

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 RT 3/2022
⁴ API Number 30 – 015-48183	⁵ Pool Name Artesia; Glorieta – Yeso (O)	
		⁶ Pool Code 96830
⁷ Property Code 330647	⁸ Property Name Elvis State Com 29A	
		⁹ Well Number 002H

II. ¹⁰ Surface Location

UL or lot no. D	Section 28	Township 17S	Range 28E	Lot Idn	Feet from the 795	North/South Line North	Feet from the 560	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. D	Section 29	Township 17S	Range 28E	Lot Idn	Feet from the 578	North/South line North	Feet from the 22	East/West line West	County Eddy
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 4/1/2022	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 11/17/2021	²² Ready Date 4/1/2022	²³ TD 4043'V/9776'M	²⁴ PBTD 4043'V/9726'M	²⁵ Perforations 4708'-9697'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
12-1/4"		9-5/8"	1250'		670
8-3/4"		7"	4349'		1550
8-3/4"		5-1/2"	9772'		1550

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: 		OIL CONSERVATION DIVISION Approved by: 	
Printed name: David Cain		Title: Engineer	
Title: Regulatory Analyst		Approval Date: 04/01/22	
E-mail Address: David.cain@longfellowenergy.com		RT expires on 07/01/22	
Date: 3/22/2022	Phone: (972) 590-9900		

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 30-015-48183		² Pool Code 96830		³ Pool Name ARTESIA; GLORIETA-YESO (O)	
⁴ Property Code 330647		⁵ Property Name ELVIS STATE COM 29A			⁶ Well Number 002H
⁷ OGRID No. 372210		⁸ Operator Name LONGFELLOW ENERGY, LP			⁹ Elevation 3607.3

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
D	28	17 S	28 E		795	NORTH	560	WEST	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
D	29	17 S	28 E		578	NORTH	22	WEST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code C	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.

NW CORNER SEC. 29 LAT. = 32.8124076°N LONG. = 104.2062852°W NMSP EAST (FT) N = 659309.95 E = 580369.70 N/4 CORNER SEC. 29 LAT. = 32.8123832°N LONG. = 104.1977681°W NMSP EAST (FT) N = 659304.34 E = 582986.39 SECTION CORNER LAT. = 32.8123554°N LONG. = 104.1892526°W NMSP EAST (FT) N = 659297.68 E = 585602.54 N/4 CORNER SEC. 28 LAT. = 32.8125646°N LONG. = 104.1808012°W NMSP EAST (FT) N = 659377.42 E = 588198.94 NE CORNER SEC. 28 LAT. = 32.8127748°N LONG. = 104.1723506°W NMSP EAST (FT) N = 659457.75 E = 590795.03		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: <i>David Cain</i> Date: 3/23/2022 Printed Name: David Cain E-mail Address: david.cain@longfellowenergy.com	
SW CORNER SEC. 29 LAT. = 32.7978599°N LONG. = 104.2064288°W NMSP EAST (FT) N = 654017.25 E = 580331.94 S/4 CORNER SEC. 29 LAT. = 32.7979714°N LONG. = 104.1979346°W NMSP EAST (FT) N = 654061.03 E = 582941.94 SECTION CORNER LAT. = 32.7980800°N LONG. = 104.1894592°W NMSP EAST (FT) N = 654103.97 E = 585547.39 S/4 CORNER SEC. 28 LAT. = 32.7982511°N LONG. = 104.1810192°W NMSP EAST (FT) N = 654169.85 E = 588139.44 SE CORNER SEC. 28 LAT. = 32.7984193°N LONG. = 104.1725489°W NMSP EAST (FT) N = 654234.91 E = 590742.04		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. DECEMBER 7, 2021 Date of Survey Signature and Seal of Professional Surveyor: <i>William F. Jaramila</i> Certificate Number: 12797 PROFESSIONAL SURVEYOR NO. 8723B	

Intent ☐ As Drilled ☒API #
30-015-48183

Operator Name: LONGFELLOW ENERGY, LP	Property Name: ELVIS STATE COM 29A	Well Number 002H
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Kick Off Point (KOP)

UL D	Section 28	Township 17S	Range 28E	Lot	Feet 634	From N/S NORTH	Feet 847	From E/W WEST	County EDDY
Latitude 32.8106792					Longitude 104.1865194			NAD 83	

First Take Point (FTP)

UL A	Section 29	Township 17S	Range 28E	Lot	Feet 585	From N/S NORTH	Feet 92	From E/W EAST	County EDDY
Latitude 32.8107496					Longitude 104.1895779			NAD 83	

Last Take Point (LTP)

UL D	Section 29	Township 17S	Range 28E	Lot	Feet 578	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.8108183					Longitude 104.2059762			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)
ELVIS STATE COM 29A
002H

Wellbore #1

Survey: Survey #1

Standard Survey Report

25 November, 2021





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Well:	002H	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		ELVIS STATE COM 29A			
Site Position:		Northing:	658,525.13 usft	Latitude:	32.810230
From:	Map	Easting:	586,153.61 usft	Longitude:	-104.187463
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.079 °

Well	002H					
Well Position	+N/-S	0.00 usft	Northing:	658,519.23 usft	Latitude:	32.810214
	+E/-W	0.00 usft	Easting:	586,153.69 usft	Longitude:	-104.187462
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,607.30 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/5/2021	6.842	60.330	47,742.67884174

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	270.00	

Survey Program	Date	11/25/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,776.00	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	
222.00	1.10	178.41	221.99	-2.13	0.06	-0.06	0.50	0.50	0.00	
312.00	1.36	100.37	311.97	-3.19	1.13	-1.13	1.74	0.29	-86.71	
401.00	3.30	77.34	400.89	-2.81	4.67	-4.67	2.38	2.18	-25.88	
490.00	5.45	71.10	489.63	-0.88	11.17	-11.17	2.47	2.42	-7.01	
580.00	7.65	65.65	579.04	2.97	20.67	-20.67	2.54	2.44	-6.06	
670.00	8.22	63.10	668.18	8.35	31.87	-31.87	0.74	0.63	-2.83	
758.00	7.78	57.83	755.32	14.37	42.52	-42.52	0.97	-0.50	-5.99	
848.00	7.47	54.58	844.53	21.00	52.45	-52.45	0.59	-0.34	-3.61	
939.00	7.03	58.53	934.80	27.34	62.02	-62.02	0.73	-0.48	4.34	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Well:	002H	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)
1,028.00	6.90	63.98	1,023.14	32.53	71.46	-71.46	0.76	-0.15	6.12
1,117.00	7.08	61.61	1,111.48	37.48	81.09	-81.09	0.38	0.20	-2.66
1,195.00	7.43	55.81	1,188.86	42.60	89.50	-89.50	1.04	0.45	-7.44
1,281.00	7.25	53.43	1,274.15	48.96	98.45	-98.45	0.41	-0.21	-2.77
1,366.00	6.51	49.30	1,358.54	55.30	106.41	-106.41	1.05	-0.87	-4.86
1,454.00	8.31	56.68	1,445.80	62.04	115.51	-115.51	2.31	2.05	8.39
1,541.00	7.69	55.81	1,531.96	68.77	125.58	-125.58	0.73	-0.71	-1.00
1,630.00	6.99	52.82	1,620.23	75.39	134.82	-134.82	0.90	-0.79	-3.36
1,715.00	7.78	56.86	1,704.52	81.66	143.76	-143.76	1.11	0.93	4.75
1,802.00	7.87	57.56	1,790.71	88.07	153.72	-153.72	0.15	0.10	0.80
1,888.00	7.60	56.25	1,875.93	94.39	163.41	-163.41	0.37	-0.31	-1.52
1,975.00	7.25	60.29	1,962.20	100.31	172.96	-172.96	0.72	-0.40	4.64
2,062.00	7.21	59.76	2,048.51	105.78	182.45	-182.45	0.09	-0.05	-0.61
2,147.00	7.08	57.74	2,132.85	111.26	191.49	-191.49	0.33	-0.15	-2.38
2,233.00	7.52	63.80	2,218.15	116.57	201.02	-201.02	1.03	0.51	7.05
2,321.00	7.34	65.39	2,305.41	121.46	211.30	-211.30	0.31	-0.20	1.81
2,409.00	6.99	65.83	2,392.73	125.99	221.29	-221.29	0.40	-0.40	0.50
2,494.00	7.21	53.78	2,477.08	131.26	230.31	-230.31	1.77	0.26	-14.18
2,580.00	7.38	49.30	2,562.38	138.05	238.86	-238.86	0.69	0.20	-5.21
2,666.00	7.60	58.35	2,647.65	144.64	247.88	-247.88	1.39	0.26	10.52
2,751.00	7.82	61.87	2,731.89	150.31	257.77	-257.77	0.61	0.26	4.14
2,841.00	7.52	59.85	2,821.08	156.16	268.26	-268.26	0.45	-0.33	-2.24
2,926.00	7.38	58.88	2,905.36	161.77	277.74	-277.74	0.22	-0.16	-1.14
3,014.00	7.16	58.71	2,992.66	167.54	287.27	-287.27	0.25	-0.25	-0.19
3,103.00	4.09	18.01	3,081.25	173.44	292.99	-292.99	5.45	-3.45	-45.73
3,192.00	5.36	321.85	3,169.99	179.73	291.41	-291.41	5.15	1.43	-63.10
3,278.00	9.36	303.57	3,255.27	186.76	283.09	-283.09	5.33	4.65	-21.26
3,365.00	14.42	298.74	3,340.38	195.89	267.69	-267.69	5.92	5.82	-5.55
3,454.00	20.13	290.47	3,425.34	206.59	243.60	-243.60	6.97	6.42	-9.29
3,542.00	25.14	281.51	3,506.56	215.62	211.07	-211.07	6.90	5.69	-10.18
3,627.00	29.80	275.36	3,581.97	221.20	172.32	-172.32	6.41	5.48	-7.24
3,714.00	34.29	271.93	3,655.71	224.05	126.27	-126.27	5.57	5.16	-3.94
3,801.00	38.20	270.61	3,725.86	225.16	74.86	-74.86	4.58	4.49	-1.52
3,886.00	42.77	269.38	3,790.49	225.13	19.69	-19.69	5.46	5.38	-1.45
3,974.00	47.78	267.97	3,852.40	223.65	-42.79	42.79	5.81	5.69	-1.60
4,063.00	53.67	267.45	3,908.72	220.88	-111.60	111.60	6.63	6.62	-0.58
4,150.00	59.82	267.89	3,956.40	217.94	-184.26	184.26	7.08	7.07	0.51
4,237.00	59.34	267.97	4,000.45	215.23	-259.23	259.23	0.56	-0.55	0.09
4,323.00	59.56	267.45	4,044.16	212.27	-333.24	333.24	0.58	0.26	-0.60
4,411.00	67.08	265.25	4,083.65	207.22	-411.64	411.64	8.83	8.55	-2.50
4,497.00	73.71	268.41	4,112.50	202.78	-492.48	492.48	8.45	7.71	3.67
4,582.00	80.53	272.02	4,131.44	203.13	-575.27	575.27	9.03	8.02	4.25
4,664.87	85.37	272.92	4,141.61	206.68	-657.41	657.41	5.94	5.84	1.09
FINAL FTP: 4664.87' MD/ 4141.61' TVD									



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Well:	002H	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)
4,670.00	85.67	272.98	4,142.01	206.94	-662.52	662.52	5.94	5.84	1.08
4,755.00	91.87	273.07	4,143.83	211.43	-747.34	747.34	7.29	7.29	0.11
4,842.00	91.34	271.58	4,141.40	214.95	-834.23	834.23	1.82	-0.61	-1.71
4,929.00	92.09	270.52	4,138.79	216.55	-921.18	921.18	1.49	0.86	-1.22
5,015.00	93.01	270.35	4,134.97	217.20	-1,007.09	1,007.09	1.09	1.07	-0.20
5,102.00	90.51	270.17	4,132.30	217.59	-1,094.04	1,094.04	2.88	-2.87	-0.21
5,189.00	92.00	270.26	4,130.39	217.92	-1,181.02	1,181.02	1.72	1.71	0.10
5,276.00	91.91	270.35	4,127.42	218.38	-1,267.96	1,267.96	0.15	-0.10	0.10
5,363.00	91.69	270.61	4,124.69	219.11	-1,354.92	1,354.92	0.39	-0.25	0.30
5,450.00	92.79	270.17	4,121.29	219.70	-1,441.85	1,441.85	1.36	1.26	-0.51
5,537.00	92.22	269.91	4,117.49	219.76	-1,528.76	1,528.76	0.72	-0.66	-0.30
5,626.00	92.31	268.59	4,113.97	218.60	-1,617.69	1,617.69	1.49	0.10	-1.48
5,711.00	92.13	268.41	4,110.68	216.38	-1,702.59	1,702.59	0.30	-0.21	-0.21
5,797.00	90.77	269.38	4,108.50	214.72	-1,788.55	1,788.55	1.94	-1.58	1.13
5,882.00	90.81	268.68	4,107.33	213.28	-1,873.53	1,873.53	0.82	0.05	-0.82
5,968.00	90.64	268.24	4,106.24	210.97	-1,959.49	1,959.49	0.55	-0.20	-0.51
6,056.00	90.51	267.45	4,105.36	207.66	-2,047.42	2,047.42	0.91	-0.15	-0.90
6,145.00	90.51	269.12	4,104.56	205.00	-2,136.37	2,136.37	1.88	0.00	1.88
6,234.00	90.73	270.26	4,103.60	204.52	-2,225.37	2,225.37	1.30	0.25	1.28
6,324.00	90.59	270.61	4,102.56	205.20	-2,315.36	2,315.36	0.42	-0.16	0.39
6,410.00	91.47	271.40	4,101.02	206.71	-2,401.33	2,401.33	1.37	1.02	0.92
6,497.00	91.34	271.23	4,098.89	208.70	-2,488.28	2,488.28	0.25	-0.15	-0.20
6,583.00	91.34	270.87	4,096.87	210.28	-2,574.24	2,574.24	0.42	0.00	-0.42
6,668.00	91.16	270.61	4,095.02	211.38	-2,659.21	2,659.21	0.37	-0.21	-0.31
6,754.00	91.12	270.35	4,093.31	212.10	-2,745.19	2,745.19	0.31	-0.05	-0.30
6,839.00	91.21	269.91	4,091.58	212.29	-2,830.18	2,830.18	0.53	0.11	-0.52
6,927.00	90.90	269.38	4,089.96	211.74	-2,918.16	2,918.16	0.70	-0.35	-0.60
7,014.00	90.77	269.20	4,088.69	210.67	-3,005.14	3,005.14	0.26	-0.15	-0.21
7,102.00	90.90	270.26	4,087.41	210.25	-3,093.13	3,093.13	1.21	0.15	1.20
7,189.00	91.03	269.91	4,085.94	210.38	-3,180.12	3,180.12	0.43	0.15	-0.40
7,278.00	90.68	269.47	4,084.62	209.90	-3,269.11	3,269.11	0.63	-0.39	-0.49
7,366.00	90.73	269.12	4,083.53	208.82	-3,357.09	3,357.09	0.40	0.06	-0.40
7,452.00	90.99	269.91	4,082.24	208.09	-3,443.08	3,443.08	0.97	0.30	0.92
7,537.00	91.12	270.08	4,080.68	208.08	-3,528.06	3,528.06	0.25	0.15	0.20
7,624.00	90.64	269.64	4,079.34	207.87	-3,615.05	3,615.05	0.75	-0.55	-0.51
7,713.00	90.68	269.56	4,078.32	207.25	-3,704.05	3,704.05	0.10	0.04	-0.09
7,801.00	91.30	270.61	4,076.80	207.38	-3,792.03	3,792.03	1.39	0.70	1.19
7,887.00	91.56	270.70	4,074.65	208.36	-3,878.00	3,878.00	0.32	0.30	0.10
7,974.00	91.43	270.08	4,072.38	208.95	-3,964.97	3,964.97	0.73	-0.15	-0.71
8,062.00	92.53	271.40	4,069.34	210.09	-4,052.90	4,052.90	1.95	1.25	1.50
8,151.00	92.26	271.23	4,065.62	212.13	-4,141.80	4,141.80	0.36	-0.30	-0.19
8,242.00	92.22	271.05	4,062.06	213.94	-4,232.71	4,232.71	0.20	-0.04	-0.20
8,332.00	92.53	270.70	4,058.33	215.31	-4,322.63	4,322.63	0.52	0.34	-0.39



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Well:	002H	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)
8,421.00	91.21	271.05	4,055.43	216.67	-4,411.57	4,411.57	1.53	-1.48	0.39
8,511.00	91.30	270.96	4,053.46	218.25	-4,501.53	4,501.53	0.14	0.10	-0.10
8,600.00	90.33	270.87	4,052.19	219.67	-4,590.51	4,590.51	1.09	-1.09	-0.10
8,690.00	90.37	270.87	4,051.64	221.04	-4,680.50	4,680.50	0.04	0.04	0.00
8,779.00	90.90	269.38	4,050.66	221.23	-4,769.49	4,769.49	1.78	0.60	-1.67
8,868.00	91.21	269.03	4,049.02	219.99	-4,858.47	4,858.47	0.53	0.35	-0.39
8,957.00	89.76	269.38	4,048.26	218.76	-4,947.45	4,947.45	1.68	-1.63	0.39
9,048.00	89.71	269.03	4,048.69	217.50	-5,038.44	5,038.44	0.39	-0.05	-0.38
9,138.00	90.07	269.03	4,048.86	215.97	-5,128.43	5,128.43	0.40	0.40	0.00
9,227.00	89.89	268.94	4,048.89	214.40	-5,217.41	5,217.41	0.23	-0.20	-0.10
9,315.00	89.93	268.94	4,049.03	212.77	-5,305.40	5,305.40	0.05	0.05	0.00
9,400.00	91.25	269.82	4,048.15	211.85	-5,390.39	5,390.39	1.87	1.55	1.04
9,486.00	91.47	269.64	4,046.11	211.44	-5,476.36	5,476.36	0.33	0.26	-0.21
9,571.00	90.29	270.61	4,044.81	211.63	-5,561.35	5,561.35	1.80	-1.39	1.14
9,660.00	90.37	270.43	4,044.29	212.44	-5,650.34	5,650.34	0.22	0.09	-0.20
9,698.01	90.45	270.21	4,044.02	212.65	-5,688.35	5,688.35	0.63	0.20	-0.59
FINAL LTP: 9698.01' MD/ 4044.02' TVD									
9,704.00	90.46	270.17	4,043.97	212.67	-5,694.34	5,694.34	0.63	0.20	-0.59
9,776.00	90.46	270.17	4,043.40	212.88	-5,766.34	5,766.34	0.00	0.00	0.00
TD: Y= 658732.11 / X= 580387.35 - TD: Latitude= 32.810819 / Longitude= -104.206230 - Projection to Bit: 9776.00' MD/ 40									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
#2H FINAL TD/ BIT PI	0.00	0.00	4,043.40	212.88	-5,766.34	658,732.12	580,387.35	32.810819	-104.206230
- survey hits target center									
- Point									
#2H FINAL LTP: 100'	0.00	0.00	4,044.02	212.65	-5,688.35	658,731.88	580,465.34	32.810818	-104.205976
- survey hits target center									
- Point									
#2H FINAL FTP: 100'	0.00	0.00	4,141.61	206.68	-657.41	658,725.91	585,496.28	32.810784	-104.189601
- survey hits target center									
- Point									

Survey Annotations

	Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
			+N/-S (usft)	+E/-W (usft)	
	4,664.87	4,141.61	206.68	-657.41	FINAL FTP: 4664.87' MD/ 4141.61' TVD
	9,698.01	4,044.02	212.65	-5,688.35	FINAL LTP: 9698.01' MD/ 4044.02' TVD
	9,776.00	4,043.40	212.88	-5,766.34	TD: Y= 658732.11 / X= 580387.35
	9,776.00	4,043.40	212.88	-5,766.34	TD: Latitude= 32.810819 / Longitude= -104.206230
	9,776.00	4,043.40	212.88	-5,766.34	Projection to Bit: 9776.00' MD/ 4043.40' TVD
	9,776.00	4,043.40	212.88	-5,766.34	Final Station Closure Distance= 5770.27 /Direction= 272.11



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3623.30usft (AKITA 524)
Well:	002H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	WBDS_SQL_2

Checked By: _____ Approved By: _____ Date: _____

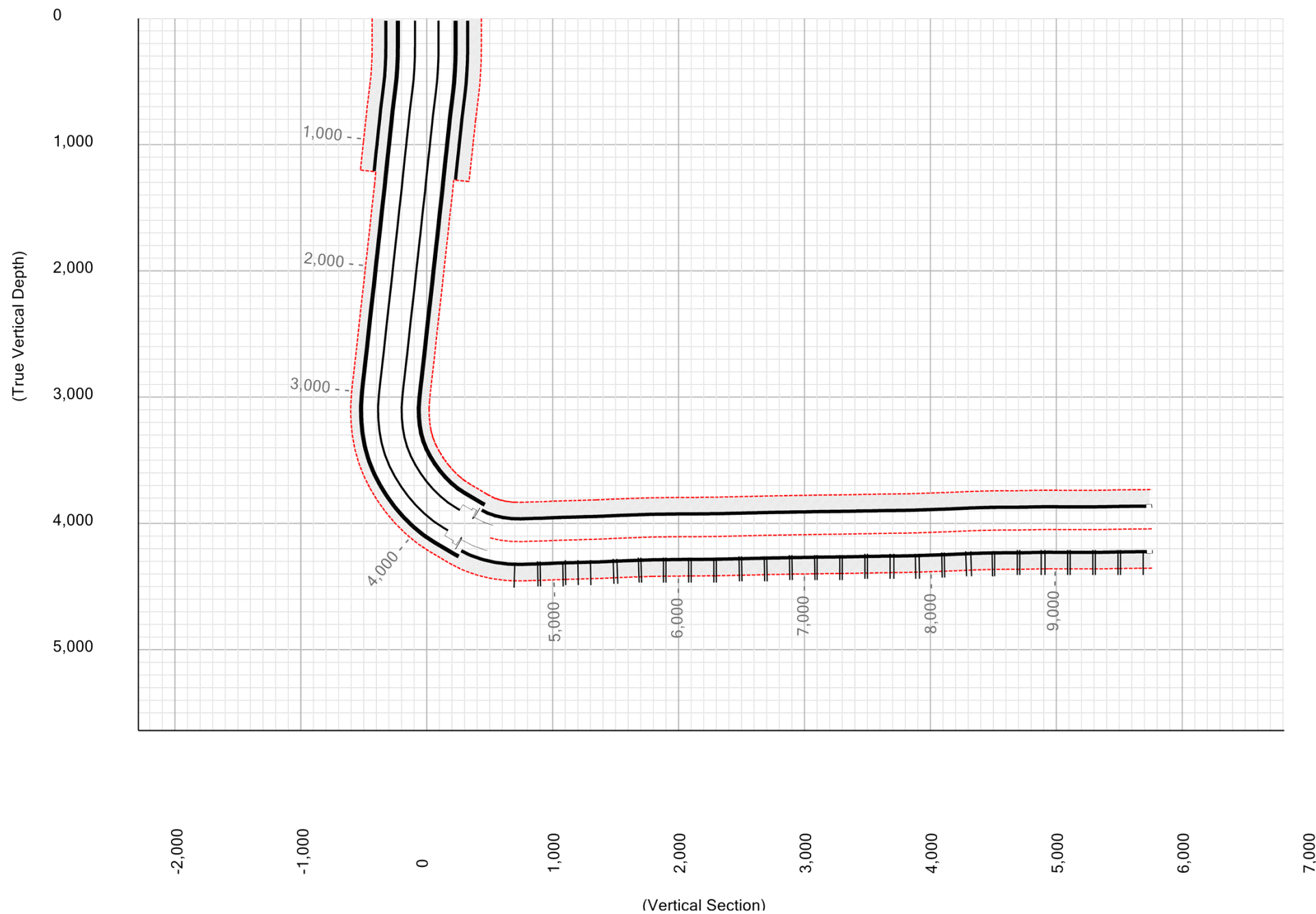


I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/17/21** thru **11/23/21** conduct or supervise the taking of a **MWD Survey** from a depth of **222'** to a depth of **9776'**; that the data is true, correct, complete and within 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 **Elvis State Com 29A 002H** API No. **30-015-48183** 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

Elvis 29A State # 2H, 3/30/2022



Elvis 29A State # 2H API # 30-015-48183			
815' FNL & 560' FWL	GL Elev:	3,607.00	KOP: 3,047
Section 28, Township 17S, Range 28E		EOC:	4,742
County, State: Eddy, NM		Fill Depth:	9,670
Aux ID:		PBTD:	9,726.00
'KB' correction: 19.5; All Depths Corr To: KB		TD:	9,775.00
		BOP:	7 1/16" 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,255.00	11/17/2021
8.7500	1,255.00	9,775.00	11/23/2021

Surface Casing

Date Ran: 11/17/2021

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	29	9.6250	36.00	J55	1,230.50	19.50	1,250.00

Production Casing

Date Ran: 11/23/2021

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	99	7.0000	32.00	L80	4,329.14	19.50	4,348.64
Bow spring every 3rd jt							
Crossover	1	5.5000	20.00	L80	2.45	4,348.64	4,351.09
Casing	14	5.5000	20.00	L80	625.46	4,351.09	4,976.55
Solid body every 2nd jt							
Float Insert	1	5.5000	20.00		1.85	4,976.55	4,978.40
Casing	6	5.5000	20.00	L80	274.77	4,978.40	5,253.17
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	14.50	5,253.17	5,267.67
Casing	95	5.5000	20.00	L80	4,349.80	5,267.67	9,617.47
Solid body every 2nd jt							
Marker Jt	1	5.5000	20.00	L80	16.60	9,617.47	9,634.07
Casing	2	5.5000	20.00	L80	91.50	9,634.07	9,725.57
Float Collar	1	5.5000	20.00		1.20	9,725.57	9,726.77
Casing	1	5.5000	20.00	L80	43.18	9,726.77	9,769.95
Float Shoe	1	5.5000	20.00	L80	2.05	9,769.95	9,772.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,255.00	9.625	12.250	Circ	1 - Lead	520	C	13.50
					2 - Tail	150	C	14.80
Circ 80 bbls of cmt								
4,348.00	9,755.00	5.500	8.750	Circ	1 - Lead	350	C 27/75	12.20
					2 - Tail	1200	C	14.80
0.00	4,348.00	7.000	8.750	Circ				
Circ 55 bbls of cmt								

Zone and Perfs**Comments / Completion Summary**

Stg Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid	Vol
---------	-----	----------	-----	-----	-----	-----	------	------	-----

1	9518	9697	243880	82	6982	126	7263	1182	6004	14873
2	9318	9498	248880	90	6251	116	7383	1350	4500	17842
3	9118	9228	243660	103	6331	126	7383	1329	3000	17842
4	8918	9098	243520	123	6495	132	7205	1401	3000	14805
5	8718	8898	244840	106	6366	127	7337	1372	3000	17842
6	8518	8698	245180	132	6013	137	6750	1765	3000	14724
7	8318	8498	238300	120	6254	128	7183	1543	3000	15140
8	8118	8298	237334	122	6662	130	7137	1597	3000	14978
9	7918	8098	241420	126	6279	137	6891	1567	3000	14630
10	7715	7904	248928	132	5718	142	6886	1694	3000	15824
11	7512	7686	236940	120	6595	135	7072	1518	3000	15289
12	7308	7483	239380	115	6084	115	7259	1850	3000	15466
13	7108	7288	255522	137	6200	144	6979	1804	1500	15751
14	6910	7088	246000	135	5251	147	7062	1748	3000	14830
15	6708	6888	242900	140	5233	145	7229	1536	1500	16853
16	6508	6688	250280	143	4870	145	6305	1717	3000	15056
17	6308	6482	250340	127	6501	136	7183	1503	3000	14908
18	6108	6288	244420	136	6536	144	7171	1556	3000	15553
19	5908	6088	245600	135	5913	139	7606	1673	3000	15181
20	5708	5883	254900	138	6180	142	6684	1894	3000	15122
21	5508	5688	243840	133	5707	139	6534	1802	3000	15591
22	5308	5486	240720	133	6100	138	6494	1966	3000	15472
23	5108	5288	236420	136	5974	142	6406	1971	3000	15223
24	4908	5088	240180	136	6088	140	7078	2284	3000	14917
25	4708	4888	238540	131	6074	137	6765	2250	7500	15310

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,708.00	4,888.00	Upper Blinebry	A	3/13/2022		3	30
Stage 25. 10 clusters [3-3-3-3-3-3-3-3-3]							
4,908.00	5,088.00	Upper Blinebry	A	3/13/2022		3	30
Stage 24. 10 clusters [3-3-3-3-3-3-3-3-3]							
5,108.00	5,208.00	Upper Blinebry	A	3/12/2022		3	30
Stage 23. 10 clusters [3-3-3-3-3-3-3-3-3]							
5,308.00	5,486.00	Upper Blinebry	A	3/12/2022		3	30
Stage 22. 10 clusters [3-3-3-3-3-3-3-3-3]							
5,508.00	5,688.00	Upper Blinebry	A	3/12/2022		3	30
Stage 21. 10 clusters [3-3-3-3-3-3-3-3-3]							
5,708.00	5,883.00	Upper Blinebry	A	3/11/2022		3	30
Stage 20. 10 clusters [3-3-3-3-3-3-3-3-3]							
5,908.00	6,088.00	Upper Blinebry	A	3/11/2022		3	30
Stage 19. 10 clusters [3-3-3-3-3-3-3-3-3]							
6,108.00	6,288.00	Upper Blinebry	A	3/10/2022		3	30
Stage 18. 10 clusters [3-3-3-3-3-3-3-3-3]							
6,308.00	6,490.00	Upper Blinebry	A	3/10/2022		3	30
Stage 17. 10 clusters [3-3-3-3-3-3-3-3-3]							
6,508.00	6,688.00	Upper Blinebry	A	3/10/2022		3	30
Stage 16. 10 clusters [3-3-3-3-3-3-3-3-3]							
6,708.00	6,888.00	Upper Blinebry	A	3/10/2022		3	30
Stage 15. 10 clusters [3-3-3-3-3-3-3-3-3]							
6,910.00	7,088.00	Upper Blinebry	A	3/9/2022		3	30
Stage 14. 10 clusters [3-3-3-3-3-3-3-3-3]							
7,108.00	7,288.00	Upper Blinebry	A	3/9/2022		3	30
Stage 13. 10 clusters [3-3-3-3-3-3-3-3-3]							
7,308.00	7,488.00	Upper Blinebry	A	3/9/2022		3	30
Stage 12. 10 clusters [3-3-3-3-3-3-3-3-3]							
7,512.00	7,686.00	Upper Blinebry	A	3/8/2022		4	28
Stage 11. 7 clusters [4-4-4-4-4-4-4]							
7,715.00	7,889.00	Upper Blinebry	A	3/7/2022		4	28
Stage 10. 7 clusters [4-4-4-4-4-4-4]							
7,918.00	8,098.00	Upper Blinebry	A	3/7/2022		3	30
Stage 9. 10 clusters [3-3-3-3-3-3-3-3-3]							
8,118.00	8,287.00	Upper Blinebry	A	3/7/2022		3	30
Stage 8. 10 clusters [3-3-3-3-3-3-3-3-3]							
8,321.00	8,494.00	Upper Blinebry	A	3/6/2022		3	30
Stage 7. 10 clusters [3-3-3-3-3-3-3-3-3]							
8,518.00	8,698.00	Upper Blinebry	A	3/6/2022		3	30
Stage 6. 10 clusters [3-3-3-3-3-3-3-3-3]							
8,718.00	8,892.00	Upper Blinebry	A	3/5/2022		3	30
Stage 5. 10 clusters [3-3-3-3-3-3-3-3-3]							
8,918.00	9,098.00	Upper Blinebry	A	3/5/2022		3	33
Stage 4. 10 clusters [3-3-3-3-3-3-3-3-6]							
9,118.00	9,298.00	Upper Blinebry	A	3/4/2022		3	33
Stage 3. 10 clusters [3-3-3-3-3-3-3-3-6]							
9,322.00	9,498.00	Upper Blinebry	A	3/4/2022		3	36
Stage 2. 10 clusters [3-3-3-3-3-3-3-3-6-6]							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
9,518.00	9,697.00	Upper Blinebry	A	1/3/2022		3	36
Stage 1. 10 clusters [3-3-3-3-3-3-3-3-6-6]							

Tubing

Date Ran: 3/25/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	128	2.8750	6.50	J55	4,166.89	19.50	4,186.39
cannon clamps installed from 3013'-3991', cable guards installed from 3991'-4186'							
ESP Pump	1	4.0000			23.53	4,186.39	4,209.92
ESP Pump	1	4.0000			23.53	4,209.92	4,233.45
ESP Pump	1	4.0000			13.00	4,233.45	4,246.45
ESP Intake	2	4.0000			8.00	4,246.45	4,254.45
ESP Seal	1	4.0000			6.10	4,254.45	4,260.55
ESP Seal	1	4.0000			6.10	4,260.55	4,266.65
ESP Motor	1	4.5000			35.20	4,266.65	4,301.85
motor 450sp							
ESP Sensor	1	3.7500			2.82	4,301.85	4,304.67
zenith sensor							
Tubing Sub	1	2.3750			2.10	4,304.67	4,306.77
Perf Sub	1	2.8750	6.50	N80	6.00	4,306.77	4,312.77
Packer	1	5.3750			2.00	4,312.77	4,314.77
dual cup packer							
Mesh Rite	1	2.8750			71.91	4,314.77	4,386.68
dual cup mesh rite assembly							
Chemical Screen	1	2.8750			24.60	4,386.68	4,411.28
chem screen							
Chemical Screen	1	2.8750			24.15	4,411.28	4,435.43
chem screen							
Chemical Screen	1	2.8750			24.20	4,435.43	4,459.63
chem screen							
Chemical Screen	1	2.8750			24.55	4,459.63	4,484.18
chem screen							
Chemical Screen	1	2.8750			24.22	4,484.18	4,508.40
chem screen							
Bull Plug	1	2.8750			0.34	4,508.40	4,508.74
bullplug							

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 95151

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 95151
	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
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 95151

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 95151
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
llowe	RT Expires on 07/01/22	4/1/2022