

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 RTNW8/2022
⁴ API Number 30 – 015-49529	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 005H

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		1180	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
M	20	17S	28E		815	South	17	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 6/24/2022	²² Ready Date 8/12/2022	²³ TD 3646'V/9464'M	²⁴ PBTD 3647'V/9418'M	²⁵ Perforations 4341'-9382'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
12-1/4"	9-5/8"	1253'	580		
8-3/4"	7"	4172'	1365		
8-3/4"	5-1/2"	9464'	1365		

V. Well Test Data

³¹ Date New Oil 9/13/2022	³² Gas Delivery Date 9/11/2022	³³ Test Date 10/26/2022	³⁴ Test Length 24	³⁵ Tbg. Pressure 310	³⁶ Csg. Pressure 196
³⁷ Choke Size NA	³⁸ Oil 456	³⁹ Water 440	⁴⁰ Gas 2921		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: 	OIL CONSERVATION DIVISION Approved by: PATRICIA MARTINEZ
Printed name: David Cain	Title: PETROLEUM SPECIALIST
Title: Regulatory Analyst	Approval Date: 11/10/2022
E-mail Address: David.cain@longfellowenergy.com	
Date: 10/27/2022	Phone: (972) 590-9900

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.			
												30-015-49529			
												2. Type of Lease			
												☒ STATE ☐ FEE ☐ FED/INDIAN			
												3. State Oil & Gas Lease No.			
WELL COMPLETION OR RECOMPLETION REPORT AND LOG															
4. Reason for filing:												5. Lease Name or Unit Agreement Name			
☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only)												Santana State Com 20 CD			
☐ 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)												6. Well Number:			
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER												005H			
8. Name of Operator												9. OGRID			
Longfellow Energy, LP												372210			
10. Address of Operator												11. Pool name or Wildcat			
8115 Preston Rd, Suite 800, Dallas, TX 75225												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		1180	South	200	West	Eddy					
BH:	M	20	17 S	28 E		815	South	17	West	Eddy					
13. Date Spudded	14. Date T.D. Reached		15. Date Rig Released			16. Date Completed (Ready to Produce)			17. Elevations (DF and RKB, RT, GR, etc.)						
6/24/2022	7/2/2022		7/5/2022			8/12/2022			3613						
18. Total Measured Depth of Well			19. Plug Back Measured Depth			20. Was Directional Survey Made?			21. Type Electric and Other Logs Run						
9464'			9418'			Yes			Mudlog						
22. Producing Interval(s), of this completion - Top, Bottom, Name															
4781'-9827' 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#		1253'		12-1/4"		580 sxs cmt to surf		0					
7"		32#		4172'		8-3/4"		1365 sxs cmt to surf		0					
5-1/2"		20#		9464'		8-3/4"		1365 sxs cmt to surf		0					
24. LINER RECORD															
SIZE	TOP		BOTTOM		SACKS CEMENT		SCREEN		25. TUBING RECORD						
									SIZE		DEPTH SET		PACKER SET		
									2-7/8"		3886'				
26. Perforation record (interval, size, and number)															
9827-9653, 9624-9458, 9421-9247, 9218-9044, 9011-8841, 8812-8638, 8607-8435, 8406-8232, 8201-8029, 8000-7826, 7796-7624, 7594-7423, 7391-7217, 7188-7012, 6985-6811, 6782-6607, 6579-6405, 6376-6202, 6173-6003, 5970-5796, 5767-5593, 5560-5390, 5362-5187, 5158-4984, 4955-4781.															
27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.															
DEPTH INTERVAL								AMOUNT AND KIND MATERIAL USED							
4781'-9827'								Frac is 25 stages w/ 373683bbbls slickwater and 6037500# sand							
28. PRODUCTION															
Date First Production			Production Method (<i>Flowing, gas lift, pumping - Size and type pump</i>)					Well Status (<i>Prod. or Shut-in</i>)							
8/31/2022			Electric Submersible Pump					Prod							
Date of Test	Hours Tested	Choke Size	Prod'n For Test Period	Oil - Bbl	Gas - MCF	Water - Bbl.	Gas - Oil Ratio								
10/26/2022	24	NA		456	440	2921									
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (<i>Corr.</i>)									
310	196		456	440	2921										
29. Disposition of Gas (<i>Sold, used for fuel, vented, etc.</i>)												30. Test Witnessed By			
Sold												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															

Released to Imaging: 11/10/2022 12:15:38 PM

Received by QCD: 10/27/2022 3:51:00 PM

Southeastern New Mexico	Northwestern New Mexico
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OIL OR GAS SANDS OR ZONES

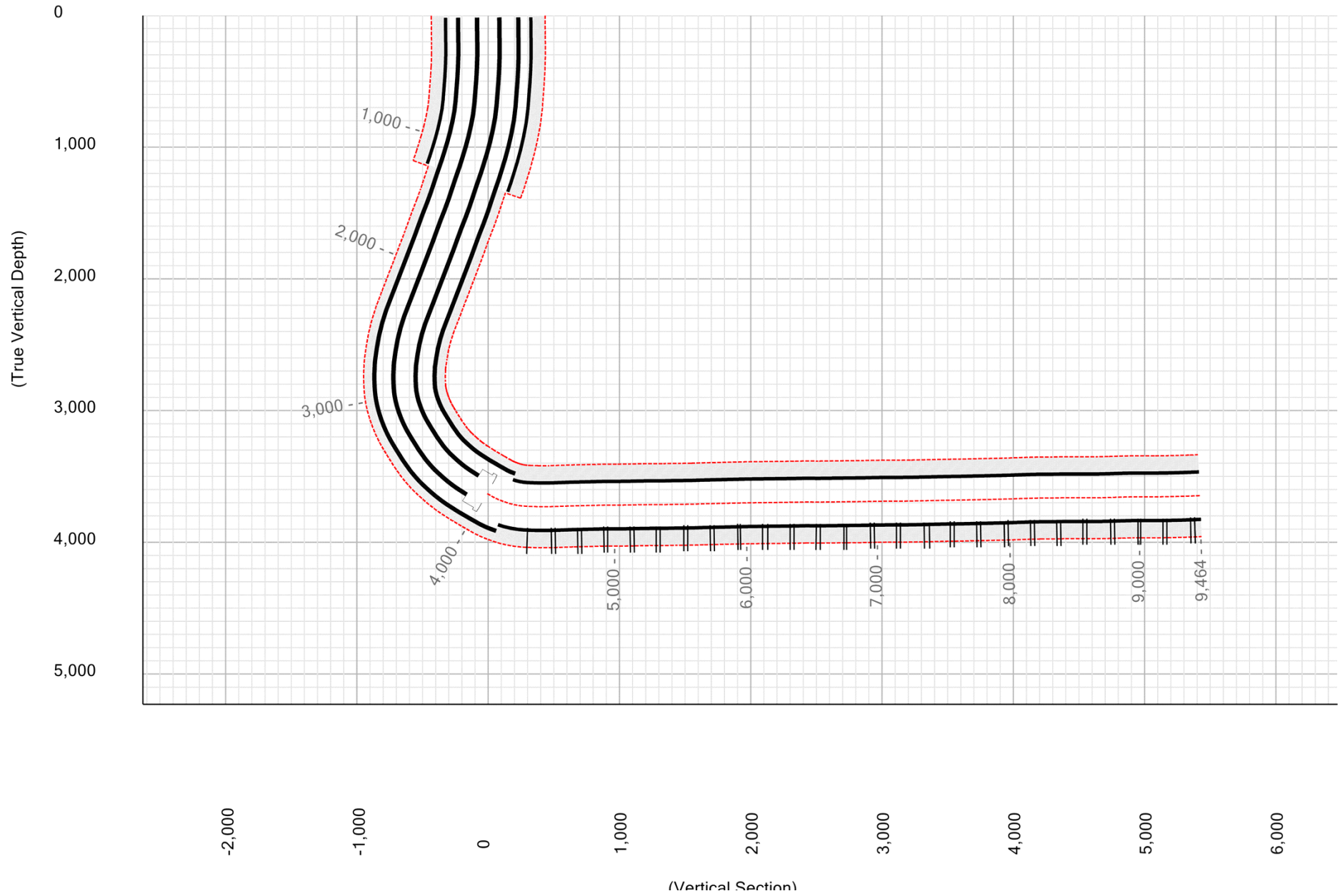
IMPORTANT WATER SANDS

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

From	To	Thickness In Feet	Lithology

Santana State Com 20CD # 5H, 8/29/2022



Santana State Com 20CD # 5H API # 30-015-49529			
1800 FSL & 200 FWL	GL Elev:	3,612.00	KOP: 2,847
Section 21, Township 17S, Range 28E			EOC: 4,366
County, State: Eddy, NM			Fill Depth:
Aux ID:			PBTD: 9,418.00
'KB' correction: 17'; All Depths Corr To: KB			TD: 9,464.00
			BOP: 7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	1,268.00	6/25/2022
8.7500	1,268.00	9,464.00	7/5/2022

Surface Casing

Date Ran: 6/25/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	29	9.6250	36.00	J55	1,236.00	17.00	1,253.00

Production Casing

Date Ran: 7/5/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	72	7.0000	32.00	L80	2,799.13	17.00	2,816.13
Marker Jt	1	7.0000	32.00	L80	21.54	2,816.13	2,837.67
Casing	34	7.0000	32.00	L80	1,332.05	2,837.67	4,169.72
Crossover	1	5.5000	20.00	L80	2.70	4,169.72	4,172.42
Casing	9	5.5000	20.00	L80	400.41	4,172.42	4,572.83
Float Insert	1	5.5000	20.00	L80	1.85	4,572.83	4,574.68
Casing	57	5.5000	20.00	L80	2,464.52	4,574.68	7,039.20
Marker Jt	1	5.5000	20.00	L80	22.39	7,039.20	7,061.59
Casing	49	5.5000	20.00	L80	2,158.91	7,061.59	9,220.50
Marker Jt	1	5.5000	20.00	L80	22.42	9,220.50	9,242.92
Casing	4	5.5000	20.00	L80	174.86	9,242.92	9,417.78
Float Collar	1	5.5000	20.00	L80	2.20	9,417.78	9,419.98
Casing	1	5.5000	20.00	L80	42.37	9,419.98	9,462.35
Float Shoe	1	5.5000	20.00	L80	1.65	9,462.35	9,464.00

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	425	C	13.50
					2 - Tail	150	C	14.80

Circ 44 bbls of cement to pit

4,170.00	9,464.00	5.500	8.750	Calc				
1,260.00	4,170.00	7.000	8.750	Calc				

No cmt to surf. 40 bbls of died preflush; 70 - 80% bond from 1260' - 2220'. Good bond below.

Zone and Perfs**Comments / Completion Summary**

Stg	Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid	Vol
1	9208	9381	241500	116	6623	130	6953	1739	3000	16041
2	9004	9178	241500	117	6718	133	7171	1361	3000	14586
3	8801	8975	241500	115	6819	124	7186	1631	4500	15884

4	8598	8772	241500	110	6263	122	6963	1520	3000	15755
5	8395	8569	241500	121	6843	121	7146	1875	3000	18089
6	8190	8366	241500	118	6935	125	7245	2068	3000	15436
7	7991	8163	241500	117	7043	123	7327	2166	3000	15473
8	7786	7960	241500	126	6948	127	7141	1913	3000	15721
9	7587	7757	241500	123	6831	126	7182	2113	3000	15638
10	7380	7554	241500	134	6749	136	6959	1655	3000	15775
11	7177	7351	241500	125	6878	128	7127	1953	3000	14511
12	6976	7146	241500	131	6805	136	6918	1943	3000	15658
13	6771	6945	241500	124	6891	133	7247	1980	3000	14668
14	6568	6742	241500	126	6747	132	7195	2411	3000	15800
15	6365	6539	241500	131	6212	139	6738	1979	3000	14141
16	6162	6332	241500	133	6782	135	6994	2399	3000	14673
17	5959	6129	241500	134	6702	136	7091	2409	3000	14425
18	5756	5930	241500	133	6535	137	7112	2274	3000	13945
19	5559	5727	241500	134	6211	136	6588	2233	3000	14079
20	5350	5524	241500	135	6143	138	6414	2793	3000	14418
21	5147	5318	241500	135	5935	137	6115	2835	3000	14302
22	4951	5118	241500	131	6188	137	6645	2539	3000	14801
23	4741	4915	241500	135	6107	137	6601	2510	3000	14286
24	4538	4712	241500	130	5789	135	6174	2440	3000	14789
25	4341	4509	241500	134	6193	136	7061	2284	3000	14680

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
4,341.00	4,509.00	Paddock	A	8/1/2022		4	28
STAGE #25 Plug and Perf Dyna Guns (.42 hole size)							
4,538.00	4,712.00	Paddock	A	7/31/2022		4	28
STAGE #24 Plug and Perf Dyna Guns (.42 hole size)							
4,741.00	4,915.00	Paddock	A	7/31/2022		4	28
STAGE #23 Plug and Perf Dyna Guns (.42 hole size)							
4,951.00	5,118.00	Paddock	A	7/31/2022		4	28
STAGE #22 Plug and Perf							
5,147.00	5,318.00	Paddock	A	7/30/2022		4	28
STAGE #21 Plug and Perf							
5,350.00	5,524.00	Paddock	A	7/30/2022		4	28
STAGE #20 Plug and Perf							
5,559.00	5,727.00	Paddock	A	7/30/2022		4	28
STAGE #19 Plug and Perf							
5,756.00	5,930.00	Paddock	A	7/29/2022		4	28
STAGE #18 Plug and Perf							
5,959.00	6,129.00	Paddock	A	7/29/2022		4	28
STAGE #17 Plug and Perf							
6,162.00	6,332.00	Paddock	A	7/28/2022		4	28
STAGE #16 Plug and Perf							
6,365.00	6,539.00	Paddock	A	7/28/2022		4	28
STAGE #15 Plug and Perf							
6,568.00	6,742.00	Paddock	A	7/28/2022		6	36
STAGE #14 Plug and Perf 7 CLUSTER, 3.125" GUN; 3 - 4 SPF X 4 - 6 SPF, 36 SHOTS.							
6,771.00	6,945.00	Paddock	A	7/27/2022		4	28
STAGE #13 Plug and Perf							
6,976.00	7,146.00	Paddock	A	7/27/2022		4	28
STAGE #12 Plug and Perf							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
7,177.00	7,351.00	Paddock	A	7/26/2022		4	28
STAGE #11 Plug and Perf							
7,390.00	7,554.00	Paddock	A	7/26/2022		4	28
STAGE #10 Plug and Perf							
7,587.00	7,757.00	Paddock	A	7/26/2022		4	28
STAGE #9 Plug and Perf							
7,786.00	7,960.00	Paddock	A	7/25/2022		4	28
STAGE #8 Plug and Perf							
7,991.00	8,163.00	Paddock	A	7/25/2022		4	28
STAGE #7 Plug and Perf							
8,190.00	8,366.00	Paddock	A	7/25/2022		4	36
STAGE #6 Plug and Perf							
8,395.00	8,569.00	Paddock	A	7/24/2022		4	28
STAGE #5 Plug and Perf							
8,598.00	8,772.00	Paddock	A	7/22/2022		4	36
STAGE #4 Plug and Perf							
8,801.00	8,990.00	Paddock	A	7/23/2022		4	28
Stage #3 Plug and Perf							
9,004.00	9,178.00	Paddock	A	7/22/2022		4	28
STAGE #2 Plug and Perf							
9,208.00	9,381.00	Paddock	A	7/21/2022		4	28
STAGE #1 Plug and Perf							
9,411.00	9,417.00	Paddock	A	7/13/2022		6	36
TCP							

Tubing

Date Ran: 8/15/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Plastic Lined Tbg	119	2.8750	6.50	L80	3,869.15	17.00	3,886.15
Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" cap ran in well.							
ESP Pump	1	4.0000			0.50	3,886.15	3,886.65
Discharge Pump							
ESP Pump	1	4.0000			23.50	3,886.65	3,910.15
E3000, 96 Stages							
ESP Pump	1	4.0000			23.50	3,910.15	3,933.65
E3000, 96 Stages							
ESP Pump	1	4.0000			23.50	3,933.65	3,957.15
G42, 78 Stages							
ESP Intake	2	4.0000			8.80	3,957.15	3,965.95
Double gas sep/intakes: 400GM2THVV							
ESP Seal	2	4.0000			12.20	3,965.95	3,978.15
Double seals							
ESP Motor	1	4.5000			32.50	3,978.15	4,010.65
Used 286 HP from Hendrix. 450SP							
ESP Sensor	1	4.0000			2.00	4,010.65	4,012.65
Zenith E7							
Tubing Sub	1	2.3750			2.00	4,012.65	4,014.65
Band cap string to sub							

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 154488

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 154488
	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
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Santa Fe, NM 87505

CONDITIONS

Action 154488

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 154488
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

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