

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 RT 6/2021
⁴ API Number 30 - 015-47478	⁵ Pool Name Empire; Glorieta - Yeso	
		⁶ Pool Code 96210
⁷ Property Code 329704	⁸ Property Name Hendrix State Com 13 CD	⁹ Well Number 004H

II. ¹⁰ Surface Location

UL or lot no. P	Section 14	Township 17S	Range 28E	Lot Idn I	Feet from the 1312	North/South line South	Feet from the 175	East/West line East	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. IP	Section 13	Township 17S	Range 28E	Lot Idn I	Feet from the 830	North/South line South	Feet from the 20	East/West line East	County Eddy
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 6/14/2021	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 2/12/2021	²² Ready Date 6/12/2021	²³ TD 4469'V/9827'M	²⁴ PBTD 4469'V/9734'M	²⁵ Perforations 4726'-9703'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8"	1246'	650		
8-3/4"	7"	3414'	2090		
8-3/4"	5-1/2"	9827'	2090		
	2-7/8"	3157'			

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

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 Manager

E-mail Address:

David.cain@longfellowenergy.com

Date:

6/30/2021

Phone:

(972) 590-9900

OIL CONSERVATION DIVISION

Approved by:

PATRICIA MARTINEZ

Title:

PETROLEUM SPECIALIST

Approval Date:

7/2/2021

RT EXPIRES 9/12/2021

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

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47478	² Pool Code 96210	³ Pool Name EMPIRE; GLORIETA-YESO
⁴ Property Code 329704	⁵ Property Name HENDRIX STATE COM 13CD	
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁶ Well Number 004H ⁹ Elevation 3636.6

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
P	14	17 S	28 E		1312	SOUTH	175	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
P	13	17 S	28 E		830	SOUTH	20	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <u>David Cain</u> Date: <u>6/30/2021</u> Printed Name: <u>David Cain</u> E-mail Address: <u>david.cain@longfellowenergy.com</u>		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. JUNE 30, 2021 Date of Survey: <u>June 30, 2021</u> Signature and Seal of Professional Surveyor: <u>[Signature]</u> Certificate Number: <u>12797</u>	
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Intent ☐ As Drilled ☒

API # 30-015-47478		
Operator Name: LONGFELLOW ENERGY, LP	Property Name: HENDRIX STATE COM 13CD	Well Number 004H

Kick Off Point (KOP)

UL P	Section 14	Township 17S	Range 28E	Lot	Feet 957	From N/S SOUTH	Feet 608	From E/W EAST	County EDDY
Latitude 32.8309987					Longitude 104.1403737				NAD 83

First Take Point (FTP)

UL M	Section 13	Township 17S	Range 28E	Lot	Feet 832	From N/S SOUTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.8308031					Longitude 104.1380637				NAD 83

Last Take Point (LTP)

UL P	Section 13	Township 17S	Range 28E	Lot	Feet 829	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.8308675					Longitude 104.1217275				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)
Hendrix State Com 13CD
#004H

Wellbore #1

Survey: Survey #1

Standard Survey Report

23 February, 2021





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well #004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Site:	Hendrix State Com 13CD	MD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Well:	#004H	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	Hendrix State Com 13CD		
Site Position:		Northing:	666,311.86 usft
From:	Lat/Long	Easting:	601,212.83 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in
		Latitude:	32.831566
		Longitude:	-104.138400
		Grid Convergence:	0.106 °

Well	#004H		
Well Position	+N/-S	0.00 usft	Northing: 666,500.73 usft
	+E/-W	0.00 usft	Easting: 601,030.35 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.832086
		Longitude:	-104.138993
		Ground Level:	3,636.60 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2020	1/29/2021	6.901
			Dip Angle (°) 60.380
			Field Strength (nT) 47,831.53108886

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
			Direction (°) 89.71

Survey Program	Date 2/23/2021		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
227.00	9,830.00	Survey #1 (Wellbore #1)	MWD+IGRF
			Description OWSG MWD + IGRF or WMM

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
Hendrix13CD #4H: SHL (1312' FSL & 175' FEL)									
227.00	0.44	272.22	227.00	0.03	-0.87	-0.87	0.19	0.19	0.00
317.00	0.22	14.35	317.00	0.21	-1.17	-1.17	0.59	-0.24	113.48
407.00	1.63	233.03	406.99	-0.39	-2.15	-2.16	2.01	1.57	-157.02
496.00	4.09	227.49	495.87	-3.29	-5.50	-5.52	2.78	2.76	-6.22
586.00	6.11	228.54	585.51	-8.63	-11.46	-11.50	2.25	2.24	1.17
676.00	8.04	229.86	674.82	-15.86	-19.86	-19.94	2.15	2.14	1.47
766.00	9.67	227.05	763.74	-25.07	-30.21	-30.33	1.87	1.81	-3.12
856.00	10.42	224.15	852.36	-36.06	-41.41	-41.59	1.00	0.83	-3.22
946.00	10.37	225.82	940.89	-47.55	-52.89	-53.13	0.34	-0.06	1.86



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well #004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Site:	Hendrix State Com 13CD	MD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Well:	#004H	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)
1,035.00	10.07	224.85	1,028.47	-58.65	-64.12	-64.42	0.39	-0.34	-1.09
1,125.00	9.85	225.55	1,117.12	-69.62	-75.16	-75.52	0.28	-0.24	0.78
1,189.00	9.67	224.41	1,180.19	-77.29	-82.83	-83.22	0.41	-0.28	-1.78
1,292.00	8.98	227.15	1,281.83	-88.94	-94.78	-95.23	0.80	-0.67	2.66
1,378.00	10.43	230.51	1,366.60	-98.45	-105.71	-106.21	1.81	1.69	3.91
1,463.00	10.69	232.33	1,450.16	-108.16	-117.89	-118.43	0.50	0.31	2.14
1,552.00	11.23	231.31	1,537.53	-118.62	-131.19	-131.78	0.64	0.61	-1.15
1,638.00	11.71	226.35	1,621.82	-129.88	-144.04	-144.69	1.27	0.56	-5.77
1,724.00	11.50	226.87	1,706.06	-141.77	-156.61	-157.32	0.27	-0.24	0.60
1,812.00	11.25	224.63	1,792.33	-153.87	-169.04	-169.82	0.58	-0.28	-2.55
1,901.00	10.93	229.43	1,879.67	-165.54	-181.55	-182.39	1.10	-0.36	5.39
1,988.00	12.17	228.20	1,964.91	-177.02	-194.65	-195.55	1.45	1.43	-1.41
2,077.00	13.06	232.01	2,051.76	-189.46	-209.57	-210.53	1.37	1.00	4.28
2,164.00	13.24	232.32	2,136.48	-201.60	-225.20	-226.22	0.22	0.21	0.36
2,252.00	13.35	225.99	2,222.13	-214.82	-240.49	-241.57	1.66	0.12	-7.19
2,338.00	14.06	222.35	2,305.68	-229.44	-254.66	-255.82	1.30	0.83	-4.23
2,424.00	12.86	225.00	2,389.32	-243.93	-268.47	-269.70	1.57	-1.40	3.08
2,511.00	12.32	225.19	2,474.22	-257.31	-281.90	-283.20	0.62	-0.62	0.22
2,599.00	10.65	228.39	2,560.46	-269.33	-294.64	-296.00	2.03	-1.90	3.64
2,688.00	10.28	228.14	2,647.98	-280.09	-306.71	-308.12	0.42	-0.42	-0.28
2,775.00	10.77	232.09	2,733.52	-290.27	-318.90	-320.37	1.00	0.56	4.54
2,862.00	11.29	226.51	2,818.91	-301.12	-331.49	-333.01	1.36	0.60	-6.41
2,951.00	11.81	223.79	2,906.11	-313.69	-344.12	-345.70	0.85	0.58	-3.06
3,039.00	11.08	225.25	2,992.36	-326.15	-356.35	-358.00	0.89	-0.83	1.66
3,124.00	10.49	227.10	3,075.86	-337.17	-367.82	-369.53	0.80	-0.69	2.18
3,211.00	11.06	224.77	3,161.32	-348.48	-379.50	-381.26	0.82	0.66	-2.68
3,297.00	11.50	228.06	3,245.66	-360.07	-391.69	-393.51	0.91	0.51	3.83
3,382.00	10.90	225.74	3,329.04	-371.34	-403.75	-405.62	0.88	-0.71	-2.73
3,468.00	11.23	224.14	3,413.45	-383.02	-415.40	-417.34	0.52	0.38	-1.86
3,553.00	10.48	196.56	3,496.98	-396.38	-423.38	-425.38	6.11	-0.88	-32.45
3,641.00	12.69	162.86	3,583.28	-413.31	-422.81	-424.89	7.96	2.51	-38.30
3,727.00	15.38	134.46	3,666.80	-430.35	-411.87	-414.04	8.49	3.13	-33.02
3,816.00	19.13	113.66	3,751.86	-444.49	-390.06	-392.30	8.05	4.21	-23.37
3,903.00	27.59	106.07	3,831.68	-455.81	-357.58	-359.88	10.30	9.72	-8.72
3,990.00	35.24	96.70	3,905.91	-464.33	-313.20	-315.54	10.41	8.79	-10.77
4,079.00	40.49	92.63	3,976.16	-468.65	-258.78	-261.15	6.53	5.90	-4.57
4,166.00	45.98	87.74	4,039.54	-468.72	-199.25	-201.62	7.39	6.31	-5.62
4,253.00	51.09	87.54	4,097.13	-466.03	-134.13	-136.49	5.88	5.87	-0.23
4,339.00	55.92	88.17	4,148.26	-463.45	-65.07	-67.41	5.65	5.62	0.73
4,424.00	60.69	91.44	4,192.92	-463.26	7.22	4.88	6.50	5.61	3.85
4,512.00	63.39	91.23	4,234.17	-465.07	84.92	82.57	3.08	3.07	-0.24
4,597.00	69.56	90.61	4,268.08	-466.31	162.81	160.45	7.29	7.26	-0.73
4,686.00	74.01	89.68	4,295.90	-466.52	247.33	244.96	5.10	5.00	-1.04



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well #004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Site:	Hendrix State Com 13CD	MD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Well:	#004H	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)
4,726.05	76.40	89.58	4,306.12	-466.27	286.05	283.69	5.98	5.98	-0.25
#004H FINAL FTP/ 100' FWL @ 4726.06' MD									
4,732.88	76.81	89.56	4,307.70	-466.22	292.69	290.33	5.98	5.98	-0.25
Hendrix13CD #4H: FTP/ LP (100' FWL)									
4,774.00	79.27	89.46	4,316.22	-465.87	332.91	330.55	5.98	5.98	-0.25
4,861.00	83.26	89.30	4,329.43	-464.94	418.88	416.52	4.59	4.59	-0.18
4,946.00	87.07	88.66	4,336.60	-463.43	503.55	501.20	4.54	4.48	-0.75
5,031.00	89.43	88.34	4,339.19	-461.21	588.47	586.13	2.80	2.78	-0.38
5,116.00	87.77	87.60	4,341.27	-458.20	673.39	671.06	2.14	-1.95	-0.87
5,202.00	88.28	88.59	4,344.23	-455.34	759.29	756.98	1.29	0.59	1.15
5,287.00	88.75	89.22	4,346.43	-453.72	844.25	841.94	0.92	0.55	0.74
5,373.00	87.33	89.09	4,349.38	-452.45	930.18	927.88	1.66	-1.65	-0.15
5,488.00	89.17	89.61	4,352.89	-451.15	1,045.12	1,042.82	1.66	1.60	0.45
5,575.00	88.53	89.57	4,354.63	-450.52	1,132.10	1,129.80	0.74	-0.74	-0.05
5,662.00	87.97	90.04	4,357.29	-450.23	1,219.06	1,216.76	0.84	-0.64	0.54
5,747.00	88.73	90.16	4,359.74	-450.38	1,304.02	1,301.72	0.91	0.89	0.14
5,835.00	88.08	89.93	4,362.19	-450.45	1,391.99	1,389.69	0.78	-0.74	-0.26
5,926.00	88.14	89.37	4,365.19	-449.89	1,482.93	1,480.64	0.62	0.07	-0.62
6,013.00	87.54	89.16	4,368.47	-448.78	1,569.86	1,567.57	0.73	-0.69	-0.24
6,101.00	86.01	89.76	4,373.42	-447.95	1,657.72	1,655.43	1.87	-1.74	0.68
6,189.00	84.82	90.11	4,380.45	-447.85	1,745.44	1,743.15	1.41	-1.35	0.40
6,277.00	84.97	90.39	4,388.28	-448.23	1,833.09	1,830.79	0.36	0.17	0.32
6,365.00	86.49	90.94	4,394.83	-449.25	1,920.83	1,918.53	1.84	1.73	0.62
6,458.00	88.16	90.15	4,399.18	-450.13	2,013.72	2,011.42	1.99	1.80	-0.85
6,548.00	89.85	89.31	4,400.74	-449.71	2,103.70	2,101.40	2.10	1.88	-0.93
6,638.00	90.04	89.34	4,400.82	-448.65	2,193.70	2,191.40	0.21	0.21	0.03
6,728.00	90.35	89.07	4,400.52	-447.40	2,283.69	2,281.39	0.46	0.34	-0.30
6,817.00	90.46	88.87	4,399.89	-445.80	2,372.67	2,370.38	0.26	0.12	-0.22
6,907.00	90.10	88.42	4,399.45	-443.67	2,462.64	2,460.37	0.64	-0.40	-0.50
6,997.00	89.90	89.13	4,399.45	-441.75	2,552.62	2,550.36	0.82	-0.22	0.79
7,088.00	88.61	88.98	4,400.63	-440.25	2,643.60	2,641.34	1.43	-1.42	-0.16
7,177.00	88.67	89.97	4,402.74	-439.43	2,732.57	2,730.31	1.11	0.07	1.11
7,268.00	88.36	91.43	4,405.10	-440.54	2,823.53	2,821.27	1.64	-0.34	1.60
7,357.00	89.14	91.12	4,407.04	-442.52	2,912.49	2,910.21	0.94	0.88	-0.35
7,443.00	89.73	90.97	4,407.89	-444.09	2,998.47	2,996.18	0.71	0.69	-0.17
7,531.00	89.73	90.62	4,408.31	-445.31	3,086.46	3,084.17	0.40	0.00	-0.40
7,620.00	89.65	90.39	4,408.79	-446.10	3,175.45	3,173.16	0.27	-0.09	-0.26
7,707.00	89.28	90.49	4,409.60	-446.76	3,262.45	3,260.15	0.44	-0.43	0.11
7,796.00	88.19	90.37	4,411.57	-447.43	3,351.42	3,349.11	1.23	-1.22	-0.13
7,883.00	87.38	90.08	4,414.93	-447.77	3,438.36	3,436.05	0.99	-0.93	-0.33
7,971.00	87.12	89.49	4,419.15	-447.44	3,526.25	3,523.94	0.73	-0.30	-0.67
8,057.00	87.16	89.04	4,423.44	-446.34	3,612.14	3,609.83	0.52	0.05	-0.52
8,145.00	87.97	89.54	4,427.18	-445.25	3,700.05	3,697.75	1.08	0.92	0.57
8,232.00	88.16	89.28	4,430.12	-444.36	3,787.00	3,784.70	0.37	0.22	-0.30



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well #004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Site:	Hendrix State Com 13CD	MD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Well:	#004H	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)
8,319.00	88.98	88.89	4,432.29	-442.97	3,873.96	3,871.67	1.04	0.94	-0.45
8,405.00	90.24	89.27	4,432.87	-441.59	3,959.94	3,957.66	1.53	1.47	0.44
8,490.00	90.52	89.67	4,432.31	-440.80	4,044.94	4,042.65	0.57	0.33	0.47
8,578.00	90.99	90.72	4,431.15	-441.10	4,132.93	4,130.64	1.31	0.53	1.19
8,665.00	91.56	90.59	4,429.22	-442.09	4,219.90	4,217.61	0.67	0.66	-0.15
8,751.00	91.28	90.48	4,427.08	-442.90	4,305.87	4,303.57	0.35	-0.33	-0.13
8,836.00	90.52	90.82	4,425.75	-443.86	4,390.85	4,388.55	0.98	-0.89	0.40
8,924.00	88.95	89.77	4,426.16	-444.31	4,478.85	4,476.54	2.15	-1.78	-1.19
9,009.00	88.19	89.20	4,428.28	-443.55	4,563.82	4,561.51	1.12	-0.89	-0.67
9,096.00	87.04	88.99	4,431.90	-442.18	4,650.73	4,648.43	1.34	-1.32	-0.24
9,182.00	87.55	89.53	4,435.96	-441.07	4,736.63	4,734.33	0.86	0.59	0.63
9,267.00	87.97	89.05	4,439.28	-440.02	4,821.55	4,819.26	0.75	0.49	-0.56
9,356.00	87.41	89.16	4,442.87	-438.63	4,910.47	4,908.19	0.64	-0.63	0.12
9,441.00	86.85	89.04	4,447.12	-437.29	4,995.35	4,993.08	0.67	-0.66	-0.14
9,528.00	87.38	89.36	4,451.50	-436.08	5,082.23	5,079.96	0.71	0.61	0.37
9,614.00	87.68	89.13	4,455.21	-434.95	5,168.15	5,165.88	0.44	0.35	-0.27
9,700.00	86.65	89.32	4,459.46	-433.79	5,254.03	5,251.77	1.22	-1.20	0.22
9,750.16	85.85	89.27	4,462.74	-433.17	5,304.08	5,301.82	1.60	-1.59	-0.10
#004H FINAL LTP/ 100' FEL @ 9750.16' MD									
9,750.54	85.84	89.27	4,462.77	-433.16	5,304.46	5,302.20	1.60	-1.59	-0.10
Hendrix13CD #4H: LTP (100' FEL)									
9,759.00	85.71	89.26	4,463.39	-433.06	5,312.90	5,310.64	1.60	-1.59	-0.10
9,830.00	85.71	89.26	4,468.70	-432.14	5,383.69	5,381.43	0.00	0.00	0.00
TD: Y= 666068.59 / X= 606414.04 - Final Station Closure Distance= 5401.01 /Direction= 94.59 - Projection to Bit: 9830.00									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
#004H FINAL FTP/ 1C - hit/miss target - Shape - Point	0.00	0.01	4,306.12	-466.27	286.05	666,034.47	601,316.40	32.830803	-104.138065
#004H FINAL LTP/ 10 - survey hits target center - Point	0.00	0.00	4,462.74	-433.17	5,304.08	666,067.57	606,334.43	32.830868	-104.121728
#004H FINAL BIT PR - survey hits target center - Point	0.00	0.00	4,468.70	-432.14	5,383.69	666,068.59	606,414.04	32.830870	-104.121469



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well #004H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Site:	Hendrix State Com 13CD	MD Reference:	RKB = 16' @ 3652.60usft (Akita Rig #524)
Well:	#004H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,830.00	4,468.70	-432.14	5,383.69	TD: Y= 666068.59 / X= 606414.04
9,830.00	4,468.70	-432.14	5,383.69	Final Station Closure Distance= 5401.01 /Direction= 94.59
9,830.00	4,468.70	-432.14	5,383.69	Projection to Bit: 9830.00' MD/ 4468.70' TVD
9,830.00	4,468.70	-432.14	5,383.69	TD: Latitude= 32.830870 / Longitude= -104.121468

Checked By: _____ Approved By: _____ Date: _____



I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **02/12/21** thru **02/23/21** conduct or supervise the taking of a **MWD Survey** from a depth of **227'** to a depth of **9830'**; that the data is true, correct, complete and within the limitations of the tool as set forth by **Wellbenders Directional Services**; that I am authorized and qualified to make this report; that this survey was conducted at the request of **Longfellow Energy** for the **Hendrix State Com 13CD 4H** API No. **30-015-47478** in **Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by **Wellbenders Directional Services**.

Larry Wright

*1125 Beach Airport Rd, Conroe, Texas
77301*

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 33900

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 33900
	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.

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CONDITIONS

Action 33900

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 33900
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	7/2/2021