

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116  Online Phone Directory Visit: <a href="https://www.emnrd.nm.gov/ocd/contact-us/">https://www.emnrd.nm.gov/ocd/contact-us/</a>	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>	<b>C-104</b> Revised July 9, 2024  Submit Electronically Via OCD Permitting
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## REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

### Section 1 - Operator and Well Information

Submittal Type: <input checked="" type="checkbox"/> Test Allowable (C-104RT) <input type="checkbox"/> New Well (C-104NW) <input type="checkbox"/> Recomplete (C-104RC) <input type="checkbox"/> Pay Add (C-104RC) <input type="checkbox"/> Amended	
Operator Name: Longfellow Energy, LP	OGRID: 372210
Property Name and Well Number: Marley State Com 31 CD 003H	Property Code: 335193
Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	API Number: 30-015-54605
Pool Name: Red Lake; Glorieta-Yeso, Northeast	Pool Code: 96836

### Section 2 – Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	36	17S	27E		2360 FSL	1208 FEL	32.7897845	-104.2274732	Eddy

### Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Pumping	9-5-2024	4408' - 9503'	3672'-3791'

### Section 4 – Action IDs for Submissions and Order Numbers

List Action IDs for Drilling Sundries	Was an Order required / needed (Y/N), if yes list Order number:
C-104 RT Action ID (if C-104NW):	Communitization Agreement <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. Pending
Surface Casing Action ID: 367653	Unit: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Intermediate 1 Casing Action ID: 367653	Compulsory Pooling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. R-22543
Intermediate 2 Casing Action ID: 367653	Down Hole Commingling: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Production Casing Action ID: 367653	Surface Commingling: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, Order No. Action ID: 364586
All casing was pressure tested in accordance with NMAC <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Non-standard Location: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No, Order No.

### Section 5 - Operator Signature and Certification

<input checked="" type="checkbox"/> I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
<input checked="" type="checkbox"/> I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.	
Name David Cain	
Title Sr Engineering Technologist & Regulatory Specialist	Date 8/27/2024

Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department <b>OIL CONSERVATION DIVISION</b>			
				<input type="checkbox"/> Initial Submittal
				<input type="checkbox"/> Amended Report
			<b>Submittal Type:</b>	<input checked="" type="checkbox"/> As Drilled

**WELL LOCATION INFORMATION**

API Number <b>30-015-54605</b>	Pool Code <b>96836</b>	Pool Name <b>Red Lake; Glorieta-Yeso, Northeast</b>		
Property Code <b>335193</b>	Property Name <b>MARLEY STATE COM 31 CD</b>		Well Number <b>003H</b>	
OGRID No. <b>372210</b>	Operator Name <b>LONGFELLOW ENERGY, LP</b>		Ground Level Elevation <b>3651.6</b>	
Surface Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal			Mineral Owner: <input checked="" type="checkbox"/> State <input type="checkbox"/> Fee <input type="checkbox"/> Tribal <input type="checkbox"/> Federal	

**Surface Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	36	17 S	27 E		2360 SOUTH	1208 EAST	32.7897845°N	104.2274732°W	EDDY

**Bottom Hole Location**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	31	17 S	28 E		1337 SOUTH	24 EAST	32.7872064°N	104.2063252°W	EDDY

Dedicated Acres <b>327.43</b>	Infill or Defining Well <b>Defining</b>	Defining Well API	Overlapping Spacing Unit (Y/N) <b>N</b>	Consolidation Code <b>C</b>
Order Numbers.			Well setbacks are under Common Ownership: <input type="checkbox"/> Yes <input type="checkbox"/> No	

**Kick Off Point (KOP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	36	17 S	27 E		1525 SOUTH	852 EAST	32.7874796°N	104.2263028°W	EDDY


**First Take Point (FTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
	31	17 S	28 E	3	1341 SOUTH	100 WEST	32.7869524°N	104.2232001°W	EDDY

**Last Take Point (LTP)**

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
I	31	17 S	28 E		1335 SOUTH	100 EAST	32.7871980°N	104.2065755°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type <input checked="" type="checkbox"/> Horizontal <input type="checkbox"/> Vertical	Ground Floor Elevation:
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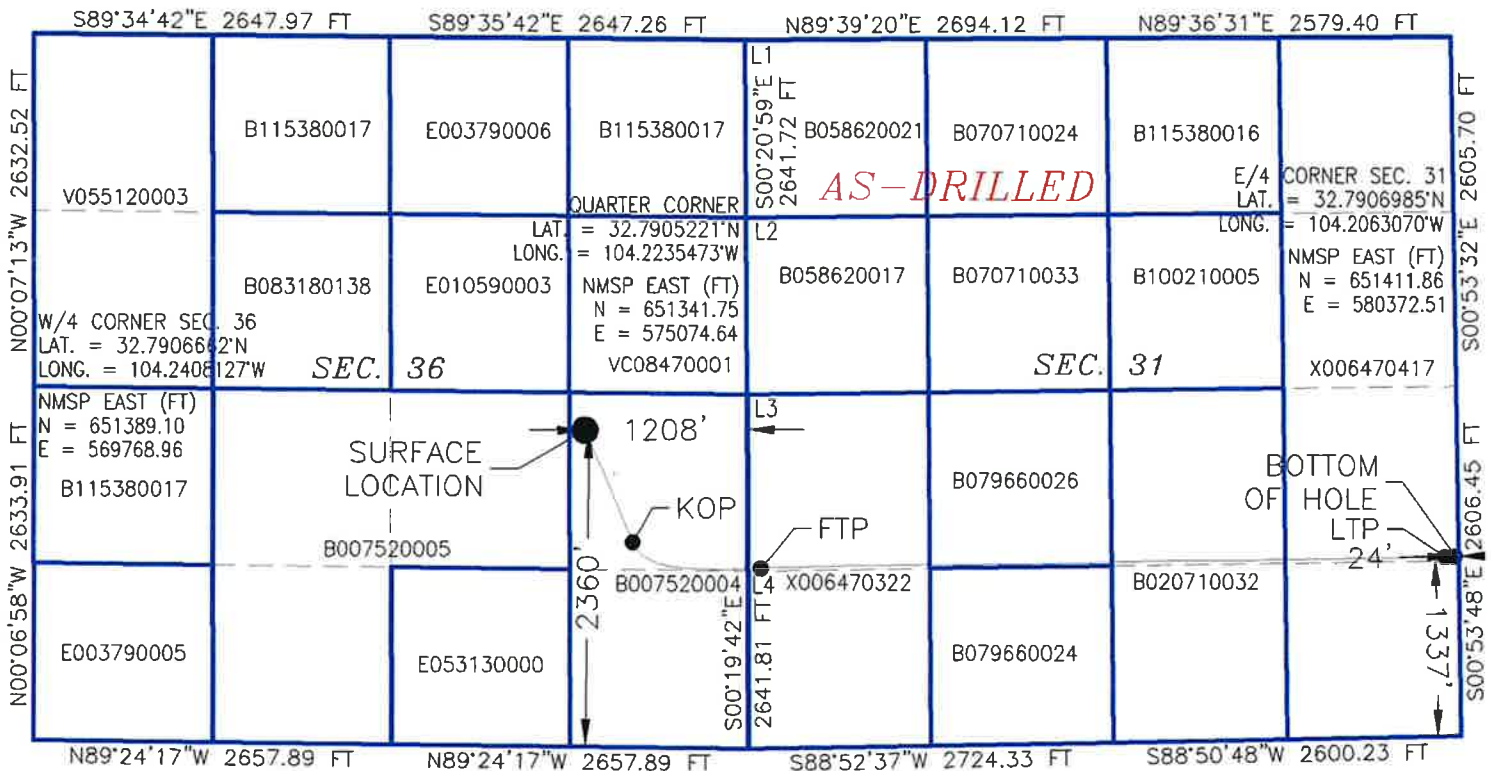
<p><b>OPERATOR CERTIFICATIONS</b></p> <p><i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the 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 a working interest run leased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order here to fore entered by the division.</i></p> <p><i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i></p> <p><u>David Cain</u>                      8-26-2024 Signature                              Date</p> <p><b>David Cain</b> Printed Name</p> <p><b>david.cain@longfellowenergy.com</b> Email Address</p>	<p><b>SURVEYOR CERTIFICATIONS</b></p> <p><i>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.</i></p> <div style="text-align: center;">  </div> <p>_____ Signature and Seal of Professional Surveyor <b>FILIMON F. JARAMILLO</b></p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">Certificate Number <b>PLS 12797</b></td> <td style="width:50%;">Date of Survey <b>AUGUST 26, 2024</b></td> </tr> </table> <p style="text-align: right;">SURVEY NO. 9502B</p>	Certificate Number <b>PLS 12797</b>	Date of Survey <b>AUGUST 26, 2024</b>
Certificate Number <b>PLS 12797</b>	Date of Survey <b>AUGUST 26, 2024</b>		

*Note: 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.*

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

NW CORNER SEC. 36 LAT. = 32.7979021°N LONG. = 104.2408232°W	N/4 CORNER SEC. 36 LAT. = 32.7978419°N LONG. = 104.2322059°W	SECTION CORNER LAT. = 32.7977832°N LONG. = 104.2235908°W	N/4 CORNER SEC. 31 LAT. = 32.7978197°N LONG. = 104.2148231°W	NE CORNER SEC. 31 LAT. = 32.7978599°N LONG. = 104.2064288°W
NMSP EAST (FT) N = 654021.62 E = 569763.43	NMSP EAST (FT) N = 654002.13 E = 572411.33	NMSP EAST (FT) N = 653983.43 E = 575058.52	NMSP EAST (FT) N = 653999.63 E = 577752.59	NMSP EAST (FT) N = 654017.25 E = 580331.94



SW CORNER SEC. 36 LAT. = 32.7834265°N LONG. = 104.2408028°W	S/4 CORNER SEC. 36 SCALED	SECTION CORNER LAT. = 32.7832607°N LONG. = 104.2235070°W	S/4 CORNER SEC. 31 LAT. = 32.7833994°N LONG. = 104.2146438°W	SE CORNER SEC. 31 LAT. = 32.7835350°N LONG. = 104.2061844°W
NMSP EAST (FT) N = 648755.20 E = 569774.30		NMSP EAST (FT) N = 648699.98 E = 575089.78	NMSP EAST (FT) N = 648753.38 E = 577813.59	NMSP EAST (FT) N = 648805.73 E = 580413.30

**MARLEY STATE**  
COM 31 CD 003H  
ELEV. = 3651.6  
LAT. = 32.7897845°N (NAD83)  
LONG. = 104.2274732°W  
NMSP EAST (FT)  
N = 651072.17  
E = 573868.48

**KICK OFF POINT**  
1525' FSL, 852' FEL  
LAT. = 32.7874796°N  
LONG. = 104.2263028°W  
N = 650233.97  
E = 574229.01

**LAST TAKE POINT**  
1335' FSL, 100' FEL  
LAT. = 32.7871980°N  
LONG. = 104.2065755°W  
N = 650138.21  
E = 580291.51

**BOTTOM OF HOLE**  
LAT. = 32.7872064°N  
LONG. = 104.2063252°W  
NMSP EAST (FT)  
N = 650141.39  
E = 580368.43

**FIRST TAKE POINT**  
1341' FSL, 100' FWL  
LAT. = 32.7869524°N  
LONG. = 104.2232001°W  
N = 650043.15  
E = 575182.69



# Longfellow Energy

Eddy Co., NM (Nad-83)  
MARLEY STATE COM 31 CD  
003H

Wellbore #1

Design: Wellbore #1

## Standard Survey Report

06 April, 2024



### Survey Report

<b>Company:</b>	Longfellow Energy	<b>Local Co-ordinate Reference:</b>	Well 003H
<b>Project:</b>	Eddy Co., NM (Nad-83)	<b>TVD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Site:</b>	MARLEY STATE COM 31 CD	<b>MD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Well:</b>	003H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	WBDS_SQL_3

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

<b>Site</b>	MARLEY STATE COM 31 CD				
<b>Site Position:</b>		<b>Northing:</b>	651,132.39 usft	<b>Latitude:</b>	32.789950
<b>From:</b>	Lat/Long	<b>Easting:</b>	573,868.18 usft	<b>Longitude:</b>	-104.227474
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13.200 in		

<b>Well</b>	003H					
<b>Well Position</b>	<b>+N/-S</b>	0.00 usft	<b>Northing:</b>	651,072.17 usft	<b>Latitude:</b>	32.789785
	<b>+E/-W</b>	0.00 usft	<b>Easting:</b>	573,868.48 usft	<b>Longitude:</b>	-104.227473
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	usft	<b>Ground Level:</b>	3,651.60 usft
<b>Grid Convergence:</b>		0.057 °				

<b>Design</b>	Wellbore #1				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	89.03	

<b>Survey Program</b>	<b>Date</b>	04/06/24			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
0.00	9,582.00	Survey #1 (Wellbore #1)	MWD+IFR1+SAG	OWSG MWD + IFR1 + Sag Correction	

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
12.20	0.00	0.00	12.20	0.00	0.00	0.00	0.00	0.00	0.00
143.20	0.94	303.04	143.19	0.59	-0.90	-0.89	0.72	0.72	0.00
198.20	1.22	315.94	198.18	1.25	-1.69	-1.66	0.67	0.51	23.45
293.20	0.44	314.04	293.17	2.23	-2.65	-2.61	0.82	-0.82	-2.00
387.20	1.15	153.14	387.17	1.64	-2.48	-2.46	1.67	0.76	-171.17
481.20	5.02	152.49	481.01	-2.85	-0.16	-0.21	4.12	4.12	-0.69
576.20	5.73	152.27	575.60	-10.73	3.97	3.79	0.75	0.75	-0.23
670.20	7.26	164.08	668.99	-20.60	7.78	7.43	2.15	1.63	12.56
765.20	9.20	160.34	763.01	-33.52	11.98	11.41	2.12	2.04	-3.94
859.20	10.66	155.63	855.60	-48.52	18.10	17.28	1.78	1.55	-5.01
953.20	13.32	154.38	947.54	-66.21	26.37	25.25	2.84	2.83	-1.33
1,048.20	15.84	156.45	1,039.48	-87.96	36.28	34.79	2.71	2.65	2.18
1,142.20	17.54	157.71	1,129.52	-112.83	46.78	44.87	1.85	1.81	1.34
1,240.20	19.20	157.80	1,222.52	-141.42	58.47	56.07	1.69	1.69	0.09



### Survey Report

<b>Company:</b>	Longfellow Energy	<b>Local Co-ordinate Reference:</b>	Well 003H
<b>Project:</b>	Eddy Co., NM (Nad-83)	<b>TVD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Site:</b>	MARLEY STATE COM 31 CD	<b>MD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Well:</b>	003H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	WBDS_SQL_3

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)	
1,384.00	20.48	156.68	1,357.78	-186.41	77.37	74.20	0.93	0.89	-0.78	
1,479.00	23.72	155.64	1,445.79	-219.09	91.83	88.11	3.44	3.41	-1.09	
1,573.00	25.34	155.01	1,531.30	-254.55	108.13	103.80	1.75	1.72	-0.67	
1,668.00	25.98	154.88	1,616.93	-291.82	125.55	120.59	0.68	0.67	-0.14	
1,763.00	26.84	156.10	1,702.02	-330.26	143.07	137.46	1.07	0.91	1.28	
1,857.00	27.30	156.62	1,785.72	-369.45	160.23	153.95	0.55	0.49	0.55	
1,952.00	26.60	157.33	1,870.40	-409.07	177.07	170.12	0.81	-0.74	0.75	
2,047.00	27.15	157.35	1,955.14	-448.70	193.61	185.99	0.58	0.58	0.02	
2,141.00	26.31	157.78	2,039.10	-487.78	209.75	201.46	0.92	-0.89	0.46	
2,235.00	25.35	157.43	2,123.70	-525.65	225.35	216.42	1.03	-1.02	-0.37	
2,330.00	25.66	157.27	2,209.45	-563.40	241.10	231.53	0.33	0.33	-0.17	
2,424.00	26.58	157.14	2,293.85	-601.55	257.14	246.92	0.98	0.98	-0.14	
2,518.00	27.27	156.54	2,377.66	-640.68	273.88	263.00	0.79	0.73	-0.64	
2,611.00	26.47	156.67	2,460.61	-679.26	290.57	279.03	0.86	-0.86	0.14	
2,705.00	26.87	156.47	2,544.61	-717.97	307.35	295.15	0.44	0.43	-0.21	
2,798.00	27.65	156.15	2,627.28	-756.98	324.47	311.60	0.85	0.84	-0.34	
2,891.00	28.46	156.02	2,709.35	-796.96	342.20	328.66	0.87	0.87	-0.14	
2,985.00	29.24	156.03	2,791.69	-838.41	360.63	346.38	0.83	0.83	0.01	
3,079.00	29.15	145.90	2,873.80	-878.37	382.80	367.88	5.25	-0.10	-10.78	
3,173.00	30.29	136.32	2,955.48	-914.49	412.03	396.49	5.19	1.21	-10.19	
3,267.00	31.57	125.99	3,036.17	-946.12	448.34	432.26	5.80	1.36	-10.99	
3,361.00	34.09	116.53	3,115.20	-972.37	491.85	475.32	6.07	2.68	-10.06	
3,455.00	36.98	109.63	3,191.72	-993.64	542.08	525.18	5.25	3.07	-7.34	
3,549.00	41.07	103.68	3,264.75	-1,010.46	598.76	581.56	5.90	4.35	-6.33	
3,643.00	45.43	97.90	3,333.23	-1,022.37	661.98	644.58	6.26	4.64	-6.15	
3,738.00	49.81	94.74	3,397.26	-1,030.03	731.70	714.16	5.22	4.61	-3.33	
3,832.00	55.58	92.84	3,454.21	-1,034.92	806.27	788.64	6.34	6.14	-2.02	
3,927.00	59.96	90.93	3,504.86	-1,037.53	886.57	868.88	4.91	4.61	-2.01	
4,021.00	60.53	90.58	3,551.51	-1,038.60	968.17	950.44	0.69	0.61	-0.37	
4,115.00	61.40	89.83	3,597.14	-1,038.90	1,050.35	1,032.61	1.16	0.93	-0.80	
4,209.00	70.27	87.41	3,635.58	-1,036.77	1,135.99	1,118.28	9.72	9.44	-2.57	
4,304.00	78.57	87.53	3,661.08	-1,032.74	1,227.33	1,209.67	8.74	8.74	0.13	
4,398.00	87.86	87.94	3,672.17	-1,029.05	1,320.50	1,302.89	9.89	9.88	0.44	
4,491.00	88.34	87.63	3,675.25	-1,025.46	1,413.38	1,395.82	0.61	0.52	-0.33	
4,585.00	88.62	89.58	3,677.75	-1,023.17	1,507.31	1,489.78	2.10	0.30	2.07	
4,679.00	87.61	88.68	3,680.84	-1,021.75	1,601.25	1,583.72	1.44	-1.07	-0.96	
4,774.00	88.03	88.11	3,684.45	-1,019.09	1,696.14	1,678.65	0.74	0.44	-0.60	
4,868.00	88.37	87.51	3,687.40	-1,015.50	1,790.03	1,772.58	0.73	0.36	-0.64	
4,962.00	87.39	88.61	3,690.88	-1,012.32	1,883.91	1,866.50	1.57	-1.04	1.17	
5,056.00	87.28	89.16	3,695.25	-1,010.49	1,977.79	1,960.40	0.60	-0.12	0.59	
5,150.00	87.81	89.22	3,699.28	-1,009.16	2,071.69	2,054.31	0.57	0.56	0.06	
5,244.00	88.06	89.32	3,702.67	-1,007.97	2,165.62	2,148.25	0.29	0.27	0.11	
5,338.00	88.40	88.72	3,705.57	-1,006.36	2,259.56	2,242.20	0.73	0.36	-0.64	
5,432.00	88.71	88.36	3,707.94	-1,003.97	2,353.50	2,336.17	0.51	0.33	-0.38	





Survey Report

<b>Company:</b>	Longfellow Energy	<b>Local Co-ordinate Reference:</b>	Well 003H
<b>Project:</b>	Eddy Co., NM (Nad-83)	<b>TVD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Site:</b>	MARLEY STATE COM 31 CD	<b>MD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Well:</b>	003H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	WBDS_SQL_3

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)	
5,526.00	88.73	88.76	3,710.04	-1,001.60	2,447.45	2,430.14	0.43	0.02	0.43	
5,621.00	89.49	88.67	3,711.52	-999.47	2,542.41	2,525.13	0.81	0.80	-0.09	
5,714.00	89.60	89.66	3,712.25	-998.12	2,635.40	2,618.12	1.07	0.12	1.06	
5,808.00	90.00	90.04	3,712.58	-997.87	2,729.40	2,712.11	0.59	0.43	0.40	
5,903.00	89.18	89.85	3,713.26	-997.78	2,824.39	2,807.10	0.89	-0.86	-0.20	
5,996.00	89.83	89.63	3,714.07	-997.36	2,917.39	2,900.09	0.74	0.70	-0.24	
6,091.00	88.12	89.43	3,715.76	-996.58	3,012.37	2,995.06	1.81	-1.80	-0.21	
6,186.00	88.40	89.47	3,718.65	-995.67	3,107.32	3,090.02	0.30	0.29	0.04	
6,280.00	88.82	89.88	3,720.93	-995.14	3,201.29	3,183.98	0.62	0.45	0.44	
6,373.00	88.59	88.84	3,723.03	-994.10	3,294.26	3,276.96	1.15	-0.25	-1.12	
6,467.00	88.87	88.44	3,725.11	-991.87	3,388.21	3,370.93	0.52	0.30	-0.43	
6,557.00	88.87	87.90	3,726.89	-988.99	3,478.14	3,460.90	0.60	0.00	-0.60	
6,648.00	88.34	89.01	3,729.11	-986.54	3,569.08	3,551.87	1.35	-0.58	1.22	
6,739.00	88.65	89.00	3,731.50	-984.96	3,660.04	3,642.84	0.34	0.34	-0.01	
6,830.00	88.87	88.53	3,733.46	-983.00	3,750.99	3,733.82	0.57	0.24	-0.52	
6,919.00	89.66	88.58	3,734.61	-980.76	3,839.96	3,822.81	0.89	0.89	0.06	
7,010.00	88.79	88.49	3,735.84	-978.43	3,930.92	3,913.79	0.96	-0.96	-0.10	
7,099.00	88.76	88.46	3,737.74	-976.06	4,019.87	4,002.77	0.05	-0.03	-0.03	
7,190.00	89.80	88.59	3,738.88	-973.72	4,110.83	4,093.76	1.15	1.14	0.14	
7,281.00	88.45	89.10	3,740.27	-971.89	4,201.80	4,184.74	1.59	-1.48	0.56	
7,375.00	88.09	88.74	3,743.11	-970.11	4,295.74	4,278.70	0.54	-0.38	-0.38	
7,469.00	88.73	88.23	3,745.72	-967.63	4,389.67	4,372.66	0.87	0.68	-0.54	
7,563.00	88.85	89.92	3,747.70	-966.11	4,483.63	4,466.63	1.80	0.13	1.80	
7,658.00	89.29	90.31	3,749.25	-966.30	4,578.62	4,561.60	0.62	0.46	0.41	
7,752.00	88.51	90.52	3,751.05	-966.98	4,672.60	4,655.56	0.86	-0.83	0.22	
7,847.00	88.68	90.40	3,753.38	-967.75	4,767.57	4,750.50	0.22	0.18	-0.13	
7,941.00	88.06	88.63	3,756.05	-966.95	4,861.52	4,844.45	1.99	-0.66	-1.88	
8,035.00	88.96	88.55	3,758.50	-964.64	4,955.46	4,938.42	0.96	0.96	-0.09	
8,130.00	88.54	88.42	3,760.57	-962.13	5,050.40	5,033.39	0.46	-0.44	-0.14	
8,225.00	89.38	88.64	3,762.29	-959.69	5,145.36	5,128.37	0.91	0.88	0.23	
8,319.00	88.48	88.78	3,764.05	-957.58	5,239.31	5,222.35	0.97	-0.96	0.15	
8,413.00	88.09	89.22	3,766.86	-955.94	5,333.26	5,316.31	0.63	-0.41	0.47	
8,508.00	87.95	89.07	3,770.15	-954.52	5,428.19	5,411.25	0.22	-0.15	-0.16	
8,603.00	88.37	88.97	3,773.20	-952.90	5,523.13	5,506.20	0.45	0.44	-0.11	
8,697.00	88.73	88.16	3,775.57	-950.54	5,617.07	5,600.17	0.94	0.38	-0.86	
8,791.00	88.31	88.80	3,778.00	-948.05	5,711.00	5,694.13	0.81	-0.45	0.68	
8,885.00	88.59	88.67	3,780.55	-945.98	5,804.94	5,788.10	0.33	0.30	-0.14	
8,979.00	88.65	89.28	3,782.81	-944.29	5,898.90	5,882.07	0.65	0.06	0.65	
9,073.00	89.16	88.94	3,784.61	-942.83	5,992.87	5,976.05	0.65	0.54	-0.36	
9,167.00	88.79	89.42	3,786.29	-941.49	6,086.85	6,070.04	0.64	-0.39	0.51	
9,261.00	88.90	89.47	3,788.18	-940.58	6,180.82	6,164.01	0.13	0.12	0.05	
9,355.00	89.15	88.78	3,789.78	-939.14	6,274.80	6,258.00	0.78	0.27	-0.73	
9,449.00	89.52	87.87	3,790.87	-936.40	6,368.75	6,351.99	1.04	0.39	-0.97	



Survey Report

<b>Company:</b>	Longfellow Energy	<b>Local Co-ordinate Reference:</b>	Well 003H
<b>Project:</b>	Eddy Co., NM (Nad-83)	<b>TVD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Site:</b>	MARLEY STATE COM 31 CD	<b>MD Reference:</b>	RKB = 20.2' @ 3671.80usft (AKITA 523)
<b>Well:</b>	003H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Wellbore #1	<b>Database:</b>	WBDS_SQL_3

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)	
9,508.00	89.80	87.63	3,791.22	-934.08	6,427.70	6,410.97	0.63	0.47	-0.41	
9,582.00	89.80	87.63	3,791.48	-931.02	6,501.64	6,484.95	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
9,582.00	3,791.48	-931.02	6,501.64	Projection to Bit: 9582.00' MD/ 3791.48' TVD	
9,582.00	3,791.48	-931.02	6,501.64	Final Station Closure Distance= 6567.96 /Direction= 98.15	
9,582.00	3,791.48	-931.02	6,501.64	TD: Latitude= 32.787206 / Longitude= -104.206320	
9,582.00	3,791.48	-931.02	6,501.64	TD: Y= 650141.15 / X= 580370.12	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



**District I**  
 1625 N. French Dr., Hobbs, NM 88240  
 Phone:(575) 393-6161 Fax:(575) 393-0720

**District II**  
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**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**

ACKNOWLEDGMENTS

Action 378477

**ACKNOWLEDGMENTS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 378477
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

**ACKNOWLEDGMENTS**

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

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CONDITIONS

Action 378477

**CONDITIONS**

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 378477
	Action Type: [C-104] Completion Packet - Test Allowable (C-104RT)

**CONDITIONS**

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 12/3/2024.	9/3/2024