            | 10.91         | 132.503               | -143.24                             | 175.83       | 301.16                 | 279.61                  | 21.55                     | 13.972             |           |
| 2,940.00                   | 2,926.64              | 2,923.00              | 2,914.13              | 11.34            | 10.98         | 132.513               | -144.67                             | 177.95       | 304.52                 | 282.78                  | 21.73                     | 14.012             |           |
| 2,970.00                   | 2,956.48              | 2,952.81              | 2,943.83              | 11.46            | 11.09         | 132.522               | -146.10                             | 180.07       | 307.87                 | 285.91                  | 21.96                     | 14.017             |           |
| 3,000.00                   | 2,986.31              | 2,982.62              | 2,973.54              | 11.58            | 11.21         | 132.532               | -147.52                             | 182.20       | 311.23                 | 289.03                  | 22.19                     | 14.023             |           |
| 3,030.00                   | 3,016.15              | 3,012.43              | 3,003.24              | 11.71            | 11.33         | 132.541               | -148.95                             | 184.32       | 314.58                 | 292.16                  | 22.43                     | 14.028             |           |
| 3,060.00                   | 3,045.98              | 3,042.24              | 3,032.94              | 11.83            | 11.45         | 132.550               | -150.38                             | 186.44       | 317.94                 | 295.28                  | 22.66                     | 14.033             |           |
| 3,090.00                   | 3,075.82              | 3,072.05              | 3,062.64              | 11.95            | 11.56         | 132.559               | -151.81                             | 188.56       | 321.30                 | 298.41                  | 22.89                     | 14.038             |           |
| 3,120.00                   | 3,105.65              | 3,101.87              | 3,092.34              | 12.07            | 11.68         | 132.568               | -153.23                             | 190.68       | 324.65                 | 301.53                  | 23.12                     | 14.043             |           |
| 3,150.00                   | 3,135.49              | 3,131.68              | 3,122.04              | 12.19            | 11.80         | 132.576               | -154.66                             | 192.81       | 328.01                 | 304.66                  | 23.35                     | 14.048             |           |
| 3,180.00                   | 3,165.33              | 3,161.49              | 3,151.75              | 12.31            | 11.91         | 132.584               | -156.09                             | 194.93       | 331.36                 | 307.79                  | 23.58                     | 14.053             |           |
| 3,210.00                   | 3,195.16              | 3,208.70              | 3,181.45              | 12.43            | 12.10         | 132.592               | -157.51                             | 197.05       | 334.72                 | 310.84                  | 23.88                     | 14.018             |           |
| 3,240.00                   | 3,225.00              | 3,221.11              | 3,211.15              | 12.56            | 12.15         | 132.600               | -158.94                             | 199.17       | 338.08                 | 314.04                  | 24.04                     | 14.062             |           |
| 3,270.00                   | 3,254.83              | 3,250.92              | 3,240.85              | 12.68            | 12.27         | 132.608               | -160.37                             | 201.30       | 341.43                 | 317.16                  | 24.27                     | 14.067             |           |
| 3,300.00                   | 3,284.67              | 3,280.74              | 3,270.55              | 12.80            | 12.38         | 132.616               | -161.80                             | 203.42       | 344.79                 | 320.29                  | 24.50                     | 14.071             |           |
| 3,330.00                   | 3,314.50              | 3,310.55              | 3,300.25              | 12.92            | 12.50         | 132.623               | -163.22                             | 205.54       | 348.14                 | 323.41                  | 24.73                     | 14.076             |           |
| 3,360.00                   | 3,344.34              | 3,340.36              | 3,329.96              | 13.04            | 12.62         | 132.631               | -164.65                             | 207.66       | 351.50                 | 326.54                  | 24.96                     | 14.080             |           |
| 3,390.00                   | 3,374.18              | 3,370.17              | 3,359.66              | 13.16            | 12.73         | 132.638               | -166.08                             | 209.78       | 354.86                 | 329.66                  | 25.20                     | 14.084             |           |
| 3,420.00                   | 3,404.01              | 3,400.02              | 3,389.36              | 13.29            | 12.85         | 132.645               | -167.50                             | 211.91       | 358.21                 | 332.79                  | 25.43                     | 14.088             |           |
| 3,450.00                   | 3,433.85              | 3,429.79              | 3,419.06              | 13.41            | 12.97         | 132.652               | -168.93                             | 214.03       | 361.57                 | 335.91                  | 25.66                     | 14.092             |           |
| 3,480.00                   | 3,463.68              | 3,459.61              | 3,448.76              | 13.53            | 13.09         | 132.659               | -170.36                             | 216.15       | 364.92                 | 339.04                  | 25.89                     | 14.096             |           |
| 3,510.00                   | 3,493.52              | 3,489.42              | 3,478.47              | 13.65            | 13.20         | 132.666               | -171.79                             | 218.27       | 368.28                 | 342.16                  | 26.12                     | 14.100             |           |
| 3,540.00                   | 3,523.33              | 3,519.23              | 3,508.16              | 13.77            | 13.32         | 124.495               | -173.21                             | 220.39       | 371.65                 | 345.30                  | 26.35                     | 14.103             |           |
| 3,570.00                   | 3,552.99              | 3,548.98              | 3,537.81              | 13.91            | 13.44         | 115.392               | -174.64                             | 222.51       | 375.09                 | 348.49                  | 26.59                     | 14.105             |           |
| 3,600.00                   | 3,582.40              | 3,578.60              | 3,567.31              | 14.05            | 13.55         | 110.409               | -176.05                             | 224.62       | 378.62                 | 351.78                  | 26.84                     | 14.109             |           |
| 3,630.00                   | 3,611.47              | 3,607.99              | 3,596.60              | 14.20            | 13.67         | 107.509               | -177.46                             | 226.71       | 382.27                 | 355.18                  | 27.09                     | 14.111             |           |
| 3,660.00                   | 3,640.14              | 3,637.09              | 3,625.60              | 14.36            | 13.78         | 105.819               | -178.85                             | 228.79       | 386.09                 | 358.74                  | 27.35                     | 14.118             |           |
| 3,690.00                   | 3,668.31              | 3,665.81              | 3,654.21              | 14.53            | 13.90         | 104.909               | -180.23                             | 230.83       | 390.14                 | 362.53                  | 27.61                     | 14.130             |           |
| 3,720.00                   | 3,695.92              | 3,705.92              | 3,682.37              | 14.71            | 14.05         | 104.535               | -181.58                             | 232.84       | 394.49                 | 366.56                  | 27.93                     | 14.126             |           |
| 3,750.00                   | 3,722.88              | 3,721.81              | 3,710.00              | 14.90            | 14.12         | 104.543               | -182.91                             | 234.82       | 399.22                 | 371.08                  | 28.15                     | 14.184             |           |
| 3,780.00                   | 3,749.12              | 3,748.93              | 3,737.02              | 15.11            | 14.22         | 104.826               | -184.21                             | 236.75       | 404.43                 | 376.01                  | 28.42                     | 14.229             |           |
| 3,810.00                   | 3,774.58              | 3,775.37              | 3,763.36              | 15.33            | 14.33         | 105.300               | -185.47                             | 238.63       | 410.21                 | 381.52                  | 28.69                     | 14.296             |           |
| 3,840.00                   | 3,799.18              | 3,801.04              | 3,788.94              | 15.56            | 14.43         | 105.899               | -186.70                             | 240.46       | 416.66                 | 387.69                  | 28.96                     | 14.385             |           |
| 3,870.00                   | 3,822.85              | 3,825.89              | 3,813.70              | 15.81            | 14.53         | 105.666               | -187.89                             | 242.23       | 423.87                 | 394.64                  | 29.24                     | 14.498             |           |
| 3,900.00                   | 3,845.53              | 3,849.85              | 3,837.57              | 16.06            | 14.62         | 107.251               | -189.04                             | 243.93       | 431.95                 | 402.45                  | 29.50                     | 14.644             |           |
| 3,930.00                   | 3,867.16              | 3,872.84              | 3,860.48              | 16.35            | 14.71         | 107.909               | -190.14                             | 245.57       | 440.96                 | 411.20                  | 29.76                     | 14.817             |           |
| 3,960.00                   | 3,887.68              | 3,905.19              | 3,882.37              | 16.65            | 14.84         | 108.500               | -191.19                             | 247.13       | 450.98                 | 420.93                  | 30.05                     | 15.006             |           |
| 3,990.00                   | 3,907.02              | 3,915.70              | 3,903.17              | 16.97            | 14.88         | 108.987               | -192.19                             | 248.62       | 462.07                 | 431.82                  | 30.26                     | 15.272             |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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  |           |
| 4,020.00                   | 3,925.15              | 3,935.44              | 3,922.84              | 17.32            | 14.96         | 109.337               | -193.14                             | 250.02       | 474.27                 | 443.78                  | 30.49                     | 15.555             |           |
| 4,050.00                   | 3,942.00              | 3,953.99              | 3,941.32              | 17.67            | 15.03         | 109.517               | -194.02                             | 251.34       | 487.62                 | 456.91                  | 30.71                     | 15.880             |           |
| 4,080.00                   | 3,957.54              | 3,971.29              | 3,958.56              | 18.06            | 15.10         | 109.680               | -194.85                             | 252.58       | 502.10                 | 471.19                  | 30.91                     | 16.241             |           |
| 4,110.00                   | 3,972.54              | 3,988.09              | 3,975.29              | 18.47            | 15.16         | 111.348               | -195.66                             | 253.77       | 517.50                 | 486.39                  | 31.11                     | 16.632             |           |
| 4,140.00                   | 3,987.54              | 4,023.07              | 4,010.09              | 18.89            | 15.31         | 114.633               | -197.30                             | 257.02       | 533.43                 | 501.99                  | 31.44                     | 16.967             |           |
| 4,170.00                   | 4,002.54              | 4,075.66              | 4,061.85              | 19.32            | 15.54         | 118.967               | -199.63                             | 265.84       | 549.01                 | 517.18                  | 31.82                     | 17.252             |           |
| 4,200.00                   | 4,017.06              | 4,140.29              | 4,124.04              | 19.76            | 15.87         | 122.162               | -202.21                             | 283.13       | 563.90                 | 531.72                  | 32.18                     | 17.523             |           |
| 4,230.00                   | 4,029.94              | 4,230.00              | 4,166.99              | 20.24            | 16.37         | 123.396               | -203.84                             | 300.14       | 578.07                 | 545.37                  | 32.69                     | 17.681             |           |
| 4,260.00                   | 4,041.10              | 4,260.00              | 4,252.38              | 20.73            | 16.58         | 127.279               | -206.69                             | 346.06       | 591.01                 | 558.52                  | 32.48                     | 18.195             |           |
| 4,290.00                   | 4,050.49              | 4,426.19              | 4,361.14              | 21.25            | 17.90         | 131.943               | -209.28                             | 437.38       | 602.22                 | 569.83                  | 32.40                     | 18.589             |           |
| 4,320.00                   | 4,058.07              | 4,563.90              | 4,441.50              | 21.78            | 19.40         | 134.724               | -209.81                             | 548.79       | 610.13                 | 577.94                  | 32.18                     | 18.959             |           |
| 4,350.00                   | 4,063.81              | 4,583.63              | 4,451.46              | 22.33            | 19.66         | 134.568               | -209.78                             | 565.83       | 617.17                 | 584.50                  | 32.67                     | 18.892             |           |
| 4,380.00                   | 4,067.69              | 4,611.33              | 4,465.30              | 22.90            | 20.02         | 134.547               | -209.72                             | 589.82       | 625.57                 | 592.50                  | 33.07                     | 18.918             |           |
| 4,410.00                   | 4,069.70              | 4,638.25              | 4,478.77              | 23.48            | 20.39         | 134.476               | -209.66                             | 613.14       | 635.34                 | 601.92                  | 33.42                     | 19.009             |           |
| 4,440.00                   | 4,070.00              | 4,917.69              | 4,550.20              | 24.07            | 25.04         | 138.496               | -209.00                             | 879.31       | 641.20                 | 607.03                  | 34.17                     | 18.767             |           |
| 4,470.00                   | 4,070.00              | 4,947.69              | 4,550.20              | 24.66            | 25.61         | 138.496               | -208.93                             | 909.31       | 641.20                 | 606.22                  | 34.98                     | 18.329             |           |
| 4,500.00                   | 4,070.00              | 4,977.69              | 4,550.20              | 25.27            | 26.19         | 138.496               | -208.86                             | 939.31       | 641.20                 | 605.40                  | 35.80                     | 17.912             |           |
| 4,530.00                   | 4,070.00              | 5,007.69              | 4,550.20              | 25.89            | 26.78         | 138.496               | -208.78                             | 969.31       | 641.20                 | 604.56                  | 36.64                     | 17.501             |           |
| 4,560.00                   | 4,070.00              | 5,037.69              | 4,550.20              | 26.52            | 27.40         | 138.496               | -208.71                             | 999.31       | 641.20                 | 603.70                  | 37.50                     | 17.099             |           |
| 4,590.00                   | 4,070.00              | 5,067.69              | 4,550.20              | 27.15            | 28.01         | 138.496               | -208.64                             | 1,029.31     | 641.20                 | 602.84                  | 38.36                     | 16.716             |           |
| 4,620.00                   | 4,070.00              | 5,102.31              | 4,550.20              | 27.80            | 28.72         | 138.496               | -208.56                             | 1,059.31     | 641.20                 | 601.90                  | 39.30                     | 16.316             |           |
| 4,650.00                   | 4,070.00              | 5,127.69              | 4,550.20              | 28.45            | 29.26         | 138.496               | -208.49                             | 1,089.31     | 641.20                 | 601.07                  | 40.13                     | 15.979             |           |
| 4,680.00                   | 4,070.00              | 5,157.69              | 4,550.20              | 29.10            | 29.90         | 138.496               | -208.41                             | 1,119.31     | 641.20                 | 600.17                  | 41.03                     | 15.628             |           |
| 4,710.00                   | 4,070.00              | 5,187.69              | 4,550.20              | 29.77            | 30.54         | 138.496               | -208.34                             | 1,149.31     | 641.20                 | 599.27                  | 41.93                     | 15.292             |           |
| 4,740.00                   | 4,070.00              | 5,217.69              | 4,550.20              | 30.44            | 31.20         | 138.496               | -208.27                             | 1,179.31     | 641.20                 | 598.34                  | 42.86                     | 14.962             |           |
| 4,770.00                   | 4,070.00              | 5,247.69              | 4,550.20              | 31.12            | 31.86         | 138.496               | -208.19                             | 1,209.31     | 641.20                 | 597.41                  | 43.79                     | 14.644             |           |
| 4,800.00                   | 4,070.00              | 5,277.69              | 4,550.20              | 31.79            | 32.52         | 138.496               | -208.12                             | 1,239.31     | 641.20                 | 596.48                  | 44.72                     | 14.339             |           |
| 4,830.00                   | 4,070.00              | 5,307.69              | 4,550.20              | 32.49            | 33.19         | 138.496               | -208.04                             | 1,269.30     | 641.20                 | 595.54                  | 45.66                     | 14.043             |           |
| 4,860.00                   | 4,070.00              | 5,337.69              | 4,550.20              | 33.18            | 33.87         | 138.496               | -207.97                             | 1,299.30     | 641.20                 | 594.58                  | 46.62                     | 13.755             |           |
| 4,890.00                   | 4,070.00              | 5,367.69              | 4,550.20              | 33.87            | 34.55         | 138.496               | -207.90                             | 1,329.30     | 641.20                 | 593.63                  | 47.57                     | 13.479             |           |
| 4,920.00                   | 4,070.00              | 5,402.31              | 4,550.20              | 34.57            | 35.34         | 138.496               | -207.82                             | 1,359.30     | 641.20                 | 592.59                  | 48.61                     | 13.191             |           |
| 4,950.00                   | 4,070.00              | 5,427.69              | 4,550.20              | 35.28            | 35.92         | 138.496               | -207.75                             | 1,389.30     | 641.20                 | 591.69                  | 49.51                     | 12.951             |           |
| 4,980.00                   | 4,070.00              | 5,457.69              | 4,550.20              | 35.98            | 36.62         | 138.496               | -207.67                             | 1,419.30     | 641.20                 | 590.71                  | 50.48                     | 12.701             |           |
| 5,010.00                   | 4,070.00              | 5,487.69              | 4,550.20              | 36.69            | 37.31         | 138.496               | -207.60                             | 1,449.30     | 641.20                 | 589.73                  | 51.46                     | 12.459             |           |
| 5,040.00                   | 4,070.00              | 5,517.69              | 4,550.20              | 37.41            | 38.02         | 138.496               | -207.53                             | 1,479.30     | 641.20                 | 588.75                  | 52.45                     | 12.225             |           |
| 5,070.00                   | 4,070.00              | 5,547.69              | 4,550.20              | 38.13            | 38.72         | 138.496               | -207.45                             | 1,509.30     | 641.20                 | 587.75                  | 53.44                     | 11.997             |           |
| 5,100.00                   | 4,070.00              | 5,577.69              | 4,550.20              | 38.84            | 39.43         | 138.496               | -207.38                             | 1,539.30     | 641.20                 | 586.76                  | 54.44                     | 11.779             |           |
| 5,130.00                   | 4,070.00              | 5,607.69              | 4,550.20              | 39.57            | 40.14         | 138.496               | -207.31                             | 1,569.30     | 641.20                 | 585.76                  | 55.44                     | 11.566             |           |
| 5,160.00                   | 4,070.00              | 5,637.69              | 4,550.20              | 40.29            | 40.86         | 138.496               | -207.23                             | 1,599.30     | 641.20                 | 584.75                  | 56.44                     | 11.360             |           |
| 5,190.00                   | 4,070.00              | 5,667.69              | 4,550.20              | 41.02            | 41.57         | 138.496               | -207.16                             | 1,629.30     | 641.20                 | 583.75                  | 57.45                     | 11.161             |           |
| 5,220.00                   | 4,070.00              | 5,697.69              | 4,550.20              | 41.75            | 42.29         | 138.496               | -207.08                             | 1,659.30     | 641.20                 | 582.74                  | 58.46                     | 10.968             |           |
| 5,250.00                   | 4,070.00              | 5,727.69              | 4,550.20              | 42.48            | 43.02         | 138.496               | -207.01                             | 1,689.30     | 641.20                 | 581.72                  | 59.48                     | 10.780             |           |
| 5,280.00                   | 4,070.00              | 5,757.69              | 4,550.20              | 43.22            | 43.74         | 138.496               | -206.94                             | 1,719.30     | 641.20                 | 580.70                  | 60.50                     | 10.599             |           |
| 5,310.00                   | 4,070.00              | 5,787.69              | 4,550.20              | 43.95            | 44.47         | 138.496               | -206.86                             | 1,749.30     | 641.20                 | 579.68                  | 61.52                     | 10.423             |           |
| 5,340.00                   | 4,070.00              | 5,817.69              | 4,550.20              | 44.69            | 45.20         | 138.496               | -206.79                             | 1,779.30     | 641.20                 | 578.65                  | 62.54                     | 10.252             |           |
| 5,370.00                   | 4,070.00              | 5,847.69              | 4,550.20              | 45.43            | 45.93         | 138.496               | -206.71                             | 1,809.30     | 641.20                 | 577.63                  | 63.57                     | 10.086             |           |
| 5,400.00                   | 4,070.00              | 5,877.69              | 4,550.20              | 46.17            | 46.66         | 138.496               | -206.64                             | 1,839.30     | 641.20                 | 576.60                  | 64.60                     | 9.926              |           |
| 5,430.00                   | 4,070.00              | 5,907.69              | 4,550.20              | 46.92            | 47.40         | 138.496               | -206.57                             | 1,869.30     | 641.20                 | 575.56                  | 65.63                     | 9.769              |           |
| 5,460.00                   | 4,070.00              | 5,937.69              | 4,550.20              | 47.66            | 48.13         | 138.496               | -206.49                             | 1,899.30     | 641.20                 | 574.53                  | 66.67                     | 9.617              |           |
| 5,490.00                   | 4,070.00              | 5,967.69              | 4,550.20              | 48.41            | 48.87         | 138.496               | -206.42                             | 1,929.30     | 641.20                 | 573.49                  | 67.71                     | 9.470              |           |
| 5,520.00                   | 4,070.00              | 6,002.31              | 4,550.20              | 49.16            | 49.73         | 138.496               | -206.34                             | 1,959.30     | 641.20                 | 572.37                  | 68.83                     | 9.316              |           |
| 5,550.00                   | 4,070.00              | 6,027.69              | 4,550.20              | 49.91            | 50.36         | 138.496               | -206.27                             | 1,989.30     | 641.20                 | 571.41                  | 69.79                     | 9.188              |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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         |               | Minimum               |                                     | Separation   |                        | 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  |           |
| 5,580.00                   | 4,070.00              | 6,057.69              | 4,550.20              | 50.66            | 51.10         | 138.496               | -206.20                             | 2,019.30     | 641.20                 | 570.36                  | 70.83                     | 9.052              |           |
| 5,610.00                   | 4,070.00              | 6,087.69              | 4,550.20              | 51.41            | 51.84         | 138.496               | -206.12                             | 2,049.30     | 641.20                 | 569.32                  | 71.88                     | 8.921              |           |
| 5,640.00                   | 4,070.00              | 6,117.69              | 4,550.20              | 52.16            | 52.59         | 138.496               | -206.05                             | 2,079.30     | 641.20                 | 568.27                  | 72.93                     | 8.792              |           |
| 5,670.00                   | 4,070.00              | 6,147.69              | 4,550.20              | 52.92            | 53.34         | 138.496               | -205.98                             | 2,109.30     | 641.20                 | 567.22                  | 73.98                     | 8.668              |           |
| 5,700.00                   | 4,070.00              | 6,177.69              | 4,550.20              | 53.67            | 54.09         | 138.496               | -205.90                             | 2,139.30     | 641.20                 | 566.17                  | 75.03                     | 8.546              |           |
| 5,730.00                   | 4,070.00              | 6,207.69              | 4,550.20              | 54.43            | 54.84         | 138.496               | -205.83                             | 2,169.30     | 641.20                 | 565.12                  | 76.08                     | 8.428              |           |
| 5,760.00                   | 4,070.00              | 6,237.69              | 4,550.20              | 55.19            | 55.59         | 138.496               | -205.75                             | 2,199.30     | 641.20                 | 564.06                  | 77.13                     | 8.313              |           |
| 5,790.00                   | 4,070.00              | 6,267.69              | 4,550.20              | 55.94            | 56.34         | 138.496               | -205.68                             | 2,229.30     | 641.20                 | 563.01                  | 78.19                     | 8.201              |           |
| 5,820.00                   | 4,070.00              | 6,302.31              | 4,550.20              | 56.70            | 57.21         | 138.496               | -205.61                             | 2,259.30     | 641.20                 | 561.87                  | 79.33                     | 8.083              |           |
| 5,850.00                   | 4,070.00              | 6,327.69              | 4,550.20              | 57.46            | 57.85         | 138.496               | -205.53                             | 2,289.30     | 641.20                 | 560.89                  | 80.31                     | 7.985              |           |
| 5,880.00                   | 4,070.00              | 6,357.69              | 4,550.20              | 58.22            | 58.60         | 138.496               | -205.46                             | 2,319.30     | 641.20                 | 559.83                  | 81.37                     | 7.880              |           |
| 5,910.00                   | 4,070.00              | 6,387.69              | 4,550.20              | 58.99            | 59.36         | 138.496               | -205.38                             | 2,349.30     | 641.20                 | 558.77                  | 82.43                     | 7.779              |           |
| 5,940.00                   | 4,070.00              | 6,417.69              | 4,550.20              | 59.75            | 60.12         | 138.496               | -205.31                             | 2,379.30     | 641.20                 | 557.71                  | 83.49                     | 7.680              |           |
| 5,970.00                   | 4,070.00              | 6,447.69              | 4,550.20              | 60.51            | 60.87         | 138.496               | -205.24                             | 2,409.30     | 641.20                 | 556.64                  | 84.55                     | 7.583              |           |
| 6,000.00                   | 4,070.00              | 6,477.69              | 4,550.20              | 61.28            | 61.63         | 138.496               | -205.16                             | 2,439.30     | 641.20                 | 555.58                  | 85.62                     | 7.489              |           |
| 6,030.00                   | 4,070.00              | 6,507.69              | 4,550.20              | 62.04            | 62.39         | 138.496               | -205.09                             | 2,469.30     | 641.20                 | 554.51                  | 86.68                     | 7.397              |           |
| 6,060.00                   | 4,070.00              | 6,537.69              | 4,550.20              | 62.81            | 63.15         | 138.496               | -205.01                             | 2,499.30     | 641.20                 | 553.45                  | 87.75                     | 7.307              |           |
| 6,090.00                   | 4,070.00              | 6,567.69              | 4,550.20              | 63.57            | 63.92         | 138.496               | -204.94                             | 2,529.30     | 641.20                 | 552.38                  | 88.82                     | 7.219              |           |
| 6,120.00                   | 4,070.00              | 6,602.31              | 4,550.20              | 64.34            | 64.79         | 138.496               | -204.87                             | 2,559.30     | 641.20                 | 551.23                  | 89.97                     | 7.127              |           |
| 6,150.00                   | 4,070.00              | 6,627.69              | 4,550.20              | 65.11            | 65.44         | 138.496               | -204.79                             | 2,589.30     | 641.20                 | 550.24                  | 90.96                     | 7.049              |           |
| 6,180.00                   | 4,070.00              | 6,657.69              | 4,550.20              | 65.87            | 66.20         | 138.496               | -204.72                             | 2,619.30     | 641.20                 | 549.17                  | 92.03                     | 6.967              |           |
| 6,210.00                   | 4,070.00              | 6,687.69              | 4,550.20              | 66.64            | 66.97         | 138.496               | -204.65                             | 2,649.30     | 641.20                 | 548.10                  | 93.10                     | 6.887              |           |
| 6,240.00                   | 4,070.00              | 6,717.69              | 4,550.20              | 67.41            | 67.73         | 138.496               | -204.57                             | 2,679.30     | 641.20                 | 547.02                  | 94.17                     | 6.809              |           |
| 6,270.00                   | 4,070.00              | 6,747.69              | 4,550.20              | 68.18            | 68.50         | 138.496               | -204.50                             | 2,709.30     | 641.20                 | 545.95                  | 95.25                     | 6.732              |           |
| 6,300.00                   | 4,070.00              | 6,777.69              | 4,550.20              | 68.95            | 69.26         | 138.496               | -204.42                             | 2,739.30     | 641.20                 | 544.88                  | 96.32                     | 6.657              |           |
| 6,330.00                   | 4,070.00              | 6,807.69              | 4,550.20              | 69.72            | 70.03         | 138.496               | -204.35                             | 2,769.30     | 641.20                 | 543.80                  | 97.39                     | 6.584              |           |
| 6,360.00                   | 4,070.00              | 6,837.69              | 4,550.20              | 70.49            | 70.80         | 138.496               | -204.28                             | 2,799.30     | 641.20                 | 542.73                  | 98.47                     | 6.512              |           |
| 6,390.00                   | 4,070.00              | 6,867.69              | 4,550.20              | 71.26            | 71.56         | 138.496               | -204.20                             | 2,829.30     | 641.20                 | 541.65                  | 99.55                     | 6.441              |           |
| 6,420.00                   | 4,070.00              | 6,902.31              | 4,550.20              | 72.03            | 72.45         | 138.496               | -204.13                             | 2,859.30     | 641.20                 | 540.49                  | 100.71                    | 6.367              |           |
| 6,450.00                   | 4,070.00              | 6,927.69              | 4,550.20              | 72.81            | 73.10         | 138.496               | -204.05                             | 2,889.30     | 641.20                 | 539.50                  | 101.70                    | 6.305              |           |
| 6,480.00                   | 4,070.00              | 6,957.69              | 4,550.20              | 73.58            | 73.87         | 138.496               | -203.98                             | 2,919.30     | 641.20                 | 538.42                  | 102.78                    | 6.239              |           |
| 6,510.00                   | 4,070.00              | 6,987.69              | 4,550.20              | 74.35            | 74.64         | 138.496               | -203.91                             | 2,949.30     | 641.20                 | 537.34                  | 103.86                    | 6.174              |           |
| 6,540.00                   | 4,070.00              | 7,017.69              | 4,550.20              | 75.12            | 75.41         | 138.496               | -203.83                             | 2,979.30     | 641.20                 | 536.26                  | 104.94                    | 6.110              |           |
| 6,570.00                   | 4,070.00              | 7,047.69              | 4,550.20              | 75.90            | 76.18         | 138.496               | -203.76                             | 3,009.30     | 641.20                 | 535.18                  | 106.02                    | 6.048              |           |
| 6,600.00                   | 4,070.00              | 7,077.69              | 4,550.20              | 76.67            | 76.95         | 138.496               | -203.69                             | 3,039.30     | 641.20                 | 534.10                  | 107.10                    | 5.987              |           |
| 6,630.00                   | 4,070.00              | 7,107.69              | 4,550.20              | 77.45            | 77.72         | 138.496               | -203.61                             | 3,069.30     | 641.20                 | 533.02                  | 108.18                    | 5.927              |           |
| 6,660.00                   | 4,070.00              | 7,137.69              | 4,550.20              | 78.22            | 78.49         | 138.496               | -203.54                             | 3,099.30     | 641.20                 | 531.93                  | 109.26                    | 5.868              |           |
| 6,690.00                   | 4,070.00              | 7,167.69              | 4,550.20              | 79.00            | 79.27         | 138.496               | -203.46                             | 3,129.30     | 641.20                 | 530.85                  | 110.35                    | 5.811              |           |
| 6,720.00                   | 4,070.00              | 7,202.31              | 4,550.20              | 79.77            | 80.16         | 138.496               | -203.39                             | 3,159.30     | 641.20                 | 529.68                  | 111.51                    | 5.750              |           |
| 6,750.00                   | 4,070.00              | 7,227.69              | 4,550.20              | 80.55            | 80.81         | 138.496               | -203.32                             | 3,189.30     | 641.20                 | 528.68                  | 112.51                    | 5.699              |           |
| 6,780.00                   | 4,070.00              | 7,257.69              | 4,550.20              | 81.32            | 81.58         | 138.496               | -203.24                             | 3,219.30     | 641.20                 | 527.60                  | 113.60                    | 5.644              |           |
| 6,810.00                   | 4,070.00              | 7,287.69              | 4,550.20              | 82.10            | 82.36         | 138.496               | -203.17                             | 3,249.30     | 641.20                 | 526.52                  | 114.68                    | 5.591              |           |
| 6,840.00                   | 4,070.00              | 7,317.69              | 4,550.20              | 82.88            | 83.13         | 138.496               | -203.09                             | 3,279.30     | 641.20                 | 525.43                  | 115.77                    | 5.539              |           |
| 6,870.00                   | 4,070.00              | 7,347.69              | 4,550.20              | 83.65            | 83.91         | 138.496               | -203.02                             | 3,309.30     | 641.20                 | 524.35                  | 116.85                    | 5.487              |           |
| 6,900.00                   | 4,070.00              | 7,377.69              | 4,550.20              | 84.43            | 84.68         | 138.496               | -202.95                             | 3,339.30     | 641.20                 | 523.26                  | 117.94                    | 5.437              |           |
| 6,930.00                   | 4,070.00              | 7,407.69              | 4,550.20              | 85.21            | 85.45         | 138.496               | -202.87                             | 3,369.30     | 641.20                 | 522.17                  | 119.02                    | 5.387              |           |
| 6,960.00                   | 4,070.00              | 7,437.69              | 4,550.20              | 85.99            | 86.23         | 138.496               | -202.80                             | 3,399.30     | 641.20                 | 521.09                  | 120.11                    | 5.338              |           |
| 6,990.00                   | 4,070.00              | 7,467.69              | 4,550.20              | 86.76            | 87.01         | 138.496               | -202.72                             | 3,429.30     | 641.20                 | 520.00                  | 121.20                    | 5.291              |           |
| 7,020.00                   | 4,070.00              | 7,502.31              | 4,550.20              | 87.54            | 87.90         | 138.496               | -202.65                             | 3,459.30     | 641.20                 | 518.83                  | 122.37                    | 5.240              |           |
| 7,050.00                   | 4,070.00              | 7,527.69              | 4,550.20              | 88.32            | 88.56         | 138.496               | -202.58                             | 3,489.30     | 641.20                 | 517.82                  | 123.37                    | 5.197              |           |
| 7,080.00                   | 4,070.00              | 7,557.69              | 4,550.20              | 89.10            | 89.33         | 138.496               | -202.50                             | 3,519.30     | 641.20                 | 516.74                  | 124.46                    | 5.152              |           |
| 7,110.00                   | 4,070.00              | 7,587.69              | 4,550.20              | 89.88            | 90.11         | 138.496               | -202.43                             | 3,549.30     | 641.20                 | 515.65                  | 125.55                    | 5.107              |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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   |
| 7,140.00                   | 4,070.00              | 7,617.69              | 4,550.20              | 90.66            | 90.89         | 138.496               | -202.36                             | 3,579.30     | 641.20                 | 514.56                  | 126.64                    | 5.063              |           |
| 7,170.00                   | 4,070.00              | 7,647.69              | 4,550.20              | 91.44            | 91.66         | 138.496               | -202.28                             | 3,609.30     | 641.20                 | 513.47                  | 127.73                    | 5.020              |           |
| 7,200.00                   | 4,070.00              | 7,677.69              | 4,550.20              | 92.21            | 92.44         | 138.496               | -202.21                             | 3,639.30     | 641.20                 | 512.38                  | 128.82                    | 4.978              |           |
| 7,230.00                   | 4,070.00              | 7,707.69              | 4,550.20              | 92.99            | 93.22         | 138.496               | -202.13                             | 3,669.30     | 641.20                 | 511.29                  | 129.91                    | 4.936              |           |
| 7,260.00                   | 4,070.00              | 7,737.69              | 4,550.20              | 93.77            | 94.00         | 138.496               | -202.06                             | 3,699.30     | 641.20                 | 510.20                  | 131.00                    | 4.895              |           |
| 7,290.00                   | 4,070.00              | 7,767.69              | 4,550.20              | 94.55            | 94.77         | 138.496               | -201.99                             | 3,729.30     | 641.20                 | 509.11                  | 132.09                    | 4.854              |           |
| 7,320.00                   | 4,070.00              | 7,802.31              | 4,550.20              | 95.34            | 95.67         | 138.496               | -201.91                             | 3,759.30     | 641.20                 | 507.93                  | 133.26                    | 4.812              |           |
| 7,350.00                   | 4,070.00              | 7,827.69              | 4,550.20              | 96.12            | 96.33         | 138.496               | -201.84                             | 3,789.30     | 641.20                 | 506.93                  | 134.27                    | 4.775              |           |
| 7,380.00                   | 4,070.00              | 7,857.69              | 4,550.20              | 96.90            | 97.11         | 138.496               | -201.76                             | 3,819.30     | 641.20                 | 505.84                  | 135.36                    | 4.737              |           |
| 7,410.00                   | 4,070.00              | 7,887.69              | 4,550.20              | 97.68            | 97.89         | 138.496               | -201.69                             | 3,849.30     | 641.20                 | 504.74                  | 136.45                    | 4.699              |           |
| 7,440.00                   | 4,070.00              | 7,917.69              | 4,550.20              | 98.46            | 98.67         | 138.496               | -201.62                             | 3,879.30     | 641.20                 | 503.65                  | 137.54                    | 4.662              |           |
| 7,470.00                   | 4,070.00              | 7,947.69              | 4,550.20              | 99.24            | 99.45         | 138.496               | -201.54                             | 3,909.30     | 641.20                 | 502.56                  | 138.64                    | 4.625              |           |
| 7,500.00                   | 4,070.00              | 7,977.69              | 4,550.20              | 100.02           | 100.23        | 138.496               | -201.47                             | 3,939.30     | 641.20                 | 501.47                  | 139.73                    | 4.589              |           |
| 7,530.00                   | 4,070.00              | 8,007.69              | 4,550.20              | 100.80           | 101.01        | 138.496               | -201.39                             | 3,969.30     | 641.20                 | 500.37                  | 140.82                    | 4.553              |           |
| 7,560.00                   | 4,070.00              | 8,037.69              | 4,550.20              | 101.58           | 101.79        | 138.496               | -201.32                             | 3,999.30     | 641.20                 | 499.28                  | 141.91                    | 4.518              |           |
| 7,590.00                   | 4,070.00              | 8,067.69              | 4,550.20              | 102.37           | 102.57        | 138.496               | -201.25                             | 4,029.30     | 641.20                 | 498.19                  | 143.01                    | 4.484              |           |
| 7,620.00                   | 4,070.00              | 8,102.31              | 4,550.20              | 103.15           | 103.47        | 138.496               | -201.17                             | 4,059.30     | 641.20                 | 497.01                  | 144.19                    | 4.447              |           |
| 7,650.00                   | 4,070.00              | 8,127.69              | 4,550.20              | 103.93           | 104.13        | 138.496               | -201.10                             | 4,089.30     | 641.20                 | 496.00                  | 145.20                    | 4.416              |           |
| 7,680.00                   | 4,070.00              | 8,157.69              | 4,550.20              | 104.71           | 104.91        | 138.496               | -201.03                             | 4,119.30     | 641.20                 | 494.91                  | 146.29                    | 4.383              |           |
| 7,710.00                   | 4,070.00              | 8,187.69              | 4,550.20              | 105.49           | 105.69        | 138.496               | -200.95                             | 4,149.30     | 641.20                 | 493.81                  | 147.38                    | 4.351              |           |
| 7,740.00                   | 4,070.00              | 8,217.69              | 4,550.20              | 106.28           | 106.47        | 138.496               | -200.88                             | 4,179.30     | 641.20                 | 492.72                  | 148.48                    | 4.318              |           |
| 7,770.00                   | 4,070.00              | 8,247.69              | 4,550.20              | 107.06           | 107.25        | 138.496               | -200.80                             | 4,209.30     | 641.20                 | 491.62                  | 149.57                    | 4.287              |           |
| 7,800.00                   | 4,070.00              | 8,277.69              | 4,550.20              | 107.84           | 108.03        | 138.496               | -200.73                             | 4,239.30     | 641.20                 | 490.53                  | 150.67                    | 4.256              |           |
| 7,830.00                   | 4,070.00              | 8,307.69              | 4,550.20              | 108.63           | 108.81        | 138.496               | -200.66                             | 4,269.30     | 641.20                 | 489.44                  | 151.76                    | 4.225              |           |
| 7,860.00                   | 4,070.00              | 8,337.69              | 4,550.20              | 109.41           | 109.59        | 138.496               | -200.58                             | 4,299.30     | 641.20                 | 488.34                  | 152.86                    | 4.195              |           |
| 7,890.00                   | 4,070.00              | 8,367.69              | 4,550.20              | 110.19           | 110.38        | 138.496               | -200.51                             | 4,329.30     | 641.20                 | 487.24                  | 153.95                    | 4.165              |           |
| 7,920.00                   | 4,070.00              | 8,402.31              | 4,550.20              | 110.97           | 111.28        | 138.496               | -200.43                             | 4,359.30     | 641.20                 | 486.07                  | 155.13                    | 4.133              |           |
| 7,950.00                   | 4,070.00              | 8,427.69              | 4,550.20              | 111.76           | 111.94        | 138.496               | -200.36                             | 4,389.30     | 641.20                 | 485.05                  | 156.14                    | 4.106              |           |
| 7,980.00                   | 4,070.00              | 8,457.69              | 4,550.20              | 112.54           | 112.72        | 138.496               | -200.29                             | 4,419.30     | 641.20                 | 483.96                  | 157.24                    | 4.078              |           |
| 8,010.00                   | 4,070.00              | 8,487.69              | 4,550.20              | 113.32           | 113.50        | 138.496               | -200.21                             | 4,449.30     | 641.20                 | 482.86                  | 158.33                    | 4.050              |           |
| 8,040.00                   | 4,070.00              | 8,517.69              | 4,550.20              | 114.11           | 114.29        | 138.496               | -200.14                             | 4,479.30     | 641.20                 | 481.77                  | 159.43                    | 4.022              |           |
| 8,070.00                   | 4,070.00              | 8,547.69              | 4,550.20              | 114.89           | 115.07        | 138.496               | -200.07                             | 4,509.30     | 641.20                 | 480.67                  | 160.53                    | 3.994              |           |
| 8,100.00                   | 4,070.00              | 8,577.69              | 4,550.20              | 115.68           | 115.85        | 138.496               | -199.99                             | 4,539.30     | 641.20                 | 479.57                  | 161.62                    | 3.967              |           |
| 8,130.00                   | 4,070.00              | 8,607.69              | 4,550.20              | 116.46           | 116.63        | 138.496               | -199.92                             | 4,569.29     | 641.20                 | 478.48                  | 162.72                    | 3.940              |           |
| 8,160.00                   | 4,070.00              | 8,637.69              | 4,550.20              | 117.24           | 117.42        | 138.496               | -199.84                             | 4,599.29     | 641.20                 | 477.38                  | 163.82                    | 3.914              |           |
| 8,190.00                   | 4,070.00              | 8,667.69              | 4,550.20              | 118.03           | 118.20        | 138.496               | -199.77                             | 4,629.29     | 641.20                 | 476.28                  | 164.91                    | 3.888              |           |
| 8,220.00                   | 4,070.00              | 8,702.31              | 4,550.20              | 118.81           | 119.10        | 138.496               | -199.70                             | 4,659.29     | 641.20                 | 475.10                  | 166.10                    | 3.860              |           |
| 8,250.00                   | 4,070.00              | 8,727.69              | 4,550.20              | 119.60           | 119.76        | 138.496               | -199.62                             | 4,689.29     | 641.20                 | 474.09                  | 167.11                    | 3.837              |           |
| 8,280.00                   | 4,070.00              | 8,757.69              | 4,550.20              | 120.38           | 120.55        | 138.496               | -199.55                             | 4,719.29     | 641.20                 | 472.99                  | 168.21                    | 3.812              |           |
| 8,310.00                   | 4,070.00              | 8,787.69              | 4,550.20              | 121.17           | 121.33        | 138.496               | -199.47                             | 4,749.29     | 641.20                 | 471.89                  | 169.30                    | 3.787              |           |
| 8,340.00                   | 4,070.00              | 8,817.69              | 4,550.20              | 121.95           | 122.11        | 138.496               | -199.40                             | 4,779.29     | 641.20                 | 470.79                  | 170.40                    | 3.763              |           |
| 8,370.00                   | 4,070.00              | 8,847.69              | 4,550.20              | 122.74           | 122.90        | 138.496               | -199.33                             | 4,809.29     | 641.20                 | 469.70                  | 171.50                    | 3.739              |           |
| 8,400.00                   | 4,070.00              | 8,877.69              | 4,550.20              | 123.52           | 123.68        | 138.496               | -199.25                             | 4,839.29     | 641.20                 | 468.60                  | 172.60                    | 3.715              |           |
| 8,430.00                   | 4,070.00              | 8,907.69              | 4,550.20              | 124.31           | 124.47        | 138.496               | -199.18                             | 4,869.29     | 641.20                 | 467.50                  | 173.70                    | 3.691              |           |
| 8,460.00                   | 4,070.00              | 8,937.69              | 4,550.20              | 125.09           | 125.25        | 138.496               | -199.10                             | 4,899.29     | 641.20                 | 466.40                  | 174.79                    | 3.668              |           |
| 8,490.00                   | 4,070.00              | 8,967.69              | 4,550.20              | 125.88           | 126.03        | 138.496               | -199.03                             | 4,929.29     | 641.20                 | 465.30                  | 175.89                    | 3.645              |           |
| 8,520.00                   | 4,070.00              | 9,002.31              | 4,550.20              | 126.66           | 126.94        | 138.496               | -198.96                             | 4,959.29     | 641.20                 | 464.12                  | 177.08                    | 3.621              |           |
| 8,550.00                   | 4,070.00              | 9,027.69              | 4,550.20              | 127.45           | 127.60        | 138.496               | -198.88                             | 4,989.29     | 641.20                 | 463.11                  | 178.09                    | 3.600              |           |
| 8,580.00                   | 4,070.00              | 9,057.69              | 4,550.20              | 128.23           | 128.39        | 138.496               | -198.81                             | 5,019.29     | 641.20                 | 462.01                  | 179.19                    | 3.578              |           |
| 8,610.00                   | 4,070.00              | 9,087.69              | 4,550.20              | 129.02           | 129.17        | 138.496               | -198.74                             | 5,049.29     | 641.20                 | 460.91                  | 180.29                    | 3.557              |           |
| 8,640.00                   | 4,070.00              | 9,117.69              | 4,550.20              | 129.80           | 129.95        | 138.496               | -198.66                             | 5,079.29     | 641.20                 | 459.81                  | 181.39                    | 3.535              |           |
| 8,670.00                   | 4,070.00              | 9,147.69              | 4,550.20              | 130.59           | 130.74        | 138.496               | -198.59                             | 5,109.29     | 641.20                 | 458.71                  | 182.49                    | 3.514              |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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>Offset Design</b> OZZY FED COM 18C - 002H - Wellbore #1 - Plan #2 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
|----------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 0-MWD+IGRF                                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 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         |           |
| 8,700.00                                                             | 4,070.00              | 9,177.69              | 4,550.20              | 131.37           | 131.52        | 138.496               | -198.51                             | 5,139.29     | 641.20                 | 457.61                  | 183.59                    | 3.493                     |           |
| 8,730.00                                                             | 4,070.00              | 9,207.69              | 4,550.20              | 132.16           | 132.31        | 138.496               | -198.44                             | 5,169.29     | 641.20                 | 456.51                  | 184.68                    | 3.472                     |           |
| 8,760.00                                                             | 4,070.00              | 9,237.69              | 4,550.20              | 132.95           | 133.09        | 138.496               | -198.37                             | 5,199.29     | 641.20                 | 455.41                  | 185.78                    | 3.451                     |           |
| 8,790.00                                                             | 4,070.00              | 9,267.69              | 4,550.20              | 133.73           | 133.88        | 138.496               | -198.29                             | 5,229.29     | 641.20                 | 454.31                  | 186.88                    | 3.431                     |           |
| 8,820.00                                                             | 4,070.00              | 9,302.31              | 4,550.20              | 134.52           | 134.78        | 138.496               | -198.22                             | 5,259.29     | 641.20                 | 453.13                  | 188.07                    | 3.409                     |           |
| 8,850.00                                                             | 4,070.00              | 9,327.69              | 4,550.20              | 135.30           | 135.45        | 138.496               | -198.14                             | 5,289.29     | 641.20                 | 452.11                  | 189.08                    | 3.391                     |           |
| 8,880.00                                                             | 4,070.00              | 9,357.69              | 4,550.20              | 136.09           | 136.23        | 138.496               | -198.07                             | 5,319.29     | 641.20                 | 451.01                  | 190.18                    | 3.371                     |           |
| 8,910.00                                                             | 4,070.00              | 9,387.69              | 4,550.20              | 136.88           | 137.02        | 138.496               | -198.00                             | 5,349.29     | 641.20                 | 449.91                  | 191.28                    | 3.352                     |           |
| 8,940.00                                                             | 4,070.00              | 9,417.69              | 4,550.20              | 137.66           | 137.80        | 138.496               | -197.92                             | 5,379.29     | 641.20                 | 448.81                  | 192.38                    | 3.333                     |           |
| 8,970.00                                                             | 4,070.00              | 9,447.69              | 4,550.20              | 138.45           | 138.59        | 138.496               | -197.85                             | 5,409.29     | 641.20                 | 447.71                  | 193.48                    | 3.314                     |           |
| 9,000.00                                                             | 4,070.00              | 9,477.69              | 4,550.20              | 139.23           | 139.37        | 138.496               | -197.77                             | 5,439.29     | 641.20                 | 446.61                  | 194.58                    | 3.295                     |           |
| 9,030.00                                                             | 4,070.00              | 9,507.69              | 4,550.20              | 140.02           | 140.16        | 138.496               | -197.70                             | 5,469.29     | 641.20                 | 445.51                  | 195.68                    | 3.277                     |           |
| 9,060.00                                                             | 4,070.00              | 9,537.69              | 4,550.20              | 140.81           | 140.94        | 138.496               | -197.63                             | 5,499.29     | 641.20                 | 444.41                  | 196.78                    | 3.258                     |           |
| 9,090.00                                                             | 4,070.00              | 9,567.69              | 4,550.20              | 141.59           | 141.73        | 138.496               | -197.55                             | 5,529.29     | 641.20                 | 443.31                  | 197.88                    | 3.240                     |           |
| 9,120.00                                                             | 4,070.00              | 9,602.31              | 4,550.20              | 142.38           | 142.64        | 138.496               | -197.48                             | 5,559.29     | 641.20                 | 442.13                  | 199.07                    | 3.221                     |           |
| 9,150.00                                                             | 4,070.00              | 9,627.69              | 4,550.20              | 143.17           | 143.30        | 138.496               | -197.41                             | 5,589.29     | 641.20                 | 441.11                  | 200.09                    | 3.205                     |           |
| 9,156.48                                                             | 4,070.00              | 9,634.17              | 4,550.20              | 143.34           | 143.47        | 138.496               | -197.39                             | 5,595.78     | 641.20                 | 440.87                  | 200.32                    | 3.201 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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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 |                    |           |
| 480.00                     | 479.88                | 475.80                | 476.79                | 1.51             | 1.47          | 129.191               | -54.74                              | 2.51         | 58.29                  | 55.31                   | 2.99                      | 19.522            | CC, ES             |           |
| 510.00                     | 509.81                | 505.12                | 506.04                | 1.62             | 1.57          | 129.678               | -56.45                              | 3.44         | 61.31                  | 58.11                   | 3.20                      | 19.178            |                    |           |
| 540.00                     | 539.72                | 534.36                | 535.19                | 1.73             | 1.68          | 130.180               | -58.43                              | 4.50         | 64.79                  | 61.38                   | 3.41                      | 18.990            |                    |           |
| 570.00                     | 569.60                | 563.51                | 564.24                | 1.84             | 1.78          | 130.684               | -60.66                              | 5.70         | 68.74                  | 65.11                   | 3.63                      | 18.956            |                    |           |
| 599.92                     | 599.37                | 592.49                | 593.08                | 1.95             | 1.89          | 131.175               | -63.13                              | 7.03         | 73.14                  | 69.30                   | 3.84                      | 19.050            |                    |           |
| 630.00                     | 629.29                | 621.53                | 621.96                | 2.07             | 2.00          | 131.640               | -65.86                              | 8.50         | 77.93                  | 73.87                   | 4.06                      | 19.212            |                    |           |
| 660.00                     | 659.12                | 650.42                | 650.65                | 2.18             | 2.11          | 131.937               | -68.84                              | 10.10        | 82.96                  | 78.69                   | 4.27                      | 19.416            |                    |           |
| 690.00                     | 688.96                | 679.24                | 679.23                | 2.30             | 2.22          | 132.095               | -72.06                              | 11.83        | 88.24                  | 83.75                   | 4.49                      | 19.660            |                    |           |
| 720.00                     | 718.79                | 707.96                | 707.68                | 2.41             | 2.34          | 132.136               | -75.53                              | 13.70        | 93.77                  | 89.06                   | 4.70                      | 19.935            |                    |           |
| 4,200.00                   | 4,017.06              | 4,235.14              | 4,019.17              | 19.76            | 21.55         | 90.163                | -564.57                             | 647.89       | 779.90                 | 740.76                  | 39.14                     | 19.924            |                    |           |
| 4,230.00                   | 4,029.94              | 4,265.28              | 4,031.98              | 20.24            | 21.96         | 90.154                | -564.49                             | 675.17       | 779.89                 | 739.79                  | 40.10                     | 19.448            |                    |           |
| 4,260.00                   | 4,041.10              | 4,295.42              | 4,043.05              | 20.73            | 22.40         | 90.144                | -564.41                             | 703.19       | 779.88                 | 738.77                  | 41.11                     | 18.973            |                    |           |
| 4,290.00                   | 4,050.49              | 4,325.54              | 4,052.32              | 21.25            | 22.86         | 90.134                | -564.33                             | 731.85       | 779.86                 | 737.71                  | 42.15                     | 18.502            |                    |           |
| 4,320.00                   | 4,058.07              | 4,355.66              | 4,059.77              | 21.78            | 23.34         | 90.123                | -564.24                             | 761.02       | 779.85                 | 736.62                  | 43.24                     | 18.037            |                    |           |
| 4,350.00                   | 4,063.81              | 4,385.76              | 4,065.36              | 22.33            | 23.84         | 90.111                | -564.16                             | 790.60       | 779.84                 | 735.48                  | 44.35                     | 17.582            |                    |           |
| 4,380.00                   | 4,067.69              | 4,415.85              | 4,069.07              | 22.90            | 24.35         | 90.099                | -564.07                             | 820.46       | 779.83                 | 734.33                  | 45.50                     | 17.139            |                    |           |
| 4,410.00                   | 4,069.70              | 4,445.94              | 4,070.90              | 23.48            | 24.88         | 90.087                | -563.99                             | 850.48       | 779.81                 | 733.15                  | 46.67                     | 16.710            |                    |           |
| 4,440.00                   | 4,070.00              | 4,475.97              | 4,071.10              | 24.07            | 25.43         | 90.081                | -563.90                             | 880.51       | 779.80                 | 731.94                  | 47.86                     | 16.295            |                    |           |
| 4,470.00                   | 4,070.00              | 4,505.97              | 4,071.10              | 24.66            | 25.98         | 90.081                | -563.81                             | 910.51       | 779.79                 | 730.72                  | 49.06                     | 15.893            |                    |           |
| 4,500.00                   | 4,070.00              | 4,535.97              | 4,071.10              | 25.27            | 26.56         | 90.081                | -563.73                             | 940.51       | 779.78                 | 729.48                  | 50.29                     | 15.505            |                    |           |
| 4,530.00                   | 4,070.00              | 4,565.97              | 4,071.10              | 25.89            | 27.13         | 90.081                | -563.64                             | 970.51       | 779.76                 | 728.21                  | 51.55                     | 15.127            |                    |           |
| 4,560.00                   | 4,070.00              | 4,604.03              | 4,071.10              | 26.52            | 27.88         | 90.081                | -563.55                             | 1,000.51     | 779.75                 | 726.78                  | 52.97                     | 14.719            |                    |           |
| 4,590.00                   | 4,070.00              | 4,625.97              | 4,071.10              | 27.15            | 28.32         | 90.081                | -563.47                             | 1,030.51     | 779.74                 | 725.65                  | 54.08                     | 14.417            |                    |           |
| 4,620.00                   | 4,070.00              | 4,655.97              | 4,071.10              | 27.80            | 28.94         | 90.081                | -563.38                             | 1,060.51     | 779.72                 | 724.34                  | 55.38                     | 14.078            |                    |           |
| 4,650.00                   | 4,070.00              | 4,685.97              | 4,071.10              | 28.45            | 29.55         | 90.081                | -563.29                             | 1,090.51     | 779.71                 | 723.02                  | 56.69                     | 13.753            |                    |           |
| 4,680.00                   | 4,070.00              | 4,715.97              | 4,071.10              | 29.10            | 30.18         | 90.081                | -563.21                             | 1,120.51     | 779.70                 | 721.68                  | 58.01                     | 13.440            |                    |           |
| 4,710.00                   | 4,070.00              | 4,745.97              | 4,071.10              | 29.77            | 30.82         | 90.081                | -563.12                             | 1,150.51     | 779.69                 | 720.33                  | 59.35                     | 13.137            |                    |           |
| 4,740.00                   | 4,070.00              | 4,775.97              | 4,071.10              | 30.44            | 31.46         | 90.081                | -563.03                             | 1,180.51     | 779.67                 | 718.97                  | 60.70                     | 12.844            |                    |           |
| 4,770.00                   | 4,070.00              | 4,805.97              | 4,071.10              | 31.12            | 32.11         | 90.081                | -562.95                             | 1,210.51     | 779.66                 | 717.60                  | 62.06                     | 12.563            |                    |           |
| 4,800.00                   | 4,070.00              | 4,835.97              | 4,071.10              | 31.79            | 32.77         | 90.081                | -562.86                             | 1,240.51     | 779.65                 | 716.22                  | 63.43                     | 12.292            |                    |           |
| 4,830.00                   | 4,070.00              | 4,865.97              | 4,071.10              | 32.49            | 33.43         | 90.081                | -562.77                             | 1,270.51     | 779.64                 | 714.82                  | 64.81                     | 12.029            |                    |           |
| 4,860.00                   | 4,070.00              | 4,904.03              | 4,071.10              | 33.18            | 34.28         | 90.081                | -562.69                             | 1,300.51     | 779.62                 | 713.24                  | 66.39                     | 11.744            |                    |           |
| 4,890.00                   | 4,070.00              | 4,925.97              | 4,071.10              | 33.87            | 34.78         | 90.081                | -562.60                             | 1,330.51     | 779.61                 | 712.02                  | 67.60                     | 11.534            |                    |           |
| 4,920.00                   | 4,070.00              | 4,955.97              | 4,071.10              | 34.57            | 35.46         | 90.081                | -562.52                             | 1,360.51     | 779.60                 | 710.59                  | 69.00                     | 11.298            |                    |           |
| 4,950.00                   | 4,070.00              | 4,985.97              | 4,071.10              | 35.28            | 36.14         | 90.081                | -562.43                             | 1,390.51     | 779.59                 | 709.17                  | 70.42                     | 11.071            |                    |           |
| 4,980.00                   | 4,070.00              | 5,015.97              | 4,071.10              | 35.98            | 36.83         | 90.081                | -562.34                             | 1,420.51     | 779.57                 | 707.74                  | 71.83                     | 10.852            |                    |           |
| 5,010.00                   | 4,070.00              | 5,045.97              | 4,071.10              | 36.69            | 37.52         | 90.081                | -562.26                             | 1,450.51     | 779.56                 | 706.30                  | 73.26                     | 10.641            |                    |           |
| 5,040.00                   | 4,070.00              | 5,075.97              | 4,071.10              | 37.41            | 38.22         | 90.081                | -562.17                             | 1,480.51     | 779.55                 | 704.85                  | 74.70                     | 10.436            |                    |           |
| 5,070.00                   | 4,070.00              | 5,105.97              | 4,071.10              | 38.13            | 38.92         | 90.081                | -562.08                             | 1,510.51     | 779.53                 | 703.40                  | 76.13                     | 10.239            |                    |           |
| 5,100.00                   | 4,070.00              | 5,135.97              | 4,071.10              | 38.84            | 39.63         | 90.081                | -562.00                             | 1,540.51     | 779.52                 | 701.95                  | 77.58                     | 10.048            |                    |           |
| 5,130.00                   | 4,070.00              | 5,165.97              | 4,071.10              | 39.57            | 40.33         | 90.081                | -561.91                             | 1,570.51     | 779.51                 | 700.48                  | 79.03                     | 9.863             |                    |           |
| 5,160.00                   | 4,070.00              | 5,204.03              | 4,071.10              | 40.29            | 41.23         | 90.081                | -561.82                             | 1,600.51     | 779.50                 | 698.82                  | 80.68                     | 9.662             |                    |           |
| 5,190.00                   | 4,070.00              | 5,225.97              | 4,071.10              | 41.02            | 41.76         | 90.081                | -561.74                             | 1,630.51     | 779.48                 | 697.54                  | 81.94                     | 9.513             |                    |           |
| 5,220.00                   | 4,070.00              | 5,255.97              | 4,071.10              | 41.75            | 42.48         | 90.081                | -561.65                             | 1,660.51     | 779.47                 | 696.06                  | 83.41                     | 9.345             |                    |           |
| 5,250.00                   | 4,070.00              | 5,285.97              | 4,071.10              | 42.48            | 43.19         | 90.081                | -561.56                             | 1,690.51     | 779.46                 | 694.58                  | 84.88                     | 9.183             |                    |           |
| 5,280.00                   | 4,070.00              | 5,315.97              | 4,071.10              | 43.22            | 43.92         | 90.081                | -561.48                             | 1,720.50     | 779.45                 | 693.10                  | 86.35                     | 9.027             |                    |           |
| 5,310.00                   | 4,070.00              | 5,345.97              | 4,071.10              | 43.95            | 44.64         | 90.081                | -561.39                             | 1,750.50     | 779.43                 | 691.61                  | 87.82                     | 8.875             |                    |           |
| 5,340.00                   | 4,070.00              | 5,375.97              | 4,071.10              | 44.69            | 45.37         | 90.081                | -561.30                             | 1,780.50     | 779.42                 | 690.12                  | 89.31                     | 8.728             |                    |           |
| 5,370.00                   | 4,070.00              | 5,405.97              | 4,071.10              | 45.43            | 46.10         | 90.081                | -561.22                             | 1,810.50     | 779.41                 | 688.62                  | 90.79                     | 8.585             |                    |           |
| 5,400.00                   | 4,070.00              | 5,435.97              | 4,071.10              | 46.17            | 46.83         | 90.081                | -561.13                             | 1,840.50     | 779.40                 | 687.12                  | 92.27                     | 8.446             |                    |           |
| 5,430.00                   | 4,070.00              | 5,465.97              | 4,071.10              | 46.92            | 47.56         | 90.081                | -561.04                             | 1,870.50     | 779.38                 | 685.62                  | 93.77                     | 8.312             |                    |           |
| 5,460.00                   | 4,070.00              | 5,504.03              | 4,071.10              | 47.66            | 48.49         | 90.081                | -560.96                             | 1,900.50     | 779.37                 | 683.91                  | 95.46                     | 8.164             |                    |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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 |
| 5,490.00                   | 4,070.00              | 5,525.97              | 4,071.10              | 48.41            | 49.03         | 90.081                | -560.87                             | 1,930.50     | 779.36                 | 682.60                  |         | 96.75                     | 8.055             |
| 5,520.00                   | 4,070.00              | 5,555.97              | 4,071.10              | 49.16            | 49.77         | 90.081                | -560.79                             | 1,960.50     | 779.35                 | 681.09                  |         | 98.25                     | 7.932             |
| 5,550.00                   | 4,070.00              | 5,585.97              | 4,071.10              | 49.91            | 50.51         | 90.081                | -560.70                             | 1,990.50     | 779.33                 | 679.58                  |         | 99.75                     | 7.813             |
| 5,580.00                   | 4,070.00              | 5,615.97              | 4,071.10              | 50.66            | 51.25         | 90.081                | -560.61                             | 2,020.50     | 779.32                 | 678.06                  |         | 101.26                    | 7.696             |
| 5,610.00                   | 4,070.00              | 5,645.97              | 4,071.10              | 51.41            | 52.00         | 90.081                | -560.53                             | 2,050.50     | 779.31                 | 676.54                  |         | 102.76                    | 7.583             |
| 5,640.00                   | 4,070.00              | 5,675.97              | 4,071.10              | 52.16            | 52.74         | 90.081                | -560.44                             | 2,080.50     | 779.29                 | 675.02                  |         | 104.27                    | 7.474             |
| 5,670.00                   | 4,070.00              | 5,705.97              | 4,071.10              | 52.92            | 53.49         | 90.081                | -560.35                             | 2,110.50     | 779.28                 | 673.50                  |         | 105.78                    | 7.367             |
| 5,700.00                   | 4,070.00              | 5,735.97              | 4,071.10              | 53.67            | 54.24         | 90.081                | -560.27                             | 2,140.50     | 779.27                 | 671.97                  |         | 107.29                    | 7.263             |
| 5,730.00                   | 4,070.00              | 5,765.97              | 4,071.10              | 54.43            | 54.98         | 90.081                | -560.18                             | 2,170.50     | 779.26                 | 670.45                  |         | 108.81                    | 7.162             |
| 5,760.00                   | 4,070.00              | 5,804.03              | 4,071.10              | 55.19            | 55.94         | 90.081                | -560.09                             | 2,200.50     | 779.24                 | 668.71                  |         | 110.53                    | 7.050             |
| 5,790.00                   | 4,070.00              | 5,825.97              | 4,071.10              | 55.94            | 56.49         | 90.081                | -560.01                             | 2,230.50     | 779.23                 | 667.39                  |         | 111.84                    | 6.967             |
| 5,820.00                   | 4,070.00              | 5,855.97              | 4,071.10              | 56.70            | 57.24         | 90.081                | -559.92                             | 2,260.50     | 779.22                 | 665.85                  |         | 113.37                    | 6.873             |
| 5,850.00                   | 4,070.00              | 5,885.97              | 4,071.10              | 57.46            | 57.99         | 90.081                | -559.83                             | 2,290.50     | 779.21                 | 664.32                  |         | 114.89                    | 6.782             |
| 5,880.00                   | 4,070.00              | 5,915.97              | 4,071.10              | 58.22            | 58.75         | 90.081                | -559.75                             | 2,320.50     | 779.19                 | 662.78                  |         | 116.41                    | 6.693             |
| 5,910.00                   | 4,070.00              | 5,945.97              | 4,071.10              | 58.99            | 59.50         | 90.081                | -559.66                             | 2,350.50     | 779.18                 | 661.24                  |         | 117.94                    | 6.607             |
| 5,940.00                   | 4,070.00              | 5,975.97              | 4,071.10              | 59.75            | 60.26         | 90.081                | -559.57                             | 2,380.50     | 779.17                 | 659.71                  |         | 119.46                    | 6.522             |
| 5,970.00                   | 4,070.00              | 6,005.97              | 4,071.10              | 60.51            | 61.01         | 90.081                | -559.49                             | 2,410.50     | 779.16                 | 658.17                  |         | 120.99                    | 6.440             |
| 6,000.00                   | 4,070.00              | 6,035.97              | 4,071.10              | 61.28            | 61.77         | 90.081                | -559.40                             | 2,440.50     | 779.14                 | 656.62                  |         | 122.52                    | 6.359             |
| 6,030.00                   | 4,070.00              | 6,065.97              | 4,071.10              | 62.04            | 62.53         | 90.081                | -559.31                             | 2,470.50     | 779.13                 | 655.08                  |         | 124.05                    | 6.281             |
| 6,060.00                   | 4,070.00              | 6,104.03              | 4,071.10              | 62.81            | 63.50         | 90.081                | -559.23                             | 2,500.50     | 779.12                 | 653.33                  |         | 125.79                    | 6.194             |
| 6,090.00                   | 4,070.00              | 6,125.97              | 4,071.10              | 63.57            | 64.05         | 90.081                | -559.14                             | 2,530.50     | 779.10                 | 651.99                  |         | 127.12                    | 6.129             |
| 6,120.00                   | 4,070.00              | 6,155.97              | 4,071.10              | 64.34            | 64.81         | 90.081                | -559.05                             | 2,560.50     | 779.09                 | 650.44                  |         | 128.65                    | 6.056             |
| 6,150.00                   | 4,070.00              | 6,185.97              | 4,071.10              | 65.11            | 65.58         | 90.081                | -558.97                             | 2,590.50     | 779.08                 | 648.89                  |         | 130.19                    | 5.984             |
| 6,180.00                   | 4,070.00              | 6,215.97              | 4,071.10              | 65.87            | 66.34         | 90.081                | -558.88                             | 2,620.50     | 779.07                 | 647.34                  |         | 131.72                    | 5.914             |
| 6,210.00                   | 4,070.00              | 6,245.97              | 4,071.10              | 66.64            | 67.10         | 90.081                | -558.80                             | 2,650.50     | 779.05                 | 645.79                  |         | 133.26                    | 5.846             |
| 6,240.00                   | 4,070.00              | 6,275.97              | 4,071.10              | 67.41            | 67.87         | 90.081                | -558.71                             | 2,680.50     | 779.04                 | 644.24                  |         | 134.80                    | 5.779             |
| 6,270.00                   | 4,070.00              | 6,305.97              | 4,071.10              | 68.18            | 68.63         | 90.081                | -558.62                             | 2,710.50     | 779.03                 | 642.69                  |         | 136.34                    | 5.714             |
| 6,300.00                   | 4,070.00              | 6,335.97              | 4,071.10              | 68.95            | 69.40         | 90.081                | -558.54                             | 2,740.50     | 779.02                 | 641.14                  |         | 137.88                    | 5.650             |
| 6,330.00                   | 4,070.00              | 6,365.97              | 4,071.10              | 69.72            | 70.16         | 90.081                | -558.45                             | 2,770.50     | 779.00                 | 639.58                  |         | 139.42                    | 5.587             |
| 6,360.00                   | 4,070.00              | 6,404.03              | 4,071.10              | 70.49            | 71.13         | 90.081                | -558.36                             | 2,800.50     | 778.99                 | 637.82                  |         | 141.17                    | 5.518             |
| 6,390.00                   | 4,070.00              | 6,425.97              | 4,071.10              | 71.26            | 71.70         | 90.081                | -558.28                             | 2,830.50     | 778.98                 | 636.47                  |         | 142.51                    | 5.466             |
| 6,420.00                   | 4,070.00              | 6,455.97              | 4,071.10              | 72.03            | 72.46         | 90.081                | -558.19                             | 2,860.50     | 778.97                 | 634.91                  |         | 144.05                    | 5.407             |
| 6,450.00                   | 4,070.00              | 6,485.97              | 4,071.10              | 72.81            | 73.23         | 90.081                | -558.10                             | 2,890.50     | 778.95                 | 633.35                  |         | 145.60                    | 5.350             |
| 6,480.00                   | 4,070.00              | 6,515.97              | 4,071.10              | 73.58            | 74.00         | 90.081                | -558.02                             | 2,920.50     | 778.94                 | 631.80                  |         | 147.15                    | 5.294             |
| 6,510.00                   | 4,070.00              | 6,545.97              | 4,071.10              | 74.35            | 74.77         | 90.081                | -557.93                             | 2,950.50     | 778.93                 | 630.24                  |         | 148.69                    | 5.239             |
| 6,540.00                   | 4,070.00              | 6,575.97              | 4,071.10              | 75.12            | 75.54         | 90.081                | -557.84                             | 2,980.50     | 778.92                 | 628.68                  |         | 150.24                    | 5.184             |
| 6,570.00                   | 4,070.00              | 6,605.97              | 4,071.10              | 75.90            | 76.31         | 90.081                | -557.76                             | 3,010.50     | 778.90                 | 627.11                  |         | 151.79                    | 5.132             |
| 6,600.00                   | 4,070.00              | 6,635.97              | 4,071.10              | 76.67            | 77.08         | 90.081                | -557.67                             | 3,040.50     | 778.89                 | 625.55                  |         | 153.34                    | 5.080             |
| 6,630.00                   | 4,070.00              | 6,665.97              | 4,071.10              | 77.45            | 77.85         | 90.081                | -557.58                             | 3,070.50     | 778.88                 | 623.99                  |         | 154.89                    | 5.029             |
| 6,660.00                   | 4,070.00              | 6,704.03              | 4,071.10              | 78.22            | 78.83         | 90.081                | -557.50                             | 3,100.50     | 778.86                 | 622.22                  |         | 156.65                    | 4.972             |
| 6,690.00                   | 4,070.00              | 6,725.97              | 4,071.10              | 79.00            | 79.39         | 90.081                | -557.41                             | 3,130.50     | 778.85                 | 620.86                  |         | 157.99                    | 4.930             |
| 6,720.00                   | 4,070.00              | 6,755.97              | 4,071.10              | 79.77            | 80.16         | 90.081                | -557.32                             | 3,160.50     | 778.84                 | 619.30                  |         | 159.54                    | 4.882             |
| 6,750.00                   | 4,070.00              | 6,785.97              | 4,071.10              | 80.55            | 80.94         | 90.081                | -557.24                             | 3,190.50     | 778.83                 | 617.73                  |         | 161.09                    | 4.835             |
| 6,780.00                   | 4,070.00              | 6,815.97              | 4,071.10              | 81.32            | 81.71         | 90.081                | -557.15                             | 3,220.50     | 778.81                 | 616.17                  |         | 162.65                    | 4.788             |
| 6,810.00                   | 4,070.00              | 6,845.97              | 4,071.10              | 82.10            | 82.48         | 90.081                | -557.06                             | 3,250.50     | 778.80                 | 614.60                  |         | 164.20                    | 4.743             |
| 6,840.00                   | 4,070.00              | 6,875.97              | 4,071.10              | 82.88            | 83.26         | 90.081                | -556.98                             | 3,280.50     | 778.79                 | 613.04                  |         | 165.75                    | 4.698             |
| 6,870.00                   | 4,070.00              | 6,905.97              | 4,071.10              | 83.65            | 84.03         | 90.081                | -556.89                             | 3,310.50     | 778.78                 | 611.47                  |         | 167.31                    | 4.655             |
| 6,900.00                   | 4,070.00              | 6,935.97              | 4,071.10              | 84.43            | 84.80         | 90.081                | -556.81                             | 3,340.50     | 778.76                 | 609.90                  |         | 168.86                    | 4.612             |
| 6,930.00                   | 4,070.00              | 6,965.97              | 4,071.10              | 85.21            | 85.58         | 90.081                | -556.72                             | 3,370.50     | 778.75                 | 608.33                  |         | 170.42                    | 4.570             |
| 6,960.00                   | 4,070.00              | 7,004.03              | 4,071.10              | 85.99            | 86.56         | 90.081                | -556.63                             | 3,400.50     | 778.74                 | 606.55                  |         | 172.18                    | 4.523             |
| 6,990.00                   | 4,070.00              | 7,025.97              | 4,071.10              | 86.76            | 87.13         | 90.081                | -556.55                             | 3,430.50     | 778.73                 | 605.19                  |         | 173.53                    | 4.488             |
| 7,020.00                   | 4,070.00              | 7,055.97              | 4,071.10              | 87.54            | 87.90         | 90.081                | -556.46                             | 3,460.50     | 778.71                 | 603.62                  |         | 175.09                    | 4.448             |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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  |           |
| 7,050.00                   | 4,070.00              | 7,085.97              | 4,071.10              | 88.32            | 88.68         | 90.081                | -556.37                             | 3,490.50     | 778.70                 | 602.05                  | 176.65                    | 4.408              |           |
| 7,080.00                   | 4,070.00              | 7,115.97              | 4,071.10              | 89.10            | 89.46         | 90.081                | -556.29                             | 3,520.50     | 778.69                 | 600.48                  | 178.20                    | 4.370              |           |
| 7,110.00                   | 4,070.00              | 7,145.97              | 4,071.10              | 89.88            | 90.23         | 90.081                | -556.20                             | 3,550.50     | 778.67                 | 598.91                  | 179.76                    | 4.332              |           |
| 7,140.00                   | 4,070.00              | 7,175.97              | 4,071.10              | 90.66            | 91.01         | 90.081                | -556.11                             | 3,580.50     | 778.66                 | 597.34                  | 181.32                    | 4.294              |           |
| 7,170.00                   | 4,070.00              | 7,205.97              | 4,071.10              | 91.44            | 91.79         | 90.081                | -556.03                             | 3,610.50     | 778.65                 | 595.77                  | 182.88                    | 4.258              |           |
| 7,200.00                   | 4,070.00              | 7,235.97              | 4,071.10              | 92.21            | 92.56         | 90.081                | -555.94                             | 3,640.50     | 778.64                 | 594.20                  | 184.44                    | 4.222              |           |
| 7,230.00                   | 4,070.00              | 7,265.97              | 4,071.10              | 92.99            | 93.34         | 90.081                | -555.85                             | 3,670.50     | 778.62                 | 592.62                  | 186.00                    | 4.186              |           |
| 7,260.00                   | 4,070.00              | 7,304.03              | 4,071.10              | 93.77            | 94.33         | 90.081                | -555.77                             | 3,700.50     | 778.61                 | 590.84                  | 187.77                    | 4.147              |           |
| 7,290.00                   | 4,070.00              | 7,325.97              | 4,071.10              | 94.55            | 94.90         | 90.081                | -555.68                             | 3,730.50     | 778.60                 | 589.48                  | 189.12                    | 4.117              |           |
| 7,320.00                   | 4,070.00              | 7,355.97              | 4,071.10              | 95.34            | 95.67         | 90.081                | -555.59                             | 3,760.50     | 778.59                 | 587.90                  | 190.68                    | 4.083              |           |
| 7,350.00                   | 4,070.00              | 7,385.97              | 4,071.10              | 96.12            | 96.45         | 90.081                | -555.51                             | 3,790.50     | 778.57                 | 586.33                  | 192.24                    | 4.050              |           |
| 7,380.00                   | 4,070.00              | 7,415.97              | 4,071.10              | 96.90            | 97.23         | 90.081                | -555.42                             | 3,820.50     | 778.56                 | 584.75                  | 193.81                    | 4.017              |           |
| 7,410.00                   | 4,070.00              | 7,445.97              | 4,071.10              | 97.68            | 98.01         | 90.081                | -555.33                             | 3,850.50     | 778.55                 | 583.18                  | 195.37                    | 3.985              |           |
| 7,440.00                   | 4,070.00              | 7,475.97              | 4,071.10              | 98.46            | 98.79         | 90.081                | -555.25                             | 3,880.50     | 778.54                 | 581.60                  | 196.93                    | 3.953              |           |
| 7,470.00                   | 4,070.00              | 7,505.97              | 4,071.10              | 99.24            | 99.57         | 90.081                | -555.16                             | 3,910.50     | 778.52                 | 580.03                  | 198.49                    | 3.922              |           |
| 7,500.00                   | 4,070.00              | 7,535.97              | 4,071.10              | 100.02           | 100.35        | 90.081                | -555.08                             | 3,940.50     | 778.51                 | 578.45                  | 200.06                    | 3.891              |           |
| 7,530.00                   | 4,070.00              | 7,565.97              | 4,071.10              | 100.80           | 101.13        | 90.081                | -554.99                             | 3,970.50     | 778.50                 | 576.88                  | 201.62                    | 3.861              |           |
| 7,560.00                   | 4,070.00              | 7,604.03              | 4,071.10              | 101.58           | 102.12        | 90.081                | -554.90                             | 4,000.50     | 778.49                 | 575.09                  | 203.40                    | 3.827              |           |
| 7,590.00                   | 4,070.00              | 7,625.97              | 4,071.10              | 102.37           | 102.69        | 90.081                | -554.82                             | 4,030.50     | 778.47                 | 573.72                  | 204.75                    | 3.802              |           |
| 7,620.00                   | 4,070.00              | 7,655.97              | 4,071.10              | 103.15           | 103.47        | 90.081                | -554.73                             | 4,060.50     | 778.46                 | 572.15                  | 206.31                    | 3.773              |           |
| 7,650.00                   | 4,070.00              | 7,685.97              | 4,071.10              | 103.93           | 104.25        | 90.081                | -554.64                             | 4,090.49     | 778.45                 | 570.57                  | 207.88                    | 3.745              |           |
| 7,680.00                   | 4,070.00              | 7,715.97              | 4,071.10              | 104.71           | 105.03        | 90.081                | -554.56                             | 4,120.49     | 778.43                 | 568.99                  | 209.44                    | 3.717              |           |
| 7,710.00                   | 4,070.00              | 7,745.97              | 4,071.10              | 105.49           | 105.81        | 90.081                | -554.47                             | 4,150.49     | 778.42                 | 567.41                  | 211.01                    | 3.689              |           |
| 7,740.00                   | 4,070.00              | 7,775.97              | 4,071.10              | 106.28           | 106.59        | 90.081                | -554.38                             | 4,180.49     | 778.41                 | 565.84                  | 212.57                    | 3.662              |           |
| 7,770.00                   | 4,070.00              | 7,805.97              | 4,071.10              | 107.06           | 107.37        | 90.081                | -554.30                             | 4,210.49     | 778.40                 | 564.26                  | 214.14                    | 3.635              |           |
| 7,800.00                   | 4,070.00              | 7,835.97              | 4,071.10              | 107.84           | 108.15        | 90.081                | -554.21                             | 4,240.49     | 778.38                 | 562.68                  | 215.71                    | 3.609              |           |
| 7,830.00                   | 4,070.00              | 7,865.97              | 4,071.10              | 108.63           | 108.93        | 90.081                | -554.12                             | 4,270.49     | 778.37                 | 561.10                  | 217.27                    | 3.582              |           |
| 7,860.00                   | 4,070.00              | 7,904.03              | 4,071.10              | 109.41           | 109.92        | 90.081                | -554.04                             | 4,300.49     | 778.36                 | 559.31                  | 219.05                    | 3.553              |           |
| 7,890.00                   | 4,070.00              | 7,925.97              | 4,071.10              | 110.19           | 110.49        | 90.081                | -553.95                             | 4,330.49     | 778.35                 | 557.94                  | 220.41                    | 3.531              |           |
| 7,920.00                   | 4,070.00              | 7,955.97              | 4,071.10              | 110.97           | 111.28        | 90.081                | -553.86                             | 4,360.49     | 778.33                 | 556.36                  | 221.97                    | 3.506              |           |
| 7,950.00                   | 4,070.00              | 7,985.97              | 4,071.10              | 111.76           | 112.06        | 90.081                | -553.78                             | 4,390.49     | 778.32                 | 554.78                  | 223.54                    | 3.482              |           |
| 7,980.00                   | 4,070.00              | 8,015.97              | 4,071.10              | 112.54           | 112.84        | 90.081                | -553.69                             | 4,420.49     | 778.31                 | 553.20                  | 225.11                    | 3.458              |           |
| 8,010.00                   | 4,070.00              | 8,045.97              | 4,071.10              | 113.32           | 113.62        | 90.081                | -553.60                             | 4,450.49     | 778.30                 | 551.62                  | 226.67                    | 3.434              |           |
| 8,040.00                   | 4,070.00              | 8,075.97              | 4,071.10              | 114.11           | 114.40        | 90.081                | -553.52                             | 4,480.49     | 778.28                 | 550.04                  | 228.24                    | 3.410              |           |
| 8,070.00                   | 4,070.00              | 8,105.97              | 4,071.10              | 114.89           | 115.19        | 90.081                | -553.43                             | 4,510.49     | 778.27                 | 548.46                  | 229.81                    | 3.387              |           |
| 8,100.00                   | 4,070.00              | 8,135.97              | 4,071.10              | 115.68           | 115.97        | 90.081                | -553.34                             | 4,540.49     | 778.26                 | 546.88                  | 231.38                    | 3.364              |           |
| 8,130.00                   | 4,070.00              | 8,165.97              | 4,071.10              | 116.46           | 116.75        | 90.081                | -553.26                             | 4,570.49     | 778.24                 | 545.30                  | 232.95                    | 3.341              |           |
| 8,160.00                   | 4,070.00              | 8,204.03              | 4,071.10              | 117.24           | 117.74        | 90.081                | -553.17                             | 4,600.49     | 778.23                 | 543.51                  | 234.73                    | 3.315              |           |
| 8,190.00                   | 4,070.00              | 8,225.97              | 4,071.10              | 118.03           | 118.32        | 90.081                | -553.09                             | 4,630.49     | 778.22                 | 542.14                  | 236.08                    | 3.296              |           |
| 8,220.00                   | 4,070.00              | 8,255.97              | 4,071.10              | 118.81           | 119.10        | 90.081                | -553.00                             | 4,660.49     | 778.21                 | 540.55                  | 237.65                    | 3.275              |           |
| 8,250.00                   | 4,070.00              | 8,285.97              | 4,071.10              | 119.60           | 119.88        | 90.081                | -552.91                             | 4,690.49     | 778.19                 | 538.97                  | 239.22                    | 3.253              |           |
| 8,280.00                   | 4,070.00              | 8,315.97              | 4,071.10              | 120.38           | 120.66        | 90.081                | -552.83                             | 4,720.49     | 778.18                 | 537.39                  | 240.79                    | 3.232              |           |
| 8,310.00                   | 4,070.00              | 8,345.97              | 4,071.10              | 121.17           | 121.45        | 90.081                | -552.74                             | 4,750.49     | 778.17                 | 535.81                  | 242.36                    | 3.211              |           |
| 8,340.00                   | 4,070.00              | 8,375.97              | 4,071.10              | 121.95           | 122.23        | 90.081                | -552.65                             | 4,780.49     | 778.16                 | 534.22                  | 243.93                    | 3.190              |           |
| 8,370.00                   | 4,070.00              | 8,405.97              | 4,071.10              | 122.74           | 123.01        | 90.081                | -552.57                             | 4,810.49     | 778.14                 | 532.64                  | 245.50                    | 3.170              |           |
| 8,400.00                   | 4,070.00              | 8,435.97              | 4,071.10              | 123.52           | 123.80        | 90.081                | -552.48                             | 4,840.49     | 778.13                 | 531.06                  | 247.07                    | 3.149              |           |
| 8,430.00                   | 4,070.00              | 8,465.97              | 4,071.10              | 124.31           | 124.58        | 90.081                | -552.39                             | 4,870.49     | 778.12                 | 529.48                  | 248.64                    | 3.129              |           |
| 8,460.00                   | 4,070.00              | 8,504.03              | 4,071.10              | 125.09           | 125.58        | 90.081                | -552.31                             | 4,900.49     | 778.11                 | 527.68                  | 250.42                    | 3.107              |           |
| 8,490.00                   | 4,070.00              | 8,525.97              | 4,071.10              | 125.88           | 126.15        | 90.081                | -552.22                             | 4,930.49     | 778.09                 | 526.31                  | 251.78                    | 3.090              |           |
| 8,520.00                   | 4,070.00              | 8,555.97              | 4,071.10              | 126.66           | 126.93        | 90.081                | -552.13                             | 4,960.49     | 778.08                 | 524.73                  | 253.35                    | 3.071              |           |
| 8,550.00                   | 4,070.00              | 8,585.97              | 4,071.10              | 127.45           | 127.72        | 90.081                | -552.05                             | 4,990.49     | 778.07                 | 523.14                  | 254.92                    | 3.052              |           |
| 8,580.00                   | 4,070.00              | 8,615.97              | 4,071.10              | 128.23           | 128.50        | 90.081                | -551.96                             | 5,020.49     | 778.06                 | 521.56                  | 256.50                    | 3.033              |           |

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 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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>Offset Design</b> OZZY FED COM 18C - 003H - Wellbore #1 - Plan #2 |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Site Error:</b> | 0.00 usft |
|----------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|------------------|---------------|-----------------------|-------------------------------------|--------------|------------------------|-------------------------|---------------------------|---------------------------|-----------|
| Survey Program: 0-MWD+IGRF                                           |                       |                       |                       |                  |               |                       |                                     |              |                        |                         |                           | <b>Offset Well Error:</b> | 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   |
| 8,610.00                                                             | 4,070.00              | 8,645.97              | 4,071.10              | 129.02           | 129.29        | 90.081                | -551.87                             | 5,050.49     | 778.04                 | 519.98                  | 258.07                    | 3.015                     |           |
| 8,640.00                                                             | 4,070.00              | 8,675.97              | 4,071.10              | 129.80           | 130.07        | 90.081                | -551.79                             | 5,080.49     | 778.03                 | 518.39                  | 259.64                    | 2.997                     |           |
| 8,670.00                                                             | 4,070.00              | 8,705.97              | 4,071.10              | 130.59           | 130.85        | 90.081                | -551.70                             | 5,110.49     | 778.02                 | 516.81                  | 261.21                    | 2.979                     |           |
| 8,700.00                                                             | 4,070.00              | 8,735.97              | 4,071.10              | 131.37           | 131.64        | 90.081                | -551.61                             | 5,140.49     | 778.00                 | 515.22                  | 262.78                    | 2.961                     |           |
| 8,730.00                                                             | 4,070.00              | 8,765.97              | 4,071.10              | 132.16           | 132.42        | 90.081                | -551.53                             | 5,170.49     | 777.99                 | 513.64                  | 264.35                    | 2.943                     |           |
| 8,760.00                                                             | 4,070.00              | 8,804.03              | 4,071.10              | 132.95           | 133.42        | 90.081                | -551.44                             | 5,200.49     | 777.98                 | 511.84                  | 266.14                    | 2.923                     |           |
| 8,790.00                                                             | 4,070.00              | 8,825.97              | 4,071.10              | 133.73           | 133.99        | 90.081                | -551.35                             | 5,230.49     | 777.97                 | 510.47                  | 267.50                    | 2.908                     |           |
| 8,820.00                                                             | 4,070.00              | 8,855.97              | 4,071.10              | 134.52           | 134.78        | 90.081                | -551.27                             | 5,260.49     | 777.95                 | 508.89                  | 269.07                    | 2.891                     |           |
| 8,850.00                                                             | 4,070.00              | 8,885.97              | 4,071.10              | 135.30           | 135.56        | 90.081                | -551.18                             | 5,290.49     | 777.94                 | 507.30                  | 270.64                    | 2.874                     |           |
| 8,880.00                                                             | 4,070.00              | 8,915.97              | 4,071.10              | 136.09           | 136.35        | 90.081                | -551.10                             | 5,320.49     | 777.93                 | 505.72                  | 272.21                    | 2.858                     |           |
| 8,910.00                                                             | 4,070.00              | 8,945.97              | 4,071.10              | 136.88           | 137.13        | 90.081                | -551.01                             | 5,350.49     | 777.92                 | 504.13                  | 273.79                    | 2.841                     |           |
| 8,940.00                                                             | 4,070.00              | 8,975.97              | 4,071.10              | 137.66           | 137.92        | 90.081                | -550.92                             | 5,380.49     | 777.90                 | 502.55                  | 275.36                    | 2.825                     |           |
| 8,970.00                                                             | 4,070.00              | 9,005.97              | 4,071.10              | 138.45           | 138.70        | 90.081                | -550.84                             | 5,410.49     | 777.89                 | 500.96                  | 276.93                    | 2.809                     |           |
| 9,000.00                                                             | 4,070.00              | 9,035.97              | 4,071.10              | 139.23           | 139.49        | 90.081                | -550.75                             | 5,440.49     | 777.88                 | 499.37                  | 278.50                    | 2.793                     |           |
| 9,030.00                                                             | 4,070.00              | 9,065.97              | 4,071.10              | 140.02           | 140.27        | 90.081                | -550.66                             | 5,470.49     | 777.87                 | 497.79                  | 280.08                    | 2.777                     |           |
| 9,060.00                                                             | 4,070.00              | 9,095.97              | 4,071.10              | 140.81           | 141.06        | 90.081                | -550.58                             | 5,500.49     | 777.85                 | 496.20                  | 281.65                    | 2.762                     |           |
| 9,090.00                                                             | 4,070.00              | 9,125.97              | 4,071.10              | 141.59           | 141.84        | 90.081                | -550.49                             | 5,530.49     | 777.84                 | 494.62                  | 283.22                    | 2.746                     |           |
| 9,120.00                                                             | 4,070.00              | 9,155.97              | 4,071.10              | 142.38           | 142.63        | 90.081                | -550.40                             | 5,560.49     | 777.83                 | 493.03                  | 284.80                    | 2.731                     |           |
| 9,150.00                                                             | 4,070.00              | 9,185.97              | 4,071.10              | 143.17           | 143.41        | 90.081                | -550.32                             | 5,590.49     | 777.81                 | 491.45                  | 286.37                    | 2.716                     |           |
| 9,156.48                                                             | 4,070.00              | 9,192.45              | 4,071.10              | 143.34           | 143.58        | 90.081                | -550.30                             | 5,596.97     | 777.81                 | 491.10                  | 286.71                    | 2.713 SF                  |           |

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



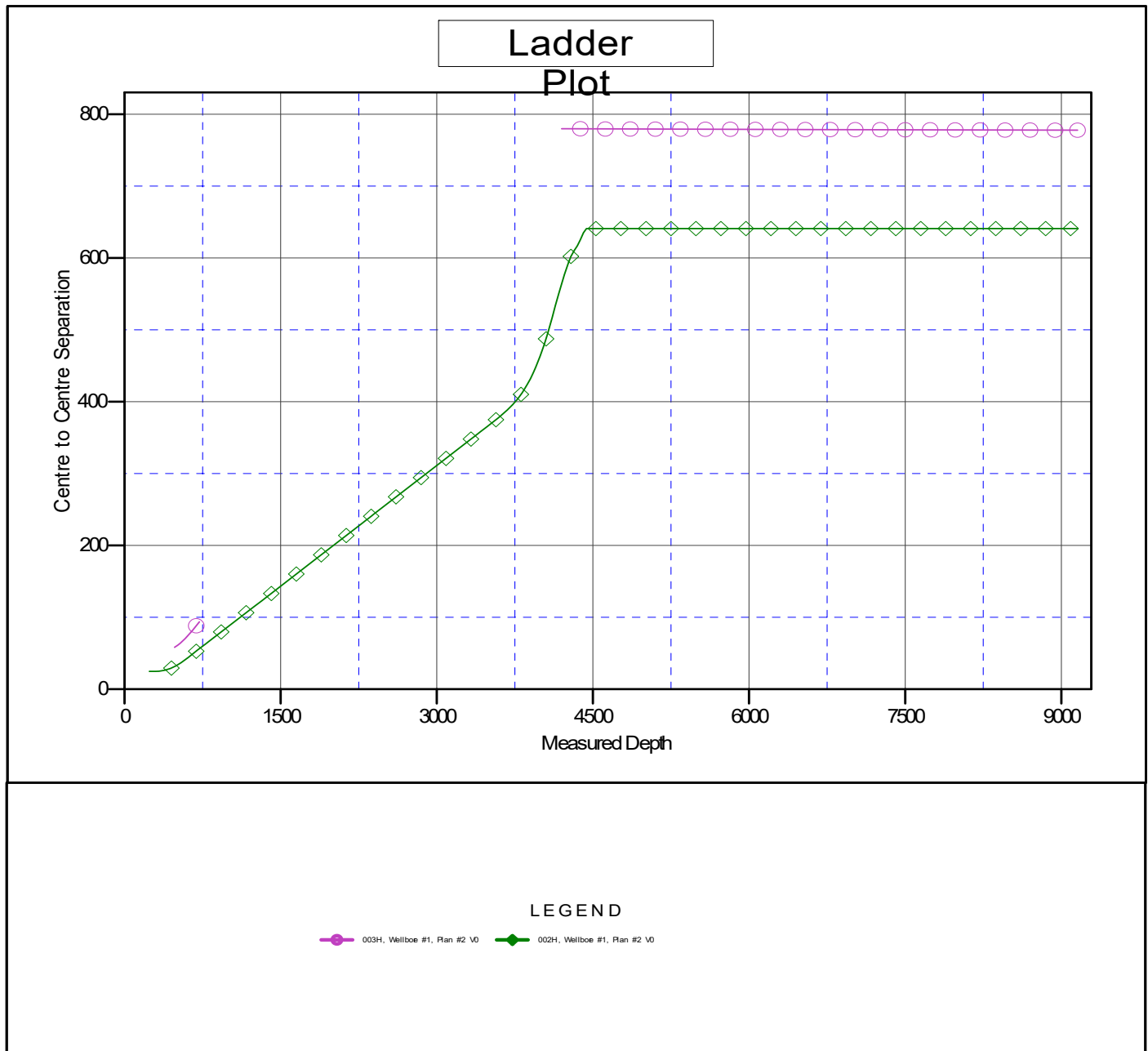
## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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 @ 3715.90usft  
 Offset Depths are relative to Offset Datum  
 Central Meridian is -104.333334

Coordinates are relative to: 001H  
 Coordinate System is US State Plane 1983, New Mexico Eastern Zone  
 Grid Convergence at Surface is: 0.114°





## Anticollision Report



|                           |                       |                                     |                       |
|---------------------------|-----------------------|-------------------------------------|-----------------------|
| <b>Company:</b>           | Longfellow Energy     | <b>Local Co-ordinate Reference:</b> | Well 001H             |
| <b>Project:</b>           | Eddy Co., NM (Nad-83) | <b>TVD Reference:</b>               | EST RKB @ 3715.90usft |
| <b>Reference Site:</b>    | OZZY FED COM 18C      | <b>MD Reference:</b>                | EST RKB @ 3715.90usft |
| <b>Site Error:</b>        | 0.00 usft             | <b>North Reference:</b>             | Grid                  |
| <b>Reference Well:</b>    | 001H                  | <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 @ 3715.90usft

Offset Depths are relative to Offset Datum

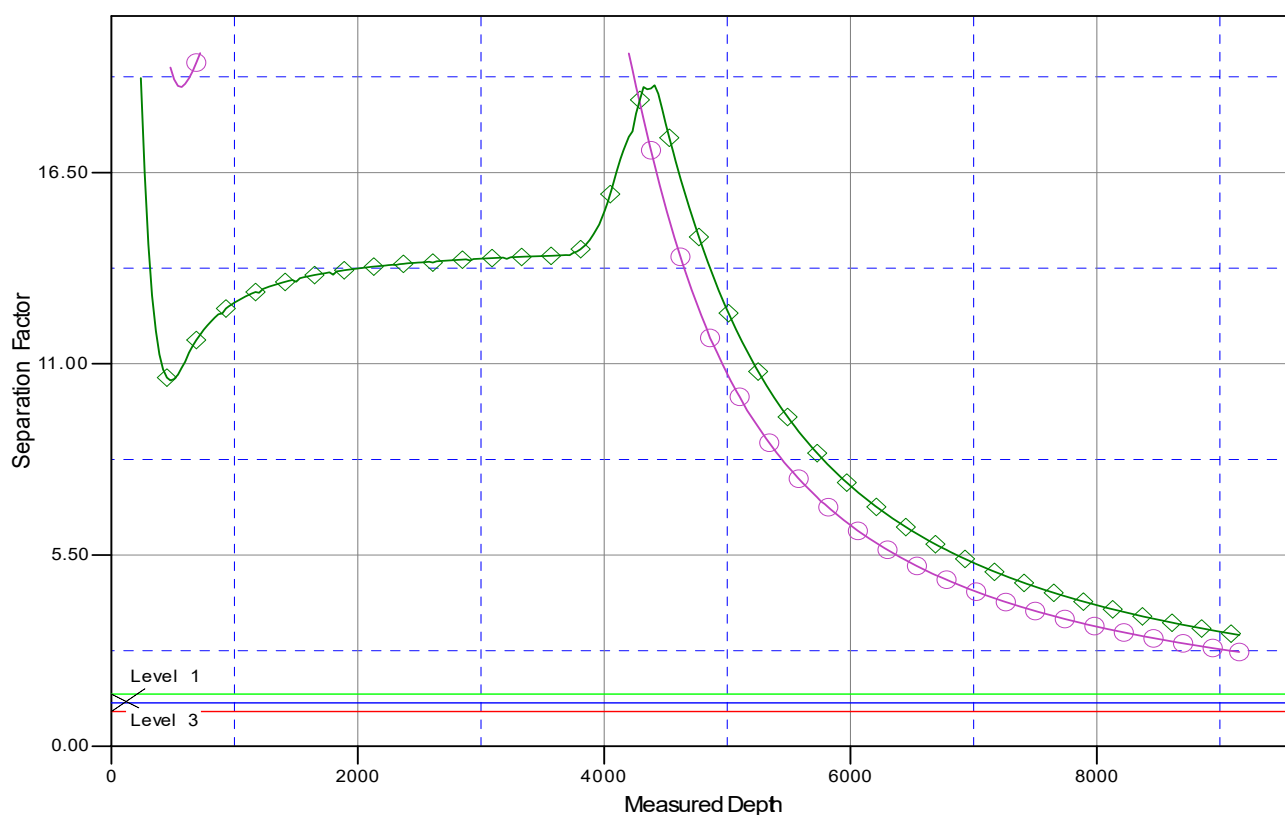
Central Meridian is -104.333334

Coordinates are relative to: 001H

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

Grid Convergence at Surface is: 0.114°

## Separation Factor Plot



## LEGEND

003H, Wellbore #1, Plan #2 V0      002H, 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  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

COMMENTS  
  
Action 35711

COMMENTS

|                                                                             |                                                      |
|-----------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>LONGFELLOW ENERGY, LP<br>8115 Preston Road<br>Dallas, TX 75225 | OGRID:<br>372210                                     |
|                                                                             | Action Number:<br>35711                              |
|                                                                             | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

COMMENTS

| Created By | Comment                | Comment Date |
|------------|------------------------|--------------|
| kpickford  | KP GEO Review 7/8/2021 | 7/9/2021     |

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CONDITIONS  
  
Action 35711

CONDITIONS

|                                                                             |                                                      |
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CONDITIONS

|            |                                                 |                |
|------------|-------------------------------------------------|----------------|
| Created By | Condition                                       | Condition Date |
| kpickford  | Adhere to previous NMOCD Conditions of Approval | 7/9/2021       |