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

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

Case No. 23081



Marley State Com 31CD 001H, 002H, 003H, 004H, and 005H

November 17, 2022

.

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Tab 1.

COMPULSORY/POOLANG APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS

Case: 21860	APPLICANT'S RESPONSE
Date	November 17, 2022
Applicant	Longfellow Energy, LP
Designated Operator & OGRID (affiliation if applicable)	372210
Applicant's Counsel: Case Title:	Montgomery & Andrews, P.A. (Sharon Shaheen & Ricardo Gonzales) Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico
Entries of Appearance/Intervenors:	Apache Corporation
Well Family	Marley State Com 31CD
Formation/Pool	
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
Spacing Unit	
Type (Horizontal/Vertical)	Horizontal
Size (Acres)	320 acres, more or less
Building Blocks:	Quarter-quarter section (40 ac)
Orientation:	West-East
Description: TRS/County	S/2 of Section 31-17S-28E
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	No
Proximity Tracts: If yes, description	Yes; N/2 S/2 Sec. 21, T17S-R28E; see Exhibit A, para. 2
Proximity Defining Well: if yes, description	Marley State Com 31 CD 003H
Applicant's Ownership in Each Tract	Tract 1 = 0.00%, Tract 2 = 50.00%, Tract 3 = 71.875.00%, Tract 4 = 18.055556%, Tract 5 = 79.375444%
Well(s)	
Name & API (if assigned), surface and bottom hole location, footages, completion target, orientation, completion status (standard or non-standard)	
Well #1	Marley State Com 31CD 001H SHL: 2360' FSL and 1208' FEL of Section 36-17S-27E, BHL: 2262' FSL and 20' FEL of Section 31-17S-28E Completion Target: Yeso at approximately 3,800' Well Orientation: West to East Completion expected to be standard
Horizontal Well First and Last Take Points	FTP (~ 2278' FSL and 100' FWL of Section 31-17S-28E); LTP (~ 2262' FSL and 100' FEL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,800'), MD (~ 9,400')

Weiht2,	Marley State Com 31CD 002H	D
Welk#2ceived by OCD: 11/10/2022 4:45:15 PM	SHL: 2,340' FSL and 1208' FEL of Section 36-17S-27E,	Page 5 of 10
	BHL: 1782' FSL and 20' FEL of Section 31-17S-28E	
	Completion Target: Yeso at approximately 4,400'	
	Well Orientation: West to East	
	Completion expected to be standard	
Horizontal Well First and Last Take Points	FTP (~1797' FSL and 100' FWL of Section 31-17S-28E);	
	LTP (~1782' FSL and 100' FEL of Section 31-17S-28E)	
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,400'), MD (~ 10,000')	
Well #3	Marley State Com 31AB 003H	
	SHL: 824' FSL and 658' FEL of Section 36-17S-27E,	
	BHL: 1,300' FSL and 20' FEL of Section 31-17S-28E	
	Completion Target: Yeso at approximately 3,850'	
	Well Orientation: West to East	
	Completion expected to be standard	
Horizontal Well First and Last Take Points	FTP (~1,315' FSL and 100' FWL of Section 31-17S-28E);	
	LTP (~1,300' FSL and 100' FEL of Section 31-17S-28E)	
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,850'), MD (~ 9,600')	
Well #4	Marley State Com 31CD 004H	
	SHL: 841' FSL and 622' FEL of Section 36-17S-27E,	
	BHL: 818' FSL and 20' FEL of Section 31-17S-28E	
	Completion Target: Yeso at approximately 4,450'	
	Well Orientation: West to East	
	Completion expected to be standard	
Horizontal Well First and Last Take Points	FTP (~834' FSL and 100' FWL of Section 31-17S-28E); LTP (~818' FSL and 100' FEL of Section 31-17S-28E)	
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,450'), MD (~ 10,200')	
Well #5	Marley State Com 31CD 005H	
	SHL: 833' FSL and 640' FEL of Section 36-17S-27E,	
	BHL: 337' FSL and 20' FEL of Section 31-175-28E	
	Completion Target: Yeso at approximately 3,900'	
	Well Orientation: West to East	
	Completion expected to be standard	
Horizontal Well First and Last Take Points	FTP (~325' FSL and 100' FWL of Section 31-17S-28E);	
	LTP (~ 337' FSL and 100' FEL of Section 31-17S-28E)	
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,900'), MD (~ 9,600')	
AFE Concy and Onersting Costs		
AFE Capex and Operating Costs Drilling Supervision/Month \$	¢9.000, con Evhibit A. Daragraph 1E	
	\$8,000; see Exhibit A, Paragraph 15	
Production Supervision/Month \$	\$800; see Exhibit A, Paragraph 15	

JustRicacion de Balandisi 81/2022 4:45:15 PM	Please see AFEs at Exhibit A-7	Page 6 of 1
Requested Risk Charge	200%; see Exhibit A, Paragraph 16	
Notice of Hearing		
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	
Ownership Determination		
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 Ownership Depth Severance (including percentage above & below)	See Exhibit C, Exhibit A attached thereto	_
Joinder		
Sample Copy of Proposal Letter	Exhibit A-7	
List of Interest Owners	Exhibit A-4	-1
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5	-1
Overhead Rates In Proposal Letter	See Exhibit A-7	
Cost Estimate to Drill and Complete	See AFEs at Exhibit A-7	
Cost Estimate to Equip Well	See AFEs at Exhibit A-7	
Cost Estimate for Production Facilities	See AFEs at Exhibit A-7	
Geology		
Summary (including special considerations)	Exhibit B, para. 14	
Spacing Unit Schematic	Exhibit B-3	
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-7	
Well Orientation (with rationale)	Exhibit B, para. 14(d)	
Target Formation	Exhibit B-4	
HSU Cross Section	Exhibits B-5 & B-6	
Depth Severance Discussion	N/A	
Forms, Figures and Tables		
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	Exhibit B-3	
Structure Contour Map - Subsea Depth	Exhibit B-2	
Cross Section Location Map (including wells)	Exhibit B-5	
Cross Section (including Landing Zone)	Exhibit B-6	_
Additional Information		
Special Provisions/Stipulations		
CERTIFICATION: I hereby certify that the information provi	ded in this checklist is complete and accurate.	
Printed Name (Attorney or Party Representative):	Sharon Shaheen	
Signed Name (Attorney or Party Representative):	Sharon I Shakeen	
Date:	11/10/202	2

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Tab 2.

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.

APPLICATION

Longfellow Energy, LP, ("Longfellow"), OGRID No. 372210, through its undersigned counsel Montgomery & Andrews, P.A. (Sharon T. Shaheen and Ricardo S. Gonzales), hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, seeking an order pooling all mineral interests in the Yeso formation (Red Lake; Glorieta-Yeso, Northeast [96836]) in a standard 320-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the S/2 of Section 31, Township 17 South, Range 28 East in Eddy County, New Mexico. In support of its application, Longfellow states as follows:

1. Longfellow is a working interest owner in the proposed HSU and has the right to drill thereon.

2. Longfellow proposes to drill the following five (5) one-mile wells in the proposed HSU:

- Marley State Com 31CD 001H well, to be horizontally drilled from an approximate surface hole location 2098' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 2266' FSL and 20' FEL of Section 31, T17S-R28E.
- Marley State Com 31CD 002H well, to be horizontally drilled from an approximate surface hole location 2078' FSL and 332' FEL of Section 36, T17S-

R27E, to an approximate bottom hole location 1786' FSL and 20' FEL of Section 31, T17S-R28E.

- Marley State Com 31CD 003H well, to be horizontally drilled from an approximate surface hole location 805' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1304' FSL and 20' FEL of Section 31, T17S-R28E.
- Marley State Com 31CD 004H well, to be horizontally drilled from an approximate surface hole location 785' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 822' FSL and 20' FEL of Section 31, T17S-R28E.
- Marley State Com 31CD 005H well, to be horizontally drilled from an approximate surface hole location 765' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 341' FSL and 20' FEL of Section 31, T17S-R28E.

3. The Marley State Com 31CD 003H well is a proximity well that will be located within the S/2 S/2 of Section 31, T17S-R28E. Its completed interval will be less than 330' from the N/2 S/2 of Section 31, T17S-R28E. Longfellow is therefore including the N/2 S/2 of Section 31, T17S-R28E as proximity tracts under 19.15.16.15(B)(1)(b) NMAC.

4. With the proximity tracts included, the first and last take points and completed intervals meet the setback requirements set forth in the statewide rules for horizontal oil wells.

5. Longfellow has in good faith sought and been unable to obtain voluntary agreement for the development of these lands from all of the mineral interest owners in the HSU.

6. Approval of the HSU and the pooling of all mineral interest owners in the Yeso formation underlying the HSU will avoid the drilling of unnecessary wells, prevent waste, and protect correlative rights.

7. In order to permit Longfellow to obtain its just and fair share of the oil and gas underlying the subject lands, all uncommitted interests in this HSU should be pooled and Longfellow should be designated the operator of the HSU.

WHEREFORE, Longfellow requests that this application be set for hearing before an examiner of the Oil Conservation Division on October 6, 2022, and that, after notice and hearing as required by law, the Division enter an order:

A. Creating a standard 320-acre, more or less, horizontal spacing and proration unit comprised of the S/2 of Section 31, Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico.

B. Pooling all mineral interests in the Yeso formation underlying the HSU;

C. Allowing the drilling of the Marley State Com 31CD 001H well, Marley State Com 31CD 002H well, Marley State Com 31CD 003H well, Marley State Com 31CD 004H well, and Marley State Com 31CD 005H well in the proposed HSU.

D. Designating Longfellow as operator of the HSU and the wells to be drilled thereon;

E. Authorizing Longfellow to recover its costs of drilling, equipping and completing the wells;

F. Approving the operating charges and costs of supervision while drilling of \$8,000/month and, after completion, \$800/month, together with a provision adjusting the rates pursuant to the COPAS accounting procedures; and

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G. Imposing a 200% penalty for the risk assumed by Longfellow in drilling and completing the wells against any interest owner who does not voluntarily participate in the drilling of the wells.

Respectfully submitted,

MONTGOMERY & ANDREWS, P.A.

<u>/s/ Sharon T. Shaheen</u> Sharon T. Shaheen Ricardo S. Gonzales Post Office Box 2307 Santa Fe, NM 87504-2307 (505) 986-2678 <u>sshaheen@montand.com</u> <u>rgonzales@montand.com</u>

Attorneys for Longfellow Energy, LP

Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the Division pooling all uncommitted interests in the Yeso formation (Red Lake; Glorieta-Yeso, Northeast [96836]) in a standard 320acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the S/2 of Section 31, Township 17 South, Range 28 East in Eddy County, New Mexico. The HSU is to be dedicated to the following one-mile wells: (1) Marley State Com 31CD 001H well, to be horizontally drilled from an approximate surface hole location 2098' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 2266' FSL and 20' FEL of Section 31, T17S-R28E; (2) Marley State Com 31CD 002H well, to be horizontally drilled from an approximate surface hole location 2078' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1786' FSL and 20' FEL of Section 31, T17S-R28E; (3) Marley State Com 31CD 003H well, to be horizontally drilled from an approximate surface hole location 805' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1304' FSL and 20' FEL of Section 31, T17S-R28E; (4) Marley State Com 31CD 004H well, to be horizontally drilled from an approximate surface hole location 785' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 822' FSL and 20' FEL of Section 31, T17S-R28E; and (5) Marley State Com 31CD 005H well, to be horizontally drilled from an approximate surface hole location 765' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 341' FSL and 20' FEL of Section 31, T17S-R28E. The Marley State Com 31CD 003H well is a proximity well located within the S/2 S/2 of Section 31, T17S-R28E. Its completed interval will be less than 330' from the N/2 S/2 of Section 31, T17S-R28E. Longfellow therefore proposes to include the N/2 S/2 of Section 31, T17S-R28E as proximity tracts under 19.15.16.15(B)(1)(b) NMAC. With the proximity tracts included, the first and last take points and completed intervals meet the setback requirements set forth in the statewide rules for horizontal oil wells. Also to be considered will be the cost of drilling and completing the wells and the allocation of the costs, the designation of Applicant as Operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 12 miles southeast of Artesia City, New Mexico.

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Tab 3.

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. 23081

AFFIDAVIT OF LANDMAN RYAN REYNOLDS

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

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

2. I am a landman employed as Land Manager with Longfellow Energy, LP ("Longfellow"), and I am familiar with the subject applications and the lands involved.

3. This affidavit is submitted in connection with the above-referenced application.

4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. My credentials as a petroleum landman have been accepted by the Division and made a matter of record previously. My education and work experience are as follows: I graduated from the University of Oklahoma in 2011 with a Bachelor of Arts & Sciences degree in Biomedical Science and Personal Health. I have been employed with Longfellow since 2017. Prior to being employed by Longfellow, I worked as a Landman, Project Manager and Land Manager in various states since 2010. I have been working on New Mexico oil and gas matters for approximately 5 years.

5. In Case No. 23081, Longfellow seeks an order pooling all uncommitted interests in the Yeso formation (Red Lake; Glorieta-Yeso, Northeast [96836]) in a standard 320-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the S/2 of Section 31. Township

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Exhibit A Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022

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17 South, Range 28 East in Eddy County, New Mexico. Longfellow proposes to drill the following five (5) one-mile wells in the proposed HSU:

- a. Marley State Com 31CD 001H well, to be horizontally drilled from an approximate surface hole location 2360' FSL and 1208' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 2262' FSL and 20' FEL of Section 31, T17S-R28E. The first take point will be located at approximately 2278' FSL and 100' FWL of Section 31, T17S-R28E. The last take point will be located at approximately 2262' FSL and 100' FEL of Section 31, T17S-R28E.
- b. Marley State Com 31CD 002H well, to be horizontally drilled from an approximate surface hole location 2340' FSL and 1208' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1782' FSL and 20' FEL of Section 31, T17S-R28E. The first take point will be located at approximately 1797' FSL and 100' FWL of Section 31, T17S-R28E. The last take point will be located at approximately 1782' FSL and 100' FEL of Section 31, T17S-R28E.
- c. Marley State Com 31CD 003H well, to be horizontally drilled from an approximate surface hole location 824' FSL and 658' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1300' FSL and 20' FEL of Section 31, T17S-R28E. The first take point will be located at approximately 1315' FSL and 100' FWL of Section 31, T17S-R28E. The last take point will be located at approximately 1300' FSL and 100' FEL of Section 31, T17S-R28E.
- d. Marley State Com 31CD 004H well, to be horizontally drilled from an approximate surface hole location 841' FSL and 622' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 818' FSL and 20' FEL of Section

31, T17S-R28E. The first take point will be located at approximately 834' FSL and 100' FWL of Section 31, T17S-R28E. The last take point will be located at approximately 818' FSL and 100' FEL of Section 31, T17S-R28E.

e. Marley State Com 31CD 005H well, to be horizontally drilled from an approximate surface hole location 833' FSL and 640' FEL of Section 36, T17SR27E, to an approximate bottom hole location 337' FSL and 20' FEL of Section 31, T17S-R28E. The first take point will be located at approximately 325' FSL and 100' FWL of Section 31, T17S-R28E. The last take point will be located at approximately 337' FSL and 100' FEL of Section 31, T17S-R28E.

2. The Marley State Com 31 CD 003H well is a proximity well that will be located within the S/2 S/2 of Section 31, T17S-R28E. Its completed interval will be less than 330' from the N/2 S/2 of Section 31, T17S-R28E. Longfellow is therefore including the N/2 S/2 of Section 31, T17S-R28E as proximity tracts under 19.15.16.15(B)(1)(b) NMAC.

3. With the proximity tracts included, the first and last take points and completed intervals meet the setback requirements set forth in the statewide rules for horizontal oil wells.

4. A general location map is attached as **Exhibit A-1**.

5. A map illustrating the tracts in the proposed HSU and the ownership of each individual tract can be found in the exhibit package as **Exhibit A-2**.

6. A map illustrating the unit ownership can be found in the exhibit package as **Exhibit A-3**.

7. The ownership breakdown of interests and a list of parties to be pooled can be found at **Exhibit A-4**.

8. A depth severance does not exist.

9. A chronology of contacts with the non-joined working interest owners is attached as **Exhibit A-5**.

10. The location of the proposed wells within the respective HSU is depicted in the draft C-102 Forms attached as **Exhibit A-6**. The draft C-102 Forms also indicate the locations of each surface hole, bottom hole, and the first and last take points.

11. I have conducted a diligent search of the public records in Eddy County, New Mexico, where the wells will be located, and conducted phone directory and computer searches to obtain contact information for parties entitled to notification. I mailed all parties a well proposal, including an Authorization for Expenditure ("AFE"), for each well.

12. **Exhibit A-7** is a copy of the well proposal letter and AFEs for the proposed wells that were attached thereto. The estimated costs of the wells set forth in the AFEs are fair, reasonable, and comparable to the costs of other wells of similar depths and lengths drilled in this area of New Mexico.

13. **Exhibit A-8** includes a copy of the notice letter that was sent with the Application to all of the uncommitted interest owners in the proposed HSU.

14. Longfellow has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.

15. Longfellow requests the Division to approve operating charges and costs of supervision while drilling of \$8,000/month and, after completion, \$800/month, together with a provision adjusting the rates pursuant to the COPAS accounting procedures.

16. Longfellow requests the maximum cost, plus 200% risk charge, be assessed against non-consenting working interest owners.

17. Longfellow requests that it be designated operator of the wells.

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18. The exhibits attached hereto were prepared by me, or compiled from Longfellow's business records.

19. The granting of the Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.

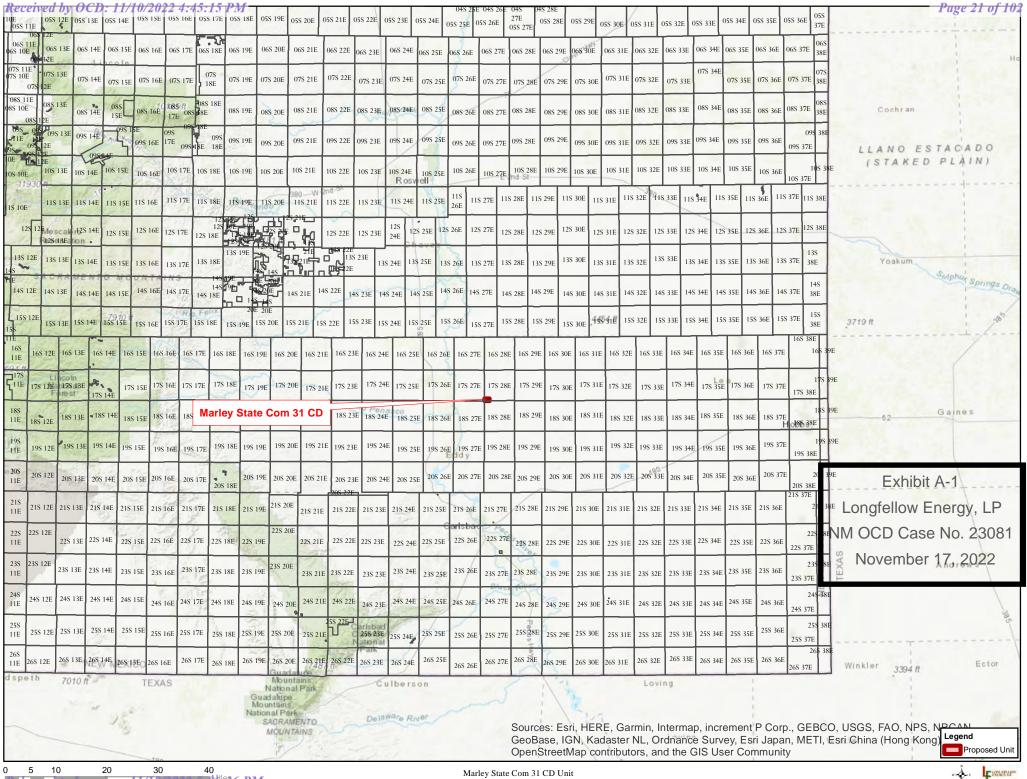
20. The foregoing is correct and complete to the best of my knowledge and belief.

.

FURTHER AFFIANT SAY	ETH NAUGHT	Adu
		Ryan Reynolds
STATE OF TEXAS)	,
COUNTY OF DALLAS)ss)	
Subscribed to and sworn bef	Fore me this 7 th day of	f November, 2022.
CARMELL		Carmella Smith
Comm. Expires	s 12-19-2023	Notary Public
My Commission expires	12/19/2023	;

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Tab 4.



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S31 17S 28E - Eddy County, New Mexico

R	eceived by OCD: 11/10/2022 4:45:15 PM			Page 22 of 102
	L2	SENW	SWNE	SENE
	L 3 Lot 3 (43.67 ac) and Lot 4 (43.76 ac), a/k/a (W/2 SW/4) Tract#1 WI Owner Net Acres W/% Tract 1 1 OXY USA, Inc. 27.278160 31.20000% 1 Occidental Permian, LP 16.436840 18.800000% 1 ZPZ Delaw are I LLC 26.229000 30.00000% 1 SEP Permian, LLC 17.466000 20.00000% 1 TOTAL 87.430000 100.000000%	NESW Tract #2 WIOWNER Net Acres WI% Tract 2 2 Longfelow LH, LLC 20.000000 50.00000% 2 ZPZ Delaw are ILLC 12.000000 30.00000% 2 SEP Permian, LLC 8.000000 20.00000% 2 TOTAL 40.000000 100.000000%	W/2 SE/4 Tract #3 WI Owner Net Acres WI% Tract 3 3 Longfellow LH, LLC 57.50000 71.87500% 3 Chieos, Ltd. 12.500000 15.625000% 3 Maverick Permian, LLC 10.000000 12.50000% 3 TOTAL 80.000000 100.000000%	NESE E/2 SE/4 Tract #4 WI% Tract 4 4 ZPZ Delaw are ILLC 24.00000 30.00000% 4 SEP Perman, LLC 16.00000 20.000000% 4 Long rellow LH, LLC 14.44444 18.055556% 4 WPX Energy Perman, LLC 12.777778 15.972222% 4 Marathon OI Co. 12.777778 15.972222% 4 TOTAL 80.000000 100.000000%
	L 4	SESW SE/4 SW/4 Tract #5 WI Owner Net Acres WI% Tract 5 5 Longfellow LH, LLC 31.750178 79.375444% The Regents of the University of New Mexico, Carl A. Hatch Professorship of Law & Public 3.347411 8.368527% 5 Main Street Holding Company 1.716150 4.290376% 5 Carl F. Hatch 1.212226 3.031316% 5 Frank Hatch 1.6266540% 5 5 Glenn F. Leet, Jr., aka Glenn F. River, Jr. 0.502428 1.256070% 5 Carla Leet-Assaf 0.328170 0.820425% 5 Tottal 40.000000 100.000000%	SWSE	SESE
L 1	L4	L3	Exhibit A-2 Longfellow Energy, LP NM OCD C ase No. 23081 November 17, 2022	L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1 L 1

Marley State Com 31 CD Unit Tracts S31 17S 28E - Eddy County, New Mexico

1,960 Feet ·

eived by OCD: 11/10/20				Unit Working Inte		: 23 of
				Working Interest Owners	Net Acres	WI%
				Longfellow LH, LLC	123.694622	37.77742
NENE	L 1	NENW	NWNE	ZPZ Delaw are I, LLC	62.229000	19.00528
				OXY USA, Inc.	27.278160	8.33099
			Exhibit A-3	Occidental Permian, LP	16.436840	5.01995
				SEP Permian, LLC	41.486000	12.67018
			Longfellow Energy, LP	WPX Energy Permian, LLC	12.77778	3.90244
				Marathon Oil Co.	12.77778	3.90244
			NM OCD Case No. 23081	Chisos, Ltd	12.500000	3.81761
				Maverick Permian, LLC	10.000000	3.05408
			November 17, 2022	The Regents of the University of New Mexico, Carl		3.03400
				Hatch Professorship of Law & Public Administration		1.02232
				Main Street Holding Company	1.716150	0.52412
SENE	L2	SENW	SWNE	Carl F. Hatch	1.212526	0.37031
	LZ			Frank Hatch	1.066616	0.32575
				Glenn F. Leet, Jr., aka Glenn F. River, Jr.	0.502428	0.15344
				Carla Leet-Assaf	0.328170	0.10022
				Frederika A. Leet	0.076521	0.02337
				UNIT TOTAL:	327.4300	100.000
			-31			
7S 27E						
1521L			17S 28E			
			17520L			
					NWSW	
				NESE	100300	
NESE		NESW	NWSE	INESE .		
NEGE	L3					
					014/014/	
					SWSW	
		SESW	SWSE	SESE		
	L 4	GLOVV				
SESE						
			100.000			
18S 27E			18S 28E			
				L1	L 4	
L1	L 4	L 3	L2	- ·	∟4	
					Legen	d
						u roposed
					P	oposed

CONTRACT AREA:

S/2 of Section 31-17S-28E, Eddy County New Mexico, 327.43 acres, more or less

UNIT INTEREST OF THE PARTIES

Interest Owners	Ownership %
Longfellow LH, LLC	37.777425%
ZPZ Delaware I, LLC	19.005284%
SEP Permian, LLC	12.670189%
OXY USA, Inc.	8.330990%
Occidental Permian, LLC	5.019955%
WPX Energy Permian, LLC	3.902446%
Marathon Oil Co.	3.902446%
Chisos, Ltd	3.817610%
Maverick Permian, LLC	3.054088%
The Regents of the University of New Mexico,	1.022329%
Carl A. Hatch Professorship of Law & Public Admin. Fund	1
Main Street Holdings Co.	0.524127%
Carl F. Hatch	0.370316%
Frank Hatch	0.325754%
Glen F. Leet, Jr.	0.153446%
Carla Leet-Assaf	0.100226%
Frederika A. Leet	0.023370%
	100.00%

TRACT INTEREST OF THE PARTIES

Tract 1 (Lot 3 and Lot 4, aka W/2 SW/4 of Sec. 31-17S-28E, 87.43 acres, more or less)

Interest Owners	Ownership %
OXY USA, Inc.	31.250000%
ZPZ Delaware I, LLC	30.00000%
SEP Permian, LLC	20.00000%
Occidental Permian, LP	<u>18.800000%</u>
	100.00%

Tract 2 (NE/4 SW/4 of Sec. 31-17S-28E, 40.00 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	50.00000%
ZPZ Delaware I, LLC	30.00000%
SEP Permian, LLC	20.00000%
	100.00%

Exhibit A-4 Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022 Tract 3 (W/2 SE/4 of Section 31-17S-28E, 80 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	71.875000%
Chisos, Ltd	15.625000%
Maverick Permian, LLC	12.500000%
	100.00%

Tract 4 (E/2 SE/4 of Section 31-17S-28E, 80 acres, more or less)

Interest Owners	Ownership %
ZPZ Delaware I, LLC	30.00000%
SEP Permian, LLC	20.00000%
Longfellow LH, LLC	18.055556%
WPX Energy Permian, LLC	15.972222%
Marathon Oil Co.	<u>15.972222%</u>
	100.00%

Tract 5 (SE/4 SW/4 of Section 31-17S-28E, 40 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	79.375444%
The Regents of the University of New Mexico,	8.368527%
Carl A. Hatch Professorship of Law & Public Admin.	Fund
Main Street Holdings Co.	4.290376%
Carl F. Hatch	3.031316%
Frank Hatch	2.666540%
Glen F. Leet, Jr.	1.256070%
Carla Leet-Assaf	0.820425%
Frederika A. Leet	0.191302%
	100.00%

OIL AND GAS LEASES SUBJECT TO THIS AGREEMENT

Lessor: Lessee: Serial No.: Date: Description:	State of New Mexico Martin Yates, Jr. X-647 November 14, 1922 The Lots 3 & 4 (aka W/2 SW/4) and the E/2 SE/4 of Section 31-17S-28E, Eddy County, New Mexico
Lessor:	State of New Mexico
Lessee:	H.F. McKenney
Serial No.:	B-7966
Date:	January 10, 1939
Description:	The E/2 SW/4 of Section 31-17S-28E, Eddy County, New Mexico
Lessor:	State of New Mexico
Lessee:	Forest E. Levers
Serial No.:	B-2071
Date:	August 10, 1933
Description:	The W/2 SE/4 of Section 31-17S-28E, Eddy County, New Mexico

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Owner	Contact Type	Notes
		Multiple proposals sent, have not reached an agreement; has option to sign JOA, or elect under Force
SEP Permian, LLC	Letter, Emails and Phone Calls	Pooling.
Apache Corp.	Letter, Emails and Phone Calls	Not interested in assigning, signed PPLA.
Occidental Permian Limited Partnership	Letter, Emails and Phone Calls	Agreed to terms to acquire interest, assignment is forthcoming.
OXY USA WTP, LP	Letter, Emails and Phone Calls	Agreed to terms to acquire interest, assignment is forthcoming.
Maverick Permian, LLC	Letter, Emails and Phone Calls	Not interested in assigning; has option to sign JOA, or elect under Force Pooling.
Chisos, Ltd	Letter, Emails and Phone Calls	Not interested in assigning; has option to sign JOA, or elect under Force Pooling.
WPX Energy Permian, LLC	Letter, Emails and Phone Calls	Made multiple offers, could not reach an agreement, agreed to terms with other party.
Marathon Oil Co.	Letter, Emails and Phone Calls	Letter offer, haven't received a response; has option to sign JOA, or elect under Force Pooling.
The Regents of the University of New Mexico, Carl A. Hatch		
Professorship of Law & Public Administration Fund	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.
Main Street Holding Company	Letter, Emails and Phone Calls	Will elect under Force Pooling.
Carl F. Hatch	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.
Frank Hatch	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.
Glenn F. Leet, Jr., aka Glenn F. River, Jr.	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.
Carla Leet-Assaf	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.
Frederika A. Leet	Letter, Emails and Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner.

Exhibit A-5 Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022 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

AMENDED REPORT

	WELL LOCATION AND ACREAGE DEDICATION PLAT										
1 A	API Number	•		² Pool Cod	le		³ Pool Na	me			
⁴ Property C	Code	⁵ Property Name								⁶ Well Number	
				MA	ARLEY STAT	FE COM 31 CD			001H		
⁷ OGRID N	No.		⁸ Operator Name								
37221	0			LONGFELLOW ENERGY, LP 3651.6							
					[™] Surfa	ce Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
Ι	36	17 S	27 E		2360	SOUTH	1208	EAS	ST	EDDY	
			11 H	Bottom H	Hole Locatio	n If Different Fr	om Surface			·	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	est line	County	
Ι	31	17 S	28 E		2262	SOUTH	20	EAS	ST	EDDY	
¹² Dedicated Acres	s ¹³ Joint	or Infill ¹⁴ (Consolidatio	n Code			¹⁵ Order No.			·	

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.

NM CONNER SEC. 36 N/4 CONNER SEC. 35 SECTION COPIEE N/4 CONNER SEC. 31 IN ECONNER SEC. 31 NM C 1018ER SEC. 36 LAT. = 32.79781471 LAT. = 32.79781971 LOW C. = 104.208289W NM C 6018ER SEC. 31 N = 554001.02 N = 554001.02 N = 554001.02 N = 654002.03 N = 654002.04 N = 654002.04	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. Signature Date Printed Name
	Longfellow Energy, LP M OCD Case No. 23081

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Intent

	As Drilleo	ł

API #			
Operator Name:		Property Name:	Well Number
LONGFELLOW ENE	ERGY, LP	MARLEY STATE COM 31 CD	001H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude				Longitude			NAD		

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	17S	28E	3	2278	SOUTH	100	WEST	EDDY
	Latitude 32.7895278			Longitude 104.2232	2163			NAD 83	

Last Take Point (LTP)

UL I	Section 31	Township 17S	Range 28E	Lot	Feet 2262	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude				Longitud			NAD		
32.7897467			104.2	066161		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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 30 of 102

AMENDED REPORT

		W	ELL LC	DCATIC	N AND ACI	REAGE DEDIC	CATION PLA	АT			
1	¹ API Number ² Pool C					³ Pool Name					
⁴ Property C	Code				⁵ Property	Name			⁶ Well Number		
I					ARLEY STAT	E COM 31 CD			002H		
⁷ OGRID No.					⁸ Operator	Name				⁹ Elevation	
37221	0			LC	ONGFELLOW	ENERGY, LP			3651.6		
	¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Ι	36	17 S	27 E		2340	SOUTH	1208	EA	ST	EDDY	
			пF	Bottom I	Hole Location	If Different Fr	om Surface			-	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Ι	31	17 S	28 E		1782	SOUTH	20	EA	ST	EDDY	
¹² Dedicated Acre	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code		n Code	¹⁵ Order No.							

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.

	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
NW CORNER SEC. 36 N/4 CORNER SEC. 36 SECTION CORNER N/4 CORNER SEC. 31 NE CORNER SEC. 31 LAT. = 32.7979021'N LAT. = 32.7978419'N LAT. = 32.7977832'N LAT. = 32.7978197'N LAT. = 32.7978599'N	the proposed bottom hole location or has a right to drill this well at this
LONG. = 104.2408232'W LONG. = 104.2322059'W LONG. = 104.2235908'W LONG. = 104.2148231'W LONG. = 104.2042488'W	location pursuant to a contract with an owner of such a mineral or working
NMSP EAST (FT) N N E 654021.62 N = 653993.63 N = 654017.25 C <thc< th=""> <thc< th=""></thc<></thc<>	interest, or to a voluntary pooling agreement or a compulsory pooling order
E = 569763.43 E = 572411.33 E = 575058.52 E = 577752.59 E = 580331.94 S89'34'42''E 2647.97 FT S89'35'42''E 2647.26 FT N89'39'20''E 2694.12 FT N89'36'31''E 2579.40 FT	heretofore entered by the division.
이 비 · · · · · · · · · · · · · · · · · ·	Signature Date
2.5 E	
IAT. = 32.7905221"N L2 E/4 [CORNER SEC. 31] IONG. = 104.2235473"W LAT. = 32.7906985"N A	Printed Name
NMSP EAST (FI) $FIRST TAKE POINT$ LONG. = 104.20630/0 W G	
E = 575074.64 LAT. = 32.7882056'N N = 651411.86 C LAT. = 32.7882056'N = 320056'N N = 651411.86 C LAT. = 320056'N N = 651411.86 C LAT. = 320056'N N = 651411.86 C LAT. = 320056'N = 32005'N =	E-mail Address
$E_{\text{NMS}} = 600.2700(12) + SEC = 36 $	
$E_{E}^{N} = 651389.10'$ $E = 569768.96$ $SURFACE = 1208'$ $LAST TAKE POINT OF HOLE$	¹⁸SURVEYOR CERTIFICATION
Com Com Line Line <thline< th=""> <thline< th=""> <thline< td=""><td>was plotted from field notes of actual surveys made by</td></thline<></thline<></thline<>	was plotted from field notes of actual surveys made by
≱ LAT. = 32.7897296'N (NAD83) ↓ ↓ ↓ ↓ L4 BOTTOM OF HOLE ↓ ↓	
	me or under my supervision, and that the same is true
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
N89'24'17"W 2657.89 FT N89'24'17"W 2657.89 FT N89'24'17"W 2657.89 FT S88'52'37"W 2724.33 FT S88'50'48"W 2600.23 FT	OCTOBER 10, 2022
SW CORNER SEC. 36 S/4 CORNER SEC. 36 SECTION CORNER S/4 CORNER SEC. 31 SE CORNER SEC. 31	Date of Survey
LAT. = 32.7834265'N SCALED LAT. = 32.7832607'N LAT. = 32.7833994'N LONG. = 104.2408028'W LONG. = 104.225070'W LONG. = 104.2146438'W LONG. = 104.2061844'W	ME ME
NMSP EAST (FT) NMSP E	
E = 569774.30 $E = 575089.78$ $E = 577813.59$ $E = 580413.30$	
	Signature and Seal of Protestional Surveyor:
	Certificate Number: A TABAS LARAMILLO, LS 12797
	POLSENVE NO. 9501A

Received by OCD: 11/10/2022 4:45:15 PM

Intent	
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	As Drilled

API #			
Operator Name:		Property Name:	Well Number
LONGFELLOW ENE	ERGY, LP	MARLEY STATE COM 31 CD	002H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	17S	28E	3	1797	SOUTH	100	WEST	EDDY
	Latitude 32.7882056				Longitude 104.2232	2090			NAD 83

Last Take Point (LTP)

UL I	Section 31	Township 17S	Range 28E	Lot	Feet 1782	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude					Longitud	de		NAD	
32.7884274				104.2	065936		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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 32 of 102

AMENDED REPORT

		W	ELL LO	DCATIC	ON AND AC	CREAGE DEDIC	CATION PLA	ΔT			
1 A	¹ API Number ² Pool C				de	³ Pool Name					
⁴ Property C	Code				⁵ Proper	ty Name			⁶ Well Number		
					ARLEY STA	FE COM 31 CD				003H	
⁷ OGRID No.					⁸ Operat	or Name				⁹ Elevation	
372210					ONGFELLOV	V ENERGY, LP			3669.6		
	¹⁰ Surface Location										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Р	36	17 S	27 E		824	SOUTH	658	EA	ST	EDDY	
·			и]	Bottom I	Hole Location	on If Different Fr	om Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/W	est line	County	
Р	31	17 S	28 E		1300	SOUTH	20	EAST		EDDY	
¹² Dedicated Acres	icated Acres ¹³ Joint or Infill ¹⁴ Consolidation Code			n Code	¹⁵ Order No.						

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.

	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
NW CORNER SEC. 36 N/4 CORNER SEC. 36 SECTION CORNER N/4 CORNER SEC. 31 NE CORNER SEC. 31 LAT. = 32.7979021'N LAT. = 32.7978419'N LAT. = 32.797832'N LAT. = 32.7978197'N LAT. = 32.7978599'N	the proposed bottom hole location or has a right to drill this well at this
LONG. = 104.2408232'W LONG. = 104.2322059'W LONG. = 104.235908'W LONG. = 104.2148231'W LONG. = 104.2064288'W	location pursuant to a contract with an owner of such a mineral or working
NMSP EAST (FT) N = 6530931.33 N = 6530930.33 N = 6530931.94	interest, or to a voluntary pooling agreement or a compulsory pooling order
E = 569763.43 E = 572411.33 E = 575058.52 E = 577752.59 E = 580331.94 S89'34'42"E 2647.97 FT S89'35'42"E 2647.26 FT N89'39'20"E 2694.12 FT N89'36'31"E 2579.40 FT	heretofore entered by the division.
L1	
22 ET	Signature Date
22 22 22	, , , , , , , , , , , , , , , , , , ,
DUARTER CORNER LAT. = 32.7905221℃ LAT. = 32.7905221℃	Printed Name
LONG = 104.2235473'W FIRST TAKE POINT LONG = 104.20630/0'W	
Z LAT. = 32.79066627N N = 651341.75 LAT. = 32.7868806*N N = 501411.86 0	E-mail Address
NMSP EAST (FT)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	¹⁸ SURVEYOR CERTIFICATION
m MARLEY STATE m LONG = 104 2065709 W	I hereby certify that the well location shown on this plat
COM 31 CD 003H	was plotted from field notes of actual surveys made by
Z LAI. = 32.78554597N (NAD83) Y LONG = 104 2256617W ↓ LTP / FTP / FTP ↓ LTP / F	me or under my supervision, and that the same is true
BOTTOM $/$ G_{12} WMSP EAST (FT) N = 649530.68 SURFACE $-$ OF HOLE O_{12} S = 574426.74 LOCATION $ C_{12}$	
P = 574426.74 LOCATION $R = 574426.74$	and correct to the best of my belief.
N89'24'17"W 2657.89 FT N89'24'17"W 2657.89 FT S88'52'37"W 2724.33 FT S88'50'48"W 2600.23 FT	AUGUST 30, 2022
SW CORNER SEC. 36 S/4 CORNER SEC. 36 SECTION CORNER S/4 CORNER SEC. 31 SE CORNER SEC. 31 LAT. = 32,7834265'N LAT. = 32,7833994'N LAT. = 32,783390'N LAT. = 32,7833994'N LAT. = 32,783390'N LAT. = 32,7830N'N LAT. = 32,7830N'N LAT. = 32,7830N'N LAT. = 32,780N'N LAT. = 32	Date of Survey
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	North 12 Star North
	Signature and Seal of Protectional Surveyor:
	Certificate Number: Dimin LARAMILLO, LS 12797
	2/90/5558/VA. NO. 9502
	<u>][]</u>

Received by OCD: 11/10/2022 4:45:15 PM

Intent	
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	As Drilled

API #			
Operator Name:		Property Name:	Well Number
LONGFELLOW ENERGY, LP		MARLEY STATE COM 31 CD	003H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	17S	28E	4	1315	SOUTH	100	WEST	EDDY
Latitude 32.7868806			Longitude 104.2232	2016			NAD 83		

Last Take Point (LTP)

UL P	Section 31	Township 17S	Range 28E	Lot	Feet 1300	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude					Longitud	le		NAD	
32.7871027				104.2	065709		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.

Operator Name: Property Name: Well Nu	API #		
	Operator Name:	Property Name:	Well Number

KZ 06/29/2018

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 34 of 102

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT										
PI Number	•		² Pool Cod	le		³ Pool Na	me			
ode				⁵ Propert	y Name			6	Well Number	
			MA	ARLEY STAT	TE COM 31 CD				004H	
lo.				⁸ Operato	or Name				⁹ Elevation	
)			LO	LONGFELLOW ENERGY, LP 3668.8					3668.8	
¹⁰ Surface Location										
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
36	17 S	27 E		841	SOUTH	622	EAS	ST	EDDY	
		11 H	Bottom H	Hole Locatio	n If Different Fr	om Surface			•	
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County	
31	17 S	28 E		818	SOUTH	20	EAS	ST	EDDY	
s ¹³ Joint	or Infill ¹⁴ (Consolidatio	n Code	·		¹⁵ Order No.	•			
	ode lo. Section 36 Section 31	PI Number ode o. Section Township 36 17 S Section Township 31 17 S	PI Number ode oo. Section Township Range 36 17 S 27 E " I Section Township Range 31 17 S 28 E	PI Number ² Pool Cod ode MA io. Image: Code Section Township Range 36 17 S 27 E " Bottom H Section 31 17 S 28 E	PI Number ² Pool Code ode ⁵ Propert MARLEY STAT io. ⁸ Operato D LONGFELLOW ¹⁰ Surfa Section Township Range Lot Idn Feet from the 36 17 S 27 E 841 ¹¹ Bottom Hole Locatio Section Township Range Lot Idn Feet from the 31 17 S 28 E 818	PI Number ² Pool Code ode ⁵ Property Name MARLEY STATE COM 31 CD io. ⁸ Operator Name LONGFELLOW ENERGY, LP "Output Surface Location Section Township Range Lot Idn Feet from the North/South line 36 17 S 27 E Bottom Hole Location If Different Fr Section Township Range Lot Idn Feet from the North/South line 31 17 S 28 E 818 SOUTH	² Pool Code ³ Pool Na ⁵ Property Name MARLEY STATE COM 31 CD oo. ⁸ Operator Name LONGFELLOW ENERGY, LP ¹⁰ Surface Location Feet from the Section Township Range Lot Idn Feet from the North/South line Feet from the 60 Township Range Lot Idn Feet from the North/South line Feet from the Section Township Range Lot Idn Feet from the North/South line Feet from the 31 17 S 28 E 818 SOUTH 20	PI Number ² Pool Code ³ Pool Name ode ⁵ Property Name	PI Number ² Pool Code ³ Pool Name ode ⁵ Property Name ⁶ MARLEY STATE COM 31 CD ⁶ jo. ⁸ Operator Name LONGFELLOW ENERGY, LP ¹⁰ ¹⁰ Surface Location Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 36 17 S 27 E 10 841 SOUTH 622 EAST ¹⁰ Surface Location If Different From Surface ¹⁰ South line Feet from the East/West line 36 17 S 27 E 841 SOUTH 622 EAST ¹¹ Bottom Hole Location If Different From Surface ¹² Section Township Range Lot Idn Feet from the East/West line 31 17 S 28 E 818 SOUTH 20 EAST	

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.

	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
NW CORNER SEC. 36 N/4 CORNER SEC. 36 SECTION CORNER N/4 CORNER SEC. 31 NE CORNER SEC. 31 LAT. = 32.7979021'N LAT. = 32.7978419'N LAT. = 32.797832'N LAT. = 32.7978197'N LAT. = 32.7978599'N	the proposed bottom hole location or has a right to drill this well at this
LONG. = 104.2408232'W LONG. = 104.2322059'W LONG. = 104.235908'W LONG. = 104.2148231'W LONG. = 104.2064288'W	location pursuant to a contract with an owner of such a mineral or working
NMSP EAST (FT) NMSP E	interest, or to a voluntary pooling agreement or a compulsory pooling order
E = 569763.43 E = 572411.33 E = 575058.52 E = 577752.59 E = 580331.94 S89'34'42"E 2647.97 FT S89'35'42"E 2647.26 FT N89'39'20"E 2694.12 FT N89'36'31"E 2579.40 FT	heretofore entered by the division.
S89'34'42"E 2647.97 FT S89'35'42"E 2647.26 FT N89'39'20"E 2694.12 FT N89'36'31"E 2579.40 FT	
2 3 3 ² E	Signature Date
22	Spanic Due
COUNTER CORNER LAT. = 32.79065211 LAT. = 32.7906521 LAT. = 32.790652 LAT. = 32.79065 LAT. = 32.7906 LAT. = 32.	Printed Name
D_{1} = $[04,22334/3W]$ FTRST TAKE PITINT 2000070W [4]	
0 W/4 CORNER SEd. 36 NMSP EAST (FT) 834' FSL, 100' FWL NMSP EAST (FT) 834	E-mail Address
LONG. = $104.2408127W$ SEC 36 E = 575074.64 L2 LONG. = $104.2231943W$ E = 580372.51 NMSP EAST (FT) L3 LONG. = $104.2231943W$ BOTTOM OF HOLE	
$E = 651389.10^{-1}$ $E = 32.7857822^{-1}$ $E = 32.7857822^{-1}$	¹⁸ SURVEYOR CERTIFICATION
5 $MAPLEV STATE$	I hereby certify that the well location shown on this plat
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·
	was plotted from field notes of actual surveys made by
	me or under my supervision, and that the same is true
000000000000000000000000000000000000	and correct to the best of my belief.
^{CO} L4	AUGUST 30, 2022
N89'24'17"W 2657.89 FT N89'24'17"W 2657.89 FT S88'52'37"W 2724.33 FT S88'50'48"W 2600.23 FT SW CORNER SEC. 36 S/4 CORNER SEC. 36 S/4 CORNER SEC. 31 SE CORNER SEC. 31	Date of Survey
LAT. = 32.7837657N LAT. = 32.7835507N LAT. = 32.7835597N LAT. = 32.7835597N	Date of Survey
NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT) NMSP EAST (FT)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Signature and Seal of Proversional Surveyor:
	Certificate Number: DECEMONS LAB AMILLO, LS 12797
	2405558V+V-VO. 9503

Received by OCD: 11/10/2022 4:45:15 PM

Intent	
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As Drilled		As Drilleo
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API #			
Operator Name:		Property Name:	Well Number
LONGFELLOW ENERGY, LP		MARLEY STATE COM 31 CD	004H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	17S	28E	4	834	SOUTH	100	WEST	EDDY
Latitude					Longitude	1943	NAD		
32.7855584					104.2231		83		

Last Take Point (LTP)

UL P	Section 31	Township 17S	Range 28E	Lot	Feet 818	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
Latitude					Longitud			NAD	
32.7857780					104.2	065482		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

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 36 of 102

AMENDED REPORT

	*		N AIR	IN AND AC	REAGE DEDIC		11			
PI Number	r		² Pool Co	de	³ Pool Name					
ode	⁵ Property Name								⁶ Well Number	
		005H								
lo.		⁹ Elevation								
)	LONGFELLOW ENERGY, LP								3668.8	
Surface Location										
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County	
36	17 S	27 E		833	SOUTH	640	EAST		EDDY	
" Bottom Hole Location If Different From Surface										
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line		County	
31	17 S	28 E		337	SOUTH	20	EAS	ST	EDDY	
¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Cons			n Code	•		¹⁵ Order No.	•			
	ode lo. Section 36 Section 31	PI Number ode lo. Section 36 17 S Section 31 17 S	PI Number ode oo. Section Township Range 36 17 S 27 E " I Section Township Range 31 17 S 28 E	PI Number ² Pool Coordinate ode ML jo. LO Section Township Range 36 17 S 27 E " Bottom I Section Section Township Section Township	PI Number ² Pool Code ode ⁵ Property MARLEY STAT io. ⁸ Operato box 1000000000000000000000000000000000000	PI Number ² Pool Code ode ⁵ Property Name MARLEY STATE COM 31 CD io. ⁸ Operator Name LONGFELLOW ENERGY, LP "Output Surface Location Section Township Range Lot Idn Feet from the North/South line 36 17 S 27 E "Bottom Hole Location If Different Fr Section Township Range 17 S 28 E 337	PI Number ² Pool Code ³ Pool Na ode ⁵ Property Name MARLEY STATE COM 31 CD io. ⁸ Operator Name ELONGFELLOW ENERGY, LP io. ⁸ Operator Name IONGFELLOW ENERGY, LP io. ¹⁰ Surface Location Section Section Township Range Lot Idn Feet from the North/South line Feet from the 36 17 S 27 E 833 SOUTH 640 ¹¹ Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the 31 17 S 28 E 337 SOUTH 20	ode 5 Property Name MARLEY STATE COM 31 CD Io. 8 Operator Name LONGFELLOW ENERGY, LP Io. 10 Surface Location Section Township Range Lot Idn Section Township Range Lot Idn Feet from the North/South line Feet from the East/We 36 17 S 27 E 833 SOUTH 640 EAS ""Bottom Hole Location If Different From Surface "Bottom Hole Location If Different From Surface East/We 31 17 S 28 E 337 SOUTH 20 EAS	PI Number ² Pool Code ³ Pool Name ode ⁵ Property Name ⁶ MARLEY STATE COM 31 CD 6' jo. ⁸ Operator Name LONGFELLOW ENERGY, LP 10' Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 36 17 S 27 E 10' 833 SOUTH 640 EAST ***********************************	

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.

	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
NW CORNER SEC. 36 N/4 CORNER SEC. 36 SECTION CORNER N/4 CORNER SEC. 31 NE CORNER SEC. 31 LAT. = 32.7979021'N LAT. = 32.79785419'N LAT. = 32.797832'N LAT. = 32.7978197'N LAT. = 32.7978599'N	the proposed bottom hole location or has a right to drill this well at this
LONG. = 104.2408232'W LONG. = 104.2322059'W LONG. = 104.235908'W LONG. = 104.2148231'W LONG. = 104.2064288'W	location pursuant to a contract with an owner of such a mineral or working
NMSP EAST (FT) NMSP E	interest, or to a voluntary pooling agreement or a compulsory pooling order
E = 569763.43 E = 572411.33 E = 575058.52 E = 577752.59 E = 580331.94 S89'34'42"E 2647.97 FT S89'35'42"E 2647.26 FT N89'39'20"E 2694.12 FT N89'36'31"E 2579.40 FT	heretofore entered by the division.
S89'34'42"E 2647.97 FT S89'35'42"E 2647.26 FT N89'39'20"E 2694.12 FT N89'36'31"E 2579.40 FT	
2 H	Signature Date
20 20	Signature
	Printed Name
LONG = 104.20530730W FIRST T4KE POINT LONG = 104.2063070W [2]	
0 w/4 CORNER SEd. 36 NMSP EAST (FT) 325' FSL, 100' FWL NMSP EAST (FT) 325' FSL, 100' FWL NMSP EAST (FT) 82 JAT. = 32.7906662'N N = 651411.86 0'	E-mail Address
LONG. = 104.2408127W SEC 36 E = 575074.64 L2 LONG. = 104.2231869W E = 580372.51 NMSP EAST (FT) L3 BOTTOM OF HOLE	
\square	¹⁸SURVEYOR CERTIFICATION
MARLEY STATE	<i>I hereby certify that the well location shown on this plat</i>
COM 31 CD 005H CELEV. = 3668.8' N = 649142.29 CN ELEV. = 3668.8'	5 55 1
א (Al ש ב 2,7855691'N (NAD83)	was plotted from field notes of actual surveys made by
MMSP EAST (FT)	me or under my supervision, and that the same is true
8 N = 649539.12 SURFACE 72 FTP LTP 2 2 E = 574444.89 LOCATION 72 FTP 200 - 200	and correct to the best of my belief.
∞ I4	AUGUST 30, 2022
N89'24'17"W 2657.89 FT N89'24'17"W 2657.89 FT S88'52'37"W 2724.33 FT S88'50'48"W 2600.23 FT SW CORNER SEC. 36 S/4 CORNER SEC. 36 SECTION CORNER SEC. 31 SE CORNER SEC. 31	Date of Survey
LAT. = 32.7834265'N SCALED LAT. = 32.7835350'N LAT. = 32.783599'N LAT. = 32.783590'N LAT. = 32.783590'N LAT. = 32.78350'N LAT. = 32.7850'N L	Date of Survey
NMSP EAST (FT)	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	Signature and Seal of Protestional Surveyor:
	Certificate Number: DAMON STAR AMILLO, LS 12797
	THUISISRUPS NO. 9504

Received by OCD: 11/10/2022 4:45:15 PM

Intent

	As	Drill	ed

API #			
Operator Name:		Property Name:	Well Number
LONGFELLOW ENERGY, LP		MARLEY STATE COM 31 CD	005H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitu	de				Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	31	17S	28E	4	325	SOUTH	100	WEST	EDDY
Latitu 32.7	^{de} '84233	5			Longitude 104.2231	1869			NAD 83

Last Take Point (LTP)

UL P	Section 31	Township 17S	Range 28E	Lot	Feet 337	From N/S SOUTH	Feet 100	From E/W EAST	County EDDY
P 31 17S 28E Latitude 32.7844560				Longitude 104.2065256				NAD 83	
32.7044300				101.2	101.2000200			00	

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



June 30, 2022

Chisos, Ltd Attn: Marshall Baker 1331 Lamar St., Suite 1077 Houston, TX 77010 Exhibit A-7 Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022

Re: Well Proposals – Marley State Com 31CD 001, 002H, 003H, 004H, 005H S/2 of Section 31-17S-28E, Eddy County, New Mexico

To whom it may concern:

Longfellow Energy, LP ("Longfellow") hereby proposes to drill and complete the following wells "back to back":

- Marley State Com 31CD 001H, with an approximate true vertical depth of 3,500', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,100') and an estimated cost of \$5,214,619 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 4/8/2022
- Marley State Com 31CD 002H, with an approximate true vertical depth of 3,900', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,500') and an estimated cost of \$5,214,619 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 4/8/2022
- Marley State Com 31CD 003H, with an approximate true vertical depth of 3,500', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,200') and an estimated cost of \$5,214,619 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 4/8/2022
- Marley State Com 31CD 004H, with an approximate true vertical depth of 3,900', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,700') and an estimated cost of \$5,214,619 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 4/8/2022
- Marley State Com 31CD 005H, with an approximate true vertical depth of 3,500', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,200') and an estimated cost of \$5,214,619 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 4/8/2022

To facilitate these wells and for efficient development, Longfellow proposes to form a Working Interest Unit (the "WIU") covering the S/2 of Section 31-17S-28E, containing approximately 320 acres. For development of horizontal Yeso wells within the WIU, Longfellow proposes a new horizontal joint operating agreement dated June 30, 2022, a modified 2015 Horizontal AAPL Form 610 Operating Agreement, (hereinafter referred to as the "HJOA") to govern horizontal Yeso development within the WIU, to supersede existing JOAs (if any), containing the following provisions:

- Contract Area being the S/2 of Section 31-17S-28E, limited to the Yeso formation
- Applies to horizontal well development only
- 100%/300%/300% non-consent penalties
- \$8,000/\$800 drilling and producing monthly overhead rates

According to our title examination, Chisos, Ltd owns a working interest as to the proposed WIU. We respectfully request that you select one of the following three options with regard to your interest in the proposed well:

Option 1 - Participate with your working interest in the proposed wells, pursuant to the terms of the HJOA

Option 2 – Elect to not participate in the proposed wells, pursuant to the terms of the HJOA (an election of "Non-Consent")

Received by OCD: 11/10/2022 4:45:15 PM

June 30, 2022 Marley State Com 31CD 001H, 002H, 003H, 004H, 005H Well Proposals

Option 3 - Assign all of your leasehold rights, and the existing wells (if any) associated with those rights, in the WIU area to Longfellow for \$1,800/net acre (delivering your existing Net Revenue Interest)

Please indicate your election as to the aforesaid three options in the space provided below, and execute and return a copy of this letter to the undersigned within 30 days of receipt of this proposal. Your election of Option 1 and 2, should be returned to Longfellow by U.S. mail to the letterhead address below or email to Ryan.Reynolds@longfellowenergy.com. Upon receipt of your election, I will send the HJOA for your review and execution. Your election of Option 3, along with your completed Form W-9, should be returned to Longfellow by U.S. mail to the letterhead address below or email to Ryan.Reynolds@longfellowenergy.com. Upon receipt of this election, I will send an Assignment for your review and execution. If you prefer to review the HJOA prior to making an election, please request a copy by email and I will furnish for your review.

Longfellow looks forward to working with you on this proposal and I encourage you to contact me with any questions pertaining to the proposed wells. Please be advised, to facilitate timely development, Longfellow may file with the New Mexico Oil Conservation Division for compulsory pooling of any uncommitted working interest owners. Should you have any questions concerning this matter, please contact the undersigned by phone at 972-590-9941 or by e-mail to Ryan.Reynolds@longfellowenergy.com.

Sincerely,

LONGFELLOW ENERGY, LP

is for

Ryan Reynolds Land Manager

_____ Option 1. The undersigned elects to participate in the drilling and completion of the proposed wells. Enclosed please find the executed AFEs please forward me the HJOA for my execution.

_____ Option 2. The undersigned elects to not participate in the drilling and completion of the proposed wells, pursuant to the non-consent provisions of the HJOA. Please forward me the HJOA for my execution.

_____ Option 3. The undersigned elects to assign all of its leasehold rights, and the wells associated with those rights (if any), in the S/2 of Section 31-17S-28E to Longfellow for \$1,800/ net acre, delivering our existing Net Revenue Interest.

AGREED to and ACCEPTED this _____ day of _____, 2022.

Chisos, Ltd

By:		

Print Name:		

Title:_____



LEASE:	R: Longfellow Energy, LP Marley State 31CD	WELL NO.	001H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/202
LOCATION		Section 36-1		FIELD.	PROPOSED TD:	ΠΓΕ <i>π</i> .	ft (MD)	4/0/20.
LOCATION		Section 31-1		0.000	VERTICAL		RE-ENTRY	
)BJECTIV REMARKS:		Estimated @ Estimated @	3500' 9100'	ft TVD ft MD	HORIZONTAL	X REVIEWE	WORKOVER	
			DBULDYC	_	COMPLETION		SUPPLEN	
1-00	INTANGIBLE DRILLING COSTS ** IDC - DRILLING **		DRILLING	<mark>_</mark>	COMPLETION	<mark>_</mark>	SUPPLEN	IENIAL
1-02	Rig Diesel		\$63,180)		1		
1-03	Rig Rentals Location / Construction		\$25,000 \$105,000			_		
1-04 1-05	Drilling Insurance		\$5,00			-		
1-06	Permits		\$7,50					
1-07 1-08	Title Opinion / Regulatory Fees Survey		\$40,000			-		
1-10	Right-of-Way		\$15,000)]		
1-12 1-14	Pit Lining / Fences Trucking		\$7,50			-		
1-16	Air / Gas Services		\$)				
1-18	Supervision		\$80,000			_		
1-19 1-20	Drilling Overhead Rig Mobilization / Demobilization		\$25,000			-		
1-22	Bits / Underreamers, Etc.		\$60,000)		1		
1-23 1-24	Directional Tools & Supervision Hammer Rental / Supervision		\$130,000			-		
1-25	Cement Plug / Squeeze		\$)		1		
1-26	Drilling Mud & Transportation		\$29,50			4		
1-27 1-28	Mud Diesel Mud Logging & Geo-steering	———————————————————————————————————————	\$15,000			-		
1-29	Mud Remediation		\$()]		
1-30 1-31	Drill String & BHA Rental Coring	———————————————————————————————————————	\$20,000					
1-31	Drill Stem Tests		\$()		1		
1-34	Contract Daywork Drilling 12.0 days @ \$17.750 / day		\$213,000					
1-34	12.0 days @ \$17,750 / day Casing Crews, PU & LD		\$215,000			-		
1-38	Fishing Tool Rentals		\$1					
1-40 1-42	Rathole / Mousehole / Conductor Water - Fresh / Brine		\$25,000					
1-43	Waste Water / Mud Disposal		\$29,000			1		
1-44	Well Control Equipment Trash Trailer		\$2,000			4		
1-46 1-48	Surface Pipe Cementing		\$2,00			-		
1-50	Intermediate Pipe Cementing		\$(]		
1-51 1-52	Contractor Ser. (Roustabout, Testor, etc.) Production Casing Cementing		\$30,000			-		
1-56	Open-Hole Logging OH Logs & Core processing		\$()				
1-58 1-60	Drilling Contingencies Surface Damages	10%	\$102,768			4		
1-62	Rotating Head & Expendables		\$8,50			-		
1-64	Miscellaneous Drilling		\$60,000					
1-66 1-68	Welding During Drilling Miscellaneous Equipment Rentals		\$5,50			-		
1-70	Centralizers & Float Equipment		\$33,000			1		
1	TOTAL INTANGIBLE DRILLING COSTS:		\$1,394,198					
	TANGIBLE DRILLING COSTS:		DRILLING	7	COMPLETION		SUPPLEM	MENTAL
2-00	** IDC - DRILLING **]				
UBULAR	GOODS (Surf., Inter., Prod., Tbg)			Τ		Τ		
2-02	Size Grade Weight Thread Length 9-5/8" J-55 36.00 LT&C 1300 \$40.80	———————————————————————————————————————	\$51,740	, 				
2-04	7" L-80 32.00 BT&C 4300 \$33.49		\$140,180)		1		
2-06	5-1/2" L-80 20.00 BT&C 5500 \$25.46 - SURFACE EQUIPMENT		\$136,950			4		
2-10	- SURFACE EQUIPMENT Casinghead(s)		\$13,500			1		
2-12	Liner Hanger & Packer		\$()]		
2-14 2-16	Open Hole Packers and Sleeves Miscellaneous	———————————————————————————————————————	\$					
2-10	Flowline & Valves		\$			1		
	TOTAL TANGIBLE DRILLING COSTS:		\$342,370	_		コ		
	INTANGIBLE COMPLETION COSTS:		DRILLING		COMPLETION		SUPPLEN	IENTA
3-00	** IDC - COMPLETION **		DRILLING	4	COMPLETION	-	SUFFLEN	and Al
3-02	Acidizing		<u> </u>	f	\$	0	<u> </u>	
3-04	Fracturing]	\$1,450,00	0		
3-06 3-08	Perforating Cased Hole Logging	———————————————————————————————————————		4	\$130,00	0		
3-10	CO2 / Boosters			1	\$	0		
3-12	Electrician / Electrical Services			4	\$28,33			
3-14 3-15	Equipment Rentals Rentals- Potties, Lights, Trash Trailers	———————————————————————————————————————		4	\$32,50			
3-16	Frac Tank Rentals			1	\$10,00	0		
3-18 3-20	Restore Location Right - Of - Way	———————————————————————————————————————		4	\$3,00			
3-20 3-22	Right - Of - Way Roustabout Crews			1	\$83			
3-23	Cement Plugs/Bridge Plugs			4	\$22,00			
3-24 3-25	Supervision Completion Overhead	———————————————————————————————————————		4	\$42,50			
				1	φ10,50	-	1	

1



UPRENDE Logding Earny, LP LEXE Mix Num / 10 NTE South Mix Num / 10 NTE	OPERATO	R. Longfalle	w Energy T	P										
LIGCATION: NUL Site Not File Socied 317 372 PROPEND The # NUP COLATION: Vani Franzenia Not Note 1018 32								WELL NO.	001H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/2022
DACATION: BHL 2200 FSL Social 31/75-28: VERTICAL BERTERY I REMERTINE Loss lifts Project Eddy Comp. NM Estimated 0 5500' n. TOD HORELOWNEL NOVERNEE 1320 Work Reading: Proh. 5500' n. TOD HORELOWNEL NOVERNEE 3330 Work Reading: Proh. 5500' n. MO Status 5500' 3331 Bickline Week. 100' n. MO Status 100' 100' 3331 Bickline Week. 100' 100				FSL	332'	FEL								0/2022
DBJECTIFY Vero Foundation Latimated 00 00100 00100 NUME														Y
REMERS: Loc NUM. Project. Eddy County, NM Edmand 0 0.00 0.00 REVIEWED BY. 1.7 Water Taunder-10*, Not, Fill PH 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,0000 51,000 <td< td=""><td></td><td></td><td></td><td></td><th></th><td></td><td>Estimated</td><td></td><td></td><td>ft TVD</td><td></td><td>Х</td><td></td><td></td></td<>							Estimated			ft TVD		Х		
3.38 War Hading - Freds 530.803 3.39 Witching Vit Law 530.007 310 Bitching Vit Track 530.007 311 Grand Park (R) Budgeout Park 530.007 312 Grand Park (R) Budgeout Park 530.007 313 J. J. do day \$50.00 501 314 J. do day \$50.00 501 315 Backen \$100 \$100 314 J. do day \$50.00 \$100 315 Backen \$100 \$100 316 Account Park (R) Hange Park (R) \$100 \$100 317 Derive Park (R) \$100 \$100 \$100 318 Hang Texing & Backen Interner, Fre. \$100 \$100 \$100 318 Hang Texing & Backen Interner, Fre. \$100 <				ddy Cour	nty, NM									
3.38 War Hading - Freds 530.803 3.39 Witching Vit Law 530.007 310 Bitching Vit Track 530.007 311 Grand Park (R) Budgeout Park 530.007 312 Grand Park (R) Budgeout Park 530.007 313 J. J. do day \$50.00 501 314 J. do day \$50.00 501 315 Backen \$100 \$100 314 J. do day \$50.00 \$100 315 Backen \$100 \$100 316 Account Park (R) Hange Park (R) \$100 \$100 317 Derive Park (R) \$100 \$100 \$100 318 Hang Texing & Backen Interner, Fre. \$100 \$100 \$100 318 Hang Texing & Backen Interner, Fre. \$100 <													_	
3-30 Skillswoh 510000 3-31 Echnical John 510000 3-32 White Number 100000 510000 3-34 Eday 10000 510000 3-34 Mixellacoos Comptoino 510000 3-34 Mixellacoos Comptoino 510000 3-34 Mixellacoos Comptoino 51000 3-34 Mixellacoos Comptoino 51000 3-34 Echnical Echnical Science 51000 3-34 Echnical Echnical Science 51000 3-34 <td>3-27</td> <td></td> <td></td> <td></td> <th></th> <td></td> <td></td> <td>] [</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3-27] [
3-30 Skilding Wok 51 3-31 Editional Jabor 52,000 3-32 Excurse Vair (Jones Swind) 52,000 3-33 Inclusion Rg: Toxyooth 53,000 3-34 Dirithins, Universense: Inc. 53,000 3-34 Dirithins, Universense: Inc. 53,000 3-34 Dirithins, Universense: Inc. 51,000 3-34 Dirithins, Universense: Inc. <														
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33.3 Recret Unit / Davies Savied 52500 33.3 Tracking NITrack 530 33.4 Addres 5100 33.4 Addres 5100 33.4 Addres 5100 33.4 Completion Rule routers. En: 5100 34.4 Dif One Read 500 34.5 Constraints Counter Stark, Lubric and 500 34.6 Thing Restrict Read 500 34.7 Dif One Read 5000 34.8 Thing Restrict Read 5000 34.9 Thing Restrict Read 5000 34.10 Thing Restrict Read 5000 34.10 Thing Restrict Read 5000 34.10 Thing Read 5000 34.10 Thing Read 500 34.10 Thing Read 500 34.10 Thing Read 500 34.10 Thing Read <td< td=""><td></td><td></td><td></td><td></td><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
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3-36 Achors \$2,500 3-38 Diff. Vol. Undersements The: \$300 3-40 Calida Tahing Unin \$300 3-42 Completion Fluids. Mul. free. \$300 3-44 Diff. Tool Rental \$300 3-45 Diff. Tool Rental \$300 3-46 Fluids: Tool Rental \$300 3-47 Completion Fluids. Mont. Free. \$300 3-48 Mineclineous: Completion \$300 3-56 Control Fluids Roads. BORP, Free Stock, Labricator \$30000 3-56 Control Fluids Roads. BORP, Free Stock, Labricator \$30000 3-56 Control Fluids Roads. BORP, Free Stock, Labricator \$30000 3-56 Control Fluids Roads. BORP, Free Stock, Labricator \$30000 3-50 Control Fluids Roads. BORP, Free Stock, Labricator \$30000 3-50 Stock Roads. \$30000<														
3.38 Dull his, Undersemens, Etc. \$3.00			@	\$7,600		/ day		4 4						
3-42 Conder Tubins, Unit. 80														
3-42 Completion Finites - Mad. Etc. 5120,000 50 3-44 Different Finites & Supercion 50 50 3-45 Totaling Tool Renal 50 50 50 3-46 Totaling Tool Renal 50<			ers, Etc.											
3-44 Bilan Joni Roll Renal 50 3-46 Fabing Toxing Langescrin 515.000 3-47 Restand BOPE, Fras Stack, Lubricator 515.000 3-48 Miscellancous Completion 515.000 3-44 Miscellancous Completion 515.000 3-55 Contingeneis Completion 515.000 3-66 Structure Completion 515.000 3-707AL INFANGUAL COMPLETION CONST. 522.05.044 522.05.044 3-60 Structure Completion Engineent 522.05.044 522.05.044 3-60 Structure Completion Engineent 522.05.044 522.05.044 3-60 Structure Completion Engineent 522.05.044 50 3-60 Structure Completion Engineent 522.05.044 50 3-60 Structure Completion Engineent 50 50 4-60 Bital Joint Structure Completion Engineent 50 50 4-70 Descingtonest Engineent Structure Completion Engineent 50 50 4-71 Descington Engineent Structure Completion Engineent Structure Completion Engineent Structure Completion Engineent Structure Completion Engi			Mud Etc					-						
3-46 Fabing Tool Renal 50 3-48 Tabing Tool Renal 500 3-50 Press Control Equip Rental- BOPK, Fire Stack, Lubricator 500,000 3-52 Well Traing Equipmental Cabor 515,000 3-54 Tabingenics Completion 500,000 3-54 Control Equip Rental-BOPK, Fire Stack, Lubricator 500,000 3-54 Control Equip Rental-BOPK, Fire Stack, Lubricator 500,000 3-55 Control Equipmental Cabor 57,060,00 400 ** IDC - COMPLETION ** DRILLING COMPLETION 401 Fabric DRILLING COMPLETION 404 Plag Statual Statual 404 Plag Statual Statual 405 Hata Join Statual Statual 410 Compression Equipment Statual Statual 4110 Compression Equipment Statual Statual 4120 Deplayment-Motor, File. Statual Statual 413 Atomion Equipment Statual Statual Statual 414 Exectina Equipment Statual <t< td=""><td></td><td></td><td>viuu, EIC.</td><td></td><th></th><td></td><td></td><td>4 </td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			viuu, EIC.					4						
3-4.9 Tubing Testing & Inspection \$15,000 3-50 Pres Count Equip ment & Labor \$30,000 3-54 Miscellanous Completion \$30,000 3-55 Contingencis Completion \$30,000 3-54 Miscellanous Completion \$30,000 3-55 Contingencis Completion \$30,000 3-56 Contingencis Completion \$30,000 3-57 TALINANOULL COMPLETION COSTS: \$2,20,844 4-00 ** IDC - COMPLETION COSTS: \$2,20,844 4-01 Introduction \$30,000 4-02 Introduction \$30,000 4-03 NUPPLEMINTAL \$30,000 4-04 Introduction \$30,000 4-05 Introduction \$30,000 4-06 Introduction \$30,000 4-07 Introduction \$30,000 4-08 Internation \$30,000 4-09 Introduction Tandos \$40,000 4-10 Introduction Tandos \$30,000 4-114 Internation Introduction \$30,000 4-120 Internation Introduction \$30,0								4						
3-30 Irest Control Equip Rendi- BOLE, Free Stack, Lubricator \$30000 \$31000 3-52 Wite relating Equipment \$31000 \$31000 3-54 Miscellanous Completion 31000 \$31000 3-55 Control Equip Requipment \$32,926,844 \$31000 4-00 ** IDC - COMPLETION COSTS: \$32,926,844 \$31000 4-01 Tubing \$32,926,844 \$3000 4-02 ** IDC - COMPLETION ** \$32,926,844 \$300 4-04 #asset \$3000 \$31000 \$31000 4-05 #asset \$3000 \$31000 \$31000 \$31000 4-06 Bias Joint \$3000 \$3000 \$310000			nection					4						
3-34 Miscilaneous Completion 530,000 3-54 Miscilaneous Completion 530,000 3-56 Contingenetis Completion 52,000,71 3-50 Contingenetis Completion CONTS: 52,206,841 4-00 ** IDC - COMPLETION CONTS: DRILLING COMPLETION 4-00 ** IDC - COMPLETION CONTS: DRILLING COMPLETION 4-00 Faces S0 S0 4-01 Tubing S12,206,841 S0 4-02 Packers S0 S0 4-04 Flags S0 S0 4-05 Miscilaneous Completion Equipment S1,202,000 S0 4-10 Compression Equipment S1,202 S1 4-11 Deviction Fasis S1,202 S1 4-12 Dedviction Equipment S1,202 S1 4-14 Eccrical Equipment - Moore, Etc. S1,202 S1 4-14 Eccrical Equipment - Moore, Etc. S1,202 S1 4-14 Eccrical Equipment - Moore, Etc. S1,202 S1 4-15 Autoring Equipment - Moore, Etc. S1,200				E Erac St	tack Lubri	cator		1				-		
3.34 Miscellaneous Completion 10% Signal State Configuration Costs: TOTAL INTANGIBLE CONFLETION COSTS: Signal State Configuration State C					uer, Luon	catOI		1						
3.56 Contingencia Completion 10% \$226,077 TOTAL INTANGUE COMPLETION COSTS: \$2,226,844 \$2,226,844 4.00 ** IDC - COMPLETION COSTS: \$82,926,844 \$10000 4.00 ** IDC - COMPLETION ** \$10000 \$10000 \$10000 4.00 #* IDC - COMPLETION ** \$10000														
StandBill COMPLETION COSTS: TANGBILE COMPLETION COSTS: DRILLING COMPLETION 440 ** IDC - COMPLETION ** 401 fubing 402 Packers 403 fubing 404 Plags 405 Statument 406 Bast Joint 407 fubing 408 Miscellaneous Completion Equipment 409 Environmental Equipment 400 Environmental Equipment 414 Electrical Equipment 415 Automation Equipment 416 Injection Transfer Pump 418 Mere & Mere Run 420 Saturation Equipment 4218 Separation Equipment 422 Folduction Tasks 423 Folduction Tasks 424 Bourdicion Tasks 425 Numping Unit 434 Valves, Gaurges and Miscellaneous 434 Folduction Task 434 Valves, Gaurges and Miscellaneous 43				109	%			1 1						
TANGBBLE COMPLETION COSTS: DBLLING COMPLETION 400 ** IDC - COMPLETION **														
4400 ** IDC - COMPLETION ** 401 Tubing 402 Packers 404 Plugs 404 Plugs 406 Blast Joint 408 MixedInaneus Completion Equipment 409 Environmental Equipment 410 Compression Equipment 4112 Dehydration Equipment 4123 Dehydration Equipment 4124 Dehydration Equipment 413 Natomation Equipment 414 Bleter & Meter Run 415 Automation Equipment 416 Injection Transite Thunp 417 Station Tranks 420 Samation Equipment 420 Sala Mater Run 4215 Injection Transite Thunp 4220 Forduction Transite Thunp 4231 Valuer Canker 4242 Spantion Equipment 4253 Formp 426 Formation Equipment 427 Spantion Equipment 428 Formp Lead	10				15:							<u>*</u>		
4-01 Tubing \$28,000 4-02 Packers \$0 4-04 Plugs \$0 4-06 Blast Join \$0 4-08 Miscellancous Completion Equipment \$30 4-09 Environmental Equipment \$45,738 4-09 Environmental Equipment \$46,29 4-10 Compression Equipment \$39,969 4-11 Dehydration Equipment \$39,969 4-12 Dehydration Equipment \$30 4-14 Electrical Equipment \$30 4-15 Automation Equipment \$30 4-16 Injection / Transfer Pump \$31,80 4-16 Injection / Transfer Pump \$34,612 4-20 Salt Water Tanks \$32,865 4-22 Production Tanks \$35,365 4-23 Pump \$31,000 4-34 Regaration Equipment \$31,000 4-35 Automation Equipment \$31,000 4-34 Valves, Gauges and Miscellaneous \$31,500 4-35 Automation Equipment \$31,500 4-30 R		TANGIBLE COMI	PLETION C	OSTS:] [DRILLING		COMPLETION		SUPPL	EMENTAL
4-02 Packers \$0 4-04 Plugs \$0 4-06 Blast Joint \$0 4-07 Evironmental Equipment \$0 4-08 Miscellancous Completion Equipment \$45,738 \$1 4-09 Evironmental Equipment \$44,629 \$1 4-10 Compression Equipment \$9,969 \$1 4-11 Electrical Equipment \$91,225 \$1 4-14 Electrical Equipment \$1,200 \$1 4-15 Antomation Equipment \$1,819 \$1 4-16 Injection / Transfer Pump \$1,819 \$1 4-18 Meter & Run \$1,235 \$1 4-20 Salt Water Tanks \$28,865 \$2 4-21 Production Tanks \$3,5355 \$1 4-22 Production Tanks \$10,000 \$1 4-32 Path Water Tank S \$10,000 \$1 4-33 Rod String \$10,000 \$1 \$1 4-34 Separation Equipment \$10,000 \$1 \$1 4-34 Noting Head <td>4-00</td> <td>** IDC - CO</td> <td>MPLETION</td> <td>N **</td> <th></th> <td></td> <td></td> <td>]</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	4-00	** IDC - CO	MPLETION	N **]						
4-02 Packers \$0 4-04 Plugs \$0 4-06 Blast Joint \$0 4-07 Evironmental Equipment \$0 4-08 Miscellancous Completion Equipment \$45,738 \$1 4-09 Evironmental Equipment \$44,629 \$1 4-10 Compression Equipment \$9,969 \$1 4-11 Electrical Equipment \$91,225 \$1 4-14 Electrical Equipment \$1,200 \$1 4-15 Antomation Equipment \$1,819 \$1 4-16 Injection / Transfer Pump \$1,819 \$1 4-18 Meter & Run \$1,235 \$1 4-20 Salt Water Tanks \$28,865 \$2 4-21 Production Tanks \$3,5355 \$1 4-22 Production Tanks \$10,000 \$1 4-32 Path Water Tank S \$10,000 \$1 4-33 Rod String \$10,000 \$1 \$1 4-34 Separation Equipment \$10,000 \$1 \$1 4-34 Noting Head <td>4-01</td> <td>Tubing</td> <td></td> <td></td> <th></th> <td></td> <td></td> <td>i i</td> <td></td> <td></td> <td>\$28.00</td> <td>0</td> <td></td> <td></td>	4-01	Tubing						i i			\$28.00	0		
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409 Environmental Equipment 410 Compression Equipment 412 Dehystation Equipment 414 Electrical Equipment - Motors, Ele. 414 Electrical Equipment - Motors, Ele. 416 Injection / Transfer Pump 418 Meter & Meter Run 420 Salt Water Tanks 422 Production Tanks 423 Salt Water Tanks 424 Separation Equipment 425 Automation Equipment 426 Salt Water Tanks 427 Sparation Equipment 428 Pumping 429 Nuclei Salt Salt Salt Salt Salt Salt Salt Salt	4-06	Blast Joint									\$	0		
4-10 Compression Equipment \$9,969	4-08	Miscellaneous Comp	letion Equip	ment							\$45,73	8		
4-12 Dehydration Equipment \$0 4-14 Electrical Equipment \$91,225 4-15 Automation Equipment \$0 4-16 Injection / Transfer Pump \$81,89 4-18 Meter & Meter Run \$44,612 4-20 Salt Water Tanks \$28,865 4-22 Production Tanks \$35,365 4-24 Separation Equipment \$31,000 4-25 Pump \$10,000 4-26 Salt mater Tanks \$30 4-27 Production Tanks \$31,000 4-28 Pumping Unit \$10,000 4-29 Puming Unit \$0 4-30 Rod String \$11,000 4-31 Valves, Gauges and Miscellaneous \$12,000 4-32 Tubing Head \$12,000 4-34 Flowline \$15,000 515,000 \$15,000 \$15,000 4-34 Flowline \$12,736,568 707AL COMPLETION COSTS \$1,736,568 \$3,478,051 707AL COMPLETED WELL COST \$5,214,619 \$5,214,619	4-09	Environmental Equip	ment					1			\$4,62	9		
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Approved by:	TOTAL CO	MPLETION COST]			\$3,478,05	1		
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Compony	Approved	by:						_				-		
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Title:

Signed this _____ Day of _____

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OPERATOI LEASE:	R: Longfellow Energy, LP Marley State 31CD	WELL NO.	002H	FIELD: Loco H	Hills AFE #:	DATE: 4	/8/2022
LOCATION		Section 36-17S-27		PROPOSED		ft (MD)	0/2022
LOCATION		Section 31-17S-28	E	VERTICAL		RE-ENTRY	
OBJECTIV		Estimated @	3900'	ft TVD HORIZONT		WORKOVER	
REMARKS	Loco Hills Project - Eddy County, NM	Estimated @	9500'	ft MD	REVIEWI	ED BY:	
	INTANGIBLE DRILLING COSTS		DRILLING	COMPLE	TION	SUPPLEMEN	TAL.
1-00	** IDC - DRILLING **					- COLLEGIC	
1-02	Rig Diesel		\$63,180				
1-03	Rig Rentals		\$25,000				
1-04	Location / Construction		\$105,000				
1-05	Drilling Insurance		\$5,000				
1-06	Permits		\$7,500				
1-07 1-08	Title Opinion / Regulatory Fees Survey		\$40,000 \$7,500	•			
1-08	Right-of-Way		\$15,000				
1-12	Pit Lining / Fences		\$0				
1-14	Trucking		\$7,500				
1-16	Air / Gas Services		\$0				
1-18	Supervision		\$80,000				
1-19 1-20	Drilling Overhead Rig Mobilization / Demobilization		\$25,000 \$85,000	•			
1-20	Bits / Underreamers, Etc.		\$60,000				
1-22	Directional Tools & Supervision	——————————————————————————————————————	\$130,000	† ├───			-
1-24	Hammer Rental / Supervision		\$0				
1-25	Cement Plug / Squeeze		\$0				
1-26	Drilling Mud & Transportation		\$29,500	┨	ł		
1-27	Mud Diesel Mud Logging & Goo stooring		\$0	┨ ┣━━━━			
1-28 1-29	Mud Logging & Geo-steering Mud Remediation		\$15,000 \$0	┨ ┣━━━━			
1-29	Drill String & BHA Rental	——————————————————————————————————————	\$20,000	╽ ┝───			
1-31	Coring		\$0				
1-32	Drill Stem Tests		\$0				
	Contract Daywork Drilling		\$0	ļ [
1-34	12.0 days @ \$17,750 / day		\$213,000	┨			
1-36 1-38	Casing Crews, PU & LD Fishing Tool Rentals		\$20,000 \$0	i —			
1-38	Rathole / Mousehole / Conductor		\$25,000				
1-42	Water - Fresh / Brine		\$50,000				
1-43	Waste Water / Mud Disposal		\$29,000				
1-44	Well Control Equipment		\$0				
1-46	Trash Trailer		\$2,000				
1-48	Surface Pipe Cementing		\$20,000				
1-50 1-51	Intermediate Pipe Cementing Contractor Ser. (Roustabout, Testor, etc.)		\$0 \$30,000				
1-51	Production Casing Cementing		\$36,500				
1-56	Open-Hole Logging OH Logs & Core processing		\$0				
1-58	Drilling Contingencies	10%	\$102,768				
1-60	Surface Damages		\$3,750				
1-62	Rotating Head & Expendables		\$8,500				
1-64 1-66	Miscellaneous Drilling Welding During Drilling		\$60,000 \$5,500				
1-68	Miscellaneous Equipment Rentals		\$35,000	•			
1-70	Centralizers & Float Equipment		\$33,000				
1	TOTAL INTANGIBLE DRILLING COSTS:		<i>\$1,394,198</i>	i –			
	TANGIBLE DRILLING COSTS:		DRILLING	COMPLE	TION	SUPPLEMEN	TAL
2-00	** IDC - DRILLING **						
TUBULAR	GOODS (Surf., Inter., Prod., Tbg)						
	Size Grade Weight Thread Length			↓			
2-02 2-04	9-5/8" J-55 36.00 LT&C 1300 \$40.80 7" L-80 32.00 BT&C 4300 \$33.49		\$51,740 \$140,180	┨ ┣━━━━━			
2-04	7 L-80 32.00 B1&C 4300 \$33.49 5-1/2" L-80 20.00 BT&C 5500 \$25.46		\$140,180	┪ ┝━━━━			
	- SURFACE EQUIPMENT		\$150,550	† ⊢───			
2-10	Casinghead(s)		\$13,500				
2-12	Liner Hanger & Packer	[\$0				
2-14	Open Hole Packers and Sleeves		\$0	┨ ┣━━━━			
2-16 2-18	Miscellaneous Flowline & Valves		\$0 \$0	┨ ┣━━━━			
2-10	TOTAL TANGIBLE DRILLING COSTS:			¦	<u></u>		
	TOTAL TANGIBLE DRILLING COSTS:		\$342,370	┨ ┣━━━━			
	INTANGIBLE COMPLETION COSTS:		DRILLING	COMPLE	TION	SUPPLEMEN	TAL.
3-00	** IDC - COMPLETION **			Contra			
3-02	Acidizing			i	\$0		
3-02	Fracturing	——————————————————————————————————————		\$	<u>\$0</u> 1,450,000		
3-04	Perforating	——————————————————————————————————————			\$130,000		
3-08	Cased Hole Logging				\$0		
3-10	CO2 / Boosters				\$0		
3-12	Electrician / Electrical Services			┨	\$28,333		
3-14	Equipment Rentals			┨ ┣━━━━	\$32,500		
3-15 3-16	Rentals- Potties, Lights, Trash Trailers Frac Tank Rentals			┨ ┣━━━━	\$5,000 \$10,000		
3-16	Restore Location	——————————————————————————————————————		╽ ┝───	\$3,000		
3-10	Right - Of - Way			├───	\$833		
3-22	Roustabout Crews				\$45,000		
3-23	Cement Plugs/Bridge Plugs				\$22,000		
3-24	Supervision			┨ ┣━━━━	\$42,500		
3-25 3-26	Completion Overhead Trucking			┨ ┣━━━━	\$10,500 \$35,733		
5-20	······6			ı L	لاد اولادي	L	

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UPPENDRX Lowellow-Earce, LP Note 1, 100, 100, 100, 100, 100, 100, 100,	OPERATOR	• Lonafello	w Energy T	p				-]
LOCATION: SRID: 2000 (NSE) NUM ADDID LOCATION: Very Texation IEE Section 36 107 S2TE VERTICAL X NUM NUM LOBLETION: Very Texation X IODMEZIONTAL X IODMEZIONTAL </td <td></td> <td></td> <td></td> <td>4</td> <td></td> <td></td> <td></td> <td>WELL NO</td> <td>002H</td> <td>FIFL D.</td> <td>Loco Hills</td> <td>AFF #·</td> <td>DATE:</td> <td>4/8/2022</td>				4				WELL NO	002H	FIFL D.	Loco Hills	AFF #·	DATE:	4/8/2022
LOCATION BIL 1780 PEL Socius 31:15:28 VERTICAL Relenting BORLETUNE Loss IIIIs hyper. Lidy Courty, IM Estimated © 3000 1: VD HORRAVILL NORKVIRE BEMARKS: Loss IIIIs hyper. Lidy Courty, IM Estimated © 9000 1: VD HORRAVILL NORKVIRE 328 Water Hailing Tresh				ESL	332'	FEL.				FIELD.		241° 12 TT.		4/0/2022
DIRECTVE: You Formation Database Process Process Directory Park X OURDEDBY: 237 Water Transfer: Path, Fill Pin														v l
BENNEX: Loc Hill Project. Eds (Comp, NM Estimated © SOU A.D. REVERVED RY; 3-37 Water Transfer. HD, Yoh, Fill Pre \$100				1.51	20		Estimated			ft TVD		x		
3-27 Water Tunder, H7, Pob, Fill Ph 5120,00 531,400 3-30 Witter Tunder, H7, Pob, Fill Ph 5120,00 531,400 3-30 Witter Tunder, H7, Pob, Fill Ph 5120,00 531,400 3-30 Witter Tunder, H7, Pob, Fill Ph 5120,00 531,400 3-31 Technol Labor 527,00 537,00 3-32 Recent Bit/ Poor Swiel 527,00 530,00 3-33 Difficult Jabor 52,000 530,00 3-40 Campion Ref. Tunder, Euc. 530,00 530,00 3-41 Campion Failer, Mal., faile. 530,00 530,00 3-42 Campion Failer, Mal., faile. 530,00 530,00 3-43 Uniting Equipments ALLow 530,00 530,00 3-44 Uniting Equipments ALLow 530,00 530,00 3-55,000 Station Failer, Mal., faile. 530,00 530,00 3-50 Prest Control Equipment 530,00 530,00 530,00 3-50 Prest Control Equipment 530,00 530,00 530,00 5				ddy Cour	ty NM						HORIZOITTAL			
328 Wate Italing - Freds SSL4.00		. Loco min	stroject D	duy coun	ity, 1401		Lotinuted	<u> </u>	7500			RE THE TH		
328 Wate Italing - Freds SSL4.00	3-27	Water Transfer- 10", F	Poly, Fill Pit					1 1			\$170.000	d i		
3.30 ND Disposi. Human, Pad Disposi. Puby 3.31 Exclusion Variation Variatio								1						
330 Sitchine Work 51 331 Technol Lakor 52 332 Reverse Wait / Doay Skyted 53 333 Inclusion Ray 53 344 Ditta Nis, Unit reasoner, Ex. 53 345 Machine Work 53 346 Telaing Toole Read 53 347 Ditta Nis, Unit reasoner, Ex. 53 348 Telaing Toole Read 53 349 Telaing Toole Read 53 340 Telaing Toole Read 53 341 Machine Work 53 342 Machine Work 53 343 Machine Work 53 344 Machine Work 53 345 Machine Work 53				osal Poly				1						
3-31 Technol Like \$37,400 3-32 Receve Unit Power Sweet \$35,000 3-33 Titteking, Kill Tueki. \$30 3-34 Receve Unit Power Sweet \$30 3-35 Dill Statis \$31 3-36 Dill Statis \$32 3-37 Dill Statis \$31 3-38 Dill Statis \$31 3-39 Dill Statis \$31 3-30 Compteins Fluids - Mail. Ex. \$31,000 3-40 Compteins Fluids - Mail. Ex. \$31,000 3-41 Dill Tool Recold \$30 3-42 Compteins Fluids - Mail. Ex. \$31,000 3-44 Dill Tool Recold \$30,000 3-54 Witter Statis Date Statis \$30,000 3-54 Mailer Statis \$30,000 3-54 Witter Statis Date Statis \$30,000 3-54 Witter Statis			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,											
3-32 Revere Unit Power Saved 58 3-33 Trocking, NIT Track 50 3-34 Galage Saved 50 3-35 Trocking, NIT Track 50 3-34 Galage Saved 51 3-34 Galage Saved 51 3-34 Galage Saved 51 3-34 Galage Saved 51 3-35 Trock Saved 51 3-40 Completion Fluin 51 3-41 Galage Saved 51 3-42 Completion Fluin 51 3-44 Bital Saved 51 3-45 Completion Fluin 51 3-46 Fluing Troth Read 51 3-47 Completion Fluin 51 3-48 Total Strandbard Strandbard Strandbard 51 3-5 Completion Fluin 51 3-6 Completion Fluin 51 3-7 Completion Fluin 51 3-8 Completion Fluin 51 3-9 Completion Fluin 51 3-9 Completion Fluin 51 3-9 Completion Fluin 51 3-9 Completion Fluin 51 3-10 Strandbard 51											\$27,400			
3-33 Tacking Kill Track 50 3-34 4.0 dors 5100 3-36 Actions 5100 51000 3-38 Actions 51000 51000 3-38 Actions 51000 51000 3-38 Actions 51000 51000 3-40 Complexity Restances, Res. 512000 50 3-41 Michael BOPF, Fris Stack, Labricator 515000 50 3-44 Michael BOPF, Fris Stack, Labricator 51500 50 3-44 Michael Bope BOPF, Fris Stack, Labricator 51000 51000			Swivel											
Scouption Ray Dayook \$30	3-33							1						
3-34 4.0 does \$10000 3-36 Ackors \$15000 3-37 Ackors \$15000 3-38 Ackors \$15000 3-40 California Units, Unit-smarte, Ec. \$15000 3-41 Oli Tokis Endit \$15000 3-44 Oli Tokis Endit \$15000 3-44 Oli Tokis Endit \$15000 3-44 Oli Tokis Endit \$15000 3-45 Michain Tool Rendit \$15000 3-46 Oli Toking Endit \$15000 3-51 Micching Rendit \$15000 3-54 Micching Rendit \$16000 3-54 Micching Rendit \$16000 3-55 Micching Rendit \$16000 3-56 Micching Rendit \$16000								1			\$0			
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3-40 Conta Tubug Uui 50 3-42 Conta Tubug Uui 50 3-42 Conta Tubug Tool Read 50 3-44 Dit Tool Read 50 3-46 Fubug Tosting Kangachia KOPE, Fraz Stack, Lubicator 510 3-50 Press Control Equip Readin KOPE, Fraz Stack, Lubicator 510 3-61 Misclineous Completion 106 51,667 3-7 TAXVERDEE COMPRESS TON COSTS: 522,6607 522,6607 7 TAXVERDEE COMPRESS TON COSTS: 522,624.41 50 7 TAXVERDEE COMPRESS TON COSTS: 522,620.1 50 7 TORMANDE Compress Tool Completion Equipment 51,607 51,607 8 Torit	3-36	Anchors									\$2,500			
3-42 Dirphon Pinkis - Mai, Ec. \$120,000 3-44 Dirol Renal \$0 3-45 Dirol Renal \$0 3-46 Phing Tool Renal \$0 3-47 Dirol Renal \$0 3-48 Dirol Renal \$0 3-44 Dirol Renal \$0 3-50 Completion \$50,000 3-54 Miscellaneous Completion \$50,000 3-56 Completion Plank \$50,000 3-56 Completion \$50,000 3-56 Completion Plank \$50,000 3-56 Completion Plank \$50,000 3-56 Completion Plank \$50,000 3-56 Completion Plank \$50,000 3-57 Completion Plank \$50,000 3-50 Subletion Completion Plank \$50,000 3-50 Subletion Plank \$50,000	3-38	Drill bits, Unde-reame	ers, Etc.								\$3,000			
3-44 DH Tool Result S0 3-45 Dishing Tool Result S0 3-46 Dishing Tool Result S0 3-50 Presc Control Equip Result-BOPE, Frac Stack, Labricator S15,000 3-51 Miscellancous Completion S0,0000 3-54 Miscellancous Completion S0,0000 3-56 Contingenies Completion S2,06,071 TOTAL NARAWER & CONTRETTION COSTS: S2,026,644 S2,000,01 4-00 ** DC - CONTRETTION COSTS: S2,026,644 S1,000 4-01 Tobing S2,000,01 S2,000,01 4-02 Pickers S0 S1,000 4-03 Pickers S0 S1,000 4-04 Pickers S0 S1,000 4-05 S2,000,01 S1,000 S1,000 4-04 Pickers S0 S1,000 4-05 Blat Join S1,200 S1,000 4-15 Lacinean Equipment S1,200 S1,000 4-16 Environmental Equipment S1,200 S1,000 4-17 Lacinean Equipment S1,200 S1,000 4-18 Marker Mater Run S1,200 S1,000 4-19 Lacinean Equipment S1,200 S10,000 <	3-40	Coiled Tubing Unit									\$0			
3-44 DH Tool Result S0 3-45 Dishing Tool Result S0 3-46 Dishing Tool Result S0 3-50 Presc Control Equip Result-BOPE, Frac Stack, Labricator S15,000 3-51 Miscellancous Completion S0,0000 3-54 Miscellancous Completion S0,0000 3-56 Contingenies Completion S2,06,071 TOTAL NARAWER & CONTRETTION COSTS: S2,026,644 S2,000,01 4-00 ** DC - CONTRETTION COSTS: S2,026,644 S1,000 4-01 Tobing S2,000,01 S2,000,01 4-02 Pickers S0 S1,000 4-03 Pickers S0 S1,000 4-04 Pickers S0 S1,000 4-05 S2,000,01 S1,000 S1,000 4-04 Pickers S0 S1,000 4-05 Blat Join S1,200 S1,000 4-15 Lacinean Equipment S1,200 S1,000 4-16 Environmental Equipment S1,200 S1,000 4-17 Lacinean Equipment S1,200 S1,000 4-18 Marker Mater Run S1,200 S1,000 4-19 Lacinean Equipment S1,200 S10,000 <	3-42	Completion Fluids - M	Mud, Etc.] [\$120,000			
3-48 Tubing Testing & Importing A. Important B-OPE, Figs Stack, Lubricator \$50, Ores. \$50,000 \$50,000 3-50 Pres Control Equip Rental-B-OPE, Figs Stack, Lubricator \$50,000 \$50,000 3-54 Miscellancoux Completion 10% \$52,66,077 3-50 Pres ComPLETION COSTS: \$22,66,077 \$22,66,077 3-60 ** IDC - COMPLETION COSTS: \$22,66,077 \$32,000 4-00 ** IDC - COMPLETION COSTS: \$22,66,077 \$32,000 4-01 Iphing \$32,000 \$32,000 \$32,000 4-03 ** IDC - COMPLETION COSTS: \$22,000 \$32,000 \$32,000 4-04 figs \$30 \$30 \$30 4-05 preprision Equipment \$30 \$30 \$30 4-06 Environment Equipment \$45,738 \$30 \$30 \$30 4-16 Environment Equipment \$34,629 \$30 <td>3-44</td> <td>DH Tool Rental</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>] [</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	3-44	DH Tool Rental] [
3-50 Irest Control Equip Rental: Bolty \$30000 \$310 3-52 Witscellaneous Completion \$30000 \$31000 3-54 Miscellaneous Completion \$30000 \$31000 3-56 Contrigencis Completion \$30000 \$31000 3-56 Contrigencis Completion \$30000 \$31000 3-56 Contrigencis Completion \$30000 \$31000 4-00 Inbing \$2206,444 \$1000 4-01 Inbing \$1000 \$10000 4-02 Packers \$100 \$10000 4-03 Inbing \$10000 \$10000 4-04 Proje \$10000 \$10000 4-05 Redencous Completion Equipment \$10000 \$10000 4-06 Base Joint \$10000 \$10000 4-10 Compression Equipment \$10000 \$10000 4-11 Deckres \$10000 \$10000 4-12 Deckres \$10000 \$10000 4-13 Automation Equipment \$10000 \$10000 4-14 Deckres \$10000 \$10000 4-14 Deckres \$10000 \$10000 4-14 Deckres \$10000 \$10000	3-46	Fishing Tool Rental						j l			\$0			
3.21 Well Testing Equipment & Labor \$30,0001 3.34 Micelaneous Completion 10% 3.35 Contingencies Completion 10% 3.36 Micelaneous Completion 10% 3.36 Micelaneous Completion Consts; 52,026,441 3.40 ** IDC - COMPLETION CONSt; DBILLING COMPLETION 4.40 ** IDC - COMPLETION ** DBILLING SUPPLEMENTAL 4.41 Paters \$10 S10 SUPPLEMENTAL 4.44 Paters \$10 \$28,000 \$10 SUPPLEMENTAL 4.44 Paters \$10 \$28,000 \$10 \$10 4.44 Paters \$10 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>j [</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								j [
3.34 Micellaeous Completion 10% Store Completion 10% TOTAL INTANGULE COMPLETION COSTS: DBILING COMPLETION COSTS:					ack, Lubri	cator] [
3-56 Contingencies Completion 10% \$2266.077					-] [
TOTALINTANGIBLE COMPLETION COSTS: SLEPPLEMENTAL TANGBLE COMPLETION COSTS: 400 ** IDC - COMPLETION ** 401 Thing 402 Packers 403 Fullisg 404 Plays 405 Standard 406 Biast Joint 407 Things 408 Miscilaneous Completion Equipment 409 Environmental Equipment 4112 Debytration Equipment 413 Bactrical Equipment 414 Electrical Equipment 415 Infection Transfer Pump 416 Injection Transfer Pump 417 Debytration Equipment 418 Meter & Meter Run 418 Meter & Meter Run 420 Sali Water Tanks 4212 Debutcion Traks 422 Pouteion Traks 423 Rumping Unit 434 Valvers, Gaurges and Miscellaneous 434 Valvers, Gaurges and Miscellaneous 433 Antificial Int and Accessories 434 Valvers, Gaurges and Miscellaneous 434 Valvers, Gaurges and Miscellaneous 434 Valvers, Gaurges and Miscellaneous 434 Valvers, G														
Interpretation DRULING COMPLETION 440 ** IDC - COMPLETION **	3-56	Contingencies Compl	etion	109	%] [\$266,077			
440 ** DC - COMPLETION ** 4-01 Tubing 4-01 Tubing 4-02 Packers 4-04 Plags 4-05 Bist Joint 4-06 Bist Joint 4-07 Packers 4-08 Miscellancous Completion Equipment 4-09 Environmental Equipment 4-09 Environmental Equipment 4-012 Delvistration Equipment 4-104 Delvistration Equipment 4-114 Electrical Equipment 4-12 Delvistration Equipment 4-134 Meter & Meter Run 4-14 Stacker 4-15 Injection / Transfer Pump 4-16 Injection / Transfer Pump 4-17 Stacker 4-20 Salt Water Tanks 4-22 Production Tanks 4-23 Panuping Unit 4-30 Rol String 4-31 Salt Water Tanks 4-32 Tubing Head 4-33 Rol String 4-34	ТО	TAL INTANGIBLE C	COMPLETI	ON COST	TS:] [\$2,926,844	T		
440 ** DC - COMPLETION ** 4-01 Tubing 4-01 Tubing 4-02 Packers 4-04 Plags 4-05 Bist Joint 4-06 Bist Joint 4-07 Packers 4-08 Miscellancous Completion Equipment 4-09 Environmental Equipment 4-09 Environmental Equipment 4-012 Delvistration Equipment 4-104 Delvistration Equipment 4-114 Electrical Equipment 4-12 Delvistration Equipment 4-134 Meter & Meter Run 4-14 Stacker 4-15 Injection / Transfer Pump 4-16 Injection / Transfer Pump 4-17 Stacker 4-20 Salt Water Tanks 4-22 Production Tanks 4-23 Panuping Unit 4-30 Rol String 4-31 Salt Water Tanks 4-32 Tubing Head 4-33 Rol String 4-34		THE CONTRACTOR		ocre				- - -	DBULDUG		COMPLETION	_ _	CUDDI	
4-01 Tubing \$28,000 4-02 Peckers \$0 4-04 Plugs \$0 4-06 Bitst Join \$0 4-08 Miscellancoux Completion Equipment \$45,738 4-09 Environmental Equipment \$4,629 4-10 Compression Equipment \$3,000 4-11 Dehydration Equipment \$3,000 4-12 Dehydration Equipment \$30,000 4-14 Electrical Equipment \$30,000 4-15 Automation Equipment \$30,000 4-16 Injection / Transfer Pump \$31,225 4-16 Micer & Meter Kun \$44,612 4-20 Salt Water Tanks \$35,255 4-22 Production Tanks \$35,355 4-23 Production Tanks \$35,265 4-24 Separation Equipment \$35,265 4-33 And Sing \$30 4-34 Valves, Gauges and Miscellaneous \$31,2000 4-34 Valves, Gauges and Miscellaneous \$31,2000 4-34 Valves, Gauges and Miscellaneous \$31,2000									DRILLING		COMPLETION	<u>-</u>	SUPPL	EMENTAL
4-02 Packers \$0 \$0 4-04 Pigs \$0 \$0 \$0 4-06 Bast Joint \$0	4-00	** IDC - CO!	MPLETION	N **] [
4-04 Plags \$0 \$0 4-06 Blast Joint \$0 \$1 4-08 Miscellaneous Completion Equipment \$1 \$1 4-09 Environmental Equipment \$4,629 \$1 4-10 Compression Equipment \$1,620 \$1 4-11 Dehydration Equipment \$9,060 \$1 4-14 Electrical Equipment \$9,060 \$1 4-14 Electrical Equipment \$9,060 \$1 4-14 Electrical Equipment \$9,060 \$1 4-16 Injection / Transfer Pump \$1 \$1 4-18 Meter & Meter Run \$1 \$1 4-18 Meter & Meter Run \$3,81,89 \$1 4-22 Production Tanks \$3,53,65 \$2 4-24 Production Equipment \$10,000 \$1 4-33 Rod String \$10,000 \$1 4-34 Separation Equipment \$10,000 \$1 4-35 Pumping Unit \$10,000 \$1 \$10,000 \$1 4-34 Valves, Gauges and Miscellaneous	4-01	Tubing] [\$28,000			
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4-08 Miscellaneous Completion Equipment 4-09 Environmental Equipment 4-00 Environmental Equipment 4-10 Compression Equipment 4-11 Electrical Equipment 4-12 Dehydration Equipment 4-14 Electrical Equipment 4-15 Automation Equipment 4-16 Injection / Transfer Pump 4-17 Sali Water Run 4-18 Meter & Meter Run 4-20 Sali Water Tanks 4-22 Production Tanks 4-22 Production Tanks 4-22 Production Tanks 4-23 Sali Water Tanks 4-24 Separation Equipment 4-25 Pump 4-26 Pump 4-27 Production Tanks 4-28 Pump [unit 4-30 Rod String 4-31 Valves, Gauges and Miscellaneous 4-32 Tubing Head 4-33 Valves, Gauges and Miscellaneous 4-34 Stringial Lift and Accessories 4-35 Stringial Lift and Accessories 510:000	4-04	Plugs									\$0			
4-09 Environmental Equipment \$4,629														
4-10 Compression Equipment \$9,969				ment										
4-12 Dehydration Equipment \$0 4-14 Electrical Equipment \$91,225 4-15 Automation Equipment \$0 4-16 Injection / Transfer Pump \$81,89 4-18 Meter & Meter & Run \$84,89 4-20 Salt Water Tanks \$28,865 4-22 Production Tanks \$353,365 4-23 Pumping Unit \$30 4-26 Pump \$110,000 4-27 Salt Water Tanks \$353,365 4-28 Pumping Unit \$30 4-29 Rod String \$10,000 4-30 Rod String \$10,000 4-31 Autoriscial and Accessories \$10,000 4-32 Tubing Head \$12,000 4-33 Artificial Lift and Accessories \$15,000 4-34 Flowline \$55,000 707AL TANGIBLE COMPLETION COSTS: \$1,736,568 707AL COMPLETED WELL COST \$1,736,568 80,975 \$1,736,568														
4-14 Electrical Equipment - Motors, Etc. 4-15 Automation Equipment 4-16 Injection / Transfer Pump 4-18 Meter & Meter Run 4-20 Salt Water Tanks 4-21 Separation Equipment 4-22 Production Tanks 4-24 Separation Equipment 4-25 Pumping Unit 4-26 Pumping Unit 4-30 Rod String 4-30 Rod String 4-30 Rod String 4-30 Formping Unit 4-30 Rod String 4-31 Salewages and Miscellaneous 4-32 Tubing Head 4-33 Artificial Lift and Accessories 4-30 Rod String 50 Sol 4-31 Valves, Gauges and Miscellaneous 4-32 Tubing Head 4-33 Artificial Lift and Accessories 4-30 Flowline TOTAL DRILLING COST \$31,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:														
415 Automation Equipment 50 416 Injection / Transfer Pump \$8,189 418 Meter & Meter Run \$34,4612 420 Salt Water Tanks \$34,4612 421 Separation Equipment \$35,365 422 Production Tanks \$35,365 423 Separation Equipment \$61,951 424 Separation Equipment \$61,951 425 Pump \$110,000 428 Pumping Unit \$0 430 Rod String \$0 432 Tubing Head \$12,000 433 Valves, Gauges and Miscellaneous \$12,000 434 Valves, Gauges and Miscellaneous \$15,5000 435 Stifue \$55,207 707AL TANGIBLE COMPLETION COSTS: \$1,736,568 707AL COMPLETED WELL COST \$3,478,051 707AL COMPLETED WELL COST \$5,214,619														
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4-20 Salt Water Tanks \$28,865 \$35,365 4-22 Production Tanks \$35,365 \$35,365 4-24 Separation Equipment \$61,951 \$61,951 4-26 Pump \$61,000 \$61 4-28 Pumping Unit \$0 \$61 4-30 Rod String \$0 \$61 4-32 Tubing Head \$110,000 \$0 4-33 Rod String \$12,000 \$61 4-34 Valves, Gauges and Miscellaneous \$12,000 \$61 4-38 Artificial Lift and Accessories \$15,000 \$15,000 4-30 Flowline \$15,000 \$51 4-40 Flowline \$15,000 \$551,207 TOTAL DRILLING COST \$1,736,568 \$3,478,051 TOTAL COMPLETED WELL COST \$1,736,568 \$3,478,051 Approved by:	-		ımp					4						
4-22 Production Tanks \$35,365 4-24 Separation Equipment \$\$61,951 4-26 Pump \$\$10,000 4-28 Pumping Unit \$\$0 4-30 Rod String \$\$10,000 4-31 Tubing Head \$\$10,000 4-32 Tubing Head \$\$12,000 4-33 Artificial Lift and Accessories \$\$18,8095 4-34 Flowline \$\$15,000 TOTAL TANGABLE COMPLETION COSTS; \$\$1,736,568 \$\$3,478,051 TOTAL COMPLETED WELL COST \$\$1,736,568 \$\$3,478,051 Approved by:								4						
4:24 Separation Equipment 4:26 Pump 4:28 Pumping Unit 4:30 Rod String 4:32 Tubing Head 4:34 Valves, Gauges and Miscellaneous 4:34 Flowline TOTAL TANGIBLE COMPLETION COSTS: \$15,000 TOTAL COMPLETION COSTS: \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:								4						
4-26 Pump \$110,000 4-28 Pumping Unit \$0 4-30 Rod String \$0 4-31 Rod String \$100,000 4-32 Tubing Head \$12,000 4-34 Valves, Gauges and Miscellaneous \$12,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$15,000 TOTAL TANGIBLE COMPLETION COSTS: \$55,1,207 TOTAL COMPLETION COSTS: \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:								4				4		
4-28 Pumping Unit \$0 \$0 4-30 Rod String \$0 \$0 4-32 Tubing Head \$0 \$12,000 4-34 Valves, Gauges and Miscellaneous \$14,8095 \$15,000 4-38 Artificial Lift and Accessories \$15,000 \$15,000 4-40 Flowline \$51,207 \$15,000 TOTAL TANGIBLE COMPLETION COSTS: \$1,736,568 \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 \$5,214,619 Approved by:			t					4				4		
4-30 Rod String \$0 \$1 4-30 Tubing Head \$12,000 \$14,000 4-34 Valves, Gauges and Miscellaneous \$4,8095 \$15,000 4-34 Flowline \$15,000 \$15,000 4-40 Flowline \$57,570 \$15,000 TOTAL TANGIBLE COMPLETION COSTS: \$551,207 \$16 TOTAL COMPLETION COST \$1,736,568 \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 \$5,214,619								4						
4-32 Tubing Head \$12,000 4-34 Valves, Gauges and Miscellaneous \$44,000 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$15,000 TOTAL TANGIBLE COMPLETION COSTS: \$55,700 TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:								4						
4-34 Valves, Gauges and Miscellaneous \$48,095 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETED WELL COST \$5,214,619								4						
4-38 Artificial Lift and Accessories \$15,000 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: \$55,1207 TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 Approved by:			Geneller					4				-		
4.40 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETION COST \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 Approved by:				8				4						
TOTAL TANGIBLE COMPLETION COSTS: \$551,207 TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETION COST \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619			cssories					4						
TOTAL DRILLING COST \$1,736,568 TOTAL COMPLETION COST \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 Approved by:				NGOG	0			4				=		
TOTAL COMPLETION COST \$3,478,051 TOTAL COMPLETED WELL COST \$5,214,619 Approved by:			JMPLETIO	N COSTS	S:			l l			\$551,207			
TOTAL COMPLETED WELL COST \$5,214,619 Approved by:	TOTAL DRI	LLING COST] [\$1,73	6,568				
Approved by:	TOTAL COM	MPLETION COST				-] _		_	\$3,478,051	T		
Approved by:	momite			a	-			-				- -	-	
	TOTAL	COMPLETED	WELL	COST				J			\$5,214,619			
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Title:

 Signed this ______ Day of ______
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Released to Imaging: 11/10/2022 5:06:36 PM



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OPERATO		111710 F	NO	0021	DIDLD:	Loss IElls	A DE #	DATE.	4/8/2022
LEASE: LOCATION	Marley State 31CD N: SHL 805' FSL 464' FEL	WELL Section	NO. 36-17S-27E	003H	FIELD:	Loco Hills PROPOSED TD:	AFE #:	DATE: ft (MD)	4/8/2022
LOCATION			31-17S-28E			VERTICAL		RE-ENTRY	T
OBJECTIV		Estimated @	J1-175-20L	3500'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS		Estimated @		9200'	ft MD		REVIEWE		
					-				
	INTANGIBLE DRILLING COSTS			DRILLING		COMPLETION		SUPPLEN	MENTAL
1-00	** IDC - DRILLING **				ļ		4		
1-02	Rig Diesel			\$63,180	Į.		4		
1-03	Rig Rentals			\$25,000	ł				
1-04 1-05	Location / Construction Drilling Insurance			\$105,000 \$5,000	ł			-	
1-05	Permits			\$7,500	ł				
1-00	Title Opinion / Regulatory Fees			\$40,000	ł				
1-08	Survey			\$7,500	t		-		
1-10	Right-of-Way			\$15,000	1		1		
1-12	Pit Lining / Fences			\$0	1				
1-14	Trucking			\$7,500	I				
1-16	Air / Gas Services			\$0	ļ		4		
1-18	Supervision			\$80,000	ł		4		
1-19	Drilling Overhead Rig Mobilization / Demobilization			\$25,000 \$85,000	ł				
1-20 1-22	Bits / Underreamers, Etc.			\$60,000	ł			-	
1-22	Directional Tools & Supervision			\$130,000	ł		-		
1-24	Hammer Rental / Supervision			\$0	t		-		
1-25	Cement Plug / Squeeze			\$0	1		1		
1-26	Drilling Mud & Transportation			\$29,500	1				
1-27	Mud Diesel			\$0	ļ		1		
1-28	Mud Logging & Geo-steering			\$15,000	ļ		_		
1-29	Mud Remediation			\$0	ł		4		
1-30	Drill String & BHA Rental			\$20,000	ł				
1-31 1-32	Coring Drill Stem Tests			\$0 \$0	ł				
1-32	Contract Daywork Drilling			\$0	ł			-	
1-34	12.0 days @ \$17,750 / day			\$213,000	ł				
1-36	Casing Crews, PU & LD			\$20,000	ł		-	-	
1-38	Fishing Tool Rentals			\$0	1		-		
1-40	Rathole / Mousehole / Conductor			\$25,000	1				
1-42	Water - Fresh / Brine			\$50,000	I				
1-43	Waste Water / Mud Disposal			\$29,000	ļ				
1-44	Well Control Equipment			\$0	ļ		4		
1-46	Trash Trailer			\$2,000	ł		4		
1-48 1-50	Surface Pipe Cementing Intermediate Pipe Cementing			\$20,000 \$0	ł			-	
1-50	Contractor Ser. (Roustabout, Testor, etc.)			\$30,000	ł				
1-51	Production Casing Cementing			\$36,500	ł				
1-56	Open-Hole Logging OH Logs & Core processing			\$0	t		-		
1-58	Drilling Contingencies	10%		\$102,768	1		-		
1-60	Surface Damages			\$3,750	t		1		
1-62	Rotating Head & Expendables			\$8,500	I				
1-64	Miscellaneous Drilling			\$60,000	ļ		4		
1-66	Welding During Drilling			\$5,500	ł		4		
1-68	Miscellaneous Equipment Rentals Centralizers & Float Equipment			\$35,000	ł		4		
1-70				\$33,000	1		4		
	TOTAL INTANGIBLE DRILLING COSTS:			<i>\$1,394,198</i>	1				
	TANGIBLE DRILLING COSTS:			DRILLING	T	COMPLETION	-	SUPPLE	MENTAL
2.00				DIGLANO	1 T	COMPLETION	-	JUTTEE	LIVIAL
2-00	** IDC - DRILLING **				1 T	<u> </u>	4		
TUBULAR	GOODS (Surf., Inter., Prod., Tbg)								
2-02	Size Grade Weight Thread Length 9-5/8" J-55 36.00 LT&C 1300 \$40.80			\$51,740	ł				
2-02 2-04	7" L-80 32.00 BT&C 4300 \$33.49			\$140,180	ł		-		
2-06	5-1/2" L-80 20.00 BT&C 5500 \$25.46			\$136,950	t		-		
	- SURFACE EQUIPMENT			\$0	t		1		
2-10	Casinghead(s)			\$13,500	I				
2-12	Liner Hanger & Packer			\$0	ļ		_		
2-14	Open Hole Packers and Sleeves			\$0	ł		4	L	
2-16	Miscellaneous			\$0 \$0	ł		4		
2-18	Flowline & Valves			\$0	1		4	L	
	TOTAL TANGIBLE DRILLING COSTS:			\$342,370	ł		4	L	
				DDU LDIG	ł	0.010	4	0	
	INTANGIBLE COMPLETION COSTS:			DRILLING	1	COMPLETION	<u> </u>	SUPPLEN	MENTAL
3-00	** IDC - COMPLETION **				Į				<u> </u>
3-02	Acidizing				ļ	\$			
3-04	Fracturing				ļ	\$1,450,000			
3-06	Perforating				ł	\$130,000			
3-08	Cased Hole Logging				ł	\$			
3-10 3-12	CO2 / Boosters Electrician / Electrical Services				ł	\$28,333			
3-12 3-14	Electrician / Electrical Services Equipment Rentals				ł	\$28,33.			
3-14 3-15	Rentals- Potties, Lights, Trash Trailers				ł	\$5,00			
3-15	Frac Tank Rentals				t	\$10,000			
3-18	Restore Location				1	\$3,00			
3-20	Right - Of - Way				1	\$83.			
3-22	Roustabout Crews				I	\$45,000)		
3-23	Cement Plugs/Bridge Plugs				ļ	\$22,000			
3-24	Supervision				ł	\$42,50			
3-25	Completion Overhead				ł	\$10,50			
3-26	Trucking		L		1	\$35,733	2	<u> </u>	

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LLASE Marks 2003 (CD WILL NO. OWH FILLS. Los Nih. PILE Los Nih. PILE ADD CACLTON: NIH. 100 FSL. 64 FEL. Section 1173 201. WILL ROS ON HILLS. NIHL	OPERATOR	Longfalla	w Enormy T	D				-						
IDCATTION SHI SOUTH FL Section 317:57E PROTORED The 0.000 COLTION: WH Tab. Section 317:57E PROTORED The 0.010 COLTION: Yes Formation Note: Section 317:57E PROTORED The 0.010 COLTION: Yes Formation Note: Section 317:57E PROTORED The 0.010 COLTION: Yes Formation Note: Section 317:57E PROTORED The 0.010 Section 317:57E Proto 0.010 NOTE: NO				r				WELL NO	003H	FIFI D.	Loco Hills	AFF #.	DATE	4/8/202
LÖCATION: BHL 104 F8L 207 F8TICAL REARKS REARKS: Loca Hild heiger. Fdb (corp.); M Estimated 9 300/ 0. TDD BORROVEL X: WORKOVER 237 Water Hunling: Frah 100 100 BORROVER Status 238 Water Hunling: Frah 100 1500 1500 1500 1500 239 Workpoort Hunling: Frah 1500 <t< td=""><td></td><td></td><td></td><td>ESI</td><td>464'</td><td>EET</td><td></td><td></td><td></td><td>FIELD:</td><td></td><td>AFL#:</td><td></td><td>4/0/202</td></t<>				ESI	464'	EET				FIELD:		AFL#:		4 /0/202
DRECTOR: Yoo Fermion Estimated 0 500° 1 TOD DREZATAL X WERKDURK 3437 Case Transfer: 07 Aby, FB1 Pr.		•										1		17
BERNEN: Loss Hills Payer, Eddy County, NM Estimated 0 2007 0. MD REVIEWED RY: 3-37 Water, Transfer, - Dy, Ny, Fill Pfe 510,000				FSL	20	FEL				6 mm		v		
9.1 Visc Tando: - 10° - Poly, Fill Pf 9.3 Visc Tando: - 10° - Poly, Fill Pf 9.3 External Lobo: 9.4 External Lobo: 9.5 External Lobo: 9.5 External Lobo: 9.6 </td <td></td> <td>HURIZUNTAL</td> <td></td> <td></td> <td>SK</td>											HURIZUNTAL			SK
3-38 Water Hanlag - Fresh \$34.800 3-39 Witer Hanlag - Fresh \$30.000 3-30 Sitchine Work \$30 3-31 External Lobor \$30 3-33 Decrease Unit / New Swind \$30 3-34 do dray - of \$2000 (day \$30 3-34 formelation Flags textual do dray - of \$2000 (day \$30000 (day 3-34 formelation Flags textual do dray - of \$2000 (day \$30000 (day 3-34 formelation Flags textual do dray - of \$20000 (day \$30000 (day 3-35 border frags textual do dray - of \$2000 (day \$30000 (day 3-36 border frags textual do dray - of \$2000 (day \$30000 (day 3-37 border frags textual do dray - of \$2000 (day \$30000 (day 3-38 border frags textual do dray - of \$20000 (day \$30000 (day </td <td>REMARKS:</td> <td>Loco Hills</td> <td>s Project - E</td> <td>ddy Cour</td> <td>ity, NM</td> <td></td> <td>Estimated</td> <td>(e)</td> <td>9200</td> <td>п мD</td> <td></td> <td>REVIEWE</td> <td>CD BY:</td> <td></td>	REMARKS:	Loco Hills	s Project - E	ddy Cour	ity, NM		Estimated	(e)	9200	п мD		REVIEWE	CD BY:	
3-38 Water Hanlag - Fresh \$34.800 3-39 Witer Hanlag - Fresh \$30.000 3-30 Sitchine Work \$30 3-31 External Lobor \$30 3-33 Decrease Unit / New Swind \$30 3-34 do dray - of \$2000 (day \$30 3-34 formelation Flags textual do dray - of \$2000 (day \$30000 (day 3-34 formelation Flags textual do dray - of \$2000 (day \$30000 (day 3-34 formelation Flags textual do dray - of \$20000 (day \$30000 (day 3-35 border frags textual do dray - of \$2000 (day \$30000 (day 3-36 border frags textual do dray - of \$2000 (day \$30000 (day 3-37 border frags textual do dray - of \$2000 (day \$30000 (day 3-38 border frags textual do dray - of \$20000 (day \$30000 (day </td <td>2.27</td> <td>Watan Transford 10" I</td> <td>Dala Till Die</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td><u> </u></td> <td>\$170.000</td> <td>1</td> <td></td> <td></td>	2.27	Watan Transford 10" I	Dala Till Die					1		<u> </u>	\$170.000	1		
3-30 Bit Work S10,000 S10,000 3-31 Discline Work S10,000 S10,000 3-34 databas S10,000 S10,000 S10,000 3-34 Discline Work S10,000 S10,000 S10,000 3-34 Discline Work S10,000 S10,000 S10,000 3-34 Discline Structure Million S10,000 S10,000 S10,000 S10,000 3-34 Discline Structure Million S10,000								-						
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3-10 Icentical Labor \$27,00 3-10 Icentify Ref (Dayout) \$30 3-10 Icentify Ref (Dayout) \$30 3-11 Icentify Ref (Dayout) \$30 3-12 Icentify Ref (Dayout) \$30 3-13 Icentify Intek \$30 3-14 Icentify Intek \$30 3-15 Icentify Intek \$30 3-16 Icentify Intek \$3000 3-16 Icentify Intek \$3000 3-16 Icentify Intek \$3000 3-16 Icentify Intek			g, Paid Disp	osal, Poly				-				4		
3.31 Berner Unit / Prove Sword 355,00 36 3.31 Fill Discusses, Rull Track 36 36 3.31 Action 37 36 37 36 37								-				4		
1.3.1 Trucking-Kill Tunki. 81 3.3.4 4.0 days 9 3.3.4 Achons 340000 3.3.5 Achons 35000 3.3.6 Achons 35000 3.3.7 Achons 35000 3.3.8 Achons 35000 3.3.9 Achons 35000 3.4 McLanos Completion 35000 3.4 McLanos Completion 35000 3.4 McLanos Completion Real 35000 4.4 Pakes 35000 4.5 Pakes 35000 4.6 Machanos Equipment <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								-						
comptoins Rig / Daywait \$0 334 data day \$100 334 ball bits (bale reams; file. \$100 341 Comptoins Rig / Daywait \$100 342 Comptoins Rig / Daywait \$100 344 Distributions (bale reams; file. \$100 344 Distributions (bale reams) \$100 345 Outside Reams \$100 346 Distributions (bale reams) \$100 347 Distributions (bale reams) \$100 348 Male reams) \$100 349 Distributions (bale reams) \$100 349 Distributions (bale reams) \$100 340 Distributions (bale reams) \$100 340 Distributions (bale reams) \$100 341 Dale reams) \$100<			Swivel					-				4		
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3-38 Dathors 52.500 53.000 3-39 Dolladi Tubing Uniti 53.000 50.000 3-40 Dolladi Tubing Uniti 50.000 50.000 3-41 Dolladi Tubing Uniti 50.000 50.000 3-41 Holding Tool Renial 50.000 50.000 440 False 50.000 50.000 440 False 50.000 50.000 441 Holding Informed <														
3.48 Dull bits, Undersamers, Bit. 33.000 3.40 Categreion Fluids - Mod. (Bc. 30 3.41 Ditto Rental 30 3.42 Fluing Tool Rental 30 3.43 Ditto Rental 30 3.44 Ditto Rental 30 3.45 Printy Tool Rental 30 3.46 Ditto Rental 30 3.47 Ditto Rental 30 3.48 Ditto Rental 30 3.49 Ditto Rental 30 3.40 Ditto Rental 30 3.41 Ditto Rental 30 3.42 Mainter Rental Rolpin, Rental R			@	<u>\$7,600</u>		/ day		_				1		
1-40 Calied Tubing Unit 50 1-42 Completion Fluids, Mail, Etc. 510,000 1-44 DH Tool Rental 50 1-46 Filing Tool Rental 50 1-47 Filing Tool Rental 50 1-48 Medi Testing Edupment & Lober 500,000 1-30 Presc Completion 500,000 1-31 Contingencie Completion 500,000 1-32 Presc Control Explice Nucle Explicition 500,000 1-34 Miclanous Completion 500,000 1-35 Contingencie Completion 500,000 1-36 Thing 52,06,071 1-36 Thing 52,06,001 1-37 Tota Control Explicition 50,000 1-38 Thing 530,000 1-39 Explicition 52,06,001 1-40 Packers 50 1-414 Huge 530 1-414 Explicition 545,081 1-414 Explicition 545,081 1-414 Explicition 545,081 1-414 Explicition 545,081<								_				1		
344 DITO Restal \$12,000 344 DITO Restal \$13,000 346 Fishing Tool Renal \$13,000 347 DITO Restal \$13,000 348 Tobing Tool Renal \$10 350 Press Control Equip Renal-BOP, Pac Stack, Labricator \$10 351 World Training Equipment & Labor \$10 354 Comparison Completion 10% 355 VOLUNTA NORDER COMPLETION CONSTS: \$30,000 400 ** IDC - COMPLETION CONSTS: DERILING 401 Thesing \$30,000 404 Places \$30,000 405 Biol Ioin \$30,000 406 Biol Ioin \$40,000 \$40,000 411 Deletion Flainpent \$45,738 \$40,000 412 Deletion Flainpent \$45,637 \$40,000 414 Exercial Equipment \$41,620 \$40,000 415 Alconing Flainpent \$41,610 \$41,610 416 Instrumental Equipment \$41,610 \$41,612 412 Depolation Equipment \$41,612			ers, Etc.									1		
3-44 Editional Conditional Statistical Solution Conditional Solution Conditional Solution Conditional Solution Conditional Solution Conditional Solution Conditional Solutional Conditional Conditional Solutional Conditional Solutional Conditional Conditinal Conditional Conditiona								4				1		
3-46 Fishing Total Renal \$0 3-48 Tubing Total Relaptental- BOPL, Frac Stack, Lubricator \$15000 3-20 Press Control Equip Renal- & Labor \$300000 3-34 Miscellaneous Completion \$300000 3-35 Control Equip Renal & Labor \$300000 3-36 Miscellaneous Completion \$30000 400 ** DOC-COMPLETION COSTS: DBILIANG \$00000 401 Tubing \$30000 \$30000 402 Packers \$30000 \$30000 403 Relateous Completion Equipment \$30000 \$30000 404 Projection Equipment \$30000 \$30000 410 Compression Equipment \$30000 \$30000 414 Electrical Equipment \$30000 \$300000 414 Electrical			Mud, Etc.					4				1		
3-34 Tubing Testing & Impection \$15,000 3-30 Presc Control Equip fremits BOPE, Free Stack, Lubricanor \$30,000 3-44 Miscellanous Completion \$30,000 3-54 Miscellanous Completion \$30,000 3-54 Miscellanous Completion \$30,000 3-56 Contigencies Completion \$30,000 3-60 **DOC COMPLETION COSTS: DBULINO \$25,20,441 4-00 **DOC COMPLETION ** DBULINO \$25,20,641 4-01 Tabing \$25,20,641 \$25,007 4-02 Preckers \$25,20,641 \$100 4-04 Progr \$25,007 \$25,007 \$100 4-04 Progr \$25,007 \$25,007 \$100 4-04 Progr \$28,000 \$100 \$100 4-04 Progr \$100 \$100 \$100 \$100 4-14 Environmental Europment \$16,301 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 <td></td> <td>1</td> <td></td> <td></td>												1		
3-30 Press Control Equip Rendit BOPE, Free Stack Lubricator \$30000 \$31000 3-32 Well Texing Equip ment & Lubric \$30000 \$31000 3-34 Miscillaneous Completion \$37,6671 \$30000 3-36 Contingencies Completion \$30000 \$31000 TOTAL INTANCIBLE COMPLETION COSTS: DERILING TANGRIFIC COMPLETION COSTS: DIRILING AUTOR CONTECTION 400 \$22,06,041 401 Tubing 402 \$28,000 403 \$28,000 404 Press 404 \$28,000 404 \$28,000 404 \$28,000 404 \$28,000 404 \$28,000 404 \$28,000 404 \$401 404 \$402 404 \$402 404 \$402 404 \$402 404 \$402 404 \$402 404 \$402 404 \$402 <td></td>														
3-34 Well Testing Equipment & Labor \$\$0,000 3-34 Miscillancous Completion 10% 3-34 Sizellancous Completion 10% 3-34 Miscillancous Completion \$\$2,06,077 0707.4L NEANGIBLE COMPLETION CONTS: \$\$2,206,844 400 ** IDC - COMPLETION CONTS: \$\$2,206,844 401 Tubing \$\$2,800 402 Packers \$\$8 403 #** IDC - COMPLETION ** \$\$0 404 Plays \$\$0 405 Bist Joint \$\$0 410 Compression Equipment \$\$4,629 411 Bactionic Equipment \$\$4,629 412 Deduction Equipment \$\$4,629 413 Bactionic Tanks \$\$9,969 414 Electrical Equipment \$\$10,000 415 Astionic Equipment \$\$10 416 Interior Marker \$\$110,000 417 Astionic Equipment \$\$110,000 418 Merk Marker \$\$110,000 419 Normal \$\$110,000 4141 Spraprion Equipment	3-48											1		
3.34 Miscillances Completion \$7,667 3.35 Completion \$2,26,844 TOTAL INTANGREE COMPLETION COSTS: DRILLING COMPLETION COSTS: DRILLING COMPLETION ** Support	3-50	Press Control Equip R	Rental- BOP	E, Frac St	ack, Lubr	icator					\$90,000	1		
3.55 Contingencia Completion 10% \$266,077 \$25,296,844 TOTAL TNT ANGULE COMPLETION COSTS: \$22,966,844 \$50 \$52,966,844 400 ** IDC - COMPLETION COSTS: \$22,806,844 \$50 \$60 401 Tubing \$52,966,844 \$50 \$60 \$60 401 Tubing \$50 \$52,966,844 \$50 \$60	3-52	Well Testing Equipme	ent & Labor								\$30,000	1		
TOTAL INTANGIBLE COMPLETION COSTS: \$2,926,844 SUPPLEMENT 4-00 \$2,926,844 DRILLING COMPLETION COSTS: ADD COMPLETION COSTS: ADD COMPLETION COSTS: ADD COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: ADD COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COST: COMPLETION COST: <tr< td=""><td>3-54</td><td>Miscellaneous Compl</td><td>etion</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>\$7,667</td><td>1</td><td></td><td></td></tr<>	3-54	Miscellaneous Compl	etion								\$7,667	1		
TOTAL INTANGIBLE COMPLETION COSTS: \$2,926,844 SUPPLEMENT 400 ** IDC - COMPLETION ** DRILLING COMPLETION COSTS: DRILLING COMPLETION COSTS: DRILLING COMPLETION COSTS: DRILLING COMPLETION COSTS: ORILING COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COSTS: COMPLETION COST COMPLETION COSTS: COMPLETION COST SUPPLEMENT COMPLETION COSTS: COMPLETION COST COMPLETION COST COMPLETION COST COMPLETION COST SUPPLEMENT COMPLETION COST COMPLETION COST COMPLETION WELL COST SUPPLEMENT COMPLETION WELL COST SUPPLEMENT	3-56	Contingencies Compl	etion	109	%						\$266,077	T		
Instrument DRILLING COMPLETION 400 ** IDC-COMPLETION ** \$\$\$ 401 Tubing \$\$ 402 Packers \$\$ 404 Plugs \$\$ 405 Blas Join \$\$ 406 Blas Join \$\$ 407 Packers \$\$ 408 Miscellaneous Completion Equipment \$\$ 409 Evidormental Equipment \$\$ 410 Compression Equipment \$\$ 412 Deduction Tanks \$\$ 413 Mater & Meter Run \$\$ 414 Electrical Equipment \$\$ 415 Automation Equipment \$\$ 416 Inguinent \$\$ 417 Meter & Meter Run \$\$ 418 Meter & Meter Runs \$\$ 420 Sat Water Tanks \$\$ 421 Production Tanks \$\$ 422 Production Tanks \$\$ 423 Radie Run \$\$ 434 Vater Tanks \$\$ 422 Production Tanks \$\$ 423 Production Tanks \$\$ 424 Sat Matificial Lin and Accessories \$\$ 434<				ON COS	TS.			1			\$2 926 844	Ť		
400 ** IDC · COMPLETION ** 401 Tubing 402 Packers 404 Plugs 404 Plugs 404 Plugs 405 Blat Joint 408 Miscellaneous Completion Equipment 410 Compression Equipment 4110 Compression Equipment 4121 Dehydration Equipment 4122 Dehydration Equipment 413 Electrical Equipment - Mores, Elec. 414 Electrical Equipment 415 Automation Equipment 416 Injection Transfer Plunp 417 Meter & Meter Runs 428 Production Transfer Plunp 429 Poduction Tanks 420 Salk Meter Tanks 421 Poduction Tanks 422 Poduction Tanks 423 Partine Equipment 424 Separation Equipment 425 Partine Equipment 426 Partine Equipment 427 Poduction Tanks 428 Paruping Unit 430 A	10			011 0000				<u></u>			\$2,720,044	1		
401 Tubing \$28,000 \$0 402 Packers \$0 \$0 404 Hugs \$0 \$0 406 Blast Joint \$0 \$0 408 Miscellaneous Completion Equipment \$30 \$40 410 Compression Equipment \$45,738 \$40 4112 Delyndration Equipment \$46,29 \$40 412 Delyndration Equipment \$40 \$40 414 Electrical Equipment \$50,225 \$40 414 Electrical Equipment \$50,224,612 \$40 415 Automion Equipment \$50,921 \$40 416 Injection / Transfer Pump \$51,951 \$51,951 418 Meter & Meter Run \$51,000 \$51,000 424 Separation Equipment \$51,000 \$61,951 \$61,951 424 Separation Equipment \$51,000 \$61,951 \$61,951 \$61,951 425 Production Tanks \$51,000 \$61,951 \$61,951 \$61,951 \$61,951 \$61,951 \$61,951 \$61,951 \$61,951 <td></td> <td>TANGIBLE COMP</td> <td>PLETION C</td> <td>OSTS:</td> <td></td> <td></td> <td></td> <td></td> <td>DRILLING</td> <td></td> <td>COMPLETION</td> <td>Ĩ</td> <td>SUPPL</td> <td>EMENTAL</td>		TANGIBLE COMP	PLETION C	OSTS:					DRILLING		COMPLETION	Ĩ	SUPPL	EMENTAL
401 Tubing \$28,000 402 Packers \$0 404 Higs \$0 405 Hist Joint \$0 406 Blast Joint \$0 407 Environmental Equipment \$45,738 410 Compression Equipment \$46,29 4112 Delyntation Equipment \$46,29 4121 Delyntation Equipment \$46,29 413 Automation Equipment \$30 414 Electrical Equipment - Motors, Elec. \$30 415 Automation Equipment \$30 416 Injection / Transfer Pump \$31,300 417 Automation Equipment \$35,365 418 Meter & Meter Run \$35,365 424 Separation Equipment \$36,1951 424 Separation Equipment \$35,365 425 Production Tanks \$35,365 426 Pamp \$31,000 430 Rod String \$31,000 433 Valves, Gauges and Miscellancous \$3,570 434 Yalves, Gauges and Miscellancous	4-00	** IDC - CO	MPLETIO	N **				7				T		
4404 Flugs \$0 4404 Flugs \$0 4404 Flugs \$0 4406 Hast Joint \$0 4408 Miscellaneous Completion Equipment \$45,738 4409 Environmental Equipment \$45,738 4416 Electrical Equipment \$30 4414 Electrical Equipment \$0 4414 Electrical Equipment \$0 4414 Miscel Anomation Equipment \$0 4416 Injectrical Transfer Pump \$0 4418 Meter & Meter Run \$10 4429 Salt Water Tamks \$28,865 422 Foduction Tasks \$33,535 423 Separation Equipment \$30 424 Separation Equipment \$31,0000 425 Pump \$10,000 426 Pump \$10,000 438 Nationg \$10,000 439 Valves, Gauges and Miscellaneous \$12,000 434 Valves, Gauges and Miscellaneous \$1,736,568 51,736,568 \$3,478,051 \$1,736,568 <								4			\$20,000	4		
404 Pings \$0 406 Blast Joint \$0 407 Blast Joint \$0 408 Miscellaneous Completion Equipment \$45,738 409 Environmental Equipment \$45,738 410 Compression Equipment \$45,238 411 Electrical Equipment - More, Etc. \$90 412 Dehydration Equipment \$81,89 413 Automation Equipment \$81,89 414 Electrical Equipment - More, Etc. \$91,223 414 Bedetive A teter Khan \$81,89 420 Saft Water Tanks \$35,365 421 Separation Equipment \$35,365 422 Poduction Tanks \$35,365 423 Rod String \$110,000 434 Separation Equipment \$110,000 435 Aubrig Idead \$110,000 436 Nakesenesseness \$110,000 437 Valves, Gauges and Miscellaneous \$110,000 438 Aubrig Idead \$12,000 \$110,000 439 Flowline \$12,000 \$110,000								-				-		
406 Blat Joint 50 408 Miscellancous Completion Equipment \$45,738 409 Exvironmental Equipment \$4,629 410 Compression Equipment \$59,969 411 Electrical Equipment - Motors, Etc. \$91,225 413 Automation Equipment \$0 414 Electrical Equipment - Motors, Etc. \$91,225 415 Incicion / Transfe Pump \$81,89 416 Incicion / Transfe Pump \$81,89 420 Saft Water Tambs \$353,365 422 Production Tanks \$353,365 423 Pumping Unit \$30 424 Separation Equipment \$0 425 Pump \$110,000 426 Pump \$0 427 Tubing Head \$12,000 433 Tubing Head \$12,000 434 Valves, Gauges and Miscellancous \$12,000 434 Flowline \$15,000 707AL TANGUBLE COMPLETION COSTS \$1,736,568 707AL COMPLETED WELL COST \$1,736,568 707AL COMPLETED WELL COST <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
408 Miscellaneous Completion Equipment \$45,738								-						
409 Environmental Equipment 410 Compression Equipment 4112 Devloration Equipment 412 Devloration Equipment 414 Electrical Equipment 416 Injection /Tansfor Pump 418 Meter & Meter Run 420 Salt Water Tanks 4212 Devlocation Equipment 422 Production Tanks 423 Tobing Head 424 Separation Equipment 425 Pumping Unit 426 Pumping Unit 427 Production Tanks 428 Pumping Unit 429 Sol 430 Rod String 431 Valves, Gauges and Miscellaneous 433 Artificial Lft and Accessories 434 Valves, Gauges and Miscellaneous 433 Stificonot 515,000 Stificonot 515,2007 Stificonot 707AL COMPLETED WELL COST \$1,736,568 53,478,051 \$3,478,051 434 Stificonot 55,214,619 Stificonot								-				4		
4-10 Compression Equipment \$9,969 4-12 Dehydration Equipment \$0 4-14 Electrical Equipment \$0 4-15 Automation Equipment \$0 4-16 Injection / Transfer Pump \$1 4-18 Meter & Meter Run \$1 4-20 Salt Water Tanks \$28,865 4-22 Production Tanks \$35,363 4-24 Separation Equipment \$361,951 4-26 Pump \$110,000 4-30 Rod String \$0 4-32 Tubing Head \$10,000 4-33 Valves, Gauges and Miscellaneous \$110,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-35 \$15,000 \$15,000 4-36 Flowline \$15,000 57,570 \$51,207 \$52,207 57,570 \$52,207 \$52,214,619 59 \$3,478,051 \$5,214,619				ment				_				4		
4-12 Dehydration Equipment \$0 4-14 Electrical Equipment / Motors, Etc. \$91,225 4-15 Automation Equipment \$0 4-16 Injection / Transfer Pump \$81,89 4-18 Meter & Run \$44,612 4-20 Salt Water Tanks \$28,865 4-22 Production Tanks \$35,365 4-24 Separation Equipment \$110,000 4-25 Pump \$110,000 4-26 Pump \$110,000 4-27 Production Tanks \$0 4-28 Pumping Unit \$0 4-30 Rod String \$0 4-31 Valves, Gauges and Miscellaneous \$110,000 4-33 Artificial Lift and Accessories \$152,000 4-40 Flowline \$152,000 707AL DRILLING COST \$17,736,568 \$3,478,051 707AL COMPLETED WELL COST \$1,736,568 \$3,478,051 707AL COMPLETED WELL COST \$5,214,619 \$1								_				4		
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4-15 Automation Equipment \$0 4-16 Injection / Transfer Pump \$8,189 4-18 Metre & Metre Run \$\$44,612 4-20 Salt Water Tanks \$\$28,865 4-22 Production Tanks \$\$33,365 4-24 Separation Equipment \$\$61,951 4-25 Pump \$\$110,000 4-26 Pump \$\$10,000 4-28 Metrig Metad \$\$110,000 4-30 Rod String \$\$0 4-32 Tubing Head \$\$12,000 4-33 Artificial Lift and Accessories \$\$15,000 4-40 Flowwine \$\$15,000 TOTAL COMPLETION COSTS: \$\$11,736,568 \$\$3,478,051 TOTAL COMPLETED WELL COST \$\$1,736,568 \$\$3,478,051 Approved by:		Dehydration Equipme	ent									1		
4-16 Injection / Transfer Pump 4-18 Meter & Meter Run 4-20 Salt Water Tanks 4-20 Salt Water Tanks 4-20 Salt Water Tanks 4-20 Salt Water Tanks 4-20 Production Tanks 4-21 Separation Equipment 4-22 Pumping Unit 4-23 Pumping Unit 4-24 Separation Equipment 4-25 Pumping Unit 4-30 Rod String 4-31 Valves, Gauges and Miscellaneous 4-32 Tubing Head 4-33 Valves, Gauges and Miscellaneous 4-34 Valves, Gauges and Miscellaneous 4-40 Flowline 57.570 \$11,000 707AL TANGIBLE COMPLETION COSTN: \$15,000 707AL COMPLETED WELL COST \$1,736,568 707AL COMPLETED WELL COST \$3,478,051 707AL COMPLETED WELL COST \$5,214,619				tc.								1		
4-18 Meter & Meter Run \$44,612 4-20 Salt Water Tanks \$28,865 4-21 Production Tanks \$35,365 4-22 Production Tanks \$35,365 4-24 Separation Equipment \$61,951 4-26 Pump \$110,000 4-27 Sol Unit \$0 4-28 Pumping Unit \$0 4-30 Rod String \$10,000 4-31 Tubing Head \$12,000 4-32 Tubing Head \$12,000 4-33 Artificial Lift and Accessories \$15,000 4-34 Valves, Gauges and Miscellaneous \$44,095 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$57,570 70TAL TANGIBLE COMPLETION COSTS: \$55,207 70TAL COMPLETION COST \$3,478,051 70TAL COMPLETED WELL COST \$3,478,051 Approved by:														
4-20 Salt Water Tanks \$28,865 4-22 Production Tanks \$353,365 4-24 Separation Equipment \$61,951 4-26 Pump \$10,000 4-28 Pumping Unit \$0 4-30 Rod String \$10,000 4-32 Tubing Head \$10,000 4-33 Rod String \$10,000 4-34 Valves, Gauges and Miscellaneous \$12,000 4-35 Artificial Lift and Accessories \$15,000 4-40 Flowline \$15,000 TOTAL TANGIBLE COMPLETION COSTS: TOTAL COMPLETION COSTS: TOTAL COMPLETED WELL COST Approved by:			ump					4				1		
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4-24 Separation Equipment \$61,951	4-20											1		
4-26 Pump \$110,000 4-28 Pumping Unit \$0 4-30 Rod String \$0 4-31 Valves, Gauges and Miscellaneous \$12,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-34 Valves, Gauges and Miscellaneous \$15,000 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$7,570 70TAL TANGIBLE COMPLETION COSTS: \$\$1,736,568 \$\$3,478,051 70TAL COMPLETED WELL COST \$\$1,736,568 \$\$3,478,051 Xpproved by:	4-22										\$35,365	1		
4-28 Pumping Unit \$0 \$0 4-30 Rod String \$0 \$0 4-32 Tubing Head \$12,000 \$12,000 4-34 Valves, Gauges and Miscellaneous \$18,005 \$15,000 4-38 Artificial Lift and Accessories \$15,000 \$15,000 4-40 Flowline \$57,570 \$55,270 TOTAL TANGIBLE COMPLETION COSTS: TOTAL COMPLETION COSTS: TOTAL COMPLETION COST \$1,736,568 \$3,478,051 TOTAL COMPLETED WELL COST Approved by:		Separation Equipment	t									1		
4-30 Rod String \$0 \$1 4-32 Tubing Head \$12,000 \$12,000 4-34 Valves, Gauges and Miscellaneous \$15,000 \$1 4-38 Artificial Lift and Accessories \$15,000 \$1 4-40 Flowline \$15,000 \$1 TOTAL TANGIBLE COMPLETION COSTS: \$55,1,207 \$1 TOTAL COMPLETION COST \$1,736,568 \$3,478,051 \$1 TOTAL COMPLETED WELL COST \$55,214,619 \$55,214,619 \$1	4-26	Pump										1		
4-30 Rod String \$0 4-32 Tubing Head \$12,000 4-34 Valves, Gauges and Miscellaneous \$84,095 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$51,500 TOTAL COMPLETION COSTS: S 1,736,568 S 3,478,051 COTAL COMPLETED WELL COST S 5,214,619	4-28	Pumping Unit												
4-32 Tubing Head \$12,000 4-34 Valves, Gauges and Miscellaneous \$48,095 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$57,570 TOTAL TANGIBLE COMPLETION COSTS: \$551,207 OTAL DRILLING COST \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:	4-30										\$0	T		
4-34 Valves, Gauges and Miscellaneous \$48,095 4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: TOTAL COMPLETION COSTS: 0 \$1,736,568 TOTAL COMPLETED WELL COST S3,478,051 TOTAL COMPLETED WELL COST S5,214,619	4-32										\$12,000	T		
4-38 Artificial Lift and Accessories \$15,000 4-40 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: OTAL DRILLING COST \$1,736,568 \$1,736,568 \$3,478,051 TOTAL COMPLETED WELL COST \$\$5,214,619			fiscellaneou	IS				1				1		
4-40 Flowline \$7,570 TOTAL TANGIBLE COMPLETION COSTS: OTAL DRILLING COST \$551,207 OTAL COMPLETION COST \$1,736,568 TOTAL COMPLETED WELL COST \$3,478,051 Approved by:								1				1		
TOTAL TANGIBLE COMPLETION COSTS: \$551,207 OTAL DRILLING COST \$1,736,568 OTAL COMPLETION COST \$3,478,051 FOTAL COMPLETED WELL COST \$5,214,619								1						
OTAL DRILLING COST \$1,736,568 OTAL COMPLETION COST \$3,478,051 FOTAL COMPLETED WELL COST \$5,214,619 Approved by:			MPI ETIA	NCOST	ç.			1		i		Ŧ		
S3,478,051 FOTAL COMPLETED WELL COST \$5,214,619								<mark>-</mark> -			<i>\$331,207</i>	1		
FOTAL COMPLETED WELL COST \$5,214,619 Approved by:									\$1,736	,568		_		
Approved by:	OTAL COM	APLETION COST									\$3,478,051	1		
Approved by:					_			-				-		
	FOTAL	COMPLETED	WELL	COST							\$5,214,619			
	Approved	by:												
								-						
Company:	Company:													

Signed this _____ Day of _____ 20 ____

Released to Imaging: 11/10/2022 5:06:36 PM

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OPERATOR	D. Landellau Franzi I.P.								
LEASE:	R: Longfellow Energy, LP Marley State 31CD		WELL NO.	004H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/2022
LEASE: LOCATION			Section 36-17S-27E	004n	FIELD:	PROPOSED TD:	AFE#:	ft (MD)	4/8/2022
			Section 31-17S-28E			VERTICAL	1	RE-ENTRY	
LOCATION OBJECTIV		stimated	@	3900'	ft TVD	HORIZONTAL	Х	WORKOVER	
REMARKS:		stimated	@	9700'	ft MD	HUKIZUNIAL	REVIEWED		
REMARKS:	Eloco Hills Project - Eddy County, NM E	sumateu	w.	9700	II MD		REVIEWED	D1:	
	INTANGIBLE DRILLING COSTS			DRILLING	T	COMPLETION	-	SUPPLEM.	ENTAL.
1-00	** IDC - DRILLING **				7	Communitie	-		
1-00				\$63,180	4				
1-02	Rig Diesel Rig Rentals			\$25,000	4				
1-04	Location / Construction			\$105,000					
1-04	Drilling Insurance			\$5,000	+				
1-06	Permits			\$7,500	-				
1-00	Title Opinion / Regulatory Fees			\$40,000	4				
1-08	Survey			\$7,500	4				
1-10	Right-of-Way			\$15,000	1		-		
1-12	Pit Lining / Fences			\$0	1		-1		
1-14	Trucking			\$7,500			-1		
1-16	Air / Gas Services			\$0			-		
1-18	Supervision			\$80,000	1		1		
1-19	Drilling Overhead			\$25,000	1		7		
1-20	Rig Mobilization / Demobilization			\$85,000	1		7		
1-22	Bits / Underreamers, Etc.			\$60,000	1		7		
1-23	Directional Tools & Supervision			\$130,000	Ι				
1-24	Hammer Rental / Supervision			\$0	7		1		
1-25	Cement Plug / Squeeze			\$0]				
1-26	Drilling Mud & Transportation			\$29,500	Ι		1		
1-27	Mud Diesel			\$0	Ι		1		
1-28	Mud Logging & Geo-steering			\$15,000	Ι		1		
1-29	Mud Remediation			\$0	Ι		1		
1-30	Drill String & BHA Rental			\$20,000	Ι		1		
1-31	Coring			\$0	1		1		
1-32	Drill Stem Tests			\$0	1				
	Contract Daywork Drilling			\$0					
1-34	12.0 days @ \$17,750 / day			\$213,000	l				
1-36	Casing Crews, PU & LD			\$20,000	l				
1-38	Fishing Tool Rentals			\$0	l				
1-40	Rathole / Mousehole / Conductor			\$25,000	1				
1-42	Water - Fresh / Brine			\$50,000]				
1-43	Waste Water / Mud Disposal			\$29,000]				
1-44	Well Control Equipment			\$0					
1-46	Trash Trailer			\$2,000					
1-48	Surface Pipe Cementing			\$20,000					
1-50	Intermediate Pipe Cementing			\$0					
1-51	Contractor Ser. (Roustabout, Testor, etc.)			\$30,000					
1-52	Production Casing Cementing			\$36,500					
1-56	Open-Hole Logging OH Logs & Core processing			\$0					
1-58	Drilling Contingencies	10%		\$102,768					
1-60	Surface Damages			\$3,750					
1-62	Rotating Head & Expendables			\$8,500					
1-64	Miscellaneous Drilling			\$60,000	1				
1-66	Welding During Drilling			\$5,500	1		4		
1-68	Miscellaneous Equipment Rentals			\$35,000	4		_		
1-70	Centralizers & Float Equipment			\$33,000	1				
1	TOTAL INTANGIBLE DRILLING COSTS:			<i>\$1,394,198</i>					
					-		_		
	TANGIBLE DRILLING COSTS:			DRILLING	<u> </u>	COMPLETION		SUPPLEM.	ENTAL
2-00	** IDC - DRILLING **				1		7		
TUBULAR	GOODS (Surf., Inter., Prod., Tbg)				Ī		7		
1020Link	Size Grade Weight Thread Length								
2-02	9-5/8" J-55 36.00 LT&C 1300 \$40.80			\$51,740	1		-1		
2-02	7" L-80 32.00 BT&C 4300 \$33.49			\$140,180			-1		
2-04	5-1/2" L-80 20.00 BT&C 5500 \$25.46			\$136,950	1		-1		
	- SURFACE EQUIPMENT			\$0	1		-1		
2-10	Casinghead(s)			\$13,500	1		-1		
2-12	Liner Hanger & Packer			\$0			-1		
2-14	Open Hole Packers and Sleeves			\$0			1		
2-16	Miscellaneous			\$0			1		
2-18	Flowline & Valves			\$0			1		
	TOTAL TANGIBLE DRILLING COSTS:			\$342,370	T		7		
	TO THE THEOREM PRESERVE COULD.			<i>\$342,370</i>	1				
				DRILLING	1	COMPLETION		SUPPLEM	ENTAL
	INTANGIBLE COMPLETION COSTS				<mark>-</mark>	CONTLETION	<mark>-</mark>	JULLEM	SHILL
2.02	INTANGIBLE COMPLETION COSTS:				1			L	
3-00	** IDC - COMPLETION **				=				
3-02	** IDC - COMPLETION ** Acidizing]	\$			
3-02 3-04	** IDC - COMPLETION ** Acidizing Fracturing]	\$1,450,00	D		
3-02 3-04 3-06	** IDC - COMPLETION ** Acidizing Fracturing Perforating					\$1,450,00 \$130,00	0 0		
3-02 3-04 3-06 3-08	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging					\$1,450,000 \$130,000 \$130,000	0 0 0		
3-02 3-04 3-06 3-08 3-10	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters					\$1,450,000 \$130,000 \$ \$ \$	0 0 0 0		
3-02 3-04 3-06 3-08 3-10 3-12	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services					\$1,450,000 \$130,000 \$ \$ \$ \$ \$	0 0 0 3		
3-02 3-04 3-06 3-08 3-10 3-12 3-14	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals					\$1,450,00 \$130,00 \$ \$ \$ \$28,33 \$32,50	D 0 0 3 0		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals-Potties, Lights, Trash Trailers					\$1,450,00 \$130,00 \$ \$ \$ \$28,33 \$32,50 \$5,00	0 0 0 0 3 0 0		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals-Potties, Lights, Trash Trailers Frac Tank Rentals					\$1,450,00 \$130,00 \$ \$ \$28,33 \$32,50 \$5,00 \$10,00	0 0 0 0 3 3 0 0 0		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals- Potties, Lights, Trash Trailers Frac Tank Rentals Restore Location					\$1,450,00 \$130,00 \$ \$ \$28,33 \$32,50 \$32,50 \$30,00 \$10,00 \$33,00	D D D D D D D D D D D D D D D		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18 3-20	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals- Potties, Lights, Trash Trailers Fract Tank Rentals Restore Location Restore Location Right - Of - Way					\$1,450,00 \$130,00 \$ \$ \$28,33 \$32,50 \$5,00 \$10,00 \$10,00 \$3,00 \$3,00 \$3,00	D D D D D D D D D D D D D D D D D D D		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18 3-20 3-22	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals - Potties, Lights, Trash Trailers Frac Tank Rentals Restore Location Right - Of - Way Right - Of - Way Roustabout Crews					\$1,450,000 \$130,000 \$ \$28,33 \$22,50 \$32,500 \$10,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$33,000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,0000 \$35,00000 \$35,00000 \$35,00000 \$35,00000 \$35,0000000 \$35,000000000000000000000000000000000000	D D D D D D D D D D D D D D D D D D D		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18 3-20 3-22 3-23	** IDC - COMPLETION ** Acidizing Fracturing Perforating Co2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals-Potties, Lights, Trash Trailers Frac Tank Rentals Restore Location Right - Of - Way Roustabout Crews Cement Plugs/Bridge Plugs					\$1,450,00 \$130,00 \$ \$ \$28,33 \$22,50 \$5,00 \$10,00 \$3,00 \$3,00 \$3,00 \$22,00 \$22,00	0 0 0 0 3 0		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18 3-20 3-22 3-23 3-24	** IDC - COMPLETION ** Acidizing Fracturing Perforating Cased Hole Logging CO2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals- Pottes, Lights, Trash Trailers Frac Tank Rentals Restore Location Right - Of - Way Routsabout Crews Cement Plugs/Bridge Plugs Supervision					\$1,450,00 \$130,00 \$28,33 \$28,33 \$32,50 \$32,50 \$10,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$3,00 \$1,000\$1,000\$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
3-02 3-04 3-06 3-08 3-10 3-12 3-14 3-15 3-16 3-18 3-20 3-22 3-23	** IDC - COMPLETION ** Acidizing Fracturing Perforating Co2 / Boosters Electrician / Electrical Services Equipment Rentals Rentals-Potties, Lights, Trash Trailers Frac Tank Rentals Restore Location Right - Of - Way Roustabout Crews Cement Plugs/Bridge Plugs					\$1,450,00 \$130,00 \$ \$ \$28,33 \$22,50 \$5,00 \$10,00 \$3,00 \$3,00 \$3,00 \$22,00 \$22,00	0 0		



OPERATOR	D. Longfaller	w Energy, L	D				-						
LEASE:	K: Longfellov Marley Sta		r				WELL NO.	004H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/2022
LEASE: LOCATION		785'	FSL	464'	FEL		Section 36-17		FIELD:	PROPOSED TD:	APE #:	ft (MD)	4/0/2022
LOCATION		822'	FSL	20'	FEL		Section 31-17			VERTICAL		RE-ENTR	Y
OBJECTIV			TOL	20	TEE	Estimated	@	3900'	ft TVD	HORIZONTAL	X	WORKOV	
REMARKS:		Project - E	ddy Cour	tv. NM		Estimated		9700'	ft MD		REVIEWI		
				.,									
3-27	Water Transfer- 10", P	oly, Fill Pit					1 1			\$170,000			
3-28	Water Hauling - Fresh						1			\$304,800)		
3-29	SW Disposal- Hauling	, Paid Dispo	osal, Poly							\$10,000)		
3-30	Slickline Work									\$0)		
3-31	Technical Labor									\$27,400)		
3-32	Reverse Unit / Power S	Swivel								\$25,000)		
3-33	Trucking- Kill Truck									\$0			
	Completion Rig / Day									\$0			
3-34	<u>4.0</u> days	@	<u>\$7,600</u>		/ day		4			\$40,000			
3-36	Anchors						_			\$2,500			
3-38	Drill bits, Unde-reame	rs, Etc.					4			\$3,000			
3-40	Coiled Tubing Unit						4			\$0			
3-42	Completion Fluids - M	Iud, Etc.					4			\$120,000		- I	
3-44	DH Tool Rental						4			\$0			
3-46	Fishing Tool Rental						4			\$15.000			
3-48 3-50	Tubing Testing & Insp Press Control Equip R		E. Ema Cr	ante Lubr			4			\$15,000			
				ack, Lubr	cator		4			\$90,000			
3-52 3-54	Well Testing Equipme Miscellaneous Comple						4			\$30,000			
3-54	Contingencies Comple		109	6			1			\$266,077			
10	DTAL INTANGIBLE C	OMPLEII	ON COS	15:			J I			\$2,926,844			
	TANGIBLE COMP.							DRILLING		COMPLETION		SUPPL	EMENTAL
4-00	** IDC - COM	APLETION	N **] [
4-01	Tubing]			\$28,000)		
4-02	Packers									\$0			
4-04	Plugs									\$0			
4-06	Blast Joint						4			\$0			
4-08	Miscellaneous Comple		ment							\$45,738			
4-09	Environmental Equipn									\$4,629			
4-10	Compression Equipme						_			\$9,969			
4-12	Dehydration Equipmen									\$0			
4-14	Electrical Equipment -		tc.							\$91,225			
4-15 4-16	Automation Equipmen						-			\$0.190			
4-16	Injection / Transfer Pu	шр					-			\$8,189			
4-18	Meter & Meter Run Salt Water Tanks						4			\$28.865			
4-20	Production Tanks						4			\$35,365			
4-22	Separation Equipment									\$61,95			
4-24	Pump						1 1			\$110,000			
4-28	Pumping Unit						1			\$110,000			
4-30	Rod String						1			\$0			
4-32	Tubing Head						1 1			\$12,000			
4-34	Valves, Gauges and M	iscellaneou	IS				1 1			\$48,095			
4-38	Artificial Lift and Acce	essories]			\$15,000)		
4-40	Flowline] [\$7,570			
T	OTAL TANGIBLE CO	MPLETIO	N COST.	S:] [\$551,207			
TOTAL DRI	ILLING COST						ן ו ך	\$1,736	,568		_		
	MPLETION COST						i '	,/00	<u> </u>	\$3,478,051	Т		
		WEEZ	COST	-			- 1				– T		
IUIAL	COMPLETED	WELL	COST				J			\$5,214,619			
Approved	by:						-						
Company:							_						
Title:													
							-						

Signed this _____ Day of _____

20_____



OPER	De La collection De La D								
OPERATO LEASE:	R: Longfellow Energy, LP Marley State 31CD		WELL NO.	005H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/2022
LEASE: LOCATION			WELL NO. Section 36-17S-27E		TIELD:	PROPOSED TD:	AFL#:	ft (MD)	+/0/2022
LOCATION			Section 30-17S-27E Section 31-17S-28E			VERTICAL		RE-ENTRY	
OBJECTIV		Estimated	@	3500'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS		Estimated	@	9200'	ft MD	HUKIZOMIAL	REVIEWE		
REMARKS	Loco milis Hojeet - Eddy County, NW	Estimated	e	7200	it ind		REVIEWE	JDI .	
	INTANGIBLE DRILLING COSTS			DRILLING		COMPLETION		SUPPLEM	IENTAL
1-00	** IDC - DRILLING **		i —		Ħ		=		
1-00	Rig Diesel		1	\$63,18	0				
1-02	Rig Rentals			\$25,00					
1-04	Location / Construction			\$105,00					
1-05	Drilling Insurance			\$5,00					
1-06	Permits		1 -	\$7,50			-		
1-07	Title Opinion / Regulatory Fees		1 -	\$40,00			-		
1-08	Survey			\$7,50			-		
1-10	Right-of-Way			\$15,00					
1-12	Pit Lining / Fences			\$					
1-14	Trucking		1 -	\$7,50	0		-		
1-16	Air / Gas Services			\$	0				
1-18	Supervision			\$80,00	0				
1-19	Drilling Overhead			\$25,00					
1-20	Rig Mobilization / Demobilization			\$85,00					
1-22	Bits / Underreamers, Etc.			\$60,00					
1-23	Directional Tools & Supervision			\$130,00	0				
1-24	Hammer Rental / Supervision			\$					
1-25	Cement Plug / Squeeze			\$			_		
1-26	Drilling Mud & Transportation			\$29,50			_		
1-27	Mud Diesel			\$			_		
1-28	Mud Logging & Geo-steering		🗖	\$15,00			_		
1-29	Mud Remediation		↓	\$			4		
1-30	Drill String & BHA Rental		┨	\$20,00			4		
1-31	Coring		↓	\$			_		
1-32	Drill Stem Tests		↓	\$			_		
	Contract Daywork Drilling			\$					
1-34	12.0 days @ \$17,750 / day			\$213,00					
1-36	Casing Crews, PU & LD			\$20,00					
1-38	Fishing Tool Rentals			\$			_		
1-40	Rathole / Mousehole / Conductor			\$25,00					
1-42	Water - Fresh / Brine			\$50,00					
1-43	Waste Water / Mud Disposal			\$29,00					
1-44	Well Control Equipment			\$					
1-46	Trash Trailer			\$2,00			_		
1-48	Surface Pipe Cementing		┨ ┣━	\$20,00			4		
1-50	Intermediate Pipe Cementing		┨ ┣━	\$			4		
1-51	Contractor Ser. (Roustabout, Testor, etc.)		┨ ┣━	\$30,00			4		
1-52	Production Casing Cementing			\$36,50			_		
1-56	Open-Hole Logging OH Logs & Core processing		┨ ┣━	\$			4		
1-58	Drilling Contingencies	10%	┨ ┣━━	\$102,76			_		
1-60	Surface Damages		┨ ┣━━	\$3,75			_		
1-62	Rotating Head & Expendables		-	\$8,50			_		
1-64	Miscellaneous Drilling		-	\$60,00			_		
1-66	Welding During Drilling Miscellaneous Equipment Rentals		┥ ┝━━	\$5,50 \$35,00					
1-68 1-70	Centralizers & Float Equipment		┨ ┣━━	\$33,00					
			{ <u> </u>		=		4	-	
	TOTAL INTANGIBLE DRILLING COSTS:			\$1,394,19	3				
	TANGINE DRULING COSTS		1	DBH LING	-	COMPLETION		CUDDI DI	
	TANGIBLE DRILLING COSTS:		¦	DRILLING	<mark>-</mark>	COMPLETION	<mark>-</mark>	SUPPLEN	IENIAL
2-00	** IDC - DRILLING **		<u> </u>		_				
TUBULAR	GOODS (Surf., Inter., Prod., Tbg)				Ĭ		T		
	Size Grade Weight Thread Length								
2-02	9-5/8" J-55 36.00 LT&C 1300 \$40.80			\$51,74					
2-04	7" L-80 32.00 BT&C 4300 \$33.49			\$140,18			_		
2-06	5-1/2" L-80 20.00 BT&C 5500 \$25.46			\$136,95			_		
	- SURFACE EQUIPMENT			\$			_		
2-10	Casinghead(s)		↓ └──	\$13,50			4		
2-12	Liner Hanger & Packer		┨	\$			4		
2-14	Open Hole Packers and Sleeves		4 L	\$			4		
2-16	Miscellaneous		┨	\$			4		
2-18	Flowline & Valves			\$	U		<u> </u>		
	TOTAL TANGIBLE DRILLING COSTS:			\$342,37)				
]		7		7		
	INTANGIBLE COMPLETION COSTS:		1 -	DRILLING		COMPLETION		SUPPLEM	IENTAL
3-00	** IDC - COMPLETION **		i —		7		=i		
			i		4				
3-02	Acidizing		┥ ┝──				<u>50</u>		
3-04	Fracturing Perforating		┥ ┝━━			\$1,450,00			
3-06	Perforating Cread Hole Logging		┥ ┝──						
3-08	Cased Hole Logging		┥ ┝──				<u>60</u> 60		
3-10	CO2 / Boosters		╡ ┣━━		-				
3-12	Electrician / Electrical Services		┥ ┣━━		-	\$28,33			
3-14	Equipment Rentals		┥ ┝──			\$32,50			
3-15	Rentals- Potties, Lights, Trash Trailers		┥ ┝──			\$5,00			
3-16	Frac Tank Rentals Pactors Location		┨ ┣━━			\$10,00			
3-18	Restore Location		┥ ┝──						
3-20 3-22	Right - Of - Way Roustabout Crews		┥ ┝━━			\$83			
3-22 3-23	Cement Plugs/Bridge Plugs		┥ ┝━━			\$45,00			
3-23 3-24	Supervision		┨ ┣━━		-	\$22,00			
3-24 3-25	Completion Overhead		┨ ┣━━		-	\$42,50			
3-23			₁ ⊢			\$10,50			
3-26	Trucking								

1



OPERATOR	R: Long	ellow Energy,	LP										
LEASE:	Marle	y State 31CD					WELL NO.	005H	FIELD:	Loco Hills	AFE #:	DATE:	4/8/2022
LOCATION			FSL	464'	FEL		Section 36-175			PROPOSED TD:		ft (MD)	
LOCATION	l: BH	L 341'	FSL	20'	FEL		Section 31-175	S-28E		VERTICAL		RE-ENTR	Y
OBJECTIV		Formation				Estimated	@	3500'	ft TVD	HORIZONTAL	Х	WORKOV	ER
REMARKS:	: Loco	Hills Project -	Eddy Cou	nty, NM		Estimated	@	9200'	ft MD		REVIEW	ED BY:	
3-27	Water Transfer- 1		'it							\$170,00			
3-28	Water Hauling - H]			\$304,80	0		
3-29	SW Disposal- Ha	ıling, Paid Dis	posal, Poly	/] [\$10,00	0		
3-30	Slickline Work] [\$	0		
3-31	Technical Labor						1 [\$27,40	0		
3-32	Reverse Unit / Po	wer Swivel					1 [\$25,00	0		
3-33	Trucking- Kill Tr	ıck] [\$	0		
	Completion Rig /	Daywork] [\$	0		
3-34	4.0 days	@	\$7,600		/ day					\$40,00	0		
3-36	Anchors						1 [\$2,50	0		
3-38	Drill bits, Unde-r	amers, Etc.					1 [\$3,00	0		
3-40	Coiled Tubing U	iit					1 [\$	0		
3-42	Completion Fluid						j ľ			\$120,00	0		
3-44	DH Tool Rental						ז ר			\$	-		
3-46	Fishing Tool Ren	al					1 1			\$			
3-48	Tubing Testing &						1 1			\$15,00			
3-50	Press Control Equ		PE, Frac S	tack, Lubr	icator		1 1			\$90,00			
3-52	Well Testing Equ						1 1			\$30,00			
3-54	Miscellaneous Co						1 1			\$7,66	7		
3-56	Contingencies Co		10	%			1 1			\$266,07	7		
ТО	TAL INTANGIB		TON COS	TS			i ř		;	\$2,926,844			
											_		
	TANGIBLE CO							DRILLING		COMPLETION		SUPPL	EMENTAL
4-00	** IDC -	COMPLETIC	DN **				1 [
4-01	Tubing						î î			\$28,00	0		
4-02	Packers						1 1			\$	-		
4-04	Plugs						1 1			\$			
4-06	Blast Joint						1 1			\$			
4-08	Miscellaneous Co	mpletion Equi	pment				1 1			\$45,73			
4-09	Environmental E	uipment	pinent				1 1			\$4,62			
4-10	Compression Equ						1 1			\$9,96			
4-12	Dehydration Equ						1 1			\$			
4-14	Electrical Equipn		Etc				1 1			\$91,22			
4-15	Automation Equi		Lite.				1 1			\$			
4-16	Injection / Transf						1 1			\$8,18			
4-18	Meter & Meter R						1 F			\$44,61			
4-20	Salt Water Tanks						1 1			\$28,86			
4-20	Production Tanks						1 1			\$35,36			
4-22	Separation Equip	nent					1 1			\$61,95			
4-24	Pump	nent					1 1			\$110,00			
4-20	Pumping Unit						1 1			\$110,00			
4-28	Rod String						1 1			\$			
4-30	Tubing Head						4 1			\$12,00			
4-32	Valves, Gauges a	d Miscellanor	110				1 1			\$48.09			
4-34	Artificial Lift and		ius.				4 1			\$15,00			
4-38	Flowline	ACCESSORES					1 F			\$7,57			
		COMPLET	ON COST				4 -		━╡				
	OTAL TANGIBL	COMPLETI	ON COST	5:			j L			\$551,207	<u></u>		
	LLING COST] [\$1,736,	568				
TOTAL CON	MPLETION COST]			\$3,478,051			
TOTAL	COMPLET						-			05.014 (10	- T		
IUTAL	COMPLET	ED WELL	LCOST	l			J			\$5,214,619			
Approved	hv:												
Approved							-						
Common													
Company:							-						

Title:

Signed this _____ Day of ____

20 _____



SHARON T. SHAHEEN Direct: (505) 986-2678 Email: <u>sshaheen@montand.com</u> www.montand.com

September 16, 2022

Via U.S. Certified Mail, return receipt requested

TO: ALL INTEREST OWNERS ON ATTACHED LIST

Re: Case No. 23081 – Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico – Marley State Com 31 CD 001H, 002H, 003H, 004H and 005H

Dear Interest Owner:

This will advise that pursuant to NMSA 1978, § 70-2-17, Longfellow Energy, LP ("Longfellow") has filed an Application with the New Mexico Oil Conservation Division for orders regarding the proposed wells described below. You are receiving this notice because you may have an interest in one or more of these wells.

Case No. 23081. Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the Division pooling all uncommitted interests in the Yeso formation (Red Lake; Glorieta-Yeso, Northeast [96836]) in a standard 320-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the S/2 of Section 31, Township 17 South, Range 28 East in Eddy County, New Mexico. The HSU is to be dedicated to the following one-mile wells: (1) Marley State Com 31CD 001H well, to be horizontally drilled from an approximate surface hole location 2098' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 2266' FSL and 20' FEL of Section 31, T17S-R28E; (2) Marley State Com 31CD 002H well, to be horizontally drilled from an approximate surface hole location 2078' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1786' FSL and 20' FEL of Section 31, T17S-R28E; (3) Marley State Com 31CD 003H well, to be horizontally drilled from an approximate surface hole location 805' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1304' FSL and 20' FEL of Section 31, T17S-R28E; (4) Marley State Com 31CD 004H well, to be horizontally drilled from an approximate surface hole location 785' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 822' FSL and 20' FEL of Section 31, T17S-R28E; and (5) Marley State Com 31CD 005H well, to be horizontally drilled from an approximate

REPLY TO: 325 Paseo de Peralta Santa Fe, New Mexico 87501 Telephone (505) 982-3873 • Fax (505) 982-4289

Post Office Box 2307 Santa Fe, New Mexico 87504-2307 Released to Imaging: 11/10/2022 5:06:36 PM Exhibit A-8 Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022 All Interest Owners Sept. 16, 2022 Page 2

surface hole location 765' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 341' FSL and 20' FEL of Section 31, T17S-R28E.

The Marley State Com 31CD 003H well is a proximity well located within the S/2 S/2 of Section 31, T17S-R28E. Its completed interval will be less than 330' from the N/2 S/2 of Section 31, T17S-R28E. Longfellow therefore proposes to include the N/2 S/2 of Section 31, T17S-R28E as proximity tracts under 19.15.16.15(B)(1)(b) NMAC. With the proximity tracts included, the first and last take points and completed intervals meet the setback requirements set forth in the statewide rules for horizontal oil wells. Also to be considered will be the cost of drilling and completing the wells and the allocation of the risk involved in drilling and completing the wells. The wells and lands are located approximately 12 miles southeast of Artesia City, New Mexico.

The attached application will be set for hearing before a Division Examiner at the New Mexico Oil Conservation Division. During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on **October 6, 2022**, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: http://www.emnrd.state.nm.us/OCD/hearings.html. You are not required to attend this hearing, but as an owner of an interest that may be affected, you may appear and present testimony.

Failure to appear at that time and become a party of record will preclude you from challenging this application at a later time. If you intend to present testimony or evidence at the hearing, you must enter your appearance by **September 28, 2022**, and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement by **September 29, 2022**, in accordance with Division Rule 19.15.4.13 NMAC.

Please feel free to contact me if you have any questions about these Applications.

Very truly yours,

<u>/s/ Sharon T. Shaheen</u> Sharon T. Shaheen

STS/rsg Enclosures

<u>EXHIBIT A</u>

INTEREST OWNERS

Working Interest Party(ies):

ZPZ Delaware I, LLC 2000 Post Oak Blvd., Suite 100 Houston, TX 77056

SEP Permian, LLC 9655 Katy Freeway, Suite 500 Houston, TX 77024

WPX Energy Permian, LLC c/o Devon Energy – Regulatory 333 West Sheridan Ave., Oklahoma City, OK 73102

Marathon Oil Co. 5555 San Felipe St. Houston, TX 77056-2723

Carla Leet-Assaf 3401 N. Bay Breeze Ln. Fort Worth, TX 76179-3849

Frederika A. Leet 43 Lakeview Terrace, Apt PH Sandy Hook, CT 06482

Carl F. Hatch 101 S. Front St., #9 Rio Vista, CA 94571

Overriding Royalty Interest Owners:

Nestegg Energy Corporation 2308 Sierra Vista Road Artesia, New Mexico 88210

EOG Resources, Inc. 5509 Champions Dr. Midland, TX 79702 John & Theresa Hillman Family Properties, LP Glenn F. Leet, Jr., aka Glenn F. River, Jr. 43 Lakeview Terrace Sandy Hook, CT 06482

Frank Hatch 9111 Spendido Way Elk Grove, CA 95758-5836

Main Street Holding Company c/o Daniel J. Haake 11413 W. 104th St. Overland Park, KS 66214

The Regents of the University of New Mexico, Carl A. Hatch Professorship of Law & Public Administration Fund MSC 06 3595 1 University of New Mexico Albuquerque, NM 87131-0001

Chisos, Ltd. 1331 Lamar St., Suite 1077 Houston, TX 77010

Maverick Permian, LLC 1111 Bagby St., Ste. 1600 Houston, TX 77002

ConocoPhillips Company 600 W. Illinois Ave. Midland, Texas 79701

Jeannie Hatch Hutchison 3500 Enfield Rd., Apt. E Austin, Texas 78703 Henry Shaw and Bobbie Ann Shaw P.O. Box 50187 Midland, TX 79710

Manix Royalty, Ltd. P.O. Box 2818 Midland, Texas 79702

Black Shale Minerals, LLC 5006 State Hwy 31 North Longview, TX 75603

Occidental Permian Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046

OXY USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046 1415 Sparks St. Midland, Texas 79701

Colaro Corporation 5625 Daniels Avenue Dallas, Texas 75206

ELSR, LP, a Texas Limited Partnership, BengalJones Group LLC, General Partner 8080 North Central Expressway, Suite 1420 Dallas, Texas 75206

Rock Energy Corporation, an
 Oklahoma corporation
 210 Park Avenue No. 2750
 Oklahoma City, OK 73102

Sherman Nelson (unlocatable)

Additional Interested Party(ies):

State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

Tab 5.

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

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

Case No. 23081

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 direct testimony, which is based on my personal knowledge.

2. I am a petroleum geologist employed as the Geologist for Longfellow Energy, LP ("Longfellow") and am familiar with the subject application and geology involved.

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

4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology matters. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record previously. My education and work experience are as follows: I graduated from the University of Oklahoma in 2010 with a Bachelor of Science degree in Petroleum Geology and graduated from the University of Texas at Dallas with a Master's of Science degree in Geosciences in 2014. I have been employed with Longfellow Energy, LP, since 2007. I have worked as a Geologist on various projects in Oklahoma and Texas and recently, New Mexico. In addition, to my experience working projects in the United States, I

Exhibit B Longfellow Energy, LP NM OCD Case No. 23081 November 17, 2022 also have experience working carbonate projects in Albania and Bulgaria through our affiliated international company, TransAtlantic Petroleum.

5. **Exhibit B-1a and Exhibit B-1b** include a geological summary for the proposed horizontal spacing unit ("HSU") and related wells.

6. **Exhibit B-2** is a regional Yeso structure map with 50' contour intervals, which illustrates the location of the HSU by a red outline.

7. **Exhibit B-3** is 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".

8. **Exhibit B-4** is a type log of the production portion of the Yeso formation on the Northwest Shelf and further defines bench 1 "Paddock" and bench 2 "Blinebry" within the Yeso formation. This type log identifies the key tops used to evaluate reservoirs and landing targets for the proposed wells.

9. **Exhibit B-5** is a Yeso structural cross section map with 50' contour intervals with the location of the HSU outlined in red, the approximate locations of the proposed wells, and whether the wells are considered bench 1 "Paddock" or bench 2 "Blinebry".

10. **Exhibit B-6** is the structural cross section and indicates that these wells are being placed in a zone that has an estimated gross interval thickness of 1700'. This gross thickness is being calculated from the top of the Paddock to the top of the Tubb within the Yeso formation.

11. **Exhibit B-7** is a gunbarrel diagram depicting each well. These diagrams show the approximate landing zones in reference to the type log for the area and the associated spacing of the wellbores within the half-section width HSU.

2

12. The measured depths and true vertical depths for each well are approximately as follows:

	MD	TVD
Marley State Com 31CD 001H	9,400'	3800'
Marley State Com 31CD 002H	10,000'	4400'
Marley State Com 31CD 003H	9,600'	3850'
Marley State Com 31CD 004H	10,200'	4450'
Marley State Com 31CD 005H	9,600'	3900'

13. The true vertical landing depth of the target formation is approximately 9550' for the bench 1 "Paddock" wells (#005H), and approximately10,100'' for the bench 2 "Blinebry" wells (#002H, #004H, based on the structural cross section, Exhibit B-6.

14. Based on my geologic study of the area, I conclude the following:

- a. The horizontal spacing and proration units are justified from a geologic standpoint.
- b. There are no structural impediments or faulting that will interfere with horizontal development.
- c. Each quarter-quarter section in the HSU will contribute more or less equally to production.
- d. The preferred well orientation is west-east because there is no known and generally accepted preferential drilling orientation based on present-day stress regime or other geological factors. The vast majority of existing NW Shelf Yeso horizontal wells are oriented W-E, so an established trend is present. This orientation also fits our lease boundaries and aligns with the remainder of Longfellow's planned development in the adjoining tracts. Therefore, the preferred well orientation does not strand any acreage or reserves.

15. The Exhibits to this Affidavit were prepared by me, or compiled from Longfellow's business records.

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16. The granting of the Application is in the interests of conservation, the prevention

of waste, and the protection of correlative rights.

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

FURTHER AFFIANT SAYETH NAUGHT

Jennifer Eker

STATE OF TEXAS

COUNTY OF DALLAS

Subscribed to and sworn before me this 7th day of November, 2022.

))ss

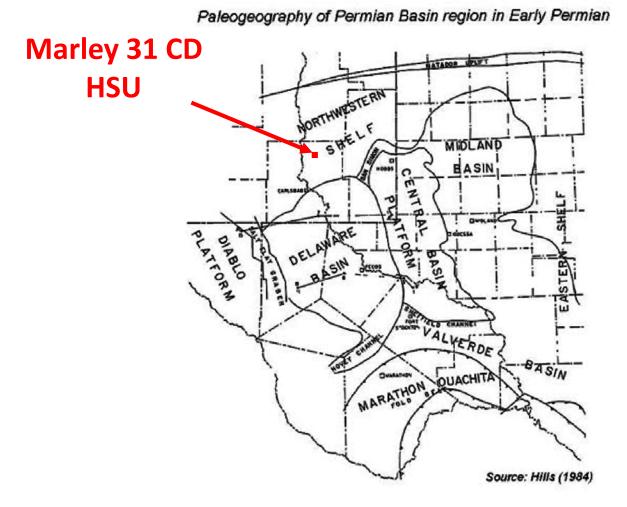
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RYAN REYNOLDS Notary Public, State of Texas Comm. Expires 05-10-2026 Notary Public Notary ID 131562762

My Commission expires <u>5/10/2026</u>

Tab 6.

Regional View of the NW Shelf



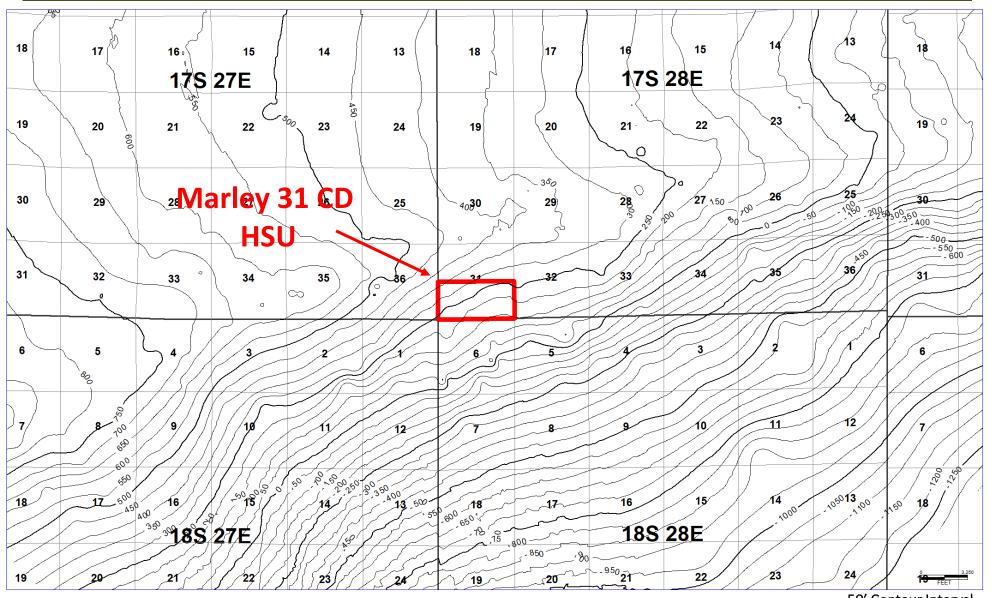


NW Shelf Stratigraphic Column

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		EI	Queen	•	ÿ	
			Grayburg	•		
Permian 289-248 MYA	Guadalupian		San Andres	•)	
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			Paddock	•)	Idigetted Zones
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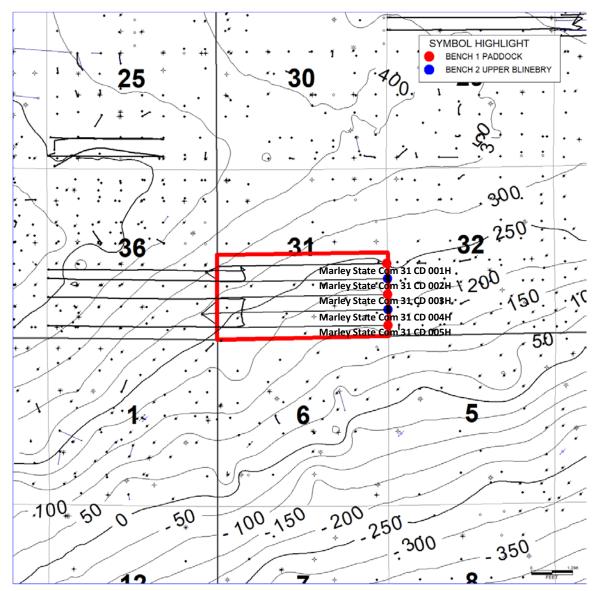
LONGFELLOW ENERGY, LP

Paddock Structure (TVDSS)





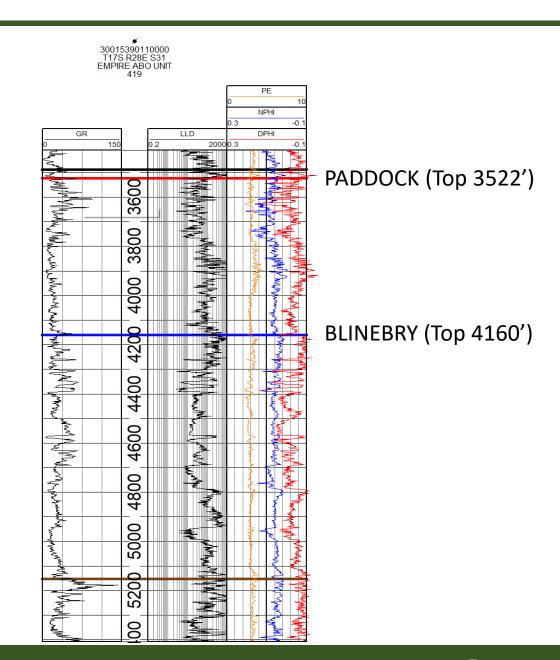
Paddock Structure (TVDSS)



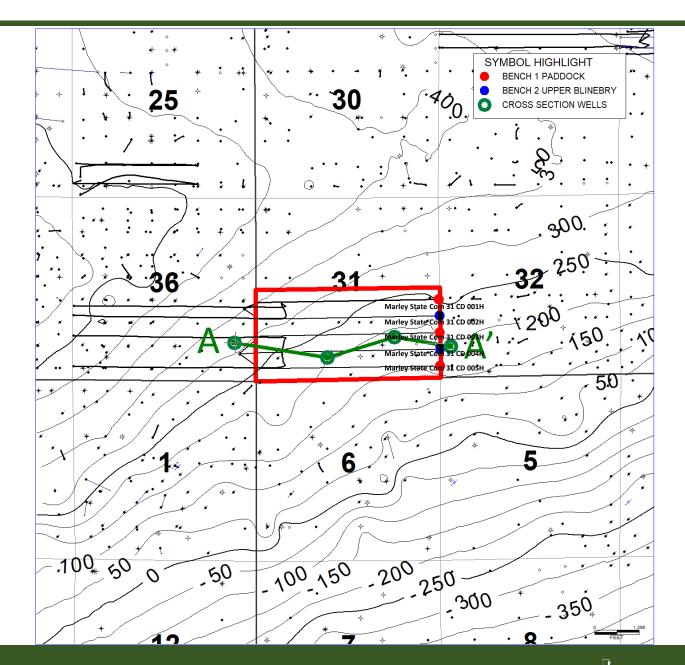
50' Contour Interval



NW Shelf Yeso Type Log with Target Intervals



Marley 31 CD Cross Section Line

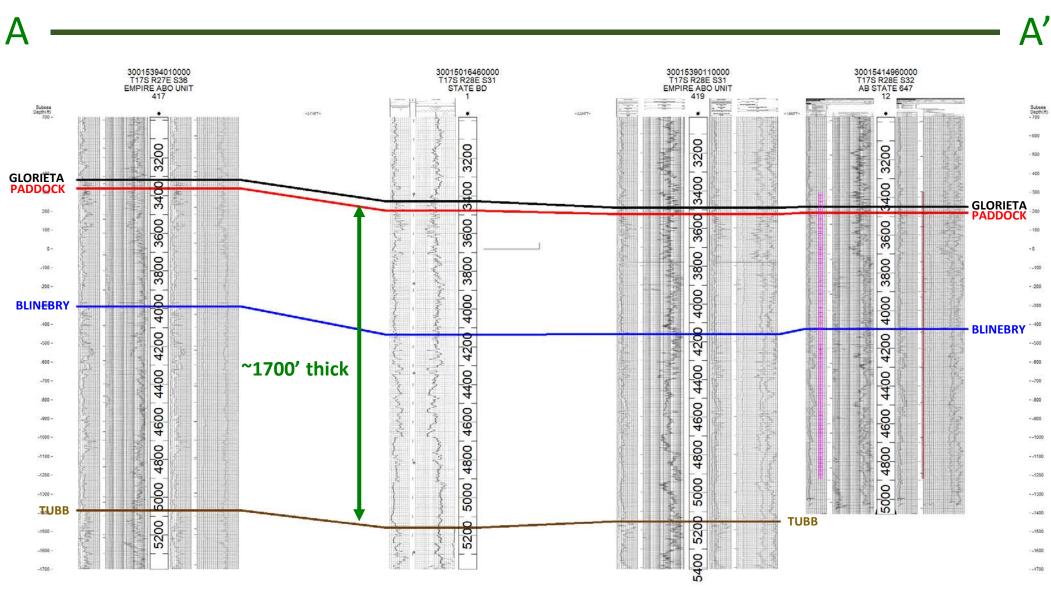


50' Contour Interval



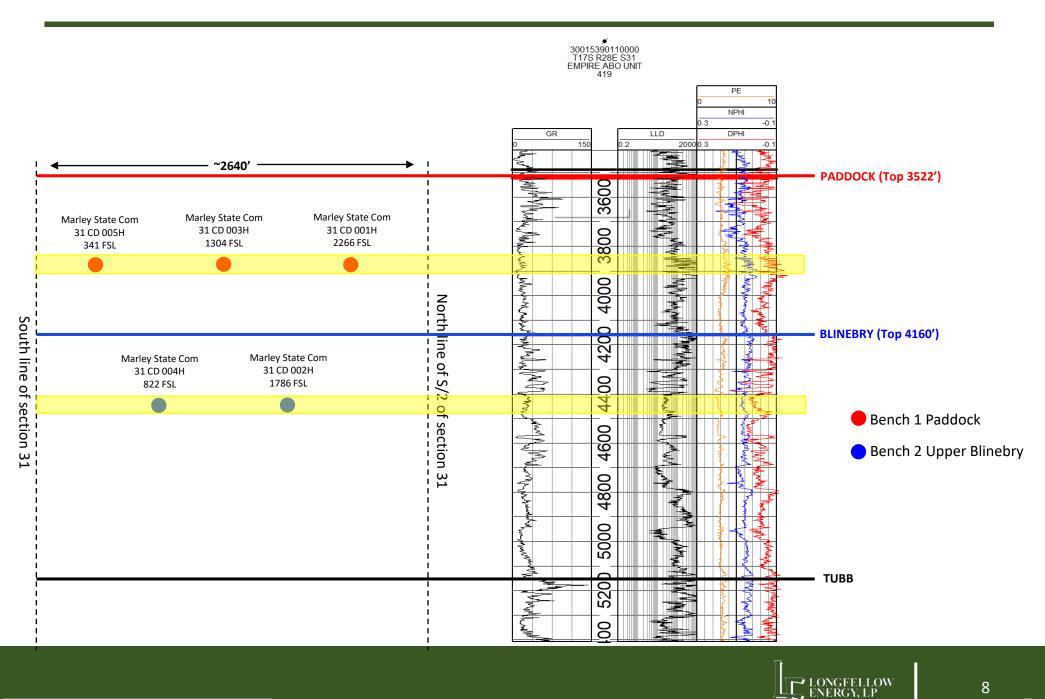
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Marley 31 CD Structural Cross Section



LONGFELLOW ENERGY, LP Pagex 6769 B02 Case No. 23081

Marley 31 CD Barrel Diagram and Landing Zone



Tab 7.

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

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

Case No. 23081

AFFIDAVIT OF NOTICE

STATE OF NEW MEXICO)) ss. COUNTY OF SANTA FE)

I, Sharon T. Shaheen, attorney for LONGFELLOW ENERGY, LP ("Longfellow"), the Applicant in the above-captioned matter, being first duly sworn, state the following:

1. I caused notice of the application to be sent by certified mail through the United States Postal Service on September 16, 2022, to all interest owners in this proceeding. Evidence of mailing to all such owners is attached hereto as Exhibit A. Notice was also directed to all owners by publication in the Carlsbad Current Argus on September 22, 2022, which is reflected in the Affidavit of Publication attached hereto as Exhibit B. Exhibit B demonstrates to my satisfaction that those owners who did not receive personal notice through the certified mailing were properly served by publication.

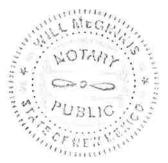
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2. Longfellow has conducted a good faith, diligent effort to find the names and correct addresses for the interest owners entitled to receive notice of the Application filed herein.

Sharon J Shakeen

SHARON T. SHAHEEN

SUBSCRIBED AND SWORN to before me this day of November, 2022.



M n

Notary Public

My Commission Expires:

August 13, 2023

Longfellow Energy LP

Marley State Com 31CD 001H, 002H, 003H, 004H, and 005H Wells / Case No. 23081

November 17, 2022 Hearing

Entity	Date Letter Mailed	Certified Mail Number	Status of Delivery	Date Received
	WORKI	NG INTEREST PARTY(IES)		
ZPZ Delaware I, LLC 2000 Post Oak Blvd., Suite 100 Houston, TX 77056	09/16/2020	7014 0150 0000 5152 8252	Delivered	09/20/2022
Glenn F. Leet, Jr., aka Glenn F. River, Jr. 43 Lakeview Terrace Sandy Hook, CT 06482	09/16/2020	7014 0150 0000 5152 8436	Delivered	09/20/2022
SEP Permian, LLC 9655 Katy Freeway, Suite 500 Houston, TX 77024	09/16/2020	7014 0150 0000 5152 8429	Delivered	09/19/2022
Frank Hatch 9111 Spendido Way Elk Grove, CA 95758-5836	09/16/2020	7014 0150 0000 5152 8443	Delivered	09/21/2022
WPX Energy Permian, LLC c/o Devon Energy – Regulatory 333 West Sheridan Ave., Oklahoma City, OK 73102	09/16/2020	7014 0150 0000 5152 8467	Delivered	09/19/2022
Main Street Holding Company c/o Daniel J. Haake 11413 W. 104th St. Overland Park, KS 66214	09/16/2020	7014 0150 0000 5152 8450	Delivered	09/20/2022
Marathon Oil Co. 5555 San Felipe St. Houston, TX 77056-2723	09/16/2020	7014 0150 0000 5152 8474	Delivered	09/29/2022

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EXHIBIT A Updated: November 10, 2022

Released to Imaging: 11/10/2022 5:06:36 PM

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Longfellow Energy LP

Marley State Com 31CD 001H, 002H, 003H, 004H, and 005H Wells / Case No. 23081

November 17, 2022 Hearing

Entity	Date Letter Mailed	Certified Mail Number	Status of Delivery	Date Received
The Regents of the University of New Mexico, Carl A. Hatch Professorship of Law & Public Administration Fund MSC 06 3595 1 University of New Mexico Albuquerque, NM 87131-0001	09/16/2020	7014 0150 0000 5152 8481	Not Delivered	Not Delivered
Carla Leet-Assaf 3401 N. Bay Breeze Ln. Fort Worth, TX 76179-3849	09/16/2020	7014 0150 0000 5152 8498	Return to Sender	09/26/2022
Chisos, Ltd. 1331 Lamar St., Suite 1077 Houston, TX 77010	09/16/2020	7014 0150 0000 5152 8504	Delivered	09/20/2022
Frederika A. Leet 43 Lakeview Terrace, Apt PH Sandy Hook, CT 06482	09/16/2020	7014 0150 0000 5152 8511	Return to Sender	10/20/2022
Maverick Permian, LLC 1111 Bagby St., Ste. 1600 Houston, TX 77002	09/16/2020	7014 0150 0000 5152 8528	Delivered	09/20/2022
Carl F. Hatch 101 S. Front St., #9 Rio Vista, CA 94571	09/16/2020	7014 0150 0000 5152 8535	Delivered	09/19/2022
Nestegg Energy Corporation, 2308 Sierra Vista Road Artesia, New Mexico 88210	09/16/2020	7014 0150 0000 5152 8542	Delivered	09/20/2022
ConocoPhillips Company 600 W. Illinois Ave. Midland, Texas 79701	09/16/2020	7014 0150 0000 5152 8559	Delivered	09/20/2022

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Longfellow Energy LP

Marley State Com 31CD 001H, 002H, 003H, 004H, and 005H Wells / Case No. 23081

November 17, 2022 Hearing

Entity	Date Letter Mailed	Certified Mail Number	Status of Delivery	Date Received
EOG Resources, Inc.	09/16/2020	7014 0150 0000 5152 8566	Delivered	09/20/2022
5509 Champions Dr.				
Midland, TX 79702				
Jeannie Hatch Hutchison	09/16/2020	7014 0150 0000 5152 6418	Not Delivered	Not Delivered
3500 Enfield Rd., Apt. E				
Austin, Texas 78703				
John & Theresa Hillman Family	09/16/2020	7014 0150 0000 5152 6401	Return to Sender	9/23/2022
Properties, LP				
3300 N. A Street				
Bldg. 8 – Suite 106				
Midland, TX 79705				
Henry Shaw and Bobbie Ann Shaw	09/16/2020	7014 0150 0000 5152 6425	Return to Sender,	10/10/2022
1415 Sparks St.				
Midland, Texas 79701				
Manix Royalty, Ltd.	09/16/2020	7014 0150 0000 5152 6432	Not Delivered	Not Delivered
3300 N. A Street				
Bldg. 8 – Suite 106				
Midland, TX 79705				
Colaro Corporation	09/16/2020	7014 0150 0000 5152 6449	Return to Sender	10/03/2022
5625 Daniels Avenue				
Dallas, Texas 75206				
Black Shale Minerals, LLC	09/16/2020	7014 0150 0000 5152 6456	Returned to Sender	09/22/2022
5006 State Hwy 31 North				
Longview, TX 75603				

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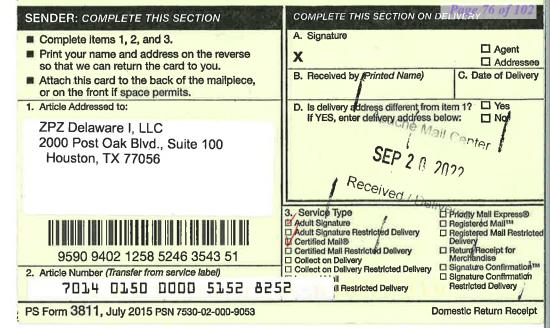
Longfellow Energy LP

Marley State Com 31CD 001H, 002H, 003H, 004H, and 005H Wells / Case No. 23081

November 17, 2022 Hearing

Entity	Date Letter Mailed	Certified Mail Number	Status of Delivery	Date Received
ELSR, LP, a Texas Limited Partnership, BengalJones Group LLC, General Partner 8080 North Central Expressway, Suite 1420 Dallas, Texas 75206	09/16/2020	7014 0150 0000 5152 8573	Delivered	10/10/2022
Occidental Permian Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046	09/16/2020	7014 0150 0000 5152 8405	Delivered	10/23/2022
Rock Energy Corporation, an Oklahoma corporation 210 Park Avenue No. 2750 Oklahoma City, OK 73102	09/16/2020	7014 0150 0000 5152 6463	Return to Sender,	09/26/2022
OXY USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046	09/16/2020	7014 0150 0000 5152 6487	Delivered	09/19/2022
Sherman Nelson (unlocatable)	09/16/2020			
State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501	09/16/2020	7014 0150 0000 5152 6494	Delivered	09/20/2022

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Latest Update

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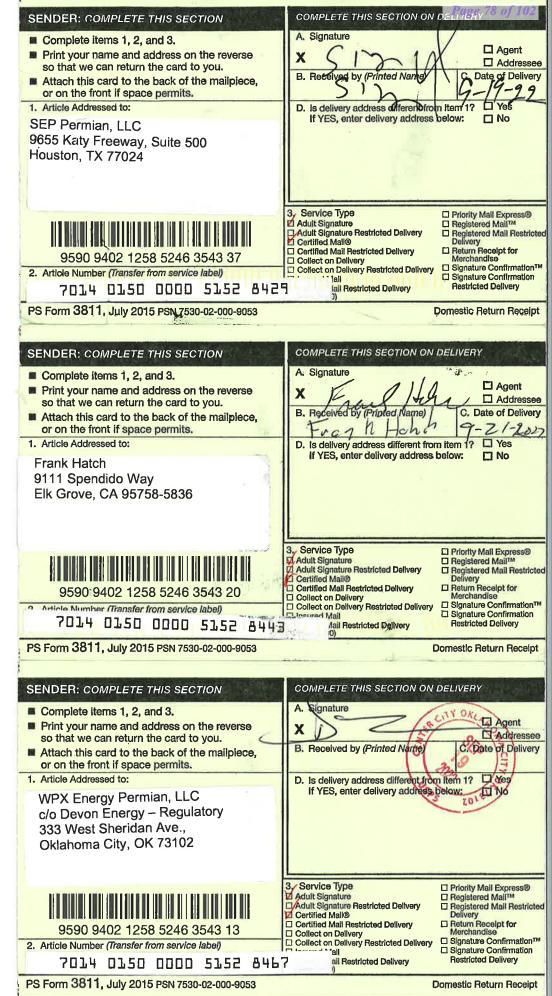
Page 77 of 102

FAQs >

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Tracking Number: 70140150000051528474

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Text & Email Updates	01.50	Marathon Oil Co. 5555 San Felipe St.	
USPS Tracking Plus®	7074	Houston, TX 77056-2723	
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FAQs >

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Tracking Number:

The delivery status of your item has not been updated as of September 20, 2022, 12:10 am. We apologize that it may arrive later than expected.

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	Out for Delivery ALBUQUERQUE, NM 87101 September 19, 2022, 6:10 am See All Tracking History	0150 0000 5152	Rostage Certified Fee Return Receipt Fee (Endorsement Required) Restricted Delivery Fee (Endorsement Required) The Regents of the University of N Carl A. Hatch Professorship of Law Administration Fund	Postmark Here ew Mexico, v & Public
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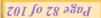
Page 81 of 102

FAQs >

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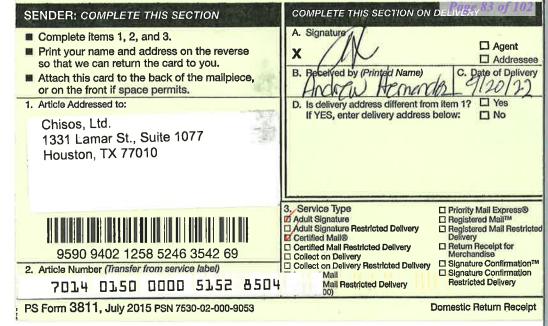


P.O. Box 2307 Santa Fe, New Mexico 87504-2307

Carla Leet-Assaf 3401 N. Bay Breeze Ln. Fort Worth, TX 76179-3849 NIXIE 731 FE 1 0003/26/22

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Santa Fe, New Mexico 87504-2307 Frederika A. Leet 43 Lakeview Terrace, Apt PH Sandy Hook, CT 06482

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Latest Update

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Delivered

Out for Delivery

Preparing for Delivery

Moving Through Network In Transit to Next Facility

September 22, 2022

Departed USPS Regional Facility AUSTIN TX DISTRIBUTION CENTER September 18, 2022, 9:53 pm

See All Tracking History

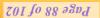
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Santa Fe, New Mexico 87504-2307 P.O. Box 2307

John & Theresa Hillman Family Properties, LP Bldg. 8 – Suite 106 Midland, TX 79705 3300 N. A Street

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Santa Fe, New Mexico 87504-2307 P.O. Box 2307

Henry Shaw and Bobbie Ann Shaw 1415 Sparks St. Midland, Texas 79701

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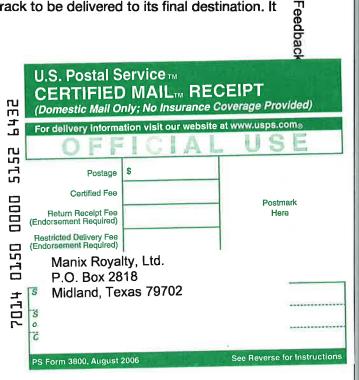
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NIXIE

Dallas, Texas

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RETURN TO SENDER NO SUCH NUMBER UNABLE TO FORWARD

From:	Jonny Brumley
To:	Sharon T. Shaheen
Subject:	Marley Estate Com 31 CD 001H, 2H, 3H,4H,5H Address change and question
Date:	Monday, October 10, 2022 12:16:16 PM
Attachments:	22.10.10 Eddy NM 31-17S28E Marley State Com 31 Correspondence.pdf

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Ms. Shaheen,

I hope you are doing well. I am the owner of ELSR LP and this email has two purposes. The first is to ask that Montgomery and Andrews and your client start sending mail to the correct address which is below. ELSR LP 4455 Camp Bowie Blvd. Suite 114 #49 Fort Worth, TX 76102

The second reason I am contacting you is to make sure that ELSR LP does not have to make an election. Your letter and my files indicate that ELSR LP owns an overriding royalty in this section, and I just want to make sure that there is not an election or something that I am missing. ELSR's properties are mainly in TX and OK, so I am less familiar with New Mexico.

Thanks for your help. I have attached the letter to this email. Please change the address and let me know either way if I have an election to make.

Have a good day.

Jonny Brumley 817-796-9980





SHARON T. SHAHEEN Direct: (505) 986-2678 Email: <u>sshaheen@montand.com</u> www.montand.com

September 16, 2022

Via U.S. Certified Mail, return receipt requested

TO: ALL INTEREST OWNERS ON ATTACHED LIST

Re: Case No. 23081 – Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico – Marley State Com 31 CD 001H, 002H, 003H, 004H and 005H

Dear Interest Owner:

This will advise that pursuant to NMSA 1978, § 70-2-17, Longfellow Energy, LP ("Longfellow") has filed an Application with the New Mexico Oil Conservation Division for orders regarding the proposed wells described below. You are receiving this notice because you may have an interest in one or more of these wells.

Case No. 23081. Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico. Applicant in the above-styled cause seeks an order from the Division pooling all uncommitted interests in the Yeso formation (Red Lake; Glorieta-Yeso, Northeast [96836]) in a standard 320-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the S/2 of Section 31, Township 17 South, Range 28 East in Eddy County, New Mexico. The HSU is to be dedicated to the following one-mile wells: (1) Marley State Com 31CD 001H well, to be horizontally drilled from an approximate surface hole location 2098' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 2266' FSL and 20' FEL of Section 31, T17S-R28E; (2) Marley State Com 31CD 002H well, to be horizontally drilled from an approximate surface hole location 2078' FSL and 332' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1786' FSL and 20' FEL of Section 31, T17S-R28E; (3) Marley State Com 31CD 003H well, to be horizontally drilled from an approximate surface hole location 805' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 1304' FSL and 20' FEL of Section 31, T17S-R28E; (4) Marley State Com 31CD 004H well, to be horizontally drilled from an approximate surface hole location 785' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 822' FSL and 20' FEL of Section 31, T17S-R28E; and (5) Marley State Com 31CD 005H well, to be horizontally drilled from an approximate

REPLY TO:

325 Paseo de Peralta Santa Fe, New Mexico 87501 Telephone (505) 982-3873 • Fax (505) 982-4289

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surface hole location 765' FSL and 464' FEL of Section 36, T17S-R27E, to an approximate bottom hole location 341' FSL and 20' FEL of Section 31, T17S-R28E.

The Marley State Com 31CD 003H well is a proximity well located within the S/2 S/2 of Section 31, T17S-R28E. Its completed interval will be less than 330' from the N/2 S/2 of Section 31, T17S-R28E. Longfellow therefore proposes to include the N/2 S/2 of Section 31, T17S-R28E as proximity tracts under 19.15.16.15(B)(1)(b) NMAC. With the proximity tracts included, the first and last take points and completed intervals meet the setback requirements set forth in the statewide rules for horizontal oil wells. Also to be considered will be the cost of drilling and completing the wells and the allocation of the costs, the designation of Applicant as Operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 12 miles southeast of Artesia City, New Mexico.

The attached application will be set for hearing before a Division Examiner at the New Mexico Oil Conservation Division. During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. The hearing will be conducted on **October 6, 2022**, beginning at 8:15 a.m. To participate in the electronic hearing, see the instructions posted on the docket for the hearing date: http://www.emnrd.state.nm.us/OCD/hearings.html. You are not required to attend this hearing, but as an owner of an interest that may be affected, you may appear and present testimony.

Failure to appear at that time and become a party of record will preclude you from challenging this application at a later time. If you intend to present testimony or evidence at the hearing, you must enter your appearance by **September 28, 2022**, and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement by **September 29, 2022**, in accordance with Division Rule 19.15.4.13 NMAC.

Please feel free to contact me if you have any questions about these Applications.

Very truly yours,

<u>/s/ Sharon T. Shaheen</u> Sharon T. Shaheen

STS/rsg Enclosures

<u>EXHIBIT A</u>

INTEREST OWNERS

Working Interest Party(ies):

ZPZ Delaware I, LLC 2000 Post Oak Blvd., Suite 100 Houston, TX 77056

SEP Permian, LLC 9655 Katy Freeway, Suite 500 Houston, TX 77024

WPX Energy Permian, LLC c/o Devon Energy – Regulatory 333 West Sheridan Ave., Oklahoma City, OK 73102

Marathon Oil Co. 5555 San Felipe St. Houston, TX 77056-2723

Carla Leet-Assaf 3401 N. Bay Breeze Ln. Fort Worth, TX 76179-3849

Frederika A. Leet 43 Lakeview Terrace, Apt PH Sandy Hook, CT 06482

Carl F. Hatch 101 S. Front St., #9 Rio Vista, CA 94571

Overriding Royalty Interest Owners:

Nestegg Energy Corporation 2308 Sierra Vista Road Artesia, New Mexico 88210

EOG Resources, Inc. 5509 Champions Dr. Midland, TX 79702 John & Theresa Hillman Family Properties, LP Glenn F. Leet, Jr., aka Glenn F. River, Jr. 43 Lakeview Terrace Sandy Hook, CT 06482

Frank Hatch 9111 Spendido Way Elk Grove, CA 95758-5836

Main Street Holding Company c/o Daniel J. Haake 11413 W. 104th St. Overland Park, KS 66214

The Regents of the University of New Mexico, Carl A. Hatch Professorship of Law & Public Administration Fund MSC 06 3595 1 University of New Mexico Albuquerque, NM 87131-0001

Chisos, Ltd. 1331 Lamar St., Suite 1077 Houston, TX 77010

Maverick Permian, LLC 1111 Bagby St., Ste. 1600 Houston, TX 77002

ConocoPhillips Company 600 W. Illinois Ave. Midland, Texas 79701

Jeannie Hatch Hutchison 3500 Enfield Rd., Apt. E Austin, Texas 78703 Henry Shaw and Bobbie Ann Shaw P.O. Box 50187 Midland, TX 79710

Manix Royalty, Ltd. P.O. Box 2818 Midland, Texas 79702

Black Shale Minerals, LLC 5006 State Hwy 31 North Longview, TX 75603

Occidental Permian Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046

OXY USA WTP Limited Partnership 5 Greenway Plaza, Suite 110 Houston, Texas 77046 1415 Sparks St. Midland, Texas 79701

Colaro Corporation 5625 Daniels Avenue Dallas, Texas 75206

ELSR, LP, a Texas Limited Partnership, BengalJones Group LLC, General Partner 8080 North Central Expressway, Suite 1420 Dallas, Texas 75206

Rock Energy Corporation, an
 Oklahoma corporation
 210 Park Avenue No. 2750
 Oklahoma City, OK 73102

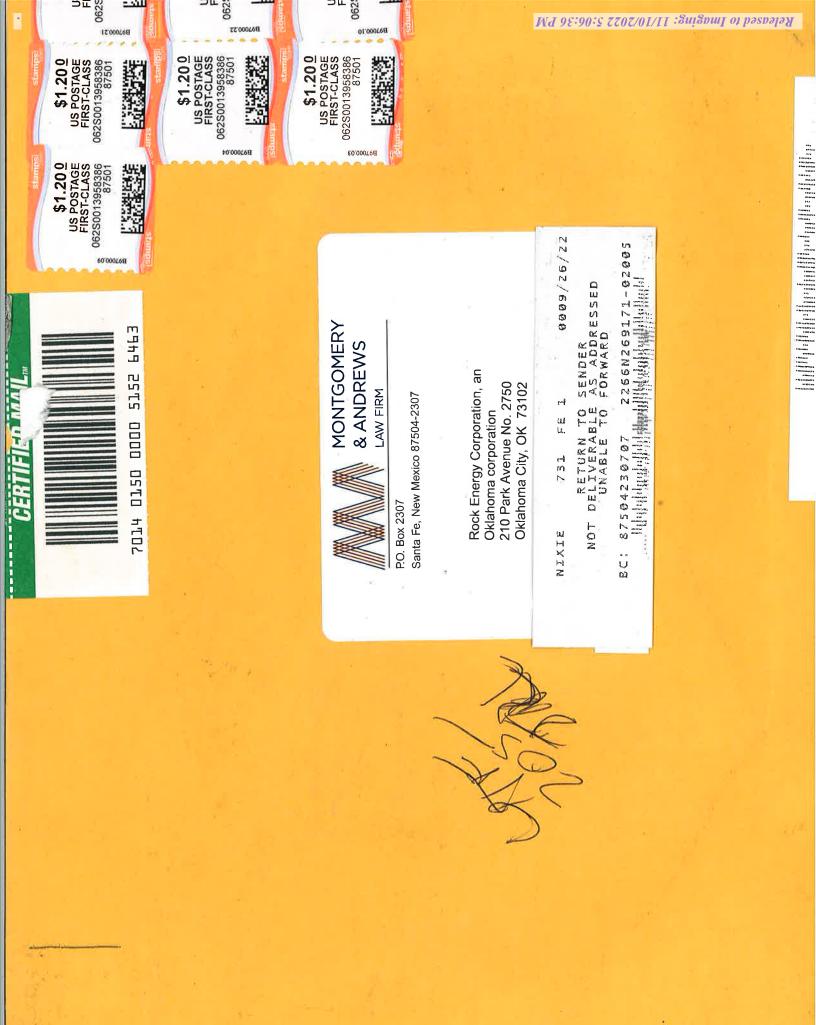
Sherman Nelson (unlocatable)

Additional Interested Party(ies):

State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501

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 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: 	A. Signature X Agent B. Received by (Printed Name) D. Is delivery address different from item 1? Ves
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State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501	If YES, enter delivery address below: No
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Carlsbad Current Argus.

Affidavit of Publication Ad # 0005419653 This is not an invoice

MONTGOMERY & ANDREWS P.A. PO BOX 2307

SANTA FE, NM 87504

I, a legal clerk of the **Carlsbad Current Argus**, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof in editions dated as follows:

09/22/2022

Legal Clerk

Subscribed and sworn before me this September 22,

2022:

State of WI, County of Brown NOTARY PUBLIC

-75

My commission expires

KATHLEEN ALLEN Notary Public State of Wisconsin

Ad # 0005419653 PO #: 05419653 # of Affidavits1

This is not an invoice

To the following entities, individuals, their heirs, personal representatives, trustees, successors or assigns, and any other uncommitted mineral owners:

ZPZ Delaware I, LLC; SEP Permian, LLC; WPX Energy Permian, LLC; WPX Energy Permian, LLC; Marathon Oil Co.; Carla Leet-Assaf; Frederika A. Leet; Carl F. Hatch; Glenn F. Leet, Jr., aka Glenn F. River, Jr.; Frank Hatch; Main Street Holding Company; The Regents of the University of New Mexico, Carl A. Hatch Professorship of Law & Public Administration Fund; Chisos, Ltd.; Maverick Permian, LLC; Nestegg Energy Corporation; EOG Resources, Inc.; John & Theresa Hillman Family Properties, LP; Manix Royalty, Ltd.; Black Shale Minerals, LLC; Occidental Permian Limited Partnership; OXY USA WTP Limited Partnership; ConocoPhillips Company; Jeannie Hatch Hutchison; Henry Shaw and Bobbie Ann Shaw; Colaro Corporation; ELSR, LP, a Texas Limited Partnership, BengalJones Group LLC, General Partner; Rock Energy Corporation; Sherman Nelson; and the New Mexico State Land Office.

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