

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

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

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.

Operator Electronic Signature: BRIAN WOOD	Signed on: JUN 04, 2021 10:22 AM
Name: LONGFELLOW ENERGY LP	
Title: President	
Street Address: 37 VERANO LOOP	
City: SANTA FE	State: NM
Phone: (505) 466-8120	
Email address: AFMSS@PERMITSWEST.COM	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752342234	BLM POC Email Address: cwalls@blm.gov
Disposition: Approved	Disposition Date: 07/08/2021
Signature: 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

¹ API Number 30-015-48309	² Pool Code 96210	³ Pool Name EMPIRE; GLORIETA-YESO
⁴ Property Code 330802	⁵ Property Name OZZY FEDERAL COM 18C	⁶ Well Number 001H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁹ Elevation 3698.9

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	13	17 S	28 E		1640	SOUTH	765	EAST	EDDY

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	18	17 S	29 E		2318	SOUTH	20	EAST	EDDY

¹² Dedicated Acres 146.92	¹³ Joint or Infill	¹⁴ Consolidation Code C	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Cory Walk</i> 6/4/2021 Signature Date Cory Walk Printed Name cory@permitswest.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 26, 2021 Date of Survey <i>William F. Jaramila</i> Signature and Seal of Professional Surveyor Certificate Number: PL 12797 SURVEY NO. 8389B
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Intent ☐ As Drilled ☐

API #		
Operator Name: LONGFELLOW ENERGY, LP	Property Name: OZZY FEDERAL COM 18C	Well Number 001H

Kick Off Point (KOP)

UL I	Section 13	Township 17S	Range 28E	Lot	Feet 1640	From N/S SOUTH	Feet 765	From E/W EAST	County EDDY
Latitude 32.8330869					Longitude 104.1238843				NAD 83

First Take Point (FTP)

UL I	Section 18	Township 17S	Range 29E	Lot 3	Feet 2305	From N/S SOUTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.8336755					Longitude 104.1210660				NAD 83

Last Take Point (LTP)

UL I	Section 18	Township 17S	Range 29E	Lot	Feet 2318	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.8336814					Longitude 104.1059285				NAD 83

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

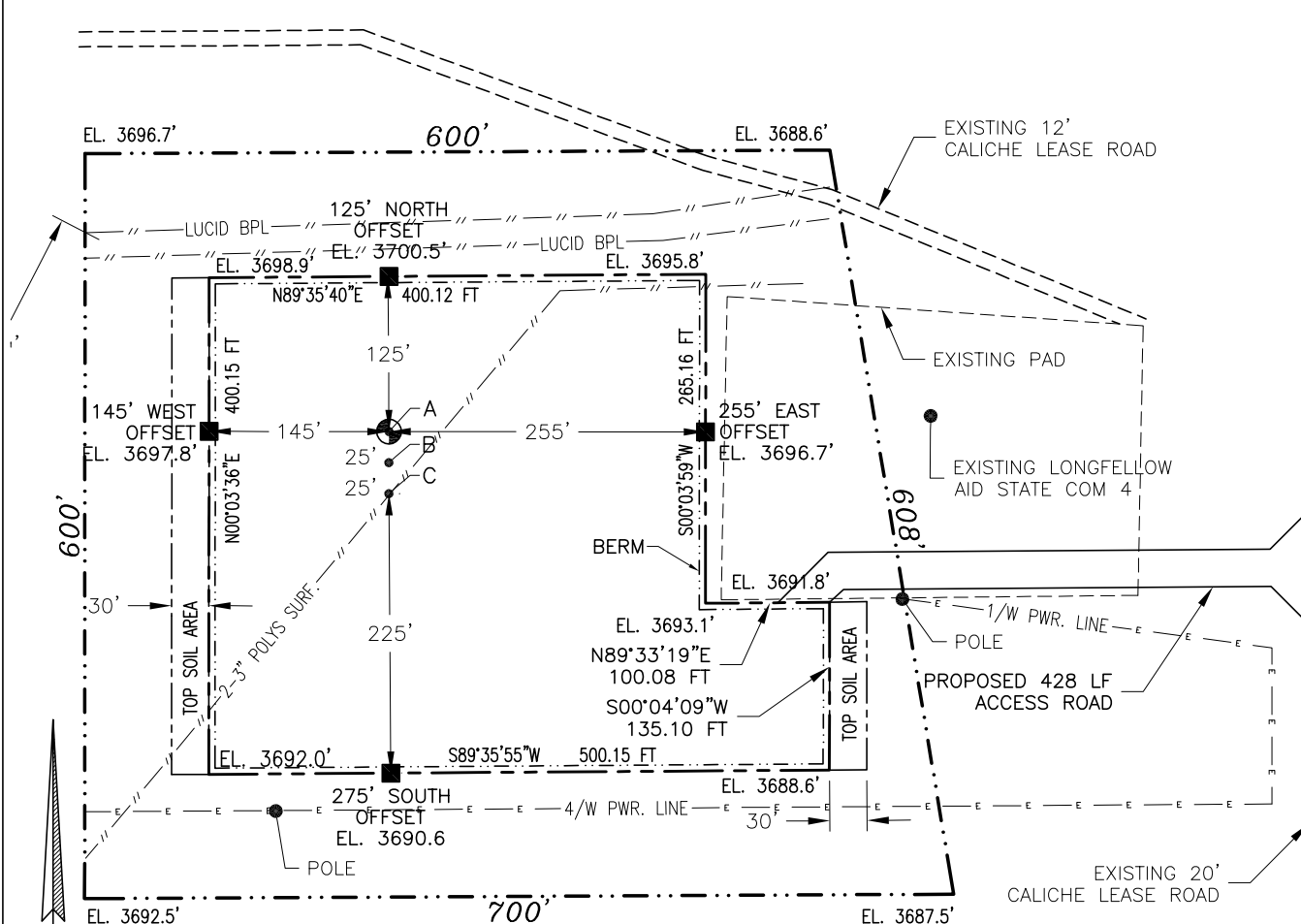
If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

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, P.E. 12797

MADRON SURVEYING, INC.

301 SOUTH CANAL
(575) 234-3341

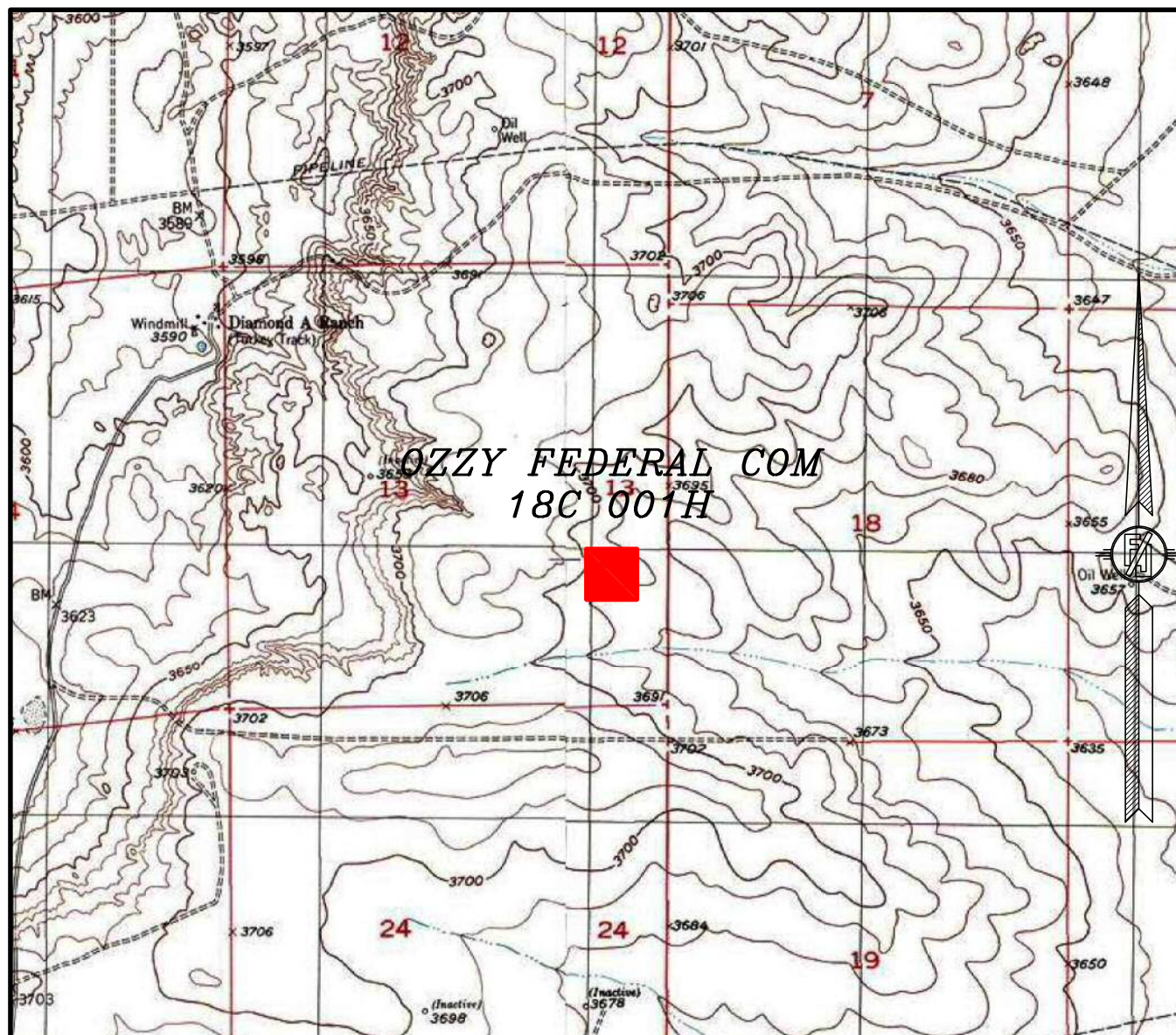
CARLSBAD, NEW MEXICO

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

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

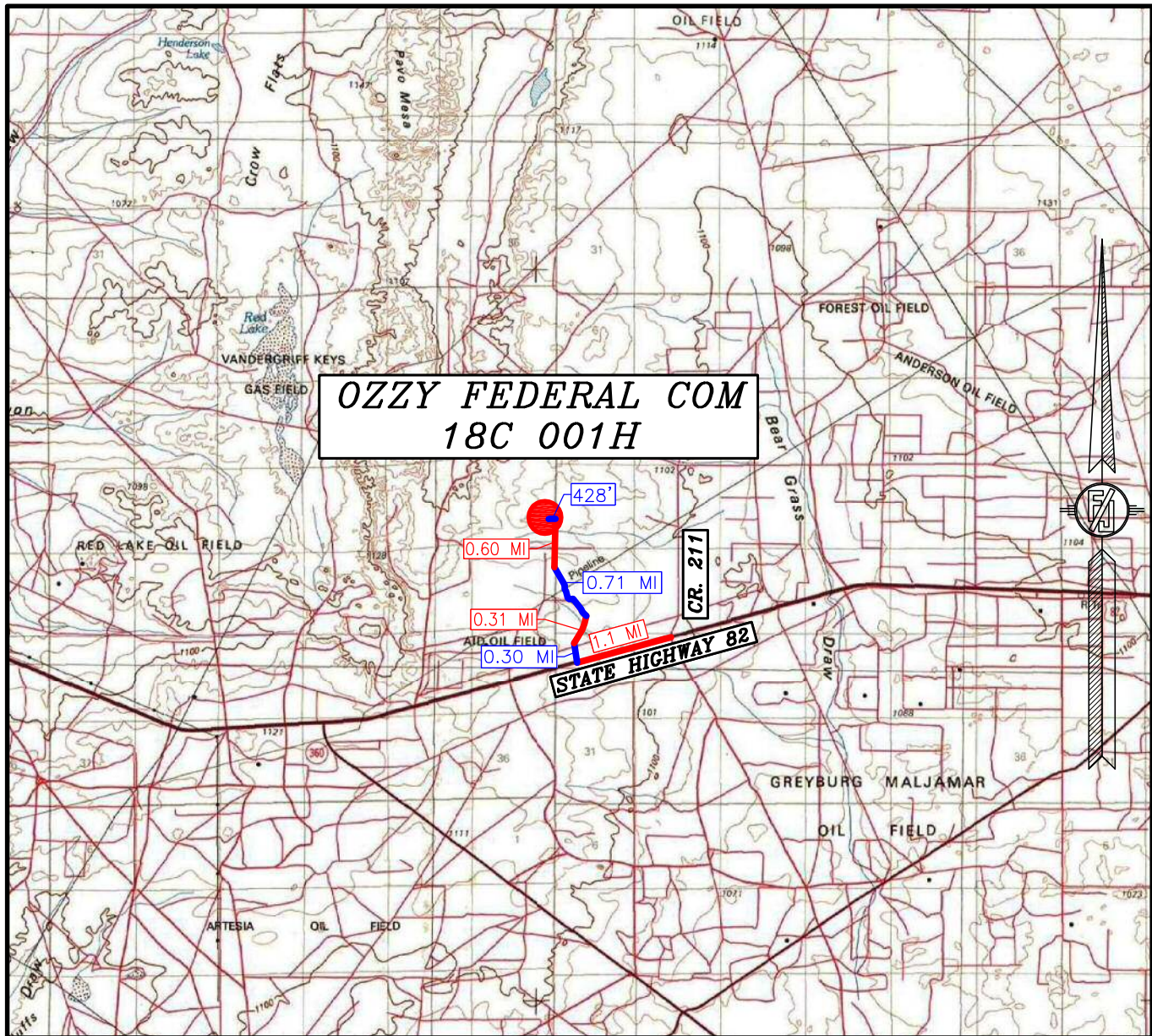
LONGFELLOW ENERGY, LP
OZZY FEDERAL COM 18C 001H
 LOCATED 1640 FT. FROM THE SOUTH LINE
 AND 765 FT. FROM THE EAST LINE OF
 SECTION 13, TOWNSHIP 17 SOUTH,
 RANGE 28 EAST, N.M.P.M.
 EDDY COUNTY, STATE OF NEW MEXICO

MAY 26, 2021

SURVEY NO. 8389B

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

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

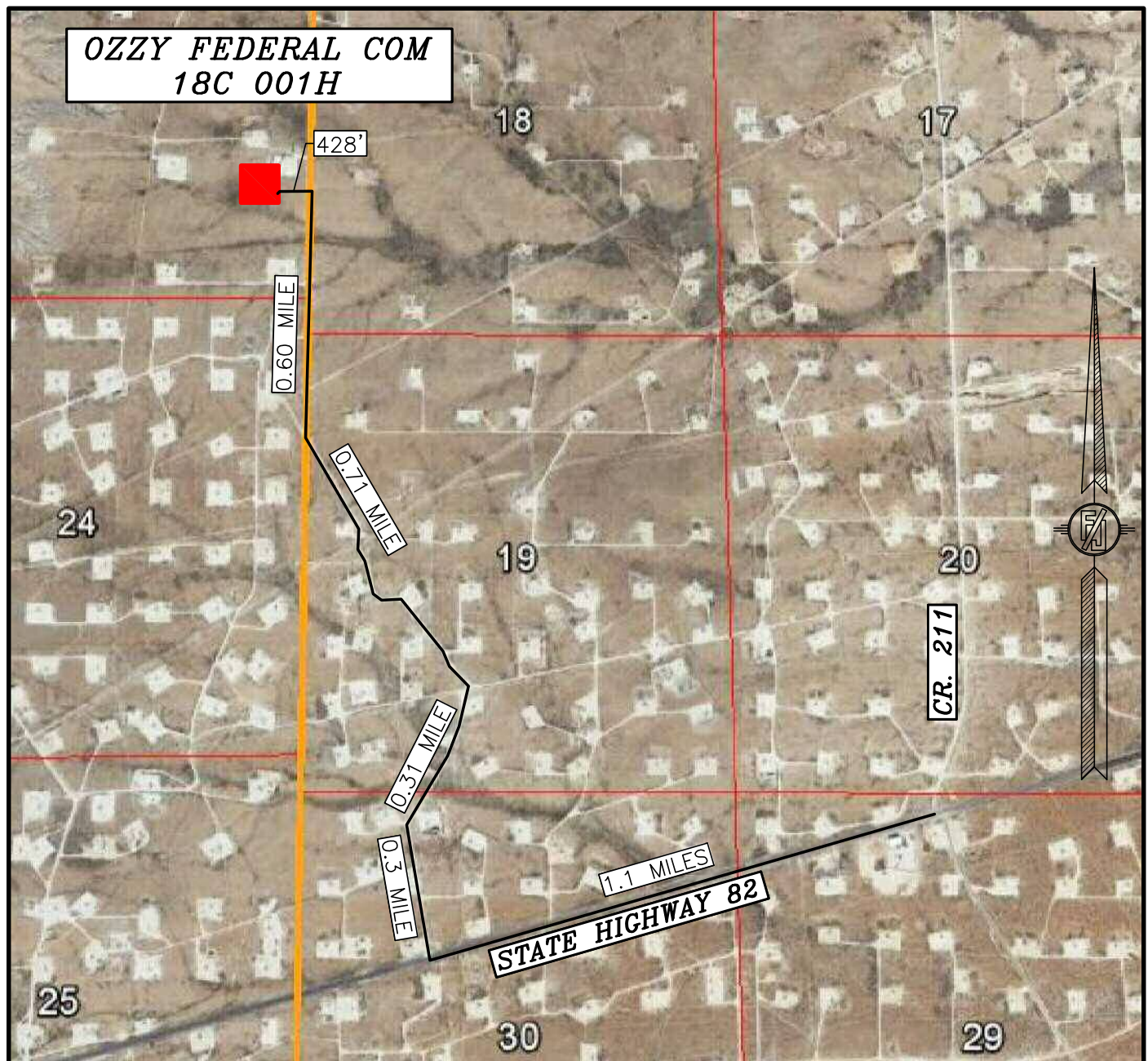
MAY 26, 2021

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



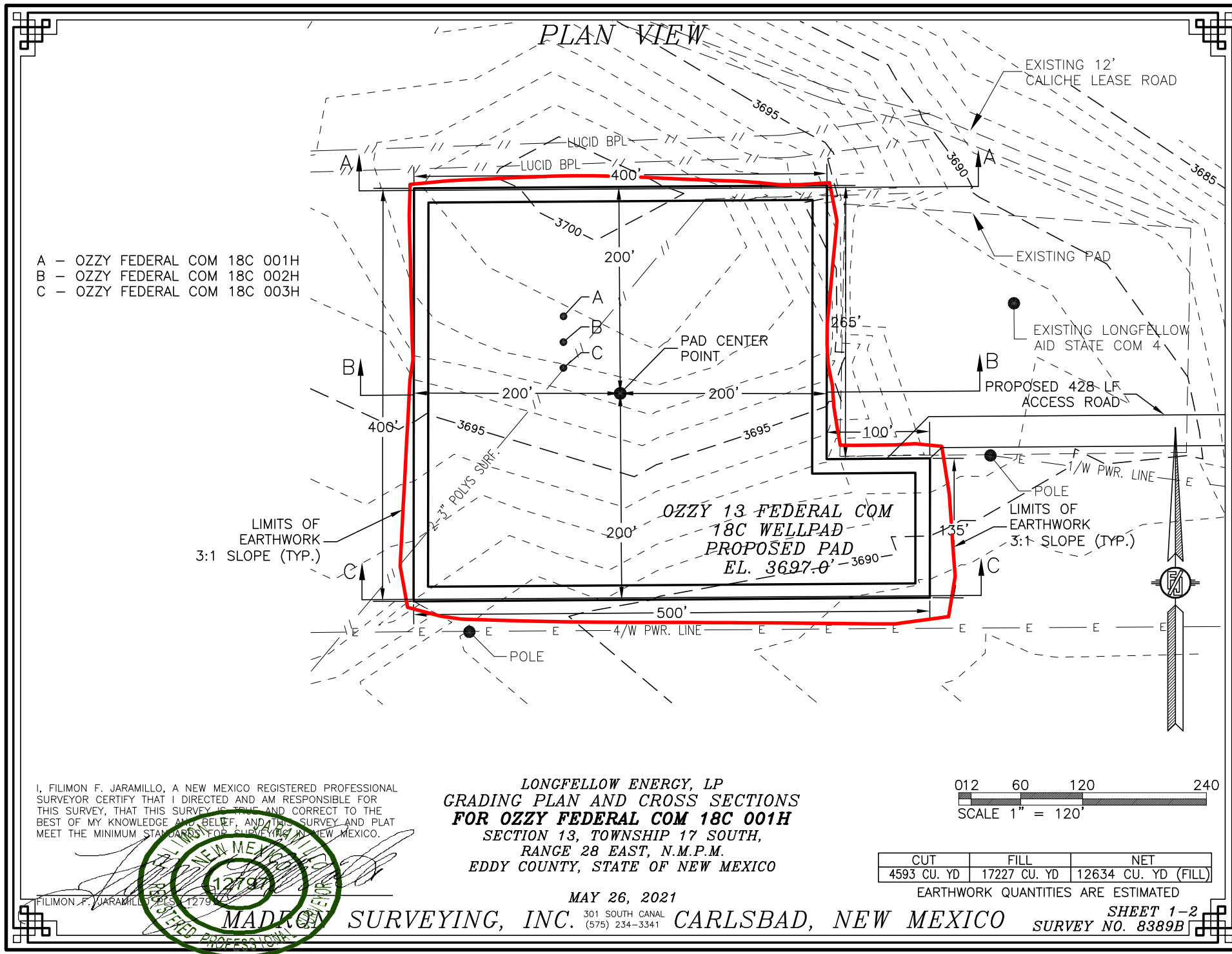
NOT TO SCALE
 AERIAL PHOTO:
 GOOGLE EARTH
 DECEMBER 2019

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

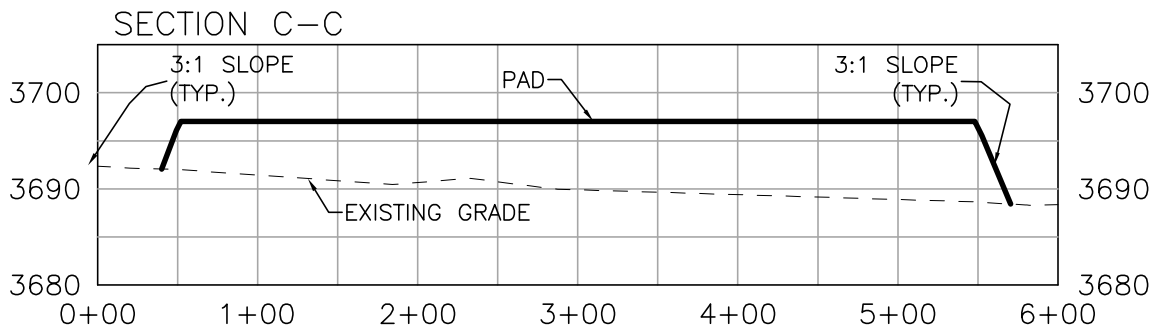
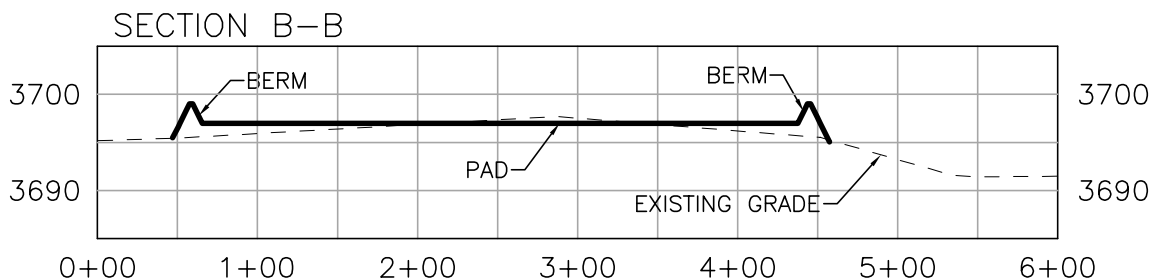
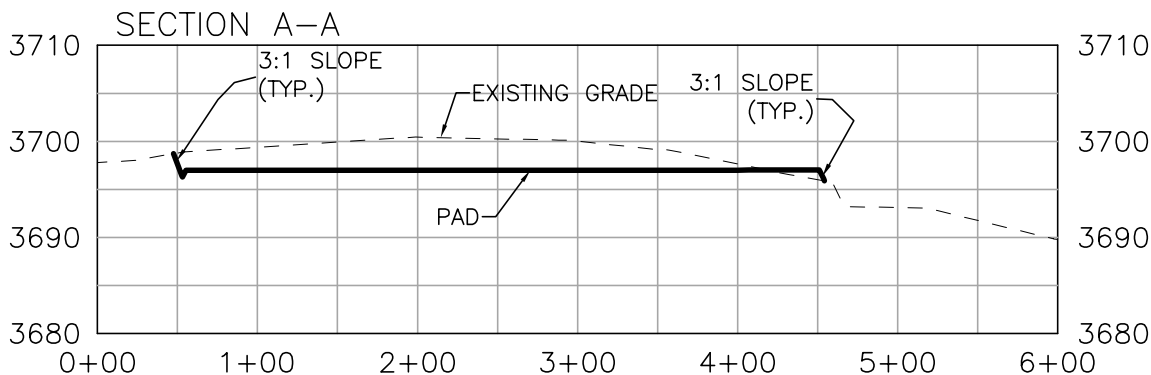
MAY 26, 2021

SURVEY NO. 8389B

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



CROSS-SECTIONS



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

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)

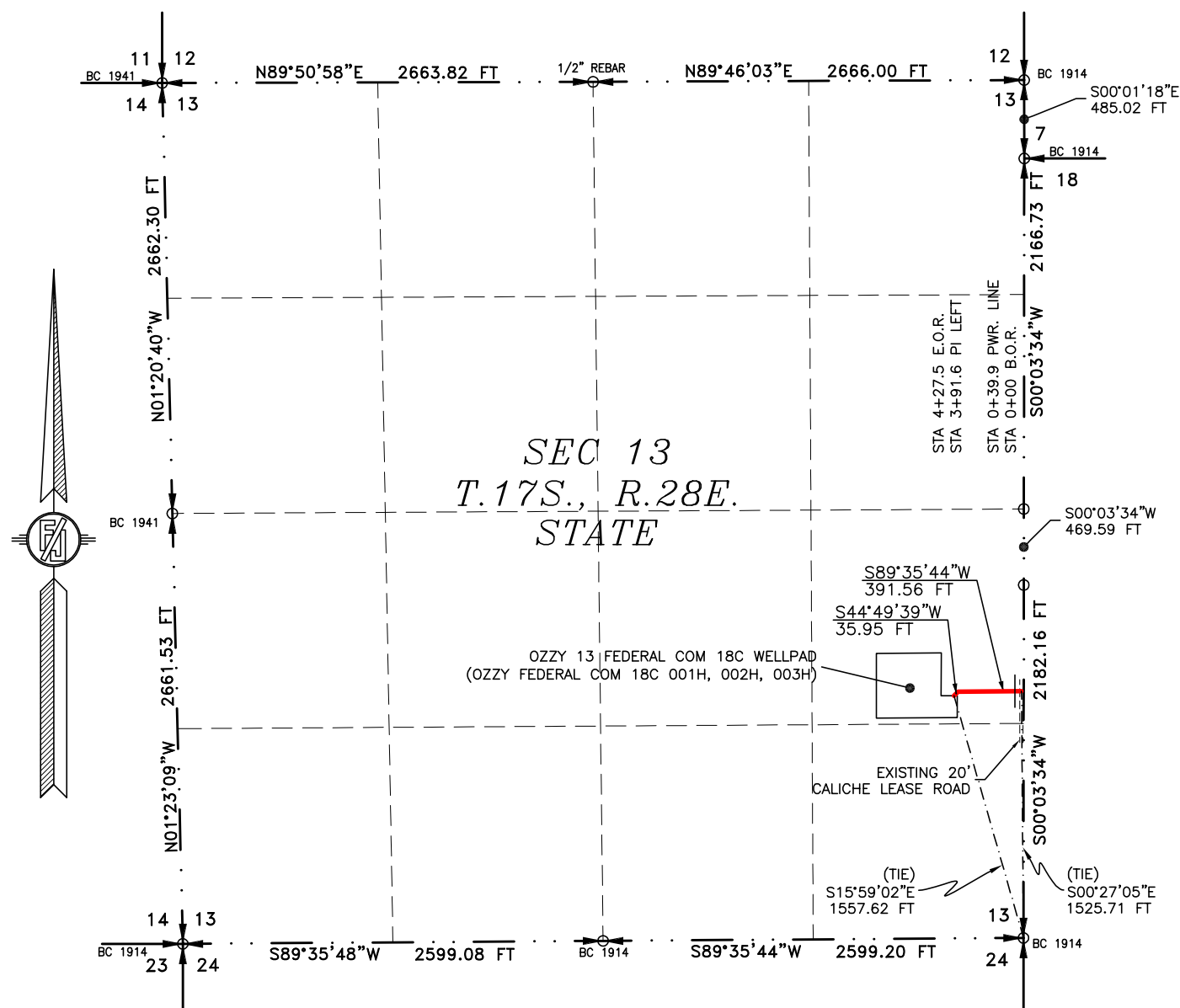
EARTHWORK QUANTITIES ARE ESTIMATED

SHEET 2-2
SURVEY NO. 8389B

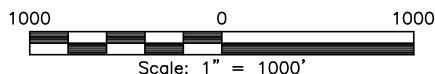
ACCESS ROAD PLAT

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.

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

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

SURVEY NO. 8389B

CARLSBAD, NEW MEXICO

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 26TH 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



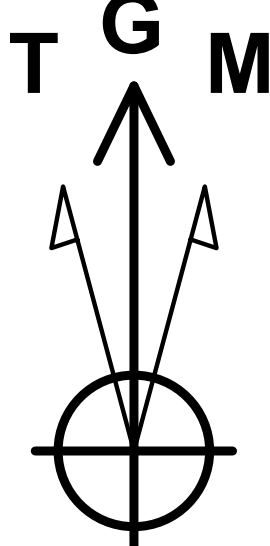
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL	0.00	0.00	0.00	666873.72	605670.34	32.833087	-104.123884
PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL	4070.00	227.51	5594.73	667101.23	611265.07	32.833680	-104.105668
PLAT/ OZZY #1H FTP: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



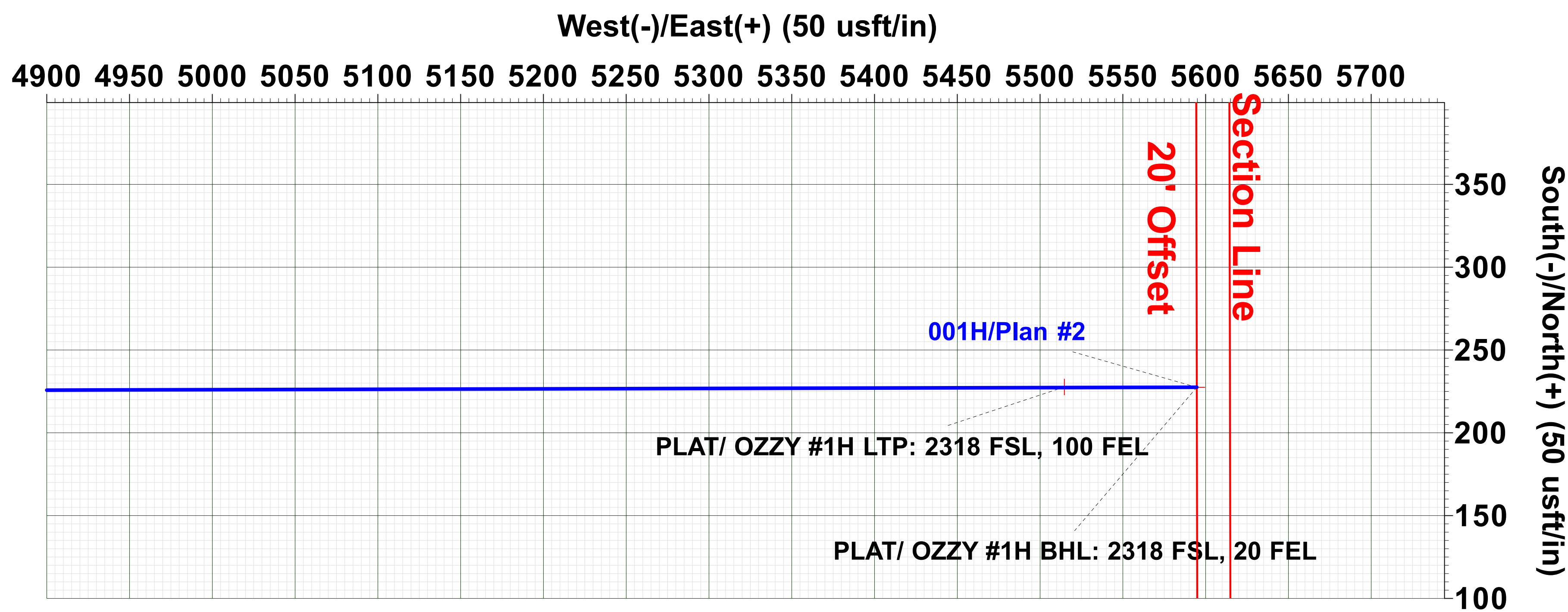
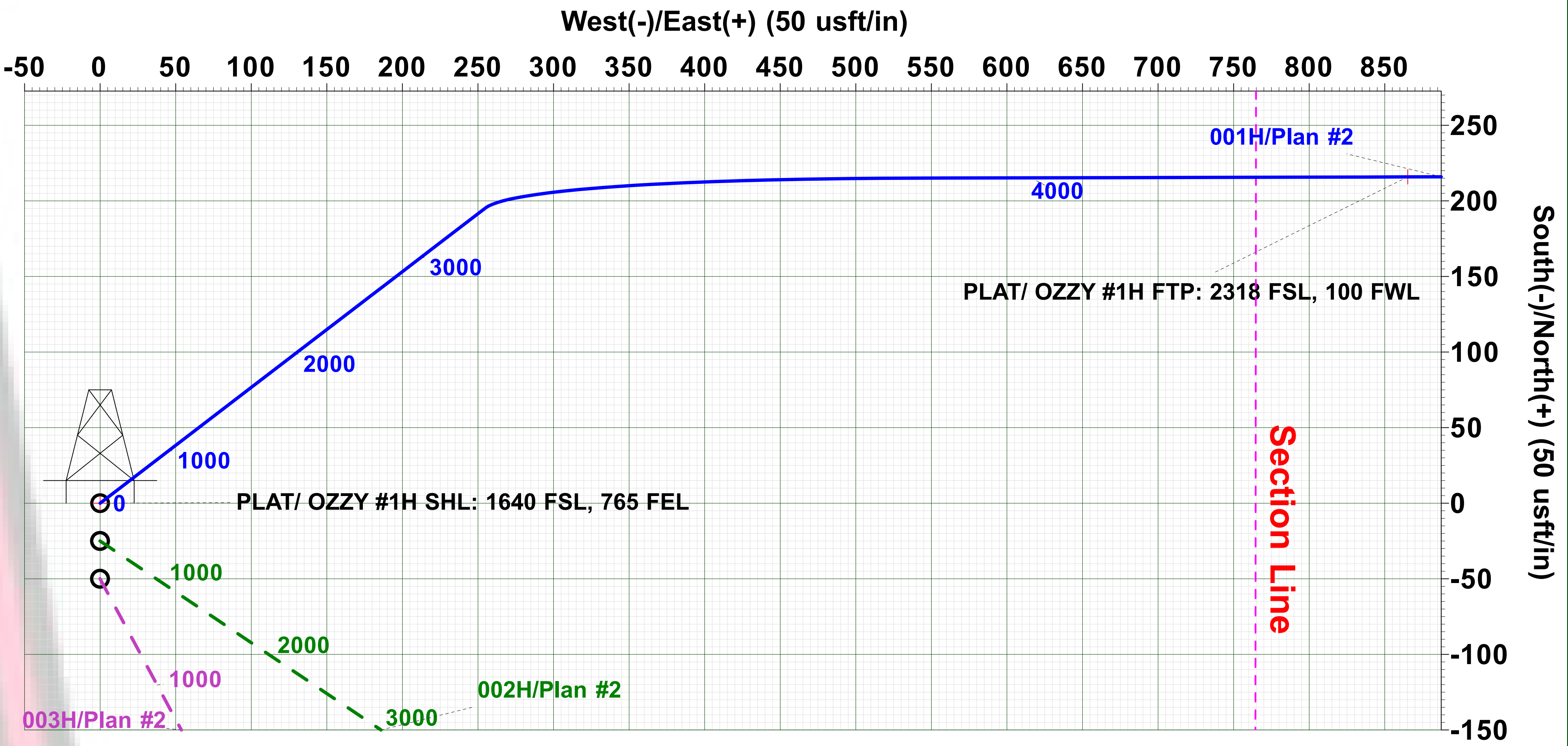
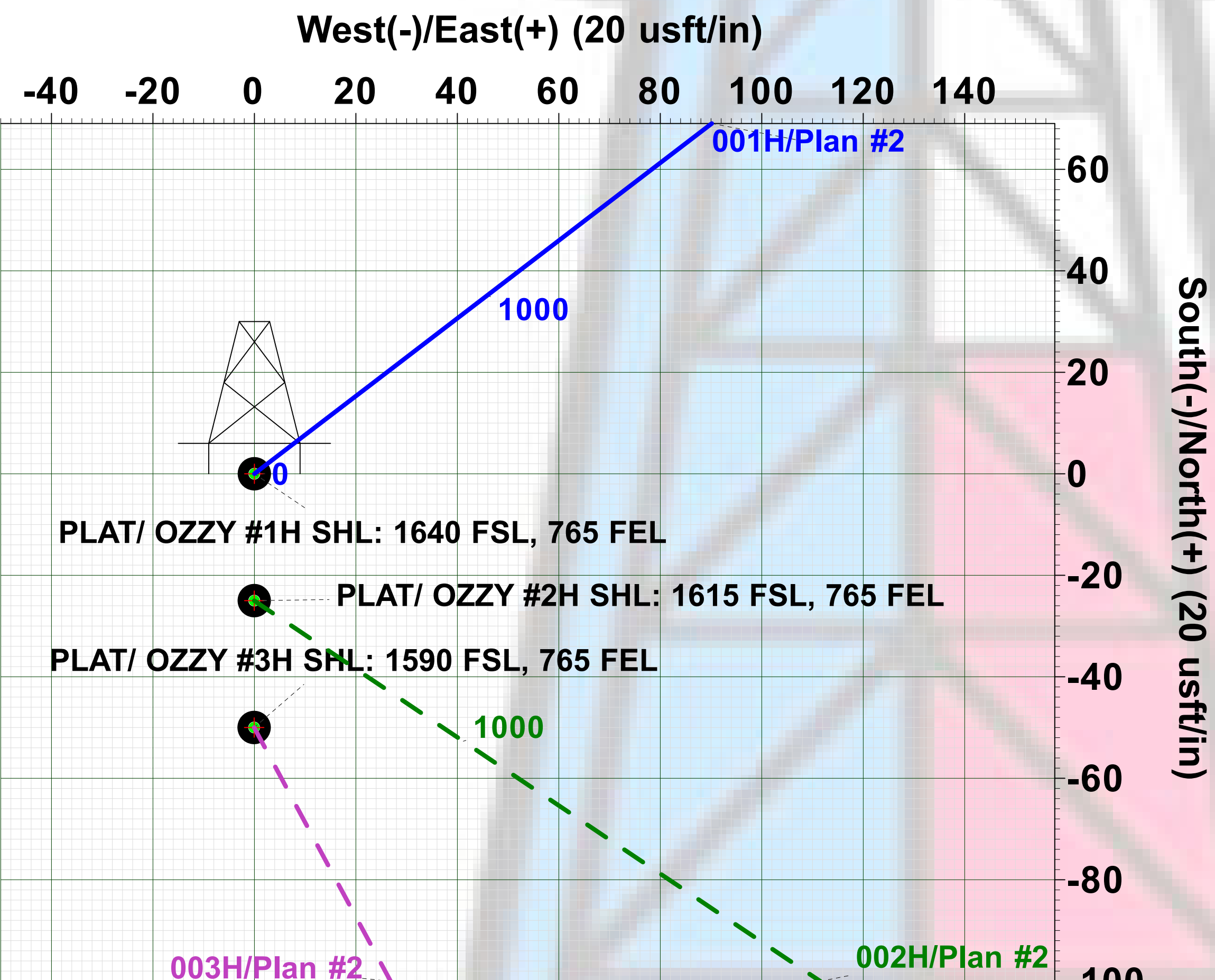
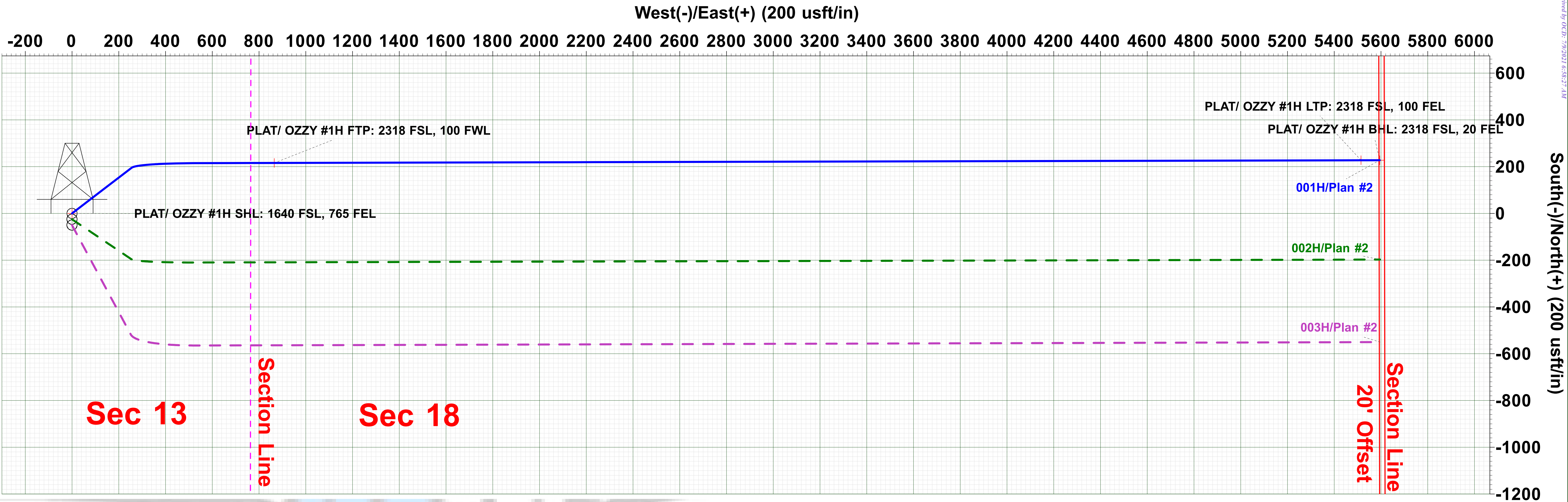
Azimuths to Grid North
True North: -0.11°
Magnetic North: 6.74°

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



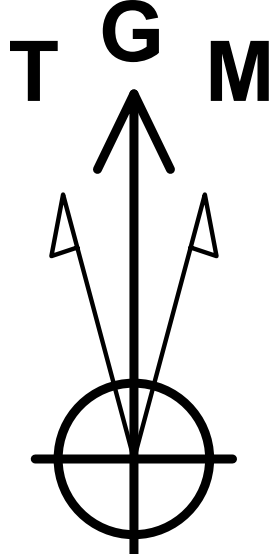
DESIGN TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL	0.00	0.00	0.00	666873.72	605670.34	32.833087	-104.123884
PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL	4070.00	227.51	5594.73	667101.23	611265.07	32.833680	-104.105668
PLAT/ OZZY #1H FTP: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



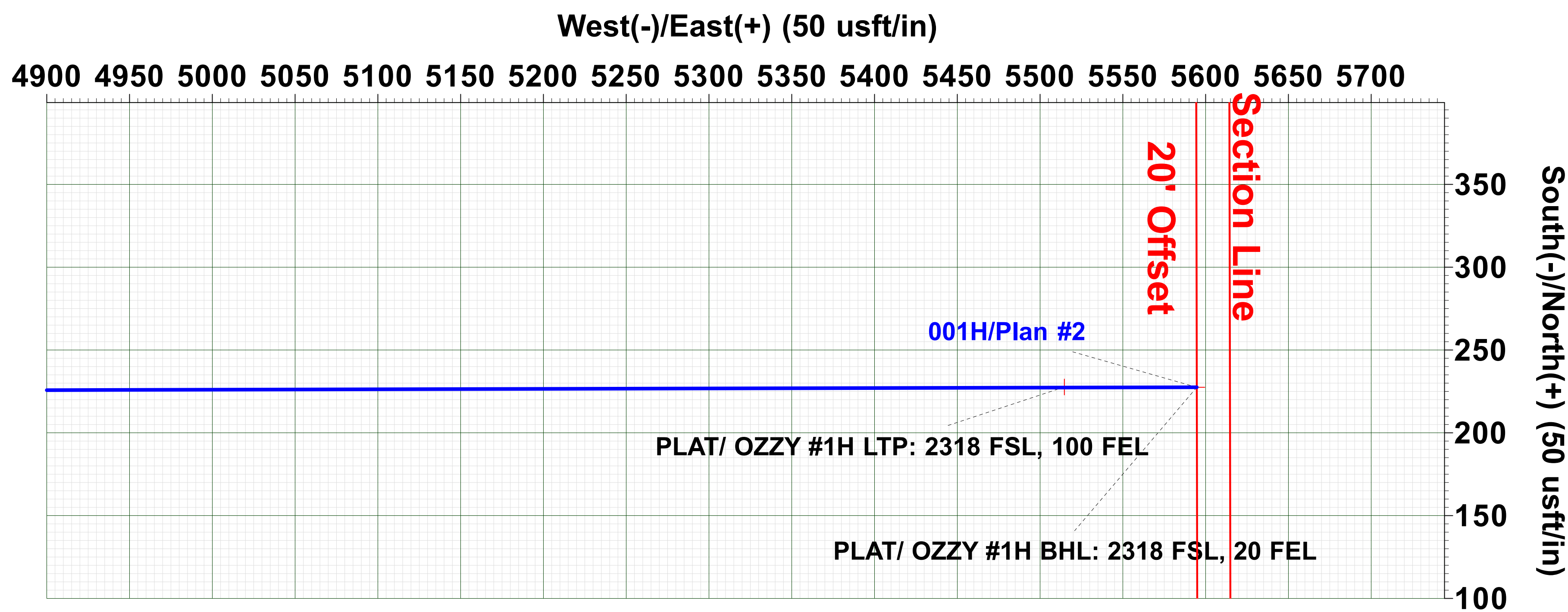
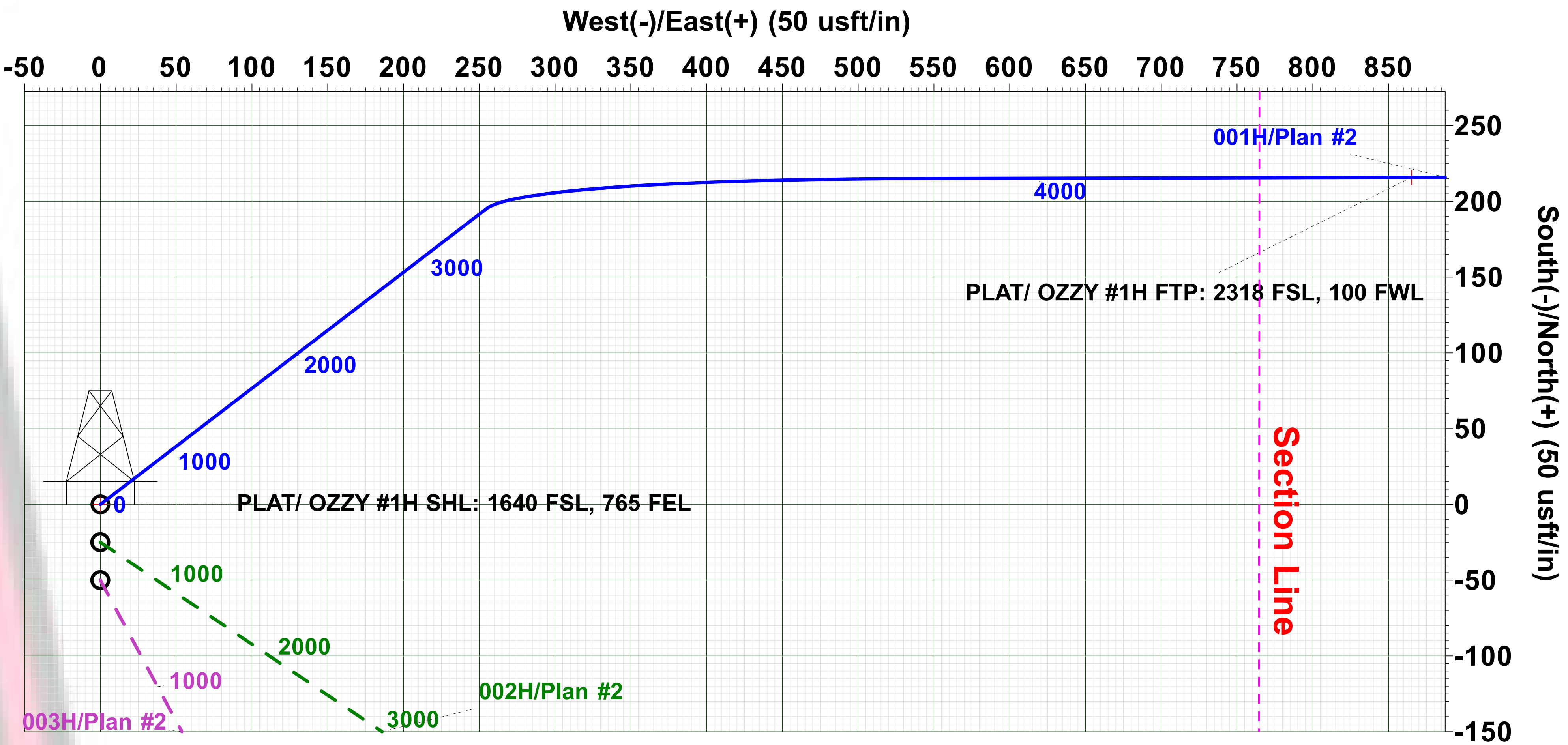
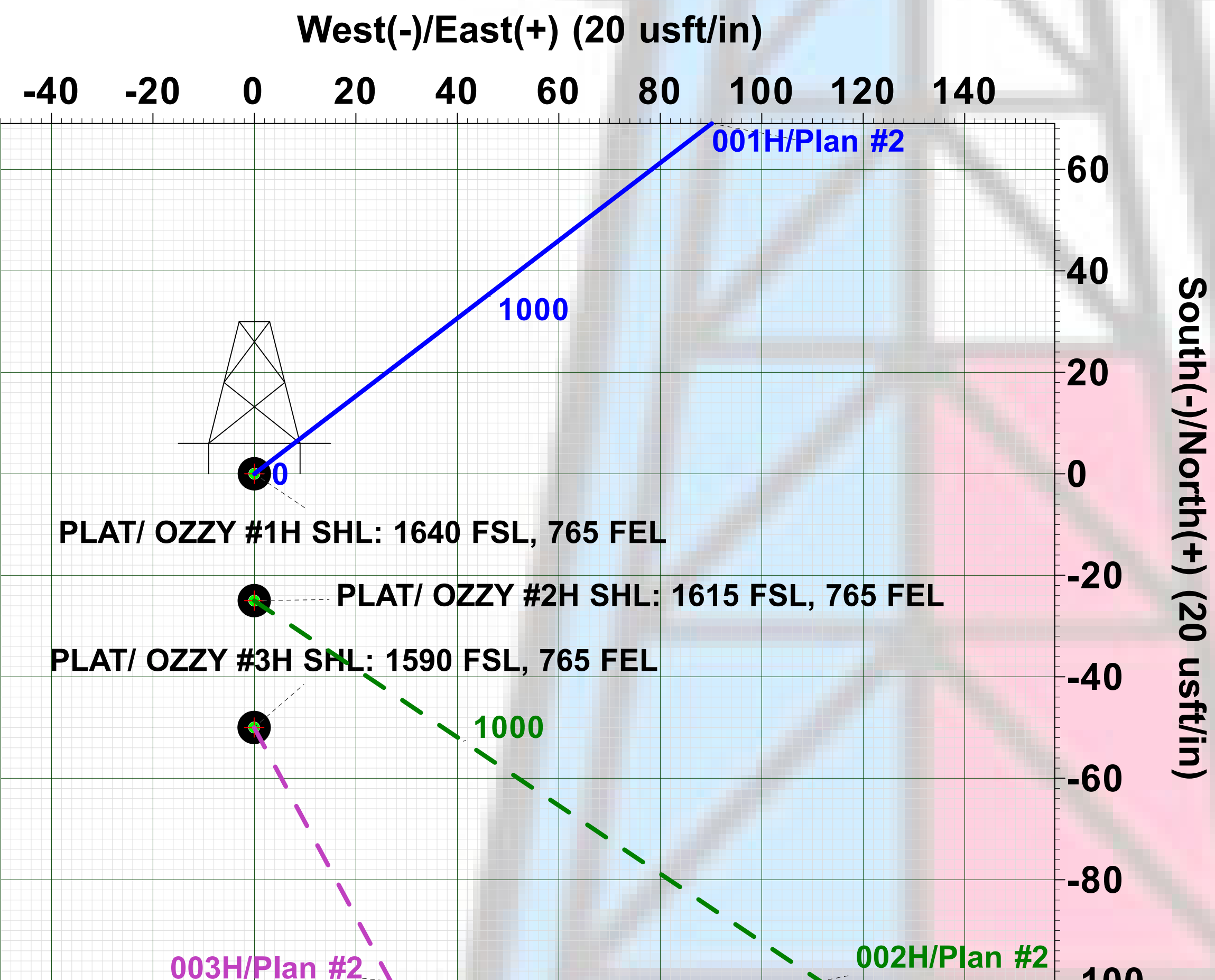
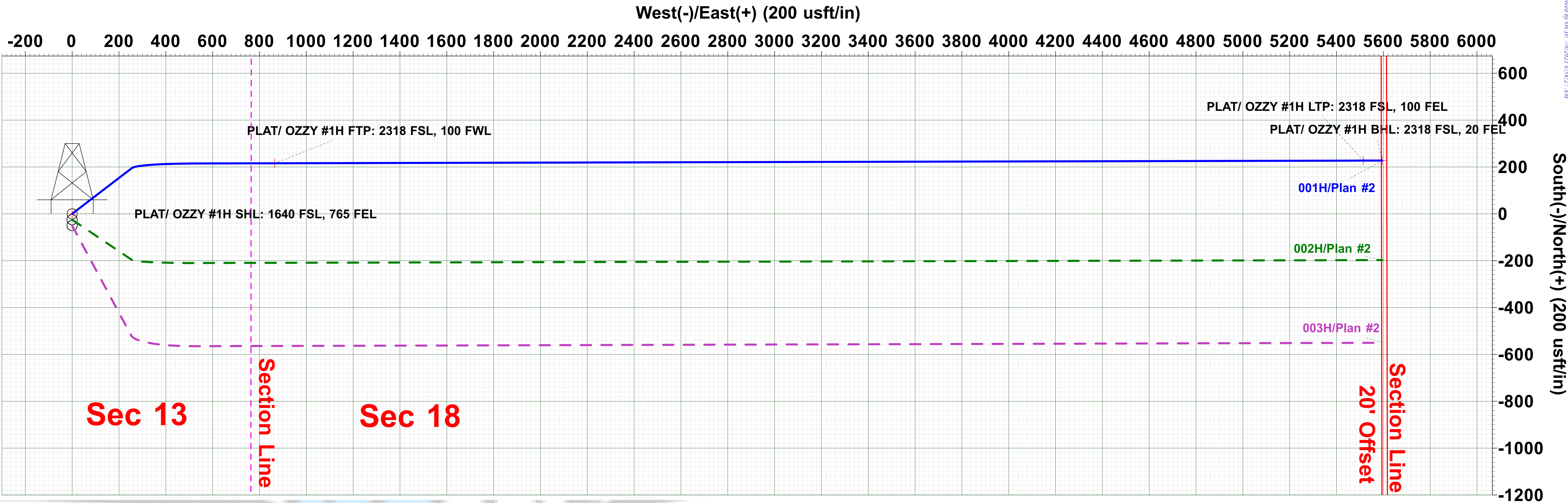
Azimuths to Grid North
True North: -0.11°
Magnetic North: 6.74°

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

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

¹ API Number	² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name OZZY FEDERAL COM 18C	⁶ Well Number 001H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁹ Elevation 3698.9

¹⁰ Surface Location									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	13	17 S	28 E		1640	SOUTH	765	EAST	EDDY

¹¹ 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
I	18	17 S	29 E		2318	SOUTH	20	EAST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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.

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MAY 26, 2021 Date of Survey _____ Signature and Seal of Professional Surveyor _____ Certificate Number: PL 1608 F. JARAMILLO, PLS 12797 SURVEY NO. 8389B



Planning Report



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	EST RKB @ 3715.90usft
Project:	Eddy Co., NM (Nad-83)	MD Reference:	EST RKB @ 3715.90usft
Site:	OZZY FED COM 18C	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Project	Eddy Co., NM (Nad-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	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

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	6/2/2021	6.854	60.372	47,797.87533843

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	89.86

Plan Survey Tool Program	Date	6/3/2021		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	9,156.48	Plan #2 (Wellbore #1)	MWD+IGRF
				OWSG MWD + IGRF or WM

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
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



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	EST RKB @ 3715.90usft
Project:	Eddy Co., NM (Nad-83)	MD Reference:	EST RKB @ 3715.90usft
Site:	OZZY FED COM 18C	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #2		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
PLAT/ OZZY #1H SHL: 1640 FSL, 765 FEL									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	2.00	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



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	EST RKB @ 3715.90usft
Project:	Eddy Co., NM (Nad-83)	MD Reference:	EST RKB @ 3715.90usft
Site:	OZZY FED COM 18C	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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
PLAT/ OZZY #1H FTP: 2318 FSL, 100 FWL									
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



Database:	WBDS_SQL_2	Local Co-ordinate Reference:	Well 001H
Company:	Longfellow Energy	TVD Reference:	EST RKB @ 3715.90usft
Project:	Eddy Co., NM (Nad-83)	MD Reference:	EST RKB @ 3715.90usft
Site:	OZZY FED COM 18C	North Reference:	Grid
Well:	001H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	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	
PLAT/ OZZY #1H LTP: 2318 FSL, 100 FEL										
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	
PLAT/ OZZY #1H BHL: 2318 FSL, 20 FEL										

Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
PLAT/ OZZY #1H SHI - plan hits target center - 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 - plan misses target center by 0.37usft at 9076.49usft MD (4070.00 TVD, 227.31 N, 5514.74 E) - 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 - plan hits target center - 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 - plan hits target center - 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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

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

Survey Tool Program		Date	6/3/2021		
From (usft)	To (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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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
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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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	106.566	-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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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	
5,580.00	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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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	
7,140.00	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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design OZZY FED COM 18C - 002H - Wellbore #1 - Plan #2												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+IGRF												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis			Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
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Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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

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COMPASS 5000.14 Build 85



Anticollision Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Offset Design OZZY FED COM 18C - 003H - 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
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



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	001H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	Wellbore #1	Database:	WBDS_SQL_2
Reference Design:	Plan #2	Offset TVD Reference:	Reference Datum

Reference Depths are relative to EST RKB @ 3715.90usft

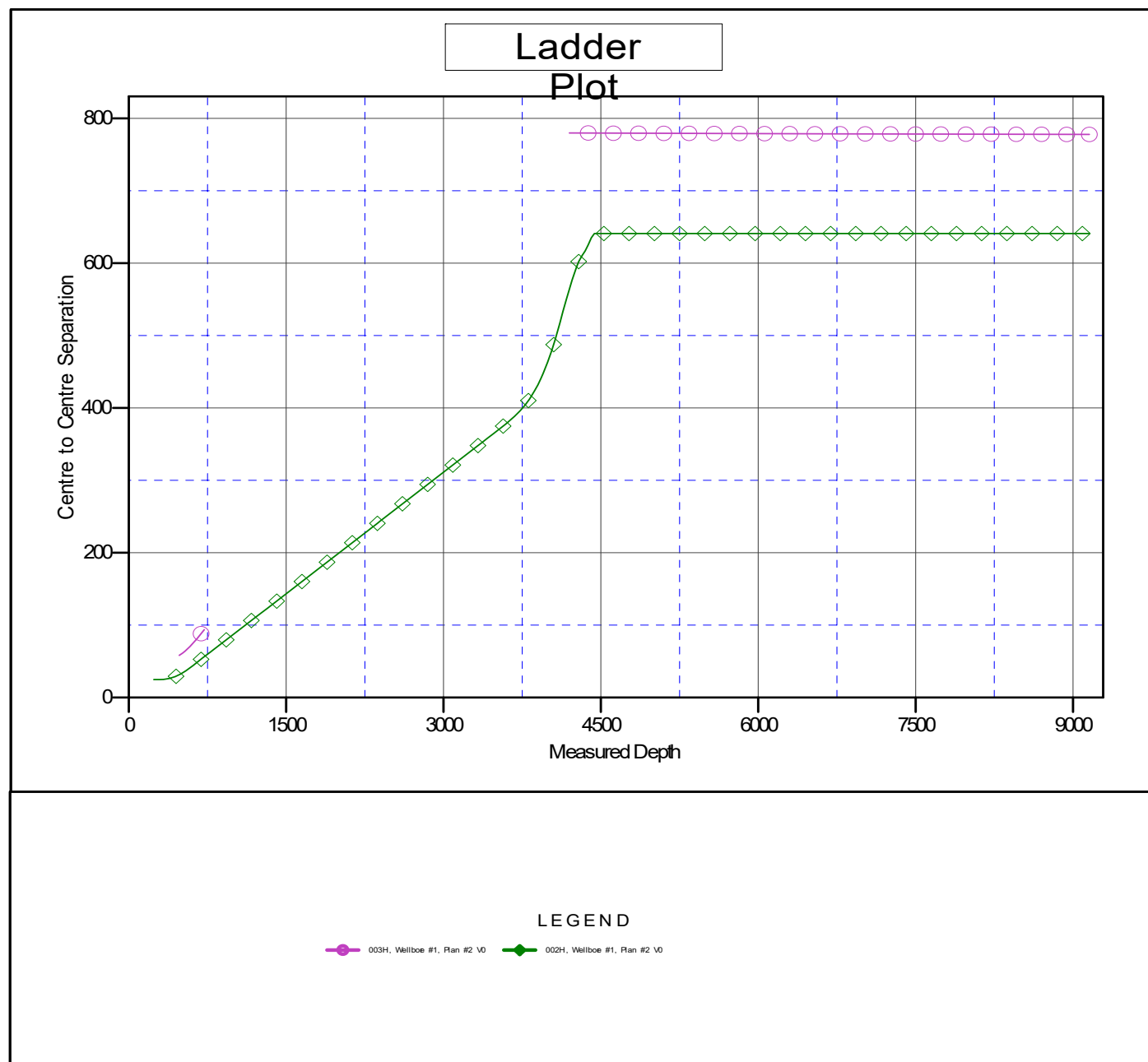
Offset Depths are relative to Offset Datum

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°



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



Anticollision Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	EST RKB @ 3715.90usft
Reference Site:	OZZY FED COM 18C	MD Reference:	EST RKB @ 3715.90usft
Site Error:	0.00 usft	North Reference:	Grid
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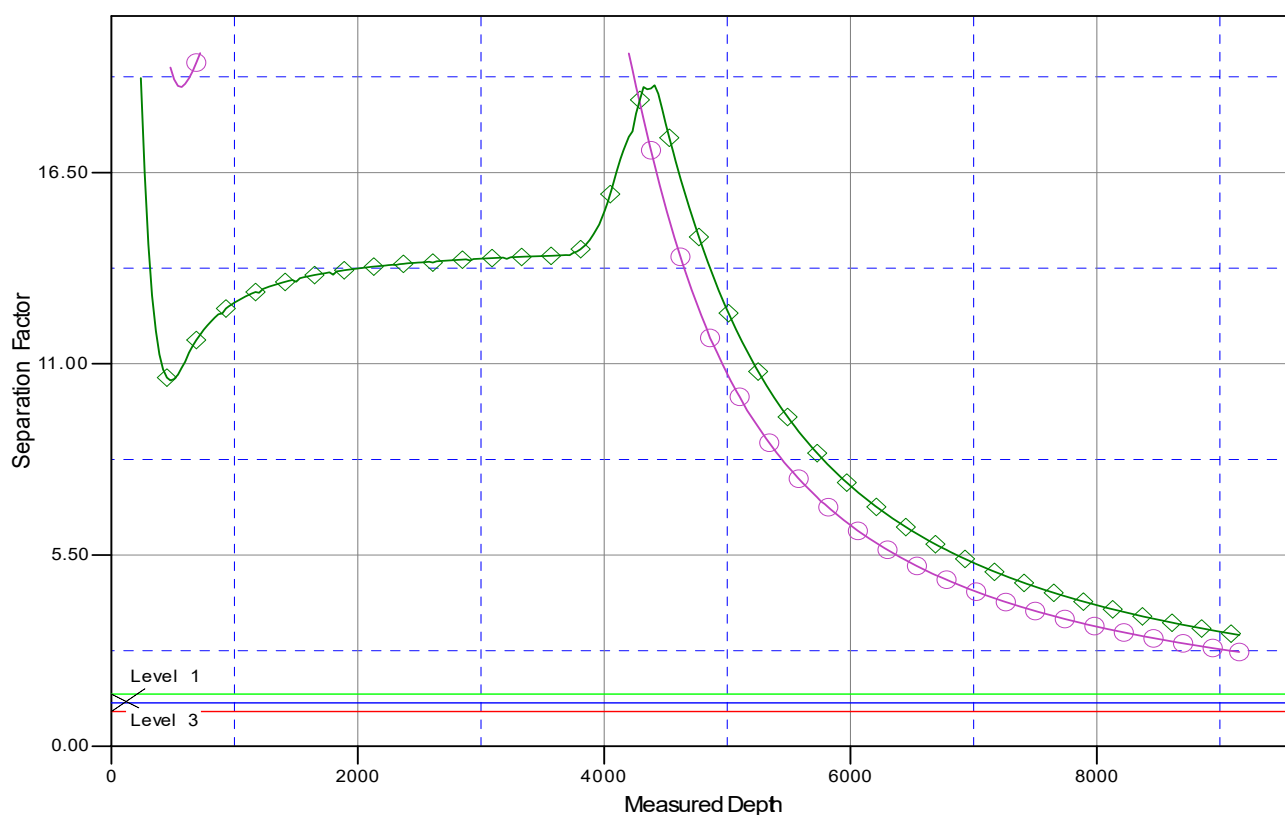
Central Meridian is -104.333334

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 35712

COMMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 35712
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 7/12/2021	7/12/2021

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

CONDITIONS

Action 35712

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 35712
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	7/12/2021