

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
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-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.)		WELL API NO. 30-015-26397
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other SWD		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator Longfellow Energy, LP		6. State Oil & Gas Lease No.
3. Address of Operator 8115 Preston Rd., Suite 800, Dallas TX 75001		7. Lease Name or Unit Agreement Name Muskegon 20 State Com
4. Well Location Unit Letter H : 1980 feet from the North line and 660 feet from the East line Section 20 Township 17 S Range 29 E NMPM County Eddy		8. Well Number 1
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3605' GR		9. OGRID Number 372210
		10. Pool name or Wildcat SWD; Cisco

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: ☐

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.

8/24/2022 - Set CIBP @ 9500' Dump bail 35' of cement on top.

Spud Date:

Rig Release Date:

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

SIGNATURE David C. TITLE Engineering Technologist & Regulatory Specialist DATE 10-12-2023

Type or print name David Cain E-mail address: david.cain@longfellowenergy.com PHONE: 972-590-9918

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

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Type or print name David Cain E-mail address: david.cain@longfellowenergy.com PHONE: 972-590-9918

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Conditions of Approval (if any):

Wellbore Schematic

Printed: 10/12/2023

Page 1

Muskegon State 20 Com # 1**API # 30-015-26397**

Muskegon State 20 Com # 1, 10/12/2023

1980 FNL & 660 FEL	GL Elev:	3,605.00	KOP:	
Section 20, Township 17S, Range 29E			EOC:	
County, State: Eddy, NM			Fill Depth:	9,421
Aux ID:			PBTD:	9,500.00
'KB' correction: 15; All Depths Corr To: KB			TD:	10,957.00
			BOP:	7 1/16

Hole Size

Diameter	Top At	Btm At	Date Drilled
17.5000	0.00	445.00	8/28/1990
12.2500	445.00	2,594.00	9/3/1990
7.8750	2,594.00	10,957.00	9/25/1990

Surface Casing

Date Ran: 8/28/1990

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	11	13.3750	48.00	H40	430.00	15.00	445.00

Intermediate Casing

Date Ran: 9/3/1990

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	64	8.6250	24.00	J55	2,579.00	15.00	2,594.00

Production Casing

Date Ran: 9/25/1990

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	150	5.5000	17.00	J55	6,689.00	15.00	6,704.00
Casing	50	5.5000	17.00	N80	2,235.00	6,704.00	8,939.00
Casing	45	5.5000	17.00	S-95	2,018.00	8,939.00	10,957.00

Production Liner

Date Ran: 5/31/2023

Description	#	Diameter	Weight	Grade	Length	Top At	Btm At
Casing	207	4.5000	12.60	13CR95	6,219.55	15.00	6,234.55
Marker Jt	1	4.5000	12.60	13CR95	24.62	6,234.55	6,259.17
Casing	91	4.5000	12.60	13CR95	2,743.44	6,259.17	9,002.61
Float Collar	1	4.5000			1.69	9,002.61	9,004.30
Casing	1	4.5000	12.60	13CR95	30.08	9,004.30	9,034.38
Float Shoe	1	4.5000	12.60	13CR95	1.74	9,034.38	9,036.12

Cement

Top At	Btm At	I D	O D	TOC Per	# - Type	# Sx	Class	Wt.
0.00	445.00	13.375	17.500	Circ	1 - Lead	200	Thix	
					2 - Tail	475	C	
					3 - Lead	100	C	
					4 - Lead	150	C	

Did not circ. Tag 1" @ 200'. Pump 100 sx. Tag TOC @ 135', pump 150 sx and circ cmt.

0.00	2,594.00	8.625	12.250	Circ	1 - Lead	1150	C	
					2 - Tail	300	C	

Circ 159 sx

8,140.00	10,957.00	5.500	7.875	TS	1 - Lead	700	H	15.60
2,950.00	3,910.00	5.500	7.875	CBL	1 - Lead	120	60/40 Poz	

Suicide squeeze f/ squeeze holes through casing leak

0.00	9,035.00	4.500	5.500	Circ	1 - Lead	510	Lite	13.00
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4.5" Flush Jt Cement Operation

5,600.00	8,140.00	5.500	7.875	CBL	1 - Lead	320		13.50
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Suicide Squeeze

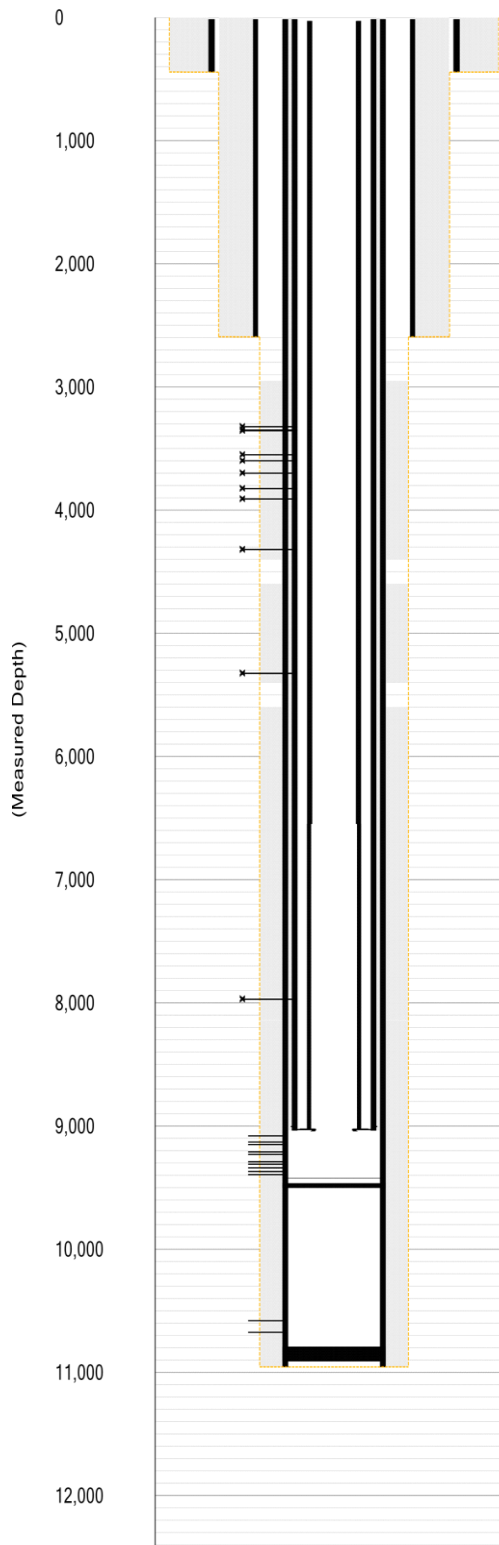
4,600.00	5,400.00	5.500	7.875	CBL	1 - Lead	120		13.50
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Suicide Squeeze

3,910.00	4,400.00	5.500	7.875	CBL	1 - Lead	125		13.50
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Squeeze

9,465.00	9,500.00	5.000	5.500	Est				
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Dump bail 35' cement

Wellbore Schematic

Printed: 10/12/2023

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Muskegon State 20 Com # 1

API # 30-015-26397

Zone and Perfs

Comments / Completion Summary

Ran temp survey after pumping, shows 8140'. Found casing leak between 3314' - 3825'. Squeeze holes at 3910'. Suicide squeeze up 5 1/2" for holes. 3356' - 3551' still losing some psi ~60 psi for 60 min.

5.5" casing inspection log showed bad casing from 2600' - 4200'; 4500' - 7000' & 7500' - 8000'. Holes @ 7827', 3930', 3530', 3499', 3484', 3386'.

Attempted suicide squeezes from 7970' - 4200' to put cement behind pipe. Tried resin and cement balanced squeezes from 4000' - 2500' to repair holes. Could not get casing to test. Leaks ranged from .1 - 20 psi/min leak-off. Circulated leak-off 10 ppg mud multiple times, had mixed results but could not sustain pressure test. Decision to run 4.5" Flush It inside of 5.5" to repair casing integrity.

Stg	Top	Btm	AIR	AIP	MIR	MIP	ISIP	AcidVol	Acid %	
TotVol	Notes									
1	9370	9395	3.3	6000	3.6	7500	4020	7500	20	290
150 BS, no ball act										
2	9310	9340	5.5	5550	6.2	8000	4487	8000	20	290
180 BS, Big acid brk										
3	9080	9290	7.5	5350	9	5500	1450	40000	28	1110
360 BS, no Ball act										

Perforations

Top	Bottom	Formation	Status	Opened	Closed	# / Ft	Ttl #
3,323.00	3,350.00	Casing Leak	PA	3/7/2008	3/7/2008		50
Casing Leak 3314 - 3825'							
3,356.00	3,551.00	Casing Leak	PA	3/7/2008	12/23/2022		50
Active Leak Area							
3,600.00	3,700.00	Casing Leak	PA	3/7/2008	3/7/2008		50
Casing Leak 3314 - 3825'							
3,700.00	3,825.00	Casing Leak	PA	3/7/2008	3/7/2008		50
Casing Leak 3314 - 3825'							
3,910.00	3,910.00	Squeeze	PA	3/7/2008	3/7/2008		4
Squeeze holes below Casing leak							
4,320.00	4,321.00	Squeeze	PA	9/5/2022	9/10/2022	4	4
Squeeze holes							
5,325.00	5,326.00	Squeeze	PA	9/5/2022	9/10/2022	4	4
Squeeze holes							
7,970.00	7,971.00	Squeeze	PA	9/5/2022	9/10/2022	4	4
Squeeze holes below leak							
9,080.00	9,130.00	Canyon	A	10/17/2022		4	200
5TH INTERVAL OF UPPER CANYON, 50' INTERVAL.							
9,150.00	9,210.00	Canyon	A	10/17/2022		4	240
4TH INTERVAL OF UPPER CANYON, 60' INTERVAL.							
9,230.00	9,290.00	Canyon	A	10/14/2022		4	240
3RD INTERVAL OF UPPER CANYON, 60' INTERVAL.							
9,310.00	9,340.00	CISCO	A	10/13/2022		4	120
2ND INTERVAL OF CISCO CANYON, 30' INTERVAL.							
9,370.00	9,395.00	CISCO	A	10/6/2022		4	100
1ST INTERVAL OF CISCO CANYON, 25' INTERVAL							
10,581.00	10,674.00	Morrow	TA	12/29/1990			20
CIBP @ 9500'							

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CONDITIONS

Action 275277

CONDITIONS

Operator: LONGFELLOW ENERGY, LP 8115 Preston Road Dallas, TX 75225	OGRID: 372210
	Action Number: 275277
	Action Type: [C-103] Sub. Workover (C-103R)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	10/13/2023