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State of New Mexico
 Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		WELL API NO. 30-015-33215 5. Indicate Type of Lease STATE ☒ FEE ☐ 6. State Oil & Gas Lease No.
2. Name of Operator Longfellow energy, LP		7. Lease Name or Unit Agreement Name State '20B'
3. Address of Operator 16803 Dallas Parkway, Addison, TX 75001		8. Well Number 19
4. Well Location Unit Letter <u>B</u> : <u>1010</u> feet from the <u>North</u> line and <u>2310</u> feet from the <u>East</u> line Section <u>20</u> Township <u>17S</u> Range <u>29E</u> NMPM County <u>Eddy</u>		9. OGRID Number 372210
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3617'		10. Pool name or Wildcat GRAYBURG JACKSON-SR-Q-G-SA

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
 DOWNHOLE COMMINGLE ☐
 CLOSED-LOOP SYSTEM ☐
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐
 OTHER: Recompletion ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Record Cleanup for approved recompletion.

- (8/17/2020) POOH with rods and pump. POOH with 2 7/8" tubing.
- (8/18/2020) Set CIBP at 3823' with 20' cement.
- Spot 660 gal of acid. Test to 4000#.
- (8/19/2020) Perf San Andres 2556' – 2700'. 30 holes. Brk dwn formation.
- (8/22/2020) Frac San Andres @ 2556' – 2700'. Pump 5630 bbls of slickwater w/ 132,420 # of 100 Mesh and 40/70 White.
- (8/24/2020) RIH with tubing and rods to 2804'. Hang well off.
- Wellbore Diagram Attached
- The Empire: Yeso, East Oil Pool (96610) is now shut-in and the Grayburg Jackson 7RVS-QN-GB-SA (28509) will be the producing field for this well.

Spud Date:

2/9/2004

Rig Release Date:

2/17/2004

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE David Cain TITLE Engineering Technologist DATE 9-18-2020

Type or print name David Cain E-mail address: david.cain@longfellowenergy.com PHONE: 972-590-9876

For State Use Only

APPROVED BY: Staff Manager TITLE Staff Manager DATE 12/1/2020

Conditions of Approval (if any):

Wellbore Schematic (From Surface to TD)

Printed: 11/3/2020

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State 20 B # 19

0

1000

2000

3000

4000

5000

The diagram shows a well profile with depth on the y-axis (0 to 5000 feet). It includes a surface casing, production casing string, and cement plugs. Key depths are marked: 0.00 (Top At), 335.00 (Btm At), 2,600.00 (First Stage), and 4,337.00 (Btm At). Formation tops/bottoms are also indicated: Greyburg (2,066), San Andres (2,356), Glorieta (3,802), and Yeso (3,924).

ID: 81175-019

API # 3001533215

1010 FNL & 2310 FEL

GL Elev: 3,617.00

KOP:

Section 20, Township 17S, Range 29E

EOC:

County, State: Eddy, NM

Fill Depth:

Aux ID:

PBTD: 3,803.00

'KB' correction: 13.7; All Depths Corr To: KB

TD: 4,337.00

BOP: 7 1/16" 5M

Hole Size

Diameter	Top At	Btm At	Date Drilled
12.2500	0.00	335.00	2/10/2004
7.8750	335.00	4,337.00	2/17/2004

Surface Casing

Date Ran: 2/10/2004

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	8	8.6250	24.00	J55	321.50	13.70	335.20

Production Casing String 1

Date Ran:

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	65	5.5000	17.00	J55	2,586.30	13.70	2,600.00
D.V. Tool	1	5.5000			2.00	2,600.00	2,602.00
Casing	42	5.5000	17.00	J55	1,694.00	2,602.00	4,296.00
Float Collar	1	5.5000	17.00	J55	1.00	4,296.00	4,297.00
Casing	1	5.5000	17.00	J55	39.40	4,297.00	4,336.40
Float Shoe	1	5.5000	17.00	J55	1.00	4,336.40	4,337.40

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	335.00	8.625	12.250	Circ	1 - Lead	100	PP Thix	14.40
					2 - Tail	250	PP Thix	14.80
2,600.00	4,337.00	5.500	7.875	Circ	1 - Lead	430	50:50 Poz	14.40
First Stage, Circ 100 sx								
	2,600.00	5.500	7.875	DV Tool	1 - Lead	500	HLPP	12.40
					2 - Tail	130	PP Mixed	14.80
Second stage, did not circ cmt								

Formation Tops / Bottoms

Top At	Bottom At	Formation
2,066		Greyburg
2,356		San Andres
3,802		Glorieta
3,924		Yeso

Zone and Perfs

Glorieta-Yeso, East

Comments / Completion Summary

Yeso - Acidized w/ 43,000 gals of heated 20% & 15% acid w/ 1257 bbls of 40# Gel. AIR - 25 bpm. MIR - 26 bpm. MIP - 1800#. AIP - 1534 psi. ISIP - 980#

USA - Frac w/ 5631 bbls of PW/10 ppg brine, 119 bbls 15% HCL w/ 45 RCN balls. Balled out perfs. AIR- 56 bpm, MIR - 72 bpm, AIP - 3349#, MIP - 4000#. ISIP - 1574#.

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
2,556.00	2,556.00	Upper San Andres	A	8/19/2020		2	2
2,566.00	2,566.00	Upper San Andres	A	8/19/2020		2	2
2,576.00	2,576.00	Upper San Andres	A	8/19/2020		2	2
2,586.00	2,586.00	Upper San Andres	A	8/19/2020		2	2
2,596.00	2,596.00	Upper San Andres	A	8/19/2020		2	2
2,610.00	2,610.00	Upper San Andres	A	8/19/2020		2	2
2,620.00	2,620.00	Upper San Andres	A	8/19/2020		2	2
2,630.00	2,630.00	Upper San Andres	A	8/19/2020		2	2
2,639.00	2,639.00	Upper San Andres	A	8/19/2020		2	2

State 20 B # 19

ID: 81175-019

API # 3001533215

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
2,650.00	2,650.00	Upper San Andres	A	8/19/2020		2	2
2,660.00	2,660.00	Upper San Andres	A	8/19/2020		2	2
2,670.00	2,670.00	Upper San Andres	A	8/19/2020		2	2
2,680.00	2,680.00	Upper San Andres	A	8/19/2020		2	2
2,690.00	2,690.00	Upper San Andres	A	8/19/2020		2	2
2,700.00	2,700.00	Upper San Andres	A	8/19/2020		2	2
3,904.00	3,904.00	YESO	A	2/25/2004	8/18/2020	1	1
3,908.00	3,908.00	YESO	A	2/25/2004	8/18/2020	1	1
3,914.00	3,914.00	YESO	A	2/25/2004	8/18/2020	1	1
3,918.00	3,918.00	YESO	A	2/25/2004	8/18/2020	1	1
3,941.00	3,941.00	YESO	A	2/25/2004	8/18/2020	1	1
3,952.00	3,952.00	YESO	A	2/25/2004	8/18/2020	1	1
3,956.00	3,956.00	YESO	A	2/25/2004	8/18/2020	1	1
3,963.00	3,963.00	YESO	A	2/25/2004	8/18/2020	1	1
3,968.00	3,968.00	YESO	A	2/25/2004	8/18/2020	1	1
3,980.00	3,980.00	YESO	A	2/25/2004	8/18/2020	1	1
3,983.00	3,983.00	YESO	A	2/25/2004	8/18/2020	1	1
3,988.00	3,988.00	YESO	A	2/25/2004	8/18/2020	1	1
3,991.00	3,991.00	YESO	A	2/25/2004	8/18/2020	1	1
3,996.00	3,996.00	YESO	A	2/25/2004	8/18/2020	1	1
4,000.00	4,000.00	YESO	A	2/25/2004	8/18/2020	1	1
4,008.00	4,008.00	YESO	A	2/25/2004	8/18/2020	1	1
4,014.00	4,014.00	YESO	A	2/25/2004	8/18/2020	1	1
4,017.00	4,017.00	YESO	A	2/25/2004	8/18/2020	1	1
4,024.00	4,024.00	YESO	A	2/25/2004	8/18/2020	1	1
4,035.00	4,035.00	YESO	A	2/25/2004	8/18/2020	1	1
4,041.00	4,041.00	YESO	A	2/25/2004	8/18/2020	1	1
4,046.00	4,046.00	YESO	A	2/25/2004	8/18/2020	1	1
4,055.00	4,055.00	YESO	A	2/25/2004	8/18/2020	1	1
4,060.00	4,060.00	YESO	A	2/25/2004	8/18/2020	1	1
4,064.00	4,064.00	YESO	A	2/25/2004	8/18/2020	1	1
4,068.00	4,068.00	YESO	A	2/25/2004	8/18/2020	1	1
4,082.00	4,082.00	YESO	A	2/25/2004	8/18/2020	1	1
4,086.00	4,086.00	YESO	A	2/25/2004	8/18/2020	1	1
4,090.00	4,090.00	YESO	A	2/25/2004	8/18/2020	1	1
4,100.00	4,100.00	YESO	A	2/25/2004	8/18/2020	1	1
4,104.00	4,104.00	YESO	A	2/25/2004	8/18/2020	1	1
4,111.00	4,111.00	YESO	A	2/25/2004	8/18/2020	1	1
4,114.00	4,114.00	YESO	A	2/25/2004	8/18/2020	1	1
4,117.00	4,117.00	YESO	A	2/25/2004	8/18/2020	1	1
4,127.00	4,127.00	YESO	A	2/25/2004	8/18/2020	1	1
4,132.00	4,132.00	YESO	A	2/25/2004	8/18/2020	1	1
4,149.00	4,242.00	YESO	A	2/25/2004	8/18/2020	1	1
4,242.00	4,243.00	YESO	A	2/25/2004	8/18/2020	1	1

Wellbore Plugs and Junk

Top	Bottom	Type	Diameter	Solid	Date
3,803.00	3,823.00	CIBP	5.000	Yes	8/18/2020
Dump bail 20' cmt					

Tubing String 1

Date Ran: 11/3/2020

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Tubing	89	2.8750	6.50	J55	2,821.00	13.70	2,834.70
Seat Nipple	1	2.8750			1.00	2,834.70	2,835.70
Tubing Sub	1	2.8750			4.00	2,835.70	2,839.70
Desander	1	2.8750			19.18	2,839.70	2,858.88
Tubing	9	2.8750			256.82	2,858.88	3,115.70
Pin Collar	1	2.8750			0.50	3,115.70	3,116.20

Wellbore Schematic (From Surface to TD)

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Rod String 1

Date Ran: 11/3/2020

Description	#	Diameter	Rod Box	Grade	Length	Top At	Btm At
Polish Rod	1	1.5000			26.00	0.00	26.00
Pony Rods	1	1.0000			8.00	26.00	34.00
Rods	53	1.0000			1,325.00	34.00	1,359.00
Rods	49	0.8750			1,225.00	1,359.00	2,584.00
Sinker Bars	8	1.5000			200.00	2,584.00	2,784.00
Pump	1	1.5000			20.00	2,784.00	2,804.00

2 Stg HVR, BNC bbl, DV TV & SV, -.009 SMMP, SN/C B&S