

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

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

Form C-104
Revised August 1, 2011
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 – 015-53818	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 001H

II. 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	17S	27E		1045	North	1210	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	17S	28E		388	North	48	East	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 7/10/2023	²² Ready Date 11/1/2023	²³ TD 3571'V/9180'M	²⁴ PBSD 3572'V/9126'M	²⁵ Perforations 9,105'-4,059'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8"	1317'	515		
8-3/4"	7"	3931'	1480		
8-3/4"	5-1/2"	9169'	1480		
	3-1/2"	3618'			

V. Well Test Data

³¹ Date New Oil 12/12/2023	³² Gas Delivery Date 11/28/2023	³³ Test Date 2/22/2024	³⁴ Test Length 24	³⁵ Tbg. Pressure 109	³⁶ Csg. Pressure 85
³⁷ Choke Size NA	³⁸ Oil 274	³⁹ Water 2598	⁴⁰ Gas 326		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:



Printed name:
David Cain

Title:
Regulatory Analyst

E-mail Address:
David.cain@longfellowenergy.com

Date:
2/23/2024

Phone:
(972) 590-9918

OIL CONSERVATION DIVISION

Approved by:
PATRICIA MARTINEZ

Title:
PETROLEUM SPECIALIST

Approval Date:
2/27/2024

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

Form C-102

Energy, Minerals & Natural Resources Department

Revised August 1, 2011

OIL CONSERVATION DIVISION

Submit one copy to appropriate

District Office

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-53818	² Pool Code 96836	³ Pool Name RED LAKE; GLORIEYA-YESO, NORTHEAST
⁴ Property Code 334079	⁵ Property Name MARLEY STATE COM 31 AB	⁶ Well Number 001H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁹ Elevation 3623.5

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		1045	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
A	31	17 S	28 E		388	NORTH	48	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 001H ELEV. = 3623.5' LAT. = 32.7949382°N (NAD83) LONG. = 104.2275106°W NMSP EAST (FT) N = 652947.14 E = 573855.11		KICK OFF POINT 537' FNL, 820' FEL LAT. = 32.7963250°N LONG. = 104.2262515°W		FIRST TAKE POINT 409' FNL, 100' FWL LAT. = 32.7966604°N LONG. = 104.2232577°W LAST TAKE POINT 388' FNL, 102' FEL LAT. = 32.7967918°N LONG. = 104.2067415°W		BOTTOM OF HOLE LAT. = 32.7967919°N LONG. = 104.2065659°W NMSP EAST (FT) N = 653628.61 E = 580290.28			
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: David Cain Date: 10/20/2023
 Printed Name: David Cain
 E-mail Address: david.cain@longfellowenergy.com

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 26, 2023
 Date of Survey: JULY 26, 2023
 Signature and Seal of Professional Surveyor: [Signature]
 Certificate Number: 12797
 Surveyor's License No. 8806E

Intent ☐ As Drilled ☒

API # 30-015-53818		
Operator Name: LONGFELLOW ENERGY, LP	Property Name: MARLEY STATE COM 31 AB	Well Number 001H

Kick Off Point (KOP)

UL A	Section 36	Township 17S	Range 27E	Lot	Feet 537	From N/S NORTH	Feet 820	From E/W EAST	County EDDY
Latitude 32.7963250					Longitude 104.2262515			NAD 83	

First Take Point (FTP)

UL A	Section 31	Township 17S	Range 28E	Lot 1	Feet 409	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.7966604					Longitude 104.2232577			NAD 83	

Last Take Point (LTP)

UL A	Section 31	Township 17S	Range 28E	Lot	Feet 388	From N/S NORTH	Feet 102	From E/W EAST	County EDDY
Latitude 32.7967918					Longitude 104.2067415			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



Longfellow Energy

Eddy Co., NM (Nad-83)
MARLEY STATE COM 31 AB
001H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

17 July, 2023





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Well:	001H	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 AB		
Site Position:		Northing:	652,447.99 usft
From:	Map	Easting:	580,846.39 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.793545
		Longitude:	-104.204761

Well	001H		
Well Position	+N/-S	0.00 usft	Northing: 652,947.14 usft
	+E/-W	0.00 usft	Easting: 573,855.11 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.057 °	Ground Level:	3,623.50 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)
	0.00	0.00	0.00
			89.42

Survey Program	Date 07/17/23		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
163.00	9,180.00	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
163.00	0.55	237.97	163.00	-0.41	-0.66	-0.67	0.34	0.34	0.00
222.00	0.26	280.85	222.00	-0.54	-1.03	-1.04	0.68	-0.49	72.68
311.00	1.63	14.57	310.98	0.72	-0.91	-0.91	1.87	1.54	105.30
402.00	2.88	24.55	401.91	4.06	0.36	0.40	1.43	1.37	10.97
493.00	3.87	30.54	492.75	8.78	2.87	2.96	1.15	1.09	6.58
583.00	6.40	37.88	582.39	15.36	7.50	7.65	2.90	2.81	8.16
674.00	7.63	39.62	672.70	24.01	14.46	14.70	1.37	1.35	1.91
765.00	9.09	40.30	762.73	34.15	22.96	23.31	1.61	1.60	0.75
855.00	11.78	41.85	851.24	46.42	33.69	34.16	3.00	2.99	1.72
946.00	12.65	40.97	940.18	60.86	46.43	47.04	0.98	0.96	-0.97
1,037.00	14.50	42.99	1,028.63	76.72	60.73	61.50	2.10	2.03	2.22
1,127.00	16.53	40.90	1,115.35	94.64	76.79	77.75	2.34	2.26	-2.32
1,218.00	17.92	38.23	1,202.26	115.42	93.94	95.10	1.76	1.53	-2.93
1,249.00	18.19	37.72	1,231.74	123.00	99.85	101.09	1.01	0.87	-1.65



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Well:	001H	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)
1,397.00	17.30	37.51	1,372.70	158.73	127.38	128.98	0.60	-0.60	-0.14
1,492.00	17.91	37.43	1,463.25	181.53	144.86	146.69	0.64	0.64	-0.08
1,586.00	18.89	38.08	1,552.44	204.99	163.03	165.10	1.07	1.04	0.69
1,681.00	19.62	33.88	1,642.13	230.33	181.41	183.73	1.65	0.77	-4.42
1,775.00	20.34	31.22	1,730.47	257.41	198.67	201.27	1.23	0.77	-2.83
1,870.00	19.87	30.55	1,819.68	285.43	215.44	218.31	0.55	-0.49	-0.71
1,965.00	20.48	33.92	1,908.86	313.13	232.92	236.08	1.38	0.64	3.55
2,060.00	20.41	37.50	1,997.88	340.06	252.28	255.71	1.32	-0.07	3.77
2,155.00	19.73	38.81	2,087.11	365.70	272.41	276.10	0.86	-0.72	1.38
2,250.00	19.06	39.09	2,176.72	390.23	292.24	296.18	0.71	-0.71	0.29
2,344.00	17.37	39.28	2,266.00	413.01	310.80	314.97	1.80	-1.80	0.20
2,439.00	17.24	39.30	2,356.70	434.88	328.70	333.08	0.14	-0.14	0.02
2,534.00	18.71	39.44	2,447.06	457.54	347.30	351.91	1.55	1.55	0.15
2,628.00	19.24	39.40	2,535.95	481.15	366.70	371.56	0.56	0.56	-0.04
2,722.00	19.32	39.80	2,624.68	505.07	386.49	391.58	0.16	0.09	0.43
2,815.00	23.07	49.90	2,711.41	528.64	410.29	415.62	5.61	4.03	10.86
2,909.00	27.30	58.40	2,796.48	551.82	442.76	448.33	5.91	4.50	9.04
3,002.00	30.96	66.72	2,877.74	572.46	482.93	488.70	5.86	3.94	8.95
3,097.00	33.53	73.60	2,958.10	589.54	530.57	536.51	4.71	2.71	7.24
3,191.00	38.56	78.38	3,034.10	602.78	584.22	590.29	6.13	5.35	5.09
3,286.00	43.55	80.46	3,105.72	614.17	645.54	651.72	5.45	5.25	2.19
3,380.00	48.96	81.84	3,170.69	624.58	712.61	718.90	5.85	5.76	1.47
3,476.00	54.11	85.96	3,230.40	632.47	787.31	793.67	6.33	5.36	4.29
3,562.00	60.99	90.36	3,276.54	634.69	859.78	866.16	9.09	8.00	5.12
3,571.00	61.22	90.20	3,280.88	634.65	867.66	874.04	2.99	2.56	-1.78
3,666.00	61.72	89.95	3,326.26	634.54	951.12	957.50	0.57	0.53	-0.26
3,761.00	62.58	89.68	3,370.64	634.81	1,035.12	1,041.49	0.94	0.91	-0.28
3,855.00	69.84	91.85	3,408.53	633.62	1,121.06	1,127.41	8.01	7.72	2.31
3,951.00	77.37	91.68	3,435.61	630.79	1,213.04	1,219.37	7.85	7.84	-0.18
4,045.00	82.55	91.65	3,451.99	628.10	1,305.53	1,311.83	5.51	5.51	-0.03
4,138.00	88.72	90.22	3,459.07	626.59	1,398.20	1,404.48	6.81	6.63	-1.54
4,232.00	88.91	89.70	3,461.01	626.66	1,492.18	1,498.45	0.59	0.20	-0.55
4,327.00	89.25	89.17	3,462.54	627.59	1,587.17	1,593.44	0.66	0.36	-0.56
4,421.00	89.70	88.64	3,463.40	629.39	1,681.15	1,687.43	0.74	0.48	-0.56
4,515.00	87.98	89.64	3,465.30	630.80	1,775.11	1,781.41	2.12	-1.83	1.06
4,608.00	87.90	89.59	3,468.65	631.43	1,868.05	1,874.34	0.10	-0.09	-0.05
4,703.00	88.26	89.31	3,471.83	632.34	1,962.99	1,969.29	0.48	0.38	-0.29
4,797.00	88.35	88.52	3,474.61	634.12	2,056.93	2,063.25	0.85	0.10	-0.84
4,892.00	87.90	89.43	3,477.72	635.82	2,151.86	2,158.19	1.07	-0.47	0.96
4,986.00	88.52	91.13	3,480.65	635.36	2,245.81	2,252.13	1.92	0.66	1.81
5,081.00	89.08	91.40	3,482.64	633.26	2,340.77	2,347.06	0.65	0.59	0.28
5,175.00	89.36	91.07	3,483.92	631.23	2,434.74	2,441.00	0.46	0.30	-0.35
5,269.00	89.81	90.84	3,484.60	629.67	2,528.72	2,534.97	0.54	0.48	-0.24
5,363.00	89.05	89.71	3,485.54	629.22	2,622.71	2,628.95	1.45	-0.81	-1.20



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Well:	001H	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)
5,457.00	88.88	88.83	3,487.24	630.41	2,716.69	2,722.93	0.95	-0.18	-0.94
5,551.00	88.88	88.41	3,489.07	632.68	2,810.65	2,816.91	0.45	0.00	-0.45
5,646.00	88.94	87.69	3,490.88	635.91	2,905.57	2,911.86	0.76	0.06	-0.76
5,741.00	88.86	87.66	3,492.71	639.76	3,000.48	3,006.80	0.09	-0.08	-0.03
5,836.00	88.07	87.84	3,495.25	643.49	3,095.37	3,101.72	0.85	-0.83	0.19
5,931.00	88.24	89.28	3,498.31	645.88	3,190.29	3,196.66	1.53	0.18	1.52
6,024.00	88.63	89.74	3,500.85	646.67	3,283.25	3,289.63	0.65	0.42	0.49
6,119.00	88.91	91.22	3,502.89	645.88	3,378.22	3,384.59	1.59	0.29	1.56
6,214.00	89.05	91.68	3,504.58	643.47	3,473.17	3,479.51	0.51	0.15	0.48
6,308.00	89.42	91.18	3,505.83	641.13	3,567.14	3,573.44	0.66	0.39	-0.53
6,403.00	87.90	90.15	3,508.06	640.02	3,662.10	3,668.39	1.93	-1.60	-1.08
6,497.00	87.82	89.91	3,511.57	639.97	3,756.03	3,762.32	0.27	-0.09	-0.26
6,531.00	88.16	89.52	3,512.76	640.14	3,790.01	3,796.30	1.52	1.00	-1.15
6,619.00	88.53	89.56	3,515.30	640.85	3,877.97	3,884.26	0.42	0.42	0.05
6,709.00	89.43	89.56	3,516.90	641.54	3,967.96	3,974.25	1.00	1.00	0.00
6,800.00	90.49	88.38	3,516.97	643.18	4,058.94	4,065.24	1.74	1.16	-1.30
6,891.00	88.89	89.20	3,517.46	645.10	4,149.91	4,156.23	1.98	-1.76	0.90
6,981.00	87.69	88.52	3,520.14	646.89	4,239.85	4,246.18	1.53	-1.33	-0.76
7,072.00	88.02	87.74	3,523.55	649.86	4,330.74	4,337.10	0.93	0.36	-0.86
7,163.00	88.81	87.96	3,526.07	653.27	4,421.64	4,428.03	0.90	0.87	0.24
7,253.00	90.21	88.00	3,526.84	656.44	4,511.58	4,517.99	1.56	1.56	0.04
7,344.00	89.17	89.37	3,527.33	658.53	4,602.55	4,608.98	1.89	-1.14	1.51
7,435.00	86.76	90.75	3,530.56	658.43	4,693.48	4,699.91	3.05	-2.65	1.52
7,525.00	87.10	91.44	3,535.38	656.72	4,783.34	4,789.74	0.85	0.38	0.77
7,616.00	87.99	91.73	3,539.28	654.20	4,874.22	4,880.59	1.03	0.98	0.32
7,709.00	88.86	90.49	3,541.83	652.40	4,967.16	4,973.51	1.63	0.94	-1.33
7,804.00	89.06	89.96	3,543.56	652.03	5,062.15	5,068.49	0.60	0.21	-0.56
7,898.00	89.03	90.26	3,545.13	651.85	5,156.13	5,162.47	0.32	-0.03	0.32
7,994.00	87.24	88.93	3,548.25	652.53	5,252.07	5,258.41	2.32	-1.86	-1.39
8,089.00	86.84	87.75	3,553.16	655.27	5,346.90	5,353.26	1.31	-0.42	-1.24
8,184.00	87.85	87.78	3,557.56	658.97	5,441.73	5,448.12	1.06	1.06	0.03
8,278.00	88.98	87.94	3,560.16	662.48	5,535.63	5,542.05	1.21	1.20	0.17
8,373.00	90.55	87.88	3,560.55	665.95	5,630.56	5,637.01	1.65	1.65	-0.06
8,467.00	88.08	87.79	3,561.67	669.50	5,724.48	5,730.96	2.63	-2.63	-0.10
8,561.00	86.79	87.18	3,565.88	673.62	5,818.29	5,824.81	1.52	-1.37	-0.65
8,655.00	87.49	88.49	3,570.57	677.16	5,912.10	5,918.66	1.58	0.74	1.39
8,750.00	87.91	89.60	3,574.38	678.75	6,007.01	6,013.58	1.25	0.44	1.17
8,844.00	88.81	89.51	3,577.07	679.48	6,100.97	6,107.54	0.96	0.96	-0.10
8,938.00	90.49	89.30	3,577.64	680.45	6,194.96	6,201.53	1.80	1.79	-0.22
9,033.00	91.44	89.67	3,576.04	681.31	6,289.94	6,296.52	1.07	1.00	0.39
9,104.00	92.26	89.93	3,573.75	681.55	6,360.90	6,367.48	1.21	1.15	0.37
9,180.00	92.26	89.93	3,570.75	681.65	6,436.84	6,443.41	0.00	0.00	0.00



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Site:	MARLEY STATE COM 31 AB	MD Reference:	RKB = 20.3' @ 3643.80usft (AKITA 519)
Well:	001H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_3

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
1H SHL (PLAT) - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	652,947.14	573,855.11	32.794938	-104.227511
1H FTP (PLAT) - actual wellpath misses target center by 3.94usft at 4045.64usft MD (3452.08 TVD, 628.08 N, 1306.16 E) - Point	0.00	0.00	3,456.00	628.01	1,305.86	653,575.16	575,160.98	32.796661	-104.223259
1H LTP (PLAT) - actual wellpath misses target center by 22.37usft at 9104.00usft MD (3573.75 TVD, 681.55 N, 6360.90 E) - Point	0.00	0.00	3,577.09	679.64	6,382.94	653,626.79	580,238.05	32.796787	-104.206736
1H LTP (PLAN) - actual wellpath misses target center by 22.62usft at 9104.00usft MD (3573.75 TVD, 681.55 N, 6360.90 E) - Point	0.00	0.00	3,577.09	685.40	6,382.94	653,632.55	580,238.05	32.796803	-104.206736
1H BHL (PLAT) - actual wellpath misses target center by 27.37usft at 9180.00usft MD (3570.75 TVD, 681.65 N, 6436.84 E) - Point	0.00	0.00	3,579.00	680.10	6,462.90	653,627.24	580,318.01	32.796788	-104.206476
1H BHL (PLAN) - actual wellpath misses target center by 27.70usft at 9180.00usft MD (3570.75 TVD, 681.65 N, 6436.84 E) - Point	0.00	0.00	3,579.00	686.69	6,462.80	653,633.83	580,317.91	32.796806	-104.206476

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,180.00	3,570.75	681.65	6,436.84	Projection to Bit: 9180.00' MD/ 3570.75' TVD
9,180.00	3,570.75	681.65	6,436.84	Final Station Closure Distance= 6472.84 /Direction= 83.96
9,180.00	3,570.75	681.65	6,436.84	TD: Latitude= 32.796792 / Longitude= -104.206560
9,180.00	3,570.75	681.65	6,436.84	TD: Y= 653628.79 / X= 580291.95

Checked By: _____ Approved By: _____ Date: _____

Energy, Minerals and Natural Resources

Revised April 3, 2017

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

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.

30-015-53818

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:

001H

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		1045	North	1210	East	Eddy
BH:	A	31	17 S	28 E		388	North	48	East	Eddy
13. Date Spudded 7/10/2023	14. Date T.D. Reached 7/16/2023		15. Date Rig Released 7/18/2023			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 9180'			19. Plug Back Measured Depth 9126'			20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run Mudlog	

22. Producing Interval(s), of this completion - Top, Bottom, Name

4059'-9105' 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#	1317'	12-1/4"	515 sxs. cmt to surf	0
7"	32#	3931'	8-3/4"	1480 sxs. cmt to surf	0
5-1/2"	20#	9169'	8-3/4"	1480 sxs. cmt to surf	0

24. LINER RECORD

SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					3-1/2"	3618'	

25. TUBING RECORD

26. Perforation record (interval, size, and number)

9105-8932, 8902-8729, 8699-8526, 8496-8323, 8293-8120, 8093-7917, 7887-7714, 7684-7511, 7481-7308, 7275-7105, 7075-6902, 6872-6702, 6596-6431, 6398-6233, 6200-6035, 6008-5837, 5805-5639, 5610-5441, 5409-5243, 5214-5045, 5015-4847, 4817-4649, 4619-4451, 4421-4253, 4223-4059.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4059'-9105'	Frac is 25 stages w/ 377442bbls slickwater and 6036891# sand

28. PRODUCTION

Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
11/28/2023		Electric Submersible Pump				Prod	
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
2/22/2024	24	NA		274	326	2598	
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)	
109	85		274	326	2598		

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 1452'	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres 1824'	T. Simpson	T. Mancos	T. McCracken
T. Glorieta 3359'	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock 3409'	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. 3, from.....to.....

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

No. 4, 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.....

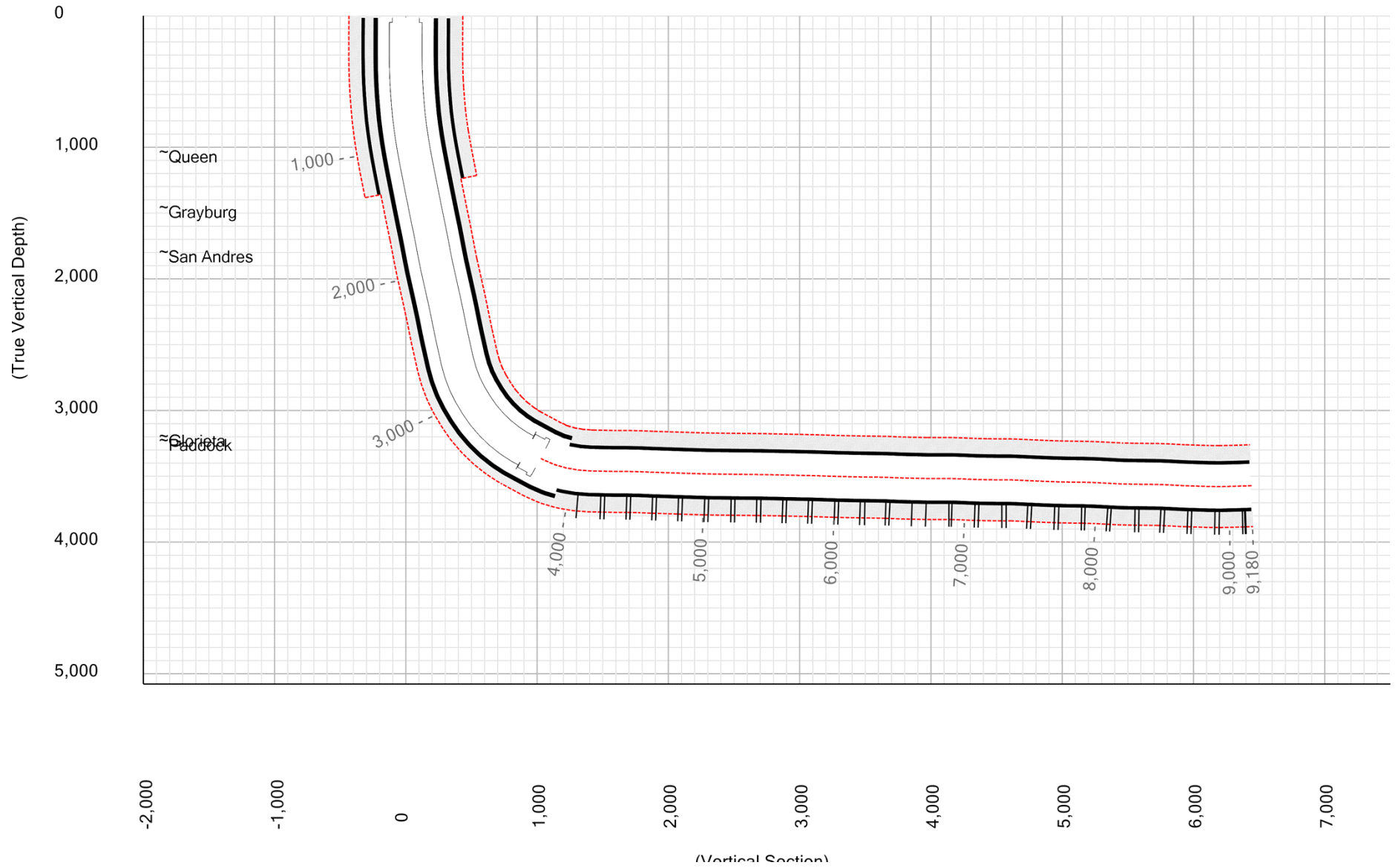
No. 2, from.....to.....feet.....

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

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

Marley State Com 31 AB # 1H, 2/12/2024



Marley State Com 31 AB # 1H API # 30-015-53818			
1045 FNL & 1210 FEL	GL Elev:	3,623.00	KOP: 2,734
Section 36, Township 17S, Range 27E			EOC: 4,120
County, State: Eddy, NM			Fill Depth:
Aux ID:			PBTD: 9,126.00
'KB' correction: 20; All Depths Corr To: KB			TD: 9,169.00
			BOP: 7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,320.00	7/10/2023
8.7500	1,320.00	9,180.00	7/16/2023

Surface Casing

Date Ran: 7/10/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	33	9.6250	36.00	J55	1,297.00	20.00	1,317.00

Production Casing

Date Ran: 7/16/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	68	7.0000	32.00	L80	2,693.64	20.00	2,713.64
Last 27 jts had solid body centraizler ever 3rd jt							
Marker Jt	1	7.0000	32.00	L80	18.74	2,713.64	2,732.38
Casing	30	7.0000	32.00	L80	1,199.02	2,732.38	3,931.40
Solid body every 3rd jt							
Crossover	1	5.5000	20.00	L80	2.77	3,931.40	3,934.17
Casing	10	5.5000	20.00	L80	396.34	3,934.17	4,330.51
Solid body every 2nd jt							
Float Insert	1	5.5000	20.00	L80	2.70	4,330.51	4,333.21
Casing	57	5.5000	20.00	L80	2,254.56	4,333.21	6,587.77
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	19.64	6,587.77	6,607.41
Casing	58	5.5000	20.00	L80	2,301.51	6,607.41	8,908.92
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	19.65	8,908.92	8,928.57
Casing	5	5.5000	20.00	L80	197.92	8,928.57	9,126.49
Float Collar	1	5.5000	20.00	L80	1.25	9,126.49	9,127.74
Casing	1	5.5000	20.00	L80	39.22	9,127.74	9,166.96
Float Shoe	1	5.5000	20.00	L80	2.04	9,166.96	9,169.00

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	385	C	13.50
					2 - Tail	130	C	14.80
Circ 157 sxs to surf								
3,931.00	9,180.00	5.500	8.750	Circ				
0.00	3,931.00	7.000	8.750	Circ	1 - Lead	420	C 25/75	12.20
					2 - Tail	1060	C	14.50
Circ 121 sxs to surf								

Formation Tops / Bottoms

Top At	Bottom At	Formation
1,006		Queen
1,426		Grayburg
1,769		San Andres
3,164		Glorieta
3,196		Paddock

Zone and Perfs**Comments / Completion Summary**

Stg	Top	Btm	AIR	AIP	MIR	ISIP
1	8932	9105	95	5941	102	1183
2	8729	8902	135	6466	136	1859
3	8526	8699	130	6895	135	1574
4	8323	8496	131	6561	136	1693
5	8120	8293	112	5842	137	2230
6	7917	8093	134	6879	136	2806
7	7714	7887	134	7021	137	2521
8	7511	7684	135	6902	137	2343
9	7308	7481	125	7106	132	2468
10	7105	7275	134	7034	138	1997
11	6902	7075	128	7093	136	1611
12	6702	6872	135	6586	138	1354
13	6431	6596	135	6578	137	1687
14	6233	6398	135	6405	137	1615
15	6035	6200	136	6252	138	1644
16	5837	6008	136	6597	138	1954
17	5639	5805	133	6349	138	1880
18	5441	5610	134	6350	136	2046
19	5243	5409	135	6495	137	2156
20	5045	5214	135	6116	139	1389
21	4847	5015	136	5528	138	1424
22	4649	4817	135	5408	138	1330
23	4451	4619	135	5600	137	1485
24	4253	4421	135	4643	137	1560
25	4059	4223	136	4911	138	1391

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,059.00	4,223.00	Paddock	A	9/26/2023		4	28
Stage 25 - (4,4,4,4,4,4,4) SWM Charges							
4,253.00	4,421.00	Paddock	A	9/26/2023		4	28
Stage 24 - (4,4,4,4,4,4,4) SWM Charges							
4,451.00	4,619.00	Paddock	A	9/25/2023		4	28
Stage 23 - (4,4,4,4,4,4,4) SWM Charges							
4,649.00	4,817.00	Paddock	A	9/25/2023		4	28
Stage 22 - (4,4,4,4,4,4,4) SWM Charges							
4,847.00	5,015.00	Paddock	A	9/24/2023		4	28
Stage 21 - (4,4,4,4,4,4,4) SWM Charges							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
5,045.00	5,214.00	Paddock	A	9/24/2023		4	28
Stage 20 - (4,4,4,4,4,4,4) SWM Charges							
5,243.00	5,409.00	Paddock	A	9/23/2023		4	28
Stage 19 - (4,4,4,4,4,4,4) SWM Charges							
5,441.00	5,610.00	Paddock	A	9/22/2023		4	28
Stage 18 - (4,4,4,4,4,4,4) SWM Charges							
5,639.00	5,805.00	Paddock	A	9/22/2023		4	28
Stage 17 - (4,4,4,4,4,4,4) SWM Charges							
5,837.00	6,008.00	Paddock	A	9/21/2023		4	28
Stage 16 - (4,4,4,4,4,4,4) SWM Charges							
6,035.00	6,200.00	Paddock	A	9/21/2023		4	28
Stage 15 - (4,4,4,4,4,4,4) SWM Charges							
6,233.00	6,398.00	Paddock	A	9/20/2023		4	28
Stage 14 - (4,4,4,4,4,4,4) SWM Charges							
6,431.00	6,596.00	Paddock	A	9/20/2023		4	28
Stage 13 - (4,4,4,4,4,4,4) SWM Charges							
6,702.00	6,872.00	Paddock	A	9/19/2023		4	28
Stage 12 - (4,4,4,4,4,4,4) SWM Charges							
6,902.00	7,075.00	Paddock	A	9/18/2023		4	28
Stage 11 - (4,4,4,4,4,4,4) SWM Charges							
7,105.00	7,275.00	Paddock	A	9/18/2023		4	28
Stage 10 - (4,4,4,4,4,4,4) SWM Charges							
7,308.00	7,481.00	Paddock	A	9/17/2023		4	28
Stage 9 - (4,4,4,4,4,4,4) SWM Charges							
7,511.00	7,684.00	Paddock	A	9/17/2023		4	28
Stage 8 - (4,4,4,4,4,4,4) SWM Charges							
7,714.00	7,886.00	Paddock	A	9/16/2023		4	28
Stage 7 - (4,4,4,4,4,4,4) SWM Charges							
7,917.00	8,093.00	Paddock	A	9/16/2023		4	28
Stage 6 - (4,4,4,4,4,4,4) SWM Charges							
8,120.00	8,293.00	Paddock	A	9/13/2023		4	28
Stage 5 - (4,4,4,4,4,4,4) SWM Charges							
8,323.00	8,496.00	Paddock	A	9/13/2023		4	28
Stage 4 - (4,4,4,4,4,4,4) SWM Charges							
8,525.00	8,699.00	Paddock	A	9/12/2023		4	28
Stage 3 - (4,4,4,4,4,4,4) SWM Charges							
8,729.00	8,902.00	Paddock	A	9/9/2023		4	28
Stage 2 - (4,4,4,4,4,4,4) SWM Charges							
8,933.00	9,103.00	Paddock	A	9/7/2023		4	28
Stage 1 - (4,4,4,4,4,4,4) Geo Charges							
9,119.00	9,125.00	Paddock		8/9/2023		6	36
8-9-23 TOE PERFS: 6' GUN/6 SPF/36 HOLES.							

Tubing

Date Ran: 11/21/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	1	2.8750	6.50		32.34	20.00	52.34
Crossover	1	3.5000			0.30	52.34	52.64

Tubing	110	3.5000	9.30	L80	3,565.40	52.64	3,618.04
Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" poly CT string ran in well.							
Crossover	1	4.5000			0.40	3,618.04	3,618.44
Seat Nipple	1	2.8750			1.00	3,618.44	3,619.44
Tubing Sub	1	2.8750			4.00	3,619.44	3,623.44
ESP Sensor	1	4.0000			0.60	3,623.44	3,624.04
Discharge pressure sensor, 1/4" SS CT connected to the Zennith Sensor							
ESP Pump	1	4.0000			0.53	3,624.04	3,624.57
Discharge Pump							
ESP Pump	1	4.0000			23.50	3,624.57	3,648.07
E3000, 96 Stages							
ESP Pump	1	4.0000			23.50	3,648.07	3,671.57
E3000, 96 Stages							
ESP Pump	1	4.0000			13.00	3,671.57	3,684.57
G42, 41 Stages							
ESP Intake	1	4.0000			8.60	3,684.57	3,693.17
Double gas sep/intakes: MODEL 400							
ESP Seal	2	4.0000			12.20	3,693.17	3,705.37
Double seals							
ESP Motor	1	4.5000			34.90	3,705.37	3,740.27
NEW, 286 HP . 450 MODEL							
ESP Sensor	1	4.0000			2.70	3,740.27	3,742.97
NEW, Zenith E7							
Tubing Sub	1	2.3750			2.00	3,742.97	3,744.97
Band 3/8" CT to sub							

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
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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
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 317122

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 317122
	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
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

CONDITIONS

Action 317122

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 317122
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CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	2/27/2024