

Santa Fe Main Office Phone: (505) 476-3441 Fax: (55) 476-3462 General Information Phone: (505) 629-6116 Online Phone Directory Visit: https://www.emnrd.nm.gov/ocd/contact-us/	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	C-104 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: ☐ Test Allowable (C-104RT) ☒ New Well (C-104NW) ☐ Recomplete (C-104RC) ☐ Pay Add (C-104RC) ☐ Amended	
Operator Name: Longfellow Energy, LP	OGRID: 372210
Property Name and Well Number: Marley State Com 31 CD 004H	Property Code: 335193
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-015-54793
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
P	36	17S	27E		922 FSL	454 FEL	32.7858089	-104.2249981	Eddy

Section 3 – Completion Information

Producing Method	Ready Date	Perforations MD	Perforations TVD
Pumping	9-5-2024	4931' - 10036'	4426'-4558'

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): 378478	Communitization Agreement ☒ Yes ☐ No, Order No. 205022
Surface Casing Action ID: 367658	Unit: ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 367658	Compulsory Pooling: ☒ Yes ☐ No, Order No. R-22543
Intermediate 2 Casing Action ID: 367658	Down Hole Commingling: ☐ Yes ☒ No, Order No.
Production Casing Action ID: 367658	Surface Commingling: ☒ Yes ☐ No, Order No. CTB-1117
All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No	Non-standard Location: ☐ Yes ☒ No ☐ Common ownership Order No.
Liner 1 Action ID:	Non-standard Proration: ☐ Yes ☒ No, Order No.
Casing was installed prior to OCD's Action ID system (Y/N): N	Simultaneous Dedication: ☐ Yes ☒ No, Order No.

Section 5 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well's completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well's completion.	
☒ 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 12/4/2024



December 4, 2024

NMOCD
1220 South St Francis Drive
Santa Fe, NM 87505

Re: Marley State Com 31 CD 004H Tight Hole Status 30-015-54793

Hello,

Pursuant to NMOCD rule 19.15.7.16(C) request is herein made to keep all data and accompanying attachments contained in forms C-105 & C-104NW confidential.

Best Regards,

A handwritten signature in blue ink, appearing to read 'David Cain'.

David Cain
Engineering Technologist & Regulatory Specialist
Longfellow Energy, LP
972-590-9918
david.cain@longfellowenergy.com

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☐ Initial Submittal
				☐ Amended Report
		☒ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-54793	Pool Code 96836	Pool Name Red Lake; Glorieta-Yeso, Northeast
Property Code 335193	Property Name MARLEY STATE COM 31 CD	Well Number 004H
OGRID No. 372210	Operator Name LONGFELLOW ENERGY, LP	Ground Level Elevation 3671.5
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL P	Section 36	Township 17 S	Range 27 E	Lot	Ft. from N/S 922 SOUTH	Ft. from E/W 454 EAST	Latitude 32.7858089°N	Longitude 104.2249981°W	County EDDY
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Bottom Hole Location

UL P	Section 31	Township 17 S	Range 28 E	Lot	Ft. from N/S 982 SOUTH	Ft. from E/W 9 EAST	Latitude 32.7862323°N	Longitude 104.2062592°W	County EDDY
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Dedicated Acres 327.43	Infill or Defining Well	Defining Well API 30-015-54605	Overlapping Spacing Unit (Y/N) N	Consolidation Code C
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL P	Section 36	Township 17 S	Range 27 E	Lot	Ft. from N/S 951 SOUTH	Ft. from E/W 816 EAST	Latitude 32.7858987°N	Longitude 104.2261750°W	County EDDY
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First Take Point (FTP)

UL	Section 31	Township 17 S	Range 28 E	Lot 4	Ft. from N/S 979 SOUTH	Ft. from E/W 100 WEST	Latitude 32.7859570°N	Longitude 104.2231963°W	County EDDY
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Last Take Point (LTP)

UL P	Section 31	Township 17 S	Range 28 E	Lot	Ft. from N/S 982 SOUTH	Ft. from E/W 100 EAST	Latitude 32.7862282°N	Longitude 104.2065584°W	County EDDY
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Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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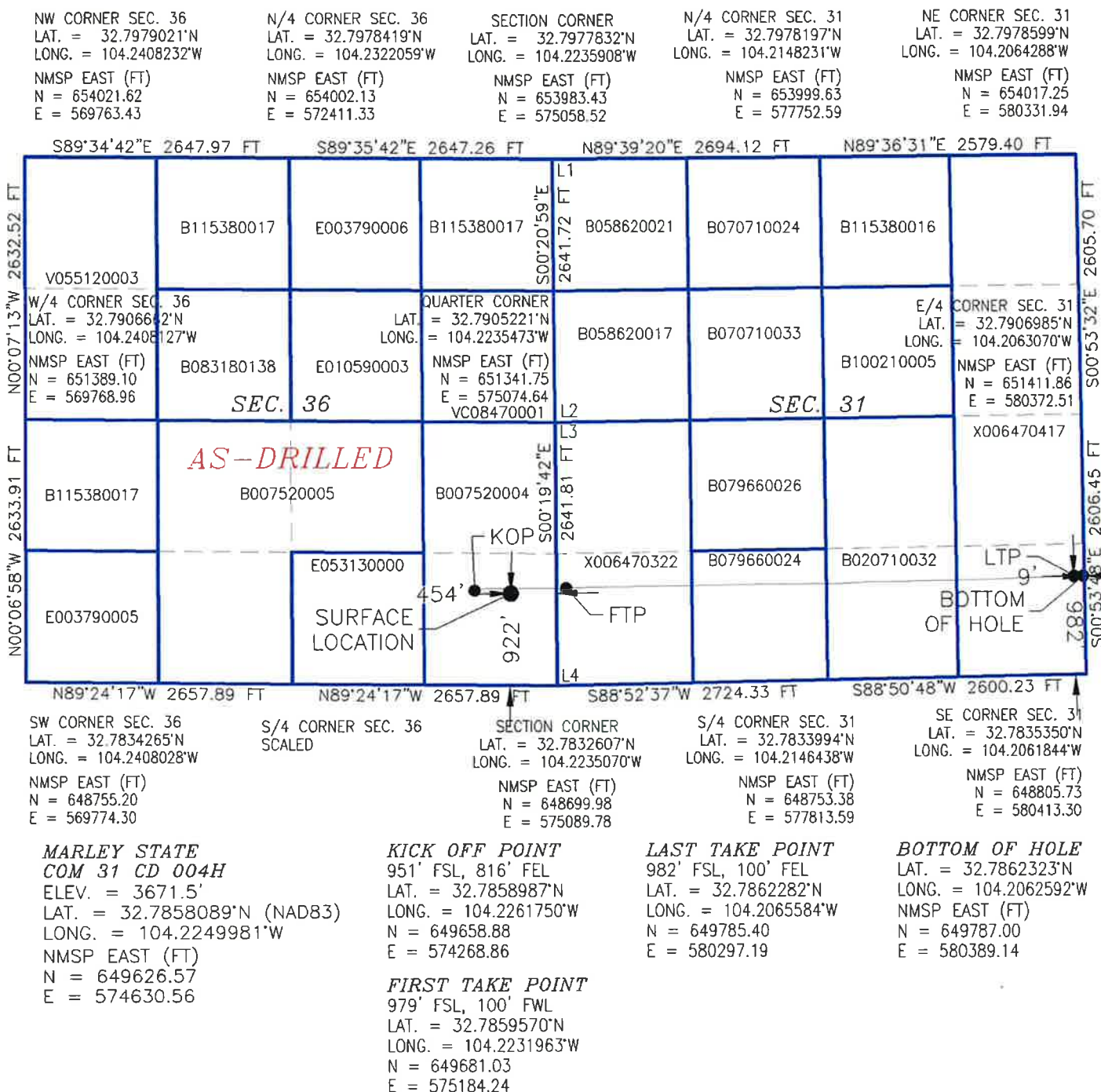
OPERATOR CERTIFICATIONS I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the 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. 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.  Signature Date 8-27-2024 David Cain Printed Name david.cain@longfellowenergy.com Email Address		SURVEYOR CERTIFICATIONS 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.  Signature and Seal of Professional Surveyor FILIMON F. JARAMILLO <table border="1"> <tr> <td>Certificate Number</td> <td>Date of Survey</td> </tr> <tr> <td>PLS 12797</td> <td>AUGUST 26, 2024</td> </tr> </table>		Certificate Number	Date of Survey	PLS 12797	AUGUST 26, 2024
Certificate Number	Date of Survey						
PLS 12797	AUGUST 26, 2024						
		SURVEY NO. 9503B					

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.

ACREAGE DEDICATION PLATS

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.





Longfellow Energy

Eddy Co., NM (Nad-83)
MARLEY STATE COM 31 CD
004H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

14 May, 2024



Survey Report

Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Site:	MARLEY STATE COM 31 CD	MD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Well:	004H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_3

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

Well	004H					
Well Position	+N/-S	0.00 usft	Northing:	649,626.57 usft	Latitude:	32.785809
	+E/-W	0.00 usft	Easting:	574,630.56 usft	Longitude:	-104.224998
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,671.50 usft
Grid Convergence:		0.059 °				

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	88.94	

Survey Program	Date	05/14/24			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
159.00	10,129.00	Survey #1 (Wellbore #1)	MWD+IFR1+SAG+FDIR	OWSG MWD + IFR1 + Sag + FDIR Correction	

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
159.00	0.49	189.16	159.00	-0.67	-0.11	-0.12	0.31	0.31	0.00
220.00	0.49	199.61	220.00	-1.17	-0.24	-0.26	0.15	0.00	17.13
309.00	1.65	241.49	308.98	-2.14	-1.49	-1.53	1.49	1.30	47.06
400.00	2.69	250.97	399.91	-3.47	-4.66	-4.72	1.21	1.14	10.42
490.00	3.68	254.45	489.77	-4.93	-9.44	-9.53	1.12	1.10	3.87
580.00	6.02	258.97	579.45	-6.61	-16.86	-16.98	2.63	2.60	5.02
670.00	7.89	268.63	668.78	-7.66	-27.67	-27.80	2.44	2.08	10.73
762.00	7.60	280.34	759.95	-6.72	-39.96	-40.08	1.74	-0.32	12.73
852.00	6.90	286.94	849.23	-4.07	-50.99	-51.06	1.21	-0.78	7.33
942.00	6.41	282.49	938.62	-1.41	-61.07	-61.08	0.79	-0.54	-4.94
1,036.00	6.22	283.58	1,032.05	0.92	-71.14	-71.11	0.24	-0.20	1.16
1,131.00	6.26	275.73	1,126.49	2.64	-81.30	-81.23	0.90	0.04	-8.26
1,225.00	7.18	272.00	1,219.85	3.36	-92.27	-92.19	1.08	0.98	-3.97
1,244.00	7.34	272.18	1,238.69	3.45	-94.67	-94.59	0.85	0.84	0.95



Survey Report

Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Site:	MARLEY STATE COM 31 CD	MD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Well:	004H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)	
1,389.00	6.93	272.64	1,382.57	4.20	-112.66	-112.56	0.29	-0.28	0.32	
1,482.00	7.68	276.31	1,474.82	5.15	-124.44	-124.33	0.95	0.81	3.95	
1,577.00	7.73	276.91	1,568.96	6.61	-137.09	-136.95	0.10	0.05	0.63	
1,672.00	7.27	278.21	1,663.14	8.24	-149.39	-149.21	0.52	-0.48	1.37	
1,767.00	7.79	276.57	1,757.33	9.83	-161.73	-161.52	0.59	0.55	-1.73	
1,861.00	8.10	274.35	1,850.42	11.07	-174.66	-174.43	0.46	0.33	-2.36	
1,956.00	7.66	273.62	1,944.53	11.97	-187.66	-187.40	0.47	-0.46	-0.77	
2,050.00	7.44	273.58	2,037.71	12.75	-199.98	-199.71	0.23	-0.23	-0.04	
2,144.00	7.30	273.45	2,130.93	13.49	-212.02	-211.73	0.15	-0.15	-0.14	
2,239.00	7.48	273.26	2,225.15	14.20	-224.22	-223.91	0.19	0.19	-0.20	
2,333.00	7.82	277.10	2,318.31	15.34	-236.67	-236.35	0.65	0.36	4.09	
2,427.00	7.92	278.34	2,411.42	17.07	-249.42	-249.07	0.21	0.11	1.32	
2,521.00	7.75	277.33	2,504.55	18.82	-262.12	-261.72	0.23	-0.18	-1.07	
2,615.00	7.75	276.83	2,597.69	20.38	-274.70	-274.27	0.07	0.00	-0.53	
2,709.00	7.73	276.45	2,690.83	21.85	-287.27	-286.82	0.06	-0.02	-0.40	
2,803.00	6.73	277.76	2,784.08	23.30	-299.01	-298.53	1.08	-1.06	1.39	
2,897.00	6.65	278.46	2,877.44	24.84	-309.85	-309.34	0.12	-0.09	0.74	
2,991.00	6.73	277.69	2,970.80	26.38	-320.69	-320.15	0.13	0.09	-0.82	
3,086.00	6.66	277.29	3,065.16	27.83	-331.67	-331.10	0.09	-0.07	-0.42	
3,180.00	6.71	276.71	3,158.52	29.16	-342.54	-341.94	0.09	0.05	-0.62	
3,274.00	6.86	275.75	3,251.86	30.36	-353.58	-352.95	0.20	0.16	-1.02	
3,368.00	3.63	297.86	3,345.46	32.32	-361.79	-361.14	3.99	-3.44	23.52	
3,462.00	1.95	42.46	3,439.39	34.89	-363.35	-362.64	4.82	-1.79	111.28	
3,557.00	7.05	77.12	3,534.08	37.38	-356.57	-355.81	5.85	5.37	36.48	
3,650.00	12.16	76.70	3,625.74	40.91	-341.46	-340.65	5.50	5.49	-0.45	
3,743.00	17.89	83.21	3,715.53	44.86	-317.72	-316.84	6.41	6.16	7.00	
3,838.00	24.14	83.94	3,804.17	48.64	-283.88	-282.94	6.58	6.58	0.77	
3,932.00	30.10	88.77	3,887.81	51.17	-241.16	-240.17	6.75	6.34	5.14	
4,026.00	36.53	90.32	3,966.32	51.52	-189.56	-188.58	6.90	6.84	1.65	
4,121.00	42.28	88.82	4,039.69	52.02	-129.29	-128.30	6.13	6.05	-1.58	
4,216.00	47.22	90.31	4,107.14	52.49	-62.43	-61.45	5.32	5.20	1.57	
4,310.00	52.55	90.21	4,167.69	52.17	9.43	10.39	5.67	5.67	-0.11	
4,404.00	57.12	90.32	4,221.81	51.81	86.25	87.19	4.86	4.86	0.12	
4,499.00	59.27	90.75	4,271.88	51.06	166.98	167.89	2.30	2.26	0.45	
4,593.00	59.23	89.93	4,319.94	50.58	247.76	248.65	0.75	-0.04	-0.87	
4,688.00	64.57	88.89	4,364.67	51.46	331.52	332.42	5.70	5.62	-1.09	
4,782.00	73.83	89.22	4,398.01	52.90	419.29	420.20	9.86	9.85	0.35	
4,877.00	81.49	89.64	4,418.30	53.81	512.02	512.93	8.07	8.06	0.44	
4,971.00	88.39	88.56	4,426.59	55.29	605.59	606.50	7.43	7.34	-1.15	
5,066.00	88.83	88.31	4,428.89	57.88	700.52	701.47	0.53	0.46	-0.26	
5,160.00	89.34	87.98	4,430.39	60.93	794.46	795.45	0.65	0.54	-0.35	
5,255.00	89.28	89.08	4,431.54	63.36	889.42	890.44	1.16	-0.06	1.16	
5,349.00	89.48	88.87	4,432.55	65.04	983.40	984.44	0.31	0.21	-0.22	
5,443.00	88.50	89.27	4,434.21	66.57	1,077.37	1,078.42	1.13	-1.04	0.43	



Survey Report

Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Site:	MARLEY STATE COM 31 CD	MD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Well:	004H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
5,538.00	88.41	88.87	4,436.77	68.11	1,172.32	1,173.38	0.43	-0.09	-0.42
5,631.00	88.61	88.24	4,439.19	70.46	1,265.26	1,266.35	0.71	0.22	-0.68
5,725.00	88.72	89.52	4,441.38	72.29	1,359.22	1,360.32	1.37	0.12	1.36
5,819.00	89.39	89.48	4,442.93	73.11	1,453.20	1,454.30	0.71	0.71	-0.04
5,913.00	88.92	89.71	4,444.32	73.78	1,547.19	1,548.29	0.56	-0.50	0.24
6,006.00	87.83	89.47	4,446.95	74.44	1,640.15	1,641.24	1.20	-1.17	-0.26
6,100.00	87.99	88.81	4,450.38	75.85	1,734.07	1,735.18	0.72	0.17	-0.70
6,194.00	88.69	88.49	4,453.10	78.07	1,828.01	1,829.14	0.82	0.74	-0.34
6,288.00	88.50	89.36	4,455.41	79.83	1,921.96	1,923.11	0.95	-0.20	0.93
6,382.00	88.69	89.59	4,457.71	80.69	2,015.93	2,017.08	0.32	0.20	0.24
6,476.00	87.26	89.01	4,461.04	81.84	2,109.86	2,111.01	1.64	-1.52	-0.62
6,570.00	87.48	89.00	4,465.35	83.47	2,203.75	2,204.91	0.23	0.23	-0.01
6,664.00	87.90	89.06	4,469.14	85.06	2,297.66	2,298.84	0.45	0.45	0.06
6,758.00	88.49	89.03	4,472.10	86.62	2,391.60	2,392.79	0.63	0.63	-0.03
6,849.00	89.16	88.90	4,473.96	88.27	2,482.56	2,483.77	0.75	0.74	-0.14
6,939.00	88.15	89.35	4,476.08	89.64	2,572.53	2,573.74	1.23	-1.12	0.50
7,029.00	87.99	89.60	4,479.11	90.47	2,662.47	2,663.69	0.33	-0.18	0.28
7,120.00	88.27	89.42	4,482.08	91.24	2,753.42	2,754.64	0.37	0.31	-0.20
7,210.00	89.11	90.10	4,484.13	91.62	2,843.39	2,844.60	1.20	0.93	0.76
7,300.00	87.51	89.63	4,486.79	91.83	2,933.35	2,934.55	1.85	-1.78	-0.52
7,390.00	87.03	88.88	4,491.08	93.00	3,023.24	3,024.44	0.99	-0.53	-0.83
7,482.00	87.40	90.05	4,495.55	93.86	3,115.13	3,116.33	1.33	0.40	1.27
7,572.00	88.16	89.71	4,499.03	94.05	3,205.06	3,206.25	0.92	0.84	-0.38
7,662.00	88.94	87.93	4,501.31	95.90	3,295.00	3,296.21	2.16	0.87	-1.98
7,756.00	90.06	86.48	4,502.13	100.48	3,388.89	3,390.16	1.95	1.19	-1.54
7,849.00	89.95	87.50	4,502.12	105.37	3,481.76	3,483.11	1.10	-0.12	1.10
7,943.00	89.28	89.22	4,502.75	108.06	3,575.71	3,577.10	1.96	-0.71	1.83
8,037.00	88.60	89.32	4,504.49	109.25	3,669.69	3,671.08	0.73	-0.72	0.11
8,131.00	88.91	89.21	4,506.54	110.46	3,763.66	3,765.06	0.35	0.33	-0.12
8,226.00	88.01	88.78	4,509.09	112.12	3,858.61	3,860.02	1.05	-0.95	-0.45
8,320.00	88.18	88.59	4,512.21	114.28	3,952.53	3,953.97	0.27	0.18	-0.20
8,349.00	88.39	88.76	4,513.08	114.95	3,981.51	3,982.95	0.93	0.72	0.59
8,443.00	88.92	88.54	4,515.29	117.17	4,075.46	4,076.93	0.61	0.56	-0.23
8,536.00	87.68	88.90	4,518.05	119.24	4,168.39	4,169.88	1.39	-1.33	0.39
8,631.00	88.02	89.31	4,521.61	120.72	4,263.31	4,264.82	0.56	0.36	0.43
8,725.00	89.06	89.82	4,524.01	121.44	4,357.28	4,358.78	1.23	1.11	0.54
8,819.00	88.38	88.95	4,526.11	122.45	4,451.25	4,452.75	1.17	-0.72	-0.93
8,914.00	88.55	88.40	4,528.65	124.64	4,546.19	4,547.71	0.61	0.18	-0.58
9,008.00	90.74	88.83	4,529.23	126.91	4,640.15	4,641.71	2.37	2.33	0.46
9,101.00	88.55	87.98	4,529.81	129.50	4,733.11	4,734.69	2.53	-2.35	-0.91
9,195.00	87.83	87.98	4,532.78	132.81	4,827.00	4,828.63	0.77	-0.77	0.00
9,289.00	87.54	87.48	4,536.57	136.53	4,920.85	4,922.53	0.61	-0.31	-0.53
9,384.00	87.94	87.11	4,540.32	141.01	5,015.67	5,017.42	0.57	0.42	-0.39



Survey Report

Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Site:	MARLEY STATE COM 31 CD	MD Reference:	RKB = 20.2' @ 3691.70usft (AKITA 523)
Well:	004H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	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)
9,477.00	88.64	87.50	4,543.10	145.39	5,108.53	5,110.34	0.86	0.75	0.42
9,569.00	87.49	88.37	4,546.20	148.70	5,200.41	5,202.27	1.57	-1.25	0.95
9,664.00	87.54	88.81	4,550.32	151.03	5,295.29	5,297.18	0.47	0.05	0.46
9,757.00	88.16	88.68	4,553.81	153.07	5,388.20	5,390.11	0.68	0.67	-0.14
9,851.00	88.78	88.81	4,556.32	155.13	5,482.15	5,484.08	0.67	0.66	0.14
9,945.00	89.67	88.81	4,557.59	157.08	5,576.12	5,578.07	0.95	0.95	0.00
10,039.00	90.23	88.96	4,557.67	158.91	5,670.10	5,672.07	0.62	0.60	0.16
10,055.00	90.37	89.01	4,557.59	159.19	5,686.10	5,688.07	0.93	0.87	0.31
10,129.00	90.37	89.01	4,557.11	160.47	5,760.08	5,762.07	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,129.00	4,557.11	160.47	5,760.08	Projection to Bit: 10129.00' MD/ 4557.11' TVD
10,129.00	4,557.11	160.47	5,760.08	Final Station Closure Distance= 5762.32 /Direction= 88.40
10,129.00	4,557.11	160.47	5,760.08	TD: Latitude= 32.786232 / Longitude= -104.206254
10,129.00	4,557.11	160.47	5,760.08	TD: Y= 649787.04 / X= 580390.64

Checked By: _____ Approved By: _____ Date: _____

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Section 1 - Operator and Well Information

Submittal Type: ☒ New Well ☐ Workover ☐ Deepening ☐ Plugback ☐ Different Reservoir ☐ C-144 Closure Attachment ☐ Other	
Operator Name: Longfellow Energy, LP	OGRID: 372210
Property Name and Well Number: Marley State Com 31 CD 004H	Property Code: 335193
Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal	API Number: 30-015-54793
Pool Name: Red Lake; Glorieta-Yeso, Northeast	Pool Code: 96836

Section 2 – Well Location

	Ul or lot no.	Section	Township	Range	Lot Id	Feet from	N/S Line	Feet from	E/W Line	County
SHL:	P	36	17S	27E		922	South	454	East	Eddy
BHL	P	31	17S	28E		982	South	9	East	Eddy

Section 3 – Completion Information

Date T.D. Reached 5/14/2024	Total Measured Depth of Well 10129'	Acid Volume (bbls) 76400	☒ Directional Survey Submitted ☐ Deviation Survey Submitted
Date Rig Released 5/15/2024	Plug-Back Measured Depth 10085'	Completion Fluid Used (bbls) 379759	Were Logs Ran (Y/N) Y
Completion Date 8/30/2024	Perforations (MD and TVD) 4931'-10036' M 4426'-4558' V	Completion Proppant Used (lbs) 6042080	List Type of Logs Ran if applicable: Mudlog and GR

Section 4 – Action IDs for Submissions and Order Numbers

Surface Casing Action ID: 367658	UIC Permit/Order (UIC wells only) ☐ Yes ☒ No, Order No.
Intermediate 1 Casing Action ID: 367658	NOI Recomplete Action ID (if applicable):
Intermediate 2 Casing Action ID: 367658	NOI Plugback Action ID (if applicable):
Production Casing Action ID: 367658	Cement Squeeze Action ID (if applicable):
Tubing Action ID: 373793	All casing was pressure tested in accordance with NMAC ☒ Yes ☐ No
Liner 1 Action ID:	Casing was installed prior to Action ID system (Y/N): N

Section 5 – Test Data

Date First Production 10/27/2024	Production Method Pumping	Well Status Active	Gas – Oil Ratio 8750
Date of Test 12/1/2024	Choke Size 64/64	Flowing Tubing Pressure 308	Casing Pressure 65
24 hr Oil (bbls) 4	24 hr Gas (MCF) 35	24 hr Water (bbls) 2446	Oil Gravity - API 40.8
Disposition of Gas: Flared			

Section 6 – Pits

☐ A temporary pit was used at the well. If so, attach a plat with the location of the temporary pit.
☒ A Closed Loop System was used.
☐ If an on-site burial was used at the well, report the exact location of the on-site burial:
LAT: _____ LONG: _____

Section 7 - Operator Signature and Certification

☒ I hereby certify that the required Water Use Report has been, or will be, submitted for this well’s completion.	
☒ I hereby certify that the required Fracfocus disclosure has been, or will be, submitted for this well’s completion.	
☒ 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 12/9/2024

South Formations				North Formations			
Formation/Zone	MD	TVD	W/O/G	Formation/Zone	MD	TVD	W/O/G
T. Anhy	200	200		T. San Jose			
T. Salt	260	260		T. Nacimiento			
B. Salt	300	300		T. Ojo Alamo			
T. Yates	310	310		T. Kirtland			
T. 7 Rivers	520	520		T. Fruitland			
T. Queen	1080	1080	O/G	T. Pictured Cliffs			
T. Grayburg	1564	1556	O/G	T. Lewis Shale			
T. San Andres	1927	1916	O/G	T. Chacra			
T. Glorieta	3388	3365	O/G	T. Cliff House			
T. Yeso	3442	3419	O/G	T. Menefee			
T. Paddock	3442	3419	O/G	T. Point Lookout			
T. Blinebry	4140	4059	O/G	T. Mancos			
T.Tubb				T. Gallup			
T. Drinkard				T. Greenhorn			
T. Abo				T. Graneros			
T. Wolfcamp				T. Dakota			
T. Penn				T. Morrison			
T. Cisco				T. Bluff			
T. Canyon				T.Todilto			
T. Strawn				T. Entrada			
T. Atoka				T. Wingate			
T. Morrow				T. Chinle			
T. Barnett Shale				T. Permian			
T. Miss				T. Penn A"			
T. Woodford Shale				T. Penn. "B"			
T. Devonian				T. Penn. "C"			
T. Silurian				T. Penn. "D"			
T. Fusselman				T. Leadville			
T. Montoya				T. Madison			
T. Simpson				T. Elbert			
T. McKee				T. McCracken			
T. Waddell				T. Ignacio Otzte			
T. Connel				T. Granite			
T. Ellenburger				T. Hermosa			
T. Gr. Wash				T. De Chelly			
T. Delaware Sand				T. Pinkerton			
T. Lamar Lime							
T. Bell Canyon							
T. Cherry Canyon							
T. Brushy Canyon							
T. Bone Springs							
T. 1st BS Sand							
T. 2nd BS Carbonate							
T. 2nd BS Sand							
T. 3rd BS Carbonate							
T. 3rd BS Sand							

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

ACKNOWLEDGMENTS

Action 410856

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 410856
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.
☒	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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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 410856

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 410856
	Action Type: [C-104] Completion Packet - Tight Hole/Confidential (C-104CT)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	Please submit Well Log (s) as documented on the C-105 and submit as [UF-WL] EP Well Log Submission.	12/12/2024