

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Longfellow Energy LP 8115 Preston Road, Suite 800 Dallas, TX 75225		² OGRID Number 372210
		³ Reason for Filing Code/ Effective Date NW 2/2024
⁴ API Number 30 – 015-53814	⁵ Pool Name Red Lake; Glorieta – Yeso, Northeast	⁶ Pool Code 96836
⁷ Property Code 334079	⁸ Property Name Marley State Com 31 AB	⁹ Well Number 005H

II. ¹⁰ Surface Location

Ul or lot no. A	Section 36	Township 17S	Range 27E	Lot Idn	Feet from the 1125	North/South Line North	Feet from the 1210	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. H	Section 31	Township 17S	Range 28E	Lot Idn	Feet from the 2078	North/South line North	Feet from the 27	East/West line East	County Eddy
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 10/27/2023	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
33479	Holly Frontier Refining and Marketing LLC 10 Desta Drive, Suite 350 W Midland, TX 79705	Oil
36785	DCP Operating Company LP	Gas

IV. Well Completion Data

²¹ Spud Date 6/1/2023	²² Ready Date 11/1/2023	²³ TD 3669'V/9414'M	²⁴ PBTB 3669'V/9365'M	²⁵ Perforations 9,332'-4,244'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8"	1315'	650		
8-3/4"	7"	4088'	1495		
8-3/4"	5-1/2"	9407'	1495		
	2-7/8	3801'			

V. Well Test Data

³¹ Date New Oil 11/17/2023	³² Gas Delivery Date 11/1/2023	³³ Test Date 2/22/2024	³⁴ Test Length 24 hours	³⁵ Tbg. Pressure 289	³⁶ Csg. Pressure 110
³⁷ Choke Size NA	³⁸ Oil 184	³⁹ Water 2547	⁴⁰ Gas 274		⁴¹ Test Method pumping

⁴² 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. Signature: 	OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ
Printed name: David Cain	Title: PETROLEUM SPECIALIST
Title: Regulatory Analyst	Approval Date: 2/26/2024
E-mail Address: David.cain@longfellowenergy.com	
Date: 2/23/2024	Phone: (972) 590-9918

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 30-015-53814	² Pool Code 96836	³ Pool Name RED LAKE; GLORIEYA-YESO, NORTHEAST
⁴ Property Code 334079	⁵ Property Name MARLEY STATE COM 31 AB	
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁶ Well Number 005H ⁹ Elevation 3625.7

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
A	36	17 S	27 E		1125	NORTH	1210	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
H	31	17 S	28 E		2078	NORTH	27	EAST	EDDY
¹² Dedicated Acres 327.09		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.

MARLEY STATE COM 31 AB 005H ELEV. = 3625.7' LAT. = 32.7947183°N (NAD83) LONG. = 104.2275091°W NMSP EAST (FT) N = 652867.13 E = 573855.64		KICK OFF POINT 1898' FNL, 834' FEL LAT. = 32.7925846°N LONG. = 104.2262730°W		FIRST TAKE POINT 2057' FNL, 100' FWL LAT. = 32.7921330°N LONG. = 104.2232306°W		BOTTOM OF HOLE LAT. = 32.7921492°N LONG. = 104.2064205°W NMSP EAST (FT) N = 651939.58 E = 580337.00	
NW CORNER SEC. 36 LAT. = 32.7979021°N LONG. = 104.2408232°W NMSP EAST (FT) N = 654021.62 E = 569763.43		N/4 CORNER SEC. 36 LAT. = 32.7978419°N LONG. = 104.2322059°W NMSP EAST (FT) N = 654002.13 E = 572411.33		SECTION CORNER LAT. = 32.7977832°N LONG. = 104.2235908°W NMSP EAST (FT) N = 653983.43 E = 575058.52		N/4 CORNER SEC. 31 LAT. = 32.7978197°N LONG. = 104.2148231°W NMSP EAST (FT) N = 653999.63 E = 577752.59	
NE CORNER SEC. 31 LAT. = 32.7978599°N LONG. = 104.2064288°W NMSP EAST (FT) N = 654017.25 E = 580331.94							

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
David Cain	10/20/2023
Printed Name	
david.cain@longfellowenergy.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.	
JULY 27, 2023	
Date of Survey	
Signature and Seal of Professional Surveyor: Certificate Number: 12797 PROFESSIONAL SURVEYOR NO. 8810H	

Intent ☐ As Drilled ☒API #
30-015-53814

Operator Name: LONGFELLOW ENERGY, LP	Property Name: MARLEY STATE COM 31 AB	Well Number 005H
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Kick Off Point (KOP)

UL H	Section 36	Township 17S	Range 27E	Lot	Feet 1898	From N/S NORTH	Feet 834	From E/W EAST	County EDDY
Latitude 32.7925846					Longitude 104.2262730			NAD 83	

First Take Point (FTP)

UL H	Section 31	Township 17S	Range 28E	Lot 2	Feet 2057	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.7921330					Longitude 104.2232306			NAD 83	

Last Take Point (LTP)

UL H	Section 31	Township 17S	Range 28E	Lot	Feet 2075	From N/S NORTH	Feet 101	From E/W EAST	County EDDY
Latitude 32.7921569					Longitude 104.2066611			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
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KZ 06/29/2018



Longfellow Energy

Eddy Co., NM (Nad-83)
MARLEY STATE COM 31 AB
005H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

09 June, 2023





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 005H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Well:	005H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_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		MARLEY STATE COM 31 AB			
Site Position:		Northing:	652,447.99 usft	Latitude:	32.793545
From:	Map	Easting:	580,846.39 usft	Longitude:	-104.204761
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.070 °

Well	005H					
Well Position	+N/-S	0.00 usft	Northing:	652,867.13 usft	Latitude:	32.794718
	+E/-W	0.00 usft	Easting:	573,855.64 usft	Longitude:	-104.227509
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,625.70 usft

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	89.42	

Survey Program	Date	06/09/23			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
162.00	9,414.00	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	
162.00	0.49	354.16	162.00	0.69	-0.07	-0.06	0.30	0.30	0.00	
221.00	0.64	347.56	221.00	1.26	-0.17	-0.15	0.28	0.25	-11.19	
311.00	0.80	153.67	310.99	1.19	0.00	0.02	1.59	0.18	184.57	
493.00	5.55	154.28	492.66	-7.88	4.39	4.31	2.61	2.61	0.34	
583.00	7.01	153.82	582.12	-16.73	8.70	8.53	1.62	1.62	-0.51	
674.00	6.62	150.96	672.48	-26.30	13.70	13.43	0.57	-0.43	-3.14	
765.00	7.95	148.71	762.74	-36.27	19.51	19.14	1.49	1.46	-2.47	
856.00	9.12	153.21	852.73	-48.08	26.03	25.54	1.48	1.29	4.95	
946.00	10.93	158.52	941.36	-62.39	32.37	31.74	2.26	2.01	5.90	
1,037.00	15.17	156.62	1,029.99	-81.36	40.26	39.43	4.68	4.66	-2.09	
1,127.00	17.56	154.96	1,116.33	-104.47	50.68	49.62	2.71	2.66	-1.84	
1,249.00	18.21	153.96	1,232.44	-138.27	66.84	65.43	0.59	0.53	-0.82	
1,396.00	18.75	154.51	1,371.86	-180.24	87.09	85.26	0.39	0.37	0.37	
1,491.00	22.84	151.55	1,460.65	-210.24	102.45	100.32	4.44	4.31	-3.12	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 005H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Well:	005H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

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)
1,586.00	24.26	150.43	1,547.74	-243.43	120.87	118.40	1.57	1.49	-1.18
1,681.00	26.98	153.58	1,633.39	-279.71	140.09	137.25	3.20	2.86	3.32
1,775.00	28.24	153.59	1,716.69	-318.73	159.47	156.24	1.34	1.34	0.01
1,869.00	28.23	153.14	1,799.50	-358.48	179.41	175.77	0.23	-0.01	-0.48
1,965.00	28.14	153.05	1,884.12	-398.91	199.92	195.88	0.10	-0.09	-0.09
2,060.00	27.54	155.33	1,968.13	-438.84	219.24	214.79	1.29	-0.63	2.40
2,155.00	27.29	155.72	2,052.46	-478.65	237.37	232.51	0.32	-0.26	0.41
2,250.00	26.95	155.42	2,137.01	-518.08	255.28	250.02	0.39	-0.36	-0.32
2,344.00	26.52	155.09	2,220.96	-556.49	272.98	267.33	0.48	-0.46	-0.35
2,439.00	26.16	154.73	2,306.10	-594.66	290.85	284.82	0.41	-0.38	-0.38
2,534.00	25.77	153.95	2,391.51	-632.15	308.86	302.44	0.55	-0.41	-0.82
2,628.00	25.40	153.62	2,476.29	-668.57	326.79	320.01	0.42	-0.39	-0.35
2,721.00	25.15	153.63	2,560.39	-704.14	344.43	337.28	0.27	-0.27	0.01
2,815.00	25.02	153.73	2,645.52	-739.86	362.10	354.59	0.15	-0.14	0.11
2,909.00	26.35	151.85	2,730.24	-776.09	380.74	372.86	1.66	1.41	-2.00
3,002.00	28.06	139.24	2,813.01	-810.88	404.78	396.55	6.45	1.84	-13.56
3,097.00	29.65	130.28	2,896.26	-843.02	437.31	428.76	4.84	1.67	-9.43
3,191.00	31.99	120.27	2,977.03	-870.62	476.59	467.75	5.99	2.49	-10.65
3,285.00	35.86	109.64	3,055.08	-892.46	524.08	515.02	7.52	4.12	-11.31
3,380.00	39.62	102.99	3,130.23	-908.63	579.85	570.62	5.83	3.96	-7.00
3,476.00	45.88	99.50	3,200.70	-921.21	643.73	634.37	6.97	6.52	-3.64
3,571.00	52.00	96.26	3,263.08	-930.93	714.65	705.19	6.93	6.44	-3.41
3,666.00	56.97	94.63	3,318.25	-938.23	791.60	782.06	5.41	5.23	-1.72
3,761.00	59.58	90.62	3,368.21	-941.89	872.29	862.71	4.52	2.75	-4.22
3,855.00	59.74	90.51	3,415.70	-942.69	953.41	943.82	0.20	0.17	-0.12
3,918.00	59.81	90.24	3,447.41	-943.05	1,007.85	998.25	0.39	0.11	-0.43
3,950.00	60.94	89.93	3,463.23	-943.09	1,035.67	1,026.07	3.63	3.53	-0.97
4,044.00	69.60	89.47	3,502.52	-942.63	1,120.96	1,111.36	9.22	9.21	-0.49
4,138.00	77.72	88.86	3,528.94	-941.31	1,211.08	1,201.49	8.66	8.64	-0.65
4,232.00	86.50	89.04	3,541.83	-939.60	1,304.08	1,294.50	9.34	9.34	0.19
4,327.00	88.67	89.45	3,545.83	-938.35	1,398.98	1,389.41	2.32	2.28	0.43
4,421.00	89.42	89.76	3,547.40	-937.71	1,492.97	1,483.40	0.86	0.80	0.33
4,514.00	87.49	90.25	3,549.91	-937.71	1,585.93	1,576.36	2.14	-2.08	0.53
4,608.00	87.71	90.22	3,553.84	-938.10	1,679.85	1,670.26	0.24	0.23	-0.03
4,702.00	88.08	90.03	3,557.30	-938.30	1,773.78	1,764.19	0.44	0.39	-0.20
4,797.00	88.36	89.36	3,560.25	-937.80	1,868.73	1,859.15	0.76	0.29	-0.71
4,892.00	88.69	88.32	3,562.69	-935.88	1,963.68	1,954.11	1.15	0.35	-1.09
4,986.00	89.00	87.07	3,564.59	-932.10	2,057.58	2,048.04	1.37	0.33	-1.33
5,081.00	88.58	89.40	3,566.59	-929.17	2,152.51	2,143.00	2.49	-0.44	2.45
5,175.00	89.34	90.32	3,568.30	-928.94	2,246.49	2,236.98	1.27	0.81	0.98
5,269.00	87.51	90.09	3,570.88	-929.28	2,340.45	2,330.93	1.96	-1.95	-0.24
5,363.00	87.80	90.18	3,574.73	-929.50	2,434.38	2,424.84	0.32	0.31	0.10
5,457.00	88.13	90.22	3,578.07	-929.83	2,528.32	2,518.77	0.35	0.35	0.04
5,551.00	88.66	90.24	3,580.70	-930.20	2,622.28	2,612.73	0.56	0.56	0.02



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 005H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Well:	005H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

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)
5,646.00	89.31	90.24	3,582.38	-930.60	2,717.26	2,707.70	0.68	0.68	0.00
5,741.00	89.81	90.26	3,583.11	-931.02	2,812.26	2,802.69	0.53	0.53	0.02
5,836.00	88.19	89.94	3,584.77	-931.18	2,907.24	2,897.66	1.74	-1.71	-0.34
5,930.00	88.30	89.62	3,587.65	-930.82	3,001.19	2,991.62	0.36	0.12	-0.34
6,024.00	86.56	88.32	3,591.86	-929.13	3,095.08	3,085.51	2.31	-1.85	-1.38
6,119.00	86.50	87.62	3,597.61	-925.78	3,189.84	3,180.31	0.74	-0.06	-0.74
6,214.00	88.81	87.00	3,601.50	-921.32	3,284.65	3,275.16	2.52	2.43	-0.65
6,308.00	88.89	88.31	3,603.39	-917.47	3,378.55	3,369.09	1.40	0.09	1.39
6,403.00	89.59	89.90	3,604.65	-915.99	3,473.53	3,464.08	1.83	0.74	1.67
6,497.00	89.95	90.00	3,605.03	-915.91	3,567.53	3,558.07	0.40	0.38	0.11
6,591.00	90.35	89.78	3,604.78	-915.73	3,661.53	3,652.07	0.49	0.43	-0.23
6,679.00	89.23	89.93	3,605.10	-915.51	3,749.53	3,740.07	1.28	-1.27	0.17
6,769.00	89.34	90.17	3,606.22	-915.58	3,839.52	3,830.05	0.29	0.12	0.27
6,860.00	87.97	89.93	3,608.36	-915.66	3,930.49	3,921.02	1.53	-1.51	-0.26
6,954.00	88.14	89.51	3,611.55	-915.20	4,024.44	4,014.97	0.48	0.18	-0.45
7,049.00	88.08	89.72	3,614.68	-914.57	4,119.38	4,109.91	0.23	-0.06	0.22
7,144.00	88.05	88.94	3,617.89	-913.46	4,214.32	4,204.86	0.82	-0.03	-0.82
7,237.00	88.98	88.66	3,620.30	-911.51	4,307.27	4,297.82	1.04	1.00	-0.30
7,332.00	87.52	88.90	3,623.20	-909.49	4,402.20	4,392.77	1.56	-1.54	0.25
7,427.00	88.42	89.30	3,626.57	-908.00	4,497.13	4,487.71	1.04	0.95	0.42
7,522.00	89.51	89.16	3,628.28	-906.72	4,592.10	4,582.69	1.16	1.15	-0.15
7,617.00	88.67	89.68	3,629.79	-905.76	4,687.08	4,677.67	1.04	-0.88	0.55
7,710.00	89.04	89.68	3,631.65	-905.24	4,780.06	4,770.66	0.40	0.40	0.00
7,804.00	87.49	89.77	3,634.50	-904.79	4,874.02	4,864.61	1.65	-1.65	0.10
7,899.00	87.91	89.65	3,638.31	-904.31	4,968.94	4,959.53	0.46	0.44	-0.13
7,995.00	88.78	88.83	3,641.08	-903.03	5,064.89	5,055.49	1.25	0.91	-0.85
8,090.00	87.75	89.67	3,643.96	-901.79	5,159.83	5,150.44	1.40	-1.08	0.88
8,184.00	88.11	90.03	3,647.35	-901.55	5,253.77	5,244.38	0.54	0.38	0.38
8,279.00	88.98	89.94	3,649.77	-901.52	5,348.74	5,339.34	0.92	0.92	-0.09
8,373.00	88.33	91.24	3,651.97	-902.49	5,442.71	5,433.29	1.55	-0.69	1.38
8,468.00	88.11	93.35	3,654.92	-906.29	5,537.58	5,528.12	2.23	-0.23	2.22
8,562.00	89.79	92.73	3,656.65	-911.27	5,631.43	5,621.92	1.91	1.79	-0.66
8,656.00	89.06	91.50	3,657.59	-914.74	5,725.36	5,715.80	1.52	-0.78	-1.31
8,750.00	88.53	90.13	3,659.57	-916.08	5,819.32	5,809.75	1.56	-0.56	-1.46
8,845.00	89.01	89.39	3,661.61	-915.68	5,914.30	5,904.73	0.93	0.51	-0.78
8,939.00	88.50	90.17	3,663.65	-915.32	6,008.28	5,998.70	0.99	-0.54	0.83
9,033.00	89.01	90.99	3,665.69	-916.27	6,102.25	6,092.66	1.03	0.54	0.87
9,127.00	90.13	91.05	3,666.40	-917.95	6,196.23	6,186.62	1.19	1.19	0.06
9,222.00	88.81	92.12	3,667.28	-920.57	6,291.19	6,281.54	1.79	-1.39	1.13
9,316.00	89.32	92.23	3,668.81	-924.14	6,385.11	6,375.42	0.56	0.54	0.12
9,344.00	89.79	92.12	3,669.03	-925.20	6,413.08	6,403.39	1.72	1.68	-0.39
9,414.00	89.79	92.12	3,669.28	-927.79	6,483.04	6,473.31	0.00	0.00	0.00



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 005H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3646.00usft (AKITA 519)
Well:	005H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
9,414.00	3,669.28	-927.79	6,483.04	Projection to Bit: 9414.00' MD/ 3669.28' TVD	
9,414.00	3,669.28	-927.79	6,483.04	Final Station Closure Distance= 6549.09 /Direction= 98.14	
9,414.00	3,669.28	-927.79	6,483.04	TD: Latitude= 32.792148 / Longitude= -104.206415	
9,414.00	3,669.28	-927.79	6,483.04	TD: Y= 651939.34 / X= 580338.68	

Checked By: _____

Approved By: _____

Date: _____

State of New Mexico Energy, Minerals and Natural Resources							Form Revised April 3, 2017			
Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505							1. WELL API NO. 30-015-53814			
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505							2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN			
							3. State Oil & Gas Lease No.			
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)							5. Lease Name or Unit Agreement Name Marley State Com 31 AB			
							6. Well Number: 005H			
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Longfellow Energy, LP							9. OGRID 372210			
10. Address of Operator 8115 Preston Rd, Suite 800, Dallas, TX 75225							11. Pool name or Wildcat Red Lake; Glorieta-Yeso, Northeast			
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	A	36	17 S	27 E		1125	North	1210	East	Eddy
BH:	H	31	17 S	28 E		2078	North	27	East	Eddy
13. Date Spudded 6/1/2023	14. Date T.D. Reached 6/19/2023		15. Date Rig Released 6/21/2023		16. Date Completed (Ready to Produce) 11/1/2023			17. Elevations (DF and RKB, RT, GR, etc.) 3623.5		
18. Total Measured Depth of Well 9414'			19. Plug Back Measured Depth 9365'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Mudlog		
22. Producing Interval(s), of this completion - Top, Bottom, Name 4244'-9332' Yeso										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
9-5/8"		36#		1315'		12-1/4"		650 sxs. cmt to surf		0
7"		32#		4088'		8-3/4"		1495 sxs. cmt to surf		0
5-1/2"		20#		9407'		8-3/4"		1495 sxs. cmt to surf		0
24. LINER RECORD										
SIZE		TOP	BOTTOM	SACKS CEMENT	SCREEN		25. TUBING RECORD			
							SIZE		DEPTH SET	PACKER SET
							2-7/8"		3801'	
26. Perforation record (interval, size, and number) 9332-9157, 9128-8953, 8924-8749, 8720-8545, 8516-8341, 8312-8137, 8108-7933, 7904-7729, 7700-7525, 7496-7321, 7292-7117, 7088-6913, 6813-6644, 6613-6446, 6413-6242, 6213-6042, 6013-5842, 5813-5642, 5613-5471, 5413-5242, 5213-5042, 5009-4842, 4810-4642, 4610-4442, 4408-4244.							27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.			
							DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED	
							4244'-9332'		Frac is 25 stages w/ 370406bbls slickwater and 6001324# sand	
28. PRODUCTION										
Date First Production 11/17/2023		Production Method (Flowing, gas lift, pumping - Size and type pump) Electric Submersible Pump				Well Status (Prod. or Shut-in) Prod				
Date of Test 2/22/2024	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl 184	Gas - MCF 274	Water - Bbl. 2547	Gas - Oil Ratio			
Flow Tubing Press. 289	Casing Pressure 110	Calculated 24-Hour Rate	Oil - Bbl. 184	Gas - MCF 274	Water - Bbl. 2547	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold							30. Test Witnessed By Francisco Flores			
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.							33. Rig Release Date:			
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude							Longitude		NAD83	
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature 		Printed Name David Cain		Title Regulatory Analyst			Date 2/23/2024			
E-mail Address david.cain@longfellowenergy.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg 1447'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1820'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 3480'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock 3514'	T. Ellenburger	Base Greenhorn	T.Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T.Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs	T.Todilto	
T. Abo	T.	T. Entrada	
T. Wolfcamp	T.	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....

No. 2, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....

No. 2, from.....to.....feet.....

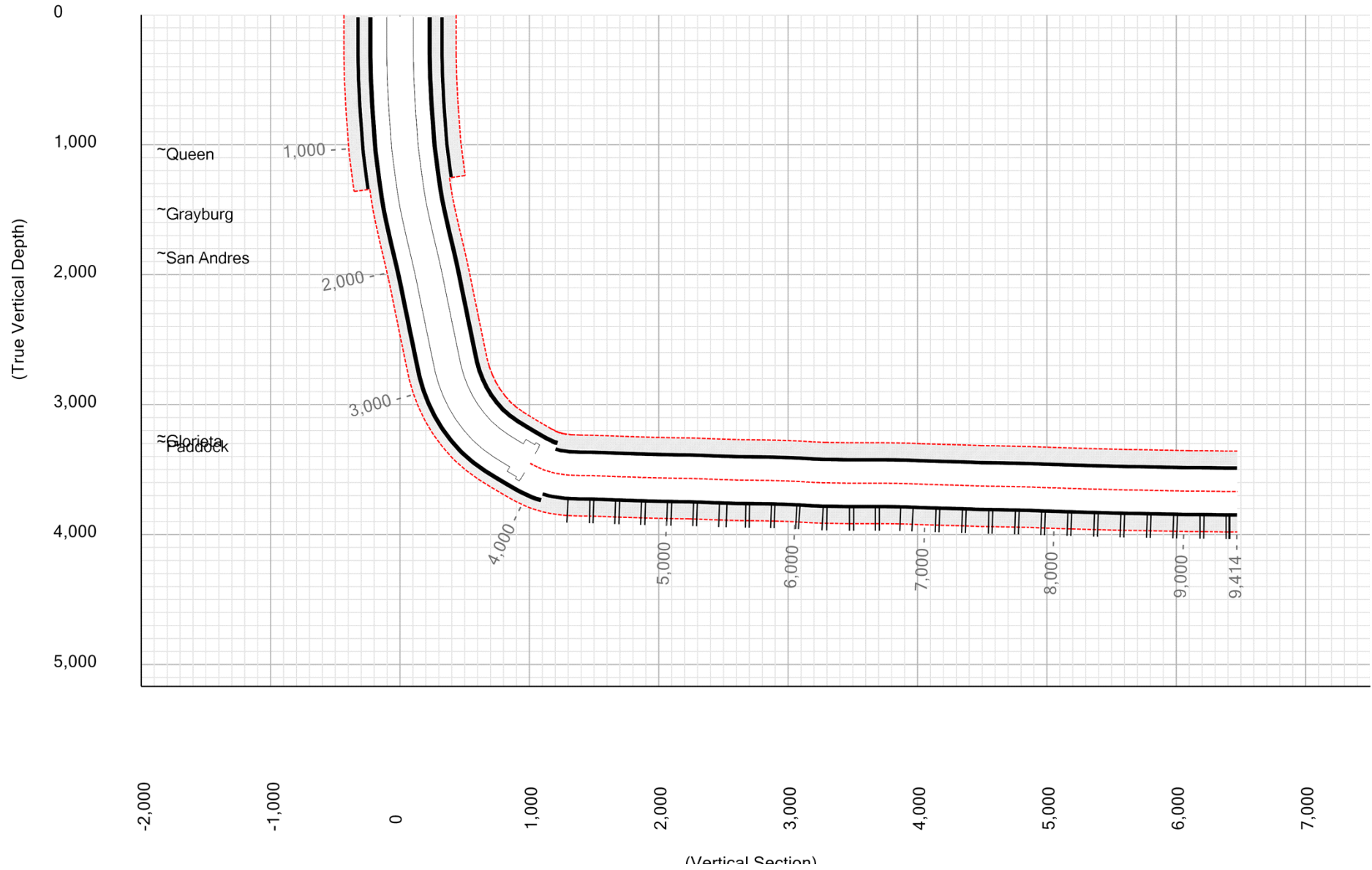
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Marley State Com 31 AB # 5H, 2/12/2024



Marley State Com 31 AB # 5H API # 30-015-53814				
1125 FNL & 1210 FEL	GL Elev:	3,625.00	KOP:	2,890
Section 36, Township 17S, Range 27E			EOC:	4,224
County, State: Eddy, NM			Fill Depth:	
Aux ID:			PBTD:	9,365.00
'KB' correction: 20; All Depths Corr To: KB			TD:	9,407.00
			BOP:	7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,320.00	6/2/2023
8.7500	1,320.00	9,414.00	6/9/2023

Surface Casing

Date Ran: 6/2/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	33	9.6250	36.00	J55	1,295.00	20.00	1,315.00

Production Casing

Date Ran: 6/9/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	72	7.0000	32.00	L80	2,847.51	20.00	2,867.51
Last 35 Jts, solid body every 3rd jt							
Marker Jt	1	7.0000	32.00	L80	19.60	2,867.51	2,887.11
Casing	30	7.0000	32.00	L80	1,201.21	2,887.11	4,088.32
Solid body every 3rd jt							
Crossover	1	5.5000	20.00	L80	2.75	4,088.32	4,091.07
Casing	9	5.5000	20.00	L80	356.27	4,091.07	4,447.34
Solid body every 2nd jt							
Float Insert	1	5.5000	20.00	L80	2.70	4,447.34	4,450.04
Casing	60	5.5000	20.00	L80	2,373.39	4,450.04	6,823.43
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	19.63	6,823.43	6,843.06
Casing	59	5.5000	20.00	L80	2,343.22	6,843.06	9,186.28
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	19.68	9,186.28	9,205.96
Casing	4	5.5000	20.00	L80	159.57	9,205.96	9,365.53
Solid body every jt							
Float Collar	1	5.5000	20.00	L80	1.25	9,365.53	9,366.78
Casing	1	5.5000	20.00	L80	40.18	9,366.78	9,406.96
Float Shoe	1	5.5000	20.00	L80	2.04	9,406.96	9,409.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,320.00	9.625	12.250	Circ	1 - Lead	520	C	13.50
					2 - Tail	130	C	14.80
Circ 221 sxs								
4,088.00	9,414.00	5.500	8.750	Circ				
0.00	4,088.00	7.000	8.750	Circ	1 - Lead	375	C 35/65	12.20
					2 - Tail	1120	C	14.50
Circ 175 sx to surf								

Formation Tops / Bottoms

Top At	Bottom At	Formation
1,008		Queen
1,464		Grayburg
1,809		San Andres
3,214		Glorieta
3,254		Paddock

Zone and Perfs**Comments / Completion Summary**

Stg	Top	Btm	AIR	AIP	MIR	ISIP
1	9157	9332	130	6573	135	1629
2	8953	9128	130	6511	135	2115
3	8749	8924	130	6750	135	2320
4	8545	8720	129	6458	137	1810
5	8341	8516	135	6177	136	1618
6	8137	8312	136	6460	128	1683
7	7933	8108	133	6376	136	1834
8	7729	7904	136	6646	137	1901
9	7525	7700	119	5765	119	2088
10	7321	7496	135	6640	135	2301
11	7117	7292	134	6972	137	2262
12	6913	7088	135	6766	137	1993
13	6644	6813	136	6726	138	2539
14	6446	6613	135	6979	139	2733
15	6242	6413	134	7075	137	3041
16	6042	6213	134	6766	138	2747
17	5842	6013	136	6662	138	2355
18	5642	5813	135	6246	137	2317
19	5471	5613	118	5357	123	2361
20	5242	5413	135	6049	138	2021
21	5042	5213	136	5681	138	2090
22	4842	5009	136	5606	137	2122
23	4642	4810	135	5178	138	1873
24	4442	4610	136	4737	138	1660
25	4244	4408	135	4458	137	1613

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,244.00	4,408.00	Paddock	A	9/27/2023		4	28
Stage 25 - (4,4,4,4,4,4) SWM Charges							
4,442.00	4,610.00	Paddock	A	9/26/2023		4	28
Stage 24 - (4,4,4,4,4,4) SWM Charges							
4,642.00	4,810.00	Paddock	A	9/26/2023		4	28
Stage 23 - (4,4,4,4,4,4) SWM Charges							
4,842.00	5,009.00	Paddock	A	9/25/2023		4	28
Stage 22 - (4,4,4,4,4,4) SWM Charges							
5,042.00	5,213.00	Paddock	A	9/25/2023		4	28
Stage 21 - (4,4,4,4,4,4) SWM Charges							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
5,242.00	5,413.00	Paddock	A	9/24/2023		4	28
Stage 20 - (4,4,4,4,4,4) SWM Charges							
5,471.00	5,613.00	Paddock	A	9/23/2023		4	24
Stage 19 - (4,4,4,4,4,4) SWM Charges							
5,642.00	5,813.00	Paddock	A	9/23/2023		4	28
Stage 18 - (4,4,4,4,4,4) SWM Charges							
5,842.00	6,013.00	Paddock	A	9/22/2023		4	28
Stage 17 - (4,4,4,4,4,4) SWM Charges							
6,042.00	6,213.00	Paddock	A	9/22/2023		4	28
Stage 16 - (4,4,4,4,4,4) SWM Charges							
6,242.00	6,413.00	Paddock	A	9/21/2023		4	28
Stage 15 - (4,4,4,4,4,4) SWM Charges							
6,446.00	6,613.00	Paddock	A	9/21/2023		4	28
Stage 14 - (4,4,4,4,4,4) SWM Charges							
6,644.00	6,813.00	Paddock	A	9/20/2023		4	28
Stage 13 - (4,4,4,4,4,4) SWM Charges							
6,913.00	7,088.00	Paddock	A	9/19/2023		4	28
Stage 12 - (4,4,4,4,4,4) SWM Charges							
7,117.00	7,292.00	Paddock	A	9/19/2023		4	28
Stage 11 - (4,4,4,4,4,4) SWM Charges							
7,321.00	7,492.00	Paddock	A	9/18/2023		4	28
Stage 10 - (4,4,4,4,4,4) SWM Charges							
7,525.00	7,700.00	Paddock	A	9/18/2023		4	28
Stage 9 - (4,4,4,4,4,4) SWM Charges							
7,729.00	7,904.00	Paddock	A	9/17/2023		4	28
Stage 8 - (4,4,4,4,4,4) SWM Charges							
7,933.00	8,108.00	Paddock	A	9/17/2023		4	28
Stage 7 - (4,4,4,4,4,4) SWM Charges							
8,137.00	8,312.00	Paddock	A	9/16/2023		4	28
Stage 6 - (4,4,4,4,4,4) SWM Charges							
8,341.00	8,516.00	Paddock	A	9/15/2023		4	28
Stage 5 - (4,4,4,4,4,4) SWM Charges							
8,545.00	8,720.00	Paddock	A	9/13/2023		4	28
Stage 4 - (4,4,4,4,4,4) SWM Charges							
8,749.00	8,924.00	Paddock	A	9/13/2023		4	28
Stage 3 - (4,4,4,4,4,4) SWM Charges							
8,953.00	9,125.00	Paddock	A	9/12/2023		4	28
Stage 2 - (4,4,4,4,4,4) SWM Charges							
9,157.00	9,326.00	Paddock	A	9/9/2023		4	28
Stage 1 - (4,4,4,4,4,4) SWM Charges							
9,349.00	9,355.00	Paddock	A	8/24/2023	9/9/2023	6	36
8-24-23 TCP TOE PERFS. TTS TCP							

Tubing

Date Ran: 10/19/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	120	2.8750	6.50	L80	3,781.05	20.00	3,801.05
Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" poly CT string ran in well.							
Seat Nipple	1	2.8750			0.60	3,801.05	3,801.65

Tubing Sub	1	2.8750			3.60	3,801.65	3,805.25
ESP Pump	1	4.0000			0.53	3,805.25	3,805.78
Discharge Pump							
ESP Pump	1	4.0000			23.50	3,805.78	3,829.28
E3000, 96 Stages							
ESP Pump	1	4.0000			23.50	3,829.28	3,852.78
E3000, 96 Stages							
ESP Pump	1	4.0000			13.00	3,852.78	3,865.78
G42, 41 Stages							
ESP Intake	1	4.0000			8.60	3,865.78	3,874.38
Double gas sep/intakes: MODEL 400							
ESP Seal	2	4.0000			12.20	3,874.38	3,886.58
Double seals							
ESP Motor	1	4.5000			34.90	3,886.58	3,921.48
NEW, 286 HP . 450 MODEL							
ESP Sensor	1	4.0000			2.70	3,921.48	3,924.18
NEW, Zenith E7							
Tubing Sub	1	2.3750			2.00	3,924.18	3,926.18
Band 3/8" CT to sub							

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

ACKNOWLEDGMENTS

Action 317132

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 317132
	Action Type: [C-104] Completion Packet (C-104C)

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.

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

CONDITIONS

Action 317132

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 317132
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/26/2024