

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 – 015-48142	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 001H

II. ¹⁰ Surface Location

UL or lot no. D	Section 28	Township 17S	Range 28E	Lot Idn	Feet from the 780	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 181	North/South line North	Feet from the 14	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 11/7/2021	²² Ready Date 4/1/2022	²³ TD 3549'V/9368'M	²⁴ PBSD 3550'V/9314'M	²⁵ Perforations 4255'-9283'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8"	1238'	735		
8-3/4"	7"	3948'	2010		
8-3/4"	5-1/2"	9363'	2010		

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: PATRICIA MARTINEZ	
Printed name: David Cain		Title: PETROLEUM SPECIALIST	
Title: Regulatory Analyst		Approval Date: 4/1/2022	
E-mail Address: David.cain@longfellowenergy.com		RT EXPIRES 7/1/2022	
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 30-015-48142	² Pool Code 96830	³ Pool Name ARTESIA; GLORIETA-YESO (O)
⁴ Property Code 330647	⁵ Property Name ELVIS STATE COM 29A	
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁶ Well Number 001H ⁹ Elevation 3606.8

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		780	NORTH	560	WEST	EDDY

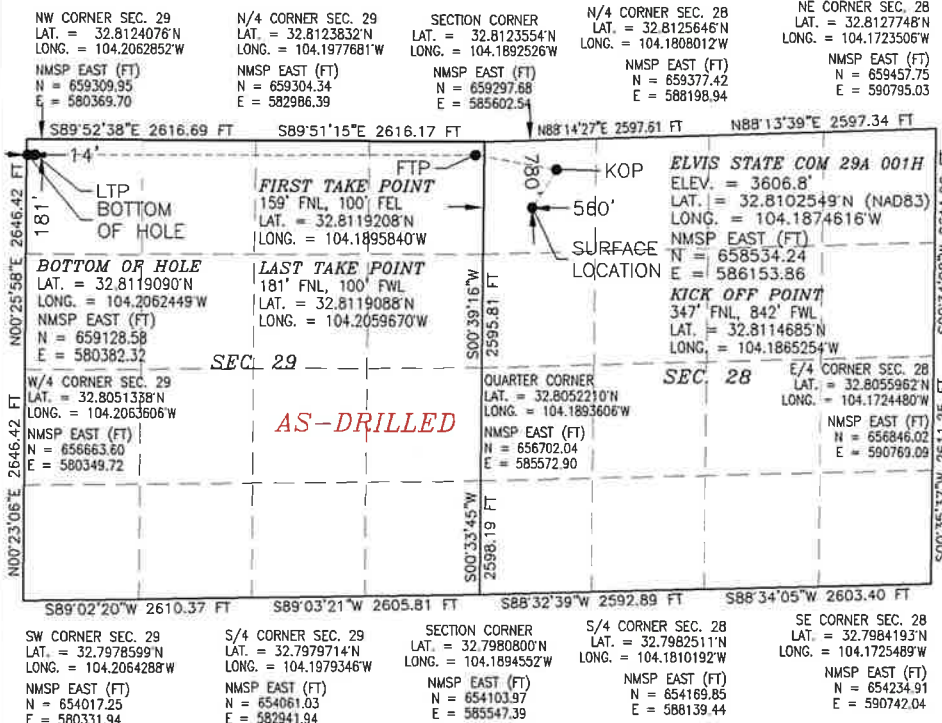
¹¹ Bottom Hole Location If Different From Surface

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		181	NORTH	14	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.

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. <i>[Signature]</i> 3/23/2022 Signature Date David Cain 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. DECEMBER 7, 2021 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor Certificate Number: 12797 12797 NO. 8722B	
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Intent ☐ As Drilled ☒API #
30-015-48142

Operator Name: LONGFELLOW ENERGY, LP	Property Name: ELVIS STATE COM 29A	Well Number 001H
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Kick Off Point (KOP)

UL D	Section 28	Township 17S	Range 28E	Lot	Feet 347	From N/S NORTH	Feet 842	From E/W WEST	County EDDY
Latitude 32.8114685					Longitude 104.1865254			NAD 83	

First Take Point (FTP)

UL A	Section 29	Township 17S	Range 28E	Lot	Feet 159	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.8119208					Longitude 104.1895840			NAD 83	

Last Take Point (LTP)

UL D	Section 29	Township 17S	Range 28E	Lot	Feet 181	From N/S NORTH	Feet 100	From E/W WEST	County EDDY
Latitude 32.8119088					Longitude 104.2059670			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
001H

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 November, 2021





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Well:	001H	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	001H					
Well Position	+N/-S	0.00 usft	Northing:	658,534.24 usft	Latitude:	32.810255
	+E/-W	0.00 usft	Easting:	586,153.86 usft	Longitude:	-104.187462
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,606.80 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	10/5/2021	6.842	60.331	47,742.70684463

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	11/15/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
130.00	9,368.00	Survey #1 (Wellbore #1)	MWD+IGRF	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	
130.00	0.92	77.43	129.99	0.23	1.02	-1.02	0.71	0.71	0.00	
220.00	1.10	342.07	219.99	1.21	1.46	-1.46	1.66	0.20	-105.96	
310.00	2.73	22.41	309.94	4.01	2.01	-2.01	2.25	1.81	44.82	
400.00	3.56	23.37	399.80	8.56	3.93	-3.93	0.92	0.92	1.07	
488.00	3.52	36.47	487.63	13.24	6.62	-6.62	0.92	-0.05	14.89	
578.00	3.34	40.60	577.47	17.45	9.97	-9.97	0.34	-0.20	4.59	
668.00	5.01	44.20	667.23	22.26	14.42	-14.42	1.88	1.86	4.00	
756.00	7.91	42.45	754.66	29.48	21.19	-21.19	3.30	3.30	-1.99	
846.00	11.43	39.55	843.37	40.93	31.05	-31.05	3.95	3.91	-3.22	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Well:	001H	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)
937.00	14.11	37.17	932.11	56.73	43.49	-43.49	3.00	2.95	-2.62
1,026.00	16.62	34.62	1,017.92	75.85	57.28	-57.28	2.92	2.82	-2.87
1,115.00	16.84	33.83	1,103.16	97.03	71.69	-71.69	0.36	0.25	-0.89
1,183.00	16.79	33.13	1,168.25	113.44	82.54	-82.54	0.31	-0.07	-1.03
1,281.00	15.87	34.27	1,262.30	136.37	97.82	-97.82	0.99	-0.94	1.16
1,367.00	15.16	33.22	1,345.16	155.49	110.60	-110.60	0.89	-0.83	-1.22
1,454.00	17.41	27.07	1,428.67	176.60	122.76	-122.76	3.26	2.59	-7.07
1,541.00	16.66	29.70	1,511.86	199.02	134.86	-134.86	1.24	-0.86	3.02
1,630.00	16.75	34.54	1,597.10	220.67	148.46	-148.46	1.57	0.10	5.44
1,716.00	16.13	34.71	1,679.59	240.70	162.29	-162.29	0.72	-0.72	0.20
1,803.00	18.42	34.36	1,762.66	261.98	176.93	-176.93	2.63	2.63	-0.40
1,888.00	17.80	34.18	1,843.45	283.82	191.81	-191.81	0.73	-0.73	-0.21
1,975.00	17.58	33.75	1,926.33	305.74	206.58	-206.58	0.29	-0.25	-0.49
2,062.00	16.26	31.99	2,009.56	327.00	220.33	-220.33	1.63	-1.52	-2.02
2,148.00	15.69	30.93	2,092.24	347.19	232.68	-232.68	0.74	-0.66	-1.23
2,233.00	15.69	33.22	2,174.08	366.66	244.89	-244.89	0.73	0.00	2.69
2,322.00	15.87	34.36	2,259.72	386.77	258.35	-258.35	0.40	0.20	1.28
2,410.00	15.52	34.62	2,344.44	406.39	271.83	-271.83	0.41	-0.40	0.30
2,495.00	14.73	22.50	2,426.52	425.74	282.43	-282.43	3.83	-0.93	-14.26
2,581.00	14.64	9.14	2,509.73	446.58	288.34	-288.34	3.93	-0.10	-15.53
2,666.00	14.73	9.05	2,591.96	467.86	291.75	-291.75	0.11	0.11	-0.11
2,752.00	13.98	350.15	2,675.32	488.90	291.69	-291.69	5.49	-0.87	-21.98
2,841.00	14.07	332.57	2,761.70	509.10	284.86	-284.86	4.77	0.10	-19.75
2,927.00	16.09	313.15	2,844.79	526.54	271.34	-271.34	6.29	2.35	-22.58
3,014.00	17.49	294.52	2,928.14	540.23	250.64	-250.64	6.36	1.61	-21.41
3,103.00	21.10	282.74	3,012.16	549.32	222.82	-222.82	5.95	4.06	-13.24
3,192.00	25.93	280.01	3,093.75	556.23	188.01	-188.01	5.56	5.43	-3.07
3,278.00	31.21	279.40	3,169.25	563.15	147.49	-147.49	6.15	6.14	-0.71
3,366.00	37.14	278.70	3,242.02	570.90	98.69	-98.69	6.75	6.74	-0.80
3,455.00	42.86	279.93	3,310.17	580.19	42.27	-42.27	6.49	6.43	1.38
3,542.00	48.79	277.20	3,370.78	589.40	-19.41	19.41	7.18	6.82	-3.14
3,628.00	54.29	274.83	3,424.25	596.40	-86.35	86.35	6.75	6.40	-2.76
3,715.00	59.47	273.42	3,471.77	601.61	-159.00	159.00	6.11	5.95	-1.62
3,801.00	59.91	273.51	3,515.17	606.10	-233.11	233.11	0.52	0.51	0.10
3,887.00	60.40	273.51	3,557.97	610.67	-307.56	307.56	0.57	0.57	0.00
3,974.00	67.91	271.05	3,595.88	613.73	-385.74	385.74	9.00	8.63	-2.83
4,063.00	75.38	269.03	3,623.88	613.75	-470.14	470.14	8.66	8.39	-2.27
4,150.00	83.78	267.10	3,639.61	610.85	-555.58	555.58	9.90	9.66	-2.22
4,237.00	91.34	266.13	3,643.31	605.72	-642.28	642.28	8.76	8.69	-1.11
4,247.63	91.35	266.37	3,643.06	605.02	-652.89	652.89	2.25	0.11	2.24
FINAL FTP: 4247.63' MD/ 3643.06' TVD									
4,323.00	91.43	268.06	3,641.23	601.36	-728.14	728.14	2.25	0.10	2.24
4,412.00	91.16	269.82	3,639.22	599.71	-817.10	817.10	2.00	-0.30	1.98
4,497.00	91.12	270.17	3,637.53	599.71	-902.09	902.09	0.41	-0.05	0.41



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Well:	001H	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)
4,582.00	91.47	269.73	3,635.61	599.63	-987.06	987.06	0.66	0.41	-0.52
4,669.00	91.74	269.82	3,633.17	599.29	-1,074.03	1,074.03	0.33	0.31	0.10
4,755.00	90.86	269.12	3,631.22	598.50	-1,160.00	1,160.00	1.31	-1.02	-0.81
4,842.00	90.90	268.68	3,629.88	596.83	-1,246.97	1,246.97	0.51	0.05	-0.51
4,929.00	91.43	268.33	3,628.11	594.56	-1,333.93	1,333.93	0.73	0.61	-0.40
5,015.00	90.99	269.20	3,626.30	592.70	-1,419.89	1,419.89	1.13	-0.51	1.01
5,102.00	90.90	269.82	3,624.86	591.96	-1,506.87	1,506.87	0.72	-0.10	0.71
5,189.00	91.47	269.20	3,623.06	591.22	-1,593.85	1,593.85	0.97	0.66	-0.71
5,275.00	92.04	268.59	3,620.43	589.56	-1,679.79	1,679.79	0.97	0.66	-0.71
5,362.00	91.08	268.59	3,618.06	587.42	-1,766.73	1,766.73	1.10	-1.10	0.00
5,449.00	90.07	270.17	3,617.19	586.48	-1,853.72	1,853.72	2.16	-1.16	1.82
5,536.00	90.55	269.91	3,616.72	586.54	-1,940.72	1,940.72	0.63	0.55	-0.30
5,625.00	89.76	271.67	3,616.48	587.77	-2,029.70	2,029.70	2.17	-0.89	1.98
5,711.00	90.42	271.84	3,616.34	590.40	-2,115.66	2,115.66	0.79	0.77	0.20
5,797.00	90.90	271.40	3,615.35	592.83	-2,201.62	2,201.62	0.76	0.56	-0.51
5,882.00	91.38	271.23	3,613.66	594.78	-2,286.58	2,286.58	0.60	0.56	-0.20
5,968.00	91.91	270.96	3,611.19	596.42	-2,372.53	2,372.53	0.69	0.62	-0.31
6,055.00	91.03	271.05	3,608.96	597.95	-2,459.49	2,459.49	1.02	-1.01	0.10
6,144.00	91.43	270.35	3,607.05	599.04	-2,548.46	2,548.46	0.91	0.45	-0.79
6,233.00	91.91	269.91	3,604.45	599.24	-2,637.42	2,637.42	0.73	0.54	-0.49
6,324.00	90.46	270.08	3,602.57	599.23	-2,728.40	2,728.40	1.60	-1.59	0.19
6,410.00	90.86	269.73	3,601.58	599.09	-2,814.39	2,814.39	0.62	0.47	-0.41
6,497.00	91.47	269.73	3,599.81	598.68	-2,901.37	2,901.37	0.70	0.70	0.00
6,582.00	92.26	270.00	3,597.05	598.48	-2,986.33	2,986.33	0.98	0.93	0.32
6,668.00	91.21	270.35	3,594.44	598.74	-3,072.29	3,072.29	1.29	-1.22	0.41
6,753.00	91.03	270.17	3,592.78	599.13	-3,157.27	3,157.27	0.30	-0.21	-0.21
6,841.00	91.47	270.00	3,590.86	599.26	-3,245.25	3,245.25	0.54	0.50	-0.19
6,928.00	91.08	269.91	3,588.93	599.19	-3,332.23	3,332.23	0.46	-0.45	-0.10
7,016.00	91.34	269.47	3,587.07	598.71	-3,420.21	3,420.21	0.58	0.30	-0.50
7,103.00	91.69	269.03	3,584.77	597.57	-3,507.17	3,507.17	0.65	0.40	-0.51
7,192.00	90.99	269.38	3,582.69	596.34	-3,596.13	3,596.13	0.88	-0.79	0.39
7,280.00	91.16	269.03	3,581.03	595.12	-3,684.11	3,684.11	0.44	0.19	-0.40
7,366.00	90.55	269.12	3,579.75	593.73	-3,770.09	3,770.09	0.72	-0.71	0.10
7,451.00	90.11	269.82	3,579.26	592.94	-3,855.08	3,855.08	0.97	-0.52	0.82
7,499.00	90.68	270.08	3,578.93	592.90	-3,903.08	3,903.08	1.31	1.19	0.54
7,588.00	92.04	270.17	3,576.82	593.10	-3,992.05	3,992.05	1.53	1.53	0.10
7,679.00	91.12	270.35	3,574.31	593.51	-4,083.02	4,083.02	1.03	-1.01	0.20
7,769.00	90.29	270.43	3,573.20	594.12	-4,173.01	4,173.01	0.93	-0.92	0.09
7,858.00	91.30	270.52	3,571.97	594.86	-4,262.00	4,262.00	1.14	1.13	0.10
7,944.00	91.03	270.52	3,570.22	595.64	-4,347.97	4,347.97	0.31	-0.31	0.00
8,031.00	90.11	271.31	3,569.35	597.03	-4,434.96	4,434.96	1.39	-1.06	0.91
8,119.00	90.51	271.67	3,568.88	599.32	-4,522.93	4,522.93	0.61	0.45	0.41
8,206.00	91.16	270.70	3,567.61	601.12	-4,609.90	4,609.90	1.34	0.75	-1.11



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 001H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Site:	ELVIS STATE COM 29A	MD Reference:	RKB = 16' @ 3622.80usft (AKITA 524)
Well:	001H	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)	
8,293.00	92.44	271.14	3,564.88	602.51	-4,696.84	4,696.84	1.56	1.47	0.51	
8,382.00	91.38	270.79	3,561.91	604.01	-4,785.78	4,785.78	1.25	-1.19	-0.39	
8,470.00	90.99	269.20	3,560.09	604.00	-4,873.75	4,873.75	1.86	-0.44	-1.81	
8,557.00	89.98	268.85	3,559.35	602.52	-4,960.74	4,960.74	1.23	-1.16	-0.40	
8,642.00	90.59	268.59	3,558.93	600.62	-5,045.71	5,045.71	0.78	0.72	-0.31	
8,729.00	91.91	269.03	3,557.03	598.82	-5,132.67	5,132.67	1.60	1.52	0.51	
8,818.00	90.37	269.29	3,555.26	597.51	-5,221.64	5,221.64	1.75	-1.73	0.29	
8,906.00	89.23	269.47	3,555.57	596.56	-5,309.64	5,309.64	1.31	-1.30	0.20	
8,992.00	90.24	269.56	3,555.97	595.83	-5,395.63	5,395.63	1.18	1.17	0.10	
9,079.00	91.30	269.47	3,554.80	595.10	-5,482.62	5,482.62	1.22	1.22	-0.10	
9,167.00	92.26	269.91	3,552.07	594.62	-5,570.57	5,570.57	1.20	1.09	0.50	
9,256.00	90.11	269.82	3,550.22	594.41	-5,659.55	5,659.55	2.42	-2.42	-0.10	
9,282.62	90.56	269.93	3,550.07	594.35	-5,686.17	5,686.17	1.75	1.70	0.41	
FINAL LTP: 9282.62' MD/ 3550.07' TVD										
9,300.00	90.86	270.00	3,549.85	594.34	-5,703.55	5,703.55	1.75	1.70	0.41	
9,368.00	90.86	270.00	3,548.83	594.34	-5,771.54	5,771.54	0.00	0.00	0.00	
Final Station Closure Distance= 5802.06 /Direction= 275.88 - Projection to Bit: 9368.00' MD/ 3548.83' TVD - TD: Latitude:										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
1H FINAL TD/ BIT PR - hit/miss target - Shape - Point	0.00	0.00	3,548.83	594.34	-5,771.54	659,128.59	580,382.32	32.811909	-104.206245	
1H FINAL LTP: 100' F - survey hits target center - Point	0.00	0.00	3,550.07	594.35	-5,686.17	659,128.60	580,467.69	32.811909	-104.205967	
1H FINAL FTP: 100' F - survey hits target center - Point	0.00	0.00	3,643.06	605.02	-652.89	659,139.27	585,500.97	32.811920	-104.189584	

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
4,247.63	3,643.06	605.02	-652.89	FINAL FTP: 4247.63' MD/ 3643.06' TVD	
9,282.62	3,550.07	594.35	-5,686.17	FINAL LTP: 9282.62' MD/ 3550.07' TVD	
9,368.00	3,548.83	594.34	-5,771.54	Final Station Closure Distance= 5802.06 /Direction= 275.88	
9,368.00	3,548.83	594.34	-5,771.54	Projection to Bit: 9368.00' MD/ 3548.83' TVD	
9,368.00	3,548.83	594.34	-5,771.54	TD: Latitude= 32.811909 / Longitude= -104.206245	
9,368.00	3,548.83	594.34	-5,771.54	TD: Y= 659128.58 / X= 580382.32	

Checked By: _____	Approved By: _____	Date: _____
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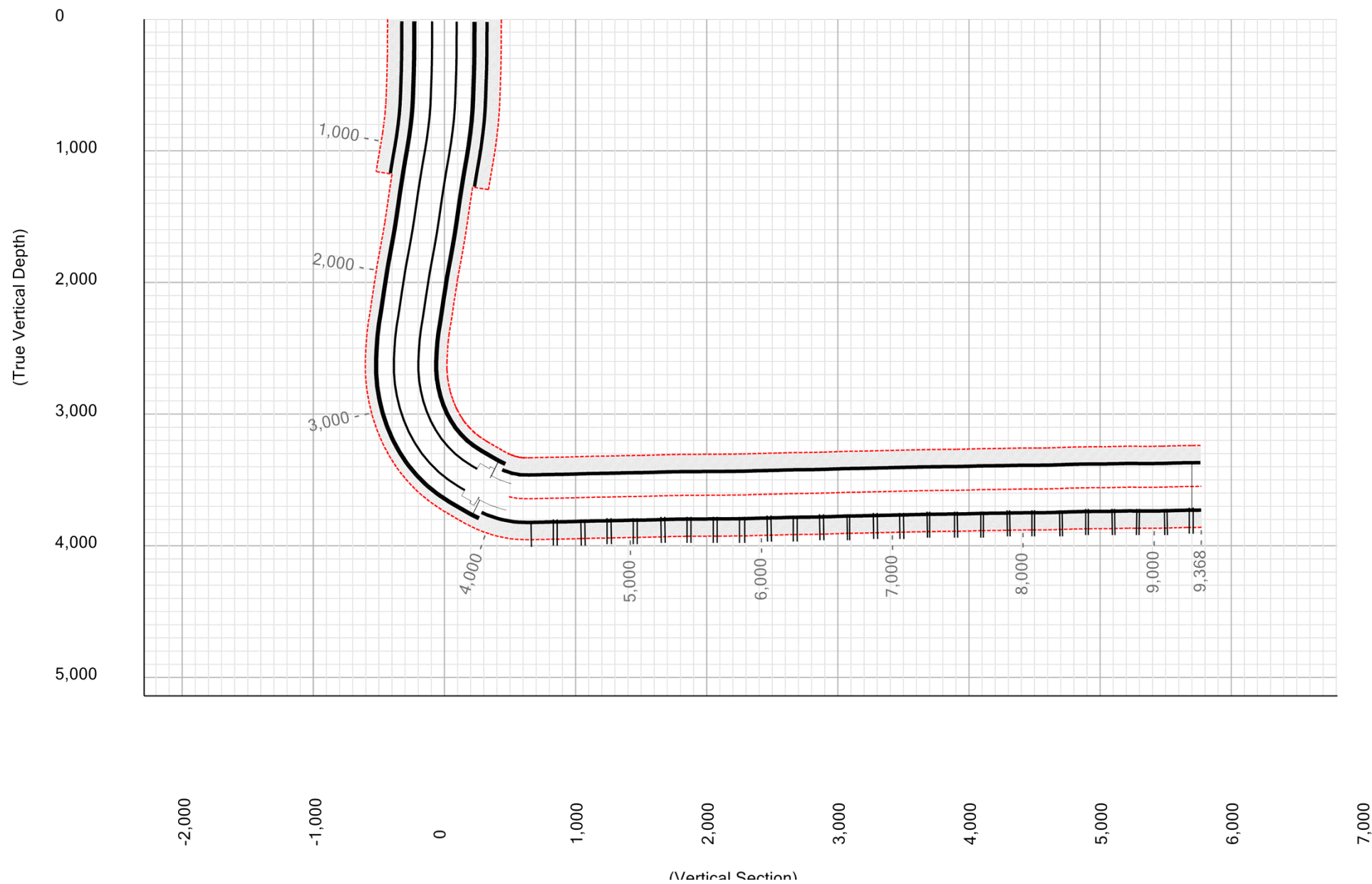


I **Larry Wright**, certify that I am employed by **Wellbenders Directional Services**. That I did on the day(s) of **11/07/21** thru **11/15/21** conduct or supervise the taking of a **MWD Survey** from a depth of **130'** to a depth of **9368'**; that the data is true, correct, complete and within 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 001H** API No. **30-015-48142** 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 # 1H, 3/30/2022



Elvis 29A State # 1H API # 30-015-48142			
750' FNL & 560' FWL	GL Elev:	3,606.00	KOP: 2,666
Section 28, Township 17S, Range 28E			EOC: 4,237
County, State: Eddy, NM			Fill Depth: 9,247
Aux ID:			PBTD: 9,314.00
'KB' correction: 19.5; All Depths Corr To: KB			TD: 9,363.00
			BOP: 7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,245.00	11/7/2021
8.7500	1,245.00	9,368.00	11/12/2021

Surface Casing

Date Ran: 11/7/2021

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	29	9.6250	36.00	J55	1,218.50	19.50	1,238.00

Production Casing

Date Ran: 11/12/2021

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	90	7.0000	32.00	L80	3,928.46	19.50	3,947.96
Bow spring every 3rd jt							
Crossover	1	5.5000	20.00	L80	2.65	3,947.96	3,950.61
Casing	11	5.5000	20.00	L80	501.67	3,950.61	4,452.28

Spiral solid body every 2nd jt

Float Insert	1	5.5000	20.00		1.85	4,452.28	4,454.13
Casing	12	5.5000	20.00	L80	542.06	4,454.13	4,996.19

Spiral solid body every 2nd jt

Marker Jt	1	5.5000	20.00	L80	20.37	4,996.19	5,016.56
Casing	91	5.5000	20.00	L80	4,139.88	5,016.56	9,156.44

Spiral solid body every 2nd jt

Marker Jt	1	5.5000	20.00	L80	20.27	9,156.44	9,176.71
Casing	3	5.5000	20.00	L80	137.18	9,176.71	9,313.89
Float Collar	1				1.20	9,313.89	9,315.09
Casing	1	5.5000	20.00	L80	45.91	9,315.09	9,361.00
Float Shoe	1	5.5000	20.00	L80	2.00	9,361.00	9,363.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,238.00	9.625	12.250	Circ	1 - Lead	570	C	13.50
					2 - Tail	165	C	14.80

Circ 80 bbls to surf

3,948.00	9,368.00	5.500	8.750	Circ	1 - Lead	240	C 35/65	12.20
					2 - Tail	1770	C	14.80

0.00	3,948.00	7.000	8.750	Circ				
Circ 161 bbls to surf								

Zone and Perfs**Comments / Completion Summary**

Stg Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid	Vol
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1	9103	9283	245,720	95	6607	118	7324	1519	3000	14880
2	8903	9083	241,900	104	6458	124	7273	1561	4500	15718
3	8703	8883	247,840	106	6425	124	7299	1533	3000	16195
4	8502	8671	241,060	108	6431	116	7189	1937	3000	14551
5	8306	8483	277,760	116	6345	131	7019	1642	3000	15532
6	8103	8283	241,940	133	6477	139	7015	1838	1500	14787
7	7903	8083	241,980	110	6378	127	7196	2330	4504	15248
8	7703	7881	239,500	126	6577	129	7169	2176	3000	15258
9	7503	7683	239,300	124	6459	129	6922	2217	3000	14854
10	7300	7489	245,360	115	6576	115	7259	2650	3000	15444
11	7097	7271	240,690	121	5983	131	6981	2996	3000	15587
12	6897	7068	243,400	108	6703	123	7405	2432	1500	15990
13	6691	6865	246,601	131	5924	140	7193	3513	3000	17193
14	6488	6662	255,522	135	5770	144	6313	2565	3000	14641
15	6285	6459	242,100	141	5408	146	6479	2100	3000	15730
16	6082	6255	249,160	131	6369	139	7280	1773	3000	15133
17	5879	6053	247,920	134	6335	138	7314	2095	3000	14889
18	5676	5850	246,930	128	6230	136	6795	2016	3000	15649
19	5473	5647	241,400	134	5817	138	7229	2105	3000	15131
20	5270	5444	202,800	136	6121	141	6838	2085	3000	14661
21	5067	5241	246,930	136	6133	142	6705	1964	3000	16375
22	4864	5038	243,100	134	6244	140	6884	2011	3000	15177
23	4661	4835	236,420	137	5974	144	7055	2137	3000	15465
24	4458	4632	240,180	133	6375	141	7004	2516	3000	14826
25	4255	4429	236,800	110	6329	121	7481	2124	7500	15675

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,255.00	4,429.00	YESO	A	3/13/2022		4	26
Stage 25. 7 clusters [4-4-4-4-3-3]							
4,458.00	4,628.00	YESO	A	3/13/2022		4	28
Stage 24. 7 clusters [4-4-4-4-4-4]							
4,661.00	4,835.00	YESO	A	3/12/2022		4	28
Stage 23. 7 clusters [4-4-4-4-4-4]							
4,864.00	5,038.00	YESO	A	3/12/2022		4	28
Stage 22. 7 clusters [4-4-4-4-4-4]							
5,067.00	5,241.00	YESO	A	3/12/2022		4	28
Stage 21. 7 clusters [4-4-4-4-4-4]							
5,270.00	5,444.00	YESO	A	3/11/2022		4	28
Stage 20. 10 clusters [4-4-4-4-4-4-4]							
5,473.00	5,647.00	YESO	A	3/11/2022		4	28
Stage 19. 7 clusters [4-4-4-4-4-4-4]							
5,676.00	5,850.00	YESO	A	3/10/2022		4	28
Stage 18. 7 clusters [4-4-4-4-4-4-4]							
5,879.00	6,053.00	YESO	A	3/10/2022		4	28
Stage 17. 7 clusters [4-4-4-4-4-4-4]							
6,082.00	6,255.00	YESO	A	3/10/2022		4	28
Stage 16. 7 clusters [4-4-4-4-4-4-4]							
6,285.00	6,459.00	YESO	A	3/10/2022		4	28
Stage 15. 10 clusters [4-4-4-4-4-4-4]							
6,488.00	6,662.00	YESO	A	3/9/2022		4	28
Stage 14. 10 clusters [4-4-4-4-4-4-4]							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
6,691.00	6,865.00	YESO	A	3/9/2022		4	28
Stage 13. 7 clusters [4-4-4-4-4-4-4]							
6,897.00	7,068.00	YESO	A	3/8/2022		4	28
Stage 12. 7 clusters [4-4-4-4-4-4-4]							
7,097.00	7,271.00	YESO	A	3/8/2022		4	28
Stage 11. 7 clusters [4-4-4-4-4-4-4]							
7,300.00	7,489.00	YESO	A	3/7/2022		4	28
Stage 10. 7 clusters [4-4-4-4-4-4-4]							
7,503.00	7,683.00	YESO	A	3/7/2022		3	30
Stage 9. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
7,703.00	7,881.00	YESO	A	3/7/2022		3	30
Stage 8. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
7,903.00	8,083.00	YESO	A	3/7/2022		3	30
Stage 7. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
8,103.00	8,283.00	YESO	A	3/6/2022		3	30
Stage 6. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
8,303.00	8,483.00	YESO	A	3/5/2022		3	30
Stage 5. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
8,503.00	8,683.00	YESO	A	3/5/2022		3	33
Stage 4. 10 clusters [3-3-3-3-3-3-3-3-3-3]							
8,702.00	8,883.00	YESO	A	3/5/2022		3	33
Stage 3. 10 clusters [3-3-3-3-3-3-3-3-3-6]							
8,903.00	9,083.00	YESO	A	3/4/2022		3	36
Stage 2. 10 clusters [3-3-3-3-3-3-3-3-3-6]							
9,103.00	9,283.00	YESO	A	3/3/2022		3	36
Stage 1. 10 clusters [3-3-3-3-3-3-3-3-3-6]							
9,305.00	9,311.00	YESO	TA	1/5/2022	3/4/2022	6	36
TOE PREP.							

Wellbore Plugs and Junk

Top	Bottom	Type	Diameter	Solid	Date
9,295.00	9,296.00	CBP	5.500	Yes	3/3/2022

Tubing

Date Ran: 3/24/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	115	2.8750	6.50	J55	3,745.94	19.50	3,765.44
Band 3 per jt. First 5 above pump are every 3'. Jts 6 - 33 have tubing collar protectors. 3/8" cap ran in well.							
ESP Pump	1	4.0000			0.50	3,765.44	3,765.94
Discharge Pump							
ESP Pump	1	4.0000			23.53	3,765.94	3,789.47
E3000, 96 Stages							
ESP Pump	1	4.0000			23.53	3,789.47	3,813.00
E3000, 96 Stages							
ESP Pump	1	4.0000			13.00	3,813.00	3,826.00
G42, 41 Stages							
ESP Intake	2	4.0000			8.20	3,826.00	3,834.20
Double gas sep/intakes: 400GM2THVV							

ESP Seal	2	4.0000			12.20	3,834.20	3,846.40
Double seals							
ESP Motor	1	4.5000			35.20	3,846.40	3,881.60
Used 286 HP from Hendrix. 450SP							
ESP Sensor	1	4.0000			2.82	3,881.60	3,884.42
Zenith E7							
Tubing Sub	1	2.3750			2.00	3,884.42	3,886.42
Band cap string to sub							
Mesh Rite	1	2.8750			6.00	3,886.42	3,892.42
Packer	1	6.2000			1.50	3,892.42	3,893.92
Dual cup packer							
Mesh Rite	1	2.8750			71.50	3,893.92	3,965.42
Chemical Screen	5	2.8750			120.00	3,965.42	4,085.42

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 95150

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 95150
	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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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

COMMENTS

Action 95150

COMMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 95150
	Action Type: [C-104] Completion Packet (C-104C)

COMMENTS

Created By	Comment	Comment Date
plmartinez	GEO REVIEWED BY LL	4/1/2022

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

CONDITIONS

Action 95150

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 95150
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	RT EXPIRES 7/1/2022.	4/1/2022