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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

Submit one copy to appropriate District Office

Form C-104
Revised August 1, 2011

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 8/2022
⁴ API Number 30 – 015-49527	⁵ Pool Name Artesia; Glorieta – Yeso (O)	⁶ Pool Code 96830
⁷ Property Code 332861	⁸ Property Name Santana State Com 20CD	⁹ Well Number 003H

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
M	21	17S	28E		1220	South	200	West	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
L	20	17S	28E		1563	South	5	West	Eddy

¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 8/12/2022	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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III. Oil and Gas Transporters

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

IV. Well Completion Data

²¹ Spud Date 6/12/2022	²² Ready Date 8/12/2022	²³ TD 3650'V/9500'M	²⁴ PBTD 3650'V/9452'M	²⁵ Perforations 4364'-9406'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
12-1/4"		9-5/8"	1268'		580
8-3/4"		7"	4168'		1430
8-3/4"		5-1/2"	9489'		1430

V. Well Test Data

³¹ Date New Oil 9/10/2022	³² Gas Delivery Date 9/11/2022	³³ Test Date 10/26/2022	³⁴ Test Length 24	³⁵ Tbg. Pressure 260	³⁶ Csg. Pressure 83
³⁷ Choke Size N/A	³⁸ Oil 200	³⁹ Water 2209	⁴⁰ Gas 330		⁴¹ Test Method ESP

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:
10/27/2022

Phone:
(972) 590-9900

OIL CONSERVATION DIVISION

Approved by: **PATRICIA MARTINEZ**

Title: **PETROLEUM SPECIALIST**

Approval Date: **11/10/2022**

Received by OCD: 10/27/2022 3:47:03 PM

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
		1. WELL API NO. 30-015-49527				2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN				
		3. State Oil & Gas Lease No.				5. Lease Name or Unit Agreement Name Santana State Com 20 CD				
						6. Well Number: 003H				
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)										
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 Artesia; Glorieta-Yeso (O)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	21	17 S	28 E		1220	South	200	West	Eddy
BH:	L	20	17 S	28 E		1563	South	5	West	Eddy
13. Date Spudded 6/12/2022	14. Date T.D. Reached 6/21/2022		15. Date Rig Released 6/23/2022			16. Date Completed (Ready to Produce) 8/12/2022		17. Elevations (DF and RKB, RT, GR, etc.) 3613		
18. Total Measured Depth of Well 9500'			19. Plug Back Measured Depth 9452'			20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run Mudlog		
22. Producing Interval(s), of this completion - Top, Bottom, Name 4364'-9405' 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#		1268'		12-1/4"		580 sxs cmt to surf		0
7"		32#		4168'		8-3/4"		1430 sxs cmt to surf		0
5-1/2"		20#		9489'		8-3/4"		1430 sxs cmt to surf		0
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT		SCREEN		25. TUBING RECORD			
							SIZE		DEPTH SET	PACKER SET
							3-1/2"		3936'	
26. Perforation record (interval, size, and number)										
9405-9231, 9202-9028, 8999-8825, 8796-8825, 8593-8419, 8390-8216, 8181-8013, 7984-7810, 7781-7607, 7573-7404, 7375-7207, 7172-7004, 6969-6795, 6766-6592, 6563-6389, 6355-6186, 6157-5983, 5954-5780, 5751-5581, 5548-5374, 5346-5171, 5136-4968, 4937-4765, 4736-4562, 4533-4364.										
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.										
DEPTH INTERVAL						AMOUNT AND KIND MATERIAL USED				
4364'-9405'						Frac is 25 stages w/ 378197bbls slickwater and 6037500# sand				
28. PRODUCTION										
Date First Production 8/31/2022		Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>) Electric Submersible Pump					Well Status (<i>Prod. or Shut-in</i>) Prod			
Date of Test 10/26/2022	Hours Tested 24	Choke Size NA	Prod'n For Test Period	Oil - Bbl 200	Gas - MCF 330	Water - Bbl. 2209	Gas - Oil Ratio			
Flow Tubing Press. 260	Casing Pressure 83	Calculated 24-Hour Rate	Oil - Bbl. 200	Gas - MCF 330	Water - Bbl. 2209	Oil Gravity - API - (<i>Corr.</i>)				
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>) Sold							30. Test Witnessed By Jarrett Webb			
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 10/27/2022	
E-mail Address david.cain@longfellowenergy.com										

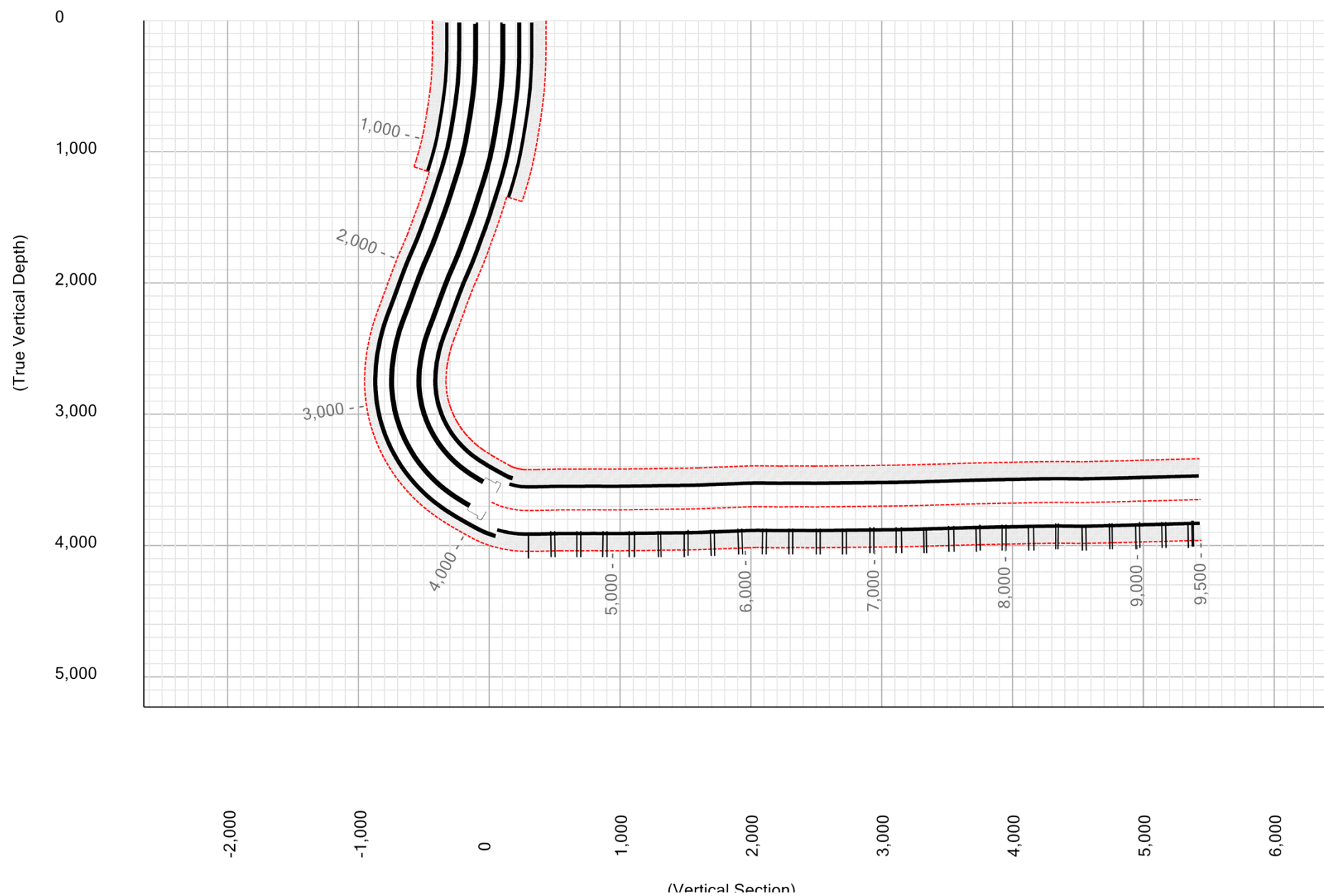
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From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Santana State Com 20CD # 3H, 8/29/2022



Santana State Com 20CD # 3H API # 30-015-49527				
1220 FSL & 200 FWL	GL Elev:	3,613.00	KOP:	2,809
Section 21, Township 17S, Range 28E			EOC:	4,369
County, State: Eddy, NM			Fill Depth:	
Aux ID:			PBTD:	9,452.00
'KB' correction: 17'; All Depths Corr To: KB			TD:	9,500.00
			BOP:	7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,268.00	6/13/2022
8.7500	1,268.00	9,500.00	6/23/2022

Surface Casing

Date Ran: 6/13/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	29	9.6250	36.00	J55	1,251.00	17.00	1,268.00

Production Casing

Date Ran: 6/23/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	70	7.0000	32.00	L80	2,757.34	17.00	2,774.34
Marker Jt	1	7.0000	32.00	L80	20.15	2,774.34	2,794.49
Casing	34	7.0000	32.00	L80	1,371.24	2,794.49	4,165.73
Crossover	1	5.5000	20.00	L80	2.66	4,165.73	4,168.39
Casing	9	5.5000	20.00	L80	395.68	4,168.39	4,564.07
Float Insert	1	5.5000	20.00	L80	1.85	4,564.07	4,565.92
Casing	56	5.5000	20.00	L80	2,491.65	4,565.92	7,057.57
Marker Jt	1	5.5000	20.00	L80	21.79	7,057.57	7,079.36
Casing	49	5.5000	20.00	L80	2,164.53	7,079.36	9,243.89
Marker Jt	1	5.5000	20.00	L80	21.83	9,243.89	9,265.72
Casing	4	5.5000	20.00	L80	175.70	9,265.72	9,441.42
Float Collar	1	5.5000	20.00	L80	1.67	9,441.42	9,443.09
Casing	1	5.5000	20.00	L80	44.31	9,443.09	9,487.40
Float Shoe	1	5.5000	20.00	L80	1.60	9,487.40	9,489.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	1,268.00	9.625	12.250	Circ	1 - Lead	430	C	13.50
					2 - Tail	150	C	14.80

Circ 75 bbls to pit

4,176.00	9,500.00	5.500	8.750	Calc				
1,260.00	4,176.00	7.000	8.750	CBL	1 - Lead	320	C 25/75	12.20
					2 - Tail	1110	C	14.80

got 30-35 bbls of blue died spacer back; 80% bond from 1260' - 2450'. Good bond below.

Zone and Perfs**Comments / Completion Summary**

Stg	Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid	Vol
1	9231	9405	241500	118	6762	135	7013	1666	3000	15557
2	9028	9202	241500	121	6737	131	7203	1930	3000	15448

3	8825	8999	241500	109	6761	122	7063	1998	3000	15448
4	8622	8796	241500	112	7094	120	7297	1676	3000	15083
5	8419	8593	241500	120	6918	129	7191	1954	3000	15835
6	8216	8390	241500	118	7064	120	7203	1723	3000	15101
7	8013	8181	241500	116	6871	116	7107	1837	3000	15516
8	7810	7984	241500	121	6703	123	6976	1619	4500	15238
9	7607	7781	241500	115	6911	124	7200	1644	3000	15552
10	7404	7573	241500	131	6924	132	7135	1840	3000	15243
11	7207	7375	241500	120	6914	127	7166	1645	3000	15988
12	7004	7172	241500	133	6664	136	6923	1613	3000	14917
13	6795	6969	241500	126	6763	130	6986	2536	3000	15156
14	6592	6766	241500	131	6435	136	7016	1826	3000	15914
15	6389	6563	241500	136	6168	137	6738	1613	3000	14838
16	6186	6355	241500	135	6442	137	7164	1836	3000	15064
17	5983	6157	241500	135	6638	137	6864	1975	3000	14591
18	5780	5954	241500	129	6171	131	6384	2012	3000	15643
19	5581	5751	241500	127	6052	129	7115	2166	3000	13790
20	5374	5548	241500	133	5823	137	6072	2169	3000	14660
21	5171	5346	241500	136	5691	138	5961	2308	3000	14728
22	4968	5136	241500	130	5388	137	5665	2883	3000	14513
23	4765	4937	241500	128	5842	129	6882	2042	3000	14528
24	4562	4736	241500	135	5960	136	6467	2195	3000	14697
25	4364	4533	241500	133	5725	136	6079	2230	4500	15149

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,364.00	4,533.00	Paddock	A	8/1/2022		4	28
STAGE #25 Plug and Perf DYNA .42							
4,562.00	4,736.00	Paddock	A	8/1/2022		4	28
STAGE #24 Plug and Perf DYNA .42							
4,765.00	4,937.00	Paddock	A	7/31/2022		4	28
STAGE #23 Plug and Perf DYNA .42							
4,968.00	5,136.00	Paddock	A	7/31/2022		4	28
STAGE #22 Plug and Perf GEOO .45							
5,171.00	5,345.00	Paddock	A	7/31/2022		4	28
STAGE #21 Plug and Perf							
5,374.00	5,548.00	Paddock	A	7/30/2022		4	28
STAGE #20 Plug and Perf							
5,581.00	5,751.00	Paddock	A	7/30/2022		4	28
STAGE #19 Plug and Perf							
5,780.00	5,954.00	Paddock	A	7/29/2022		4	28
STAGE #18 Plug and Perf							
5,983.00	6,157.00	Paddock	A	7/29/2022		4	28
STAGE #17 Plug and Perf							
6,186.00	6,355.00	Paddock	A	7/29/2022		4	28
STAGE #16 Plug and Perf							
6,389.00	6,563.00	Paddock	A	7/27/2022		4	28
STAGE #15 Plug and Perf							
6,592.00	6,766.00	Paddock	A	7/27/2022		4	36
STAGE #14 Plug and Perf							
6,795.00	6,969.00	Paddock	A	7/28/2022		4	28
STAGE #13 Plug and Perf							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
7,004.00	7,172.00	Paddock	A	7/27/2022		4	28
<i>STAGE #12 Plug and Perf</i>							
7,207.00	7,375.00	Paddock	A	7/27/2022		4	28
<i>STAGE #11 Plug and Perf</i>							
7,404.00	7,573.00	Paddock	A	7/26/2022		4	28
<i>STAGE #10 Plug and Perf</i>							
7,607.00	7,781.00	Paddock	A	7/26/2022		4	28
<i>STAGE #9 Plug and Perf</i>							
7,810.00	7,984.00	Paddock	A	7/26/2022		4	28
<i>STAGE #8 Plug and Perf</i>							
8,013.00	8,181.00	Paddock	A	7/25/2022		4	28
<i>STAGE #7 Plug and Perf</i>							
8,216.00	8,390.00	Paddock	A	7/25/2022		4	28
<i>STAGE #6 Plug and Perf</i>							
8,419.00	8,593.00	Paddock	A	7/24/2022		4	28
<i>STAGE #5 Plug and Perf</i>							
8,622.00	8,796.00	Paddock	A	7/24/2022		4	28
<i>STAGE #4 Plug and Perf</i>							
8,825.00	8,999.00	Paddock	A	7/24/2022		4	28
<i>STAGE #3 Plug and Perf</i>							
9,028.00	9,202.00	Paddock	A	7/21/2022		4	28
<i>STAGE #2 Plug and Perf</i>							
9,231.00	9,405.00	Paddock	A	7/21/2022		4	28
<i>STAGE #1 Plug and Perf</i>							
9,431.00	9,438.00	Paddock	TA	7/16/2022		6	36
TCP							

Tubing

Date Ran: 8/13/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing Sub	1	2.8750			10.00	17.00	27.00
Crossover	1				0.50	27.00	27.50
Plastic Lined Tbg	120	3.5000	6.50	L80	3,908.07	27.50	3,935.57
<i>Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" cap ran in well.</i>							
Crossover	1				0.50	3,935.57	3,936.07
ESP Pump	1	4.0000			0.50	3,936.07	3,936.57
<i>Discharge Pump</i>							
ESP Pump	1	4.0000			23.50	3,936.57	3,960.07
<i>E3000, 96 Stages</i>							
ESP Pump	1	4.0000			23.50	3,960.07	3,983.57
<i>E3000, 96 Stages</i>							
ESP Pump	1	4.0000			23.50	3,983.57	4,007.07
<i>G42, 78 Stages</i>							
ESP Intake	2	4.0000			8.80	4,007.07	4,015.87
<i>Double gas sep/intakes: 400GM2THVV</i>							
ESP Seal	2	4.0000			12.20	4,015.87	4,028.07
<i>Double seals</i>							
ESP Motor	1	4.5000			34.90	4,028.07	4,062.97
<i>Used 286 HP from Hendrix. 450SP</i>							

ESP Sensor	1	4.0000			2.82	4,062.97	4,065.79
<i>Zenith E7</i>							
Tubing Sub	1	2.3750			2.00	4,065.79	4,067.79
<i>Band cap string to sub</i>							

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 154480

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 154480
	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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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 154480

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 154480
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	11/10/2022