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

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

Case No. 21860



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

June 17, 2021

Table of Contents

Checklist	1a 	_
Application		.2
Landman Testimony -	- Exhibit A	.3
Landman Exhibits		4
Exhibit A-1:	General Location Map	
Exhibit A-2:	Tract Map	
Exhibit A-3:	HSU Ownership and Wellbore Map	
Exhibit A-4:	Ownership Breakdown	
Exhibit A-5:	Chronology of Contacts	
Exhibit A-6:	C-102s	
Exhibit A-7:	Well Proposal Letter and AFEs	
Exhibit A-8:	Notice Letter	
Geologist Testimony -	- Exhibit B	.5
Geologist Exhibits		.6
Exhibit B-1:	Geological Summary, Regional View, Generalized Stratigraphic Column	
Exhibit B-2:	Regional Yeso Structure Map	
Exhibit B-3:	Spacing Unit Schematic	
Exhibit B-4:	Type Log	
Exhibit B-5:	Yeso Structural Cross Section Map	
Exhibit B-6:	Structural Cross Section	
Exhibit B-7:	Gunbarrel Diagram	
Exhibit B-8:	Marley 31 AB Proposed and Offset Vertical Wells	
Engineer Testimony –	Exhibit C	7
Exhibit C-1:	Economic Summary Projection	
Affidavit of Notice – 1	Exhibit D	8

TAB 1

COMPULSORY POOLING APPLICATION CHECKLIST

ALL INFORMATION IN THE APPLICATION MUST BE SUPPORTED BY SIGNED AFFIDAVITS		
Case: 21860	APPLICANT'S RESPONSE	
Date	June 17, 2021	
Applicant	Longfellow Energy, LP	
Designated Operator & OGRID (affiliation if applicable)	372210	
Applicant's Counsel: Case Title:	Montgomery & Andrews, P.A. (Sharon Shaheen) Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico	
Entries of Appearance/Intervenors:	Contango Resources, Inc.; V-F Petroleum, Inc.	
Well Family	Marley State Com 31AB	
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)	Horizotal	
Size (Acres)	327.09 acres, more or less	
Building Blocks:	Quarter-quarter section (40 ac)	
Orientation:	East-West	
Description: TRS/County	N/2 of Section 31-17S-28E	
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes	
Other Situations		
Depth Severance: Y/N. If yes, description	See Exhibit A-4	
Proximity Tracts: If yes, description	No	
Proximity Defining Well: if yes, description	N/A	
Applicant's Ownership in Each Tract	Tract 1a = 12.50%, Tract 1 = 100.00%, Tract 2 = 100.00%, Tract 3 = 30.06%, Tract 4a = 0.00%, Tract 4 = 34.03%, Tract 5 = 34.03%, Tract 6 = 50.00%, Tract 7 = 0.00%; see Exhibit A-2 & A-4	
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 31AB 001H, API 30-015 SHL: 1,578' FNL and 490' FWL of Section 32-17S-28E, BHL: 361' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard	
Horizontal Well First and Last Take Points	FTP (~ 342' FNL and 100' FEL of Section 31-17S-28E); LTP (~ 361' FNL and 100' FWL of Section 31-17S-28E)	
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,650'), MD (~ 9,550')	

Welkeceived by OCD: 6/15/2021 6:37:11 PM	Marley State Com 31AB 002H, API 30-015 SHL: 1,603' FNL and 490' FWL of Section 32-17S-28E, BHL: 843' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 4,150' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~824' FNL and 100' FEL of Section 31-17S-28E); LTP (~843' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,150'), MD (~ 10,050')
Well #3	Marley State Com 31AB 003H, API 30-015 SHL: 1,628' FNL and 490' FWL of Section 32-17S-28E, BHL: 1,325' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~1,306' FNL and 100' FEL of Section 31-17S-28E); LTP (~1,325' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,650'), MD (~ 9,550')
Well #4	Marley State Com 31AB 004H, API 30-015 SHL: 1,653' FNL and 490' FWL of Section 32-17S-28E, BHL: 1,807' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 4,150' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~1,787' FNL and 100' FEL of Section 31-17S-28E); LTP (~1,807' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 4,150'), MD (~ 10,050')
Well #5	Marley State Com 31AB 005H, API 30-015 SHL: 1,678' FNL and 490' FWL of Section 32-17S-28E, BHL: 2,288' FNL and 20' FWL of Section 31-17S-28E Completion Target: Yeso at approximately 3,650' Well Orientation: East to West Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~2,269' FNL and 100' FEL of Section 31-17S-28E); LTP (~ 2,288' FNL and 100' FWL of Section 31-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,650'), MD (~ 9,550')
AFE Capex and Operating Costs	
Drilling Supervision/Month \$	\$8,000; see Exhibit A, Paragraph 18
Production Supervision/Month \$	\$800; see Exhibit A, Paragraph 18

JustRicerion dobis QCD \$16/15/21/21 6:37:11 PM	Please see AFE at Exhibit A-7	
Requested Risk Charge	200%; see Exhibit A, Paragraph 19	
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	None	
Ownership Depth Severance (including percentage above &		
below)	See Exhibit A-4	
Joinder		
Sample Copy of Proposal Letter	Exhibit A-7	
List of Interest Owners	Exhibit A-4	
Chronology of Contact with Non-Joined Working Interests	Exhibit A-5	
Overhead Rates In Proposal Letter	See Exhibit A-7	
Cost Estimate to Drill and Complete	See AFE at Exhibit A-7	
Cost Estimate to Equip Well	See AFE at Exhibit A-7	
Cost Estimate for Production Facilities	See AFE at Exhibit A-7	
Geology		
Summary (including special considerations)	Exhibit B-1	
Spacing Unit Schematic	Exhibit B-3	
Gunbarrel/Lateral Trajectory Schematic	Exhibit B-7	
Well Orientation (with rationale)	Exhibit B-1	
Target Formation	Exhibits B-4, B-5 & B-6	
HSU Cross Section	Exhibit B-6	
Depth Severance Discussion	See Exhibit A-4	
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 provide	led 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:	6/15/2021	

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. 21860	
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APPLICATION

Longfellow Energy, LP ("Longfellow"), through its undersigned counsel Montgomery & Andrews, P.A. (Sharon T. Shaheen and John F. McIntyre), hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for 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 N/2 of Section 31, Township 17 South, Range 28 East, NMPM, 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 1-mile wells in the proposed HSU:
 - Marley State Com 31 AB 001H well, to be horizontally drilled from an approximate surface hole location 1578' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 361' FNL and 100' FWL of Section 31, T17S-R28E;
 - Marley State Com 31 AB 002H well, to be horizontally drilled from an approximate surface hole location 1603' FNL and 490' FWL of Section 32, T17S-

R28E, to an approximate bottom hole location 843' FNL and 100' FWL of Section 31, T17S-R28E;

- Marley State Com 31 AB 003H well, to be horizontally drilled from an approximate surface hole location 1628' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1325' FNL and 100' FWL of Section 31, T17S-R28E;
- Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1653' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1807' FNL and 100' FWL of Section 31, T17S-R28E; and
- Marley State Com 31 AB 005H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 2288' FNL and 100' FWL of Section 31, T17S-R28E.
- 3. The completed intervals and first and last take points for all wells will meet the setback requirements set forth in the statewide rules for horizontal oil wells.
- 4. Total vertical depths will range from 3,625'-4,025'. A depth severance exists in the NW/4 NW4 of Section 31, T17S-R28E where Contango Resources owns 87.5% of the 40 acre tract above 3,560' and EOG owns 87.5% below 3,560'. The other 12.5% in this tract is owned by Read & Stevens, which owns all depths within the Yeso.
- 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 May 6, 2021, and that, after notice and hearing as required by law, the Division enter an order:

- A. Creating a standard 320-acre, more or less, HSU comprised of the N/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 following 1-mile wells in the HSU: (1) Marley State Com 31AB 001H, (2) Marley State Com 31AB 002H, (3) Marley State Com 31AB 003H, (4) Marley State Com 31AB 004H, and (5) Marley State Com 31AB 005H.
 - 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

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.

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Attorneys for Longfellow Energy, LP

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. 21860

AFFIDAVIT OF 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 employed as a landman with Longfellow Energy, LP ("Longfellow"), and I am familiar with the subject application and the lands involved.
- 3. This affidavit is submitted in connection with the filings by Longfellow of the above-referenced compulsory pooling application pursuant to 19.15.4.12(A)(1) NMAC.
- 4. I have not previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum land matters. 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 4 years.
- 5. The purpose of this application is to force pool working interest owners and uncommitted mineral interest owners into the horizontal spacing and proration unit ("HSU") described below, and in the wells to be drilled in that unit.

Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021

- 6. The interest owners being pooled have been contacted regarding the proposed wells, but have failed or refused to voluntarily commit their interest in the wells.
- 7. In Case No. 21860, 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, HSU comprised of the N/2 of Section 31, Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Longfellow proposes to drill the following 1-mile wells in the proposed HSU (collectively, the "Marley State Com 31 AB Wells"):
 - a. Marley State Com 31 AB 001H well, to be horizontally drilled from an approximate surface hole location 1578' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 361' FNL and 100' FWL of Section 31, T17S-R28E. The first take point will be located at approximately 342' FNL and 100' FEL of Section 31, T17S-R28E. The last take point will be located at approximately 361' FNL and 100' FWL of Section 31, T17S-R28E.
 - b. Marley State Com 31 AB 002H well, to be horizontally drilled from an approximate surface hole location 1603' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 843' FNL and 100' FWL of Section 31, T17S-R28E. The first take point will be located at approximately 824' FNL and 100' FEL of Section 31, T17S-R28E. The last take point will be located at approximately 843' FNL and 100' FWL of Section 31, T17S-R28E.
 - c. **Marley State Com 31 AB 003H** well, to be horizontally drilled from an approximate surface hole location 1628' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1325' FNL and 100' FWL of Section 31, T17S-R28E. The first take point will be located at approximately 1306' FNL

- and 100' FEL of Section 31, T17S-R28E. The last take point will be located at approximately 1325' FNL and 100' FWL of Section 31, T17S-R28E.
- d. Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1653' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1807' FNL and 100' FWL of Section 31, T17S-R28E. The first take point will be located at approximately 1787' FNL and 100' FEL of Section 31, T17S-R28E. The last take point will be located at approximately 1807' FNL and 100' FWL of Section 31, T17S-R28E.
- e. **Marley State Com 31 AB 005H** well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 2288' FNL and 100' FWL of Section 31, T17S-R28E. The first take point will be located at approximately 2269' FNL and 100' FEL of Section 31, T17S-R28E. The last take point will be located at approximately 2288' FNL and 100' FWL of Section 31, T17S-R28E.
- 8. The completed intervals and first and last take points for all proposed wells will meet the setback requirements set forth in the statewide rules for horizontal oil wells.
 - 9. A general location map is included as **Exhibit A-1**.
- 10. 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**.
- 11. A map illustrating the unit ownership can be found in the exhibit package as **Exhibit A-3**.
- 12. The ownership breakdown of interests and a list of parties to be pooled can be found at **Exhibit A-4.** Depth severances exists in the NW/4 NW4 and NE/4 NE/4 of Section 31. The

first depth severance exists in the NW/4 NW4 of Section 31, T17S-R28E, where Contango Resources owns 87.5% of the 40 acre tract above 3,560' and Longfellow owns 87.5% below 3,560' and 12.5% above 3,560' giving Longfellow ownership as to all depths within the Yeso formation in this tract. The second depth severance exists in the NE/4 NE/4 of Section 31, T17S-R28E, where Contango Resources owns 100% of the 40 acre tract above 3,400' and depths below 3,400' are owned, as follows: ZPZ Delaware - 30%, Longfellow - 34.03%, SEP Permian – 20% and WPX Energy (now Devon) – 15.97%. Total vertical depths of the proposed wells in this application will range from 3,625'-4,025'.

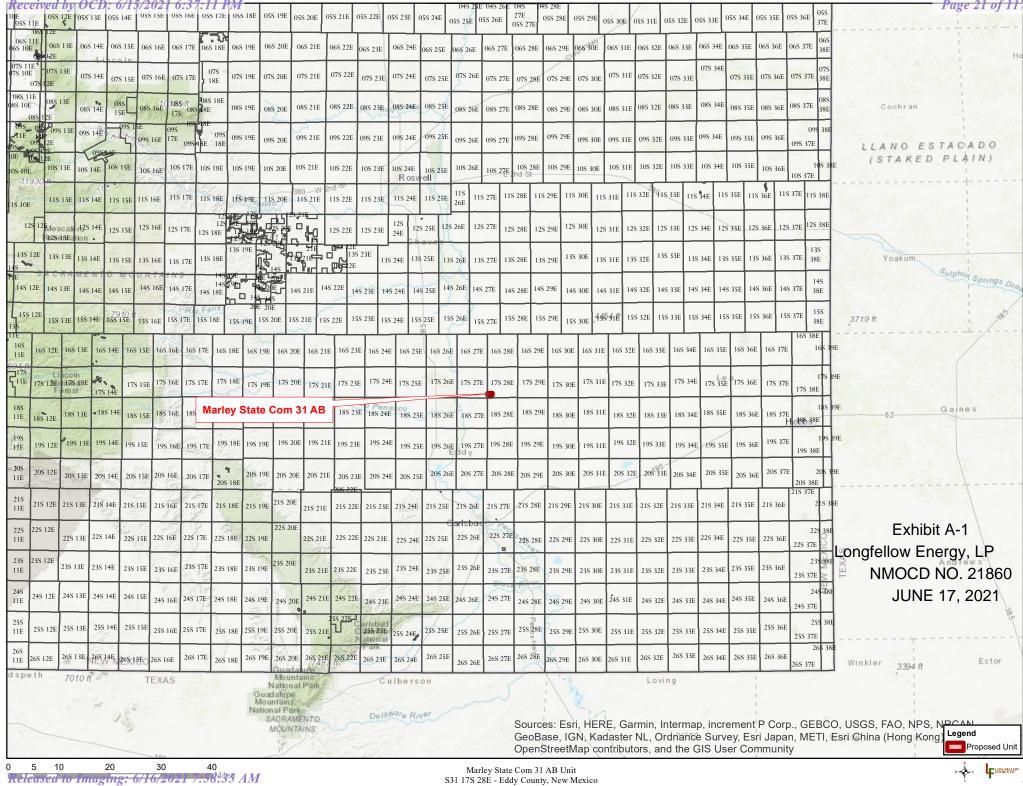
- 13. Contango Oil & Gas ("Contango") has entered an appearance in this case because it operates vertical wells in the NW/4 NW/4 of Section 31 in the proposed HSU. *See* Motion for Continuance (June 10, 2021). Contango owns a working interest (11.64%) in 160' and (23.87%) in 100' of the Yeso formation in Longfellow's proposed HSU, but that ownership is limited in depth from 3,300' down to 3,560' and 3,300' down to 3,400'. Contango's vertical wells in Longfellow's proposed HSU produce from Yeso intervals above this depth. Public data indicates that Contango has three vertical producing Yeso wells in Longfellow's proposed HSU and that together those wells currently average approximately 14 BOPD. Geologist Jennifer Eker and Engineer David Mitchell provide additional information regarding Contango's vertical wells in her affidavit submitted concurrently.
- 14. Longfellow currently owns a 55.87% working interest ownership in the Yeso formation as to depths below Contango's rights, and its proposed well horizontal laterals will be drilled in the Yeso formation at these deeper depths. The anticipated initial oil production from Longfellow's proposed five wells totals in excess of 3,000 BOPD, with substantial associated gas production.

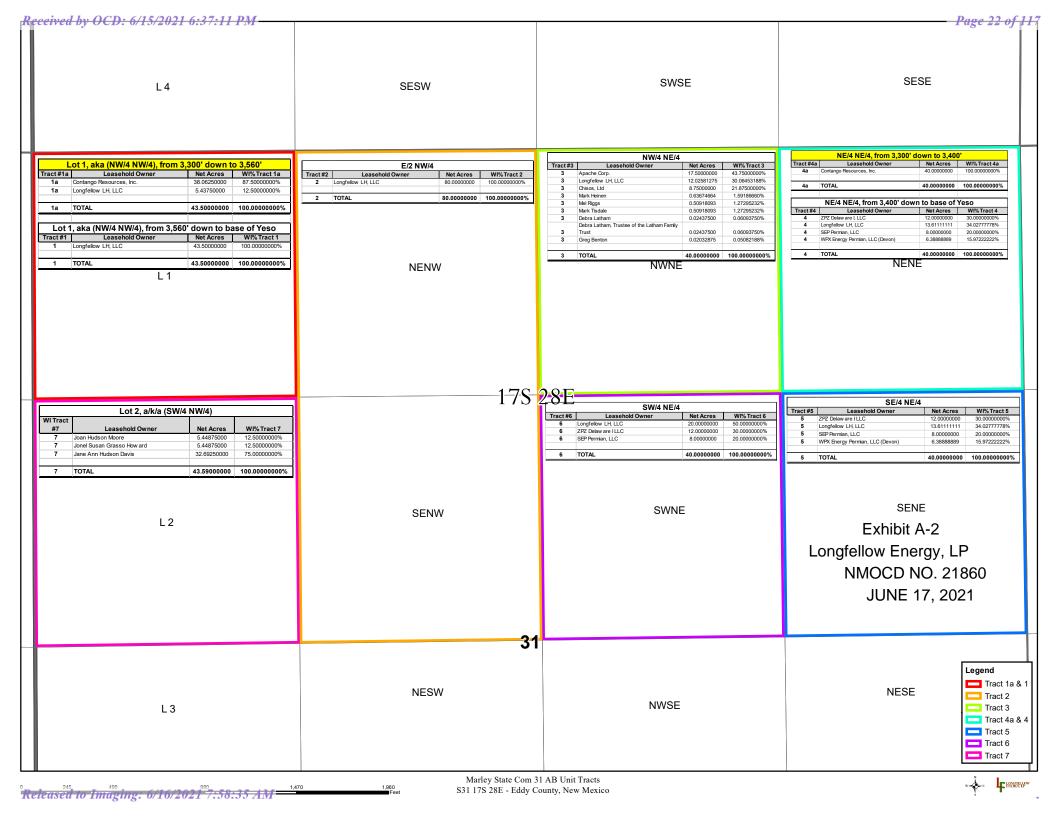
- 15. Longfellow is not aware of any secondary waterflood projects in the Yeso reservoir in the area or within 10-20 miles of the area.
- 16. A chronology of contacts with the non-joined working interest owners is attached as **Exhibit A-5**.
- 17. The locations of the proposed wells within the respective HSU are depicted in the draft C-102 forms attached as **Exhibit A-6**.
- 18. Longfellow 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. Longfellow mailed all parties well proposals and included an Authorization for Expenditure ("AFE") for each well.
- 19. **Exhibit A-7** includes a sample copy of the well proposal letters and AFEs for the proposed wells. The estimated costs for 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.
- 20. Longfellow has made a good-faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.
- 21. **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.
- 22. 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.
- 23. Longfellow requests the maximum cost, plus 200% risk charge, be assessed against non-consenting working interest owners.

- 24. Longfellow requests that it be designated operator of the wells.
- 25. The Exhibits attached to this Affidavit were prepared by me, or compiled from Longfellow's business records.
- 26. The granting of this application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
 - 27. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAY	ETH NAUGHT	The state of the s	
		Ryan Reynolds	
STATE OF TEXAS)		
COUNTY OF DALLAS)		
Subscribed to and sworn be	fore me this 15th day	of June, 2021.	
		Notary Public	
My Commission expires			

TAB 4





· ·	5/2021 6:37:11 PM			Leasehold Owner	Net Acres	Page 23 o
				Longfellow LH, LLC	182.74803497	55.87087192%
NESE	L 3	NESW	NWSE	ZPZ Delaware I, LLC	36.00000000	11.00614510%
NEGE	20			Jane Ann Hudson Davis	32.69250000	9.99495552%
				SEP Permian, LLC	24.00000000	7.33743007%
				Apache Corp.	17.50000000	5.35020942%
				Apache Corp.		
				WPX Energy Permian, LLC (Devon)	12.7777778	3.90650212%
				Chisos, Ltd	8.75000000	2.67510471%
				Joan Hudson Moore	5.44875000	1.66582592%
				Jonel Susan Grasso How ard	5.44875000	1.66582592%
				Mark Heinen	0.63674664	0.19467016%
				Mel Riggs	0.50918093	0.15566998%
0000			SWSF	Mark Tisdale	0.50918093	0.15566998%
SESE	L 4	SESW				
		OLOVV		Debra Latham	0.02437500	0.00745208%
				Debra Latham, Trustee of the Latham Family Tr		0.00745208%
				Greg Benton	0.02032875	0.00621503%
				TOTAL	327.09000000	100.00000000
			'			
nene 17S 27E	L1	NENW	17S 28E	NENE		NWNW
SENE	L2	SENW	SWNE	SENE		SWNW
NESE	L3	NESW	NWS	Exhibit A-3 Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021	SE	NWSW Legend

CONTRACT AREA:

N/2 of Section 31-17S-28E, Eddy County New Mexico, 327.09 acres, more or less

UNIT INTEREST OF THE PARTIES

Interest Owners	Ownership %
Longfellow LH, LLC	55.87087%
ZPZ Delaware I, LLC	11.00615%
Jane Ann Hudson Davis	9.99496%
SEP Permian, LLC	7.33743%
Apache Corp.	5.35021%
WPX Energy Permian, LLC (Devon)	3.90650%
Chisos, Ltd	2.67510%
Joan Hudson Moore	1.66583%
Jonel Susan Grasso Howard	1.66583%
Mark Heinen	0.19467%
Mel Riggs	0.15567%
Mark Tisdale	0.15567%
Debra Latham	0.00745%
The Latham Family Trust	0.00745%
Greg Benton	<u>0.00622%</u>
	100.00%

TRACT INTEREST OF THE PARTIES

Tract 1a (Lot 1, aka NW/4 NW/4 of Sec. 31-17S-28E, from 3,300 to 3,560', 43.50 acres, more or less)

Interest Owners	Ownership %
Contango Resources, Inc.	87.50000%
Longfellow LH, LLC	<u>12.50000%</u>
_	100 00%

Tract 1 (Lot 1, aka NW/4 NW/4 of Sec. 31-17S-28E, from 3,560' to base of Yeso, 43.50 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	100.00000%
_	100.00%

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

Interest Owners	Ownership %
Longfellow LH, LLC	100.00000%
_	100.00%

Exhibit A-4 Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021

Tract 3 (NW/4 NE/4 of Section 31-17S-28E, 40 acres, more or less)

Interest Owners	Ownership %
Apache Corp.	43.75000%
Longfellow LH, LLC	30.06453%
Chisos, Ltd.	21.87500%
Mark Heinen	1.59187%
Mel Riggs	1.27295%
Mark Tisdale	1.27295%
Debra Latham	0.06094%
The Latham Family Trust	0.06094%
Greg Benton	0.05082%
	100.00%

Tract 4a (NE/4 NE/4 of Sec. 31-17S-28E, from 3,300 to 3,400', 40 acres, more or less)

Interest Owners	Ownership %
Contango Resources, Inc.	100.00000%
_	100.00%

Tract 4 (NE/4 NE/4 of Sec. 31-17S-28E, from 3,400' to base of Yeso, 40 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	34.02778%
ZPZ Delaware I, LLC	30.00000%
SEP Permian, LLC	20.00000%
WPX Energy Permian, LLC (Devon)	<u>15.97222%</u>
	100.00%

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

Interest Owners	Ownership %
Longfellow LH, LLC	34.02778%
ZPZ Delaware I, LLC	30.00000%
SEP Permian, LLC	20.00000%
WPX Energy Permian, LLC (Devon)	15.97222%
, , ,	100 00%

Tract 6 (SW/4 NE/4 of Section 31-17S-28E, 40 acres, more or less)

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

Tract 7 (Lot 2, aka SW/4 NW/4 of Section 31-17S-28E, 43.59 acres, more or less)

Interest Owners	Ownership %
Jane Ann Hudson Davis	75.00000%
Jonel Susan Grasso Howard	12.50000%
Jane Ann Hudson Davis	12.50000%
	100.00%

OIL AND GAS LEASES SUBJECT TO THIS AGREEMENT

Lessor: State of New Mexico Lessee: Rolph Gallinger

Serial No.: B-5862

Date: February 10, 1936

Description: Lot 1 and Lot 2 of Section 31-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico Lessee: Olen F. Featherstone

Serial No.: B-7071

Date: June 10, 1937

Description: The E/2 NW/4 of Section 31-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico

Lessee: Southern Union Gas Company

Serial No.: B-11538

Date: October 10, 1944

Description: The NW/4 NE/4 of Section 31-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico Lessee: Martin Yates, Jr.

Serial No.: X-647

Date: November 14, 1922

Description: The E/2 NE/4 of Section 31-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico Lessee: H.F. McKenney

Book/Page: B-10021

Date: January 11, 1943

Description: The SW/4 NE/4 of Section 31-17S-28E, Eddy County, New Mexico

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

Exhibit A-5 Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021 District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III

District II

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1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462 State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr.

Form C-102 Revised August 1, Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

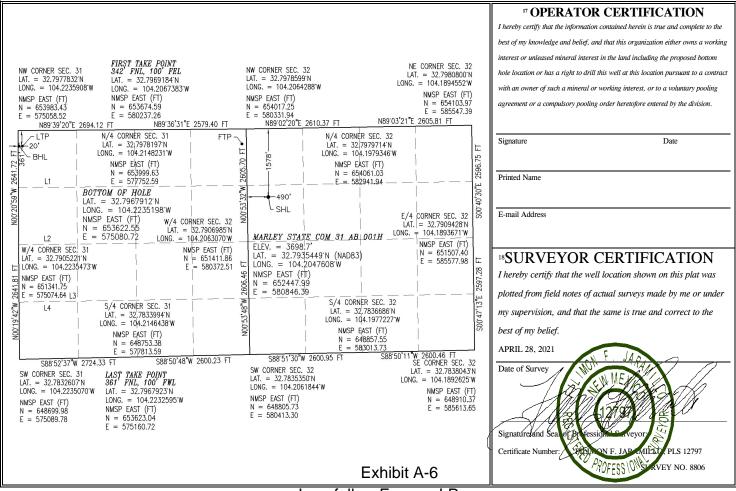
Santa Fe, NM 87505

	1	API Numbe	r		² Pool Code		³ Pool Name						
	⁴ Property Code ⁵ Property Name									⁶ Well Number			
	MARLEY STATE COM 31 AB										001H		
	⁷ OGRID No. ⁸ Operator Name									⁹ Elevation			
	37221	372210 LONGFELLOW ENERGY, LP									3698.7		
,													
	UL or lot no.	Section	Township Range Lot Idn Feet from the North/South line Feet from the East/W							est line	County		
	${f E}$	32	17 S 28 E 1578 NORTH 490 WE								EDDY		

490 1578 NORTH

	Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County			
1	31	17 S	28 E		361	NORTH	20	WEST	EDDY			
12 Dedicated Acre	¹² Dedicated Acres ¹³ Joint or Infill ¹⁴ Consolidation 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.



Longfellow Energy, LP **NMOCD NO. 21860** JUNE 17, 2021

ntent		As Drill	ed											
API#														
Oper	rator Nan	ne:	<u>l</u>			Property	Name:						Well Number	
LON	IGFELLO	W ENERG	Y, LP			M	ARLEY	'STA	ГЕ СО	M 31	АВ		001H	
					'									
	off Point (1 -		
UL E	Section 32	Township 17S	Range 28E	Lot	Feet 1578	From NO	N/S RTH	Feet 490)	From WES	E/W ST	County EDDY		
Latitu		35449			Longitu	de 104.2 0)4760	8				NAD 83		
	ake Poin		D			l e	N/C	Leur		F	5 /14/	Country		
UL A	Section 31	Township 17S	Range 28E	Lot	Feet 342	From N/S NORTH		Feet 100	100 EA		E/W T	County EDDY		
Latitude Longit 32.7969184						104.2067383					NAD 83			
Last T	Section 31	Township 17S	Range 28E	Lot 1	Feet 361	From N/S NORTH	Feet 10 0		From WES	E/W T	Count EDD	Y Y		
Latitu		967923			Longitu	de 104.22	3259	5			NAD	.D 83		
		defining wo	ell for the	Horizo	ontal Spa	cing Unit?]					
	ng Unit.	olease prov	ide API if 1	availa	ıble, Ope	erator Nar	ne and	l well	numb	er for	· Defii	ning well	for Horizonta	
AF1#														
Oper	rator Nan	ne:				Property	Name:					,	Well Numbe	
													V7.06/20/20	

KZ 06/29/2018

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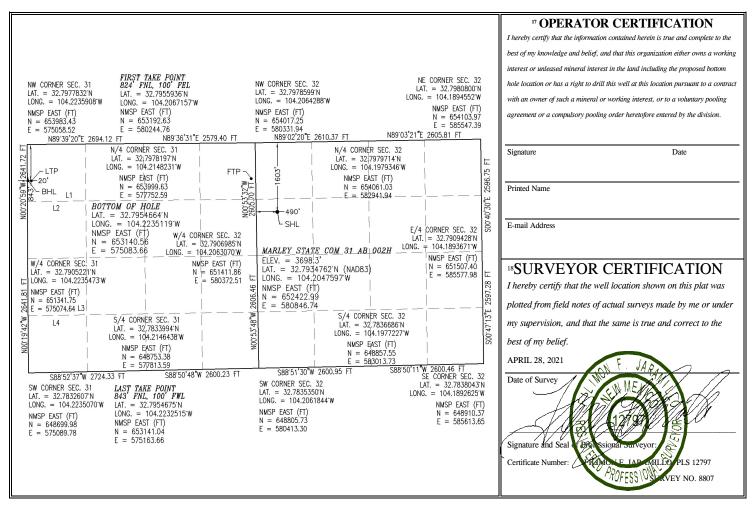
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number	r		² Pool Code	2	³ Pool Name					
⁴ Property	Code				5 Property	Name			⁶ Well Number		
	MARLEY STATE COM 31 AB										
⁷ OGRID	⁷ OGRID No. ⁸ Operator Name										
37221	372210 LONGFELLOW ENERGY, LP 3698.3								3698.3		
					10 Surface	e Location					
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County	
E	32	17 S	17 S 28 E 1603 NORTH 490 WEST EDDY								
	¹¹ Bottom Hole Location If Different From Surface										
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County	

UL or lot no.	Section 31	Township 17 S	Range 28 E	Lot Idn	Feet from the 843	North/South line NORTH	Feet from the 20	East/West line WEST	County EDDY
12 Dedicated Acre	es ¹³ Joint	or Infill 14	Consolidation	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.



ntent		As Drill	ed										
API#]										
Ope	rator Nan	ne:				Property N		Well Number					
LON	IGFELLO	W ENERG	Y, LP			MA	RLEY	STATE	COM 3 1	L AB		002H	
Kick C	Off Point (KOP)											
UL E	Section 32	Township 17S	Range 28E	Lot	Feet 1603	From N NOR1	/s TH	Feet 490	Fron WE	n E/W	County EDDY		
Latitu	de 32.79	Longitu	de 104.204	759	7	<u> </u>		NAD 83					
irst T	ake Poin	t (FTP)			·								
UL A	Section 31	Township 17S	Range 28E	Lot	Feet 824	From N NORT	/s H	Feet 100	Feet From EAS		County EDDY		
Latitude Longit 32.7955936						ude 104.2067157					NAD 83		
ast T	Section 31	Township 17S	Range 28E	Lot 1	Feet 843	From N/S NORTH	Feet 100	Į,	From E/W WEST	Count EDD	ty Y		
Latitu		954675			Longitu	de 104.223	251	5		NAD	83		
		defining we	ell for the	Horizo	ontal Spa	cing Unit?							
	ng Unit.	lease prov	ide API it	f availa	able, Ope	erator Name	and	well n	umber fo	or Defi	ning well	for Horizontal	
Ope	rator Nan	ne:				Property N	ame:					Well Number	

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12 Dedicated Acres

¹³ Joint or Infill

14 Consolidation Code

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, NM 87505

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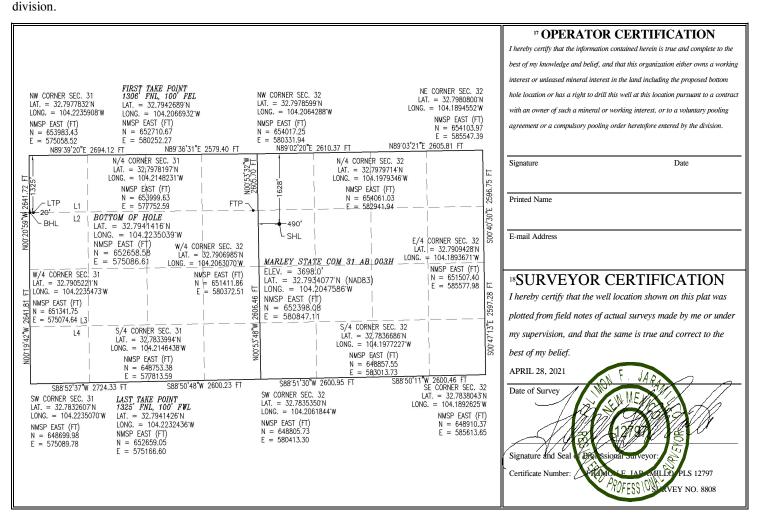
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Numbe	r		² Pool Code	2								
⁴ Property Code					⁶ Well Number								
				MA	003H								
⁷ OGRID	⁷ OGRID No.				8 Operator Name								
37221	0			LO	3698.0								
	¹⁰ Surface Location												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County			
E	32	17 S	28 E		1628	NORTH	490	WE	ST	EDDY			
	¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wo	est line	County			
2	31	17 S	28 E		1325	NORTH	20	WE	ST	EDDY			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

15 Order No.



ntent		As Drill	ed											
API#														
Ope	rator Nar	ne:	I			Property N		Well Number						
LON	IGFELLO	W ENERG	Y, LP		MA	RLEY	STAT	TE COM 3	1 AB		003Н			
Kick C	Off Point (кор)			·							•		
UL E	Section 32	Township 17S	Feet 1628	From NOR	I/S TH	Feet 490	Fro W	m E/W EST	County EDDY					
Latitu		34077			Longitu	de 104.204	1 758	6			NAD 83	}		
First T	ake Poin	t (FTP)												
UL H	Section 31	Township 17S	Range 28E	Lot	Feet 1306	From N NOR	I/S TH	Feet 100	Fro E	m E/W ST	County EDDY			
Latitu	de 32.794	2689	Longitu	de 104.206 0	6932	NAD 83								
Last T	Section	Township	Range 28 E	Lot 2	Feet 1325	From N/S NORTH	Feet 100		From E/W WEST	Coun	ty OY			
Latitu	ıde	941426		<u> </u>	Longitu						NAD 83			
		defining w nfill well?	ell for the	e Horizo	ontal Spa	cing Unit?]					
	ng Unit.	olease prov	vide API i	f availa	able, Ope	erator Namo	e and	well	number f	or Defi	ining well	for Horizontal		
Ope	rator Nar	ne:				Property Name:						Well Number		
												K7 06/20/2019		

KZ 06/29/2018

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District IV

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.

Santa Fe, NM 87505

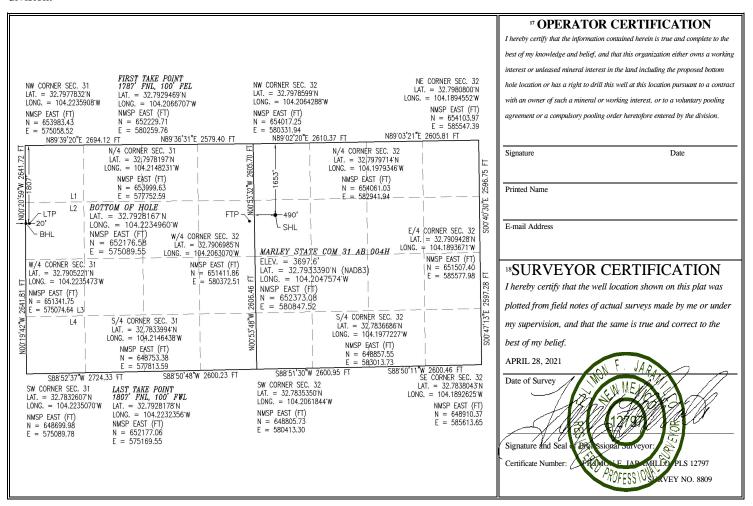
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WELL LOCATION AND ACREAGE DEDICATION PLAT

1	r		² Pool Code									
⁴ Property (⁶ Well Number								
				MA	RLEY STATE		004H					
⁷ OGRID	No.				⁹ Elevation							
37221	0			LON	3697.6							
¹⁰ Surface Location												
UL or lot no.	Section	Township Range Lot Idn Feet from the North/South line Feet from the East/We							East/West line County			
${f E}$	32	17 S	28 E		1653	NORTH	490	WE	ST	EDDY		
¹¹ Bottom Hole Location If Different From Surface												
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	n the North/South line Feet from the East/V			East/West line C			
2	31	17 S 28 E 1807 NORTH 20 WI					WE	ST	EDDY			
12 Dedicated Acres 13 Joint or Infill 14 Consolidation 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.



Intent		As Drill	ed												
API#															
Oper	ator Nan	ne:	l			Property Name:								Well Number	
LON	GFELLO	W ENERG	Y, LP			MA	RLEY	STAT	LE COI	M 31	AB		004H		
Kick O	ff Point (KOP)													
UL E	UL Section Township Range 28E Lot Feet NORTH 490 From E/W County WEST EDDY														
Latitu		33390			Longitu		4.204	757	4	· ·			NAD 83		
UL	ake Poin	Township	Range	Lot	Feet		From N	/S	Feet		From	E/W	County		
H Latitu		175	28Ē		l	1787 NORTH 100 E / Longitude					EAS	ST EDDY NAD			
	32.792	9469				104	.2066	707					83		
Last Ta	ake Point	: (LTP)													
UL	Section 31	Township 17S	Range 28E	Lot 2	Feet 1807	From NO	n N/S RTH	Feet 100		From E	:/W T	Count EDD	y Y		
Latitu		928178			Longitu	nude NAD 104.2232356						NAD	83		
		defining wo	ell for the	Horizo	ontal Spa	cing L	Jnit?]					
Spacir	I is yes p ng Unit.	lease prov	ide API if	availa	ible, Ope	erator	· Name	and	well	numbe	er for	Defir	ning well	for Horizontal	
API#															
Oper	ator Nan	ne:				Prop	erty Na	ame:						Well Number	

KZ 06/29/2018

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12 Dedicated Acres

¹³ Joint or Infill

14 Consolidation Code

State of New Mexico

Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-102
Revised August 1,
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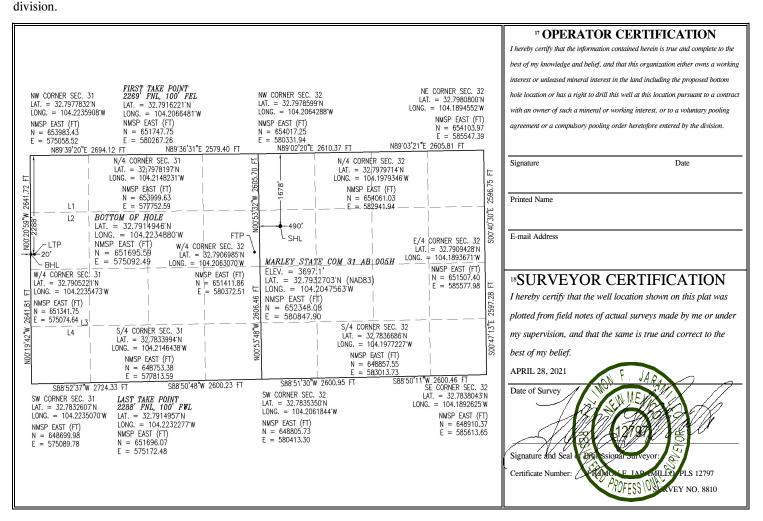
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

	r		² Pool Code	:								
⁴ Property 0	⁴ Property Code				⁶ Well Number							
	MARLEY STATE COM 31 AB									005H		
⁷ OGRID	⁷ OGRID No.				⁹ Elevation							
37221	0			LON	3697.1							
	¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
E	32	17 S	28 E		1678	NORTH	490	WE	ST	EDDY		
	¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/We	st line	County		
2	31	17 S	28 E		2288	NORTH	20	WE	EDDY			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

15 Order No.



ntent		As Drill	ed										
API#													
Ope	rator Nan	ne:	1			Property Name:						Well Number	
LON	IGFELLO	W ENERG	Y, LP			MA	RLEY	STATE C	OM 31	L AB		005H	
VICK C	Off Point (Section 32	Township	Range 28E	Lot	Feet 1678	From NOR	N/S	Feet 490	Fron WE	n E/W	County		
Latitu	ıde	32703	201		Longitu				***		NAD 83		
irst 1	ake Poin	t (FTP)			<u>'</u>								
UL H	Section 31	Township 17S	Range 28E	Lot	Feet 2269	From NOR	N/S TH	Feet 100	Fron EAS	n E/W ST	County EDDY		
Latitu	ide 32.791	.6221			Longitu	ude 104.2066481					NAD 83		
_ast T	ake Point	t (LTP)											
UL	Section 31	Township 17S	Range 28E	Lot 2	Feet 2288	From N/S NORTH	Feet 100	Froi W I	m E/W E ST	Count	ty Y		
Latitu		914957		1	Longitu					NAD	NAD 83		
		defining w	ell for the	Horizo	ontal Spa	cing Unit?							
f infil		nfill well? olease prov	ride API if	f availa	_l able, Ope	erator Nam	e and	well nun	nber fo	r Defi	ning well	for Horizonta	
ADI #			1										
API#													

KZ 06/29/2018



November 18, 2020

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

Re: Well Proposals – Marley State Com 31AB 001, 002H, 003H, 004H, 005H N/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 31AB 001H, with an approximate true vertical depth of 3,625', as a horizontal well in the Yeso formation (with an approximate measured depth of 8,600') and an estimated cost of \$3,534,711 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/18/2020
- Marley State Com 31AB 002H, with an approximate true vertical depth of 4,025', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,000') and an estimated cost of \$3,534,711 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/18/2020
- Marley State Com 31AB 003H, with an approximate true vertical depth of 3,625', as a horizontal well in the Yeso formation (with an approximate measured depth of 8,600') and an estimated cost of \$3,534,711 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/18/2020
- Marley State Com 31AB 004H, with an approximate true vertical depth of 4,025', as a horizontal well in the Yeso formation (with an approximate measured depth of 9,000') and an estimated cost of \$3,534,711 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/18/2020
- Marley State Com 31AB 005H, with an approximate true vertical depth of 3,625', as a horizontal well in the Yeso formation (with an approximate measured depth of 8,600') and an estimated cost of \$3,534,711 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/18/2020

To facilitate these wells and for efficient development, Longfellow proposes to form a Working Interest Unit (the "WIU") covering the N/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 November 18, 2020, 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 N/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, SEP Permian LLC 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")

Exhibit A-7

Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021 November 18, 2020 Marley State Com 31AB 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 \$1,500/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.Culpepper@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.Culpepper@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 972-590-9933 or by e-mail to Ryan.Culpepper@longfellowenergy.com.

Sincerely,	
LONGFELLOW ENERGY,	LP

111

Maly
Ryan Culpepper
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 N/2 of Section 31-17S-28E to Longfellow for \$1,500/ net acre, delivering our existing Net Revenue Interest.
AGREED to and ACCEPTED this day of, 2020.
SEP Permian LLC
By:
Print Name:

Title:___



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	001H	FIELD:	Loco Hills	AFE #: 411	DATE:	11/18/2020
LOCATION: SHL	1,325' FNL & 197' FWL, Sec	tion 32-17S-28E; BHL 3	357' FNL & 20	FWL, Section 31-17S-2	28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	t .
DEMARKS.	Logo Hills Project Eddy	County NM					DEVIEWED	DV.	

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1.00	** IDC - DRILLING **	DAILLING	COMPLETION	SUFFLEMENTAL
1-00 1-02	Rig Diesel	\$27,200		
1-02	Rig Rentals	\$27,200 \$22,500		
1-03	Location / Construction	\$25,500		
1-04	Drilling Insurance	\$5,000		
1-05	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$15,000		
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$17,730		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$36,000		
1-19	Drilling Overhead	\$25,000		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$93,000		
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		
1-26	Drilling Mud & Transportation	\$25,000		
1-27	Mud Diesel	\$0		
1-28	Mud Logging & Geo-steering	\$15,000		
1-29	Mud Remediation	\$45,000		
1-30	Drill String & BHA Rental	\$7,500		
1-31	Coring Drill Stem Tests	\$0 \$0		
1-32	Contract Daywork Drilling	- 50		
1-34	13.0 days @ \$13,700 / day	\$176,580		
1-34	Casing Crews, PU & LD	\$170,380		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$18,500		
1-42	Water - Fresh / Brine	\$50,000		
1-43	Waste Water / Mud Disposal	\$5,000		
1-44	Well Control Equipment	\$0		
1-46	Trash Trailer	\$2,000		
1-48	Surface Pipe Cementing	\$15,000		
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52	Production Casing Cementing	\$35,000		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$97,560		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,500		
1-64	Miscellaneous Drilling Welding During Drilling	\$10,000		
1-66 1-68	Miscellaneous Equipment Rentals	\$3,500 \$37,500		
1-08	Centralizers & Float Equipment	\$37,500		
				<u> </u>
T	OTAL INTANGIBLE DRILLING COSTS:	\$967,133		
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2.00		DRILLING	COMPLETION	SUITLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAI	R GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$22,295		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$99,760		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to	\$80,000		
	+/-10,151	,		
	G - SURFACE EQUIPMENT	¢10,000		
2-10	Casinghead(s) Liner Hanger & Packer	\$10,000		
2-12 2-14	Open Hole Packers and Sleeves	\$0 \$0		
2-14	Miscellaneous	\$0		
2-16 2-18	Flowline & Valves	\$0		
	TOTAL TANGIBLE DRILLING COSTS:			
	TOTAL TANGIBLE DRILLING COSTS:	\$212,055		
<u> </u>				



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	001H	FIELD:	Loco Hills	AFE #: 411	DATE:	11/18/2020
LOCATION: SHI	L 1,325' FNL & 197' FWL, Sect	ion 32-17S-28E; BHL 3	357' FNL & 20' I	FWL, Section 31-17S	-28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	Ł
DEMADES.	Loca Hills Project Eddy (County NM					DEVIEWED	RV.	

REMARK	S: Loco Hills Project - Eddy County, NM			REVIEWED BY:
	NUTL NOTE IT COMMENT TO THE COMME	DD1111110	COMPLETE	
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **			
			¢0	
3-02	Acidizing		\$0	
3-04	Fracturing		\$700,000	
3-06	Perforating		\$90,000	
3-08	Cased Hole Logging		\$5,000	
3-10	CO2 / Boosters		\$16,000	
3-12	Electrician / Electrical Services		\$36,840	
3-14	Equipment Rentals		\$5,000	
3-15	Rentals- Potties, Lights, Trash Trailers		\$7,500	
3-16	Frac Tank Rentals		\$11,000	
3-18	Restore Location		\$10,000	
3-20	Right - Of - Way		\$0	
3-22	Roustabout Crews		\$31,200	
3-23	Cement Plugs/Bridge Plugs		\$21,000	
3-24	Supervision		\$9,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$25,000	
3-28	Water Hauling - Fresh		\$457,200	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
3-30	Slickline Work		\$0	
3-31	Technical Labor		\$23,100	
	Reverse Unit / Power Swivel		\$30,000	
3-32			10.77	
3-33	Trucking- Kill Truck		\$0	
1	Completion Rig / Daywork			
3-34	4.0 days @ \$7,600 / day		\$30,000	
3-36	Anchors		\$2,500	
3-38	Drill bits, Unde-reamers, Etc.		\$5,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$12,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$6,000	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$95,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$5,000	
3-56	Contingencies Completion			
			\$171,948	
	FAL INTANGIBLE COMPLETION COSTS:		\$1,997,788	
		DRILLING		SUPPLEMENTAL
TOT	TAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS:	DRILLING	\$1,997,788	SUPPLEMENTAL
4-00	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION **	DRILLING	\$1,997,788	SUPPLEMENTAL
TOT	TAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS:	DRILLING	\$1,997,788	SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING	\$1,997,788	SUPPLEMENTAL
4-00 4-01 4-02	TAL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04	TALISTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-01 4-02 4-04 4-06	TALINTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496	SUPPLEMENTAL
4-00 4-01 4-01 4-02 4-04 4-06	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09	TAL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$50 \$0 \$0 \$10,496 \$4,872 \$50 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Electrical Equipment - Motors, Etc.	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$0 \$10,496	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$1,0496 \$4,872 \$0 \$0 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Electrical Equipment - Motors, Etc.	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$0 \$10,496	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16	ALINTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$1,909 \$10,496 \$4,872 \$0 \$4,272 \$5,340 \$13,251	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$5 \$0 \$4,272 \$5,340 \$13,251 \$25,666	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-20 4-22	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,872 \$5,340 \$113,251 \$25,666 \$24,113 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$10,496 \$4,872 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$0 \$55,254	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,872 \$5,340 \$113,251 \$25,666 \$24,113 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$1,0496 \$4,872 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$0 \$10,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$1,0496 \$4,872 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$0 \$10,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-32 4-34	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$5,254 \$175,000 \$0 \$10,000 \$4,044 \$5,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,004 \$5,000 \$4,272	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories	DRILLING	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$5,254 \$175,000 \$0 \$10,000 \$4,044 \$5,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,004 \$5,000 \$4,272	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI	Tubing Packers ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Dehydration Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:	\$1,179,188	\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$113,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$4,044 \$55,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,004 \$5,000 \$4,272	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST MMPLETION COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST MMPLETION COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	Tubing Packers ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Dehydration Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$113,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$4,044 \$55,000	SUPPLEMENTAL
400 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL DI TOTAL CO	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pumping Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	AL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pumping Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-38 4-40 TOTAL DR	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO TOTAL CO Company	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CC TOTAL DI	AL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DR TOTAL CO Company	TAL INTANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: BILLING COST DMPLETION COST COMPLETED WELL COST 1 by:		\$1,997,788 COMPLETION \$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$55,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427 \$3357,736	SUPPLEMENTAL



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	002H	FIELD:	Loco Hills	AFE #: 412	DATE:	11/18/2020
LOCATION: SH	L 1,350' FNL & 167' FWL, Sec	ction 32-17S-28E; BHL	839' FNL & 20' I	FWL, Section 31-1	7S-28E	PROPOSED TD:	9,000	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	4,025	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	₹
REMARKS:	Loco Hills Project - Eddy	County, NM					REVIEWED	BY:	

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **	Dideenio	COMPLETION	BOTT EEMENTINE
1-02	Rig Diesel	\$27,200		
1-02	Rig Rentals	\$22,500		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$15,000		
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$17,730		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$36,000		
1-19	Drilling Overhead	\$25,000		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision Hammer Rental / Supervision	\$93,000 \$0		
1-24 1-25	Cement Plug / Squeeze	\$0		-
1-25	Drilling Mud & Transportation	\$25,000		
1-20	Mud Diesel	\$0		
1-28	Mud Logging & Geo-steering	\$15,000		
1-29	Mud Remediation	\$45,000		
1-30	Drill String & BHA Rental	\$7,500		
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
	Contract Daywork Drilling			
1-34	13.0 days @ \$13,700 / day	\$176,580		
1-36	Casing Crews, PU & LD	\$15,000		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$18,500		
1-42	Water - Fresh / Brine	\$50,000		
1-43 1-44	Waste Water / Mud Disposal Well Control Equipment	\$5,000 \$0		
1-44	Trash Trailer	\$2,000		
1-48	Surface Pipe Cementing	\$15,000		
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52	Production Casing Cementing	\$35,000		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$97,560		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,500		
1-64	Miscellaneous Drilling	\$10,000		
1-66	Welding During Drilling	\$3,500		
1-68	Miscellaneous Equipment Rentals	\$37,500		
1-70	Centralizers & Float Equipment	\$26,000		
T	OTAL INTANGIBLE DRILLING COSTS:	\$967,133		
	TANCIDI E DDII I INC COCTO.	DRILLING	COMPLETION	CHIDDI PATEAURA I
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAI	R GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$22,295		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$99,760		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to	\$80,000		
	+/-10,151	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
2-10	G - SURFACE EQUIPMENT Casinghead(s)	\$10,000		
2-10	Casinghead(s) Liner Hanger & Packer	\$10,000	-	-
2-12	Open Hole Packers and Sleeves	\$0		
2-14	Miscellaneous	\$0		
2-18	Flowline & Valves	\$0		
	TOTAL TANGIBLE DRILLING COSTS:	\$212,055		
	TOTAL TANGIBLE DIGLETING COSTS:	\$212,033		
<u> </u>			<u> </u>	



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	002H	FIELD:	Loco Hills	AFE #: 412	DATE:	11/18/2020
LOCATION: SHI	L 1,350' FNL & 167' FWL, Sec	etion 32-17S-28E; BHL	839' FNL & 20' FW	L, Section 31-	-17S-28E	PROPOSED TD:	9,000	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	4,025	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.	Logo Hills Project Eddy	County NM					DEVIEWED	DV.	

REMARK	S: Loco Hills Project - Eddy County, NM			REVIEWED BY:
	INTANCIBLE COMBLETION COCTS.	DBHLING	COMPLETION	CUDDI EMENTAT
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **			
3-02	Acidizing		\$0	
3-04	Fracturing		\$700,000	
3-06	Perforating		\$90,000	
3-08	Cased Hole Logging		\$5,000	
3-10	CO2 / Boosters		\$16,000	
3-10	Electrician / Electrical Services		\$36,840	
3-14	Equipment Rentals		\$5,000	
3-15	Rentals- Potties, Lights, Trash Trailers		\$7,500	
3-16	Frac Tank Rentals		\$11,000	
3-18	Restore Location		\$10,000	
3-20	Right - Of - Way		\$0	
3-22	Roustabout Crews		\$31,200	
3-23	Cement Plugs/Bridge Plugs		\$21,000	
3-24	Supervision		\$9,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$25,000	
3-28	Water Hauling - Fresh		\$457,200	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
l l				
3-30	Slickline Work Technical Labor		\$0	
3-31			\$23,100	
3-32	Reverse Unit / Power Swivel		\$30,000	
3-33	Trucking- Kill Truck		\$0	
	Completion Rig / Daywork	l l		
3-34	<u>4.0</u> days @ <u>\$7,600</u> / day		\$30,000	
3-36	Anchors		\$2,500	
3-38	Drill bits, Unde-reamers, Etc.		\$5,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$12,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$6,000	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$95,000	
3-50	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$5,000	
3-56	Contingencies Completion		\$171,948	
TO	TAL INTANGIBLE COMPLETION COSTS:		\$1,997,788	
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
		DRILLING	COMPLETION	SUITEMENTAL
4-00	** IDC - COMPLETION **			
4-01	Tubing		\$20,000	
4-02	Packers		\$0	
4-04	Plugs		\$0	
4-06	Blast Joint		\$0	
4-08	Miscellaneous Completion Equipment		\$10,496	
4-09	Environmental Equipment		\$4,872	
4-10	Compression Equipment		\$0	
4-12	Dehydration Equipment Electrical Equipment - Motors, Etc.		\$0	-
4-14		<u> </u>	\$4,272	
4-15	Automation Equipment	<u> </u>	\$5,340	
4-16	Injection / Transfer Pump		\$13,251	
4-18	Meter & Meter Run		\$25,666	
4-20	Salt Water Tanks		\$24,113	
4-22	Production Tanks		\$0	
4-24	Separation Equipment		\$55,254	
4-26	Pump		\$175,000	
4-28	Pumping Unit		\$0	
4-30	Rod String		\$0	
4-32	Tubing Head		\$10,000	
4-34	Valves, Gauges and Miscellaneous		\$4,044	
4-38	Artificial Lift and Accessories		\$5,000	
4-40	Flowline Flow and Accessories		\$427	
		<u> </u>		<u> </u>
TC	OTAL TANGIBLE COMPLETION COSTS:		\$357,736	
TOTAL DI	RILLING COST	\$1,179,188		
TOTAL CO	OMPLETION COST		\$2,355,524	
TOTAL	L COMPLETED WELL COST		\$3,534,711	
			<i>pojec 1,.</i> 11	<u> </u>
	J L			
Approve	a dv:			
Approve	u by:			
Company				
Company Title:	y:			
Company	y:			



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	003H	FIELD:	Loco Hills	AFE #: 413	DATE:	11/18/2020
LOCATION: SH	L 1,375' FNL & 167' FWL, Section	on 32-17S-28E; BHL	1,320' FNL & 20	FWL, Section 31-1	17S-28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	
DEMADES.	Logo Hills Project Eddy C	ounty NM					DEVIEWED	DV.	

	INTANGIBLE DRILLING COSTS		DRILLING	COMPLETION	SUPPLEMENTAL
1.00		_		00.012.011011	SOTT ELEMENT IND
1-00	** IDC - DRILLING **	<u> </u>			l
1-02	Rig Diesel		\$27,200		
1-03	Rig Rentals		\$22,500		
1-04	Location / Construction		\$25,500		
1-05	Drilling Insurance		\$5,000		
1-06	Permits		\$12,000		
1-07	Title Opinion / Regulatory Fees		\$15,000		
	Survey				
1-08			\$7,500		
1-10	Right-of-Way		\$10,000		
1-12	Pit Lining / Fences		\$0		
1-14	Trucking		\$17,730		
1-16	Air / Gas Services		\$0		
1-18	Supervision		\$36,000		
1-19	Drilling Overhead		\$25,000		
1-20	Rig Mobilization / Demobilization		\$21,250		
1-22	Bits / Underreamers, Etc.		\$35,000		
1-23	Directional Tools & Supervision		\$93,000		
1-24	Hammer Rental / Supervision		\$0		
1-25	Cement Plug / Squeeze		\$0		
1-26	Drilling Mud & Transportation		\$25,000		
1-27	Mud Diesel	 	\$0		1
	Mud Logging & Geo-steering	 	\$15,000		1
1-28		<u> </u>			
1-29	Mud Remediation		\$45,000		
1-30	Drill String & BHA Rental	<u> </u>	\$7,500		
1-31	Coring		\$0		
1-32	Drill Stem Tests		\$0		
	Contract Daywork Drilling				
1-34	13.0 days @ \$13,700 / day		\$176,580		
1-36	Casing Crews, PU & LD		\$15,000		
	Fishing Tool Rentals		\$13,000		
1-38					
1-40	Rathole / Mousehole / Conductor		\$18,500		
1-42	Water - Fresh / Brine		\$50,000		
1-43	Waste Water / Mud Disposal		\$5,000		
1-44	Well Control Equipment		\$0		
1-46	Trash Trailer		\$2,000		
1-48	Surface Pipe Cementing		\$15,000		
1-50	Intermediate Pipe Cementing		\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)		\$24,063		
1-52	Production Casing Cementing		\$35,000		
1-56	Open-Hole Logging OH Logs & Core processing		\$0		
1-58	Drilling Contingencies		\$97,560		
1-60	Surface Damages		\$3,750		
1-62	Rotating Head & Expendables		\$2,500		
1-64	Miscellaneous Drilling	 	\$10,000		1
				-	1
1-66	Welding During Drilling		\$3,500		
1-68	Miscellaneous Equipment Rentals	<u> </u>	\$37,500		l
1-70	Centralizers & Float Equipment		\$26,000]
T	OTAL INTANGIBLE DRILLING COSTS:		\$967,133		
			+201,100	L	J
	TANCIBLE DBILLING COCTS.		DRILLING	COMPLETION	CUDDI EMENTAL
	TANGIBLE DRILLING COSTS:	<u> </u>	DAILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **	L			
TUBIII.AI	R GOODS (Surf., Inter., Prod., Tbg)				
TODOLAI	Size Grade Weight Thread Length				
2.02		<u> </u>	600.007		
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	<u> </u>	\$22,295		
2-04	7" L-80 32.00 BT&C +/- 4,100'	<u> </u>	\$99,760		l ————
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to		\$80,000		
2-00	5-1/2 L-80 20.00 B1&C +/-10,151'		\$60,000		
DRILLING	G - SURFACE EQUIPMENT				
2-10	Casinghead(s)	 	\$10,000	 	1 -
		—		-	1
2-12	Liner Hanger & Packer	<u> </u>	\$0		
2-14	Open Hole Packers and Sleeves	<u> </u>	\$0		l ————
2-16	Miscellaneous	L	\$0		
2-18	Flowline & Valves		\$0		
	TOTAL TANGIBLE DRILLING COSTS:	_	\$212,055		
	TOTAL TANGIBLE DRILLING COSTS:		φ212,033	 	┨
		<u> </u>		[]



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	003H	FIELD:	Loco Hills	AFE #: 413	DATE:	11/18/2020
LOCATION: SHI	L 1,375' FNL & 167' FWL, Sectio	n 32-17S-28E; BHL	1,320' FNL & 20)' FWL, Section 31-1'	7S-28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.	Logo Hills Project Eddy Co	unty NM					DEVIEWED	DV.	1

	S: Loco Hills Project - Eddy County, NM			
	INTERNATION COMPLETED COORTS	DBULLING	COMPLETION	CLIDDLE MENTELL
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **			
3-02	Acidizing		\$0	
3-04	Fracturing		\$700,000	
3-06	Perforating		\$90,000	
3-08	Cased Hole Logging		\$5,000	
3-10	CO2 / Boosters		\$16,000	
3-12	Electrician / Electrical Services		\$36,840	
3-14	Equipment Rentals		\$5,000	
3-15	Rentals- Potties, Lights, Trash Trailers	-	\$7,500	
3-16	Frac Tank Rentals		\$11,000	
3-18	Restore Location		\$10,000	
3-20	Right - Of - Way		\$0	
3-22	Roustabout Crews		\$31,200	
3-23	Cement Plugs/Bridge Plugs		\$21,000	
	Supervision Supervision		\$9,000	
3-24				
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$25,000	
3-28	Water Hauling - Fresh		\$457,200	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
3-30	Slickline Work		\$0	
	Technical Labor	l		
3-31		<u> </u>	\$23,100	
3-32	Reverse Unit / Power Swivel		\$30,000	
3-33	Trucking- Kill Truck		\$0	
	Completion Rig / Daywork			
3-34	4.0 days @ \$7,600 / day		\$30,000	
3-36	Anchors		\$2,500	
3-38	Drill bits, Unde-reamers, Etc.		\$5,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$12,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$6,000	
				-
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$95,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$5,000	
3-56	Contingencies Completion		\$171,948	
TO	TAL INTANGIBLE COMPLETION COSTS:		\$1,997,788	
101	THE HATHINGIBLE COMMITTEE TON COSTS:		\$1,997,700	
101		DRILLING		SUPPLEMENTAL
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
4-00		DRILLING		SUPPLEMENTAL
4-00	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION **	DRILLING		SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING		SUPPLEMENTAL
4-00 4-01 4-02	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers	DRILLING	**COMPLETION	SUPPLEMENTAL
4-00 4-01 4-02 4-04	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs	DRILLING	\$20,000 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint	DRILLING	\$20,000 \$0 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint	DRILLING	\$20,000 \$0 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment - Motors, Etc.	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$5,340	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$1,5340 \$13,251	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$1,5340 \$13,251	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$0 \$4,272 \$5,340 \$13,251 \$25,666	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$2 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-22 4-24	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$2,5340 \$13,251 \$25,666 \$24,113 \$0 \$55,254	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-24	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$5,552,544	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$0 \$4,272 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$5,55,254 \$175,000 \$0 \$10,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$15,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pumpi Pumpi Pumpi Pumpi Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$4,044 \$5,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories	DRILLING	\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$15,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$4,044 \$5,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:	\$1,179,188	\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment Hipection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$4,044 \$5,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST MMPLETION COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:		\$20,000 \$0 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$357,736	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST MMPLETION COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DO TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline VIAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DO TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline VIAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DI TOTAL CO	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline VIAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DO TOTAL CO TOTA	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline VIAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DO TOTAL CO TOTA	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: BILLING COST DMPLETION COST COMPLETED WELL COST 1 by:		\$20,000 \$0 \$0 \$0 \$10,496 \$4,872 \$5,340 \$13,251 \$25,666 \$24,113 \$0 \$55,254 \$175,000 \$0 \$10,000 \$4,044 \$55,000 \$427	SUPPLEMENTAL



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	. 004Н	FIELD:	Loco Hills	AFE #: 414	DATE:	11/18/2020
LOCATION: SHI	L 1,400' FNL & 167' FWL, Section	on 32-17S-28E; BHL	1,802' FNL &	& 20' FWL, Section 31-1	17S-28E	PROPOSED TD:	9,000	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	4,025	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.	Loco Hills Project Eddy C	ounty NM					DEVIEWED	DV.	

	INTANGIBLE DRILLING COSTS	i F	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **	 	DidLario	COMPLETION	BOTT ELIMENTIE
1-02	Rig Diesel	F	\$27,200		
1-03	Rig Rentals	<u> </u>	\$22,500		
1-04	Location / Construction	<u> </u>	\$25,500		
1-05	Drilling Insurance	<u> </u>	\$5,000		
1-06	Permits	<u> </u>	\$12,000		
1-07	Title Opinion / Regulatory Fees	<u> </u>	\$15,000		
1-08	Survey	<u> </u>	\$7,500		
1-10	Right-of-Way		\$10,000		
1-12	Pit Lining / Fences		\$0		
1-14	Trucking		\$17,730		
1-16	Air / Gas Services		\$0		
1-18	Supervision		\$36,000		
1-19	Drilling Overhead		\$25,000		
1-20	Rig Mobilization / Demobilization		\$21,250		
1-22	Bits / Underreamers, Etc.		\$35,000		
1-23	Directional Tools & Supervision		\$93,000		
1-24	Hammer Rental / Supervision		\$0		
1-25	Cement Plug / Squeeze		\$0		
1-26	Drilling Mud & Transportation		\$25,000		
1-27	Mud Diesel		\$0		
1-28	Mud Logging & Geo-steering		\$15,000		
1-29	Mud Remediation		\$45,000		
1-30	Drill String & BHA Rental		\$7,500		
1-31	Coring		\$0		
1-32	Drill Stem Tests		\$0		
	Contract Daywork Drilling				
1-34	13.0 days @ \$13,700 / day	L	\$176,580		
1-36	Casing Crews, PU & LD	L	\$15,000		
1-38	Fishing Tool Rentals	L	\$0		
1-40	Rathole / Mousehole / Conductor	L	\$18,500		
1-42	Water - Fresh / Brine	L	\$50,000		
1-43	Waste Water / Mud Disposal	L	\$5,000		
1-44	Well Control Equipment	L	\$0		
1-46	Trash Trailer		\$2,000		
1-48	Surface Pipe Cementing	L	\$15,000		
1-50	Intermediate Pipe Cementing	L	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	<u> </u>	\$24,063		
1-52	Production Casing Cementing	L	\$35,000		
1-56	Open-Hole Logging OH Logs & Core processing	<u> </u>	\$0		
1-58	Drilling Contingencies	<u> </u>	\$97,560		
1-60	Surface Damages	-	\$3,750		
1-62	Rotating Head & Expendables	<u> </u>	\$2,500		
1-64	Miscellaneous Drilling		\$10,000		l
1-66	Welding During Drilling		\$3,500		
1-68	Miscellaneous Equipment Rentals		\$37,500 \$26,000		
1-70	Centralizers & Float Equipment	! <u>L</u>			
TO	OTAL INTANGIBLE DRILLING COSTS:	l L	\$967,133] [
	TANGIBLE DRILLING COSTS:	L	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **				
TUBULAR	R GOODS (Surf., Inter., Prod., Tbg)	Ī			
	Size Grade Weight Thread Length				
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	<u> </u>	\$22,295		
2-04	7" L-80 32.00 BT&C +/- 4,100'		\$99,760		
2.06	5.1.2" x 00 PTG C +/-4,100' down to		#00.000		
2-06	5-1/2" L-80 20.00 BT&C +/-10,151'		\$80,000		
DRILLING	G - SURFACE EQUIPMENT	<u> </u>			
2-10	Casinghead(s)	<u> </u>	\$10,000		
2-12	Liner Hanger & Packer		\$0		
2-14	Open Hole Packers and Sleeves		\$0		
2-16	Miscellaneous		\$0		
2-18	Flowline & Valves		\$0		
	TOTAL TANGIBLE DRILLING COSTS:	i F	\$212,055		1
	THE THEODER PROBLEM COSTS.	⊢	φ212,033		1
L		L		<u> </u>	J



OPERATOR:	Longfellow Energy, LP									
LEASE:	Marley State Com 31AB		WELL NO	. 004	I F	IELD:	Loco Hills	AFE #: 414	DATE:	11/18/2020
LOCATION: SHI	L 1,400' FNL & 167' FWL, Sec	tion 32-17S-28E; BHL	1,802' FNL &	& 20' FWL, Sec	ion 31-17S-2	8E	PROPOSED TD:	9,000	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	4,02	5 ft	TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft	TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.	Loca Hills Project Eddy	County NM						DEVIEWED	RV.	

	INTANGIBLE COMPLETION COSTS:
3-00	** IDC - COMPLETION **
-02	Acidizing
-04	Fracturing
3-06	Perforating
-08	Cased Hole Logging
3-10	CO2 / Boosters
3-12	Electrician / Electrical Services
-14	Equipment Rentals
-15	Rentals- Potties, Lights, Trash Trailers
3-16	Frac Tank Rentals
3-18	Restore Location
3-20	Right - Of - Way
3-22	Roustabout Crews
3-23	Cement Plugs/Bridge Plugs
3-24 3-25	Supervision Completion Overhead
	Trucking Trucking
3-26 3-27	Water Transfer- 10", Poly, Fill Pit
3-28	Water Hauling - Fresh
3-29	SW Disposal- Hauling, Paid Disposal, Poly Slickline Work
3-30 3-31	Technical Labor
3-31	Reverse Unit / Power Swivel
3-32	Trucking- Kill Truck
3-33	Completion Rig / Daywork
3-34	4.0 days @ \$7,600 / day
3-34	4.0 days @ \$7,000 / day Anchors
3-38	Drill bits, Unde-reamers, Etc.
3-40	Coiled Tubing Unit
3-42	Completion Fluids - Mud, Etc.
3-44	DH Tool Rental
3-46	Fishing Tool Rental
3-48	Tubing Testing & Inspection
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator
3-52	Well Testing Equipment & Labor
3-54	Miscellaneous Completion
3-56	Contingencies Completion
	TAL INTANGIBLE COMPLETION COSTS:
101	ALTIVIANOIBLE COMPLETION COSTS.
	TANGIBLE COMPLETION COSTS:
4-00	** IDC - COMPLETION **
4-01	Tubing
1-02	Packers
1-04	Plugs
	Blast Joint
	Blast Joint Miscellaneous Completion Equipment
4-08	Miscellaneous Completion Equipment
4-08 4-09	Miscellaneous Completion Equipment Environmental Equipment
4-08 4-09 4-10	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment
4-08 4-09 4-10 4-12	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment
1-08 1-09 1-10 1-12 1-14	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.
1-08 1-09 1-10 1-12 1-14 1-15	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment
4-08 4-09 4-10 4-12 4-14 4-15 4-16	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.
I-08 I-09 I-10 I-12 I-14 I-15 I-16	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump
I-08 I-09 I-10 I-12 I-14 I-15 I-16 I-18 I-20	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump
4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-30 4-32	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head
-08 -09 -10 -12 -14 -15 -16 -18 -20 -22 -24 -26 -28 -30 -32 -34 -38	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous
-08 -09 -10 -12 -14 -15 -16 -18 -20 -22 -24 -26 -28 -30 -32 -34 -38 -40	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
008 009 -10 -12 -14 -15 -16 -18 -18 -20 -22 -24 -26 -28 -30 -33 -33 -40 -70	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
I-08 I-09 I-10 I-12 I-14 I-15 I-16 I-18 I-20 I-22 I-24 I-28 I-30 I-32 I-34 I-38 I-40	Miscellaneous Completion Equipment Environmental Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS:
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TO	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
1-08 1-09 1-10 1-12 1-14 1-15 1-16 1-18 1-20 1-22 1-24 1-24 1-28 1-30 1-32 1-34 1-38 1-40 TO TAL DR	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS: RILLING COST MPLETION COST
-08 -09 -10 -12 -14 -15 -16 -18 -220 -22 -24 -26 -28 -30 -32 -33 -34 -38 -40	Miscellaneous Completion Equipment Environmental Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS:
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL DR	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DITAL TANGIBLE COMPLETION COSTS: BILLING COST DMPLETION COST
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-30 4-32 4-34 4-38 4-40 TAL DE	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DITAL TANGIBLE COMPLETION COSTS: BILLING COST DMPLETION COST
4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-24 4-28 4-30 4-32 4-34 4-38 4-40 TO TAL DK FAL CO TAL Proveece	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline PTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST 1 by:
-08 -09 -10 -12 -14 -15 -16 -18 -20 -22 -24 -26 -228 -30 -32 -33 -34 -40 	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline PTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST 1 by:
08 09 10 12 14 14 15 16 18 20 22 24 24 26 28 33 34 33 40 TO TAL	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline PTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST 1 by:
TO DE CO	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pump Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS: BILLING COST DMPLETION COST COMPLETED WELL COST In by:
08 09 10 10 11 12 11 14 11 15 11 16 11 18 12 12 11 14 11 15 11 16 11 18 12 12 12 12 14 12 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline PTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST 1 by:



OPERATOR:	Longfellow Energy, LP								
LEASE:	Marley State Com 31AB		WELL NO.	005H	FIELD:	Loco Hills	AFE #: 415	DATE:	11/18/2020
LOCATION: SHI	L 1,425' FNL & 167' FWL, Section	n 32-17S-28E; BHL	2,284' FNL & 2	20' FWL, Section 31-17	7S-28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:					ft TVD	HORIZONTAL	X	WORKOVER	
DEMADES.	Logo Hills Project Eddy Co	unty NM					DEVIEWED	DV.	

	INTANGIBLE DRILLING COSTS		DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **		JAGILLA IVO	COMPLETION	BOTT EDMENTITE
1-02	Rig Diesel		\$27,200		
1-03	Rig Rentals		\$22,500		
1-04	Location / Construction		\$25,500		
1-05	Drilling Insurance		\$5,000		
1-06	Permits		\$12,000		
1-07	Title Opinion / Regulatory Fees		\$15,000		
1-08	Survey		\$7,500		
1-10	Right-of-Way		\$10,000		
1-12	Pit Lining / Fences		\$0		
1-14	Trucking		\$17,730		
1-16	Air / Gas Services		\$0		
1-18	Supervision		\$36,000		
1-19	Drilling Overhead		\$25,000		
1-20	Rig Mobilization / Demobilization		\$21,250		
1-22	Bits / Underreamers, Etc.		\$35,000		
1-23	Directional Tools & Supervision		\$93,000		
1-24	Hammer Rental / Supervision		\$0		
1-25	Cement Plug / Squeeze		\$0		
1-26	Drilling Mud & Transportation		\$25,000		
1-27	Mud Diesel		\$0		
1-28	Mud Logging & Geo-steering		\$15,000		
1-29	Mud Remediation		\$45,000		
1-30	Drill String & BHA Rental		\$7,500		
1-30	Coring		\$0	<u> </u>	
1-32	Drill Stem Tests		\$0		
1 32	Contract Daywork Drilling		ΨΟ		
1-34	13.0 days @ \$13,700 / day		\$176,580		
1-36	Casing Crews, PU & LD		\$15,000		
1-38	Fishing Tool Rentals		\$0		
1-40	Rathole / Mousehole / Conductor		\$18,500		
1-42	Water - Fresh / Brine		\$50,000		
1-43	Waste Water / Mud Disposal		\$5,000		
1-44	Well Control Equipment		\$0		
1-46	Trash Trailer		\$2,000		
1-48	Surface Pipe Cementing		\$15,000		
1-50	Intermediate Pipe Cementing		\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)		\$24,063		
1-52	Production Casing Cementing		\$35,000		
1-56	Open-Hole Logging OH Logs & Core processing		\$0		
1-58	Drilling Contingencies		\$97,560		
1-60	Surface Damages		\$3,750		
1-62	Rotating Head & Expendables		\$2,500		
1-64	Miscellaneous Drilling		\$10,000		
1-66	Welding During Drilling		\$3,500		
1-68	Miscellaneous Equipment Rentals		\$37,500		
1-70	Centralizers & Float Equipment		\$26,000		
	OTAL INTANGIBLE DRILLING COSTS:	<u> </u>			
10	OTAL INTANGIBLE DRILLING COSTS:	<u> </u>	<i>\$967,133</i>		
	TANGIBLE DRILLING COSTS:		DRILLING	COMPLETION	SUPPLEMENTAL
2.00			JALLANO	COMPLETION	SOFFEEMENTAL
2-00	** IDC - DRILLING **	<u> </u>			
TUBULAR	R GOODS (Surf., Inter., Prod., Tbg)				
	Size Grade Weight Thread Length				
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'		\$22,295		
2-04	7" L-80 32.00 BT&C +/- 4,100'		\$99,760		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to		\$80,000		
	+/-10,151		φου,000		
DRILLING	G - SURFACE EQUIPMENT				
2-10	Casinghead(s)		\$10,000		
2-12	Liner Hanger & Packer		\$0		
2-14	Open Hole Packers and Sleeves		\$0		
2-16	Miscellaneous		\$0		
2-18	Flowline & Valves		\$0		
	TOTAL TANGIBLE DRILLING COSTS:		\$212,055		
	THE ENGINEED PRODUCTION OF STREET	 	φωτωςυσσ		
		<u> </u>			



OPERATOR:	Longfellow Energy, LP									
LEASE:	Marley State Com 31AB		WELL NO). (005H	FIELD:	Loco Hills	AFE #: 415	DATE:	11/18/2020
LOCATION: SHL	. 1,425' FNL & 167' FWL, Sec	tion 32-17S-28E; BHL	2,284' FNL	& 20' FWL,	Section 3	I-17S-28E	PROPOSED TD:	8,600	ft (MD)	
OBJECTIVE:	Yeso Formation	Estimated	@	3	3,625	ft TVD	VERTICAL		RE-ENTRY	
OBJECTIVE:						ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.	Logo Hills Project Eddy	County NM						DEVIEWED	DV.	

	INTANGIBLE COMPLETION COSTS:
3-00	** IDC - COMPLETION **
3-02	Acidizing
3-04	Fracturing
3-06	Perforating
3-08	Cased Hole Logging
3-10	CO2 / Boosters
3-12	Electrician / Electrical Services
3-14	Equipment Rentals
3-14	Rentals- Potties, Lights, Trash Trailers
3-15	Frac Tank Rentals
	Restore Location
3-18 3-20	
	Right - Of - Way
3-22	Roustabout Crews
3-23	Cement Plugs/Bridge Plugs
3-24	Supervision
3-25	Completion Overhead
3-26	Trucking
3-27	Water Transfer- 10", Poly, Fill Pit
3-28	Water Hauling - Fresh
3-29	SW Disposal- Hauling, Paid Disposal, Poly
3-30	Slickline Work
3-31	Technical Labor
3-32	Reverse Unit / Power Swivel
3-33	Trucking- Kill Truck
	Completion Rig / Daywork
3-34	4.0 days @ \$7,600 / day
3-34	Anchors
3-38	Drill bits, Unde-reamers, Etc.
3-38	Coiled Tubing Unit
	Completion Fluids - Mud, Etc.
3-42	
3-44	DH Tool Rental
3-46	Fishing Tool Rental
3-48	Tubing Testing & Inspection
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator
3-52	Well Testing Equipment & Labor
3-54	Miscellaneous Completion
3-56	Contingencies Completion
TOT	TAL INTANGIBLE COMPLETION COSTS:
	TANGIBLE COMPLETION COSTS:
4-00	** IDC - COMPLETION **
4-01 4-02	Tubing Packers
	Packers
1-04	Plugs
1-06	Blast Joint
1-08	Miscellaneous Completion Equipment
4-09	
	Environmental Equipment
	Compression Equipment
	Compression Equipment Dehydration Equipment
-12	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.
l-12 l-14	Compression Equipment Dehydration Equipment
4-12 4-14 4-15	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.
4-12 4-14 4-15 4-16	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment
4-12 4-14 4-15 4-16 4-18	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run
4-12 4-14 4-15 4-16 4-18 4-20	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks
4-12 4-14 4-15 4-16 4-18 4-20 4-22	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24	Compression Equipment Dehydration Equipment - Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30	Compression Equipment Dehydration Equipment - Motors, Etc. Automation Equipment - Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String
4-22 4-24 4-26 4-28 4-30 4-32	Compression Equipment Dehydration Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous
4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories
-12 -14 -15 -16 -18 -20 -22 -24 -26 -28 -30 -32 -34 -38 -40	Compression Equipment Dehydration Equipment - Motors, Etc. Automation Equipment - Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
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-12 -14 -15 -16 -18 -20 -22 -24 -26 -28 -30 -32 -34 -38 -40	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
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4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TAL DE	Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline
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4-12 4-14 4-15 4-16 4-18 4-20 4-22 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TAL DE	Compression Equipment Dehydration Equipment - Motors, Etc. Automation Equipment - Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST
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12 14 15 16 18 20 22 24 26 28 83 33 23 34 40 <i>TO</i> <i>L DP</i> <i>L CO</i>	Compression Equipment Dehydration Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS: RILLING COST DMPLETION COST L COMPLETED WELL COST d by:
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SHARON T. SHAHEEN

Direct: (505) 986-2678

Email: <u>sshaheen@montand.com</u>

www.montand.com

April 16, 2021

Via U.S. Certified Mail, return receipt requested

TO: ALL INTEREST OWNERS ON ATTACHED LIST

Re: Case No. 21860 – Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico – Marley State Com 31 AB 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. 21860. 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 N/2 of Section 31, Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Applicant proposes to drill the following wells: (1) Marley State Com 31 AB 001H well, to be horizontally drilled from an approximate surface hole location 1578' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 361' FNL and 100' FWL of Section 31, T17S-R28E; (2) Marley State Com 31 AB 002H well, to be horizontally drilled from an approximate surface hole location 1603' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 843' FNL and 100' FWL of Section 31, T17S-R28E; (3) Marley State Com 31 AB 003H well, to be horizontally drilled from an approximate surface hole location 1628' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1325' FNL and 100' FWL of Section 31, T17S-R28E; (4) Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1653' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1807' FNL and 100' FWL of

> Exhibit A-8 Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021

All Interest Owners April 16, 2021 Page 2

Section 31, T17S-R28E; and (5) **Marley State Com 31 AB 005H** well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 2288' FNL and 100' FWL of Section 31, T17S-R28E. The completed intervals and first and last take points for all wells will meet the setback requirements set forth in the statewide rules for horizontal oil wells. A depth severance exists in the NW/4 NW4 of Section 31. 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 15 miles west of Loco Hills, 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 **May 6, 2021** 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 **April 28, 2021**, and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement by **April 29, 2021**, 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,

/s/ Sharon T. Shaheen Sharon T. Shaheen

STS/lt Enclosures

cc: Titus Oil & Gas Production, LLC, via email

EXHIBIT A

INTEREST OWNERS

Working Interest Party(ies):

Contango Resources, Inc. 211 E. 7th St. Suite 620 Austin, TX 78702

Apache Corporation 2000 Post Oak Blvd. Suite 100 Houston, TX 77056

Joan Hudson Moore 660 Camino De Los Mares 334

San Clemente, CA 92673-1800

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

Mark Heinen 122 Mountain Spring Dr. Borne, TX 78006

Greg Benton P.O. Box 51034 Midland, TX 79710

V-F Petroleum, Inc. 500 W. Texas Ave. Suite 350 Midland, TX 79710

Overriding Royalty Interest Owners:

Apache Corporation 2000 Post Oak Blvd. Suite 100 Houston, TX 77056-4400

Manix Royalty, Ltd. 3300 N. A Street, Bldg. 8 Suite 106 Midland, TX 79705 EOG Resources, Inc. 5509 Champions Dr. Midland, TX 79702

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

Jonel Susan Grasso Howard 11 Ocean Ridge Laguna Niguel, CA 92677-9231

Mel Riggs 2513 Regency Oaks Ct. Midland, TX 79705

Debra Latham 954 River Forest Dr. New Braunfels, TX 78132

WPX Energy Permian, LLC 3500 One Williams Center Tulsa, OK 74172

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

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

John & Theresa Hillman Family Properties, LP 3300 N. A Street, Bldg. 8 Suite 106 Midland, TX 79705 ZPZ Delaware I, LLC 2000 Post Oak Blvd.

Suite 100

Houston, TX 77056

Read & Stevens, Inc. 400 N. Pennsylvania Ave. Roswell, NM 88201

Jane Ann Hudson Davis 6770 Wolf Creek Ct. NE Rio Rancho, NM 87144-5708

Mark Tisdale 6951 Sunrise Cr. Midland, TX 79707

Debra Latham Trustee of the Latham Family Trust 954 River Forest Dr. New Braunfels, TX 78132

Devon Energy, Inc. 333 West Sheridan Ave. Oklahoma City, OK 73102-5015

OXY USA WTP, LP 5 Greenway Plaza Suite 110 Houston, TX 77046

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

Nestegg Energy Corporation 2308 Sierra Vista Rd. Artesia, NM 88210 Platform Energy III 810 Texas Ave. Lubbock, TX 79401 EnPlat III 1200 Summit Ave. Suite 350 Fort Worth, TX 76102 Occidental Permian, LP 5 Greenway Plaza Suite 110 Houston, TX 77046

Additional Interested Party(ies):

Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220

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

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

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

Case No. 21860	
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APPLICATION

Longfellow Energy, LP ("Longfellow"), through its undersigned counsel Montgomery & Andrews, P.A. (Sharon T. Shaheen and John F. McIntyre), hereby files this application with the Oil Conservation Division pursuant to the provisions of NMSA 1978, § 70-2-17, for 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 N/2 of Section 31, Township 17 South, Range 28 East, NMPM, 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 1-mile wells in the proposed HSU:
 - Marley State Com 31 AB 001H well, to be horizontally drilled from an approximate surface hole location 1578' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 361' FNL and 100' FWL of Section 31, T17S-R28E;
 - Marley State Com 31 AB 002H well, to be horizontally drilled from an approximate surface hole location 1603' FNL and 490' FWL of Section 32, T17S-

R28E, to an approximate bottom hole location 843' FNL and 100' FWL of Section 31, T17S-R28E;

- Marley State Com 31 AB 003H well, to be horizontally drilled from an approximate surface hole location 1628' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1325' FNL and 100' FWL of Section 31, T17S-R28E;
- Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1653' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 1807' FNL and 100' FWL of Section 31, T17S-R28E; and
- Marley State Com 31 AB 005H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 32, T17S-R28E, to an approximate bottom hole location 2288' FNL and 100' FWL of Section 31, T17S-R28E.
- 3. The completed intervals and first and last take points for all wells will meet the setback requirements set forth in the statewide rules for horizontal oil wells.
- 4. Total vertical depths will range from 3,625'-4,025'. A depth severance exists in the NW/4 NW4 of Section 31, T17S-R28E where Contango Resources owns 87.5% of the 40 acre tract above 3,560' and EOG owns 87.5% below 3,560'. The other 12.5% in this tract is owned by Read & Stevens, which owns all depths within the Yeso.
- 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 May 6, 2021, and that, after notice and hearing as required by law, the Division enter an order:

- A. Creating a standard 320-acre, more or less, HSU comprised of the N/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 following 1-mile wells in the HSU: (1) Marley State Com 31AB 001H, (2) Marley State Com 31AB 002H, (3) Marley State Com 31AB 003H, (4) Marley State Com 31AB 004H, and (5) Marley State Com 31AB 005H.
 - 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

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.

/s/ Sharon T. Shaheen
Sharon T. Shaheen
John F. McIntyre
Post Office Box 2307
Santa Fe, NM 87504-2307
(505) 986-2678
sshaheen@montand.com
jmcintyre@montand.com

Attorneys for Longfellow Energy, LP

TAB 5

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

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

Case No. 21860

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 affidavit, which is based on my personal knowledge.
- 2. I am a petroleum geologist employed by Longfellow Energy, LP ("Longfellow") and am familiar with the subject application and geology involved.
- 3. This affidavit is submitted in connection with the filing by Longfellow of the above-referenced compulsory pooling application pursuant to 19.15.4.12(A)(1) NMAC.
- 4. 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 also have experience working carbonate projects in Albania and Bulgaria through our affiliated international company, TransAtlantic Petroleum.

Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021

- 1. **Exhibit B-1a and Exhibit B-1b** includes a geological summary for the proposed horizontal spacing unit ("HSU") and related wells.
- 2. **Exhibit B-2** is a regional Yeso structure map with 50' contour intervals, which illustrates the location of the HSU by a red outline.
- 3. **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".
- 4. **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.
- 5. **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".
- 6. **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 1,550'. This gross thickness is being calculated from the top of the Paddock to the top of the Tubb within the Yeso formation.
- 7. **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.
- 8. The measured depths and true vertical depths for each well are approximately as follows:

	MD	TVD
Marley State Com 31 AB 001H	9,550'	3,650'
Marley State Com 31 AB 002H	10,050'	4,150'
Marley State Com 31 AB 003H	9,550'	3,650'
Marley State Com 31 AB 004H	10,050'	4,150'
Marley State Com 31 AB 005H	9,550'	3,650'

- 9. The true vertical landing depth of the target formation is approximately 3,650' for the bench 1 "Paddock" wells (001H, 003H, 005H), and approximately 4,150' for the bench 2 "Blinebry" wells (002H, 004H) based on the structural cross section, Exhibit B-6.
- 10. **Exhibit B-8** is a map indicating the location of Longfellow's proposed Marley wells and the location of the vertical wells operated by Contango Oil & Gas. As is evident therein, Contango operates 4 vertical wells in the NW/4 NW/4 of Section 31, the Enron State 20 (30015423720000), Enron State 4 (30015321620000), Enron State 15 (30015369780000), and Enron State 16 (30015385120000) (collectively, "Vertical Wells"). Exhibit B-8 shows the active well perforation intervals for the Vertical Wells. A comparison of the well perforation intervals with Longfellow's projected total vertical depths indicates that the Vertical Wells produce from shallower depths than that proposed for the Marley wells.
 - 11. 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.

- 12. The Exhibits to this Affidavit were prepared by me, or compiled from Longfellow's business records.
- 13. The granting of the application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
 - 14. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT	SAYETH NAUGHT
-----------------	---------------

STATE OF TEXAS

)ss COUNTY OF DALLAS

Subscribed to and sworn before me this 15th day of June, 2021.

Notary Public

My Commission expires _____ 5/10/2022

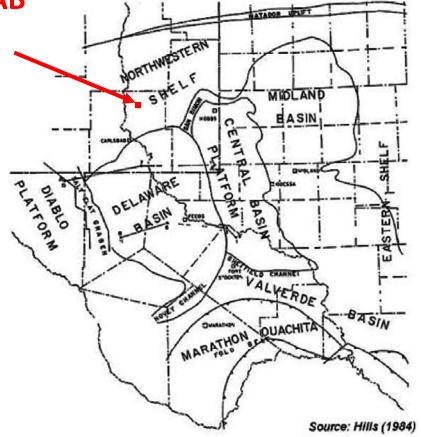
RYAN PALMER REYNOLDS Notary Public, State of Texas Comm. Expires 05-10-2022 Notary ID 131562762

TAB 6

Regional View of the NW Shelf

Paleogeography of Permian Basin region in Early Permian





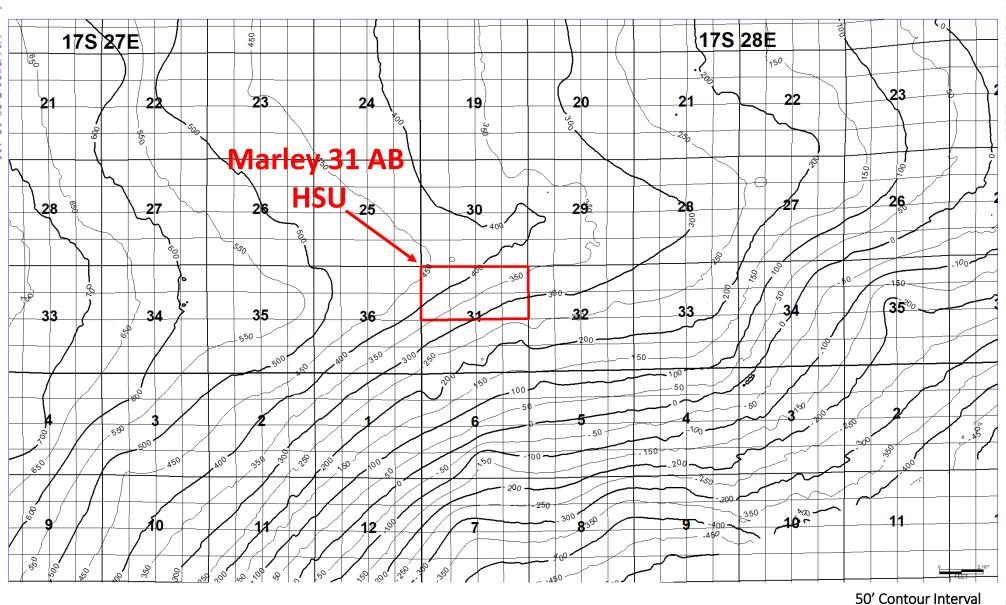
NW Shelf Stratigraphic Column

Age		Unit Name		HC's
Permian 289-248 MYA		Rustler		
	Ochoan	Salado Tansill		
		Eumont	Yates	• 🌣
			Seven Rivers	•
			Queen	• 🌣
		Grayburg		٠
	Guadalupian	San Andres		•
			Glorieta	•
		osa Ju	Paddock	٠
			Blinebry	♦
			Tubb	• *
			Drinkard	♦
	Leonardian	Abo		❖
	Wolfcampian		Wolfcamp	
Pennsylvanian 320-289 MYA		Strawn Atoka Morrow		•
				• 🌣
				☆

Targeted Zones

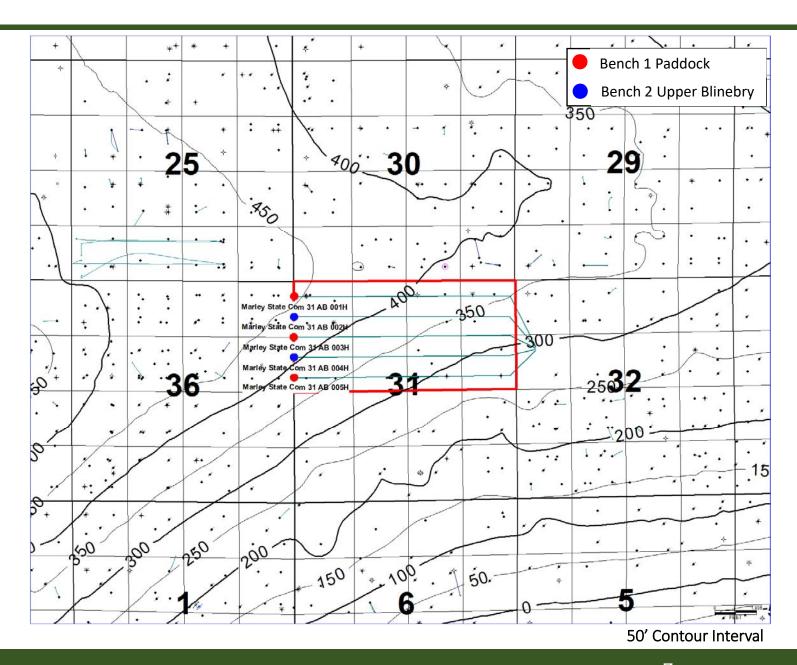


Paddock Structure (TVDSS)

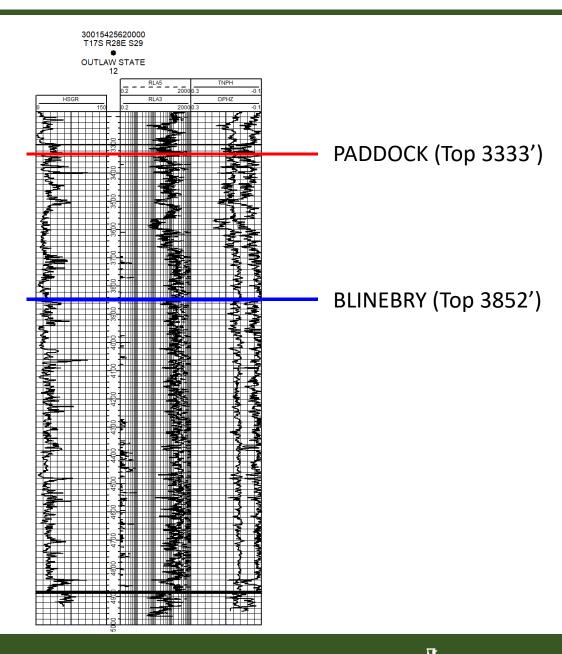




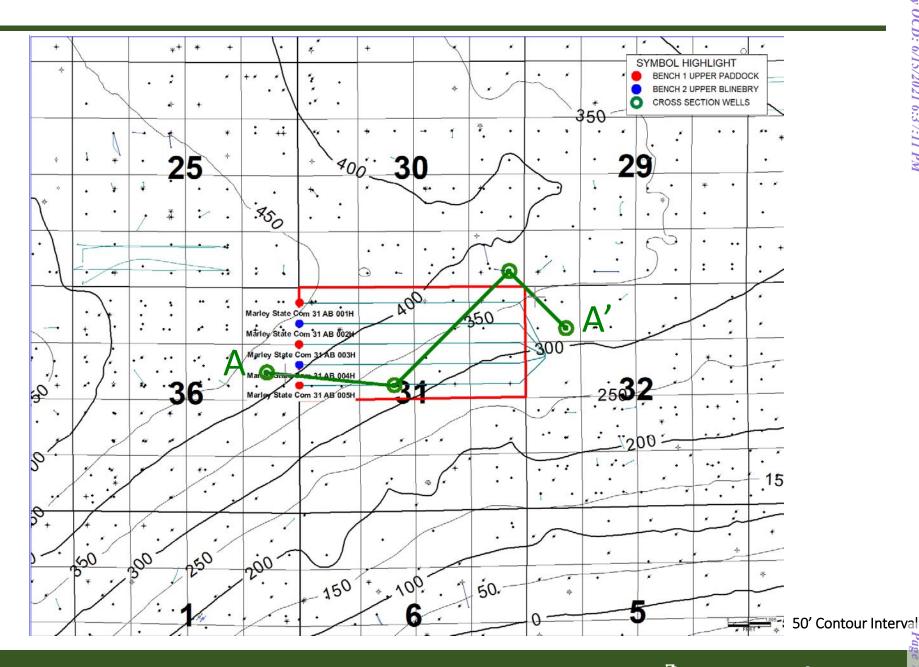
Paddock Structure (TVDSS)



NW Shelf Yeso Type Log with Target Intervals



Marley 31 AB Cross Section Line



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100 -

-100 -

-200 -

-300 -

-400 -

-500 -

-600 -

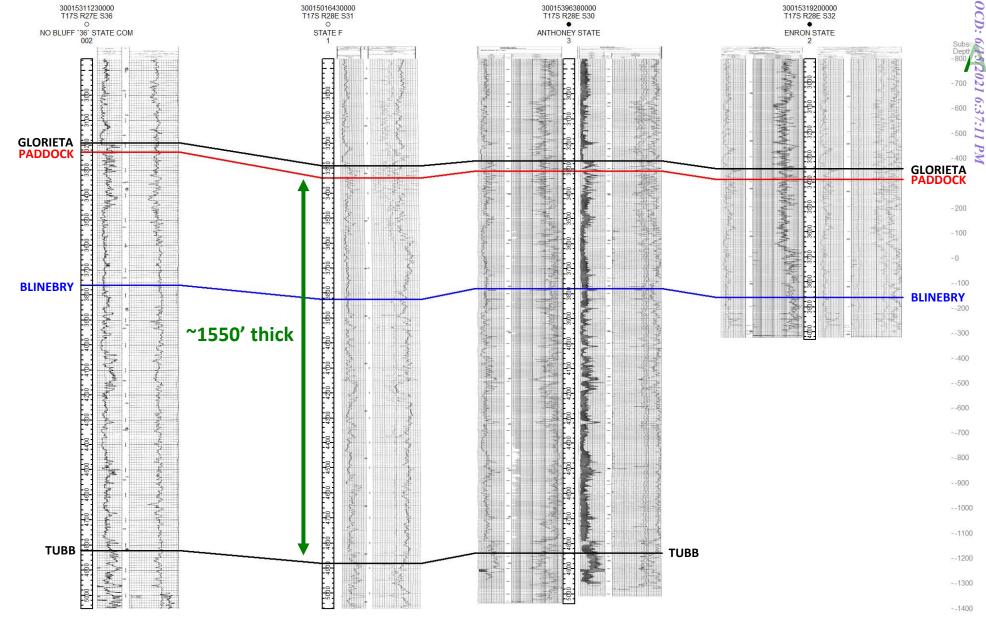
-700 -

-900 -

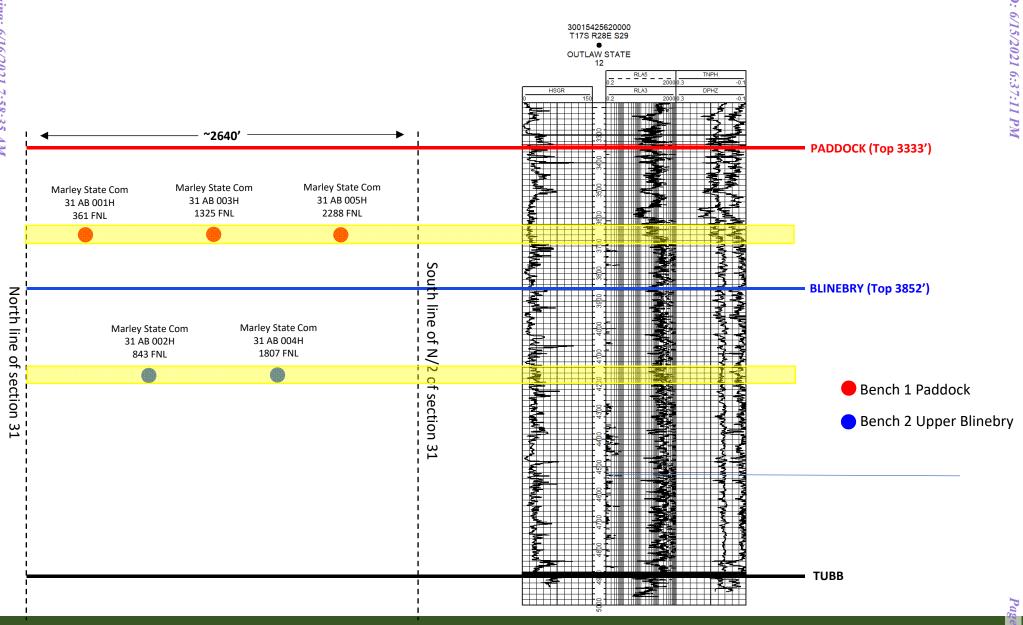
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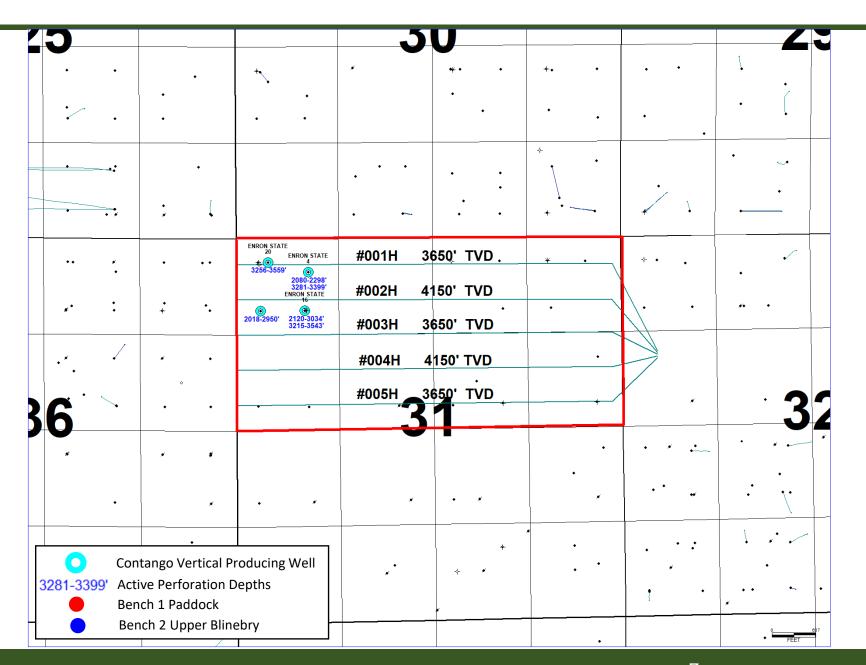
-1400 -



Marley 31 AB Barrel Diagram and Landing Zone



Marley 31 AB Proposed and Offset Vertical Wells



TAB 7

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

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

Case No. 21860

DIRECT TESTIMONY OF DAVID MITCHELL

- I, being duly sworn on oath, state the following:
- I am over the age of 18 and have the capacity to execute this Narrative of Direct
 Testimony, which is based on my personal knowledge.
- 2. I am a petroleum engineer employed as VP Engineering with Longfellow Energy, LP ("Longfellow"), and I am familiar with the subject application and the lands involved.
- 3. This testimony is submitted in connection with the filing by Longfellow of the above-referenced compulsory pooling application (the "Application"). I will also appear at hearing in person to testify.
- 4. I have not previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum engineering matters. My education and work experience are as follows: I obtained a BASC (Engineering) from The University of British Columbia (Canada) in 2007. I have been working in the oil and gas industry since 2005 in various engineering capacities. I have been working for Longfellow as VP Engineering since 2015. I have been working on New Mexico oil and gas matters for approximately 4 years. My resumé is attached hereto as Exhibit C-1.
- 5. I understand that Contango Oil & Gas ("Contango") has entered an appearance in this matter because it operates vertical wells within the proposed horizontal spacing unit and

Exhibit C Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021 believes that its vertical wells may be adversely impacted ("Vertical Wells"). I further understand that Contango's concerns result in part from adverse impacts to a different vertical well resulting from the drilling of horizontal wells by Spur Energy Partners in a spacing unit approximately one mile away from the proposed HSU by Longfellow ("Other Impacted Well") and that Contango intends to compare damages resulting from Spur's conduct to evaluate the potential impacts of the existing vertical wells in the proposed HSU.

- 6. Information relating to the Other Impacted Well will not inform the impacts to the Vertical Wells that may result from drilling Longfellow's proposed application for two reasons. First, impacts on vertical wells cannot be predicted. In one case, impacts may be adverse. On the other hand, impacts can also be positive. Determinations in this regard cannot be made until after the horizontal wells have been drilled and fraced. Second, upon notice from Longfellow, Contango can take measures to protect its wells by, for example, temporarily suspending them prior to the commencement of fracing of the horizontal wells. Upon information and belief, Contango was unable to protect the Other Impacted Well due to a lack of notice from Spur. Adverse impacts resulting from fracing that occurred without notice cannot serve to inform the parties in this proceeding in regard to anticipated effects on the Vertical Wells.
- 7. Longfellow has conducted an economic evaluation of Contango's vertical wells using publicly available production data. There are 4 wells in the northwest corner of the unit, of which Contango operates the 3 wells that produce from the Yeso formation.

Longfellow found no publicly available production data on the OCD website since January of 2021. This either means the wells are no longer producing, or production has not been properly reported since that time. The combined production of these 3 Yeso wells in January 2021 was

~7.3 Bbl of oil per day (Bopd). The majority of the production came from the Enron State #20 at ~6 Bopd.

Making the assumption that all 3 wells are currently producing and projecting January data forward, Longfellow generated decline curves for each well and prepared an Economic Summary Projection to value the 3 wells. *See* Exhibit C-1. Additionally, using current strip price forecasts (WTI & Henry Hub), Longfellow layered in operating costs, marketing price differentials, and other operating assumptions from our own analogue wells in the immediate area to generate an estimated future net revenue stream. The results of this analysis show that (assuming 100% working interest & 75% net revenue interest ownership), the 3 wells combined have an estimated recoverable reserves of ~15 MBO and Net Present Value (NPV10) of ~\$274,600.

The last of the 3 wells is projected to reach its economic limit in 2038. In 2022, the average production for the 3 wells is expected to be 5.1 Bopd.

8. Longfellow's development plan for this unit is to spend ~\$20 milling drilling and completing 5-wells in this unit, with an expected oil recovery approximately ~2.5 million barrels of oil from the development. The initial production expectations are estimated at ~2,500 Bopd for the 5 wells proposed.

FURTHER A	FFIANT	SAYETH N	IAUGHT
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David Mitchell

STATE OF TEXAS)ss **COUNTY OF DALLAS**

Subscribed to and sworn before me this 15th day of June, 2021.

Notary Public

My Commission expires 5/10/2022

RYAN PALMER REYNOLDS Notary Public, State of Texas Comm. Expires 05-10-2022 Notary ID 131562762

Date: 06/15/2021 3:46:49PM **Partner:** All Cases

ECONOMIC SUMMARY PROJECTION

CONTANGO RESOURCES COMPANY Operator

enron wells
Custom Selection
Discount Rate: 10.00

As of: 06/01/2021

Est. Cum Oil (Mbbl) : 78.86 Est. Cum Gas (MMcf) : 249.24 Est. Cum Water (Mbbl) : 476.66

Year	•	Oil Gross (Mbbl)	Gas Gross (MMcf)	Oil Net (Mbbl)	Gas Net (MMcf)	Oil Price (\$/bbl)	Gas Price (\$/Mcf)	Oil & Gas Rev. Net (M\$)	Misc. Rev. Net (M\$)	Costs Net (M\$)	Taxes Net (M\$)	Invest. Net (M\$)	NonDisc. CF Annual (M\$)	Cum Disc. CF (M\$)
2021		1.31	5.80	0.98	4.35	66.57	2.14	74.73	0.00	12.16	6.30	0.00	56.27	54.72
2022		1.86	7.99	1.39	5.99	61.62	1.92	97.39	0.00	17.41	8.21	0.00	71.77	119.34
2023		1.58	7.13	1.18	5.35	57.10	1.72	76.70	0.00	16.59	6.46	0.00	53.64	163.03
2024		1.38	6.50	1.03	4.88	54.11	1.70	64.18	0.00	16.01	5.42	0.00	42.76	194.55
2025		1.21	5.96	0.91	4.47	52.30	1.69	55.17	0.00	15.34	4.66	0.00	35.18	218.01
2026		0.92	4.79	0.69	3.59	51.40	1.67	41.62	0.00	8.54	3.52	0.00	29.57	235.85
2027		0.84	4.45	0.63	3.34	51.11	1.67	37.78	0.00	8.32	3.19	0.00	26.27	250.20
2028		0.77	4.15	0.58	3.12	51.13	1.68	34.89	0.00	8.14	2.95	0.00	23.80	261.97
2029		0.71	3.85	0.54	2.89	51.37	1.72	32.46	0.00	7.98	2.74	0.00	21.73	271.70
2030		0.66	3.58	0.50	2.69	51.75	1.77	30.50	0.00	7.85	2.58	0.00	20.07	279.83
2031		0.62	3.33	0.46	2.50	52.20	1.82	28.69	0.00	7.73	2.43	0.00	18.53	286.62
2032		0.58	3.11	0.43	2.33	52.70	1.88	27.10	0.00	7.61	2.29	0.00	17.19	292.33
2033		0.53	2.88	0.40	2.16	52.71	1.94	25.28	0.00	7.50	2.14	0.00	15.64	297.03
2034		0.50	2.68	0.37	2.01	52.71	2.14	23.91	0.00	7.40	2.03	0.00	14.48	300.97
2035		0.46	2.49	0.35	1.87	52.71	2.14	22.24	0.00	7.31	1.89	0.00	13.04	304.18
Rem.		1.10	5.97	0.83	4.47	52.71	2.14	53.24	0.00	19.52	4.51	200.00	-170.79	-29.63
Total	17.3	15.04	74.68	11.28	56.01	55.19	1.85	725.89	0.00	175.41	61.33	200.00	289.16	274.55
	17.5			11.20	30.01	33.17	1.03	723.07	0.00	173.41	01.55	200.00	207.10	274.33
Ult.		93.90	323.91			Eco.	Indicators							
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TAB 8

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

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

Case No. 21860

AFFIDAVIT OF NOTICE

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

I, Sharon T. Shaheen, attorney for Applicant LONGFELLOW ENERGY, LP, upon oath state that I caused notice of the application to be sent by certified mail through the United States Postal Service ("USPS") on April 16, 2021, to all uncommitted interest owners sought to be pooled in this proceeding. Evidence of mailing to all parties is attached hereto as Exhibit A. In addition, notice was directed, to all owners to whom notice was mailed, by publication in the Carlsbad Current Argus on April 20, 2021, which is reflected in the Affidavit of Publication attached hereto as Exhibit B. Exhibit B demonstrates to my satisfaction that any owner who did not receive personal notice through the certified mailing was properly served by publication.

Longfellow Energy, LP, 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 T. SHAHEEN

Sharon of Shakeen

SUBSCRIBED AND SWORN to before me on this 15th day of June, 2021.

Notary Public

My Commission Expires: 11-18-2021

Exhibit D Longfellow Energy, LP NMOCD NO. 21860 JUNE 17, 2021







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MONTGOMERY & ANDREWS

LAW FIRM

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

Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. □ Agent Print your name and address on the reverse ☐ Addressee so that we can return the card to you. Date of Delivery Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: If YES Piter Zettyer 2 godfess below: Contango Resources, Inc. 211 E. 7th St. AAO Suite 620 Austin, TX 78702

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Article Number (Transfer from service label)

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☐ Certified Mail Restricted Delivery

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3. Service Type ☐ Adult Signature

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☐ Adult Signature Restricted Delivery

☐ Priority Mail Express®
☐ Registered Mail™

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 Signature Confirmation

Restricted Delivery

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EXHIBIT A

to Affidavit of Notice



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Manix Royalty, Ltd. 3300 N. A Street, Bldg. 8 Suite 106 Midland, TX 79705



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C. Date of Delivery

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Longfellow/Marley wells (21860) - 15392 - 2102/STSNotice Letter



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- Attach this card to the back of the mailpiece, or on the front if space permits.
- 1. Article Addressed to:

Occidental Permian, LP 5 Greenway Plaza Suite 110 Houston, TX 77046



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Agent

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Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



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PS Form 3811, July 2015 PSN 7530-02-000-9053



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

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. Signature Print your name and address on the reverse so that we can return the card to you. Addressee Attach this card to the back of the mailpiece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 4-17-21 AWRENCE DAJIS 1. Article Addressed to: If YES, enter delivery address below: Jane Ann Hudson Davis 6770 Wolf Creek Ct. NE Rio Rancho, NM 87144-5708 3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Priority Mall Express® Registered Mail™ Registered Mail™ Registered Mail™ Registered Mail™ Registered Mail™ Return Receipt for Merchandise Certified Mall® Certified Mall Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery Adda Number (Transfer from service label) 7015 1730 0000 9774 3745 Signature Confirmation il Restricted Delivery Restricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt





United States Postal Service Sender Please print vour name address and 7ID±4® in this bax® MONTGOMERY & ANDREWS

LAW FIRM

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

Longtellow/Marley wells (21860) - 15392 - 2102/STSNotice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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: Platform Energy III 810 Texas Ave. Lubbock, TX 79401	A. Signature. X
	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Regular of Mail Restricted Delivery ☐ Regular of Mail Restricted Delivery ☐ Return Restricted Delivery



1528



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

Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



SENDER:	COMPLETE	THIS SECTION

- 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.
- 1. Article Addressed to:

Bureau of Land Management 620 E. Greene St. Carlsbad, NM 88220



2. Article Number (Transfer from service label)

7015 1730 0000 9774

- Service Type

 - ☐ Adult Signature
 ☐ Adult Signature Restricted Delivery
 ☐ Certified Mail®
 ☐ Certified Mail Restricted Delivery

B. Received by (Printed Name)

- ☐ Collect on Delivery
 ☐ Collect on Delivery
 ☐ Collect on Delivery Restricted Delivery 3943

COMPLETE THIS SECTION ON DELIVERY

D. Is delivery address different from Item 1?

If YES, enter delivery address below:

- Return Receipt for Merchandise Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery

☐ Priority Mall Express® ☐ Registered Mail TM
☐ Registered Mail Restricted Delivery

□ Agent

☐ Yes

☐ No

☐ Addressee

Date of Delivery

stricted Delivery

Domestic Return Receipt

Released to Imaging: 6/16/2021 7:58:33 AM PSN 7530-02-000-9053



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

Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



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. 1. Article Addressed to: State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 B. Received by (Frinted Name) C. Dat D. Is delivery address different from Item 1? If YES, enter delivery address below: 3. Service Type Adult Signature Adult Signature Adult Signature Registered Registered	R: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 3. Service Type Priority Management of the Adult Signature Adult Signature Restricted Delivery Certified Mail®	your name and address on the reverse at we can return the card to you. It this card to the back of the mailpiece, at the front if space permits.	B. Received by (Frinted Name)	Agent Addressee C. Date of Delivery
☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Registered ☐ Certified Mail® ☐ Registered	e Land Office Old Santa Fe Trail		II lediti II
2 Article Number (Transfer from service label)	590 9402 1258 5246 3417 88 Number (Transfer from service label)	□ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery Restricted Delivery	Priority Mall Express® Registered Mall™ Registered Mall Restricted Delivery Return Receipt for Merchandise Signature Confirmation™ Signature Confirmation Restricted Delivery



9590 9402 1258 5246 3415 28

United States Postal Service



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

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY A. Signature Complete items 1, 2, and 3. Print your name and address on the reverse ☐ Agent so that we can return the card to you. □ Addressee B. Received by (Printed Name) Attach this card to the back of the mailplece, **Date of Delivery** or on the front if space permits. 1, Article Addressed to: D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: Apache Corporation 2000 Post Oak Blvd. Suite 100 Houston, TX 77056 3. Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Adult Signature ☐ Adult Signature Restricted Delivery Registered Mail Restricted Delivery Return Receipt for Merchandise Certified Mail® Certified Mail Restricted Delivery Collect on Delivery Collect on Delivery Restricted Delivery Industrial Mail 9590 9402 1258 5246 3415 28 ☐ Signature Confirmation™ ☐ Signature Confirmation 2. Article Number (Transfer from service label) 7015 1730 0000 9774 3691 Restricted Delivery Restricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

United States Postal Service



5246 3415 11

1258

Sender: Please print your name, address, and ZIP+4® in this box



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Permit No. G-10

Domestic Return Receipt

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

Longtellow/Marley wells (21860) - 15392-2102/STSNotice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent so that we can return the card to you. ☐ Addressee Attach this card to the back of the mailpiece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? If YES, enter delivery address below: ☐ No ZPZ Delaware I. LLC 2000 Post Oak Blvd. Suite 100 Houston, TX 77056 Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mall Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery 9590 9402 1258 5246 3415 11 2. Article Number (Transfer from service label) ☐ Signature Confirmation ☐ Signature Confirmation 7015 1730 0000 9774 3684 il Restricted Delivery Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053



9590 9402 1258 5246 3415 80

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Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent 1001 so that we can return the card to you. ☐ Addressee Attach this card to the back of the mailplece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 4-20-2021 1. Article Addressed to: D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: Chisos, Ltd. 1331 Lamar St. **Suite 1077** Houston, TX 77010 3. Service Type ☐ Priority Mail Express®☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise Adult Signature Adult Signature Restricted Delivery Certified Mail® ☐ Certified Mall Restricted Delivery 9590 9402 1258 5246 3415 80 ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) ☐ Signature Confirmation™ ☐ Signature Confirmation 7015 1730 0000 9774 3752 Restricted Delivery Restricted Delivery



9402 1258

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Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



ŧ	SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	 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 mailplece, or on the front if space permits. Article Addressed to: SEP Permian, LLC 9655 Katy Freeway Suite 500 	A. Signature X
	Houston, TX 77024	C. Service Type Priority Mail Express®
	9590 9402 1258 5246 3416 35 2. Ad	☐ Adult Signature ☐ Adult Signature ☐ Adult Signature ☐ Registered Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Certified Mail Restricted Delivery ☐ Registered Mail
	PS Form 00 1 1, July 2010 FSN 7030-02-000-9053	ure Confirmation and Delivery Domestic Return Receipt



1258

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Santa Fe, New Mexico 87504-2307

Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. A. Signature Print your name and address on the reverse ☐ Agent so that we can return the card to you. ☐ Addressee Attach this card to the back of the mailpiece, B. Received by (Printed Name) C. Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from Item-12 Yes If YES, enter delivery address below: Devon Energy, inc. 333 West Sheridan Ave. Oklahoma City, OK 73102-5015 2021 Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certifled Mall® Registered Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmation™ Signature Confirmation ☐ Certified Mail Restricted Delivery 9590 9402 1258 5246 3416 65 ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) 7015 1730 0000 9774 3837 all Restricted Delivery Restricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053



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Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter

Sender: Please print your name



COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION A. Signature Complete items 1, 2, and 3. □ Agent Print your name and address on the reverse ☐ Addressee so that we can return the card to you. C. Date of Delivery B. Received by (Printed Name) Attach this card to the back of the mailpiece, 4122/21 or on the front if space permits. D. Is delivery address different from item 1? 1. Article Addressed to: If YES, enter delivery address below: Black Shale Minerals, LLC 5006 State Hwy 31 North Longview, TX 75603 ☐ Priority Mail Express® ☐ Registered Mail™ 3. Service Type ☐ Adult Signature ☐ Registered Mail Restricted ☐ Registered Mail Restricted ☐ Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation ☐ Signature Confirmation ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery 9590 9402 1258 5246 3417 02 ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) Restricted Delivery il Restricted Delivery 7015 1730 0000 9774 3875

Domestic Return Receipt



Domestic Return Receipt

9590 9402 1258 5246 3415 66

United States Postal Service • Sender: Please print your name address and 7IP+4® in this boy MONTGOMERY



& ANDREWS

LAW FIRM

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Longtellow/Marley wells (21860) - 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY Complete items 1, 2, and 3. Print your name and address on the reverse ☐ Agent so that we can return the card to you. ☐ Addressee Attach this card to the back of the mailpiece, Date of Delivery or on the front if space permits. 1. Article Addressed to: D. Is delivery address different from item 1? If YES, enter delivery address below: ☐ No Jonel Susan Grasso Howard 11 Ocean Ridge Laguna Niguel, CA 92677-9231 Service Type ☐ Priority Mall Express® □ Adult Signature ☐ Registered Mail Testroted ☐ Registered Mail Restricted ☐ Delivery ☐ Return Receipt for Merchandise ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certifled Mall Restricted Delivery 9590 9402 1258 5246 3415 66 ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery 2. Adiala Number (Transfer from service label) ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery 7015 1730 0000 9774 3738 Restricted Delivery PS Form 3811, July 2015 PSN 7530-02-000-9053



9<mark>590 9402 1258 52</mark>46 **3**416 27

United States
Postal Service

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

Sender: Please print your name, address, and ZID. 48 to 45.

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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. 1. Article Addressed to: Debra Latham 954 River Forest Dr. New Braunfels, TX 78132	A. Signature X
	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery ☐ Ill Restricted Delivery ☐ Signature Confirmation ☐ Signature Confirmation ☐ Signature Confirmation ☐ Restricted Delivery ☐ Restricted Delivery ☐ Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053	Personal B.C.



9590 9402 1258 5246 3416 34

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• Sender: Please print your name, address, and ZID±48 in this boys



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Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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
Debra Latham Trustee of the Latham Family Trust 954 River Forest Dr. New Braunfels, TX 78132	LI NO
9590 9402 1258 5246 3416 34 2. Article Number (Transfer from service label)	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Collect on Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation ☐ Signature Confirmation ☐ Signature Confirmation
7015 1730 0000 9774 38	Restricted Delivery Restricted Delivery Restricted Delivery

United States Postal Service Sender: Please orint vour name, address, and ZIP+4® in this box



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P.O. Box 2307

Santa Fe, New Mexico 87504-2307

Longtellow/Marley wells (21860) - 15392 - 2102/STSNotice Letter

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT 3677 Domestic Mail Only .am rmation, visit our website at www.usps.com 477P 7 Certified Mail Fee 5 Extra Services & Fees (check box, add fee as appr Return Receipt (hardcopy) 0000 Return Receipt (electronic) Certified Mail Restricted Delivery Adult Signature Required Adult Signature Restricted Deliver 1730 30 Postage EOG Resources, Inc. S 5509 Champions Dr. 707 Midland, TX 79702 PS Form 3800, April 2015 PSN 7530-02-000-9047

SENDER: COMPLETE THIS SECTION

- 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.
- 1. Article Addressed to:

EOG Resources, Inc. 5509 Champions Dr. Midland, TX 79702



2. Article Number (Transfer from service label)

Service Type

A. Signature

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®

COMPLETE THIS SECTION ON DELIVERY

D. Is delivery address different from item 1? \ Yes If YES, enter delivery address below:

B. Received by (Printed Name)

☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery

- ☐ Priority Mail Express®
 ☐ Registered Mail™
- Registered Mall Restricted Delivery

Agent Agent

C. Date of Delivery

4-50-5

☐ Addressee

Delivery

■ Return Receipt for
Merchandise
■ Signature Confirmation
■ Signature Confirmation Restricted Delivery

PS Form 3811 July 2015 PSN 7530-02-000-9053 Released to Imaging: 6/16/2021 7:58:35 AM

Domestic Return Receipt

Received by OCD 6/15/2021 6:37:11 PMACKING#



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9590 9402 1258 5246 3415 59

United States
Postal Service



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

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION 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 mallpiece, or on the front if space permits. Article Addressed to:	COMPLETE THIS SECTION ON DELIVERY A. Signature A. Signature A. Signature Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery addresses
Joan Hudson Moore 660 Camino De Los Mares 334 San Clemente, CA 92673-1800	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
9590 9402 1258 5246 3415 59 2 Article Number (Transfer from service label)	B. Service Type Adult Signature Adult Signature Registered Mail Mail Restricted Delivery Registered Mail Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmat Signature Confirmat Restricted Delivery Restr

USPS TRACKING#



3416 72 5246 1,258 Sandar Place with your name address and 710+48 in this bay

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Longfellow/Marley wells (21860) - 15392-2102/STS Notice Letter



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ate many in a street grad gride	COMMODIE	THE RESIDENCE OF THE SECOND	SECTION
SENDER:	【解析】[[[[]]]] [[]] [[]]	$I \subseteq I \cap I \cap I$	OLO / IO.

- 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.
- 1. Article Addressed to:

V-F Petroleum, Inc. 500 W. Texas Ave. Suite 350 Midland, TX 79710



9590 9402 1258 5246 3416 72

7015 1730 0000 9774

- COMPLETE THIS SECTION ON DELIVERY
- A. Signature

- ☐ Agent ☐ Addressee
- B. Received by (Printed Name)
- C. Date of Delivery

- D. Is delivery address different from item 1? If YES, enter delivery address below:
- 3. Service Type
- ☐ Adult Signature
 ☐ Adult Signature Restricted Delivery
- Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
 Delivery Restricted Delivery
- □ Priority Mail Express®
 □ Registered Mail™
 □ Registered Mail Restrictedd
 □ Delivery
 □ Return Receipt for
 Merchandise
 □ Signature Confirmation™
 □ Signature Confirmation
 Restricted Delivery

3844 Il Restricted Delivery

Domestic Return Receipt

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097743844

Remove X

Your item was delivered to an individual at the address at 10:10 am on April 20, 2021 in MIDLAND, TX 79701.

⊘ Delivered, Left with Individual

April 20, 2021 at 10:10 am MIDLAND, TX 79701

V-F Petroleum, Inc. 500 W. Texas Ave. Suite 350 Midland, TX 79710

Get Updates V

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ^

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Go to our FAQs section to find answers to your tracking questions.

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9590 9402 1258 5246 3416 10

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Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON	DELIVERY
 ■ Complete items 1, 2, and 3. ■ Print your name and address on the reverse so that we can return the card to you. 	A. Signature	☐ Agent ☐ Addressee
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name)	C. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from If YES, enter delivery address	
Mark Heinen 122 Mountain Spring Dr. Borne, TX 78006		
9590 9402 1258 5246 3416 10	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☑ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery	☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricte Delivery ■ Return Receipt for Merchandise
2. Article Number (Transfer from condend lebel) 7015 1730 0000 9774 3	7 3 Restricted Delivery	☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053		Domestic Return Receipt

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097743783

Remove X

Your item was delivered to the front desk, reception area, or mail room at 11:48 am on April 22, 2021 in BOERNE, TX 78006.

⊘ Delivered, Front Desk/Reception/Mail Room

April 22, 2021 at 11:48 am BOERNE, TX 78006

Mark Heinen 122 Mountain Spring Dr. Borne, TX 78006 eedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

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USPS TRACKING#



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9590 9402 1258 5246 3416 58

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

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON D	ELIVERY
 Complete items 1, 2, and 3. Print your name and address on the reverse 	A. Signature	☐ Agent☐ Addressee
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name)	C. Date of Delivery
or on the front if space permits. 1. Article Addressed to:	D. Is delivery address different from If YES, enter delivery address b	item 1? Yes elow: No
WPX Energy Permian, LLC 3500 One Williams Center Tulsa, OK 74172		
9590 9402 1258 5246 3416 58	☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery	☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricte Delivery ☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation ☐
2 Article Number (Transfer from service label) 7015 1730 0000 9774 36	insured Mail Restricted Delivery	Signature Confirmation Restricted Delivery omestic Return Receip

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097743820

Remove X

Your item was delivered to an individual at the address at 7:42 am on April 26, 2021 in TULSA, OK 74172.

⊘ Delivered, Left with Individual

April 26, 2021 at 7:42 am TULSA, OK 74172

WPX Energy Permian, LLC 3500 One Williams Center Tulsa, OK 74172 Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ^

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Go to our FAQs section to find answers to your tracking questions.

Received by OCD: 6/15/2021 6:37 Japs MRACKING#



First-Class Mall Postage & Fees Paid USPS Permit No. G-10

Domestic Return Receipt

9590 9402 1258 5246 3417 57

United States
Postal Service



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

Longfellow/Marley wells (21860) – 15392-2102/STS Notice Letter



1	
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 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. 	A. Signature X
1. Article Addressed to:	D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No
EnPlat III 1200 Summit Ave. Suite 350 Fort Worth, TX 76102	
9590 9402 1258 5246 3417 57	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail® ☐ Collect on Delivery
2. Article Number (Transfer from service label) 7015 1730 0000 9774 3	Collect on Delivery Restricted Delivery

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097743929

Remove X

Your item was delivered to the front desk, reception area, or mail room at 12:05 pm on April 23, 2021 in FORT WORTH, TX 76102.

⊘ Delivered, Front Desk/Reception/Mail Room

April 23, 2021 at 12:05 pm FORT WORTH, TX 76102 En Plat III 1200 Summit Ave. Suite 350 Fort Worth, TX 76102

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

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Feedback

Carlsbad Current Argus.

Affidavit of Publication Ad # 0004696699 This is not an invoice

MONTGOMERY & ANDREWS P.A. PO BOX 2307

SANTA FE, NM 87504-2307

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 on the date as follows, to wit:

04/20/2021

Subscribed and sworn before me this April 20, 2021

State of WI, County of Brown

NOTARY PUBLIC

My commission expires

1-7-25

KATHLEEN ALLEN Notary Public State of Wisconsin

Ad # 0004696699 PO #: # of Affidavits1

This is not an invoice

EXHIBIT B to Affidavit of Notice

NOTICE

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

Contango Resources, Inc.; EOG Resources, Inc.; ZPZ Delaware I, LLC; Apache Corporation; SEP Permian, LLC; Read & Stevens, Inc.; Joan Hudson Moore; Jonel Susan Grasso Howard; Jane Ann Hudson Davis; Chisos, Ltd.; Mel Riggs; Mark Tisdale; Mark Heinen; Debra Latham; Debra Latham, Trustee of the Latham Family Trust; Greg Benton; WPX Energy Permian, LLC; Devon Energy, Inc.; V-F Petroleum, Inc.; Occidental Permian Limited Partnership; OXY USA WTP, LP; Black Shale Minerals, LLC; Manix Royalty, Ltd.; John & Theresa Hillman Family Properties, LP; Nestegg Energy Corporation; Platform Energy, Ill; EnPlat Ill; State Land Office.

Longfellow Energy, LP, has filed an application with the New Mexico Oil Conservation Division as follows:

Case No. 21860. 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 N/2 of Section 31, Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Applicant proposes to drill the following wells: (1) Marley State Com 31 AB 001H well, to be horizontally drilled from an approximate surface hole location 1578' FNL and 490' FWL of Section 32, T175-R28E, to an approximate bottom hole location 361' FNL and 100' FWL of Section 31, T17S-R28E; (2) Marley State Com 31 AB 002H well, to be horizontally drilled from an approximate surface hole location 1603' FNL and 490' FWL of Section 32, T175-R28E, to an approximate bottom hole location 843' FNL and 100' FWL of Section 31, T175-R28E; (3) Marley State Com 31 AB 003H well, to be horizontally drilled from an approximate surface hole location 1628' FNL and 490' FWL of Section 32, T175-R28E, to an approximate surface hole location 1325' FNL and 100' FWL of Section 31, T175-R28E; (4) Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 31, T175-R28E; and (5) Marley State Com 31 AB 004H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 490' FWL of Section 32, T175-R28E; to an approximate bottom hole location 1807' FNL and 100' FWL of Section 31, T175-R28E; and (5) Marley State Com 31 AB 005H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 100' FWL of Section 31, T175-R28E; and (5) Marley State Com 31 AB 005H well, to be horizontally drilled from an approximate surface hole location 1678' FNL and 100' FWL of Section 31, T155-R28E, to an approximate bottom hole location 2288' FNL and 100' FWL of Section 31, T155-

This application will be set for hearing before a Division Examiner at the New Mexico Oil Conservation Division in Santa Fe, New Mexico on May 6, 2021, at 8:15 a.m. During the COVID-19 Public Health Emergency, state buildings are closed to the public and hearings will be conducted remotely. 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 attend the hearing and present testimony or evidence, you must enter your appearance by April 28, 2021, and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement by April 29, 2021, in accordance with Division Rule 19.15.4.13 NMAC. For further information, contact the applicant's attorney, Sharon T. Shaheen, Montgomery & Andrews, P.A., 325 Paseo de Peralta, Santa Fe, New Mexico 87501, (505) 986-2678.

#4696699, Current Argus, Apr. 20, 2021