

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 NW 4/2023	
⁴ API Number 30 – 015-48308	⁵ Pool Name Empire; Glorieta - Yeso		⁶ Pool Code 96210
⁷ Property Code 330799	⁸ Property Name Prince Federal 19B		⁹ Well Number 002H

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
G	24	17S	28E		2188	North	1323	East	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
H	19	17S	29E		1738	North	22	East	Eddy

¹² Lse Code F	¹³ Producing Method Code P	¹⁴ Gas Connection Date 1/15/2023	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 11/17/2022	²² Ready Date 12/30/2022	²³ TD 4676'V/9855'M	²⁴ PBDT 4676'V/9802'M	²⁵ Perforations 5,124'-9,736'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8"	360'	500		
12-1/4"	9-5/8"	1469'	750		
8-3/4"	7"	4922'	1410		
8-3/4	5-1/2"	9850'			
	2-7/8"	4640'			

V. Well Test Data

³¹ Date New Oil 1/9/2023	³² Gas Delivery Date 1/9/2023	³³ Test Date 1/15/2023	³⁴ Test Length 24	³⁵ Tbg. Pressure 185	³⁶ Csg. Pressure 73
³⁷ Choke Size 64/64	³⁸ Oil 137	³⁹ Water 1327	⁴⁰ Gas 249		⁴¹ Test Method Pumping

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: 4/20/2023
Phone: (972) 590-9900

OIL CONSERVATION DIVISION

Approved by:
PATRICIA MARTINEZ

Title: PETROLEUM SPECIALIST

Approval Date: 4/21/2023

Form 3160-5
(June 2019)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

3a. Address

3b. Phone No. (include area code)

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

9. API Well No.

10. Field and Pool or Exploratory Area

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c) and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: SENE / 2344 FNL / 1303 FEL / TWSP: 17S / RANGE: 28E / SECTION: 24 / LAT: 32.8221284 / LONG: -104.1256693 (TVD: 0 feet, MD: 0 feet)

PPP: NESE / 2575 FSL / 468 FEL / TWSP: 17S / RANGE: 28E / SECTION: 24 / LAT: 32.8211399 / LONG: -104.1229517 (TVD: 4086 feet, MD: 4198 feet)

BHL: SENE / 2278 FNL / 20 FEL / TWSP: 17S / RANGE: 29E / SECTION: 19 / LAT: 32.8210492 / LONG: -104.1056745 (TVD: 4600 feet, MD: 9774 feet)

CONFIDENTIAL



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print

03/31/2023

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Section 1 - General

Well Completion Report Id: 87121**Submission Date:** 01-18-2023**BLM Office:** Carlsbad Field Office**User:** DAVID CAIN**Title:** Engineering Technologist &**Federal/Indian:** FEDERAL**Lease Number:** NMNM14847**Lease Acres:****Agreement in place?:** NO**Federal or Indian Agreement:****Agreement Number:****Agreement Name:****Keep this Well Completion Report confidential?:****APD Operator:** LONGFELLOW ENERGY
LP

Section 2 - Well

Field/Pool or Exploratory:**Pool Name:** GLORIETA YESO**Field Name:** EMPIRE**Well Type:** OIL WELL**Spud Date:** 11-17-2022**Date Total Measured Depth Reached:** 11-26-2022**Drill & Abandon or Ready To Produce:** READY TO**Well Class:** HORIZONTAL

Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
QUATERNARY	OTHER	Caliche	3697	0	0	USEABLE WATER	
YATES	DOLOMITE		2933	760	765	NATURAL GAS, OIL	

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
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Section 3 - Geologic

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral
QUEEN	SANDSTONE		2103	1594	1607	NATURAL GAS, OIL	
SAN ANDRES	DOLOMITE		1380	2295	2317	NATURAL GAS, OIL	
GLORIETA	DOLOMITE		-31	3728	3770	NATURAL GAS, OIL	
YESO	DOLOMITE, OTHER	Paddock	-58	3755	3798	NATURAL GAS, OIL	
YESO	DOLOMITE, OTHER	Blinebry	-508	4205	4301	NATURAL GAS, OIL	

Completion and Completed

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	S1	1	NMNM14847	NMNM14847	NEW		POW	12-14-2022	01-08-2023	YESO	5124	9736	Y	.42	705	ISOLATED

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Totle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
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Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Total Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	S1	1	Y	FRAC	352179	5631764	

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	S1	1	37	0.842	ELECTRIC PUMP SUB-SURFACE		FLARED	

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	S1	1	01/15/2023	24	137	249	1327	1817	64/64	185		73

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Well Location

Survey Type: RECTANGULAR

Survey Number: 12797

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum: KB

	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquo/Lot/Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8225566	-104.1257321	3696	STATE	STATE				2188	FNL	1323	FEL	17S	28E	24	SENE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8225796	-104.124029	-490	STATE	STATE				2182	FNL	799	FEL	17S	28E	24	SENE
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8225715	-104.1210989	-905	FEDERAL	NMNM 14847				1735	FNL	101	FWL	17S	29E	19	Lot 2
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8210492	-104.1056745	-979	FEDERAL	NMNM 14847				1738	FNL	100	FEL	17S	29E	19	SENE
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.8225343	-104.1056792	-904	FEDERAL	NMNM 14847				1738	FNL	22	FEL	17S	29E	19	SENE

Casing, Liner and Tubing

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	CONDUCTOR	17.5	0	360	13.375	54.5	J-55		OTHER	BTC	
00	SURFACE	12.25	0	1469	9.625	36	J-55		LT&C		
00	PRODUCT ION	8.75	0	4920	7.0	32	L-80		OTHER	BKHT	
00	PRODUCT ION	8.75	4150	9850	5.5	20	L-80		OTHER	BKHT	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume
00	CONDUCTOR		Class C	500	1.33	0					118.4
00	SURFACE		Class C	540	1.72	0	Class C	210	1.33	627	215.2
00	PRODUCT ION		25/75 Poz C	385	2.16	0	Class C	1025	1.33	4137	390.9

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
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Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	2.875		4640		6	L-80		OTHER	8RD

Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report	Wellbore Diagram
00	YES	NO	NO	YES	NO	YES

Operator Name LONGFELLOW ENERGY LP SHL SENE Sec 24 17S 28E	Well Name PRINCE FEDERAL 19B	Well Number 002H	US Well Number 3001548308
	County EDDY	State NM	Lease Number(s) NMNM14847
Well Type OIL WELL	Well Status Drilling Well	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name Prince Federal 19B	Well Pad Number 001H	ID 10400063513

Operator

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: LONGFELLOW ENERGY LP

Signed By: DAVID CAIN

Title: Engineering Technologist & **Signed on:** 03/30/2023
Regulatory Specialist

Street Address: 16803 DALLAS PARKWAY

City: ADDISON

State: TX

Zip: 75001

Phone: (214)265-4715

Email address: DAVID.CAIN@LONGFELLOWENERGY.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Extension:

Email address:

Attachments

FINAL_PRINCE_FEDERAL_19B_002H_1MD_20230116154242.pdf

PRINCE_FEDERAL_19B__2H_FINAL_SURVEY_REPORT_20230116154243.pdf

PRINCE_FEDERAL_19B_002H_WBD_1_5_23_20230116154244.pdf

PRINCE_FEDERAL_19B_001H_AS_DRILLED_12_9_22_signed_20230330110518.pdf

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
As-Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-48308	² Pool Code 96210	³ Pool Name EMPIRE; GLORIETA-YESO
⁴ Property Code 330799	⁵ Property Name PRINCE FEDERAL 19B	⁶ Well Number 002H
⁷ OGRID No. 372210	⁸ Operator Name LONGFELLOW ENERGY, LP	⁹ Elevation 3696.2

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
G	24	17 S	28 E		2188	NORTH	1323	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
H	19	17 S	29 E		1738	NORTH	22	EAST	EDDY

¹² Dedicated Acres 147.28	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.

<p>NW CORNER SEC. 24 LAT. = 32.8285163°N LONG. = 104.1383286°W NMSP EAST (FT) N = 665202.37 E = 601236.81</p> <p>NE CORNER SEC. 24 LAT. = 32.8285895°N LONG. = 104.1214098°W NMSP EAST (FT) N = 665238.99 E = 606433.68</p> <p>N/4 CORNER SEC. 24 LAT. = 32.8285531°N LONG. = 104.1298694°W NMSP EAST (FT) N = 665220.65 E = 603835.19</p> <p>W/4 CORNER SEC. 24 LAT. = 32.8211976°N LONG. = 104.1383705°W NMSP EAST (FT) N = 662539.66 E = 601228.84</p> <p>SW CORNER SEC. 24 LAT. = 32.8138603°N LONG. = 104.1384647°W NMSP EAST (FT) N = 659870.21 E = 601204.84</p> <p>SE CORNER SEC. 24 LAT. = 32.8140040°N LONG. = 104.1214570°W NMSP EAST (FT) N = 659932.51 E = 606429.84</p>		<p>NW CORNER SEC. 19 LAT. = 32.8273415°N LONG. = 104.1214155°W NMSP EAST (FT) N = 664784.94 E = 606432.86</p> <p>NE CORNER SEC. 19 LAT. = 32.8273104°N LONG. = 104.1056041°W NMSP EAST (FT) N = 664783.74 E = 611289.69</p> <p>N/4 CORNER SEC. 19 LAT. = 32.8273413°N LONG. = 104.1142272°W NMSP EAST (FT) N = 664789.39 E = 608640.89</p> <p>W/4 CORNER SEC. 19 LAT. = 32.8200949°N LONG. = 104.1214373°W NMSP EAST (FT) N = 662148.50 E = 606431.45</p> <p>SE CORNER SEC. 19 LAT. = 32.8128479°N LONG. = 104.1214627°W NMSP EAST (FT) N = 659511.90 E = 606428.92</p> <p>SW CORNER SEC. 19 LAT. = 32.8128479°N LONG. = 104.1214627°W NMSP EAST (FT) N = 659511.90 E = 606428.92</p> <p>SE CORNER SEC. 19 LAT. = 32.8128631°N LONG. = 104.1056019°W NMSP EAST (FT) N = 659527.59 E = 611301.71</p>	
<p>PRINCE FEDERAL 19B 002H ELEV. = 3696.2' LAT. = 32.8225566°N (NAD83) LONG. = 104.1257321°W NMSP EAST (FT) N = 663041.48 E = 605110.31</p> <p>KICK OFF POINT 2182' FNL, 799' FEL LAT. = 32.8225796°N LONG. = 104.1240290°W</p> <p>SURFACE LOCATION KOP</p> <p>SEC. 24 T17S, R28E</p> <p>SEC. 19 T17S, R29E</p> <p>LAST TAKE POINT 1738' FNL, 100' FEL LAT. = 32.8225343°N LONG. = 104.1059337°W</p> <p>SCALED</p>			
<p>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.</p> <p><i>David Cain</i> 12/21/2022 Signature Date</p> <p>David Cain Printed Name</p> <p>david.cain@longfellowenergy.com E-mail Address</p>		<p>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.</p> <p>DECEMBER 2, 2022 Date of Survey</p> <p><i>THOMAS F. JARAMILLO</i> Signature and Seal of Professional Surveyor</p> <p>Certificate Number: THOMAS F. JARAMILLO, PLS 12797 PROFESSIONAL SURVEYOR NO. 8436B</p>	

Intent ☐ As Drilled ☒

API # 30-015-48308		
Operator Name: LONGFELLOW ENERGY, LP	Property Name: PRINCE FEDERAL 19B	Well Number 002H

Kick Off Point (KOP)

UL H	Section 24	Township 17S	Range 28E	Lot	Feet	From N/S 2182	Feet NORTH	From E/W 799	County EAST
Latitude 32.8225796					Longitude 104.1240290			NAD 83	

First Take Point (FTP)

UL H	Section 19	Township 17S	Range 29E	Lot 2	Feet 1735	From N/S NORTH	Feet 101	From E/W WEST	County EDDY
Latitude 32.8225715					Longitude 104.1210989			NAD 83	

Last Take Point (LTP)

UL H	Section 19	Township 17S	Range 29E	Lot	Feet 1738	From N/S NORTH	Feet 100	From E/W EAST	County EDDY
Latitude 32.8225341					Longitude 104.1059337			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)
PRINCE FEDERAL 19B
002H

Wellbore #1

Design: Wellbore #1

Standard Survey Report

28 November, 2022





Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
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		PRINCE FEDERAL 19B			
Site Position:		Northing:	663,061.48 usft	Latitude:	32.8226116
From:	Map	Easting:	605,110.33 usft	Longitude:	-104.1257319
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.113 °

Well	002H					
Well Position	+N/-S	0.00 usft	Northing:	663,041.48 usft	Latitude:	32.8225566
	+E/-W	0.00 usft	Easting:	605,110.31 usft	Longitude:	-104.1257321
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,694.50 usft

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	89.87	

Survey Program	Date	11/28/22			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	9,855.00	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	
PRINCE #2: SHL										
196.00	0.55	157.62	196.00	-0.87	0.36	0.36	0.28	0.28	0.00	
226.00	0.52	148.02	226.00	-1.12	0.49	0.48	0.31	-0.10	-32.00	
298.00	1.55	118.41	297.98	-1.86	1.51	1.51	1.57	1.43	-41.12	
407.00	1.77	126.83	406.94	-3.57	4.16	4.15	0.30	0.20	7.72	
498.00	2.37	109.50	497.88	-5.04	7.06	7.05	0.95	0.66	-19.04	
588.00	4.51	96.88	587.71	-6.09	12.33	12.31	2.51	2.38	-14.02	
679.00	7.00	90.08	678.25	-6.52	21.42	21.41	2.83	2.74	-7.47	
769.00	8.86	94.34	767.38	-7.05	33.82	33.80	2.17	2.07	4.73	
860.00	9.35	91.58	857.24	-7.79	48.20	48.18	0.72	0.54	-3.03	
950.00	9.24	88.05	946.06	-7.74	62.73	62.71	0.65	-0.12	-3.92	
1,041.00	8.79	87.70	1,035.93	-7.22	76.98	76.96	0.50	-0.49	-0.38	
1,132.00	9.42	90.81	1,125.79	-7.04	91.37	91.35	0.88	0.69	3.42	
1,223.00	10.24	93.33	1,215.45	-7.62	106.89	106.87	1.02	0.90	2.77	
1,317.00	9.66	93.73	1,308.04	-8.62	123.10	123.08	0.62	-0.62	0.43	



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
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)
1,397.00	9.25	88.17	1,386.95	-8.85	136.23	136.21	1.25	-0.51	-6.95
1,490.00	9.15	84.25	1,478.75	-7.87	151.06	151.04	0.68	-0.11	-4.22
1,584.00	8.22	83.68	1,571.68	-6.38	165.17	165.16	0.99	-0.99	-0.61
1,677.00	8.78	84.14	1,663.65	-4.92	178.84	178.83	0.61	0.60	0.49
1,771.00	9.09	85.16	1,756.51	-3.56	193.38	193.37	0.37	0.33	1.09
1,866.00	8.27	82.81	1,850.42	-2.08	207.63	207.63	0.94	-0.86	-2.47
1,960.00	9.30	89.99	1,943.32	-1.23	221.94	221.93	1.60	1.10	7.64
2,055.00	9.96	94.56	2,036.99	-1.88	237.80	237.80	1.06	0.69	4.81
2,149.00	9.48	93.60	2,129.64	-3.01	253.63	253.62	0.54	-0.51	-1.02
2,242.00	9.12	92.92	2,221.41	-3.87	268.64	268.63	0.40	-0.39	-0.73
2,337.00	8.91	92.41	2,315.24	-4.56	283.50	283.49	0.24	-0.22	-0.54
2,432.00	8.77	92.01	2,409.11	-5.12	298.09	298.08	0.16	-0.15	-0.42
2,557.00	10.69	87.87	2,532.31	-5.03	319.20	319.19	1.63	1.54	-3.31
2,651.00	10.33	86.71	2,624.73	-4.22	336.33	336.32	0.44	-0.38	-1.23
2,745.00	9.89	86.09	2,717.27	-3.19	352.80	352.79	0.48	-0.47	-0.66
2,840.00	9.41	85.73	2,810.93	-2.05	368.68	368.68	0.51	-0.51	-0.38
2,934.00	9.01	85.20	2,903.72	-0.86	383.68	383.68	0.43	-0.43	-0.56
3,029.00	8.72	84.03	2,997.58	0.51	398.26	398.26	0.36	-0.31	-1.23
3,123.00	8.50	83.95	3,090.52	1.98	412.25	412.25	0.23	-0.23	-0.09
3,218.00	10.14	87.47	3,184.26	3.09	427.59	427.59	1.83	1.73	3.71
3,312.00	10.47	87.39	3,276.75	3.84	444.39	444.39	0.35	0.35	-0.09
3,407.00	10.13	86.72	3,370.22	4.72	461.35	461.36	0.38	-0.36	-0.71
3,502.00	9.61	86.13	3,463.81	5.73	477.60	477.61	0.56	-0.55	-0.62
3,596.00	9.26	84.70	3,556.54	6.96	492.96	492.98	0.45	-0.37	-1.52
3,690.00	9.04	83.83	3,649.34	8.45	507.83	507.85	0.28	-0.23	-0.93
3,785.00	9.58	88.91	3,743.09	9.40	523.16	523.18	1.03	0.57	5.35
3,880.00	16.47	88.01	3,835.59	10.02	544.55	544.57	7.26	7.25	-0.95
3,974.00	23.33	87.26	3,923.93	11.38	576.49	576.52	7.30	7.30	-0.80
4,068.00	28.46	88.24	4,008.46	12.95	617.50	617.53	5.48	5.46	1.04
4,162.00	30.55	97.03	4,090.31	10.72	663.63	663.65	5.11	2.22	9.35
4,257.00	35.28	97.90	4,170.03	3.99	714.79	714.80	5.00	4.98	0.92
4,352.00	39.60	95.39	4,245.45	-2.63	772.14	772.13	4.82	4.55	-2.64
4,445.00	44.34	89.50	4,314.60	-5.13	834.21	834.19	6.62	5.10	-6.33
4,538.00	51.92	86.56	4,376.64	-2.65	903.35	903.34	8.48	8.15	-3.16
4,631.00	59.71	90.37	4,428.86	-0.71	980.18	980.17	9.03	8.38	4.10
4,726.00	58.81	90.22	4,477.42	-1.13	1,061.83	1,061.82	0.96	-0.95	-0.16
4,820.00	57.62	90.54	4,526.93	-1.66	1,141.73	1,141.72	1.30	-1.27	0.34
4,915.00	68.18	88.47	4,570.15	-0.86	1,226.17	1,226.16	11.28	11.12	-2.18
5,009.00	80.47	86.43	4,595.50	3.21	1,316.40	1,316.40	13.24	13.07	-2.17
5,103.00	91.78	87.93	4,601.85	7.81	1,409.92	1,409.93	12.14	12.03	1.60
5,116.35	91.82	88.22	4,601.43	8.26	1,423.26	1,423.27	2.21	0.26	2.20
PRINCE #2: FTP									
5,198.00	92.03	90.02	4,598.69	9.51	1,504.84	1,504.86	2.21	0.26	2.20



Survey Report



Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
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)
5,292.00	91.77	91.04	4,595.57	8.64	1,598.79	1,598.80	1.12	-0.28	1.09
5,386.00	91.19	90.99	4,593.14	6.97	1,692.74	1,692.75	0.62	-0.62	-0.05
5,481.00	90.49	91.21	4,591.75	5.15	1,787.71	1,787.72	0.77	-0.74	0.23
5,576.00	89.62	91.09	4,591.66	3.24	1,882.69	1,882.69	0.92	-0.92	-0.13
5,670.00	88.78	90.92	4,592.97	1.59	1,976.67	1,976.67	0.91	-0.89	-0.18
5,764.00	88.89	90.23	4,594.88	0.65	2,070.64	2,070.64	0.74	0.12	-0.73
5,855.00	90.09	89.61	4,595.69	0.78	2,161.64	2,161.63	1.48	1.32	-0.68
5,945.00	89.17	89.54	4,596.27	1.45	2,251.63	2,251.63	1.03	-1.02	-0.08
6,036.00	88.30	89.20	4,598.28	2.45	2,342.60	2,342.60	1.03	-0.96	-0.37
6,127.00	87.51	88.83	4,601.61	4.01	2,433.53	2,433.53	0.96	-0.87	-0.41
6,218.00	89.50	88.78	4,603.98	5.91	2,524.47	2,524.48	2.19	2.19	-0.05
6,308.00	88.80	88.22	4,605.32	8.26	2,614.43	2,614.44	1.00	-0.78	-0.62
6,399.00	90.04	89.84	4,606.24	9.80	2,705.41	2,705.42	2.24	1.36	1.78
6,489.00	89.62	89.68	4,606.51	10.18	2,795.41	2,795.42	0.50	-0.47	-0.18
6,580.00	88.89	89.64	4,607.69	10.72	2,886.40	2,886.41	0.80	-0.80	-0.04
6,670.00	89.42	90.29	4,609.02	10.77	2,976.39	2,976.40	0.93	0.59	0.72
6,761.00	89.87	90.70	4,609.58	9.99	3,067.38	3,067.40	0.67	0.49	0.45
6,852.00	89.17	90.40	4,610.34	9.11	3,158.37	3,158.39	0.84	-0.77	-0.33
6,943.00	88.58	89.78	4,612.13	8.97	3,249.35	3,249.37	0.94	-0.65	-0.68
7,038.00	87.88	89.67	4,615.06	9.43	3,344.31	3,344.32	0.75	-0.74	-0.12
7,133.00	89.48	90.32	4,617.25	9.43	3,439.28	3,439.29	1.82	1.68	0.68
7,226.00	89.81	90.09	4,617.83	9.10	3,532.28	3,532.29	0.43	0.35	-0.25
7,319.00	89.34	89.74	4,618.52	9.24	3,625.27	3,625.28	0.63	-0.51	-0.38
7,413.00	89.06	89.36	4,619.83	9.98	3,719.26	3,719.27	0.50	-0.30	-0.40
7,506.00	89.31	89.29	4,621.15	11.07	3,812.24	3,812.26	0.28	0.27	-0.08
7,601.00	89.53	88.93	4,622.12	12.55	3,907.23	3,907.25	0.44	0.23	-0.38
7,696.00	89.76	89.50	4,622.70	13.85	4,002.22	4,002.24	0.65	0.24	0.60
7,789.00	87.65	90.31	4,624.81	14.01	4,095.19	4,095.21	2.43	-2.27	0.87
7,884.00	87.01	89.87	4,629.23	13.86	4,190.08	4,190.10	0.82	-0.67	-0.46
7,979.00	87.32	89.50	4,633.93	14.38	4,284.97	4,284.99	0.51	0.33	-0.39
8,073.00	87.60	88.93	4,638.10	15.66	4,378.86	4,378.89	0.68	0.30	-0.61
8,168.00	88.72	90.38	4,641.15	16.24	4,473.81	4,473.83	1.93	1.18	1.53
8,263.00	89.45	91.08	4,642.66	15.03	4,568.79	4,568.81	1.06	0.77	0.74
8,357.00	90.43	90.46	4,642.76	13.76	4,662.78	4,662.80	1.23	1.04	-0.66
8,452.00	89.06	91.10	4,643.18	12.47	4,757.77	4,757.78	1.59	-1.44	0.67
8,546.00	87.57	91.91	4,645.95	10.00	4,851.69	4,851.70	1.80	-1.59	0.86
8,641.00	87.82	91.76	4,649.77	6.96	4,946.56	4,946.57	0.31	0.26	-0.16
8,736.00	88.86	91.37	4,652.52	4.37	5,041.49	5,041.48	1.17	1.09	-0.41
8,829.00	88.44	90.84	4,654.71	2.58	5,134.44	5,134.44	0.73	-0.45	-0.57
8,924.00	88.47	90.35	4,657.27	1.59	5,229.40	5,229.39	0.52	0.03	-0.52
9,019.00	89.25	90.26	4,659.16	1.08	5,324.38	5,324.37	0.83	0.82	-0.09
9,114.00	90.35	89.90	4,659.50	0.95	5,419.38	5,419.37	1.22	1.16	-0.38
9,208.00	87.79	90.01	4,661.02	1.03	5,513.36	5,513.35	2.73	-2.72	0.12



Survey Report



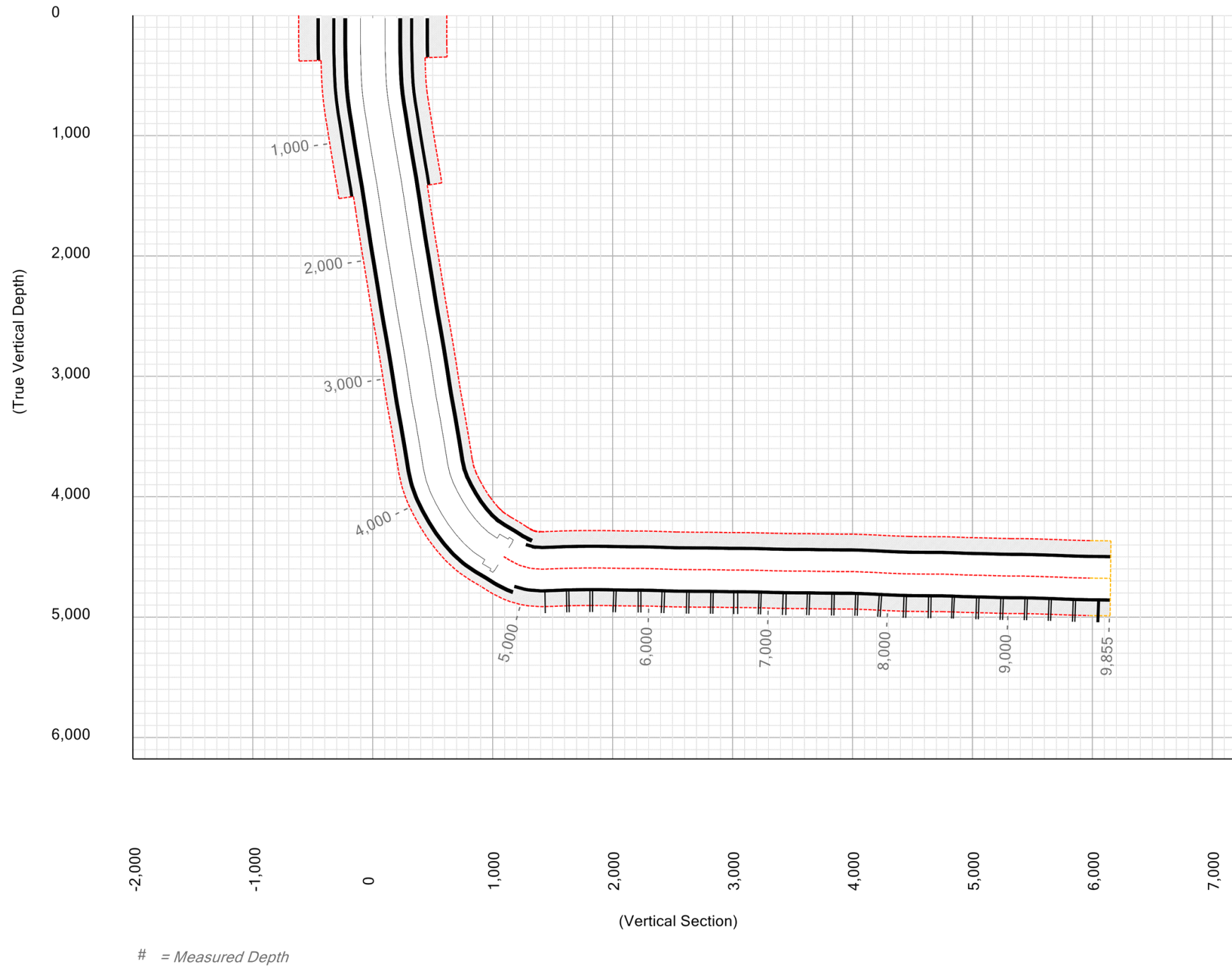
Company:	Longfellow Energy	Local Co-ordinate Reference:	Well 002H
Project:	Eddy Co., NM (Nad-83)	TVD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Site:	PRINCE FEDERAL 19B	MD Reference:	RKB = 26.6' @ 3721.10usft (FRONTIER 26)
Well:	002H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation 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)	
9,303.00	88.80	89.98	4,663.85	1.03	5,608.32	5,608.30	1.06	1.06	-0.03	
9,398.00	87.26	89.41	4,667.11	1.54	5,703.26	5,703.24	1.73	-1.62	-0.60	
9,491.00	87.74	89.39	4,671.17	2.51	5,796.16	5,796.15	0.52	0.52	-0.02	
9,586.00	88.61	89.52	4,674.20	3.41	5,891.11	5,891.10	0.93	0.92	0.14	
9,680.00	89.34	89.78	4,675.88	3.99	5,985.09	5,985.08	0.82	0.78	0.28	
9,776.82	90.31	89.82	4,676.17	4.33	6,081.91	6,081.90	1.00	1.00	0.04	
PRINCE #2: LTP										
9,781.00	90.35	89.82	4,676.15	4.34	6,086.09	6,086.08	1.00	1.00	0.04	
9,855.00	90.35	89.82	4,675.70	4.57	6,160.09	6,160.08	0.00	0.00	0.00	
Projection to Bit: 9855.00' MD/ 4675.70' TVD - Final Station Closure Distance= 6160.09 /Direction= 89.96 - TD: Latitude=										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
9,855.00	4,675.70	4.57	6,160.09	Projection to Bit: 9855.00' MD/ 4675.70' TVD	
9,855.00	4,675.70	4.57	6,160.09	Final Station Closure Distance= 6160.09 /Direction= 89.96	
9,855.00	4,675.70	4.57	6,160.09	TD: Latitude= 32.822534 / Longitude= -104.105679	
9,855.00	4,675.70	4.57	6,160.09	TD: Y= 663046.05 / X= 611270.40	

Checked By: _____ Approved By: _____ Date: _____

Prince Federal # 2H, 1/5/2023



Prince Federal # 2H API # 30-015-48308			
2344 FNL & 1303 FEL	GL Elev: 3,693.00	KOP:	3,785
Section 24, League 17S, Range 28E		EOC:	5,101
County, State: Eddy, NM		Fill Depth:	
Aux ID:		PBTD:	9,802.00
'KB' correction: 26.5; All Depths Corr To: KB		TD:	9,850.00
		BOP:	7 1/16 10M

Hole Size

Diameter	Top At	Btm At	Date Drilled
17.5000	0.00	365.00	11/16/2022
12.2500	365.00	1,470.00	11/18/2022
8.7500	1,470.00	9,855.00	11/23/2022

Surface Casing

Date Ran: 11/16/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	10	13.3750	54.50	J55	333.50	26.50	360.00

Intermediate Casing

Date Ran: 11/18/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	36	9.6250	36.00	J55	1,442.50	26.50	1,469.00

Production Casing

Date Ran: 11/23/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	93	7.0000	32.00	L80	3,664.67	26.50	3,691.17

Bow spring every 3rd jt

Marker Jt	1	7.0000	32.00	L80	18.26	3,691.17	3,709.43
Casing	31	7.0000	32.00	L80	1,210.61	3,709.43	4,920.04

Bow spring every 3rd jt

Crossover	1	5.5000	20.00	L80	2.50	4,920.04	4,922.54
Casing	9	5.5000	20.00	L80	403.16	4,922.54	5,325.70

Spiral Solid body every 2nd jt

Float Insert	1	5.5000	20.00	L80	1.20	5,325.70	5,326.90
Casing	48	5.5000	20.00	L80	2,124.23	5,326.90	7,451.13

Spiral Solid body every 2nd jt

Marker Jt	1	5.5000	20.00	L80	22.38	7,451.13	7,473.51
Casing	48	5.5000	20.00	L80	2,136.10	7,473.51	9,609.61

Spiral Solid body every 2nd jt

Marker Jt	1	5.5000	20.00	L80	22.19	9,609.61	9,631.80
Casing	4	5.5000	20.00	L80	170.13	9,631.80	9,801.93

Spiral solid body every jt

Float Collar	1	5.5000	20.00	L80	1.25	9,801.93	9,803.18
Casing	1	5.5000	20.00	L80	44.78	9,803.18	9,847.96
Float Shoe	1	5.5000	20.00	L80	2.04	9,847.96	9,850.00

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	365.00	13.375	17.500	Circ	1 - Lead	500	C	14.80
Circ 126 sx to surf								
0.00	1,470.00	9.625	12.250	Circ	1 - Lead	540	C 35/65	13.50
					2 - Tail	210	C	14.80

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
Circ 1 bbl to surf								
4,922.00	9,855.00	5.500	8.750	Circ				
0.00	4,922.00	7.000	8.750	Circ	1 - Lead	385	C 35/65	12.20
					2 - Tail	1025	C	14.80
Circ 1 bbl to surf								

Zone and Perfs**Comments / Completion Summary**

Stg	Top	Btm	Proppant	AIR	AIP	MIR	MIP	ISIP	Acid	Vol
1	9568	9736	244740	112	5484	129	6998	1598	8001	15256
2	9366	9548	246360	118	5638	132	6823		3001	15787
3	9164	9346	250440	119	6583	126	7238		3001	15324
4	8963	9144	251260	124	6549	135	7437		3763	16222
5	8760	8942	245840	123	6685	131	6685		3086	14962
6	8558	8740	239800	126	6405	131	6975		3001	15043
7	8356	8538	241680	131	6661	134	7190	1508	3001	15155
8	8155	8336	239600	124	6638	134	7180	1867	3014	14935
9	7952	8134	249780	122	6640	129	7142	1841	3014	15138
10	7750	7932	247468	120	6562	122	6971	2054	3001	14967
11	7548	7730	238960	124	6694	127	7066	1981	3001	15117
12	7346	7528	238796	124	6730	132	8860	2087	3001	14990
13	7147	7326	249620	117	6481	130	6992	2206	3001	15155
14	6942	7124	237660	122	6766	133	7373	2256	3000	15106
15	6740	6922	250280	129	6451	135	6969		3000	14919
16	6538	6707	242760	128	6534	134	7194		3003	15171
17	6336	6518	244200	132	6483	138	7053	1274	3856	16091
18	6136	6316	248280	132	6370	138	6918	2243	3272	15353
19	5932	6115	247280	133	6327	138	6600	1079	3003	15469
20	5730	5909	245960	130	6336	136	7101	2061	2300	16048
21	5528	5710	242300	126	6761	137	7146	2181	2300	14938
22	5326	5506	242480	130	6785	136	7198	1280	3003	15453
23	5124	5306	246220	132	5978	136	6800	1930	3003	15580

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
5,124.00	5,306.00	Upper Blinbry	A	12/15/2022	12/15/2022	3	30
Stage 23 (3,3,3,3,3,3,3,3,3)							
5,326.00	5,506.00	Upper Blinbry	A	12/15/2022	12/15/2022	3	30
Stage 22 (3,3,3,3,3,3,3,3,3)							
5,528.00	5,710.00	Upper Blinbry	A	12/15/2022	12/15/2022	3	33
Stage 21 (3,3,3,3,3,3,3,3,6)							
5,730.00	5,909.00	Upper Blinbry	A	12/14/2022	12/14/2022	3	33
Stage 20 (3,3,3,3,3,3,3,3,6)							
5,932.00	6,114.00	Upper Blinbry	A	12/14/2022	12/14/2022	3	33
Stage 19 (3,3,3,3,3,3,3,3,6)							
6,136.00	6,316.00	Upper Blinbry	A	12/14/2022	12/14/2022	3	30
Stage 18 (3,3,3,3,3,3,3,3,3)							

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
6,336.00	6,518.00	Upper Blinebry	A	12/13/2022	12/14/2022	3	30
<i>Stage 17 (3,3,3,3,3,3,3,3)</i>							
6,538.00	6,707.00	Upper Blinebry	A	12/13/2022	12/13/2022	3	30
<i>Stage 16 (3,3,3,3,3,3,3,3)</i>							
6,740.00	6,922.00	Upper Blinebry	A	12/13/2022	12/13/2022	4	36
<i>Stage 15 (3,3,3,3,4,4,4,4,4)</i>							
6,942.00	7,124.00	Upper Blinebry	A	12/13/2022	12/13/2022	3	30
<i>Stage 14 (3,3,3,3,3,3,3,3)</i>							
7,147.00	7,326.00	Upper Blinebry	A	12/12/2022	12/12/2022	3	30
<i>Stage 13 (3,3,3,3,3,3,3,3)</i>							
7,346.00	7,528.00	Upper Blinebry	A	12/12/2022	12/12/2022	3	30
<i>Stage 12 (3,3,3,3,3,3,3,3)</i>							
7,548.00	7,730.00	Upper Blinebry	A	12/12/2022	12/12/2022	3	30
<i>Stage 11 (3,3,3,3,3,3,3,3)</i>							
7,750.00	7,932.00	Upper Blinebry	A	12/12/2022	12/12/2022	3	30
<i>Stage 10 (3,3,3,3,3,3,3,3)</i>							
7,952.00	8,134.00	Upper Blinebry	A	12/11/2022	12/11/2022	3	30
<i>Stage 9 (3,3,3,3,3,3,3,3)</i>							
8,155.00	8,336.00	Upper Blinebry	A	12/11/2022	12/11/2022	3	30
<i>Stage 8 (3,3,3,3,3,3,3,3)</i>							
8,356.00	8,538.00	Upper Blinebry	A	12/11/2022	12/11/2022	3	30
<i>Stage 7 (3,3,3,3,3,3,3,3)</i>							
8,558.00	8,740.00	Upper Blinebry	A	12/11/2022	12/11/2022	3	30
<i>Stage 6 (3,3,3,3,3,3,3,3)</i>							
8,760.00	8,942.00	Upper Blinebry	A	12/10/2022	12/10/2022	3	30
<i>Stage 5 (3,3,3,3,3,3,3,3)</i>							
8,963.00	9,144.00	Upper Blinebry	A	12/10/2022	12/10/2022	3	30
<i>Stage 4 (3,3,3,3,3,3,3,3)</i>							
9,164.00	9,346.00	Upper Blinebry	A	12/9/2022	12/9/2022	3	30
<i>Stage 3 (3,3,3,3,3,3,3,3)</i>							
9,366.00	9,548.00	Upper Blinebry	A	12/8/2022	12/8/2022	3	30
<i>Stage 2 (3,3,3,3,3,3,3,3)</i>							
9,568.00	9,750.00	Upper Blinebry	A	12/8/2022	12/8/2022	3	30
<i>Stage 1 (3,3,3,3,3,3,3,3)</i>							
9,759.00	9,765.00	Upper Blinebry	A	12/4/2022		4	36
TOE PREP FOR PUMP DOWN							

Tubing

Date Ran: 12/30/2022

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	142	2.8750	6.50	L80	4,613.46	26.50	4,639.96
<i>Band 3 per jt. First JNT above pump every 3'. Jts ,3/8" cap ran in well.</i>							
ESP Pump	1	4.0000			0.66	4,639.96	4,640.62
<i>Discharge Pump</i>							
ESP Pump	1	4.0000			23.62	4,640.62	4,664.24
<i>E3000, 96 Stages</i>							
ESP Pump	1	4.0000			23.62	4,664.24	4,687.86
<i>E3000, 96 Stages</i>							

ESP Pump	1	4.0000			13.00	4,687.86	4,700.86
<i>G42, 41 Stages</i>							
ESP Intake	2	4.0000			8.94	4,700.86	4,709.80
<i>Double gas sep/intakes: MODEL 400</i>							
ESP Seal	2	4.0000			12.20	4,709.80	4,722.00
<i>Double seals</i>							
ESP Motor	1	4.5000			35.28	4,722.00	4,757.28
<i>NEW, 286 HP . 450 MODEL</i>							
ESP Sensor	1	4.0000			2.80	4,757.28	4,760.08
<i>NEW, Zenith E7</i>							
Tubing Sub	1	2.3750			2.00	4,760.08	4,762.08
<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 209372

ACKNOWLEDGMENTS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 209372
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
<input checked="" type="checkbox"/>	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 209372

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 209372
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	4/21/2023