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. 21651

APPLICATION OF SPUR ENERGY PARTNERS, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 21733



Hendrix State Com 1314ABX 001H, 002H, 003H, 004H, 005H

June 17, 2021

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Tab 1

ALL INFORMATION IN THE APPLICATION MUST E	BE SUPPORTED BY SIGNED AFFIDAVITS
Case: 21651	APPLICANT'S RESPONSE
Date	June 17, 2021
Applicant	Longfellow Energy, LP
Designated Operator & OGRID (affiliation if applicable)	372210
Applicant's Counsel:	Montgomery & Andrews, P.A. (Sharon Shaheen & John McIntyre)
Case Title:	Application of Longfellow Energy, LP for Compulsory Pooling, Eddy Count New Mexico
Entries of Appearance/Intervenors:	Sep Permian, LLC, ConocoPhillips
Well Family	Hendrix State Com 1314ABX
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:	Empire; Glorieta-Yeso [96210]
Well Location Setback Rules:	Statewide Rules
Spacing Unit Size:	480 acres, more or less
	loo dares, more or less
Spacing Unit Type (Horizontal/Vertical)	Horizotal
Size (Acres)	480 acres, more or less
Building Blocks:	Quarter-quart section (40 ac)
Orientation:	East-West
Description: TRS/County	NE/4 of Section 14-17S-28E and N/2 of Section 13-17S-28E
Standard Horizontal Well Spacing Unit (Y/N), If No, describe	Yes
Other Situations	
Depth Severance: Y/N. If yes, description	None
Proximity Tracts: If yes, description	No
Proximity Defining Well: if yes, description	N/A
Applicant's Ownership in Each Tract	Tract 1 = 61.75753%, Tract 2 = 0.00000%, Tract 3 = 77.60485%
Well(s)	
Name & API (if assigned), surface and bottom hole location,	
footages, completion target, orientation, completion status	
(standard or non-standard)	Handriy State Com 1214ARY 001H ARI 20 01F
Well #1	Hendrix State Com 1314ABX 001H, API 30-015 SHL: 361' FNL and 2,400' FEL of Section 14-17S-28E,
	BHL: 347' FNL and 20' FEL of Section 13-175-28E
	Completion Target: Yeso at approximately 3,900'
	Well Orientation: East to West
	Completion located expected to be standard
Horizontal Well First and Last Take Points	FTP (~ 347' FNL and 2,493' FEL of Section 14-17S-28E); LTP (~ 347' FNL and 100' FEL of Section 13-17S-28E)
Completion Target (Formation, TVD and MD)	Yeso Formation - TVD (~ 3,400'), MD (~ 11,400')
Well #2	Hendrix State Com 1314ABX 002H, API 30-015 SHL: 361' FNL and 2,400' FEL of Section 14-17S-28E, BHL: 347' FNL and 20' FEL of Section 13-17S-28E Completion Target: Yeso at approximately 4,300' Well Orientation: East to West Completion located expected to be standard

FTP (~800' FNL and 2,429' FEL of Section 14-17S-28E);
LTP (~800' FNL and 100' FEL of Section 13-17S-28E)
Yeso Formation - TVD (~ 4,300'), MD (~ 11,800')
Hendrix State Com 1314ABX 003H, API 30-015 SHL: 1,703' FNL and 2,428' FEL of Section 14-17S-28E, BHL: 1,254' FNL and 20' FEL of Section 13-17S-28E Completion Target: Yeso at approximately 3,900' Well Orientation: East to West
Completion located expected to be standard
FTP (~1,254' FNL and 2,491' FEL of Section 14-17S-28E); LTP (~1,254' FNL and 100' FEL of Section 13-17S-28E)
Yeso Formation - TVD (~ 3,900'), MD (~ 11,400')
Hendrix State Com 1314ABX 004H, API 30-015 SHL: 1,728' FNL and 2,428' FEL of Section 14-17S-28E, BHL: 1,708' FNL and 20' FEL of Section 13-17S-28E Completion Target: Yeso at approximately 4,300' Well Orientation: East to West Completion located expected to be standard
FTP (~1,708' FNL and 2,490' FEL of Section 14-17S-28E); LTP (~1,708' FNL and 100' FEL of Section 13-17S-28E)
Yeso Formation - TVD (~ 4,300'), MD (~ 11,800')
Hendrix State Com 1314ABX 005H, API 30-015 SHL: 1,753' FNL and 2,428' FEL of Section 14-17S-28E, BHL: 2,161' FNL and 20' FEL of Section 13-17S-28E Completion Target: Yeso at approximately 3,900' Well Orientation: East to West Completion located expected to be standard
FTP (~2,161' FNL and 2,489' FEL of Section 14-17S-28E); LTP (~ 2,161' FNL and 100' FEL of Section 13-17S-28E)
Yeso Formation - TVD (~ 3,900'), MD (~ 11,400')
\$8,000; see Exhibit A, Paragraph 18
\$800; see Exhibit A, Paragraph 18
Please see AFE at Exhibit A-7
200%; see Exhibit A, Paragraph 19
Submitted with online filing of Application
Exhibit C; see Exhibit A-8
·
Exhibit C
Exhibit C
See Exhibits A-2, A-3 & A-4 Exhibits A-2, A-3 & A-4

hlocatable Parties to be Pooled	None
wnership Depth Severance (including percentage above & elow)	None
oinder	
Sample Copy of Proposal Letter	Exhibit A-7
ist 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	n/a
Engineering	
Existing Infrastructure, Producing Wells, Operations	Exhibit C-2, C-3, C-4 & C-5
Water Recycling & Storage Facility	Exhibit C-5
Approved Surface Use Agreements	Exhibit C-6
Spur Surface Location	Exhibit C-7
Flaring Breakdown (Longfellow Development)	Exhibit C-8
Drilling Analysis & Stimulated Lateral Length	Exhibit C-9
AFE Analysis	Exhibit C-12
Reservoir Engineering Analysis	Exhibit C-10, C-11, C-13 & C-14
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 pro	ovided in this checklist is complete and accurate.
Printed Name (Attorney or Party Representative):	Ryan Reynolds
Signed Name (Attorney or Party Representative):	day 19
Date:	4/10/2021

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.	21651	
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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 (Empire; Glorieta-Yeso [96210]) in a standard 480-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within 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 1.5-mile wells in the proposed HSU:
 - Hendrix State Com 1314 ABX 001H well, to be horizontally drilled from an approximate surface hole location 361' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 347' FNL and 20' FEL of Section 13, T17S-R28E.
 - Hendrix State Com 1314 ABX 002H well, to be horizontally drilled from an approximate surface hole location 386' FNL and 2400' FEL of Section 14, T17S-

- R28E, to an approximate bottom hole location 800' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 003H well, to be horizontally drilled from an approximate surface hole location 1703' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1254' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 004H well, to be horizontally drilled from an approximate surface hole location 1728' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 005H well, to be horizontally drilled from an approximate surface hole location 1753' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 13, T17S-R28E.
- 3. The completed intervals and first and last take points will meet the setback requirements set forth in the statewide rules for horizontal oil wells.
- 4. 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.
- 5. 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.

6. 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 March 4, 2021, and that, after notice and hearing as required by law, the Division enter an order:

- A. Creating a standard 480-acre, more or less, HSU comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within 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 1.5-mile wells in the HSU: (1) Hendrix State Com 1314 ABX 001H, (2) Hendrix State Com 1314 ABX 002H, (3) Hendrix State Com 1314 ABX 003H, (4) Hendrix State Com 1314 ABX 004H, and (5) Hendrix State Com 1314 ABX 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 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. 21651

APPLICATION OF SPUR ENERGY PARTNERS, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 21733

DIRECT TESTIMONY OF LANDMAN RYAN REYNOLDS

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

- 1. I am over the age of 18 and have the capacity to execute this direct written testimony, which is based on my personal knowledge.
- 2. I am a landman employed as Land Manager with Longfellow Energy, LP ("Longfellow"), and I am familiar with the subject 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") 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 all uncommitted interest owners, including working interest owners, into the horizontal spacing and proration unit ("HSU") described below and in the wells to be drilled in that unit.
- 6. In this case, Longfellow seeks an order pooling all uncommitted interests in the Yeso formation (Empire; Glorieta-Yeso [96210]) in a standard 480-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Longfellow proposes to drill the following 1.5-mile wells in the proposed HSU (collectively, "Hendrix 1314 ABX Wells"):
 - a. **Hendrix State Com 1314 ABX 001H** well, to be horizontally drilled from an approximate surface hole location 361' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 347' FNL and 20' FEL of Section 13, T17S-R28E. The first take point will be located at approximately 347' FNL and 2493' FEL of Section 14, T17S-R28E. The last take point will be located at approximately 347' FNL and 100' FEL of Section 13, T17S-R28E.
 - b. **Hendrix State Com 1314 ABX 002H** well, to be horizontally drilled from an approximate surface hole location 386' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 800' FNL and 20' FEL of Section 13, T17S-R28E. The first take point will be located at approximately 800' FNL and 2492' FEL of Section 14, T17S-R28E. The last take point will be located at approximately 800' FNL and 100' FEL of Section 13, T17S-R28E.
 - c. **Hendrix State Com 1314 ABX 003H** well, to be horizontally drilled from an approximate surface hole location 1703' FNL and 2428' FEL of Section 14, T17S-

- R28E, to an approximate bottom hole location 1254' FNL and 20' FEL of Section 13, T17S-R28E. The first take point will be located at approximately 1254' FNL and 2491' FEL of Section 14, T17S-R28E. The last take point will be located at approximately 1254' FNL and 100' FEL of Section 13, T17S-R28E.
- d. **Hendrix State Com 1314 ABX 004H** well, to be horizontally drilled from an approximate surface hole location 1728' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 13, T17S-R28E. The first take point will be located at approximately 1708' FNL and 2490' FEL of Section 14, T17S-R28E. The last take point will be located at approximately 1708' FNL and 100' FEL of Section 13, T17S-R28E.
- e. **Hendrix State Com 1314 ABX 005H** well, to be horizontally drilled from an approximate surface hole location 1753' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 13, T17S-R28E. The first take point will be located at approximately 2161' FNL and 2489' FEL of Section 14, T17S-R28E. The last take point will be located at approximately 2161' FNL and 100' FEL of Section 13, T17S-R28E.
- 7. Spur Energy Partners, LLC ("Spur") submitted a competing application in Case No. 21733 seeking to compulsory pool interest owners in a standard 480-acre horizontal spacing unit comprised of the same acreage and developing the same formation as the wells proposed by Longfellow.
- 8. The completed intervals and first and last take points for the Longfellow Hendrix State Com 1314 ABX wells will meet statewide setback requirements for horizontal wells.
 - 9. A general location map, including the basin, 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 at **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.**
 - 13. There are no depth severances in the formation being pooled.
- 14. A chronology of contacts with the non-joined working interest owners is attached as **Exhibit A-5**.
- 15. The location of the proposed wells within the respective HSU is depicted in the draft C-102 Forms attached as **Exhibit A-6**. The draft C-102 Forms also indicate the locations of each surface hole, bottom hole, and the first and last take points.
- 16. I have conducted a diligent search of the public records in Eddy County, New Mexico, where the wells will be located, and conducted phone directory and computer searches to obtain contact information for parties entitled to notification. I mailed all parties a well proposal, including an Authorization for Expenditure ("AFE"), for each well.
- 17. **Exhibit A-7** is a copy of the well proposal letter and AFEs for the proposed wells that were attached thereto.
- 18. **Exhibit A-8** includes revised AFEs for each well. The estimated costs of the wells set forth in the AFEs are fair, reasonable, and comparable to the costs of other wells of similar depths and lengths drilled in this area of New Mexico.
- 19. **Exhibit A-9** is a copy of the notice letter that was sent with the Application to all of the uncommitted interest owners in the proposed HSU.

- 20. Longfellow has made a good faith effort to obtain voluntary joinder of the working interest owners in the proposed wells.
- 21. 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.
- 22. Longfellow requests the maximum cost, plus 200% risk charge, be assessed against non-consenting working interest owners.
 - 23. Longfellow requests that it be designated operator of the well.
- 24. In Order No. R-21532, Case No. 21509, the Division approved the compulsory pooling of spacing units for Longfellow's companion wells, the Hendrix State Com 13CD 001H, 002H, 003H, 004H, and 005H, located in the South half of Section 13, T17S, R28E ("Hendrix 13 CD Wells"). Longfellow has drilled the Hendrix 13 CD Wells and will be completing them shortly. **Exhibit A-10** reflects the location of the Hendrix 13 CD Wells in relation to the wells proposed in the instant application.
- 25. Longfellow has existing facilities available nearby to serve the proposed Hendrix 1314 ABX Wells, including a retention pond located in the NW/4 of Section 24, T17S-R28E, Eddy County, New Mexico, which will also be used to drill and operate the wells that are the subject of this Application. Thus, Longfellow is able to use the surface in a more prudent manner. More information about Longfellow's nearby infrastructure is provided by its engineer witness, David Mitchell at Exhibit C.

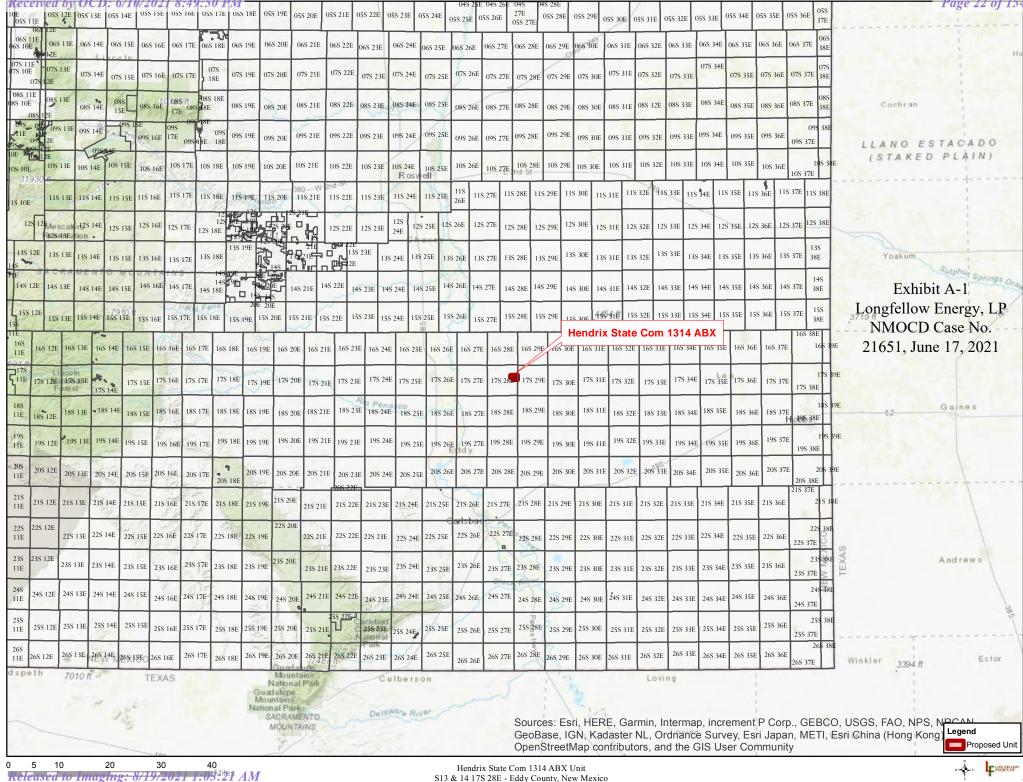
¹ API numbers for the Hendrix 13 CD Wells are 30-015-47481, 47480, 47479, 47478, and 47477.

- 26. Spur participated in the Hendrix 13 CD Wells under Order No. R-21352. Spur has approximately 7% interest in the Hendrix 13 CD Wells.
- 27. Spur does not have any existing wells that are as close to the HSU as Longfellow's Hendrix 13 CD Wells.
- 28. Longfellow has entered into an agreement with the surface owner in the N/2 of Section 14, T17S-R28E, Eddy County, New Mexico to construct well pads for the above-referenced wells.
- 29. Longfellow's preliminary title opinion indicates that Longfellow has approximately 46.45% interest and that Spur has approximately 40.31% in the proposed HSU. The remaining approximately 13% is held by another twelve working interest owners, each of whom have no more than a 2% interest. Longfellow obtained its initial interest in the pertinent acreage in December of 2019 and has diligently acquired the remainder of its interests through 15 separate acquisitions.
- 30. Longfellow sent out its well proposals on December 1, 2020. Subsequently, Longfellow learned of additional working interest owners and sent out well proposals to newly discovered owners on January 5, 2021. Longfellow filed the instant application on January 11, 2021.
- 31. The Exhibits attached hereto were prepared by me, or compiled from Longfellow's business records.
- 32. The granting of the Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
 - 33. The foregoing is correct and complete to the best of my knowledge and belief.

FURTHER AFFIANT SAYE	ETH NAUGHT	I do			
		Ryan Reynolds			
STATE OF TEXAS)				
COUNTY OF DALLAS)ss)				
Subscribed to and sworn before	Subscribed to and sworn before me this 10th day of June, 2021.				
		Carmella Smit			
		Notary Public			
My Commission expires	12/19/2023	<u> </u>			
CARMELLA Notary Public, S Comm. Expires Notary ID 6	tate of Texas 12-19-2023				

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Tab 4



		NESE	NWS	SW	NESW	NWSE	NESE	
NWSE								
		SESE	SWS	W	SESW	SWSE	SESE	
SWSE								
						Tract 3		
				Tract 2		<u>Interest Owners</u> Longfellow LH, LLC	Ownership % 77.60485%	
	Tract 1			Interest Owners SEP Permian, LLC	Ownership % 100.00000%	SEP Permian, LLC Yates Energy Corp.	14.06250% 6.66598%	
	Interest Owners Longfellow LH, LLC	61.	nership % 75753%	SEI Teilian, EEC	100%	The Bright Company, Ll	LC <u>1.66667%</u> 100 %	
	American Standard En SEP Permian LLC	nergy Corp. 8.:	50000% 87500%		NENW	NWNE	NENE	
NWNE	Apache Corp. ConocoPhillips Comp G.P.C. Oil & Gas Cor	any 5.0	25000% 52500% 00000%	17S 28	BE .			
	Julia Ann Hightower	Barnett 2.0	00000% 00000% 39820%					
	Mark Wilson Family Vladin, LLC	Partnership, LP 1.8	35638% 06436%					
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	Joei W. Caison		00%					
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NENW	NWNE	NENE	NWNW	Yates Energ Apache Cor	NWNE ters Owner LH, LLC 46.454 h, LLC 40.312 andard Energy Corp. 2.833 y Corp. 2.221 p. 2.083 lips Company 1.875	13% 50% 33% 99% 33%	— 17S
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CONTRACT AREA:

NE/4 of Section 14 and N/2 of Section 13-17S-28E, Eddy County New Mexico, 480 acres, more or less

UNIT INTEREST OF THE PARTIES

Interest Owners	Ownership %
Longfellow LH, LLC	46.45413%
SEP Permian, LLC	40.31250%
American Standard Energy Corp.	2.83333%
Yates Energy Corp.	2.22199%
Apache Corp.	2.08333%
ConocoPhillips Company	1.87500%
G.P.C. Oil & Gas Corp.	0.66667%
Julia Ann Hightower Barnett	0.66667%
MEC Petroleum Corp.	0.63273%
MEC Petroleum Corp.	0.61879%
The Bright Company, LLC	0.55556%
Vladin, LLC	0.35479%
Losee Investments, LLC	0.30940%
Chisos, Ltd.	0.26042%
Joel M. Carson	<u>0.15470</u> %
	100%

TRACT INTEREST OF THE PARTIES

Tract 1 (NE/4 of Section 14-17S-28E, 160 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	61.75753%
American Standard Energy Corp.	8.50000%
SEP Permian LLC	6.87500%
Apache Corp.	6.25000%
ConocoPhillips Company	5.62500%
G.P.C. Oil & Gas Corp.	2.00000%
Julia Ann Hightower Barnett	2.00000%
MEC Petroleum Corp.	1.89820%
Mark Wilson Family Partnership, LP	1.85638%
Vladin, LLC	1.06436%
Losee Investments, LLC	0.92819%
Chisos, Ltd.	0.78125%
Joel M. Carson	0.46409%
	100%

Tract 2 (NW/4 of Section 13-17S-28E, 160 acres, more or less)

Interest Owners	Ownership %
SEP Permian, LLC	100.00000%
	100%

Tract 3 (NE/4 of Section 13-17S-28E, 160 acres, more or less)

Interest Owners	Ownership %
Longfellow LH, LLC	77.60485%
SEP Permian, LLC	14.06250%
Yates Energy Corp.	6.66598%
The Bright Company, LLC	1.66667%
	100%

OIL AND GAS LEASES SUBJECT TO THIS AGREEMENT

Lessor: State of New Mexico Lessee: Manuel A. Sanchez

Serial No.: B-4456

Date: June 10, 1935

Description: The S/2 NE/4 of Section 14-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico Lessee: Xeric Oil & Gas Corp.

Serial No.: VO-7021 Date: April 1, 2004

Description: The NW/4 NE/4 of Section 14-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico Lessee: St. Devote, LLC

Serial No.: VC-0582 Date: March 1, 2019

Description: The NW/4 of Section 13-17S-28E, Eddy County, New Mexico

Lessor: State of New Mexico

Lessee: Sinclair Oil & Gas Company

Serial No.: K-3630

Date: October 15, 1963

Description: The NE/4 of Section 13-17S-28E, Eddy County, New Mexico

Lessor: Mossman-Midwest Company Lessee: Murchison Oil & Gas Inc.

Book/Page: 604/1191 Date: July 27, 2005

Description: The NE/4 NE/4 of Section 14-17S-28E, Eddy County, New Mexico

Exhibit A-4 Longfellow Energy, LP NMOCD Case No. 21651 June 17, 2021 Exhibit A-5 Longfellow Energy, LP NMOCD Case No. 21651 June 17, 2021

Owner	Contact Type	Notes				
SEP Permian, LLC	Letter, Emails and Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
The Bright Company, LLC	Letter, Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner				
Yates Energy Corporation	Letter, Emails and Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
Apache Corp.	Letter, Emails and Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
American Standard Energy Co.	Letter, Emails and Phone Calls	Interested in assigning, waiting on response				
Chisos, Ltd.	Letter, Emails and Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
ConocoPhillips Company	Letter, Emails and Phone Calls	Made multiple offers, pulled from Longfellow's multi tract offer due to competing offer				
Julia Ann Hightower Barnett	Letter, Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
MEC Petroleum Corp.	Letter, Emails and Phone Calls	Not interested in assigning, most likely will sign JOA and participate				
Joel M. Carson	Letter, Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner				
Vladin, LLC	Letter, Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner				
Mark Wilson Family Partnership, LP	Letter, Emails and Phone Calls	Interested in assigning, checking with other parties in the area for \$ amount				
Losee Investments, LLC	Letter, Emails and Phone Calls	Agreed to terms to acquire interest, assignment is forthcoming				
G.P.C. Oil and Gas Corp.	Letter, Phone Calls	Letter offer, haven't received a response, multiple attemps to reach owner				

Exhibit A-6 Longfellow Energy, LP

NMOCD Case No. 21651 June 17, 2021

Form C-102

Revised August 1,

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

Santa Fe, NM 87505

State of New Mexico

District Office ■ AMENDED REPORT

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1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

1625 N. French Dr., Hobbs, NM 88240

811 S. First St., Artesia, NM 88210

Phone: (575) 393-6161 Fax: (575) 393-0720

Phone: (575) 748-1283 Fax: (575) 748-9720

District I

District II

District III

WELL LOCATION AND ACREAGE DEDICATION PLAT

HENDRIX STATE COM 1314 ABX OUT OF THE NORTH STATE COM 1314 ABX OUT OF THE NORTH STATE COM 1314 ABX OUT OF THE NORTH STATE COM 1314 ABX	¹ API Number							
HENDRIX STATE COM 1314 ABX OU OGRID No. Operator Name Output Outp	⁴ Property Code	⁶ Well Number						
T	Tr. V	001H						
1 ONCERT OW ENERGY ID	⁷ OGRID No. ⁸ Operator Name							
372210 LONGFELLOW ENERGY, LP 360	372210 LONGFELLOW ENERGY, LP							

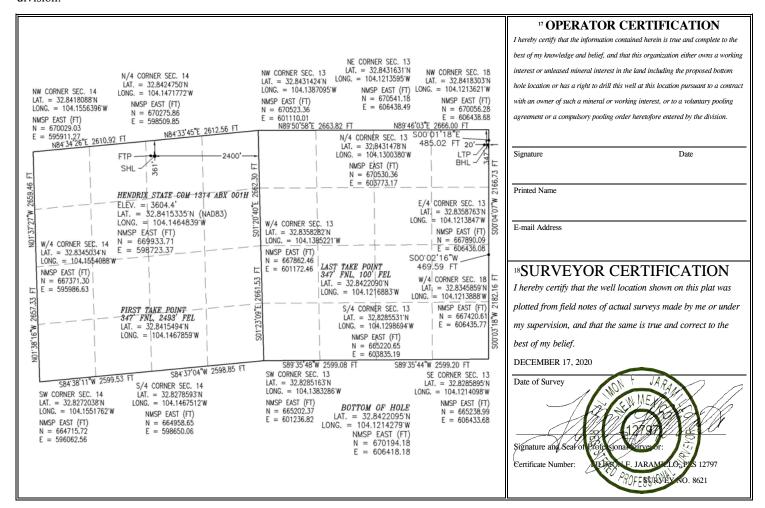
Surface Location

UL or lot no.	East/West line	County										
В	B 14 17 S 28 E 361 NORTH 2400 EAST											
Pottom Hola I ocetion If Different From Surface												

Bottom Hole Location If Different From Surface

				Bottom Hole Eccution 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						
A	13	17 S	28 E		347	NORTH	20	EAST	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.



Intent		As Drill	ed									
API#												
Ope	rator Nan	ne:	<u> </u>			Property	Name:	:				Well Number
LON	IGFELLO	W ENERG	Y, LP			НЕ	NDRI	X STA	TE CON	1 1314 <i>A</i>	ABX	001H
Kick C	off Point (кор)										
UL B	Section 14	Township 17S	Range 28E	Lot	Feet 361	From NOI	N/S RTH	Feet 240	0 F	rom E/W	County EDDY	
Latitu		15335			Longitu	de 104.1 4	6483	89	ı		NAD 83	
First T	ake Poin	t (FTP)										
UL B	Section 14	Township 17S	Range 28E	Lot	Feet 347	From NO I	N/S RTH	Feet 249	3 F	rom E/W AST	County EDDY	
Latitu	^{de} 32.841	5494			Longitu	de 104.14 6	57859	9			NAD 83	1
Last T UL A	ake Point Section 13	Township 17S	Range 28E	Lot	Feet 347	From N/S NORTH	Feet 10 0		From E/\ EAST	V Coun	ty Y	
Latitu		422090		<u> </u>	Longitu	de 104.12	1688	3		NAD	83	
		defining wo	ell for the	Horizo	ontal Spa	cing Unit?	[]			
	I is yes p ng Unit.	lease prov	ide API i	f availa	able, Ope	erator Nan	ne and	l well	number	for Defi	ning well	for Horizontal
Ope	rator Nan	ne:				Property	Name:	:				Well Number

KZ 06/29/2018

District.1
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District.II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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.

Santa Fe, NM 87505

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Revised August 1,
2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er	² Pool Code	³ Pool Name	
⁴ Property Code		⁵ Pr	coperty Name	⁶ Well Number
		HENDRIX ST.	ATE COM 1314 ABX	002H
⁷ OGRID No.		8 O ₁	perator Name	⁹ Elevation
372210		LONGFELL	OW ENERGY, LP	3604.2

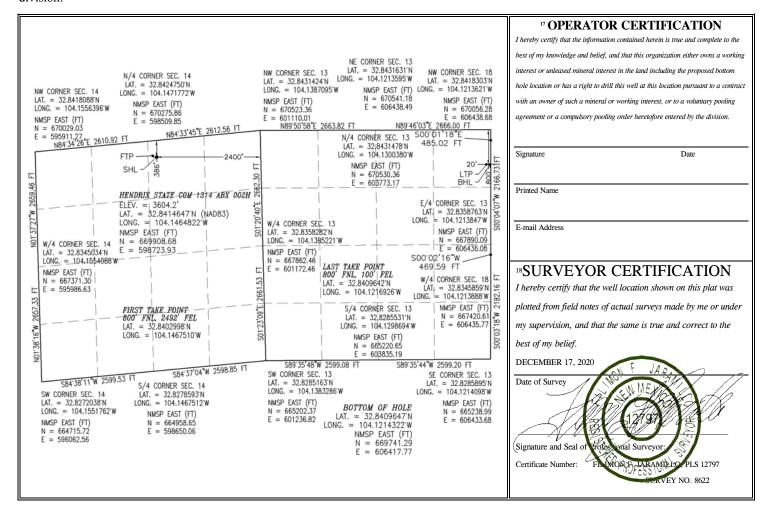
¹⁰ Surface Location

UL or lot no.	East/West line	County										
B 14 17 S 28 E 386 NORTH 2400 EAST												
" Dottom Hole Location If Different From Surface												

Bottom Hole Location If Different From Surface

UL or lot no.	Section 13	Township 17 S	Range 28 E	Lot Idn	Feet from the 800	North/South line NORTH	Feet from the 20	East/West line EAST	County EDDY
¹² Dedicated Acre	s ¹³ Joint	or Infill 14 (Consolidation	1 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:	1			Propert	y Name:						Well Number
LON	GFELLO	W ENERG	Y, LP			ı	HENDRI	X STA	ATE CO	M 13	14 A	BX	002H
Kick O	ff Point (KOP)											
UL B	Section 14	Township 17S	Range 28E	Lot	Feet 386	Fro N (om N/S ORTH	Feet 240		From EAS 1	E/W	County EDDY	
Latitu		14647		l	Longitu		L46482	22	ı			NAD 83	
First T	ake Poin	t (FTP)	Range	Lot	Feet	Fro	om N/S	Feet		From	F/W	County	
В	14	17S	28E	Lot	800	N	ORTH	249		EAST	Γ	EDDY	
Latitu	de 32.840	2998			Longitu		467510)				NAD 83	
UL A	Section	Township 17S	Range 28E	Lot	Feet 800	From N,	/S Feet	t D	From E EAST		Count EDD		
Latitu		409642			Longitu		21692	6			NAD	83	
		defining wo	ell for the	Horizo	ontal Spa	icing Unit	? [
	I is yes p	olease prov	ide API if	availa	able, Ope	erator Na	ame and	l well	numbe	er for	Defi	ning well	for Horizontal
Oper	ator Nan	ne:	<u> </u>			Propert	y Name:						Well Number

KZ 06/29/2018

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

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Santa Fe, NM 87505

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2011
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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Numbe	er	² Pool Code	³ Pool Name	
⁴ Property Code		⁵ Pr	coperty Name	⁶ Well Number
		HENDRIX ST.	ATE COM 1314 ABX	003H
⁷ OGRID No.		8 O ₁	perator Name	⁹ Elevation
372210		LONGFELL	OW ENERGY, LP	3601.7

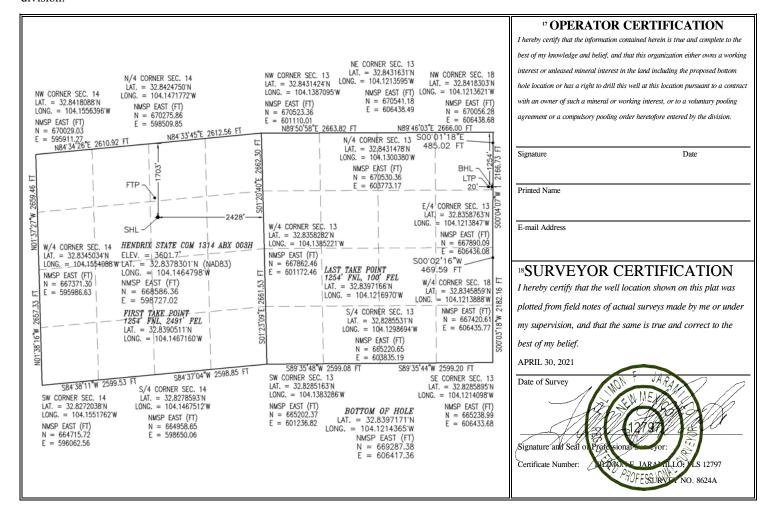
¹⁰ Surface Location

UL or lot no.														
G 14 17 S 28 E 1703 NORTH 2428 EAST														
" Dottom Hala Lagation If Different Evem Surface														

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section 13	Township 17 S	Range 28 E	Lot Idn	Feet from the 1254	North/South line NORTH	Feet from the 20	East/West line EAST	County EDDY
¹² Dedicated Acre	es 13 Joint	or Infill	Consolidatio	n Code			15 Order No.		

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



	•		, <u> </u>										
API#													
Ope	rator Nan	ne:				Property N	ame:				Well Numbe		
LON	NGFELLO	W ENERG	Y, LP			HEN	IDRI)	(STATE C	OM 131	4 ABX	003H		
					,								
	Off Point (Danas.		Foot	N	lc.	Faat		NA Country			
G G	Section 14	Township 17S	Range 28E	Lot	Feet 1703	From N NOR	/S Γ H	Feet 2428	From E/ EAST	W County EDDY			
Latitu		78301			Longitud	^{le} 104.146	479	8		NAD 8	3		
First 7	Take Poin	t (FTP)											
UL B	Section 14	Township 17S	Range 28E	Lot	Feet 1254	From N NOR1	/S 「H	Feet 2491	From E/	W County EDDY			
Latitu	ıde 32.839	0511		<u> </u>	Longitud	tude 104.1467160					NAD 83		
	<u> </u>					10 111 107							
₋ast T	ake Point	t (LTP)											
UL A	Section 13	Township 17S	Range 28E	Lot	Feet 1254	From N/S NORTH	Feet 100	From EAS	E/W C	ounty DDY			
Latitu	ıde		201		Longitud	l <u> </u>				AD	•		
	32.8	397166				104.121	69/	J		8	3		
s this	s well the	defining w	ell for the	Horizo	ntal Spac	cing Unit?	Γ						
s this	well the	defining w	ell for the	Horizo	ntal Spac	cing Unit?							
		defining w	ell for the	Horizo	ntal Spac	cing Unit?							
		_	ell for the	Horizo	ntal Spac	cing Unit?							
s this f infi	s well an i	nfill well?]		e and	well num	ber for D	efining we	ll for Horizonta		
s this f infi	s well an i II is yes p ng Unit.	nfill well?]		e and	well num	ber for D	efining we			
s this f infi Spaci	s well an i II is yes p ng Unit.	nfill well? blease prov]	rator Name		well num	ber for D	Defining we	ll for Horizonta		
s this f infi Spaci	s well an i II is yes p ng Unit.	nfill well? blease prov]			well num	ber for D	Defining we			

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Santa Fe, NM 87505

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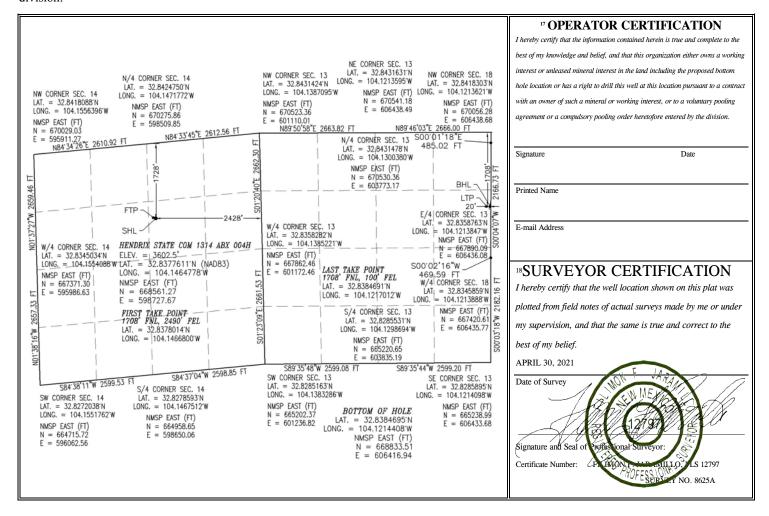
WELL LOCATION AND ACREAGE DEDICATION PLAT

1 001 0040	² Pool Code ³ Pool Name				
⁵ Pro	pperty Name	⁶ Well Number			
HENDRIX STA	HENDRIX STATE COM 1314 ABX				
⁸ Ope	⁸ Operator Name LONGFELLOW ENERGY, LP				
LONGFELLO					
	HENDRIX STA	⁸ Operator Name			

UL or lot no.	Section	1 ownsnip	Kange	Lot Ian	Feet from the	North/South line	Feet from the	East/ west line	County
\mathbf{G}	14	17 S	28 E		1728	NORTH	2428	EAST	EDDY
			11 E	Bottom H	ole Location	If Different Fr	om Surface		

UL or lot no. Section Township Lot Idn Feet from the North/South line Feet from the East/West line Range County 1708 Η 13 17 S 28 E NORTH 20 **EAST 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:	1			Property	/ Name:						Well Number
LON	GFELLO	W ENERG	Y, LP			Н	ENDRI	X STA	ATE CO	M 13	314 A	ΔBX	004H
Kick O	ff Point (KOP)			·								
UL G	Section 14	Township 17S	Range 28E	Lot	Feet 1728	Froi	n N/S DRTH	Feet 242		From EAS	E/W T	County EDDY	
Latitu		77611			Longitu	de 104.1	46477	78				NAD 83	
	ake Poin				Γ = .	1	N. /C	Ι			<i>-</i> // <i>-</i>		
G G	Section 14	Township 17S	Range 28E	Lot	Feet 1708	NC NC	n N/S PRTH	Feet 249		From EAS	T	County EDDY	
Latitu	^{de} 32.837	8014			Longitu	Longitude NAD 104.1466800						NAD 83	
UL H	Section 13	Township 17S	Range 28E	Lot	Feet 1708	From N/S	Feet 10 0	:)	From E EAST		Count EDD		
Latitu		384691			Longitu	de 104.1	21701	2			NAD	83	
		defining wo	ell for the	Horizo	ontal Spa	cing Unití	? [
	I is yes p	olease prov	ide API if	availa	able, Ope	erator Na	me and	l well	numbo	er for	Defii	ning well	for Horizontal
Oper	ator Nan	ne:				Property	/ Name:						Well Number

KZ 06/29/2018

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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Santa Fe, NM 87505

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WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		² Pool Code		
⁴ Property Code		5 D.	roperty Name	⁶ Well Number
Property Code				
		HENDRIX ST	ATE COM 1314 ABX	005Н
⁷ OGRID No.		8 O ₁	perator Name	⁹ Elevation
372210		LONGFELL	OW ENERGY, LP	3602.1

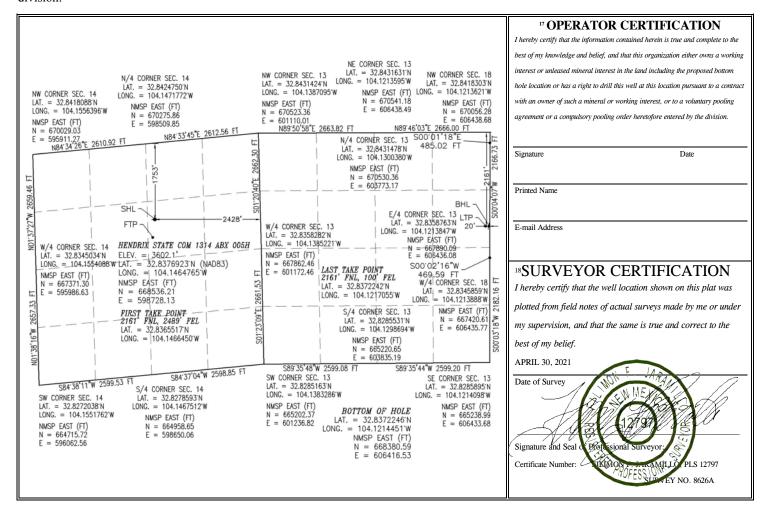
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	14	17 S	28 E		1753	NORTH	2428	EAST	EDDY
			11 P	ottom H	ole Location	If Different Fr	om Surface		

Bollotti Hole Location ii Different From Surfac

UL or lot no.	Section 13	Township 17 S	Range 28 E	Lot Idn	Feet from the 2161	North/South line NORTH	Feet from the 20	East/West line EAST	County EDDY
¹² Dedicated Acre	s 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.



			٦											
API#					ı									
	rator Nan					Property Name:							Well Numbe	
LON	IGFELLO	W ENERG	iY, LP			HEN	NDRI	X STA	TE CO	M 131	L4 A	BX	005H	
	off Point (I .	T	Τ= .	1	1.15	T			// //			
G G	Section 14	Township 17S	Range 28E	Lot	Feet 1753	From N NOR	1/S TH	Feet 242 3	8	From E, EAST	/W	County EDDY		
Latitu		76923			Longitu	104.146	6476	55				NAD 83	3	
irst T	ake Poin	t (FTP)												
UL G	Section 14	Township 17S	Range 28E	Lot	Feet 2161	From N NOR		Feet 248 9	9	From E,	/W	County EDDY		
Latitu	l de 32.836	 		1	Longitu	de 104.1466	5/JE(<u> </u>				NAD 83		
	J2.030				ļ	104.1400	U-30					0,	,	
.ast T	ake Point	t (LTP)												
UL	Section	Township	Range	Lot	Feet	From N/S	Feet		From E	<u>:</u> /w c	Count	<u>,</u>		
	Section 13	Township 17S	Range 28E	Lot	Feet 2161 Longitu	NORTH de	100)	From E EAST	E	Count E DD NAD	Ý		
UL H	Section 13	Township	Range 28E	Lot	2161	NORTH	100)		E	DD	ў Ү	<u> </u>	
UL H	Section 13	Township 17S	Range 28E	Lot	2161	NORTH de	100)		E	DD	Ý	3	
UL H Latitu	Section 13 de 32.8	Township 17S 372242	28E		2161 Longitu	NORTH 104.121	100)		E	DD	Ý	}	
UL H Latitu	Section 13 de 32.8	Township 17S	28E		2161 Longitu	NORTH 104.121	100)		E	DD	Ý		
UL H Latitu	Section 13 de 32.83	Township 17S 372242 defining w	28E		2161 Longitu	NORTH 104.121	100)		E	DD	Ý	}	
UL H Latitu	Section 13 de 32.83	Township 17S 372242	28E		2161 Longitu	NORTH 104.121	100)		E	DD	Ý	}	
Latitu s this	section 13 de 32.83 well the well an i	Township 17S 372242 defining w	ell for the	e Horiz	2161 Longitu ontal Spa	nORTH de 104.121 cing Unit?	100	5	EAST	- E	NAD	<u>Ý</u> 83	for Horizonta	
Latitu s this f infil	section 13 de 32.83 well the well an in I is yes pagunit.	Township 17S 372242 defining w	ell for the	e Horiz	2161 Longitu ontal Spa	nORTH de 104.121 cing Unit?	100	5	EAST	- E	NAD	<u>Ý</u> 83		
Latitudes this described the stress that the s	section 13 de 32.83 well the well an in I is yes pagunit.	Township 17S 372242 defining w	ell for the	e Horiz	2161 Longitu ontal Spa	nORTH de 104.121 cing Unit?	100	5	EAST	- E	NAD	<u>Ý</u> 83		
Latitu s this f infil Spacin	section 13 de 32.83 well the well an in I is yes pagunit.	Township 17S 372242 defining w nfill well?	ell for the	e Horiz	2161 Longitu ontal Spa	nORTH de 104.121 cing Unit?	100 1705	5 well	EAST	- E	NAD	<u>Ý</u> 83		

KZ 06/29/2018

Exhibit A-7 Longfellow Energy, LP NMOCD Case No. 21651 June 17, 2021



November 30, 2020

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

Re: Well Proposals Hendrix State Com 1314 ABX 001H, 002H, 003H, 004H, 005H NE/4 of Section 14 and N/2 of Section 13-17S-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":

- Hendrix State Com 1314 ABX 001H, with an approximate total vertical depth of 3,800', as a horizontal well in the Yeso formation (with an approximate measured depth of 11,350') and an estimated cost of \$4,795,387 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/30/2020
- Hendrix State Com 1314 ABX 002H, with an approximate total vertical depth of 4,200', as a horizontal well in the Yeso formation (with an approximate measured depth of 11,750') and an estimated cost of \$4,795,387 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/30/2020
- Hendrix State Com 1314 ABX 003H, with an approximate total vertical depth of 3,800', as a horizontal well in the Yeso formation (with an approximate measured depth of 11,350') and an estimated cost of \$4,795,387 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/30/2020
- Hendrix State Com 1314 ABX 004H, with an approximate total vertical depth of 4,200', as a horizontal well in the Yeso formation (with an approximate measured depth of 11,750') and an estimated cost of \$4,795,387 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/30/2020
- Hendrix State Com 1314 ABX 005H, with an approximate total vertical depth of 3,800', as a horizontal well in the Yeso formation (with an approximate measured depth of 11,350') and an estimated cost of \$4,795,387 for a completed producing well, as set forth in detail on the enclosed AFE Well Cost Estimate dated 11/30/2020

To facilitate these wells and for efficient development, Longfellow proposes to form a Working Interest Unit (the "WIU") covering the NE/4 of Section 14 and the N/2 of Section 13-17S-28E, containing approximately 480 acres. These lands are governed by joint operating agreements ("JOAs") which include the Yeso formation. For development of horizontal Yeso wells within the WIU, Longfellow proposes a new horizontal joint operating agreement, 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, containing the following provisions:

- Contract Area being the NE/4 of 14 and the N/2 of Section 13-17S-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")

Hendrix State Com 1314 ABX 001H, 002H, 003H, 004H, 005H Well Proposals November 30, 2020

Option 3 - Assign all of your leasehold rights, and the existing wells 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.

LONGFELLOW ENERGY, LP

Ryan Culpepper Land Manager

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

Option 2. The undersigned elects to not participate in the drilling and completion of the proposed well, 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, in the NE/4 of Section 14 and the N/2 of Section 13-17S-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:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	314 ABX			WELL NO.	001H	FIELD:	Loco Hills	AFE #: 420	DATE:	11/30/2020
LOCATION:	SHL	365'	FNL	2,403'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	344'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		Es	stimated	<u>a</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hill	s Project -	Eddy County	. NM						REVIEWED	BY:	DM

,				
	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
		Didizing	COMPLETION	JOHN DESCRIPTION OF THE PROPERTY OF THE PROPER
1-00	** IDC - DRILLING **			l
1-02	Rig Diesel	\$41,556		
1-03	Rig Rentals	\$24,444		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$22,500		
1-07	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$20,333		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$45,000		
1-19	Drilling Overhead	\$31,250		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-20	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$116,250		
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		
1-26	Drilling Mud & Transportation	\$35,000		
1-27	Mud Diesel	\$0		
1-28	Mud Logging & Geo-steering	\$18,750		
1-29	Mud Remediation	\$55,000		1 -
1-29	Drill String & BHA Rental	\$7,500	-	
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
	Contract Daywork Drilling	\$0		
1-34	16.5 days @ \$13,333 / day	\$217,500		
1-36	Casing Crews, PU & LD	\$21,000		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$21,000		
1-42	Water - Fresh / Brine	\$50,000		
	Waste Water / Mud Disposal	\$5,000		
1-43				
1-44	Well Control Equipment	\$0		
1-46	Trash Trailer	\$2,200		
1-48	Surface Pipe Cementing	\$20,000		
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$30,079		
1-52	Production Casing Cementing	\$47,500		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$116,656		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,900		
1-64	Miscellaneous Drilling	\$14,000		
1-66	Welding During Drilling	\$3,500		
1-68	Miscellaneous Equipment Rentals	\$46,876		
1-70	Centralizers & Float Equipment	\$32,000		
	TOTAL INTANGIBLE DRILLING COSTS:		40	i
	TOTAL INTANGIBLE DRILLING COSTS:	\$1,167,794	\$0	
	m. Verby P. D. V. V. Verene			
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR	GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C 1250	\$22,295		
2-04		\$99,760		
2-06	7" L-80 32.00 BT&C 4100	\$113,792		
	5-1/2" L-80 20.00 BT&C 6100	\$0		1
DRILLING	- SURFACE EQUIPMENT	\$0		1 -
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		<u> </u>
	TOTAL TANGIBLE DRILLING COSTS:	\$245,847	\$0	i ====================================
	TOTAL TANGIBLE DIKILLING COSTS:	φ243,847	\$0	



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	1314 ABX			WELL NO.	001H	FIELD:	Loco Hills	AFE #: 420	DATE:	11/30/2020
LOCATION:	SHL	365'	FNL	2,403'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	344'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		E	stimated	<u>@</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
DEMADES.		Loco Hill	e Project -	Eddy County	NM						DEVIEWED	DV.	DM

REMARKS:	Loco Hills Project - Eddy County, NM		2,500	R TVD	HORIZONTAL	REVIEWED BY:	DM
		1		1			
	INTANGIBLE COMPLETION COSTS:		DRILLING	1	COMPLETION		SUPPLEMENTAL
3-00	** IDC - COMPLETION **					<u> </u>	
3-02	Acidizing				\$0		
3-04	Fracturing				\$1,080,000		
3-06	Perforating				\$140,000	<u> </u>	
3-08	Cased Hole Logging				\$5,000	ļ <u> </u>	
3-10	CO2 / Boosters Electrician / Electrical Services				\$35,000 \$36,840	 	
3-12 3-14	Equipment Rentals				\$20,000	 	
3-14	Rentals- Potties, Lights, Trash Trailers				\$15,000	 	
3-16	Frac Tank Rentals			1	\$20,000	<u> </u>	
3-18	Restore Location				\$10,000		
3-20	Right - Of - Way				\$6,311		
3-22	Roustabout Crews				\$61,206		
3-23	Cement Plugs/Bridge Plugs				\$32,000		
3-24	Supervision				\$18,000		
3-25	Completion Overhead				\$10,500		
3-26	Trucking				\$22,000		
3-27	Water Transfer- 10", Poly, Fill Pit				\$50,000	. ⊢	
3-28	Water Hauling - Fresh				\$685,800	<u> </u>	
3-29 3-30	SW Disposal- Hauling, Paid Disposal, Poly Slickline Work	1	-	ł	\$150,000 \$0	├	
3-30	Technical Labor			1	\$23,100	├	
3-31	Reverse Unit / Power Swivel			1	\$60,000		
3-33	Trucking- Kill Truck				\$0	1 -	
	Completion Rig / Daywork			1	\$0	1 -	
3-34	4.0 days @ <u>\$7,600</u> / day				\$60,000		
3-36	Anchors				\$2,500		
3-38	Drill bits, Unde-reamers, Etc.				\$10,000		
3-40	Coiled Tubing Unit				\$0		
3-42	Completion Fluids - Mud, Etc.				\$13,000	<u> </u>	
3-44	DH Tool Rental				\$23,000		
3-46	Fishing Tool Rental				\$0	<u> </u>	
3-48 3-50	Tubing Testing & Inspection Press Control Equip Rental-BOPE, Frac Stack, Lubricator				\$11,500 \$135,000	<u> </u>	
3-50	Well Testing Equipment & Labor				\$5,000	 	
3-54	Miscellaneous Completion				\$5,000	 	
3-56	Contingencies Completion				\$254,129		
	TAL INTANGIBLE COMPLETION COSTS:	!]		i	\$2,999,886	i <u>–</u>	
10.				<u>.</u>	φ2,777,000	! <u>-</u>	
	TANGIBLE COMPLETION COSTS:		DRILLING		COMPLETION		SUPPLEMENTAL
4-00	** IDC - COMPLETION **						
4-01	Tubing			1	\$20,000		
4-02	Packers				\$0		
4-04	Plugs				\$0		
4-06	Blast Joint				\$0		
4-08	Miscellaneous Completion Equipment				\$19,496		
4-09	Environmental Equipment				\$4,872	<u> </u>	
4-10	Compression Equipment			-	\$0	├	
4-12 4-14	Dehydration Equipment Electrical Equipment Motors Etc.			-	\$0 \$4.272	├	
4-14 4-15	Electrical Equipment - Motors, Etc. Automation Equipment			1	\$4,272 \$5,340	├	
4-13	Injection / Transfer Pump				\$3,340 \$13,251		
4-18	Meter & Meter Run	1		1	\$25,666	1 -	
4-20	Salt Water Tanks				\$24,113	1 -	
4-22	Production Tanks	1		1	\$0	1	
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 2 4		ī		-	\$6,094	├	
4-34	Valves, Gauges and Miscellaneous	ł			\$5,000	1	
4-38	Artificial Lift and Accessories					T	
4-38 4-40	Artificial Lift and Accessories Flowline				\$13,500] _	
4-38 4-40	Artificial Lift and Accessories]			
4-38 4-40	Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:		\$1,413,641]]]	\$13,500		
4-38 4-40 TOTAL DRILL	Artificial Lift and Accessories Flowline TAL TANGIBLE COMPLETION COSTS:		\$1,413,641]]]	\$13,500		
4-38 4-40 TOTAL DRILL TOTAL COMP	Artificial Lift and Accessories Flowline DTAL TANGIBLE COMPLETION COSTS: LING COST PLETION COST		\$1,413,641]]]	\$13,500 \$381,859 \$3,381,745		
4-38 4-40 TOTAL DRILL TOTAL COMP	Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LING COST		\$1,413,641]	\$13,500 \$381,859		
4-38 4-40 TOTAL DRILLA TOTAL COMI	Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LING COST PLETION COST COMPLETED WELL COST		\$1,413,641	<u> </u> 	\$13,500 \$381,859 \$3,381,745		
4-38 4-40 TOTAL DRILL TOTAL COMP	Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LING COST PLETION COST COMPLETED WELL COST		\$1,413,641]]]	\$13,500 \$381,859 \$3,381,745		
4-38 4-40 TOTAL DRILLA TOTAL COMI	Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LING COST PLETION COST COMPLETED WELL COST		\$1,413,641]	\$13,500 \$381,859 \$3,381,745		
4-38 4-40 TOTAL DRILL TOTAL COM TOTAL COM Approved by	Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LING COST PLETION COST COMPLETED WELL COST		\$1,413,641	[]]	\$13,500 \$381,859 \$3,381,745		

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OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com	1314 ABX			WELL NO.	002H	FIELD:	Loco Hills	AFE #: 421	DATE:	11/30/2020
LOCATION:	SHL	390'	FNL	2,403'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,750'	ft (MD)	
	BHL	800'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		Es	timated	<u>a</u>	4,200'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hill	s Project -	Eddy County	. NM						REVIEWED	BY:	DM

REMARKS:	Loco Thiis Project - Eddy County, INVI			KEVIEWED B1; DIVI
	HITCH CONTRACTOR OF THE CONTRA		COLON POWER	CYTRAY FLORIDA
	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$41,556		1
1-03	Rig Rentals	\$24,444		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$22,500		
				1
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$20,333		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$45,000		
1-19	Drilling Overhead	\$31,250		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$116,250		├
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		<u> </u>
1-26	Drilling Mud & Transportation	\$35,000		
1-27	Mud Diesel	\$0		1
				1
1-28	Mud Logging & Geo-steering	\$18,750		.
1-29	Mud Remediation	\$55,000		
1-30	Drill String & BHA Rental	\$7,500		
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
1-32				
	Contract Daywork Drilling	\$0		
1-34	16.5 days @ \$13,333 / day	\$217,500		
1-36	Casing Crews, PU & LD	\$21,000		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$21,000		
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	\$2,200		1
		\$20,000		
1-48	Surface Pipe Cementing			
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$30,079		
1-52	Production Casing Cementing	\$47,500		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$116,656		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,900		
1-64	Miscellaneous Drilling	\$14,000		
1-66	Welding During Drilling	\$3,500		1
	Miscellaneous Equipment Rentals			1
1-68		\$46,876		l
1-70	Centralizers & Float Equipment	\$32,000	<u> </u>	<u> </u>
	TOTAL INTANGIBLE DRILLING COSTS:	\$1,167,794	\$0	
-		+-,,,//	40	1
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	CUDDI EMENTELI
		DKILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TURITAR	GOODS (Surf., Inter., Prod., Tbg)			i
TODULAR				
L	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C 1250	\$22,295		
2-04		\$99,760		
2-06	7" L-80 32.00 BT&C 4100	\$113,792		1
2-00				1
	5-1/2" L-80 20.00 BT&C 6100	\$0		
	SURFACE EQUIPMENT	\$0		
2-10	Casinghead(s)	\$10,000		
2-12	Liner Hanger & Packer	\$0		
2-14	Open Hole Packers and Sleeves	\$0		1
				1 -
2-16	Miscellaneous	\$0		·
2-18	Flowline & Valves	\$0	<u> </u>	
	TOTAL TANGIBLE DRILLING COSTS:	\$245,847	\$0	1 =====================================
	TOTAL TANGIBLE DIVILLING COSTS:	\$243,847	\$0	·
				1 1



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	1314 ABX			WELL NO.	002H	FIELD:	Loco Hills	AFE #: 421	DATE:	11/30/2020
LOCATION:	SHL	390'	FNL	2,403'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,750'	ft (MD)	
	BHL	800'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		E	stimated	<u>@</u>	4,200'	ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.		Loco Hill	e Project -	Eddy County	NM						DEVIEWED	DV.	DM

REMARKS:	Loco Hills Project - Eddy County, NM			REVIEWED BY: DM
	DIMENSIPE COMPLETION COSTS	DDWANG	COMPLETION	CLIDAL ELIZABATA
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **		<u> </u>	
3-02	Acidizing		\$0	
3-04	Fracturing		\$1,080,000	
3-06	Perforating		\$140,000	
3-08	Cased Hole Logging		\$5,000	
3-10	CO2 / Boosters		\$35,000 \$36,840	
3-12 3-14	Electrician / Electrical Services Equipment Rentals		\$30,840	-
3-14	Rentals- Potties, Lights, Trash Trailers		\$15,000	
3-16	Frac Tank Rentals		\$20,000	
3-18	Restore Location		\$10,000	
3-20	Right - Of - Way		\$6,311	
3-22	Roustabout Crews		\$61,206	
3-23	Cement Plugs/Bridge Plugs		\$32,000	
3-24	Supervision		\$18,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$50,000	
3-28	Water Hauling - Fresh		\$685,800	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	<u> </u>
3-30	Slickline Work Technical Labor	l	\$0 \$23,100	
3-31 3-32	Reverse Unit / Power Swivel	l	\$23,100	1
3-32	Trucking- Kill Truck		\$0	
3-33	Completion Rig / Daywork		\$0	1
3-34	4.0 days @ \$7,600 / day		\$60,000	
3-36	Anchors		\$2,500	
3-38	Drill bits, Unde-reamers, Etc.		\$10,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$13,000	
3-44	DH Tool Rental		\$23,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$11,500	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$135,000	
3-52 3-54	Well Testing Equipment & Labor		\$5,000 \$5,000	
3-56	Miscellaneous Completion Contingencies Completion	-	\$254,129	-
				<u> </u>
10	TAL INTANGIBLE COMPLETION COSTS:		\$2,999,886	
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
4-00	** IDC - COMPLETION **			
4-01	Tubing	i	\$20,000	
4-02	Packers		\$0	
4-04	Plugs		\$0	
4-06	Blast Joint		\$0	
4-08	Miscellaneous Completion Equipment		\$19,496	
4-09	Environmental Equipment		\$4,872	
4-10	Compression Equipment		\$0	
4-12	Dehydration Equipment	ļ <u> </u>	\$0	
4-14	Electrical Equipment - Motors, Etc.		\$4,272	
4-15	Automation Equipment	l	\$5,340	l
4-16 4-18	Injection / Transfer Pump Meter & Meter Run	l	\$13,251 \$25,666	l —
4-18 4-20	Salt Water Tanks	l	\$25,666 \$24,113	1
4-20	Production Tanks		\$24,113	
4-24	Separation Equipment		\$55,254	1
4-26	Pump		\$175,000	1
4-28	Pumping Unit		\$0	1
4-30	Rod String		\$0	
4-32	Tubing Head		\$10,000	
4-34	Valves, Gauges and Miscellaneous		\$6,094	
4-38	Artificial Lift and Accessories		\$5,000	
4-40	Flowline		\$13,500	
Te	OTAL TANGIBLE COMPLETION COSTS:		\$381,859	
TOTAL DRIL	LING COST	\$1,413,641	7	
	PLETION COST	Ψ1,713,041	\$3,381,745	
		J 1		J
TOTAL C	COMPLETED WELL COST		\$4,795,387	
		1		
Approved b	y:	_		
Covers				
Company:		-		
Title:		_		

_____Day of



OPERATOR:		Longfellov	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	003H	FIELD:	Loco Hills	AFE #: 422	DATE:	11/30/2020
LOCATION:	SHL	1,715'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	1,255'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		Es	stimated	<u>a</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hills	Project -	Eddy County	NM						REVIEWED	RV:	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1.00	** IDC - DRILLING **			
1-00		P41.556		
1-02	Rig Diesel	\$41,556		
1-03	Rig Rentals	\$24,444		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
		\$22,500		
1-07	Title Opinion / Regulatory Fees			
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$20,333		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$45,000		
1-19	Drilling Overhead	\$31,250		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$116,250		
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		
1-26	Drilling Mud & Transportation	\$35,000		
1-27	Mud Diesel	\$0		
1-28	Mud Logging & Geo-steering	\$18,750		
1-29	Mud Remediation	\$55,000		
	Drill String & BHA Rental	\$7,500		
1-30				
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
	Contract Daywork Drilling	\$0		
1-34	16.5 days @ \$13,333 / day	\$217,500		
1-36	Casing Crews, PU & LD	\$21,000		
	Fishing Tool Rentals	\$0		
1-38				
1-40	Rathole / Mousehole / Conductor	\$21,000		
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	\$2,200		
1-48	Surface Pipe Cementing	\$20,000		
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$30,079		
1-52	Production Casing Cementing	\$47,500		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$116,656		
1-60	Surface Damages	\$3,750		
1-62		\$2,900		
	Rotating Head & Expendables		<u> </u>	
1-64	Miscellaneous Drilling	\$14,000		
1-66	Welding During Drilling	\$3,500		
1-68	Miscellaneous Equipment Rentals	\$46,876		
1-70	Centralizers & Float Equipment	\$32,000		
<u> </u>			do	
	TOTAL INTANGIBLE DRILLING COSTS:	\$1,167,794	\$0	
	THE LOCAL PROPERTY OF THE PROP			
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR G	GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C 1250	\$22,295		
2-04		\$99,760		
2-06	7" L-80 32.00 BT&C 4100	\$113,792		
	5-1/2" L-80 20.00 BT&C 6100	\$0		
DDILLING	SURFACE EQUIPMENT	\$0		
				<u> </u>
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		
2-10				
	TOTAL TANGIBLE DRILLING COSTS:	\$245,847	\$0	



OPERATOR:		Longfellov	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	003H	FIELD:	Loco Hills	AFE #: 422	DATE:	11/30/2020
LOCATION:	SHL	1,715'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	1,255'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		E	stimated	<u>@</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.		Loco Hille	Project -	Eddy County	NM						DEVIEWED	DV.	DM

REMARKS:	Loco Hills Project - Eddy County, NM			REVIEWED BY: DM
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **	DALLING	COMPLETION	COTTEMENTAL
				i
3-02 3-04	Acidizing Fracturing		\$0 \$1,080,000	1
3-04	Perforating		\$140,000	
3-08	Cased Hole Logging		\$5,000	1
3-10	CO2 / Boosters		\$35,000	
3-12	Electrician / Electrical Services		\$36,840	
3-14	Equipment Rentals		\$20,000	
3-15	Rentals- Potties, Lights, Trash Trailers		\$15,000	
3-16	Frac Tank Rentals	<u> </u>	\$20,000	
3-18	Restore Location		\$10,000	-
3-20	Right - Of - Way	<u> </u>	\$6,311 \$61,206	· -
3-22 3-23	Roustabout Crews Cement Plugs/Bridge Plugs		\$32,000	1
3-24	Supervision		\$18,000	1
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$50,000	1
3-28	Water Hauling - Fresh		\$685,800	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
3-30	Slickline Work	<u> </u>	\$0	
3-31	Technical Labor		\$23,100	-
3-32	Reverse Unit / Power Swivel Trucking- Kill Truck		\$60,000	1
3-33	Completion Rig / Daywork	l	\$0 \$0	1
3-34	4.0 days @ \$7,600 / day		\$60,000	
3-36	Anchors		\$2,500	i
3-38	Drill bits, Unde-reamers, Etc.		\$10,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$13,000	
3-44	DH Tool Rental		\$23,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection	<u> </u>	\$11,500	
3-50	Press Control Equip Rental-BOPE, Frac Stack, Lubricator		\$135,000	
3-52 3-54	Well Testing Equipment & Labor Miscellaneous Completion	<u> </u>	\$5,000 \$5,000	· -
3-56	Contingencies Completion		\$254,129	
	OTAL INTANGIBLE COMPLETION COSTS:		\$2,999,886	i
10	OTAL INTANGIBLE COMPLETION COSTS:		\$2,999,880	<u> </u>
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
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		\$19,496	<u> </u>
4-09 4-10	Environmental Equipment	<u> </u>	\$4,872	<u> </u>
4-10 4-12	Compression Equipment Dehydration Equipment	l	\$0 \$0	
4-12	Electrical Equipment - Motors, Etc.		\$4,272	1
4-15	Automation Equipment		\$5,340	1
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	<u> </u>	\$0	
4-24	Separation Equipment		\$55,254	l
4-26	Pump Pumping Unit	l	\$175,000	1
4-28 4-30	Pumping Unit Rod String		\$0 \$0	1 -
4-30 4-32	Tubing Head		\$10,000	1
4-34	Valves, Gauges and Miscellaneous		\$6,094	1
4-38	Artificial Lift and Accessories		\$5,000	1
4-40	Flowline		\$13,500	
T	OTAL TANGIBLE COMPLETION COSTS:		\$381,859	i
TOTAL DRIL		\$1,413,641]	
		\$1,413,641	#2 201 F45	ı
TOTAL COM	IPLETION COST	1	\$3,381,745	
TOTAL O	COMPLETED WELL COST	1	\$4,795,387	
		ı	\$ 1,1 2 2,507	
Approved b	by:			
		•		
Company:		-		
Title:				
		•		

_____Day of



OPERATOR:		Longfellov	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	004H	FIELD:	Loco Hills	AFE #: 423	DATE:	11/30/2020
LOCATION:	SHL	1,740'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,750'	ft (MD)	
	BHL	1,709'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		Es	stimated	<u>a</u>	4,200'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hills	Project -	Eddy County	NM						REVIEWED	BY:	DM

REMARKS:	Loco Thiis Project - Eddy County, INVI			KEVIEWED B1; DIVI
	HITCH CONTRACTOR OF THE CONTRA		COLON POWER	CYTRAY FLORIDA
	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$41,556		1
1-03	Rig Rentals	\$24,444		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$22,500		
				1
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$20,333		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$45,000		
1-19	Drilling Overhead	\$31,250		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$116,250		├
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		<u> </u>
1-26	Drilling Mud & Transportation	\$35,000		
1-27	Mud Diesel	\$0		1
				1
1-28	Mud Logging & Geo-steering	\$18,750		.
1-29	Mud Remediation	\$55,000		
1-30	Drill String & BHA Rental	\$7,500		
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
1-32				
	Contract Daywork Drilling	\$0		
1-34	16.5 days @ \$13,333 / day	\$217,500		
1-36	Casing Crews, PU & LD	\$21,000		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$21,000		
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	\$2,200		1
		\$20,000		
1-48	Surface Pipe Cementing			
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$30,079		
1-52	Production Casing Cementing	\$47,500		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$116,656		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,900		
1-64	Miscellaneous Drilling	\$14,000		
1-66	Welding During Drilling	\$3,500		1
	Miscellaneous Equipment Rentals			1
1-68		\$46,876		l
1-70	Centralizers & Float Equipment	\$32,000	<u> </u>	<u> </u>
	TOTAL INTANGIBLE DRILLING COSTS:	\$1,167,794	\$0	
-		+-,,,//	40	1
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	CUDDI EMENTELI
		DKILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TURITAR	GOODS (Surf., Inter., Prod., Tbg)			i
TODULAR				
L	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C 1250	\$22,295		
2-04		\$99,760		
2-06	7" L-80 32.00 BT&C 4100	\$113,792		1
2-00				1
	5-1/2" L-80 20.00 BT&C 6100	\$0		
	SURFACE EQUIPMENT	\$0		
2-10	Casinghead(s)	\$10,000		
2-12	Liner Hanger & Packer	\$0		
2-14	Open Hole Packers and Sleeves	\$0		1
				1 -
2-16	Miscellaneous	\$0		·
2-18	Flowline & Valves	\$0	<u> </u>	
	TOTAL TANGIBLE DRILLING COSTS:	\$245,847	\$0	1 =====================================
	TOTAL TANGIBLE DIVILLING COSTS:	\$243,847	\$0	·
				1 1



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	004H	FIELD:	Loco Hills	AFE #: 423	DATE:	11/30/2020
LOCATION:	SHL	1,740'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,750'	ft (MD)	
	BHL	1,709'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		E	stimated	<u>@</u>	4,200'	ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.		Logo Hills	Project	Eddy County	NIM						DEVIEWED	DV.	DM

REMARKS:	Loco Hills Project - Eddy County, NM			REVIEWED BY: DM
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2.00		DAILLING	COMPLETION	SULLEMENTAL
3-00	** IDC - COMPLETION **			
3-02	Acidizing		\$0	
3-04	Fracturing		\$1,080,000	
3-06	Perforating		\$140,000	
3-08	Cased Hole Logging		\$5,000	
3-10	CO2 / Boosters		\$35,000	
3-12	Electrician / Electrical Services		\$36,840	
			\$20,000	
3-14	Equipment Rentals			
3-15	Rentals- Potties, Lights, Trash Trailers		\$15,000	
3-16	Frac Tank Rentals		\$20,000	
3-18	Restore Location		\$10,000	
3-20	Right - Of - Way		\$6,311	
3-22	Roustabout Crews		\$61,206	
3-23	Cement Plugs/Bridge Plugs		\$32,000	
3-24	Supervision		\$18,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$50,000	
3-27	Water Hauling - Fresh	-		
			\$685,800	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
3-30	Slickline Work		\$0	
3-31	Technical Labor		\$23,100	
3-32	Reverse Unit / Power Swivel		\$60,000	
3-33	Trucking- Kill Truck		\$0	
	Completion Rig / Daywork		\$0	
3-34	4.0 days @ \$7,600 / day		\$60,000	1
3-36	Anchors		\$2,500	
3-38	Drill bits, Unde-reamers, Etc.		\$10,000	
3-40	Coiled Tubing Unit		\$0	
3-40	Completion Fluids - Mud, Etc.		\$13,000	
3-44	DH Tool Rental		\$23,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$11,500	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$135,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$5,000	
3-56	Contingencies Completion		\$254,129	
To	OTAL INTANGIBLE COMPLETION COSTS:		\$2,999,886	
- 10	THE INTERNOISEE COMPLETION COSTS.		,	
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
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		\$19,496	
4-09	Environmental Equipment		\$4,872	
4-10	Compression Equipment		\$0	
4-12	Dehydration Equipment		\$0	1
4-14	Electrical Equipment - Motors, Etc.		\$4,272	1
4-14			\$5,340	
	Automation Equipment			
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	1	\$10,000	1
4-34	Valves, Gauges and Miscellaneous		\$6,094	1
4-34	Artificial Lift and Accessories		\$5,000	
4-38	Flowline			l
			\$13,500	<u> </u>
7	TOTAL TANGIBLE COMPLETION COSTS:		\$381,859	
TOTAL DEL	LLING COST	\$1,413,641	. <u>————</u>	
		φ1,413,041	## ## T	1 -
TUTAL COM	IPLETION COST	1	\$3,381,745	
TOTAL	COMPLETED WELL COST		Ø4 705 207	
1UIAL	COMPLETED WELL COST		\$4,795,387	
Approved l	by:	_		
Company:		_		
Tide				
Title:		-		

Day of



OPERATOR:		Longfellov	w Energy,	LP									
LEASE:		Hendrix St	tate Com	1314 ABX			WELL NO.	005H	FIELD:	Loco Hills	AFE #: 424	DATE:	11/30/2020
LOCATION:	SHL	1,765'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	2,164'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		Es	stimated	<u>a</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hills	Project -	Eddy County	NM						REVIEWED	BY:	DM

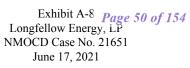
REMARKS:	Loco Thiis Project - Eddy County, INVI			KEVIEWED B1; DIVI
	HITCH CONTRACTOR OF THE CONTRA		COLON POWER	CYTRAY FLORIDA
	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$41,556		1
1-03	Rig Rentals	\$24,444		
1-04	Location / Construction	\$25,500		
1-05	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$22,500		
				1
1-08	Survey	\$7,500		
1-10	Right-of-Way	\$10,000		
1-12	Pit Lining / Fences	\$0		
1-14	Trucking	\$20,333		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$45,000		
1-19	Drilling Overhead	\$31,250		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		
1-23	Directional Tools & Supervision	\$116,250		├
1-24	Hammer Rental / Supervision	\$0		
1-25	Cement Plug / Squeeze	\$0		<u> </u>
1-26	Drilling Mud & Transportation	\$35,000		
1-27	Mud Diesel	\$0		1
				1
1-28	Mud Logging & Geo-steering	\$18,750		.
1-29	Mud Remediation	\$55,000		
1-30	Drill String & BHA Rental	\$7,500		
1-31	Coring	\$0		
1-32	Drill Stem Tests	\$0		
1-32				
	Contract Daywork Drilling	\$0		
1-34	16.5 days @ \$13,333 / day	\$217,500		
1-36	Casing Crews, PU & LD	\$21,000		
1-38	Fishing Tool Rentals	\$0		
1-40	Rathole / Mousehole / Conductor	\$21,000		
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	\$2,200		1
		\$20,000		
1-48	Surface Pipe Cementing			
1-50	Intermediate Pipe Cementing	\$0		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$30,079		
1-52	Production Casing Cementing	\$47,500		
1-56	Open-Hole Logging OH Logs & Core processing	\$0		
1-58	Drilling Contingencies	\$116,656		
1-60	Surface Damages	\$3,750		
1-62	Rotating Head & Expendables	\$2,900		
1-64	Miscellaneous Drilling	\$14,000		
1-66	Welding During Drilling	\$3,500		1
	Miscellaneous Equipment Rentals			1
1-68		\$46,876		l
1-70	Centralizers & Float Equipment	\$32,000	<u> </u>	<u> </u>
	TOTAL INTANGIBLE DRILLING COSTS:	\$1,167,794	\$0	
-		+-,,,//	40	1
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	CUDDI EMENTELI
		DKILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TURITAR	GOODS (Surf., Inter., Prod., Tbg)			i
TODULAR				
L	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C 1250	\$22,295		
2-04		\$99,760		
2-06	7" L-80 32.00 BT&C 4100	\$113,792		1
2-00				1
	5-1/2" L-80 20.00 BT&C 6100	\$0		
	SURFACE EQUIPMENT	\$0		
2-10	Casinghead(s)	\$10,000		
2-12	Liner Hanger & Packer	\$0		
2-14	Open Hole Packers and Sleeves	\$0		1
				1 -
2-16	Miscellaneous	\$0		·
2-18	Flowline & Valves	\$0	<u> </u>	
	TOTAL TANGIBLE DRILLING COSTS:	\$245,847	\$0	1 =====================================
	TOTAL TANGIBLE DIVILLING COSTS:	\$243,847	\$0	·
				1 1



OPERATOR:		Longfellov	v Energy, 1	LP .									
LEASE:		Hendrix St	ate Com 1	314 ABX			WELL NO.	005H	FIELD:	Loco Hills	AFE #: 424	DATE:	11/30/2020
LOCATION:	SHL	1,765'	FNL	2,431'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,350'	ft (MD)	
	BHL	2,164'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Form	nation		Es	timated	<u>a</u>	3,800'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hills	Project - I	Eddy County,	, NM						REVIEWED	BY:	DM

REMARKS:	Loco Hills Project - Eddy County, NM			REVIEWED BY: DM
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **	DALLING	COMPLETION	COTTEMENTAL
				i
3-02 3-04	Acidizing Fracturing		\$0 \$1,080,000	1
3-04	Perforating		\$140,000	
3-08	Cased Hole Logging		\$5,000	1
3-10	CO2 / Boosters		\$35,000	
3-12	Electrician / Electrical Services		\$36,840	
3-14	Equipment Rentals		\$20,000	
3-15	Rentals- Potties, Lights, Trash Trailers		\$15,000	
3-16	Frac Tank Rentals	<u> </u>	\$20,000	
3-18	Restore Location		\$10,000	-
3-20	Right - Of - Way	<u> </u>	\$6,311 \$61,206	· -
3-22 3-23	Roustabout Crews Cement Plugs/Bridge Plugs		\$32,000	1
3-24	Supervision		\$18,000	1
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$50,000	1
3-28	Water Hauling - Fresh		\$685,800	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$150,000	
3-30	Slickline Work	<u> </u>	\$0	
3-31	Technical Labor		\$23,100	-
3-32	Reverse Unit / Power Swivel Trucking- Kill Truck		\$60,000	1
3-33	Completion Rig / Daywork	l	\$0 \$0	1
3-34	4.0 days @ \$7,600 / day		\$60,000	
3-36	Anchors		\$2,500	i
3-38	Drill bits, Unde-reamers, Etc.		\$10,000	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$13,000	
3-44	DH Tool Rental		\$23,000	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection	<u> </u>	\$11,500	
3-50	Press Control Equip Rental-BOPE, Frac Stack, Lubricator		\$135,000	
3-52 3-54	Well Testing Equipment & Labor Miscellaneous Completion	<u> </u>	\$5,000 \$5,000	· -
3-56	Contingencies Completion		\$254,129	
	OTAL INTANGIBLE COMPLETION COSTS:		\$2,999,886	i
10	OTAL INTANGIBLE COMPLETION COSTS:		\$2,999,880	<u> </u>
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
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		\$19,496	<u> </u>
4-09 4-10	Environmental Equipment	<u> </u>	\$4,872	<u> </u>
4-10 4-12	Compression Equipment Dehydration Equipment	l	\$0 \$0	
4-12	Electrical Equipment - Motors, Etc.		\$4,272	1
4-15	Automation Equipment		\$5,340	1
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	<u> </u>	\$0	
4-24	Separation Equipment		\$55,254	l
4-26	Pump Pumping Unit	l	\$175,000	1
4-28 4-30	Pumping Unit Rod String		\$0 \$0	1
4-30 4-32	Tubing Head		\$10,000	1
4-34	Valves, Gauges and Miscellaneous		\$6,094	1
4-38	Artificial Lift and Accessories		\$5,000	1
4-40	Flowline		\$13,500	
T	OTAL TANGIBLE COMPLETION COSTS:		\$381,859	i
TOTAL DRIL		\$1,413,641]	
		\$1,413,641	#2 201 F45	ı
TOTAL COM	IPLETION COST	1	\$3,381,745	
TOTAL O	COMPLETED WELL COST	1	\$4,795,387	
		ı	\$ 1,1 2 2,501	
Approved b	by:			
		•		
Company:		-		
Title:				
		•		

Day of





OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	314 ABX			WELL NO.	001H	FIELD:	Loco Hills	AFE #: 425	DATE:	6/1/2021
LOCATION:	SHL	361'	FNL	2,400'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	347'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Fori	mation		Est	imated	<u>a</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER	
DEMARKS.		Loco Hill	e Project -	Eddy County	NM						REVIEWED	RV.	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1.00		DRILLING	COMPLETION	SUITLEMENTAL
1-00 1-02	** IDC - DRILLING ** Rig Diesel	\$33,477		
1-02	Rig Rentals	\$33,477		
1-03	Location / Construction	\$34,000		
1-04	Drilling Insurance	\$5,000		
1-06	Permits	\$12,000		
1-07	Title Opinion / Regulatory Fees	\$40,000		
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 Mud Logging & Geo-steering	\$0 \$15,000	<u> </u>	
1-28 1-29	Mud Remediation Mud Remediation	\$15,000		
1-29	Drill String & BHA Rental	\$45,000 \$7,500		
1-31	Coring Coring	\$0		
1-31	Drill Stem Tests	\$0		
1 32	Contract Daywork Drilling			
1-34	16.0 days @ \$13,150 / day	\$210,400		
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	\$25,000		
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 1-56	Production Casing Cementing Open-Hole Logging OH Logs & Core processing	38,500 \$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	\$28,500		
1	TOTAL INTANGIBLE DRILLING COSTS:	\$1,021,730		
			<u></u>	
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
	GOODS (Surf., Inter., Prod., Tbg)			
- CZGLARC	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$39,825		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$151,864		
	±/ 4.100' down to			
2-06	5-1/2" L-80 20.00 BT&C +/-12,791	\$189,481	<u> </u>	
DRILLING -	SURFACE EQUIPMENT			
2-10	Casinghead(s)	\$12,000		
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:	\$393,170		



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	314 ABX			WELL NO.	001H	FIELD:	Loco Hills	AFE #: 425	DATE:	6/1/2021
LOCATION:	SHL	361'	FNL	2,400'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	347'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Fori	mation		Est	timated	<u>@</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS.		Loco Hill	s Project -	Eddy County	NM						REVIEWED	RV.	DM

	INTANGIBLE COMPLETION COSTS:	DDIT I IVG	COMPLETION	SUPPLEMENTAL
		DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **			
3-02	Acidizing		\$0	
3-04	Fracturing		\$1,607,200	
3-06	Perforating		\$116,850	
3-08	Cased Hole Logging		\$0	
3-10	CO2 / Boosters		\$0	
3-12	Electrician / Electrical Services		\$18,333	
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		\$6,173	
	Roustabout Crews		\$62,000	
3-22				
3-23	Cement Plugs/Bridge Plugs		\$53,300	
3-24	Supervision		\$30,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$38,071	
3-28	Water Hauling - Fresh		\$654,300	
	SW Disposal- Hauling, Paid Disposal, Poly		\$10,000	
3-29		<u> </u>		
3-30	Slickline Work		\$0	
3-31	Technical Labor		\$5,000	
3-32	Reverse Unit / Power Swivel		\$0	
3-33	Trucking- Kill Truck		\$0	
	Completion Rig / Daywork			
3-34	2.0 days @ \$7,600 / day		\$15,200	
3-36	Anchors		\$1,000	
3-38	Drill bits, Unde-reamers, Etc.		\$0	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$0	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$0	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$55,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$2,667	
3-56	Contingencies Completion 10%		\$335,109	
TO	TAL INTANGIBLE COMPLETION COSTS:		\$3,086,204	
TO		DDIT I DIG		CHARLES AND A CONTRACT
TO	TANGIBLE COMPLETION COSTS:	DRILLING	\$3,086,204	SUPPLEMENTAL
4-00		DRILLING		SUPPLEMENTAL
4-00	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION **	DRILLING	COMPLETION	SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING	COMPLETION \$20,000	SUPPLEMENTAL
4-00 4-01 4-02	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers	DRHLLING	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	** 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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRHLING	\$20,000 \$0 \$0 \$0 \$7,815	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06	** 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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment	DRHLING	\$20,000 \$0 \$0 \$7,815 \$11,667	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	** 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 \$7,815 \$11,667 \$8,545 \$0 \$86,492	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRHLING	\$20,000 \$0 \$0 \$0 \$1,667 \$11,667 \$8,545 \$0 \$86,492 \$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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$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 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 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	** 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	DRHLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305	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	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	** 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	DRHLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305	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	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 Production Tanks Separation Equipment Pump	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000	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	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 4-32	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 \$0 \$1,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,5140 \$175,000 \$0 \$0 \$26,484	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	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 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$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 4-30 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 Flowline	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,5140 \$175,000 \$0 \$0 \$26,484	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	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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS:		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$20,484	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	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST	DRII-LING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$10,000 \$21,638	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	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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS:		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$20,484	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 DRII	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRII	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRII	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$10,000 \$21,638	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 DRIVE	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRII	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRII TOTAL COM	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 4-30 TOTAL DRII TOTAL COM Approved I Company:	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRII TOTAL COM	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 4-30 TOTAL DRII TOTAL COM Approved I Company:	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 4-30 TOTAL DRII TOTAL COM Approved I Company:	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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	SUPPLEMENTAL



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	314 ABX			WELL NO.	002H	FIELD:	Loco Hills	AFE #: 426	DATE:	6/1/2021
LOCATION:	SHL	386'	FNL	2,400'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,800'	ft (MD)	
	BHL	800'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		Es	imated	<u>a</u>	4,300'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hill	s Project - 1	Eddy County	NM						REVIEWED	RV:	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$33,477		
1-03	Rig Rentals	\$22,500		
1-04	Location / Construction	\$34,000		
1-05	Drilling Insurance	\$5,000		ı ————————————————————————————————————
1-06	Permits	\$12,000		ı ————————————————————————————————————
1-07 1-08	Title Opinion / Regulatory Fees	\$40,000		
1-08	Survey Right-of-Way	\$7,500 \$10,000		
1-10	Pit Lining / Fences	\$0		1
1-14	Trucking	\$17,730		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$36,000		1
1-19	Drilling Overhead	\$25,000		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		ı
1-23	Directional Tools & Supervision	\$93,000		
1-24	Hammer Rental / Supervision	\$0		ı
1-25 1-26	Cement Plug / Squeeze Drilling Mud & Transportation	\$0 \$25,000	<u> </u>	
1-26	Mud Diesel	\$23,000		
1-27	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		ı
	Contract Daywork Drilling			
1-34	16.0 days @ \$13,150 / day	\$210,400		
1-36	Casing Crews, PU & LD Fishing Tool Rentals	\$15,000 \$0		<u> </u>
1-38 1-40	Rathole / Mousehole / Conductor	\$18,500		
1-42	Water - Fresh / Brine	\$25,000		1
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		ı
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52 1-56	Production Casing Cementing Open-Hole Logging OH Logs & Core processing	38,500 \$0		<u> </u>
1-58	Drilling Contingencies OH Logs & Core processing	\$97,560		
1-60	Surface Damages	\$3,750		1
1-62	Rotating Head & Expendables	\$2,500		1
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	\$28,500		
7	TOTAL INTANGIBLE DRILLING COSTS:	\$1,021,730		1
				4
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR (GOODS (Surf., Inter., Prod., Tbg)			
0.00	Size Grade Weight Thread Length	*******		
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$39,825		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$151,864		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100 down to +/-12,791	\$189,481		1
DRILLING -	SURFACE EQUIPMENT			
2-10	Casinghead(s)	\$12,000		
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:	\$393,170		



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	State Com 1	314 ABX			WELL NO.	002H	FIELD:	Loco Hills	AFE #: 426	DATE:	6/1/2021
LOCATION:	SHL	386'	FNL	2,400'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,800'	ft (MD)	
	BHL	800'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso For	mation		Es	imated	<u>a</u>	4,300'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hill	s Project - 1	Eddy County	NM						REVIEWED	RV:	DM

	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **	Bittisting	COMI INSTITUTI	
3-02	Acidizing		60	
3-02	Fracturing		\$0 \$1,607,200	
3-04	Perforating		\$1,607,200	
3-08	Cased Hole Logging		\$0	
3-10	CO2 / Boosters		\$0	
3-12	Electrician / Electrical Services		\$18,333	
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		\$6,173	
3-22	Roustabout Crews		\$62,000	
3-23	Cement Plugs/Bridge Plugs		\$53,300	
3-24	Supervision		\$30,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$38,071	
3-28	Water Hauling - Fresh		\$654,300	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$10,000	
3-30 3-31	Slickline Work Technical Labor		\$0 \$5,000	
3-31	Reverse Unit / Power Swivel		\$5,000	
3-32	Trucking- Kill Truck		\$0	
J-33	Completion Rig / Daywork		30	
3-34	2.0 days @ \$7,600 / day		\$15,200	
3-36	Anchors		\$1,000	
3-38	Drill bits, Unde-reamers, Etc.		\$0	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$0	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$0	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$55,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$2,667	
3-56	Contingencies Completion 10%		\$335,109	
TO	TAL INTANGIBLE COMPLETION COSTS:		\$3,086,204	
10	TAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS:	DRILLING	\$3,086,204 COMPLETION	SUPPLEMENTAL
4-00		DRILLING		SUPPLEMENTAL
	TANGIBLE COMPLETION COSTS:	DRILLING		SUPPLEMENTAL
4-00	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION **	DRILLING	COMPLETION	SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING	COMPLETION \$20,000	SUPPLEMENTAL
4-00 4-01 4-02	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers	DRILLING	\$20,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRHLING	\$20,000 \$0 \$0 \$7,815	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667	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 \$1,667 \$8,545	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 \$0 \$7,815 \$11,667 \$8,545	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRHLING	\$20,000 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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	** IDC - 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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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	** 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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	** 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	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$53,340 \$9,400 \$44,007 \$13,638 \$16,305	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	** 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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305	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	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000	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	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 Pump Pumping Unit	DRHLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 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 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 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000	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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production 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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration 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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000	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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 4-30 4-32 4-34 4-38 4-40	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$50 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$216,484	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	** 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 OTAL TANGIBLE COMPLETION COSTS: LLING COST	\$1,414,900	\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$50 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$55,340 \$9,400 \$44,007 \$13,638 \$116,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$21,638	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 DRIH TOTAL COM	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRIH TOTAL COM	** 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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$50 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$55,340 \$9,400 \$44,007 \$13,638 \$116,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$21,638	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 DRIII TOTAL OM	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRIH TOTAL COM	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRIP	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 4-30 TOTAL DRIII TOTAL COM Approved I Company:	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$1,000 \$26,484 \$5,000 \$21,638	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 DRH TOTAL COM	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 4-30 TOTAL DRIII TOTAL COM Approved I Company:	** IDC - 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 OTAL TANGIBLE COMPLETION COSTS: LING COST IPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$1,000 \$26,484 \$5,000 \$21,638	SUPPLEMENTAL



OPERATOR:		Longfello	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	003H	FIELD:	Loco Hills	AFE #: 427	DATE:	6/1/2021
LOCATION:	SHL	1,703'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	1,254'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	1
OBJECTIVE:		Yeso Forn	nation		Es	timated	<u>a</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS:		Loco Hills	Project -	Eddy County	NM						REVIEWED	BV:	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$33,477		
1-03	Rig Rentals	\$22,500		
1-04	Location / Construction	\$34,000		
1-05	Drilling Insurance	\$5,000		ı ————————————————————————————————————
1-06	Permits	\$12,000		ı ————————————————————————————————————
1-07 1-08	Title Opinion / Regulatory Fees	\$40,000		
1-08	Survey Right-of-Way	\$7,500 \$10,000		
1-10	Pit Lining / Fences	\$0		ı ————————————————————————————————————
1-14	Trucking	\$17,730		
1-16	Air / Gas Services	\$0		
1-18	Supervision	\$36,000		1
1-19	Drilling Overhead	\$25,000		
1-20	Rig Mobilization / Demobilization	\$21,250		
1-22	Bits / Underreamers, Etc.	\$35,000		ı
1-23	Directional Tools & Supervision	\$93,000		
1-24	Hammer Rental / Supervision	\$0		ı
1-25 1-26	Cement Plug / Squeeze Drilling Mud & Transportation	\$0 \$25,000	<u> </u>	
1-26	Mud Diesel	\$23,000		
1-27	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		ı
	Contract Daywork Drilling			
1-34	16.0 days @ \$13,150 / day	\$210,400		
1-36	Casing Crews, PU & LD Fishing Tool Rentals	\$15,000 \$0		<u> </u>
1-38 1-40	Rathole / Mousehole / Conductor	\$18,500		
1-42	Water - Fresh / Brine	\$25,000		1
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		ı
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52 1-56	Production Casing Cementing Open-Hole Logging OH Logs & Core processing	38,500 \$0		<u> </u>
1-58	Drilling Contingencies OH Logs & Core processing	\$97,560		
1-60	Surface Damages	\$3,750		ı ————————————————————————————————————
1-62	Rotating Head & Expendables	\$2,500		1
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	\$28,500		
7	TOTAL INTANGIBLE DRILLING COSTS:	\$1,021,730		1
				4
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR (GOODS (Surf., Inter., Prod., Tbg)			
0.00	Size Grade Weight Thread Length	*******		
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$39,825		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$151,864		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100 down to +/-12,791	\$189,481		1
DRILLING -	SURFACE EQUIPMENT			
2-10	Casinghead(s)	\$12,000		
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:	\$393,170		



OPERATOR:		Longfellov	w Energy,	LP									
LEASE:		Hendrix S	tate Com	1314 ABX			WELL NO.	003H	FIELD:	Loco Hills	AFE #: 427	DATE:	6/1/2021
LOCATION:	SHL	1,703'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	1,254'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Forn	nation		Est	imated	<u>a</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER	
REMARKS.		Loco Hills	Project -	Eddy County	NM						REVIEWED	RV.	DM

	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **	Sittemen	COMP LIBITORY	SOLIZABILITIES
	-		40	
3-02	Acidizing		\$0 \$1,607,200	
3-04 3-06	Fracturing Perforating	<u> </u>	\$1,607,200	
	Cased Hole Logging	 	\$110,830	
3-08 3-10	CO2 / Boosters	 	\$0 \$0	
3-10	Electrician / Electrical Services		\$18,333	
3-12	Equipment Rentals		\$5,000	
3-15	Rentals- Potties, Lights, Trash Trailers	<u> </u>	\$7,500	
3-16	Frac Tank Rentals	<u> </u>	\$11,000	
3-18	Restore Location	<u> </u>	\$10,000	
3-20	Right - Of - Way	1	\$6,173	
3-20	Roustabout Crews		\$62,000	
3-23	Cement Plugs/Bridge Plugs	1	\$53,300	
3-24	Supervision Supervision		\$30,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$38,071	
3-28	Water Hauling - Fresh		\$654,300	
3-29	SW Disposal- Hauling, Paid Disposal, Poly		\$10,000	
3-30	Slickline Work		\$0	
3-31	Technical Labor	1	\$5,000	
3-32	Reverse Unit / Power Swivel	1	\$0	
3-33	Trucking- Kill Truck	1	\$0	
	Completion Rig / Daywork	1		
3-34	2.0 days @ \$7,600 / day		\$15,200	
3-36	Anchors		\$1,000	
3-38	Drill bits, Unde-reamers, Etc.		\$0	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$0	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$0	
3-50	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$55,000	
3-52	Well Testing Equipment & Labor		\$5,000	
3-54	Miscellaneous Completion		\$2,667	
3-56	Contingencies Completion 10%		\$335,109	
TO	OTAL INTANGIBLE COMPLETION COSTS:		\$3,086,204	
	TANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
	TANGIBLE COMI LETTON COSTS.			
4-00	** IDC - COMPLETION **			
	** IDC - COMPLETION **			
4-01	** IDC - COMPLETION ** Tubing		\$20,000	
	** IDC - COMPLETION ** Tubing Packers			
4-01 4-02	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint		\$20,000 \$0	
4-01 4-02 4-04 4-06	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint		\$20,000 \$0 \$0 \$0	
4-01 4-02 4-04	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment		\$20,000 \$0 \$0	
4-01 4-02 4-04 4-06 4-08	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment		\$20,000 \$0 \$0 \$0 \$5 \$7,815 \$11,667	
4-01 4-02 4-04 4-06 4-08 4-09	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment		\$20,000 \$0 \$0 \$0 \$0 \$1 \$7,815	
4-01 4-02 4-04 4-06 4-08 4-09 4-10	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545	
4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545	
4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492	
4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340	
4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16	** 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		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	
4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15 4-16 4-18	** 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		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	
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	** 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		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	
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	** 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		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305	
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	** 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		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$116,305 \$55,140	
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	** 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		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140	
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	** 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		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0	
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	** 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		\$20,000 \$0 \$0 \$0 \$50 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484	
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	** 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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000	
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	** 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		\$20,000 \$0 \$0 \$0 \$50 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484	
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	** 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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000	
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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration 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		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$20,484	
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	** 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 **COTAL TANGIBLE COMPLETION COSTS: LLING COST	\$1,414,900	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$21,638	
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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration 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		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$20,484	
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 COM	** 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 **OTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETION COST		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 4-24 4-26 4-28 4-30 4-32 4-34 4-38 4-40 TOTAL COM	** 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 **COTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$21,638	
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 DRL	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 COM	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 4-30 TOTAL DRL TOTAL COM	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST by:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 4-30 TOTAL DRU TOTAL ON Approved	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST by:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 DEL TOTAL COM	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST by:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	
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 4-30 TOTAL DRU TOTAL ON Approved	** 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 **TOTAL TANGIBLE COMPLETION COSTS: LLING COST MPLETED WELL COST by:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$1,000 \$26,484 \$5,000 \$21,638	



OPERATOR:		Longfello	fellow Energy, LP										
LEASE:	<u> </u>						WELL NO.	004H	FIELD:	Loco Hills	AFE #: 428	DATE:	6/1/2021
LOCATION:	SHL	1,728'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,800"	ft (MD)	
	BHL	1,708'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:	Yeso Formation Estimated			<u>a</u>	4,300'	ft TVD	HORIZONTAL	X	WORKOVER				
REMARKS:	Loco Hills Project - Eddy County NM										REVIEWED	RV:	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$33,477		
1-03	Rig Rentals	\$22,500		
1-04	Location / Construction	\$34,000		
1-05	Drilling Insurance	\$5,000 \$12,000		
1-06 1-07	Permits Title Opinion / Regulatory Fees	\$12,000		
1-07	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 1-23	Bits / Underreamers, Etc. Directional Tools & Supervision	\$35,000 \$93,000		
1-23	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 Contract Daywork Drilling	\$0		
1-34	16.0 days @ \$13,150 / day	\$210,400		
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	\$25,000		
1-43	Waste Water / Mud Disposal	\$5,000		
1-44	Well Control Equipment	\$0		
1-46 1-48	Trash Trailer Surface Pipe Cementing	\$2,000 \$15,000		
1-48	Intermediate Pipe Cementing	\$15,000		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52	Production Casing Cementing	38,500		
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 \$10,000		
1-64 1-66	Miscellaneous Drilling Welding During Drilling	\$3,500		
1-68	Miscellaneous Equipment Rentals	\$37,500		
1-70	Centralizers & Float Equipment	\$28,500		
7	OTAL INTANGIBLE DRILLING COSTS:	\$1,021,730		
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR G	GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$39,825		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$151,864		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to	\$189,481		
	SURFACE EQUIPMENT +/-12,791			
2-10	Casinghead(s)	\$12,000		
2-10	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:	\$393,170		



OPERATOR:		Longfello	w Energy,	LP									
LEASE:	C 577					WELL NO.	004H	FIELD:	Loco Hills	AFE #: 428	DATE:	6/1/2021	
LOCATION:	SHL	1,728'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,800"	ft (MD)	
	BHL	1,708'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:		Yeso Formation Estimated				<u>@</u>	4,300'	ft TVD	HORIZONTAL	X	WORKOVER		
REMARKS:	ARKS: Loco Hills Project - Eddy County, NM									REVIEWED	BY:	DM	

	and a signed and and a signed			
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **			
3-02	Acidizing		\$0	
3-04	Fracturing		\$1,607,200	
3-06	Perforating		\$116,850	
3-08	Cased Hole Logging		\$0	
3-10	CO2 / Boosters		\$0	
3-12	Electrician / Electrical Services		\$18,333	
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		\$6,173	
3-22	Roustabout Crews		\$62,000	
3-23	Cement Plugs/Bridge Plugs		\$53,300	
3-24	Supervision		\$30,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking		\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit		\$38,071	
3-27	Water Hauling - Fresh		\$654,300	-
			\$10,000	
3-29	SW Disposal- Hauling, Paid Disposal, Poly			
3-30	Slickline Work		\$0	
3-31	Technical Labor		\$5,000	
3-32	Reverse Unit / Power Swivel		\$0	
3-33	Trucking- Kill Truck		\$0	
	Completion Rig / Daywork			
3-34	<u>2.0</u> days @ <u>\$7,600</u> / day		\$15,200	
3-36	Anchors		\$1,000	
3-38	Drill bits, Unde-reamers, Etc.		\$0	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$0	
3-46	Fishing Tool Rental		\$0	
3-48	Tubing Testing & Inspection		\$0	
3-48	Press Control Equip Rental- BOPE, Frac Stack, Lubricator		\$55,000	
	Well Testing Equipment & Labor			
3-52			\$5,000	
3-54	Miscellaneous Completion		\$2,667	
3-56	Contingencies Completion 10%		\$335,109	
TO	OTAL INTANGIBLE COMPLETION COSTS:		\$3,086,204	
TO		DRILLING		CUDDLEMENTAL
	TANGIBLE COMPLETION COSTS:	DRILLING	\$3,086,204 COMPLETION	SUPPLEMENTAL
4-00		DRILLING		SUPPLEMENTAL
	TANGIBLE COMPLETION COSTS:	DRILLING		SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING	COMPLETION	SUPPLEMENTAL
4-00 4-01 4-02	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers	DRILLING	\$20,000 \$0	SUPPLEMENTAL
4-00 4-01 4-02 4-04	** IDC - COMPLETION ** Tubing Packers Plugs	DRILLING	### COMPLETION \$20,000 \$0 \$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	** IDC - COMPLETION ** Tubing Packets Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$20,000 \$0 \$0 \$7,815	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667	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	DRHLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545	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 \$7,815 \$11,667 \$8,545	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	** 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 \$7,815 \$11,667 \$8,545 \$0 \$86,492	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$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 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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	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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	** 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	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$53,340 \$9,400 \$44,007 \$13,638 \$16,305	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	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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140	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	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 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000	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	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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 Pump Pumping Unit Rod String	DRILLING	\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$53,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 4-32	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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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	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	DRILLING	\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$53,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 4-32	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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$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 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,5140 \$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 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 Flowline	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$20,484	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 Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,5140 \$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 4-30 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 Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS: LLING COST	\$1,414,900	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$20,484	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	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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS:		\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$20,484	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 DRIL	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Dehydration 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 OTAL TANGIBLE COMPLETION COSTS: LLING COST WELETION COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRIL	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$55,340 \$9,400 \$44,007 \$13,638 \$116,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$21,638	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 DRIL TOTAL COM	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST PLETION COST COMPLETED WELL COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRL TOTAL COM	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST PLETION COST COMPLETED WELL COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRU TOTAL ON	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST PLETION COST COMPLETED WELL COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	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 DRIL TOTAL COM Approved Company:	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 OTAL TANGIBLE COMPLETION COSTS: LLING COST PLETION COST COMPLETED WELL COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$5,51,40 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	SUPPLEMENTAL



OPERATOR:		Longfello	w Energy,	LP									
LEASE:	5 57				WELL NO.	005H	FIELD:	Loco Hills	AFE #: 429	DATE:	6/1/2021		
LOCATION:	SHL	1,753'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	2,161'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:	Yeso Formation Estimated		<u>a</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER					
REMARKS:	Loco Hills Project - Eddy County NM										REVIEWED	RV:	DM

	INTANGIBLE DRILLING COSTS	DRILLING	COMPLETION	SUPPLEMENTAL
1-00	** IDC - DRILLING **			
1-02	Rig Diesel	\$33,477		
1-03	Rig Rentals	\$22,500		
1-04	Location / Construction	\$34,000		
1-05	Drilling Insurance	\$5,000 \$12,000		
1-06 1-07	Permits Title Opinion / Regulatory Fees	\$12,000		
1-07	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 1-23	Bits / Underreamers, Etc. Directional Tools & Supervision	\$35,000 \$93,000		
1-23	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 Contract Daywork Drilling	\$0		
1-34	16.0 days @ \$13,150 / day	\$210,400		
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	\$25,000		
1-43	Waste Water / Mud Disposal	\$5,000		
1-44	Well Control Equipment	\$0		
1-46 1-48	Trash Trailer Surface Pipe Cementing	\$2,000 \$15,000		
1-48	Intermediate Pipe Cementing	\$15,000		
1-51	Contractor Ser. (Roustabout, Testor, etc.)	\$24,063		
1-52	Production Casing Cementing	38,500		
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 \$10,000		
1-64 1-66	Miscellaneous Drilling Welding During Drilling	\$3,500		
1-68	Miscellaneous Equipment Rentals	\$37,500		
1-70	Centralizers & Float Equipment	\$28,500		
7	OTAL INTANGIBLE DRILLING COSTS:	\$1,021,730		
	TANGIBLE DRILLING COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
2-00	** IDC - DRILLING **			
TUBULAR G	GOODS (Surf., Inter., Prod., Tbg)			
	Size Grade Weight Thread Length			
2-02	9-5/8" J-55 36.00 LT&C +/- 1,250'	\$39,825		
2-04	7" L-80 32.00 BT&C +/- 4,100'	\$151,864		
2-06	5-1/2" L-80 20.00 BT&C +/-4,100' down to	\$189,481		
	SURFACE EQUIPMENT +/-12,791			
2-10	Casinghead(s)	\$12,000		
2-10	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:	\$393,170		



OPERATOR:		Longfello	w Energy,	LP									
LEASE:	5 57				WELL NO.	005H	FIELD:	Loco Hills	AFE #: 429	DATE:	6/1/2021		
LOCATION:	SHL	1,753'	FNL	2,428'	FEL	of	Section	14	17S-28E	PROPOSED TD:	11,400'	ft (MD)	
	BHL	2,161'	FNL	20'	FEL	of	Section	13	17S-28E	VERTICAL		RE-ENTRY	
OBJECTIVE:	Yeso Formation Estimated		<u>a</u>	3,900'	ft TVD	HORIZONTAL	X	WORKOVER					
REMARKS:	Loco Hills Project - Eddy County NM										REVIEWED	RV:	DM

	INTELLICIBLE COMBLETION COORS	2277	COLUMN	CENTER TO STATE OF
	INTANGIBLE COMPLETION COSTS:	DRILLING	COMPLETION	SUPPLEMENTAL
3-00	** IDC - COMPLETION **		<u> </u>	
3-02	Acidizing		\$0	
3-04	Fracturing		\$1,607,200	
3-06	Perforating	 	\$116,850	
3-08 3-10	Cased Hole Logging CO2 / Boosters	<u> </u>	\$0 \$0	
3-10	Electrician / Electrical Services	 	\$18,333	
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		\$6,173	
3-22	Roustabout Crews		\$62,000	
3-23	Cement Plugs/Bridge Plugs		\$53,300	
3-24	Supervision		\$30,000	
3-25	Completion Overhead		\$10,500	
3-26	Trucking	 	\$22,000	
3-27	Water Transfer- 10", Poly, Fill Pit Water Hauling - Fresh		\$38,071 \$654,300	
3-28 3-29	SW Disposal- Hauling, Paid Disposal, Poly	 	\$10,000	
3-29	Slickline Work		\$0	
3-31	Technical Labor		\$5,000	
3-32	Reverse Unit / Power Swivel		\$0	
3-33	Trucking- Kill Truck		\$0	
1	Completion Rig / Daywork	1	1	
3-34	<u>2.0</u> days @ <u>\$7,600</u> / day		\$15,200	
3-36	Anchors		\$1,000	
3-38	Drill bits, Unde-reamers, Etc.		\$0	
3-40	Coiled Tubing Unit		\$0	
3-42	Completion Fluids - Mud, Etc.		\$5,000	
3-44	DH Tool Rental		\$0	
3-46	Fishing Tool Rental		\$0	
3-48 3-50	Tubing Testing & Inspection Press Control Equip Rental- BOPE, Frac Stack, Lubricator	 	\$0 \$55,000	
3-50 3-52	Well Testing Equipment & Labor	 	\$55,000	
3-54	Miscellaneous Completion		\$2,667	
3-56	Contingencies Completion 10%	 	\$335,109	
5 50	Contingencies Completion 1070	<u> </u>	4550,107	
TO	TALINTANCIDLE COMPLETION COSTS.		\$2.096.204	
TO	TAL INTANGIBLE COMPLETION COSTS:		\$3,086,204	
TO	TAL INTANGIBLE COMPLETION COSTS: TANGIBLE COMPLETION COSTS:	DRILLING	\$3,086,204 COMPLETION	SUPPLEMENTAL
4-00		DRILLING	-	SUPPLEMENTAL
	TANGIBLE COMPLETION COSTS:	DRILLING	-	SUPPLEMENTAL
4-00	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION **	DRILLING	COMPLETION	SUPPLEMENTAL
4-00 4-01	TANGIBLE COMPLETION COSTS: ** IDC - COMPLETION ** Tubing	DRILLING	COMPLETION \$20,000	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06	** 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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment	DRILLING	\$20,000 \$0 \$0 \$7,815 \$11,667	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 \$0,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545	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 \$0 \$1,815 \$11,667 \$8,545	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc.	DRILLING	\$20,000 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492	SUPPLEMENTAL
4-00 4-01 4-02 4-04 4-06 4-08 4-09 4-10 4-12 4-14 4-15	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$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 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental Equipment Compression Equipment Dehydration Equipment Electrical Equipment - Motors, Etc. Automation Equipment	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$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 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 \$1,667 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400	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	** 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 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638	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	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 Production Tanks Separation Equipment Pump	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$44,007 \$13,638 \$16,305 \$55,140	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 Pump Pumping Unit	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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	** 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	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$13,638 \$16,305 \$55,140 \$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 4-32	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 \$0 \$0 \$0 \$0 \$0 \$1,667 \$1,667 \$8,545 \$0 \$86,492 \$5,3,40 \$9,400 \$44,007 \$113,638 \$16,305 \$55,140 \$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	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 Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous	DRILLING	\$20,000 \$0 \$0 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$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 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 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 \$0 \$0 \$7,815 \$11,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000	SUPPLEMENTAL
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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 - Motors, Etc. Automation Equipment Injection / Transfer Pump Meter & Meter Run Salt Water Tanks Production Tanks Production Tanks Separation Equipment Pump Pumping Unit Rod String Tubing Head Valves, Gauges and Miscellaneous Artificial Lift and Accessories Flowline OTAL TANGIBLE COMPLETION COSTS:		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$86,492 \$5,340 \$9,400 \$44,007 \$113,638 \$116,305 \$555,140 \$175,000 \$0 \$0 \$10,000 \$226,484 \$5,000 \$21,638	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	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental 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 OTAL TANGIBLE COMPLETION COSTS: LING COST	\$1,414,900	\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$88,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	SUPPLEMENTAL
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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 DRIII TOTAL COM	** IDC - COMPLETION ** Tubing Packers Plugs Blast Joint Miscellaneous Completion Equipment Environmental 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 OTAL TANGIBLE COMPLETION COSTS: LING COST		\$20,000 \$20,000 \$0 \$0 \$0 \$0 \$0 \$1,667 \$8,545 \$0 \$88,492 \$5,340 \$9,400 \$44,007 \$13,638 \$16,305 \$55,140 \$175,000 \$0 \$0 \$10,000 \$26,484 \$5,000 \$21,638	SUPPLEMENTAL
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SHARON T. SHAHEEN

Direct: (505) 986-2678

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

www.montand.com

MONTGOMERY
& ANDREWS
LAW FIRM

February 1, 2021

Via U.S. Certified Mail, return receipt requested

TO: ALL INTEREST OWNERS ON ATTACHED LIST

Re: Case No. 21651 – Application of Longfellow Energy, LP for Compulsory Pooling, Eddy County, New Mexico

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 an order pooling all uncommitted interests in 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. 21651. 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 (Empire; Glorieta-Yeso [96210]) in a standard 480-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Applicant proposes to drill the following wells: (1) Hendrix State Com 1314 ABX 001H well, to be horizontally drilled from an approximate surface hole location 361' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 347' FNL and 20' FEL of Section 13, T17S-R28E; (2) Hendrix State Com 1314 ABX 002H well, to be horizontally drilled from an approximate surface hole location 386' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 800' FNL and 20' FEL of Section 13, T17S-R28E; (3) Hendrix State Com 1314 ABX 003H well, to be horizontally drilled from an approximate surface hole location 1703' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1254' FNL and 20' FEL of Section 13, T17S-R28E; (4) Hendrix State Com 1314 ABX 004H well, to be horizontally drilled from an approximate surface hole location 1728' FNL and 2428' FEL of Section

All Interest Owners February 1, 2021 Page 2

14, T17S-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 13, T17S-R28E; and (5) Hendrix State Com 1314 ABX 005H well, to be horizontally drilled from an approximate surface hole location 1753' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 13, T17S-R28E. The completed intervals and first and last take points for these wells will meet statewide setback requirements for horizontal wells. Also to be considered will be the cost of drilling and completing the wells and the allocation of the costs, the designation of Applicant as Operator of the wells, and a 200% charge for the risk involved in drilling and completing the wells. The wells and lands are located approximately 9 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 **March 4**, **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 these applications at a later time. If you intend to present testimony or evidence at the hearing, you must enter your appearance by **February 24, 2020** and serve the Division, counsel for the Applicant, and other parties with a pre-hearing statement by **February 25, 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,

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

STS/lt Enclosure

cc: Longfellow Energy, LP, via email

EXHIBIT A

INTEREST OWNERS

Working Interest Owners:

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

The Bright Company, LLC 6341 Balmy Ln. Zephyrhills, FL 33542

Murchison Oil & Gas, Inc. 7250 Dallas Pkwy, #1400 Plano, TX 75024

American Standard Energy Co. 400 W. Illinois St. Suite 950 Midland, TX 79701

G.P.C. Oil and Gas Corp. P.O. Box 50638 Midland, TX 79710-0638 Way West Oil Co. P.O. Box 1647 Longview, TX 75606-1647

Yates Energy Corporation P.O. Box 2323 Roswell, NM 88202-2323

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

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

Overriding Royalty Interest Owners:

Abuelo, LLC P.O. Box 772 Artesia, NM 88211

Ergodic Resources, LLC P.O. Box 2021 Roswell, NM 88202

Fasken Land and Minerals, Ltd. 6101 Holiday Hill Road Midland, TX 79707 Corbett Petroleum P.O. Box 11644 Spring, TX 77391-1644

Explorers Petroleum Corp. P.O. Box 1933 Roswell, NM 88202

Loco Hills Production Comp, LLC P.O. Box 779 Artesia, NM 88211 Mark E. Boling Rev Trust 8210 Louisiana Blvd., NE Suite B Albuquerque, NM 87113

MRC Delaware Resources, LLC 5400 LBJ Fwy. #1500 Dallas, TX 75240

Spiral, Inc. P.O. Box 1933 Roswell, NM 88202

Additional Party(ies):

State Land Office 310 Old Santa Fe Trail Santa Fe, NM 87501 Mark Wilson Family Partnership P.O. Box 2415 Midland, TX 79702-2415

Silverhair, LLC 1301 Lewis Rd. Artesia, NM 88210

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. 21651

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 (Empire; Glorieta-Yeso [96210]) in a standard 480-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within 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 1.5-mile wells in the proposed HSU:
 - Hendrix State Com 1314 ABX 001H well, to be horizontally drilled from an approximate surface hole location 361' FNL and 2400' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 347' FNL and 20' FEL of Section 13, T17S-R28E.
 - Hendrix State Com 1314 ABX 002H well, to be horizontally drilled from an approximate surface hole location 386' FNL and 2400' FEL of Section 14, T17S-

- R28E, to an approximate bottom hole location 800' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 003H well, to be horizontally drilled from an approximate surface hole location 1703' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1254' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 004H well, to be horizontally drilled from an approximate surface hole location 1728' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 13, T17S-R28E.
- Hendrix State Com 1314 ABX 005H well, to be horizontally drilled from an approximate surface hole location 1753' FNL and 2428' FEL of Section 14, T17S-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 13, T17S-R28E.
- 3. The completed intervals and first and last take points will meet the setback requirements set forth in the statewide rules for horizontal oil wells.
- 4. 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.
- 5. 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.

6. 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 March 4, 2021, and that, after notice and hearing as required by law, the Division enter an order:

- A. Creating a standard 480-acre, more or less, HSU comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within 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 1.5-mile wells in the HSU: (1) Hendrix State Com 1314 ABX 001H, (2) Hendrix State Com 1314 ABX 002H, (3) Hendrix State Com 1314 ABX 003H, (4) Hendrix State Com 1314 ABX 004H, and (5) Hendrix State Com 1314 ABX 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

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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. 21651

APPLICATION OF SPUR ENERGY PARTNERS, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 21733

DIRECT TESTIMONY OF GEOLOGIST 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 Narrative of Direct Testimony, which is based on my personal knowledge.
- 2. I am a petroleum geologist employed as the Geologist for Longfellow Energy, LP ("Longfellow") and am familiar with the subject application and geology involved.
- 3. This testimony is submitted in connection with the filing by Longfellow of the above-referenced compulsory pooling application (the "Application") pursuant to 19.15.4.12(A)(1) NMAC.
- 4. I have previously testified before the New Mexico Oil Conservation Division as an expert witness in petroleum geology matters. My credentials as a petroleum geologist have been accepted by the Division and made a matter of record previously. My education and work experience are as follows: I graduated from the University of Oklahoma in 2010 with a Bachelor of Science degree in Petroleum Geology and graduated from the University of Texas at Dallas with a Masters of Science degree in Geosciences in 2014. I have been employed with Longfellow Energy, LP in their geology department 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.

- 5. **Exhibit B-1a and Exhibit B-1b** include a geological overview for the proposed horizontal spacing unit ("HSU") and related wells.
- 6. **Exhibit B-2** is a regional Yeso structure map with 50' contour intervals, which illustrates the location of the HSU by a red outline.
- 7. **Exhibit B-3** is a Spacing Unit Schematic showing the Yeso structure with 50' contour intervals, which illustrates the location of the HSU by a red outline, the approximate locations of the proposed wells, and whether the wells are considered bench 1 "Paddock" or bench 2 "Blinebry".
- 8. **Exhibit B-4** is a type log of the production portion of the Yeso formation on the Northwest Shelf and further defines bench 1 "Paddock" and bench 2 "Blinebry" within the Yeso formation. This type log identifies the key tops used to evaluate reservoirs and landing targets for the proposed wells.
- 9. **Exhibit B-5** is a Yeso structural cross section map with 50' contour intervals with the location of the HSU outlined in red, the approximate locations of the proposed wells, and whether the wells are considered bench 1 "Paddock" or bench 2 "Blinebry".
- 10. **Exhibit B-6** is the structural cross section and indicates that these wells are being placed in a zone that has an estimated gross interval thickness of 1,500°. This gross thickness is being calculated from the top of the Paddock to the top of the Tubb within the Yeso formation.

- 11. **Exhibit B-7** is a gunbarrel diagram depicting each well. These diagrams show the approximate landing zones in reference to the type log for the area and the associated spacing of the wellbores within the half-section width HSU.
- 12. The measured depths and true vertical depths for each well are approximately as follows:

	MD	TVD
Hendrix State Com 1314 ABX 001H	11,400'	3,900'
Hendrix State Com 1314 ABX 002H	11,800'	4,300'
Hendrix State Com 1314 ABX 003H	11,400'	3,900'
Hendrix State Com 1314 ABX 004H	11,800'	4,300'
Hendrix State Com 1314 ABX 005H	11,400'	3,900'

- 13. The true vertical landing depth of the target formation is approximately 3,900' for the bench 1 "Paddock" wells (001H, 003H, 005H), and approximately 4,300' for the bench 2 "Blinebry" wells (002H, 004H) based on the structural cross section, Exhibit B-6.
 - 14. Based on my geologic study of the area, I conclude the following:
 - a. The horizontal spacing and proration units are justified from a geologic standpoint.
 - b. There are no structural impediments or faulting that will interfere with horizontal development.
 - c. Each quarter-quarter section in the HSU will contribute more or less equally to production.
 - d. 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 is consistent with our adjacent Hendrix State Com 13 CD wells. Therefore, the preferred well orientation does not strand any acreage or reserves.

- 15. The exhibits to this testimony were prepared by me or compiled from Longfellow's business records.
- 16. The granting of the Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
 - 17. The foregoing is correct and complete to the best of my knowledge and belief.

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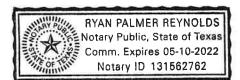
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STATE OF TEXAS)ss

COUNTY OF DALLAS

Subscribed to and sworn before me this 10th day of June, 2021.

My Commission expires _______5/10/2027



Jennifer Eker

8115 Preston Rd. Ste. 800, Dallas, TX, 75225 I 405.514.5377 l Jennifer.eker@longfellowenergy.com

PROFESSIONAL EXPIRIENCE

Geologist, Longfellow Energy, LP

April 2021- Current

Dallas, TX

- Plan and monitor all well operations in Loco Hills project in Eddy County, NM
- Reservoir mapping and petrophysical evaluation of Yeso Formation and surrounding formations
- Evaluate geologic potential of company's current or future projects

Geologist, Longfellow Energy, LP

August 2010 – April 2020

Dallas, TX

- Successfully helped with drilling over 100 horizontal Mississippian Lime and Woodford horizontal wells in the STACK Play, Oklahoma
- Responsible for well planning and monitoring of well operations including cutting sampling, geosteering monitoring, and any electric well logging
- Planning, acquisition, and data analysis of multiple coring operations in Oklahoma
- Reservoir mapping and petrophysical evaluation of multiple carbonate and sand formations in Oklahoma and Texas
- Evaluation of uphole behind pipe potential of current company's assets or potential projects in Oklahoma and Texas
- Planning and monitoring of exploratory vertical Triassic dolomite drilling program in Dorentci, Bulgaria
- Asset evaluation of Cretaceous limestone in Albania

Geological Technician, Longfellow Energy, LP

January 2007 – July 2010

Oklahoma City, OK

- Assisting multiple geologists with their daily needs while being mentored by Chief Geologist
- Developing multiple drilling locations in shallow tight oil sands project in SE Oklahoma
- Mastered technical skills in Petra and Geographix geological software

EDUCATION

University of Texas at Dallas

August 2014

Masters of Science in Geosciences

University of Oklahoma, Mewbourne College of Earth and Energy

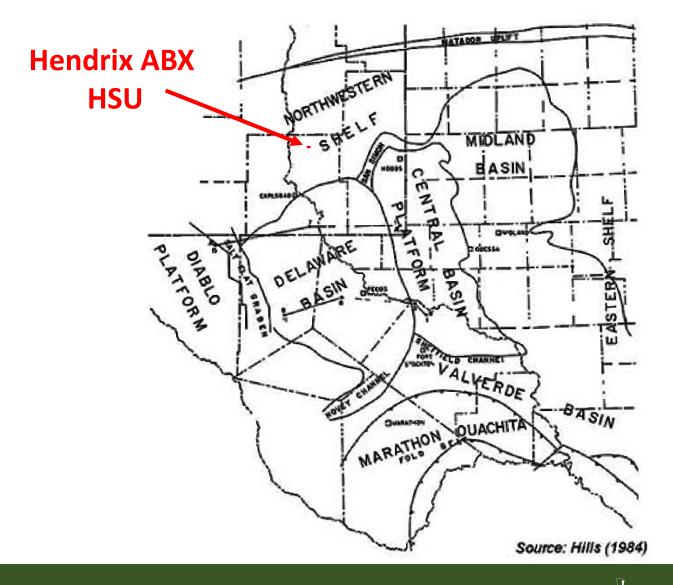
May 2010

Bachelors of Science in Petroleum Geolog

Tab 6

Regional View of the NW Shelf

Paleogeography of Permian Basin region in Early Permian

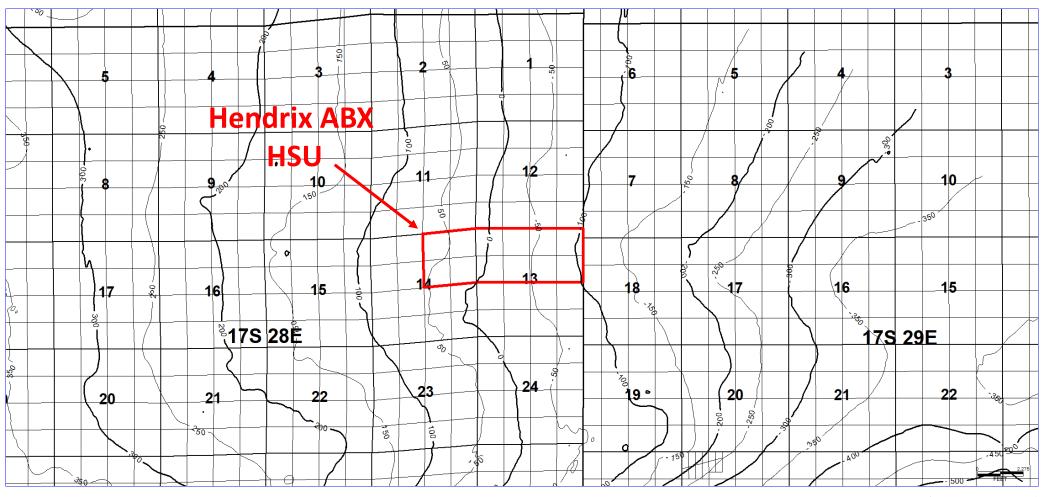


NW Shelf Stratigraphic Column

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	Guadalupian	Tansill			
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Targeted Zones

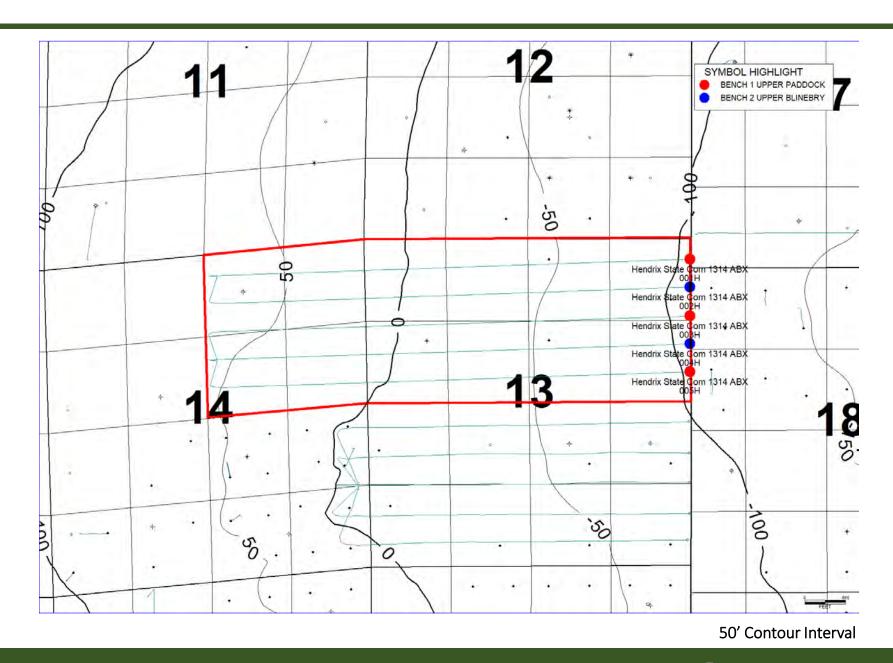
Paddock Structure (TVDSS)



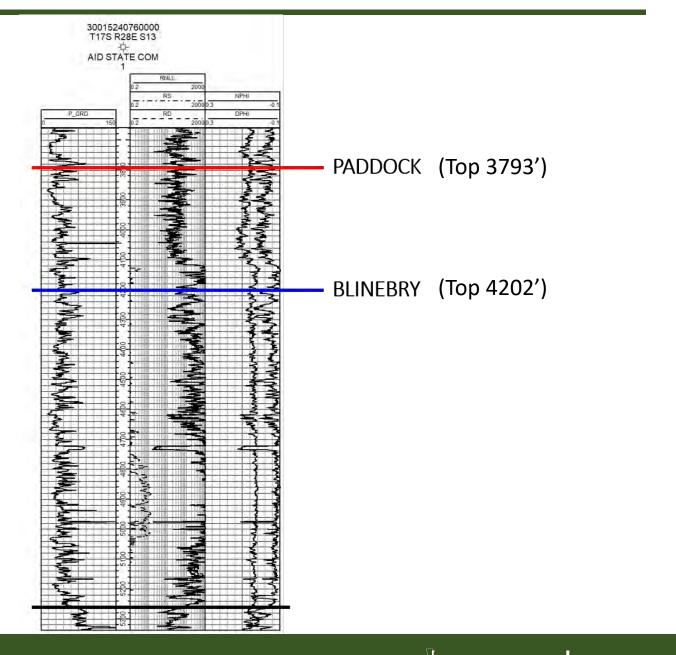
50' Contour Interval

Case No. 21651

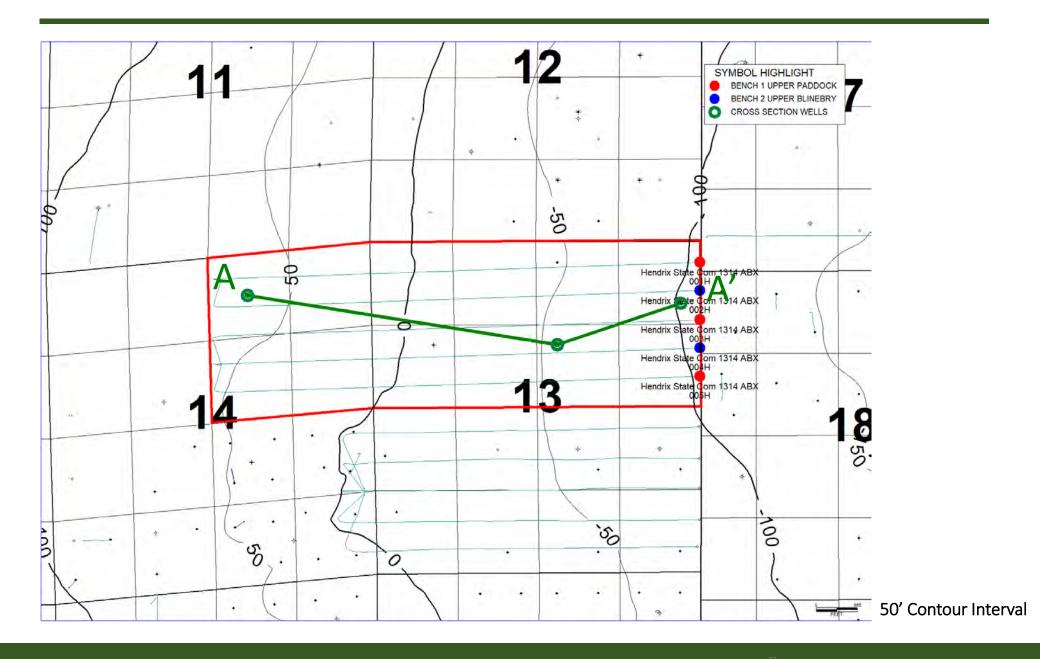
Paddock Structure (TVDSS)



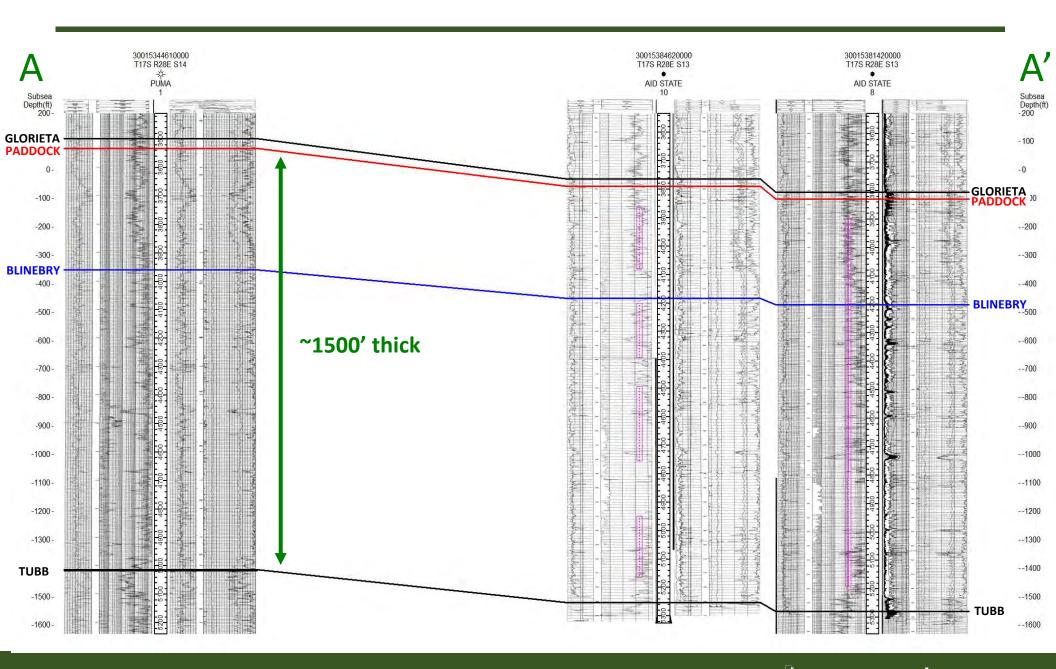
NW Shelf Yeso Type Log with Target Intervals



Hendrix ABX Cross Section Line

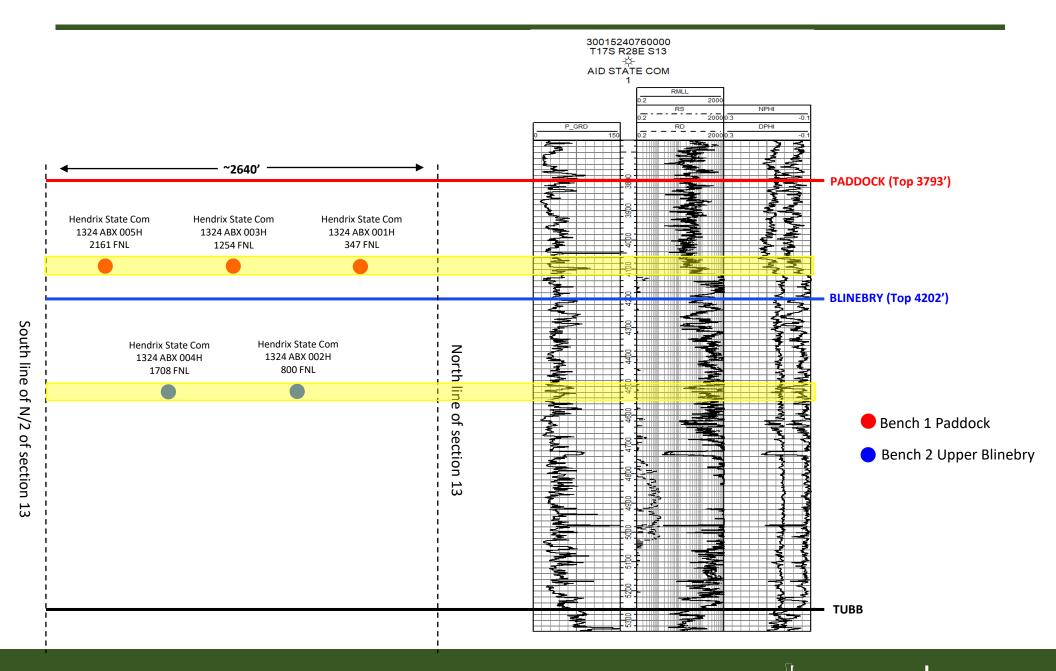


Hendrix ABX Structural Cross Section



Case No. 21651

Hendrix ABX Gun Barrel Diagram and Landing Zone



Tab 7

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

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

Case No. 21651

APPLICATION OF SPUR ENERGY PARTNERS, LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

Case No. 21733

DIRECT TESTIMONY OF ENGINEER 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.

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

- 4. From an engineering perspective, Longfellow's development plan is superior to the competing proposal of Spur Energy Partners, LLC ("Spur) for the following reasons:
 - Longfellow owns and operates all producing wells within the development unit in
 question, four of which are producing from the Yeso formation which is the target
 formation for the horizontal wells being proposed. Longfellow has both active
 knowledge of the reservoir in this section, as well as can take steps to actively
 manage the vertical producing wells to minimize damage and maximize drainage
 of the development unit.
 - Longfellow owns and operates 5 producing horizontal wells in an HSU immediately adjacent to the Hendrix ABX HSU being contested. The landing zones and inter-well lateral spacing of the wells have been designed to both maximize the recovery of oil and gas from the proposed HSU and to simultaneously minimize any negative impact on Longfellow's horizontal wells in the adjacent HSU.
 - Longfellow owns and operates significant infrastructure in the immediate area which will facilitate the efficient development, including a 2-million barrel capacity produced water storage impoundment, a produced water recycling facility, and an existing water pipeline system connected to an existing salt water disposal well. Longfellow also has 17 approved horizontal drilling permits in the immediate area, 14 of which are adjacent or within 1-2 miles of the proposed HSU.

- List of 17 Approved Permits: 30-015-48331, 30-015-48304, 30-015-48303,
 30-015-48142, 30-015-48183, 30-015-48184, 30-015-48309, 30-015-48311, 30-015-48330, 30-015-48329, 30-015-48328, 30-015-48327, 30-015-48326, 30-015-48301, 30-015-48300, 30-015-48302, 30-015-48308
- Longfellow's 2MMBbl Produced Water Recycling and Storage facility is designed and sized to recycle 100% of Longfellow's produced water for reuse during fracture stimulation from its proposed wells. Longfellow plans to utilize 100% of its produced water in the drilling and completions of future wells until the end of its development plan. This will significantly reduce or eliminate both the sourcing of fresh water and the disposal of produced water for the next 5+ years.
- Longfellow has surveyed and contracted for 2 surface drilling locations (pads)
 within the Hendrix ABX unit. Both locations are on high ground adjacent to the
 west edge of the unit. Both locations have been surveyed and are construction
 ready.
- Spur's surface location is located in a low spot within an existing natural drainage area. High volumes of seasonal rain causes flooding in this area, and the location of this pad is highly susceptible to flooding. Flooding on a producing pad can create significant operational issues and lead to added cost. The wells in the proposal are planned to use ESP (electrical submersible pumps) which require large amounts of electricity for their usage. The surface equipment associated with these pumps could be severely if not irreparably damaged during a flooding event, at significant repair or replacement cost.

- Longfellow participated as a working interest owner in a 3-well pad operated by Spur in 2021, the Welch 28A unit. Significant gas flaring has occurred since these wells came on-stream which has resulted in a significant amount of waste, both economic and environmental. To date, the Welch 28A unit has flared an estimated 65 MMCF of natural gas. Using Longfellow's operated wells in the immediate area which produce from the same formations as an analogue, the average realized gas price is ~\$2.67/MCF. This equates to ~\$174,646 of lost revenue associated with the flared gas. A significant amount of lost revenue to all parties involved in the unit. Additionally, the CO2 emissions associated with this volume of flared gas is ~3,600 metric tons.
- Longfellow's operations are designed and structured around minimizing flaring. Our sites are equipped with gas pipelines constructed well in advance of completions operations. This allows us to flowback into pipelines and eliminate flaring. Additionally, our sites are equipped with vapor recovery units on our tanks which captures tank flash gas and compresses it back into the pipelines. As an example, on the Hendrix CD unit immediately to the south of the Proposed Hendrix ABX unit, the pipeline was on-stream prior to the wells coming on, as opposed to a flaring period of ~58 days on the Spur Welch 28A unit. This practice both increases revenue for all working interest owners within the unit, reduces water, and operates consistent with the environmental priorities of the State of New Mexico. At the time or writing this testimony (06.09.21), Spur continues to flare gas at the Welch 28A unit.

- Spur's surface location contains several complications. Firstly, 4 of the 6 wells have issues with their surface hole locations. The Aid North 50H shares the same surface hole location as the Aid North 12H, and the Aid North 10H shares the same surface hole location as the Aid North 51H. Additionally, the Spur surface hole locations are located ~1,000' east of the section boundary, meaning that Spur will have to execute a large back-build (slant section in the opposite direction of the lateral) in order to maximize the drilled lateral length. This adds cost and complexity to the drilling operation, and can lead to complications during completions and long-term added costs for artificial lift. It is difficult to determine if the added costs associated with back-building are contemplated in the AFE. If Spur opted not to execute a back-build of ~900' them a significant portion of the reservoir would not be developable, resulting in waste.
- Longfellow's development plan for the Hendrix ABX Unit is to drill 5 horizontal wells within 2 members of the Yeso formation. 3 wells will be landed in the Paddock member and 2 wells will be landed in the Upper Blinebry member (approximately 400' deeper that the Paddock landing zone). These wells will be spaced at ~900' apart from each other strategraphically (side by side in the same zone), with the lower bench being offset by ~450' from the upper bench. This "wine-rack" approach to well spacing is considered best-practice to maximize oil recovery from a volume of rock because it reduces the chances for vertical communication between wells of different benches. The well spacing of the proposed Hendrix ABX HSU is consistent with the landing and spacing of the Longfellow operated Hendrix CD HSU. This is done to maximize the recovery of

- oil and gas from both HSU's, while minimizing the potential negative effects of frac hits, well interference (hydraulic communication), and competitive drainage.
- Longfellow has designed its well spacing to be consistent with its fracture stimulation, which is approximately 50% larger than the fracture stimulation as proposed by Spur. This creates a larger frac which is capable of draining a larger stimulated rock volume. Longfellow has done extensive frac modelling to estimate the size and geometric shape of various stimulations in this formation, and has depicted the geometries of the fracture drainage length and heights which show both an effective stimulated rock volume of the Paddock and Upper Blinebry intervals of the Yeso reservoir, and minimal interference effects.
- Spur's development plan for the Aid North Unit (Longfellow's Hendrix ABX) is to drill 6 horizontal wells within 3 members of the Yeso formation. 3 in the Paddock, 2 in the Upper Blinebry (approximately 400' deeper that the Paddock landing zone), and 1 in the Middle Blinebry (approximately 200' deeper that the Upper Blinebry landing zone). The well spacing of these wells by bench varies somewhat, but can be described as ~900' spacing in the Paddock, ~1800' in the Upper Blinebry, and only 1 well in the Middle Blinebry. The wells are not offset by interval with only ~100' horizontal offset between the Paddock and Upper Blinebry well laterals. This creates a high likelihood of hydraulic communication (potentially resulting in frac interference and competitive drainage) between Spur's proposed 10H & 50H wells and its proposed 12H and 51H wells.
- Spur's proposed wells, by landing their laterals effectively one on top of the other, pumping smaller fracs, while spacing their wells seemingly arbitrarily, have both

increased the likelihood of negative interference between wells, but also decreased the effective drainage of the entire section leaving behind valuable recoverable reserves of oil and gas. Subsequent drilling within the Paddock and Upper Blinebry intervals would not be effective after having produced large volumes of oil and gas from the HSU, as pressure depletion from such production would likely result in severe "parent-child" well interference effects.

- Longfellow has reviewed microseismic data in the play that shows extensive vertical fracture propagation. In the projections and diagrams provided as exhibits to this testimony we have restricted the fracture height growth well below those observed in microseismic data.
- Longfellow conducted a comprehensive review of the AFEs provided by Spur, as well as the updated Longfellow AFEs for the Hendrix ABX wells which incorporated the most recent movement in service prices and steel prices. Longfellow conducted an "AFE Side-by-Side" analysis which comprised of reorganizing the Spur AFE feature codes into the categories as used in the Longfellow AFE. This process allows for a more aligned comparison of costs and variances. In each companies AFEs, contingency costs were used. Longfellow's AFE had ~\$433,000 of contingency, while Spur had a contingency of ~\$75,000. In the oil and gas industry contingencies are put into AFEs to account for potential costs associated with unknown or unpredictable events. The other numbers are associated with what an operator has planned and obtained cost estimates for.
- The methodology used for comparing the competing AFEs was firstly, to remove contingencies in drilling and completions, then by category (Intangible Drilling,

Tangible Drilling, Intangible Completions, Tangible Completions) compare the totals. From there, Longfellow identified which line item costs were driving any variance observed. Once the "Key Variances" were identified and itemized, Longfellow engaged in a reconciliation process to determine the root cause of the variance. These comparisons and explanations are detailed in the associated exhibits.

- The AFE variances were as follows:
 - o Total Variance = \sim \$802,113
 - o Intangible and Tangible Drilling
 - Variance = \$154,465
 - Variance Explanation: The majority of the variance appears to be comprised costs of 1) Production casing differences, even though both operators are using the same casing design. For a variance to exist here the likely explanation is for costs estimates to be out of date. Casing costs have increased dramatically recently as steel prices have risen. Longfellow's casing cost estimate were updated in June 2021. 2) Drilling Day Work, which is the cost associated with the drilling rig. This could be associated with lower drilling day-rate, or lower assumed drilling days. Longfellow has assumed 16 days of drilling time, which is itemized on the AFE. Longfellow does not know Spur's estimated drilling time. 3) Missing costs, both water and surface casing cementing not being included in the AFE
 - o Intangible Completions Cost

- Variance = \sim \$809,000
 - Variance Explanation: Longfellow is planning to fracture stimulate the wells in the Proposed Hendrix ABX Unit with frac treatments that are ~50% larger than Spur's. We estimate this will increase oil recovery per well significantly. If we combine all Stimulation related costs into a single line item (Pumping company costs, Proppant, chemicals, fuel, and water) and normalize the numbers to frac job size (an industry metric commonly used is barrels per linear foot of stimulated lateral length) the difference between the two costs is reduced to a ~4% variance. This means that in actuality, Longfellow and Spur have very similar frac costs.

o Tangible Completions Cost

- Variance=~\$128,054
 - Variance Explanation: The variance here is associated with artificial lift (the method used to pump oil out of the ground) and the decision to rent or buy artificial lift equipment (in this case the ESP). Spur has opted to rent their equipment, while Longfellow has opted to purchase it. Spur's rental method is effectively shifting costs from capital expenditures to operating expenses, not a true AFE difference. Longfellow has included an exhibit outlining the costs associated with renting versus buying ESP equipment. Our analysis shows that while renting the equipment reduces cost initially, after the 14th months of production the rental is significantly more

expensive. When you combine the incremental operating expense and take into account the salvage value of the equipment, the true incremental cost of renting ESP equipment is estimated at ~\$122,667 per well.

- In the area in question, Longfellow has conducted a comprehensive petrophycial study to determine the oil-in-place within the Yeso formation (Paddock and Blinebry members). Our analysis from a well near the Proposed Hendrix ABX shows significant oil-in-place within the Yeso formation. The oil is biased to the Paddock, having the highest oil density, followed by the Upper Blinebry (comprising ~45% of the oil-in-place of the Paddock), and then the Middle Blinebry (comprising ~16% of the oil-in-place of the Paddock). Longfellow's review of >500 producing Yeso horizontal wells in this Play and their performance are consistent with the observation that productivity declines as you develop lower benches within the Yeso. Based on this analysis, the reserves associated to the Middle Blinebry are much lower than the Paddock and Upper Blinebry. Spur's 70H well is located in the Middle Blinebry and Longfellow has severe doubts as to its potential commerciality at this time.
- Longfellow, in the design and planning phase of their development plan, elected to space wells slightly farther apart, and implement larger stimulation as the most efficient method of recovery of oil and gas. This ultimately means fewer wells with higher cost per well but also higher reserves and better economic returns. As an example of the type of analysis that was conducted, we have selected a small subset of wells which can be used as analogue wells to the proposals made by Spur and

Longfellow based on frac size and reserves. The wells were selected in the same geographic area and from equivalent geologic settings, and grouped by frac job size. The results clearly show improved EUR (Estimated Ultimate Recovery of Oil) of the larger job size as proposed by Longfellow, with the larger fracs producing ~26% more oil than those wells completed with smaller frac jobs. For the Paddock wells selected, those fracture stimulated with fluid loadings of 60 bbl per ft had projected ultimate recoveries of ~450,000 Bbl of Oil, while those fracture stimulated with fluid loadings of 90 bbl per ft had projected ultimate recoveries of ~571,000 Bbl of Oil. This constitutes an increase in 121,000 Bbl of Oil per well or a 26% increase in recoverable reserves and significantly improved economic returns.

o APIs of wells in analysis:

•	30015447070000,	30015448480000,	30015448670000,
	30015447410000,	30015448810000,	30015446850000,
	30015446700000		

• In attributing oil reserves to the various intervals of the Yeso reservoir, Longfellow looked at all the horizontal wells in the Yeso play and adjusted the reserves for the Upper and Middle Blinebry intervals to quantify what the frac size differences would project recoverable oil and gas reserves to be in the lower benches. The results of actual well performance mirrored the previously stated recoverable oil and gas reserve degradation as you move down the stratigraphic column (deeper intervals within the Yeso formation).

- The final engineering analysis conducted by Longfellow in the review of the material associated with this protested hearing was to conduct an economic analysis of the two competing proposals. A commonly used metric in the oil and gas business for comparing competing proposals is F&D, or Finding and Development Costs (measured in dollars per Bbl of oil ultimately recovered). This is effectively a combination of the reservoir development plan, the number of wells to be drilled, the total cost associated with the project (in this case the sum of the AFEs of all wells), and the total expected reserves to be extracted during the life of the project.
- The F&D analyses included in Longfellow's Engineering Exhibits shows that Longfellow's development plan will find more oil (~309,000 Bbl of oil incremental), for marginally higher full development cost (~1% higher than Spur's sum of AFEs) and has a F&D(Longfellow) = ~\$9.63/Bbl of oil. Conducting the same analysis on Spur's development plan results in a F&D(Spur) = \$10.95/Bbl of oil. This constitutes a ~13% increase in development cost per barrel of oil extracted, making it a less efficient method of development of the section.
- 6. The exhibits to this testimony were prepared by me, David Mitchell.
- 7. The granting of the Application is in the interests of conservation, the prevention of waste, and the protection of correlative rights.
 - 8. The foregoing is correct and complete to the best of my knowledge and belief.

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FURTHER AFFIANT SAYETH NAUGHT

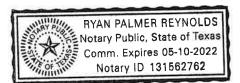
David Mitchell

STATE OF TEXAS)ss

COUNTY OF DALLAS

Subscribed to and sworn before me this 10th day of June, 2021.

My Commission expires 5/10/2022



Tab 8

Long Track Record of Performance

Longfellow Operator History

2007 to Present Operated Activity

- 129 Wells in Oklahoma (103 Horizontals)
- 13 Wells in Texas (1 Horizontal)
- 3 Wells in Pennsylvania (1 Horizontal)
- 1 Well in Mississippi (Vertical)
- 2 Wells in California (Vertical)
- 5 Wells in New Mexico (5 Horizontals)

1998 - 2007 Predecessor Company to LFE

- >400 wells in Texas
- 25 Wells in Colorado (Vertical)
- [CEO, President, VP Drilling & Facilities Manager all still with the company]

New Mexico Activity

- Entered the area in O1 2017
- Operate 68 Vertical Wells
- Non-Operated Interest in 33 Vertical Wells
- 5 Operated Horizontal Wells
- 3 Non-Operated Horizontal Wells



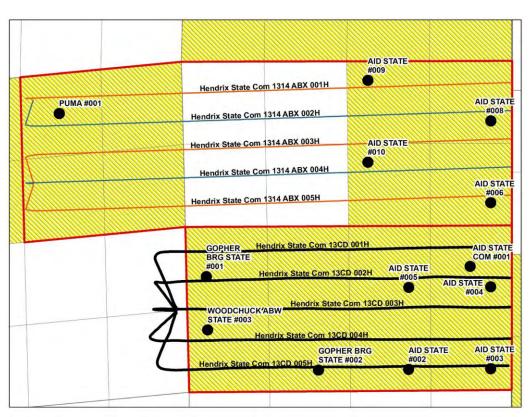


Images: Longfellow's Hendrix CD Drilling & Completions Operation (2021)

Existing Producing Wells

Longfellow Energy Operates All Producing Wells in the Unit

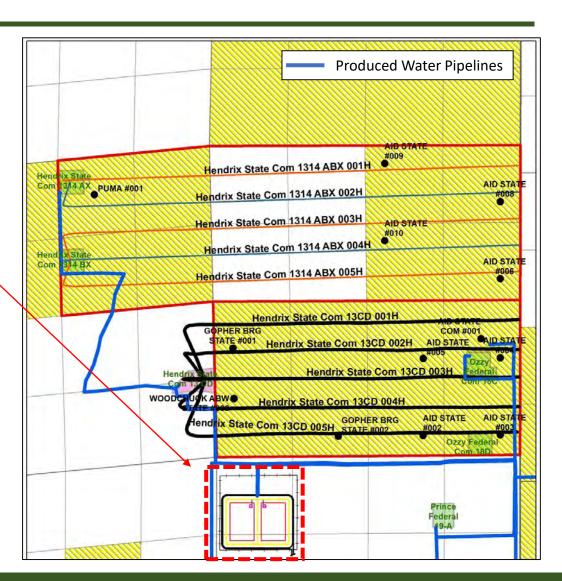
- Longfellow Energy Operates Every Producing Well within the unit
 - Aid State #6
 - Aid State #8
 - Aid State #9
 - Aid State #10
 - Puma #1
- The majority of Longfellow's wells within the unit (4 total) are producing from the Yeso formation.
- Longfellow Operates the adjacent horizontally developed Yeso unit (Hendrix CD Unit)
- Longfellow Spaced the Laterals (by bench) in accordance with the adjacent Hendrix CD Unit to maximize drainage and minimize well interference.



Existing Infrastructure Favorably Located

Longfellow Infrastructure

- Multiple Approved Drill Permits (17) & Surface Locations (7) in the immediate area.
- Longfellow Owns & Operates the Jenna COM SWD located ~3.5mi from Planned Surface Locations
- Longfellow Owns & Operates a Produced Water Recycling facility (see page 4)
- Pipeline infrastructure connecting the unit to the existing SWD and Produced Water Recycling facility



Produced Water Recycling

Longfellow Energy 2MMBbl Produced Water Recycling & Storage Facility

- Longfellow recently brought on-stream a 2
 Million Barrel Produced water storage and
 recycling facility.
- The project took ~6-months of engineering and regulatory work and cost ~\$3.25 Million dollars
- The Facility is designed to support Longfellow's drilling and completions activity in the area
- The facility is located 0.5-miles south of the proposed Hendrix ABX unit
- The facility will supply <u>recycled</u> produced water to be used on the fracs of the proposed Hendrix ABX wells
- This will limit the use of fresh water supplying the fracs as well as will reduce the need to dispose of water in the future.
- 100% of Longfellow's water production is planned for recycling and reuse for the duration of the company's development

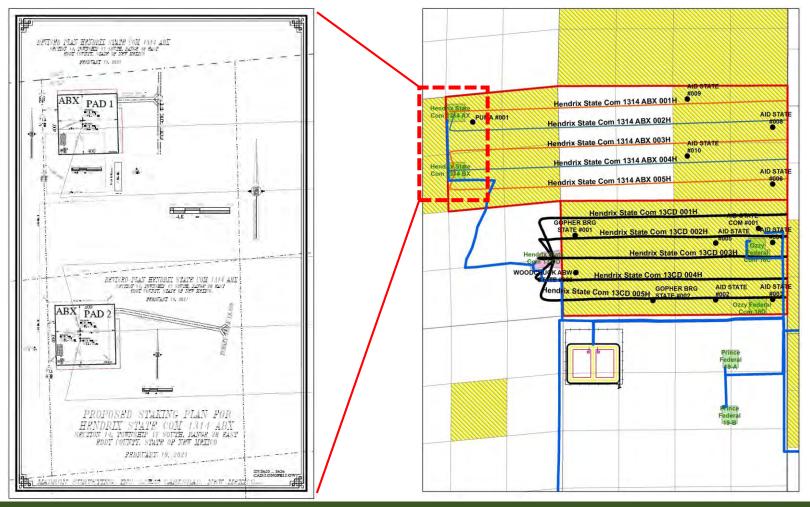


Image: Longfellow's 2MMBbl Produced Water Recycling & Storage Facility

Longfellow plans to utilize 100% of it's produced water in the drilling and completions of future wells until the end of their development plan. This will significantly reduce or eliminate both the sourcing of fresh water and the disposal of produced water for the next 5+ years.

Approved Surface Use Agreements

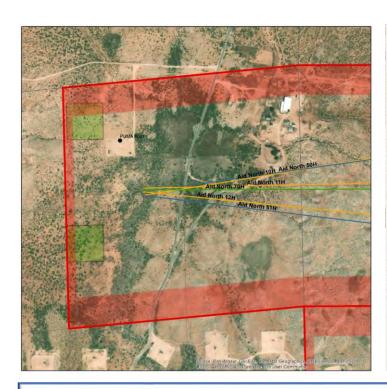
Longfellow Energy Has 2 Surface Locations Surveyed & Contracted For



Pad Placement

Spur Surface Location



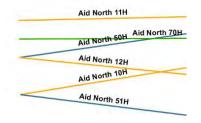




Spurs surface location does not contemplate the fact that it is in a natural water drainage area. This terrain is prone to flooding, which can lead to significant operational issues and added costs.

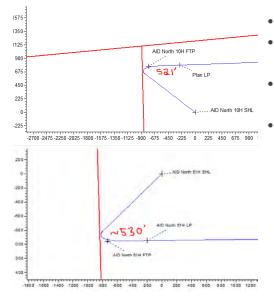
Spur Surface Locations

Surface Hole Location Errors



- The Aid North 50H and Aid North 12H share the same surface hole location
- The Aid North 10H and Aid North 51H share the same surface hole location
- This is an error.

Back-Building



- Spur's surface hole location is located ~900' east of the unit boundary
- This would require Spur to back-build their well significantly to capture maximize the productive lateral length of the well.
- Back-building ~900' from a surface location adds directional drilling costs which do not appear to be contemplated in the AFE
 - Building and turning at high rate (in degrees per 100') can create complex well geometry which can add cost to completions and production operations.

Flaring = Economic Waste, Lost Revenue, & Emissions

Spur Welch 28A Unit

- Longfellow Participated as a working interest owner in Spur's Welch 28A Unit
- The pipeline was not built on-time resulting in flaring of gas
- Total Flared Volume was ~65 MMCF of Natural Gas over a period of ~58 days
- CO2 emissions on this volume of gas is estimated to be 3,600 metric tons (IEA conversion)
- Current realized price for gas in our operated Yeso wells 3-miles away is \$2.67/MCF
- Estimated lost revenue associated with the flared volume is \$174,616
- Spur has been trucking oil to market

Longfellow Hendrix CD Unit

- Spur Participated as a working interest owner in Longfellow's Hendrix CD Unit
- The pipeline was built on-time prior to the flowback period resulting in <u>no</u> flaring
- Total Flared Volume was 0 MMCF of Natural Gas
- Longfellow pipes all oil to market

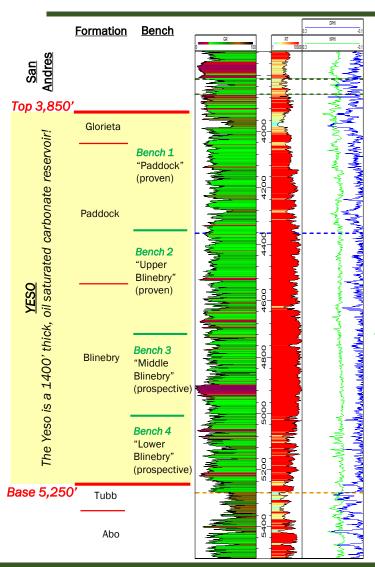
Longfellow's development plan includes the complete elimination of flaring from the operation. All gas pipelines are planned to be built to location prior to start of flowback, and all tanks are equipment with vapor recovery systems to eliminate off gas venting.

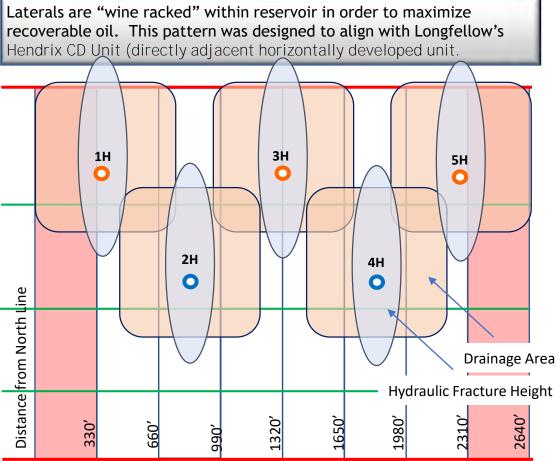


Image: Spur Welch 28A Flare

Reservoir Engineering Analysis

Longfellow Energy Plan

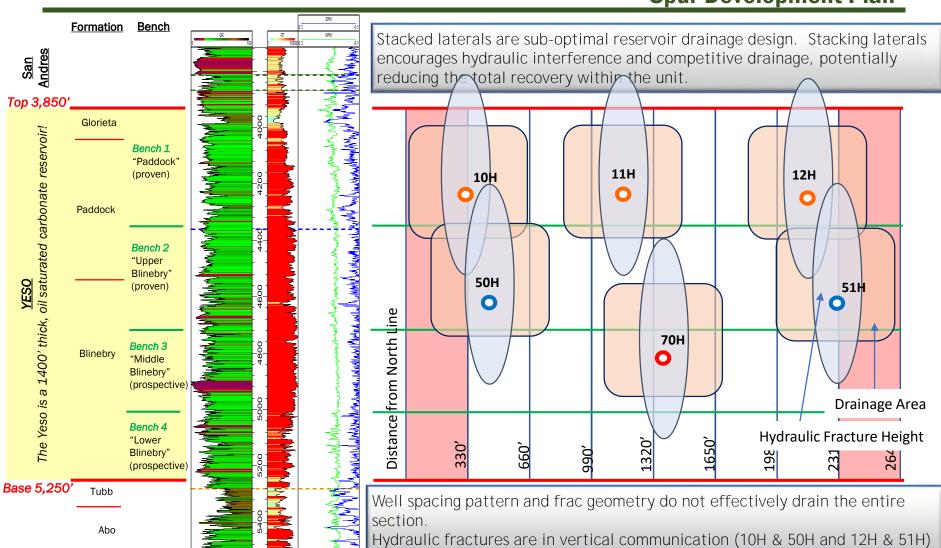




Well spacing and frac geometry effectively drain the entire section. Hydraulic fractures are not in communication.

LONGFELLOW ENERGY, LP

Spur Development Plan



LONGFELLOW ENERGY, LP

Single-Well Design and AFE Comparison

AFE Reconciliation	Longfellow		Spur			Variance
Intangible Drilling	\$	1,021,730	\$	903,833	\$	117,896
Tangible Drilling	\$	393,170	\$	334,917	\$	58,254
Intangible Completions & Facilities	\$	3,086,204	\$	2,218,000	\$	868,204
Tangible Completions & Facilities	\$	516,471	\$	400,917	\$	115,554
Total Capital Expenditure	\$	5,017,575	\$	3,857,667	\$	1,159,908
Imbedded Contingency						
Intangible Drilling Contingency	\$	97,560	\$	75,875	\$	21,685
Intangible Completions Contingency	\$	335,109			\$	335,109
Removing Contingency	\$	432,670	\$	75,875	\$	356,795
Adjusted Side-by-Side Comparison					AF	E Variances
Intangible Drilling (Adj.)	\$	924,169	\$	847,958	\$	76,211
Tangible Drilling (Adj.)	\$	393,170	\$		\$	<i>78,254</i>
Intangible Completions & Facilities (Adj.)	" \$	2,751,094	\$	2,231,500	\$	519,594
Tangible Completions & Facilities (Adj.)	\$	516,471	\$	388,417	\$	128,054
Total Capital Expenditure	\$	4,584,905	\$	3,782,792	\$	802,113

Adjusted Side-by-Side AFE is the expected cost (capex less contingency) for a single well. AFE feature codes were aligned with Longfellow AFE for comparison purposes.

AFE Variances will be addressed in the ensuing slides.

AFE Variances – Intangible & Tangible Drilling

DRILLING	Longfellow	Spur		Variance	
Drilling AFE (Intangible & Tangible)		_	=	_	
Intangible Drilling (Adj.)	\$ 924,169	\$ 847,958	\$	76,211	
Tangible Drilling (Adj.)	\$ 393,170	\$ 314,917	\$	78,254	
<u>Variance Details</u>					
1 Contract Daywork Drilling	\$ 210,400	\$ 185,000	\$	25,400	Days and Day-Rate Differences
2 Water - Fresh / Brine	\$ 25,000	\$ 250	\$	24,750	Cost missing from AFE
3 Surface Pipe Cementing	\$ 15,000	\$ -	\$	15,000	Cost missing from AFE
4 Production Casing	\$ 341,345	\$ 233,917	\$	107,429	LFE and Spur use same pipe. Steel inflation related casing costs increases not reflected

Discussion

The drilling costs for both companies are in-line with each other. Minor differences in rig rates and days only.

AFE Variance – Intangible Completions

	STIMULATION	Longfel	low		SPUR	1		V	'ariance
1	Stimulation	41 Stages @ 90bpf	\$	1,607,200	35 Stages @ 60bpf	\$	470,000		
2	Completion Chemicals	Incl. in above	\$	-		\$	165,000		
3	Proppant	Incl. in above	\$	-		\$	225,000		
4	Fuel	Incl. in above	\$	-		\$	180,000		
5	Water, Bbl	654,300	\$	654,300	436,200	\$	412,500		
			\$	2,261,500		\$	1,452,500	\$	809,000
	Normalized to Frac Size	Fluid Loading	ć	90.00	Fluid Loading	ć	60.00		40/
		\$/Bbl of Fluid Loading	Ş	25,128	\$/Bbl of Fluid Loading	Ş	24,208		-4%

Spur's Proposal

Stimulation costs are broken out into several categories (Stimulation Pumping Services, Completion Chemicals, Proppant, Fuel, and Water)

Longfellow's Proposal

Costs are broken into just Stimulation and Water, but are inclusive of all of the above cost features.

Comparing the Stimulation

Longfellow's much larger fracture stimulation (~50% larger frac jobs being pumped than Spur's well designs) the costs are <u>within 4% of each other</u> when adjusting for the size of the frac.

[Larger frac jobs = higher stimulated rock volume = increased oil recovery = more oil per unit]

AFE Variance – Tangible Completions - Artificial Lift (ESP Rental vs. Purchase)

ESP RENTAL vs PURCHASE		Longfellow			Spur		V	/ariance	
1 ESP	\$	175,000	\$	-	\$	-	\$ -	\$	175,000
2 Fixed Opex	\$	3,500	Per Month		\$	16,000	Per Month	\$	(12,500)
Note: Only major production difference	is ESP rental, therefo	ore Fixed Cost D	Difference can	be assume	d to be ESP R	ental Rate.			
	Estimated ESP Eq	uipment Life		30.00	Months				
	Break-Even (BE)	ESP Runtime		14.00	Months		Rent vs	S Purch	ase
Time before	production is belo	w ESP Range		18.40	Months		Run-Life over BE		4.40
	Remaining Usage	ble Run-Life		11.60	Months		Incr. to Rent	\$	55,000
							Salvage	\$	67,667
						Total Incre	menta Cost to Rent	\$	122,667

Spur's Proposal

ESP is being rented for a monthly fee of ~\$12,500/mo (estimated based on data available)

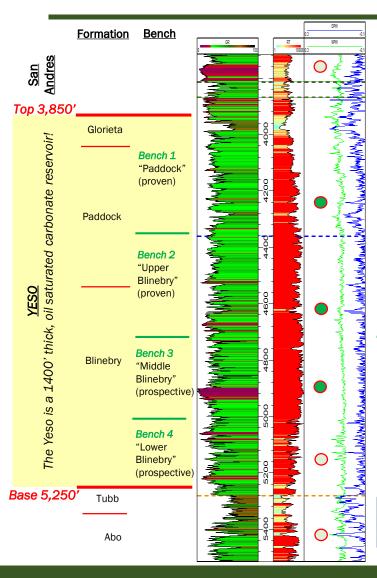
Longfellow's Proposal

ESP is being capitalized in the AFE for \$175,000

Comparison

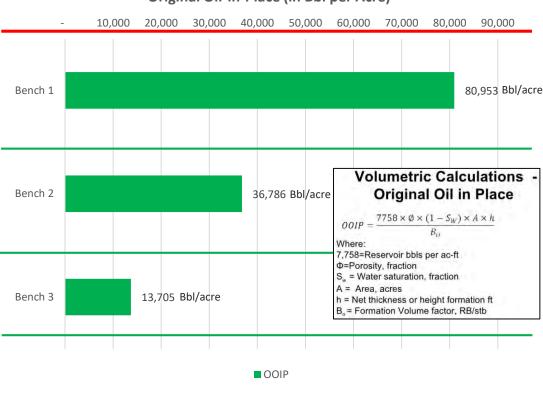
The average ESP run-life is ~30-months and can be run in new wells if the productivity of the well falls outside the optimum range.

The break-even for the purchase of the ESP is 14-months, well within the usable life of the equipment. The cost associated with renting will be ~\$55,000 incremental to Spur and forgo ~\$67,000 in ESP salvage value.



Petrophysical Volumetric Analysis

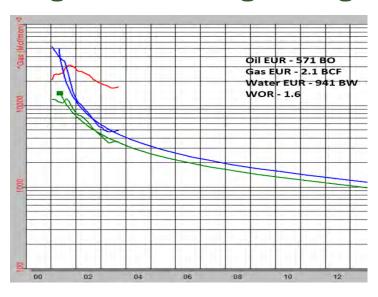
Original Oil-in-Place (in Bbl per Acre)



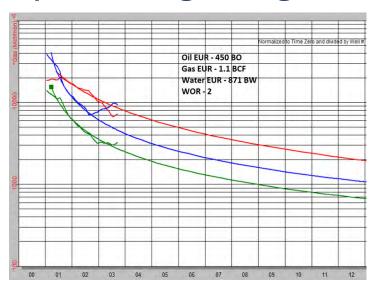
Sufficient Original Oil in Place (OOIP) is mandatory to get to an economic reserve given a recovery factor. Bo=1.21 from engineering.

Larger Frac Jobs = More Recoverable Oil & Gas

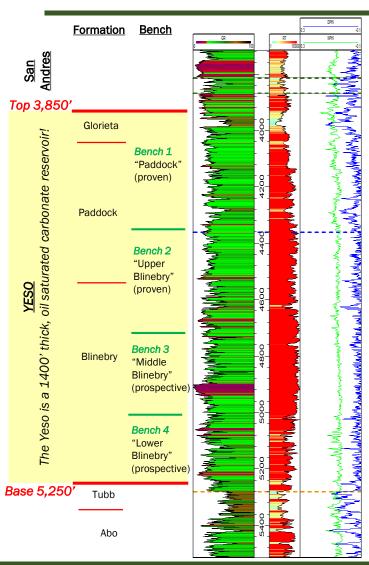
Longfellow Frac Design Analogues



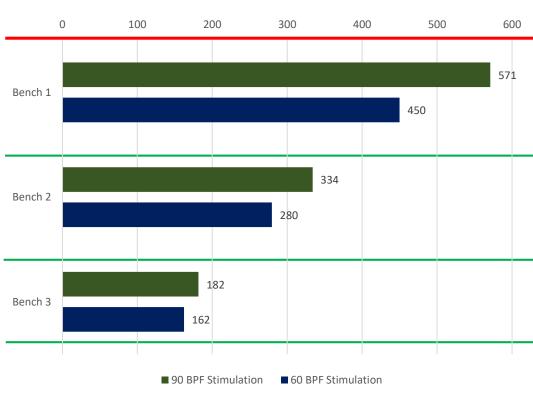
Spur Frac Design Analogues



- Decline Curve Analysis conducted on select wells stimulated with frac sizes consistent with both Longfellow's & Spur's frac design (from equivalent geologic settings) show larger frac jobs recover more oil and gas
- Results are consistent with larger studies (>500 Horizontal wells) across the Yeso play



Est. Ultimate Recovery (Oil) by Bench & Frac Size



The above analysis is based on actual public well production and completions design data.

Economic Analysis

F&D Analysis (Total Capital / Total Reserves in Unit)

DEVELOPMENT EFFICIENCY COMPARISON	Longfe	ellow		Spur			Variand	æ	
Adjusted Side-by-Side Comparison									
Intangible Drilling		\$	924,169		\$	847,958	\$ 76,211		
Tangible Drilling		\$	393,170		\$	314,917	\$ 78,254		
Intangible Completions & Facilities		\$	2,751,094		\$	2,231,500	\$ 519,594		
Tangible Completions & Facilities		\$	516,471		\$	388,417	\$ 128,054		
Total Capital per Well		\$	4,584,905		\$	3,782,792	\$ 802,113	_	
Planned Laterals & EURs	 Wells		EUR	 Wells		EUR			
Bench 1	3.0		571.0	3.0		450.0			
Bench 2	2.0		334.0	2.0		280.0			
Bench 3			182.0	1.0		162.0			
Total Development Wells Planned in Unit	5.0		1,087.0	6.0		892.0			
							Variand	е	
Total Capex & Reserves	 Capex		Reserves	 Capex	!	Reserves	 Capex	Re	serves
Bench 1	\$ 13,754,715		1,713	\$ 11,348,375		1,350	-		-
Bench 2	\$ 9,169,810		668	\$ 7,565,583		560	-		-
Bench 3	\$ 			\$ 3,782,792		162	-		-
Total Development Wells Planned in Unit	\$ 22,924,524		2,381	\$ 22,696,750		2,072	\$ 227,774		309
Find & Development Cost (\$/Barrel of Oil)	 	\$	9.63	 	\$	10.95	 	\$	1.33

Longfellow Energy has a lower Finding & Development cost, making the development plan a more efficient use of capital.

Tab 9

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. 21651

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 February 1, 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 February 4, 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.

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

Sharon J Shakeen SHARON T. SHAHEEN

SUBSCRIBED AND SWORN to before me on this 10th day of June, 2021.

Notary Public

My Commission Expires: 2-12-22

Exhibit D Longfellow Energy, LP NMOCD Case No. 21651 June 10, 2021



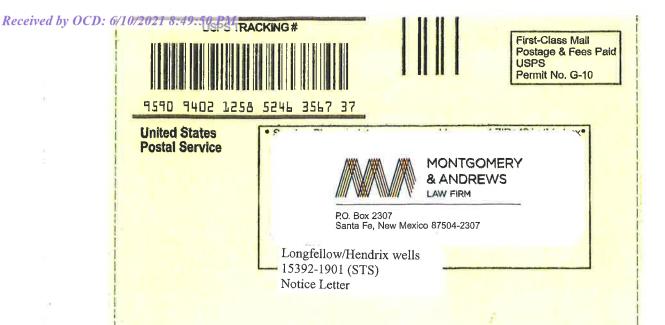
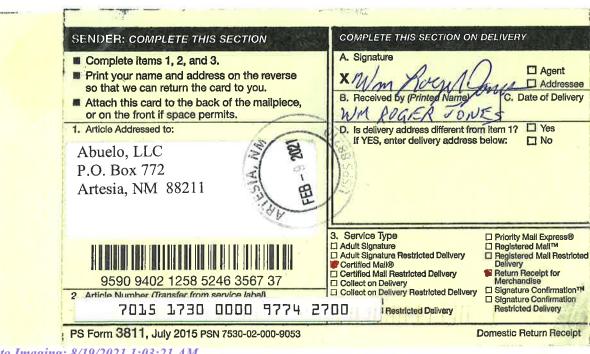




EXHIBIT A -Affidavit of Notice



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 Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mallpiece, or on the front if space permits. 1. Article Addressed to: Chisos, Ltd. 1331 Lamar St. 	A. Signature X Agent Addressee B. Received by (Printed Name) C. Date of Delivery 2-9-2021 D. Is delivery address different from item 1? If YES, enter delivery address below:
Suite 1077 Houston, TX 77010	
9590 9402 1258 5246 3567 51 2. Article Number (<i>Transfer from service label</i>)	3. Service Type ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Certified Mail® ☐ Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery ☐ Signature Confirmation™
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PS Form 3811, July 2015 PSN 7530-02-000-9053	Domestic Return Receipt



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Longfellow/Hendrix wells 15392-1901 (STS) Notice Letter



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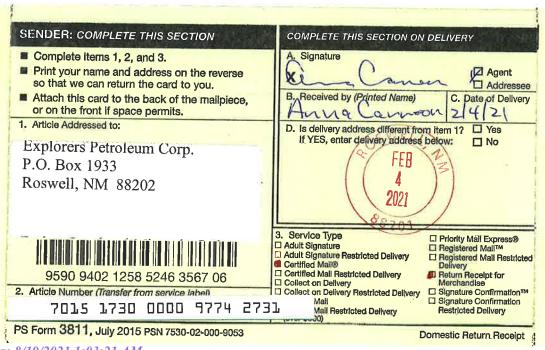
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Longfellow/Hendrix wells

15392-1901 (STS) Notice Letter



COMPLETE THIS SECTION ON DELIVERY SENDER: COMPLETE THIS SECTION 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. Attach this card to the back of the mailpiece, 8/10 or on the front if space permits. D. Is delivery address different from item 1? ☐ Yes 1. Article Addressed to: ☐ No If YES, enter delivery address below: Fasken Land and Minerals, Ltd. 6101 Holiday Hill Road Midland, TX 79707 Service Type □ Priority Mail Express® Adult Signature Adult Signature Restricted Delivery Certified Mall® Certified Mall Restricted Delivery ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery Return Receipt for Merchandise 9590 9402 1258 5246 3566 90 ☐ Collect on Delivery ☐ Signature Confirmation™ ☐ Collect on Delivery Restricted Delivery ☐ Insured Mail 2. Article Number (Transfer from service label) Signature Confirmation Mail Restricted Delivery Restricted Delivery 7015 1730 0000 9774 2748 Released to Imaging: 8/15/2021 1:03:21 AM PSN 7530-02-000-9053 Domestic Return Receipt

Received by OCD: 6/10/2021 8:49:50 PMSPS TRACKING#



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

9590 9402 1258 5246 3566 69

United States
Postal Service

Spender: Places wint vous name address and 710+10 in this hax



MONTGOMERY & ANDREWS LAW FIRM

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

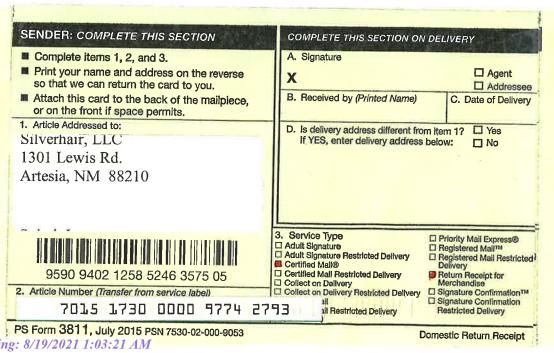
Longfellow/Hendrix wells 15392-1901 (STS) Notice Letter



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) C. Date of Delivery Attach this card to the back of the mailpiece. 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: ☐ No Mark Wilson Family Partnership □ No P.O. Box 2415 Midland, TX 79702-2415 Service Type ☐ Priority Mall Express® Adult Signature ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Adult Signature Restricted Delivery Certified Mail® Certified Mail Restricted Delivery 9590 9402 1258 5246 3566 69 Merchandise ☐ Signature Confirmation™ ☐ Collect on Delivery 2. Article Number (Transfer from service label) ☐ Collect on Delivery Restricted Delivery Signature Confirmation all Restricted Delivery Restricted Delivery 7015 1730 0000 9774 2779 PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

Received by OCD: 6/10/2021 8:49:50 PMSPS TRACKING# First-Class Mail Postage & Fees Paid USPS Permit No. G-10 1258 5246 3575 05 United States Sender Please print your name, address, and ZIP+4[®] in this box **Postal Service** MONTGOMERY & ANDREWS LAW FIRM Santa Fe, New Mexico 87504-2307





USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742793

Remove X

Your item has been delivered to an agent for final delivery in ARTESIA, NM 88210 on February 6, 2021 at 3:21 pm.

⊘ Delivered to Agent

February 6, 2021 at 3:21 pm Delivered to Agent for Final Delivery ARTESIA, NM 88210 Silverhair, LLC 1301 Lewis Rd. Artesia, NM 88210

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

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

590 9403 0913 5223 4534 68

United States
Postal Service

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

MONTGOMERY

& ANDREWS

LAW FIRM

100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON D	ELIVERY
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 B. Received by (Printed Name)	Agent Addressee C. Date of Delivery
1. Article Addressed to: SEP Permian, LLC 9655 Katy Freeway Suite 500 Houston, TX 77024	D. Is delivery address different from If YES, enter delivery address be	itoiti ii
9590 9403 0913 5223 4534 68 2. Article Number (Transfer from service label)	Adult Signature Adult Signature Restricted Delivery Certified Mali® Certified Mali® Certified Mali® Certified Mali® Certified Mali® Cellevery Collect on Delivery Cellect on Delivery	☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Return Receipt for Merchandise☐ Signature Confirmation™☐ Signature Confirmation Restricted Delivery☐

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742618

Remove X

Your item has been delivered to an agent for final delivery in HOUSTON, TX 77024 on February 5, 2021 at 10:36 am.

⊘ Delivered to Agent

February 5, 2021 at 10:36 am Delivered to Agent for Final Delivery HOUSTON, TX 77024 SEP Permian, LLC 9655 Katy Freeway Suite 500 Houston, TX 77024

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

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United States **Postal Service**



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100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109

Sender: Please print your name address and 710.48 in this to

Longfellow/Hendrix wells 15392-1901 (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 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? Way West Oil Co. If YES, enter delivery address below: P.O. Box 1647 Longview, TX 75606-1647 Service Type ☐ Priority Mall Express® Registered Mail™ Registered Mail™ Registered Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmation™ ☐ Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Restricted Delivery 9590 9403 0913 5223 4534 51 2. Article Number (Transfer from service label) Signature Confirmation Restricted Delivery

ail Restricted Delivery

7015 1730 0000 9774 2625

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742625

Remove X

Your item was delivered at 8:00 am on February 9, 2021 in LONGVIEW, TX 75601.



February 9, 2021 at 8:00 am Delivered LONGVIEW, TX 75601 Way West Oil Co. P.O. Box 1647 Longview, TX 75606-1647

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

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United States Postal Service

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



MONTGOMERY & ANDREWS

LAW FIRM

100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109



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: The Bright Company, LLC 6341 Balmy Ln. Zephyrhills, FL 33542	A. Signature X
9590 9403 0913 5223 4533 45 2. Article Number (Transfer from service label)	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery □ Collect on Delivery □ I Restricted Delivery □ Restricted Delivery

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742632

Remove X

Your item has been delivered to an agent for final delivery in ZEPHYRHILLS, FL 33542 on February 4, 2021 at 10:20 am.

⊘ Delivered to Agent

February 4, 2021 at 10:20 am Delivered to Agent for Final Delivery ZEPHYRHILLS, FL 33542 The Bright Company, LLC 6341 Balmy Ln. Zephyrhills, FL 33542

Feedbac

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ^

Can't find what you're looking for?





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

Domestic Return Receipt

9590 9402 1258 5246 3550 44

United States Postal Service

Released to Imaging: 8/15/73/12 B 8:103: Lily 11/15 PSN 7530-02-000-9053

Sender Please print vour name address and 7ID±4® in this boy



MONTGOMERY & ANDREWS LAW FIRM

100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109

Longfellow/Hendrix wells 15392-1901 (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. C. Date of Delivery B. Received by (Printed Name) Attach this card to the back of the mailpiece, 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: Yates Energy Corporation P.O. Box 2323 Roswell, NM 88202-2323 Service Type ☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ Adult Signature ☐ Adult Signature Restricted Delivery Certified Mail® ☐ Certifled Mall Restricted Delivery ☐ Collect on Delivery 9590 9402 1258 5246 3550 44 ☐ Collect on Delivery Restricted Delivery 2. Article Number (Transfer from service label) Signature Confirmation Restricted Delivery ☐ Insured Mail all Restricted Delivery 7015 1730 0000 9774 2649

USPS Tracking[®]

FAQs >

Track Another Package +

Tracking Number: 70151730000097742649

Remove X

Your item was delivered at 10:21 am on February 4, 2021 in ROSWELL, NM 88201.

⊘ Delivered

February 4, 2021 at 10:21 am Delivered ROSWELL, NM 88201 Yates Energy Corporation P.O. Box 2323 Roswell, NM 88202-2323

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Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

Can't find what you're looking for?

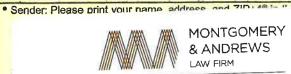




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9590 9402 1258 5246 3550 37

United States Postal Service



100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109



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
Murchison Oil & Gas, Inc. 7250 Dallas Pkwy, #1400 Plano, TX 75024	If YES, enter delivery address below: ☐ No
TENER OF THE PERSON OF THE PER	3. Service Type □ Priority Mail Express® □ Registered Mail™ □ Adult Signature Restricted Delivery □ Registered Mail Restricted

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742656

Remove X

Your item was delivered to an individual at the address at 1:45 pm on February 6, 2021 in PLANO, TX 75024.

Oblivered

February 6, 2021 at 1:45 pm Delivered, Left with Individual PLANO, TX 75024 Murchison Oil & Gas, Inc. 7250 Dallas Pkwy, #1400 Plano, TX 75024

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ^

Can't find what you're looking for?



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

9590 9402 1258 5246 3550 20

United States Postal Service Sender: Please print your name, address, and ZIP+4[®] in this hox



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100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109

Longfellow/Hendrix wells 15392-1901 (STS) Notice Letter



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	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 B. Received by (Printed Name)	☐ Agent ☐ Addressee C. Date of Delivery
	1. Article Addressed to: Apache Corp. 2000 Post Oak Blvd. Suite 100 Houston, TX 77056-4400	D. Is delivery address different fro If YES, enter delivery address	
	9590 9402 1258 5246 3550 20 2. Article Number (Transfer from service label) 7015 1730 0000 9774	3. Service Type Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Collect on Delivery Collect on Delivery Collect on Delivery Restricted Delivery Adult Signature Signature Adult Signature Certified Mail® Collect on Delivery Restricted Delivery Adult Restricted Delivery	☐ Priority Mail Express® ☐ Registered Mail™ ☐ Registered Mail Restricted Delivery ☐ Return Receipt for Merchandise ☐ Signature Confirmation™ ☐ Signature Confirmation Restricted Delivery
Released to Imaging:	87876773677; 3diy 2015 PSN 7530-02-000-9053		Domestic Return Receipt

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742663

Remove X

Your item was delivered to an individual at the address at 12:48 pm on February 4, 2021 in HOUSTON, TX 77056.

Oblivered

February 4, 2021 at 12:48 pm Delivered, Left with Individual HOUSTON, TX 77056 Apache Corp. 2000 Post Oak Blvd. Suite 100 Houston, TX 77056-4400

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ^

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USPS
Permit No. G-10

9590 9402 1258 5246 3567 20

United States
Postal Service



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

Sender Diagga print your name address and 7/D 48 in 41-1-



	SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION OF	N 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
	Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to:	,	B. Received by (Printed Name)	C. Date of Delivery
	Corbett Petroleum	- 1	D. Is delivery address different from if YES, enter delivery address	m item 1? Yes below: No
	P.O. Box 11644			
	Spring, TX 77391-1644		v.	
	- 414 Maint Aller Manager Control		3. Service Type	☐ Priority Mail Express®
	9590 9402 1258 5246 3567 20		Adult Signature Adult Signature Restricted Delivery Certified Mail® Certified Mail® Certified Mail Restricted Delivery	☐ Registered Mail™ ☐ Registered Mail Restricted Delivery
	2. Article Number (Transfer from service label)		Collect on Delivery Collect on Delivery Restricted Delivery	■ Return Receipt for Merchandise □ Signature Confirmation™ □ Signature Confirmation
f	7015 1730 0000 9774 ; PS Form 3811, July 2015 PSN 7530-02-000-9053	2717	Aail Restricted Delivery	Restricted Delivery
Released to Imagi	ng: 8/19/2021 1:03:21 AM		D	omestic Return Receipt

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742717

Remove X

Your item has been delivered and is available at a PO Box at 11:18 am on February 8, 2021 in SPRING, TX 77379.

Oblivered

February 8, 2021 at 11:18 am Delivered, PO Box SPRING, TX 77379 Corbett Petroleum P.O. Box 11644 Spring, TX 77391-1644

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

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9402 1258 5246 3566 76

United States Postal Service

MONTGOMERY



& ANDREWS LAW FIRM

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

Sender: Please print your name, address, and ZIP+49 in this box

Longfellow/Hendrix wells 15392-1901 (STS) Notice Letter



SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON D	ELIVERY
Complete items 1, 2, and 3.	A. Signature	A 448 A 44 A 46 A
Print your name and address on the reverse	x	☐ Agent
so that we can return the card to you. 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.	I treested by (r timed rame)	o. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from	item 1?
Mark E. Boling Rev Trust	If YES, enter delivery address be	elow: No
8210 Louisiana Blvd., NE		
Suite B		
Albuquerque, NM 87113		_
1 1 ,		
	3. Service Type	Priority Mail Express®
	☐ Adult Signature	Registered Mail TM
	Certified Mail®	Registered Mall Restricted Delivery
9590 9402 1258 5246 3566 76	☐ Collect on Delivery	Return Receipt for Merchandise
The state of the s	Ioli	Signature Confirmation™ Signature Confirmation
7015 1730 0000 9774 276	lail Restricted Delivery	Restricted Delivery
PS Form 3811, July 2015 PSN 7530-02-000-9053	Dor	nestic Return Receipt

Released to Imaging

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742762

Remove X

Your item has been delivered to an agent for final delivery in ALBUQUERQUE, NM 87113 on February 5, 2021 at 1:30 pm.

⊘ Delivered to Agent

February 5, 2021 at 1:30 pm Delivered to Agent for Final Delivery ALBUQUERQUE, NM 87113 Mark E. Boling Rev Trust 8210 Louisiana Blvd., NE Suite B Albuquerque, NM 87113

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

See Less ∧

Can't find what you're looking for?



9590 9402 1258 5246 3574 99

United States Postal Service



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



MONTGOMERY & ANDREWS

LAW FIRM

100 Sun Avenue, NE, Suite 410 Albuquerque, New Mexico 87109



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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DEL	LIVERY
 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: 	A. Signature X B. Received by (Printed Name) D. Is delivery address different from its If YES, enter delivery address below	Agent Addressee C. Date of Delivery The property of the prope
Spiral, Inc. P.O. Box 1933 Roswell, NM 88202		
9590 9402 1258 5246 3574 99 2. Article Number (Transfer from service label) 7015 1730 0000 9774 28	□ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery □ Insured Mail □ Insured Mail	Priority Mail Express® Registered Mail™ Registered Mail Restricted Delivery Return Receipt for Merchandise Signature Confirmation™ Signature Confirmation Restricted Delivery

USPS Tracking®

FAQs >

Track Another Package +

Tracking Number: 70151730000097742809

Remove X

Your item was delivered at 10:21 am on February 12, 2021 in ROSWELL, NM 88201.

⊘ Delivered

February 12, 2021 at 10:21 am Delivered ROSWELL, NM 88201 Spiral, Inc. P.O. Box 1933 Roswell, NM 88202

Feedback

Get Updates ✓

Text & Email Updates	~
Tracking History	~
Product Information	~

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9590 9402 1257 5246 5825 71

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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
American Standard Energy Co. 400 W. Illinois St. Suite 950 Midland, TX 79701	
9590 9402 1257 5246 5825 71 2. Article Number (Transfer from service label) 7015 1730 0000 9774 26	3. Service Type □ Adult Signature □ Adult Signature Restricted Delivery □ Certified Mail® □ Certified Mail Restricted Delivery □ Collect on Delivery □ Collect on Delivery Restricted Delivery □ Collect on Delivery Restricted Delivery □ All All Restricted Delivery ○ Signature Confirmation ○ Restricted Delivery ○ Restricted Delivery
PS Form 3811 July 2015 PSN 7530-02-000-9053	Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

or on the front if space permits.

■ Print your name and address on the reverse

so that we can return the card to you.

American Standard Energy Co.

9590 9402 1257 5246 5825 71

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

2. Article Number (Transfer from service label)

Complete items 1, 2, and 3.

1. Article Addressed to:

Suite 950

400 W. Illinois St.

Midland, TX 79701

COMPLETE THIS SECTION ON DELIVERY A. Signature ☐ Agent ☐ Addressee C. Date of Delivery B. Received by (Printed Name) Attach this card to the back of the mailpiece, D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No □ Priority Mail Express® □ Registered Mail™ □ Registered Mail Restricted □ Delivery ■ Return Receipt for Merchandise □ Signature Confirmation™ □ Signature Confirmation Restricted Delivery ☐ Adult Signature ☐ Adult Signature Restricted Delivery ☐ Conflict Mail® 3. Service Type Certified Mail Restricted Delivery ☐ Collect on Delivery ☐ Collect on Delivery Restricted Delivery Mail Restricted Delivery 7015 1730 0000 9774 Domestic Return Receipt

Suite 950 400 W. Illinois St. Midland, TX 7970 American Standard Energy Co Santa Fe, New Mexico 87504-2307 P.O. Box 2307

LAW FIRM

& ANDREWS MONTGOMERY

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USPS TRACKING#





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United States Postal Service

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



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Permit No. G-10

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Longfellow/Hendrix wells 15392-1901 (STS)

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9590 9402 1258 5246 3567 44

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USPS
Permit No. G-10

United States
Postal Service

MONTGOMERY & ANDREWS LAW FIRM

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

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



2	SENDER: COMPLETE THIS SECTION COMPLETE THIS SECTION ON DELIVERY			
Released to Imaging	 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: G.P.C. Oil and Gas Corp. P.O. Box 50638 Midland, TX 79710-0638 	A. Signature X B. Received by (Printed Name) D. Is delivery address different from item	A. Signature X	
	9590 9402 1258 5246 3567 44 2. Article Number (Transfer from service label) 7015 1730 0000 7774 - 78 F9720 3611 0 July 2015 PSN 7530-02-000-9053	Adult Signature Re Re Re Re Re Re Re	ority Mail Express® gistered Mail™ gistered Mail™ Gestroted livery turn Receipt for orchandise mature Confirmation™ prature Confirmation stricted Delivery	

THE CETETINE

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:

G.P.C. Oil and Gas Corp. P.O. Box 50638 Midland, TX 79710-0638



9590 9402 1258 5246 3567 44 2. Article Number (Transfer from service label)

2694 7015 1730 0000 9774

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

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:
- ☐ Yes ☐ No

- Service Type
- □ Adult Signature
 □ Adult Signature Restricted Delivery
- Certified Mall®
 Certified Mall Restricted Delivery
- ☐ Collect on Delivery
 ☐ Collect on Delivery Restricted Delivery
- Mail Restricted Delivery

Domestic Return Receipt

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☐ Priority Máll Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☐ Return Receipt for Merchandise

☐ Signature Confirmation
☐ Signature Confirmation
Restricted Delivery

P.O. Box 50638 G.P.C. Oil and Gas Midland, TX 79710-0638 Corp.

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

& ANDREWS LAW FIRM

7504230797 MONTGOMERY

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USPS TRACKING#



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Longfellow/Hendrix wells 15392-1901 (STS) Notice Letter

Released to Imaging: 8/19/2021 1:03:21 AM



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Carlsbad Current Argus.

Affidavit of Publication Ad # 0004586107 This is not an invoice

MONTGOMERY & ANDREWS P.A. PO BOX 2307

SANTA FE, NM 87504

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

02/04/2021

Legal Clerk

Subscribed and sworn before me this February 4,

2021:

State of WI, County of Brown

NOTARY PUBLIC

My commission expires

SHELLY HORA Notary Public State of Wisconsin

Ad # 0004586107 PO #: 0004586107 # of Affidavits1

This is not an invoice

EXHIBIT B - Affidavit of Notice

NOTICE

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

SEP Permian, LLC; Way West Oil Co.; The Bright Company, LLC; Yates Energy Corporation; Murchison Oil & Gas, Inc.; Apache Corp.; American Standard Energy Co.; Chisos, Ltd.; G.P.C. Oil and Gas Corp.; Abuelo, LLC; Corbett Petroleum, Ergodic Resources, LLC: Explorers Petroleum Corp.; Fasken Land and Minerals, Ltd.; Loco Hills Production Comp, LLC; Mark E. Boling Rev Trust; Mark Wilson Family Partnership; MRC Delaware Resources, LLC; Silverhair, LLC; Spiral, Inc.; and the New Mexico State Land Office.

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

Case No. 21651. 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 (Empire; Glorieta-Yeso [96210]) in a standard 480-acre, more or less, horizontal spacing and proration unit ("HSU") comprised of the NE/4 of Section 14 and the N/2 of Section 13, all within Township 17 South, Range 28 East, NMPM, in Eddy County, New Mexico. Applicant proposes to drill the foliowing wells; (1) Hendrix State Com 1314 ABX 001H well, to be horizontally drilled from an approximate surface hole location 361' FNL and 2400' FEL of Section 14, T175-R28E, to an approximate bottom hole location 347' FNL and 20' FEL of Section 13, T175-R28E; (2) Hendrix State Com 1314 ABX 002H well, to be horizontally drilled from an approximate surface hole location 386' FNL and 2400' FEL of Section 14, T175-R28E, to an approximate bottom hole location 800' FNL and 20' FEL of Section 13, T175-R28E; (3) Hendrix State Com 1314 ABX 003H well, to be horizontally drilled from an approximate surface hole location 1703' FNL and 2428' FEL of Section 14, T175-R28E, to an approximate bottom hole location 1254' FNL and 20' FEL of Section 13, T175-R28E; (4) Hendrix State Com 1314 ABX 004H well, to be horizontally drilled from an approximate surface hole location 1728' FNL and 2428' FEL of Section 14, T175-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 13, T175-R28E; (a) Hendrix State Com 1314 ABX 005H well, to be horizontally drilled from an approximate surface hole location 173' FNL and 2428' FEL of Section 14, T175-R28E, to an approximate bottom hole location 1708' FNL and 20' FEL of Section 14, T175-R28E, and approximate bottom hole location 1708' FNL and 20' FEL of Section 14, T175-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 14, T175-R28E, to an approximate bottom hole location 2161' FNL and 20' FEL of Section 14, T175-R28E, to an approximate

This application will be set for hearing before a Division Examiner at the New Mexico Oil Conservation Division in Santa Fe, New Mexico on March 4, 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. The hearing will be conducted on March 4, 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 attend the hearing and present testimony or evidence, you must enter your appearance by February 24, 2021, and serve the Division, counsel for the Applicant, and other parties with a prehearing statement by February 25, 2020, 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.

#4586107, Current Argus, February 4, 2021