

STATE OF NEW MEXICO  
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION

**APPLICATION OF LONGFELLOW ENERGY, LP  
FOR COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO**

**Case No. 21860**



*Marley State Com 31 AB*  
001H, 002H, 003H, 004H, 005H

**Supplemental Exhibits submitted September 2, 2021**  
**Initial Exhibits submitted June 15, 2021**

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Amended Checklist

Updated Landman Exhibit A-5: Chronology of Contacts

Geologist Supplemental Affidavit

Amended Geologist Exhibit B-3: Spacing Unit Schematic

Amended Geologist Exhibit B-5: Yeso Structural Cross Section Map

**COMPULSORY POOLING APPLICATION CHECKLIST****ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS**

<b>Case: 21860</b>	<b>APPLICANT'S RESPONSE</b>
<b>Date</b>	<b>September 9, 2021</b>
Applicant	Longfellow Energy, LP
Designated Operator & OGRID (affiliation if applicable)	372210
Applicant's Counsel:	Montgomery & Andrews, P.A. (Sharon Shaheen & Ricardo Gonzales)
Case Title:	Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico
Entries of Appearance/Intervenors:	Contango Resources, Inc.; V-F Petroleum, Inc.
Well Family	Marley State Com 31AB
<b>Formation/Pool</b>	
Formation Name(s) or Vertical Extent:	Yeso Formation
Primary Product (Oil or Gas):	Oil
Pooling this vertical extent:	Yeso Formation
Pool Name and Pool Code:	Red Lake; Glorieta-Yeso, Northeast [96836]
Well Location Setback Rules:	Statewide Rules
Spacing Unit Size:	320 acres, more or less
<b>Spacing Unit</b>	
Type (Horizontal/Vertical)	Horizotal
Size (Acres)	327.09 acres, more or less
Building Blocks:	Quarter-quarter section (40 ac)
Orientation:	East-West
Description: TRS/County	N/2 of Section 31-17S-28E
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
<b>Other Situations</b>	
Depth Severance: Y/N. If yes, description	See Exhibit A-4
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Tract 1a = 12.50%, Tract 1 = 100.00%, Tract 2 = 100.00%, Tract 3 = 30.06%, Tract 4a = 0.00%, Tract 4 = 34.03%, Tract 5 = 34.03%, Tract 6 = 50.00%, Tract 7 = 0.00%; see Exhibit A-2 & A-4
<b>Well(s)</b>	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	Marley State Com 31AB 001H, API 30-015-_____ SHL: 1,578' FNL and 490' FWL of Section 32-17S-28E, BHL: 361' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~ 342' FNL and 100' FEL of Section 31-17S-28E); LTP (~ 361' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,600'), MD (~ 9,450')

Well #2	Marley State Com 31AB 002H, API 30-015-_____ SHL: 1,603' FNL and 490' FWL of Section 32-17S-28E, BHL: 843' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 4,200' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~824' FNL and 100' FEL of Section 31-17S-28E); LTP (~843' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,175'), MD (~ 9,800')
Well #3	Marley State Com 31AB 003H, API 30-015-_____ SHL: 1,628' FNL and 490' FWL of Section 32-17S-28E, BHL: 1,325' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~1,306' FNL and 100' FEL of Section 31-17S-28E); LTP (~1,325' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,675'), MD (~ 9,250')
Well #4	Marley State Com 31AB 004H, API 30-015-_____ SHL: 1,653' FNL and 490' FWL of Section 32-17S-28E, BHL: 1,807' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 4,200' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~1,787' FNL and 100' FEL of Section 31-17S-28E); LTP (~1,807' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,225'), MD (~ 9,800')
Well #5	Marley State Com 31AB 005H, API 30-015-_____ SHL: 1,678' FNL and 490' FWL of Section 32-17S-28E, BHL: 2,288' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~2,269' FNL and 100' FEL of Section 31-17S-28E); LTP (~ 2,288' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,725'), MD (~ 9,350')
<b>AFE Capex and Operating Costs</b>	
Drilling Supervision/Month \$	\$8,000; see Exhibit A, Paragraph 18
Production Supervision/Month \$	\$800; see Exhibit A, Paragraph 18

Justification for Supervision Costs	Please see AFE at Exhibit A-7
Requested Risk Charge	200%; see Exhibit A, Paragraph 19
<b>Notice of Hearing</b>	
Proposed Notice of Hearing	Submitted with online filing of Application
Proof of Mailed Notice of Hearing (20 days before hearing)	Exhibit C; see Exhibit A-8
Proof of Published Notice of Hearing (10 days before hearing)	Exhibit C
<b>Ownership Determination</b>	
Land Ownership Schematic of the Spacing Unit	See Exhibits A-2, A-3 & A-4
Tract List (including lease numbers and owners)	Exhibits A-2, A-3 & A-4
Pooled Parties (including ownership type)	Exhibit A-4
Unlocatable Parties to be Pooled	None
Ownership Depth Severance (including percentage above & below)	See Exhibit A-4
<b>Joinder</b>	
Sample Copy of Proposal Letter	Exhibit A-7
List of Interest Owners	Exhibit A-4
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5
Overhead Rates In Proposal Letter	See Exhibit A-7
Cost Estimate to Drill and Complete	See AFE at Exhibit A-7
Cost Estimate to Equip Well	See AFE at Exhibit A-7
Cost Estimate for Production Facilities	See AFE at Exhibit A-7
<b>Geology</b>	
Summary (including special considerations)	Exhibit B-1
Spacing Unit Schematic	Amended Exhibit B-3
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-7
Well Orientation (with rationale)	Exhibit B-1
Target Formation	Exhibits B-4 & B-6 and Amended Exhibit B-5
HSU Cross Section	Exhibit B-6
Depth Severance Discussion	See Exhibit A-4
<b>Forms, Figures and Tables</b>	
C-102	Exhibit A-6
Tracts	Exhibit A-2
Summary of Interests, Unit Recapitulation (Tracts)	Exhibit A-2, A-3 & A-4
General Location Map (including basin)	Exhibit A-1
Well Bore Location Map	Amended Exhibit B-3
Structure Contour Map - Subsea Depth	Exhibit B-2
Cross Section Location Map (including wells)	Amended Exhibit B-5
Cross Section (including Landing Zone)	Exhibit B-6
<b>Additional Information</b>	
Special Provisions/Stipulations	
<b>CERTIFICATION: I hereby certify that the information provided in this checklist is complete and accurate.</b>	
<b>Printed Name</b> (Attorney or Party Representative):	Sharon Shaheen
<b>Signed Name</b> (Attorney or Party Representative):	<i>Sharon I Shaheen</i>
<b>Date:</b>	9/2/2021

Owner	Contact Type	Notes
Contango Resources, Inc.	Letter, Emails and Phone Calls	Evaluating property, have not reached an agreement
ZPZ Delaware I, LLC	Letter, Emails and Phone Calls	Not interested in assigning, signed PPLA, will wait to elect under pooling order
Apache Corp.	Letter, Emails and Phone Calls	Not interested in assigning, signed PPLA, will wait to elect under pooling order
SEP Permian, LLC	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Joan Hudson Moore	Letter and Phone Calls	Letter offer, haven't received a response, multiple attempts to reach owner
Jonel Susan Grasso Howard	Letter and Phone Calls	Letter offer, haven't received a response, multiple attempts to reach owner
Jane Ann Hudson Davis	Letter and Phone Calls	Letter offer, haven't received a response, multiple attempts to reach owner
Chisos, Ltd	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Mel Riggs	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Mark Tisdale	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Mark Heinen	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Debra Latham	Letter and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Debra Latham, Trustee of the Latham Family Trust	Letter and Phone Calls	Not interested in assigning, will wait to elect under pooling order
Greg Benton	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order
WPX Energy Permian, LLC (Devon)	Letter, Emails and Phone Calls	Not interested in assigning, will wait to elect under pooling order

UPDATED EXHIBIT A-5  
Longfellow Energy, LP  
NMOCD Case No. 21860  
SEPTEMBER 9, 2021

**STATE OF NEW MEXICO  
DEPARTMENT OF ENERGY, MINERALS AND NATURAL RESOURCES  
OIL CONSERVATION DIVISION**

**APPLICATION OF LONGFELLOW ENERGY, LP  
FOR COMPULSORY POOLING,  
EDDY COUNTY, NEW MEXICO**

**Case No. 21860**

**SUPPLEMENTAL AFFIDAVIT OF JENNIFER EKER**

I, being duly sworn on oath, state the following:

1. I am over the age of 18 and have the capacity to execute this supplemental affidavit, which is based on my personal knowledge.

2. I am a petroleum geologist employed by Longfellow Energy, LP (“Longfellow”) and am familiar with the subject application and geology involved.

3. This supplemental affidavit is submitted in connection with the filing by Longfellow of the above-referenced compulsory pooling application pursuant to 19.15.4.12(A)(1) NMAC.

4. This affidavit is supplemental to the affidavit I previously submitted on June 15, 2021, in support of Case No. 21860.

5. Paragraph 3 in my previous affidavit refers to Exhibit B-3, a Spacing Unit Schematic showing the Yeso structure with 50’ contour intervals, which illustrates the location of the HSU by a red outline, the approximate locations of the proposed wells, and whether the wells are considered bench 1 “Paddock” or bench 2 “Blinebry. Due to the change in trajectory, I have amended Exhibit B-3 and now submit an **Amended Exhibit B-3**.

6. Paragraph 5 in my previous affidavit refers to Exhibit B-5, which is a Yeso structural cross section map with 50’ contour intervals with the location of the HSU outlined in

**SUPPLEMENTAL EXHIBIT B  
Longfellow Energy, LP  
NMOCD Case No. 21860  
SEPTEMBER 9, 2021**

red, the approximate locations of the proposed wells, and whether the wells are considered bench 1 “Paddock” or bench 2 “Blinebry”. Due to the change in trajectory, I have amended Exhibit B-5 and now submit an **Amended Exhibit B-5**.

7. Paragraph 8 in my previous affidavit refers to the total vertical and measured depths of the Marley State Com 31 AB 001H through 005H wells (collectively, the “Marley State Com 31 AB wells.”). The total vertical and measured depths of the Marley State Com 31 AB wells have been amended and are now estimated as follows:

	MD	TVD
Marley State Com 31 AB 001H	9450’	3600’
Marley State Com 31 AB 002H	9800’	4175’
Marley State Com 31 AB 003H	9250’	3675’
Marley State Com 31 AB 004H	9800’	4225’
Marley State Com 31 AB 005H	9350’	3725’

8. Paragraph 9 in my previous affidavit refers to the true vertical landing depth of the target formation for the bench 1 “Paddock” wells (001H, 003H, 005H) and the bench 2 “Blinebry” wells (002H, 004H) based on the structural cross section, Exhibit B-6. The true vertical landing depths for the bench 1 “Paddock” wells and bench 2 “Blinebry” wells are amended as follows: The true vertical landing depth of the target formation is approximately 3,650’ for the bench 1 “Paddock” wells (001H, 003H, 005H), and approximately 4,200’ for the bench 2 “Blinebry” wells (002H, 004H) based on the structural cross section, Exhibit B-6.

9. The Amended Exhibits to this Affidavit were prepared by me, or compiled from Longfellow’s business records.

10. The foregoing is correct and complete to the best of my knowledge and belief.

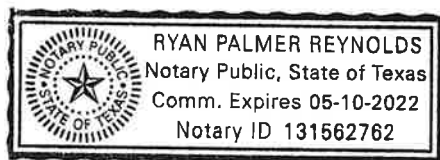


FURTHER AFFIANT SAYETH NAUGHT

  
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Jennifer Eker

STATE OF TEXAS                    )  
  )ss  
COUNTY OF DALLAS            )

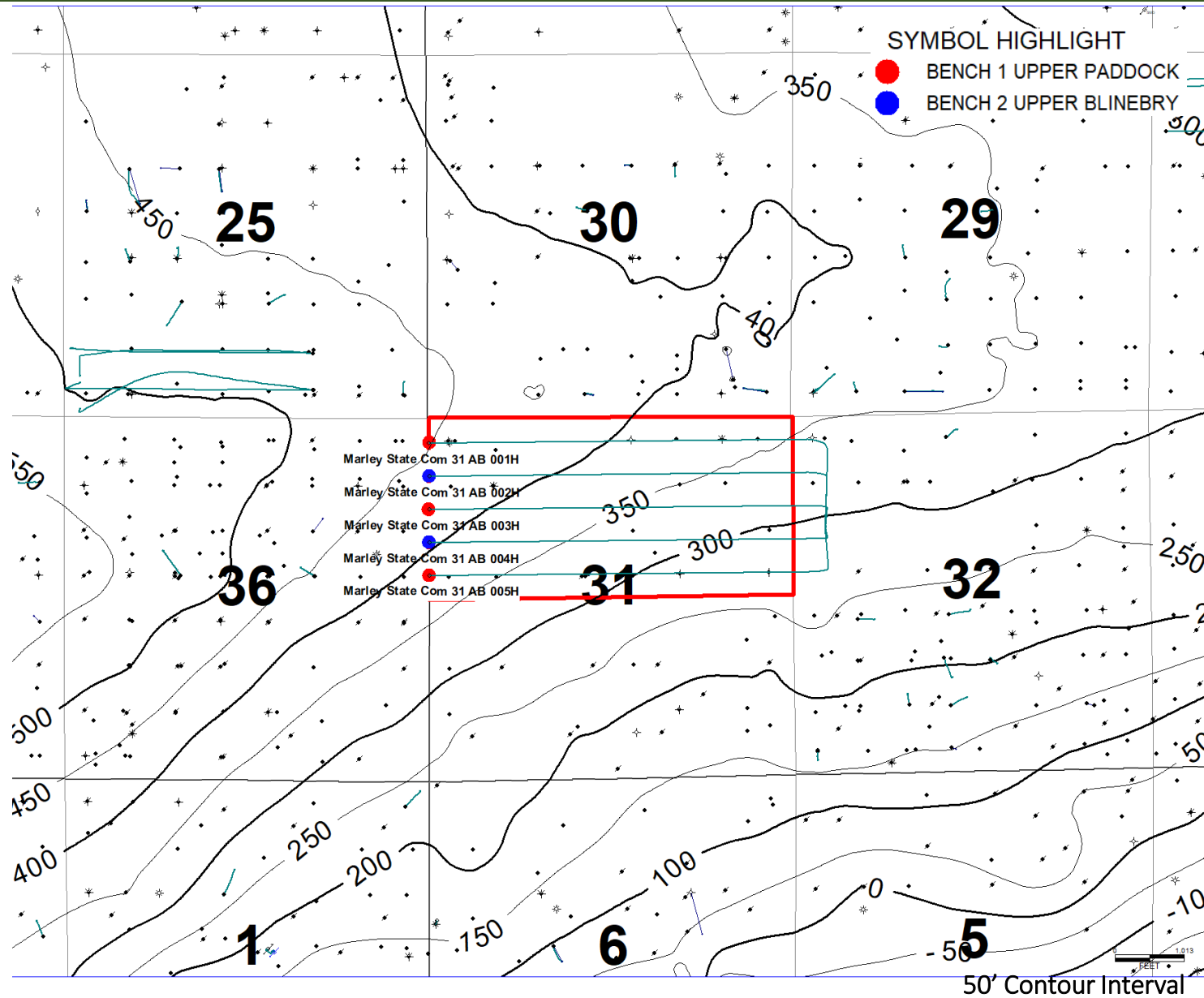
Subscribed to and sworn before me this 2nd day of September, 2021.



  
\_\_\_\_\_  
Notary Public

My Commission expires 5/10/2022.

# Paddock Structure (TVDS)



# Marley 31 AB Cross Section Line

