

1625 N. French Dr., Hobbs, NM 88240

District II

811 S. First St., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico
Energy, Minerals & Natural ResourcesForm C-104
Revised August 1, 2011Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT**I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT**

¹ Operator name and Address Marathon Oil Permian LLC 990 Town & Country Blvd. Houston, TX 77024		² OGRID Number 372098
		³ Reason for Filing Code/ Effective Date NW / Effective 8/29/2022
⁴ API Number 30 - 025-46127	⁵ Pool Name Hardin Tank; Wolfcamp	⁶ Pool Code 96658
⁷ Property Code 325751	⁸ Property Name Mammoth 1 TB Federal Com	⁹ Well Number 1H

II. 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
N	1	26S	34E		448	SOUTH	1509	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	25S	34E		101	NORTH	825	WEST	LEA

¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date
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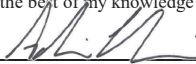
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
371960	Lucid Energy Delaware, LLC 201 S Fourth Street P.O. Box 158, Artesia, NM 88210	G
307204	Oryx Midstream Services, LLC 4000 N Big Spring St. Suite 300, Midland, TX 79705	O
371643	Solaris Water Midstream, LLC 97 Tradewinds Blvd, Suite B, Midland, TX 79706	W

IV. Well Completion Data

²¹ Spud Date 10/16/2019	²² Ready Date 8/29/2022	²³ TD 22618'	²⁴ PBTB 22601'	²⁵ Perforations 14912' - 15309'	²⁶ DHC, MC DHC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J55, STC	1188'	1155		
9-7/8"	7-5/8", 29.7#, P110, BTC	11851'	2135		
6-3/4"	5-1/2", 23#, P110, TLW	22607'	1745		

V. Well Test Data

³¹ Date New Oil 8/29/2022	³² Gas Delivery Date 8/29/2022	³³ Test Date 9/16/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2590
³⁷ Choke Size 32/64	³⁸ Oil 56	³⁹ Water 66	⁴⁰ Gas 143		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: PATRICIA MARTINEZ		
Title: Regulatory Professional			Title: PETROLEUM SPECIALIST		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 9/12/2023		
Date: 9/26/2022		Phone: 713-296-3368			

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		³ Reason for Filing Code/ Effective Date NW / Effective 8/29/2022
⁴ API Number 30 - 025-46127	⁵ Pool Name Hardin Tank; Bone Spring	⁶ Pool Code 96661
⁷ Property Code 325751	⁸ Property Name Mammoth 1 TB Federal Com	⁹ Well Number 1H

II. 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
N	1	26S	34E		448	SOUTH	1509	WEST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	25S	34E		101	NORTH	825	WEST	LEA
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

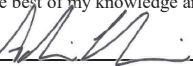
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IV. Well Completion Data

²¹ Spud Date 10/16/2019	²² Ready Date 8/29/2022	²³ TD 22618'	²⁴ PBTB 22601	²⁵ Perforations 13568' - 14912' & 15309' - 22514'	²⁶ DHC, MC DHC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17-1/2"	13-3/8", 54.5#, J55, STC	1188'	1155		
9-7/8"	7-5/8", 29.7#, P110, BTC	11851'	2135		
6-3/4"	5-1/2", 23#, P110, TLW	22607'	1745		

V. Well Test Data

³¹ Date New Oil 8/29/2022	³² Gas Delivery Date 8/29/2022	³³ Test Date 9/16/2022	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure 2590
³⁷ Choke Size 32/64	³⁸ Oil 1795	³⁹ Water 2137	⁴⁰ Gas 4626		⁴¹ Test Method Flowing
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Adrian Covarrubias			Approved by: PATRICIA MARTINEZ		
Title: Regulatory Professional			Title: PETROLEUM SPECIALIST		
E-mail Address: acovarrubias@marathonoil.com			Approval Date: 9/12/2023		
Date: 9/26/2022		Phone: 713-296-3368			

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District IV
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 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

Revised August 1, 2011
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 District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-46127	² Pool Code 96658	³ Pool Name Hardin Tank; Wolfcamp
⁴ Property Code 325751	Property Name Mammoth 1 TB FED COM	
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	
		⁶ Well Number 1H
		⁹ Elevation 3281'

¹⁰ Surface Location

UL or lot no. N	Section 1	Township 26S	Range 34E	Lot Idn	Feet from the 448	North/South line SOUTH	Feet from the 1509	East/West line WEST	County LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. D	Section 36	Township 25S	Range 34E	Lot Idn	Feet from the 101	North/South line NORTH	Feet from the 825	East/West line WEST	County LEA
¹² Dedicated Acres 640.0	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.

Infill Well 	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 820492.21' / Y: 388613.44' B - X: 820398.92' / Y: 399168.72' C - X: 823039.79' / Y: 399183.78' D - X: 823132.38' / Y: 388627.40'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 779304.71' / Y: 388555.97' B - X: 779211.91' / Y: 399110.96' C - X: 781852.75' / Y: 399126.00' D - X: 781944.85' / Y: 388569.90'	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Date 9/26/2022 Adrian Covarrubias Printed Name E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. MARCH 24, 2020 Date of Survey Signature and Seal of Professional Surveyor Certificate Number
	BOTTOM HOLE LOCATION 101' FNL 825' FWL, SECTION 36 22618' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821225.00' / Y: 399072.31' LAT: 32.09390486N / LON: 103.42952975W NAD 27, SPCS NM EAST X: 780037.97' / Y: 399014.55' LAT: 32.09377917N / LON: 103.42906444W		
	LAST TAKE POINT 2119' FNL 851' FWL, SECTION 1 15309' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821309.81' / Y: 391772.81' LAT: 32.07383933N / LON: 103.42945341W NAD 27, SPCS NM EAST X: 780122.45' / Y: 391715.24' LAT: 32.07371352N / LON: 103.42898930W		
	FIRST TAKE POINT 2516' FNL 850' FWL, SECTION 1 14912' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821313.80' / Y: 391376.20' LAT: 32.07274911N / LON: 103.42945126W NAD 27, SPCS NM EAST X: 780126.42' / Y: 391318.65' LAT: 32.07262330N / LON: 103.42898721W		
	KICK OFF POINT 122' FSL 818' FWL, SECTION 1 11898' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821309.08' / Y: 388739.52' LAT: 32.06550194N / LON: 103.42953780W NAD 27, SPCS NM EAST X: 780121.57' / Y: 388682.03' LAT: 32.06537610N / LON: 103.42907418W		
SURFACE HOLE LOCATION 448' FSL 1509' FWL, SECTION 1 NAD 83, SPCS NM EAST X: 821996.71' / Y: 389069.70' LAT: 32.06639364N / LON: 103.42730928W NAD 27, SPCS NM EAST X: 780809.21' / Y: 389012.20' LAT: 32.06626777N / LON: 103.42684568W			

Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985482 Convergence Angle: 00°29'26.29720"

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION AS-DRILLED PLAT

¹ API Number 30-025-46127	² Pool Code 96661	³ Pool Name Hardin Tank; Bone Spring
⁴ Property Code 325751	Property Name MAMMOTH 1 TB FED COM	⁶ Well Number 1H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3281'

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
N	1	26S	34E		448	SOUTH	1509	WEST	LEA
¹¹ Bottom Hole Location If Different From Surface									
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	36	25S	34E		101	NORTH	825	WEST	LEA
¹² Dedicated Acres 320.0	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.

Infill Well CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 820492.21' / Y: 388613.44' B - X: 820398.92' / Y: 399168.72' C - X: 821719.36' / Y: 399176.25' D - X: 821812.29' / Y: 388620.42' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 779304.71' / Y: 388555.97' B - X: 779211.91' / Y: 399110.96' C - X: 780532.33' / Y: 399118.48' D - X: 780624.78' / Y: 388562.93' BOTTOM HOLE LOCATION 101' FNL 825' FWL, SECTION 36 22,618' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821224.90' / Y: 399072.21' LAT: 32.09390459N / LON: 103.42953007W NAD 27, SPCS NM EAST X: 780037.87' / Y: 399014.45' LAT: 32.09377890N / LON: 103.42906476W LAST TAKE POINT 205' FNL 825' FWL, SECTION 36 22,514' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821225.16' / Y: 398968.54' LAT: 32.09361964N / LON: 103.42953204W NAD 27, SPCS NM EAST X: 780038.13' / Y: 398910.78' LAT: 32.09349394N / LON: 103.42906674W FIRST TAKE POINT 1418' FSL 808' FWL, SECTION 1 13,568' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821285.70' / Y: 390035.55' LAT: 32.06906479N / LON: 103.42957822W NAD 27, SPCS NM EAST X: 780098.25' / Y: 389978.03' LAT: 32.06893897N / LON: 103.42911439W KICK OFF POINT 122' FSL 818' FWL, SECTION 1 11898' MEASURED DEPTH IN FEET NAD 83, SPCS NM EAST X: 821309.08' / Y: 388739.52' LAT: 32.06550194N / LON: 103.42953780W NAD 27, SPCS NM EAST X: 780121.57' / Y: 388682.03' LAT: 32.06537610N / LON: 103.42907418W SURFACE HOLE LOCATION 448' FSL 1509' FWL, SECTION 1 NAD 83, SPCS NM EAST X: 821996.71' / Y: 389069.70' LAT: 32.06639364N / LON: 103.42730928W NAD 27, SPCS NM EAST X: 780809.21' / Y: 389012.20' LAT: 32.06626777N / LON: 103.42684568W NEAREST TO LEASE MD = 16,460' FURTHEST TO LEASE MD = 13,250' EXIT WOLFCAMP ENTER WOLFCAMP FTP KOP SHL 808' 1509' 818' 1418' 122' 448' 513' 517' 502' 412' 495' 496' SHEET 1 OF 1 JOB No. R3762_008 REV 2 BM 9/5/2022	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 9/26/2022 Signature Date Adrian Covarrubias Printed Name E-mail Address ¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well surface location shown on this plat was plotted from field notes of the as-staked surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Data used for underground measurements were provided by others for reference only and does not constitute field measurements performed by R-Squared Global. SEPTEMBER 12, 2022 Date of Survey <i>[Signature]</i> Signature and Seal of Professional Surveyor LLOYD P. SHORT 21653 Certificate Number
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Distances/areas relative to NAD 83 Combined Scale Factor: 0.99985482 Convergence Angle: 00°29'26.29720"



Marathon Oil Corporation

Mammoth 1 TB Fed Com No. 1H(ST01)
Lea County, NM

March 27, 2020

Job No. LNM1545819
API No. 30-025-46127

Survey Completion Report



Survey Certification Letter

March 27, 2020



Operator Name: Marathon Oil
Well Name: Mammoth 1 TB Fed Com No. 1H
County/Parish: Lea County,
State: NM
Rig Name: Precision 594
Job Number: LNM1545819

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	14,280' MD – 22,560' MD	22,618' MD	02/18/20 – 03/09/20	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266
prodirectional.com



Marathon Oil

Lea County, NM

Mammoth 1 TB Fed Com

No. 1H

ST01

Survey: ProDirectional

Survey Report

27 March, 2020





ProDirectional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 1H
Project:	Lea County, NM(NAD 83)	TVD Reference:	Well @ 3306.00usft
Site:	Mammoth 1 TB Fed Com	MD Reference:	Well @ 3306.00usft
Well:	No. 1H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	MWD-14280'-22560', PTB: 22618'	Database:	WellPlanner1

Project		Lea County, NM(NAD 83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Mammoth 1 TB Fed Com									
Site Position:		Northing:		389,069.66	usft	Latitude:		32.0663942			
From:		Map	Easting:		821,966.79	usft	Longitude:		-103.4274059		
Position Uncertainty:		0.00	usft	Slot Radius:		13-3/16	"	Grid Convergence:		0.48	°

Well		No. 1H				
Well Position	+N/-S	0.00 usft	Northing:	389,069.70 usft	Latitude:	32.0663936
	+E/-W	0.00 usft	Easting:	821,996.71 usft	Longitude:	-103.4273093
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,281.00 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/18/2020	6.50	59.67	47,635.30

Design		MWD-14280'-22560', PTB: 22618'			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	14,194.00
Vertical Section:		Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
		0.00	0.00	0.00	359.50



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey Program **Date** 3/27/2020

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
101.00	1,148.00	Survey #1 (OH)	GYRO-NS-CT	OWSG XYZ Accel with XY Static and Continuous Gyro
1,251.00	14,194.00	Survey #2 (OH)	MWD+HDGM	OWSG MWD + HRGM
14,280.00	22,618.00	Survey #1 (ST01)	MWD+HDGM	OWSG MWD + HRGM

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	389,069.70	821,996.71
101.00	0.66	217.75	101.00	-0.46	-0.46	-0.36	0.58	217.75	389,069.24	821,996.35
190.00	0.57	249.77	189.99	-1.01	-1.02	-1.09	1.49	226.82	389,068.68	821,995.62
277.00	0.52	248.04	276.99	-1.30	-1.32	-1.86	2.28	234.69	389,068.38	821,994.85
372.00	0.38	225.63	371.99	-1.68	-1.70	-2.48	3.01	235.64	389,068.00	821,994.23
467.00	0.25	204.92	466.98	-2.08	-2.11	-2.80	3.50	233.01	389,067.59	821,993.91
561.00	0.13	183.89	560.98	-2.37	-2.40	-2.89	3.75	230.31	389,067.30	821,993.82
655.00	0.03	310.21	654.98	-2.46	-2.49	-2.91	3.83	229.51	389,067.21	821,993.80
749.00	0.10	209.40	748.98	-2.52	-2.54	-2.97	3.91	229.46	389,067.16	821,993.74
844.00	0.08	202.09	843.98	-2.65	-2.68	-3.04	4.05	228.62	389,067.02	821,993.67
938.00	0.06	141.80	937.98	-2.75	-2.78	-3.03	4.11	227.53	389,066.92	821,993.68
1,032.00	0.09	141.55	1,031.98	-2.85	-2.87	-2.96	4.12	225.82	389,066.83	821,993.75
1,127.00	0.30	152.89	1,126.98	-3.13	-3.15	-2.80	4.22	221.58	389,066.55	821,993.91
1,148.00	0.28	128.38	1,147.98	-3.21	-3.23	-2.73	4.23	220.19	389,066.47	821,993.98
1,251.00	0.30	133.20	1,250.98	-3.55	-3.57	-2.34	4.27	213.19	389,066.13	821,994.37
1,340.00	0.30	106.50	1,339.98	-3.78	-3.80	-1.95	4.27	207.10	389,065.90	821,994.76
1,430.00	0.20	110.00	1,429.98	-3.91	-3.92	-1.57	4.22	201.84	389,065.78	821,995.14
1,520.00	0.30	129.00	1,519.98	-4.11	-4.12	-1.24	4.31	196.75	389,065.58	821,995.47
1,610.00	0.30	147.80	1,609.98	-4.46	-4.47	-0.93	4.57	191.78	389,065.23	821,995.78
1,699.00	0.40	147.30	1,698.98	-4.92	-4.93	-0.64	4.97	187.40	389,064.77	821,996.07



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
1,789.00	0.40	150.90	1,788.97	-5.47	-5.47	-0.32	5.48	183.33	389,064.23	821,996.39	
1,879.00	0.40	145.80	1,878.97	-6.00	-6.00	0.01	6.00	179.89	389,063.70	821,996.72	
1,968.00	0.40	135.20	1,967.97	-6.48	-6.48	0.41	6.49	176.42	389,063.22	821,997.12	
2,057.00	0.90	244.60	2,056.97	-7.00	-7.00	-0.01	7.00	180.06	389,062.70	821,996.70	
2,147.00	1.20	252.10	2,146.95	-7.58	-7.59	-1.54	7.75	191.48	389,062.11	821,995.17	
2,236.00	1.90	244.50	2,235.92	-8.48	-8.51	-3.76	9.31	203.83	389,061.19	821,992.95	
2,326.00	2.20	250.60	2,325.86	-9.67	-9.73	-6.74	11.84	214.70	389,059.97	821,989.97	
2,415.00	2.10	248.20	2,414.80	-10.82	-10.90	-9.86	14.70	222.13	389,058.80	821,986.85	
2,504.00	2.10	252.50	2,503.74	-11.89	-12.00	-12.93	17.64	227.14	389,057.70	821,983.78	
2,594.00	3.10	252.70	2,593.64	-13.07	-13.22	-16.83	21.40	231.85	389,056.48	821,979.88	
2,683.00	3.70	252.70	2,682.49	-14.60	-14.79	-21.87	26.40	235.93	389,054.91	821,974.84	
2,772.00	3.60	253.80	2,771.31	-16.18	-16.42	-27.29	31.85	238.96	389,053.28	821,969.42	
2,862.00	3.40	255.40	2,861.14	-17.60	-17.88	-32.59	37.17	241.24	389,051.82	821,964.12	
2,951.00	3.30	258.50	2,949.99	-18.73	-19.06	-37.65	42.20	243.15	389,050.64	821,959.06	
3,040.00	3.90	252.20	3,038.81	-20.12	-20.50	-43.04	47.67	244.54	389,049.20	821,953.67	
3,129.00	4.40	248.40	3,127.58	-22.25	-22.68	-49.10	54.08	245.21	389,047.02	821,947.61	
3,219.00	4.00	250.50	3,217.33	-24.51	-25.00	-55.27	60.66	245.66	389,044.70	821,941.44	
3,308.00	3.70	253.70	3,306.13	-26.31	-26.84	-60.95	66.60	246.24	389,042.86	821,935.76	
3,397.00	2.60	253.40	3,395.00	-27.65	-28.22	-65.64	71.45	246.74	389,041.48	821,931.07	
3,486.00	2.40	249.30	3,483.91	-28.85	-29.46	-69.32	75.32	246.98	389,040.24	821,927.39	
3,575.00	3.20	243.00	3,572.81	-30.60	-31.24	-73.28	79.66	246.91	389,038.46	821,923.43	
3,665.00	3.60	240.40	3,662.65	-33.10	-33.78	-77.97	84.97	246.58	389,035.92	821,918.74	
3,754.00	4.00	240.00	3,751.45	-35.98	-36.71	-83.09	90.84	246.16	389,032.99	821,913.62	
3,843.00	4.10	239.30	3,840.23	-39.11	-39.89	-88.51	97.09	245.74	389,029.81	821,908.20	
3,933.00	3.80	242.20	3,930.02	-42.10	-42.92	-93.92	103.26	245.44	389,026.78	821,902.79	
4,022.00	2.70	251.30	4,018.87	-44.11	-44.97	-98.51	108.29	245.46	389,024.73	821,898.20	
4,112.00	2.70	247.20	4,108.77	-45.57	-46.47	-102.48	112.52	245.61	389,023.23	821,894.23	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
4,201.00	3.00	242.80	4,197.66	-47.42	-48.35	-106.48	116.94	245.58	389,021.35	821,890.23	
4,290.00	3.60	240.70	4,286.51	-49.81	-50.78	-110.99	122.05	245.41	389,018.92	821,885.72	
4,380.00	3.80	242.50	4,376.33	-52.52	-53.54	-116.10	127.85	245.24	389,016.16	821,880.61	
4,469.00	3.30	238.50	4,465.16	-55.18	-56.24	-120.90	133.34	245.05	389,013.46	821,875.81	
4,558.00	3.60	232.70	4,553.99	-58.18	-59.27	-125.30	138.61	244.69	389,010.43	821,871.41	
4,647.00	3.90	224.90	4,642.80	-61.97	-63.11	-129.66	144.21	244.05	389,006.59	821,867.05	
4,737.00	4.10	227.30	4,732.59	-66.28	-67.46	-134.19	150.19	243.31	389,002.24	821,862.52	
4,826.00	4.20	230.00	4,821.35	-70.49	-71.71	-139.02	156.43	242.71	388,997.99	821,857.69	
4,915.00	3.90	211.50	4,910.13	-75.13	-76.39	-143.10	162.21	241.91	388,993.31	821,853.61	
5,005.00	4.10	193.80	4,999.92	-80.85	-82.12	-145.47	167.05	240.55	388,987.58	821,851.24	
5,094.00	4.10	203.90	5,088.69	-86.83	-88.12	-147.52	171.83	239.15	388,981.58	821,849.19	
5,184.00	5.00	220.30	5,178.41	-92.73	-94.05	-151.36	178.20	238.14	388,975.65	821,845.35	
5,273.00	5.70	231.60	5,267.02	-98.38	-99.76	-157.33	186.29	237.62	388,969.94	821,839.38	
5,362.00	5.00	229.60	5,355.64	-103.58	-105.01	-163.75	194.53	237.33	388,964.69	821,832.96	
5,451.00	5.00	228.20	5,444.30	-108.63	-110.11	-169.59	202.20	237.00	388,959.59	821,827.12	
5,541.00	6.20	238.20	5,533.87	-113.74	-115.29	-176.65	210.94	236.87	388,954.41	821,820.06	
5,630.00	6.80	239.90	5,622.30	-118.84	-120.46	-185.29	221.01	236.97	388,949.24	821,811.42	
5,720.00	7.50	241.00	5,711.60	-124.28	-125.98	-195.04	232.19	237.14	388,943.72	821,801.67	
5,809.00	8.20	240.70	5,799.76	-130.11	-131.91	-205.65	244.32	237.32	388,937.79	821,791.06	
5,898.00	7.90	240.50	5,887.88	-136.13	-138.02	-216.51	256.76	237.48	388,931.68	821,780.20	
5,988.00	7.50	239.90	5,977.07	-142.03	-144.02	-226.97	268.81	237.60	388,925.68	821,769.74	
6,077.00	7.70	245.80	6,065.29	-147.30	-149.37	-237.44	280.52	237.83	388,920.33	821,759.27	
6,167.00	7.90	249.30	6,154.46	-151.85	-154.03	-248.72	292.56	238.23	388,915.67	821,747.99	
6,256.00	8.00	248.00	6,242.60	-156.24	-158.51	-260.19	304.67	238.65	388,911.19	821,736.52	
6,345.00	8.80	246.90	6,330.65	-161.12	-163.50	-272.19	317.52	239.01	388,906.20	821,724.52	
6,434.00	9.40	245.90	6,418.53	-166.65	-169.14	-285.09	331.49	239.32	388,900.56	821,711.62	
6,524.00	9.30	244.00	6,507.33	-172.72	-175.33	-298.33	346.04	239.56	388,894.37	821,698.38	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
6,613.00	9.40	243.10	6,595.15	-179.05	-181.77	-311.28	360.47	239.72	388,887.93	821,685.43	
6,702.00	9.30	242.10	6,682.97	-185.59	-188.43	-324.12	374.91	239.83	388,881.27	821,672.59	
6,791.00	9.30	241.70	6,770.80	-192.25	-195.20	-336.80	389.28	239.90	388,874.50	821,659.91	
6,881.00	9.10	243.50	6,859.64	-198.77	-201.82	-349.58	403.65	240.00	388,867.88	821,647.13	
6,970.00	9.10	244.00	6,947.52	-204.88	-208.05	-362.20	417.70	240.13	388,861.65	821,634.51	
7,060.00	9.00	243.50	7,036.40	-211.03	-214.31	-374.90	431.83	240.25	388,855.39	821,621.81	
7,149.00	8.70	245.90	7,124.34	-216.78	-220.16	-387.27	445.48	240.38	388,849.54	821,609.44	
7,238.00	8.70	250.90	7,212.32	-221.62	-225.12	-399.78	458.80	240.62	388,844.58	821,596.93	
7,328.00	8.40	250.60	7,301.32	-225.92	-229.53	-412.41	471.98	240.90	388,840.17	821,584.30	
7,417.00	8.40	250.40	7,389.36	-230.15	-233.87	-424.66	484.80	241.16	388,835.83	821,572.05	
7,506.00	8.30	250.10	7,477.42	-234.41	-238.23	-436.83	497.57	241.39	388,831.47	821,559.88	
7,596.00	8.00	249.50	7,566.51	-238.71	-242.64	-448.80	510.19	241.60	388,827.06	821,547.91	
7,685.00	7.90	250.00	7,654.66	-242.87	-246.90	-460.35	522.38	241.79	388,822.80	821,536.36	
7,774.00	7.50	249.10	7,742.85	-246.94	-251.06	-471.52	534.20	241.97	388,818.64	821,525.19	
7,864.00	8.50	246.40	7,831.98	-251.60	-255.82	-483.11	546.66	242.10	388,813.88	821,513.60	
7,953.00	9.30	245.00	7,919.90	-257.16	-261.49	-495.65	560.40	242.18	388,808.21	821,501.06	
8,042.00	8.40	245.90	8,007.84	-262.74	-267.19	-508.10	574.07	242.26	388,802.51	821,488.61	
8,131.00	7.90	246.00	8,095.94	-267.78	-272.33	-519.63	586.66	242.34	388,797.37	821,477.08	
8,221.00	7.20	245.70	8,185.16	-272.53	-277.17	-530.42	598.47	242.41	388,792.53	821,466.29	
8,310.00	8.10	244.60	8,273.37	-277.42	-282.15	-541.16	610.30	242.46	388,787.55	821,455.55	
8,399.00	8.40	243.60	8,361.45	-282.90	-287.73	-552.65	623.07	242.50	388,781.97	821,444.06	
8,488.00	8.10	242.10	8,449.53	-288.62	-293.56	-564.02	635.84	242.50	388,776.14	821,432.69	
8,577.00	7.50	241.60	8,537.70	-294.23	-299.25	-574.67	647.91	242.49	388,770.45	821,422.04	
8,667.00	6.90	241.00	8,626.99	-299.55	-304.67	-584.56	659.19	242.47	388,765.03	821,412.15	
8,756.00	6.40	240.10	8,715.40	-304.54	-309.73	-593.54	669.49	242.44	388,759.97	821,403.17	
8,845.00	5.80	239.50	8,803.89	-309.22	-314.49	-601.71	678.94	242.41	388,755.21	821,395.00	
8,935.00	5.60	239.80	8,893.45	-313.67	-319.00	-609.43	687.87	242.37	388,750.70	821,387.28	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
9,024.00	5.30	239.70	8,982.04	-317.87	-323.26	-616.73	696.31	242.34	388,746.44	821,379.98	
9,113.00	5.10	240.00	9,070.68	-321.86	-327.31	-623.70	704.37	242.31	388,742.39	821,373.01	
9,203.00	4.90	239.30	9,160.33	-325.76	-331.28	-630.47	712.21	242.28	388,738.42	821,366.24	
9,292.00	4.50	237.90	9,249.04	-329.50	-335.07	-636.70	719.48	242.24	388,734.63	821,360.01	
9,381.00	4.00	235.60	9,337.79	-333.06	-338.68	-642.22	726.05	242.19	388,731.02	821,354.49	
9,471.00	3.40	233.00	9,427.60	-336.40	-342.06	-646.94	731.80	242.13	388,727.64	821,349.77	
9,561.00	2.90	228.80	9,517.47	-339.47	-345.17	-650.78	736.65	242.06	388,724.53	821,345.93	
9,650.00	2.50	229.00	9,606.37	-342.20	-347.92	-653.94	740.74	241.99	388,721.78	821,342.77	
9,739.00	1.80	226.90	9,695.30	-344.41	-350.15	-656.43	743.98	241.92	388,719.55	821,340.28	
9,829.00	1.50	232.00	9,785.27	-346.08	-351.84	-658.39	746.50	241.88	388,717.86	821,338.32	
9,918.00	1.50	236.30	9,874.24	-347.43	-353.21	-660.27	748.81	241.86	388,716.49	821,336.44	
10,007.00	1.50	238.60	9,963.21	-348.67	-354.46	-662.24	751.13	241.84	388,715.24	821,334.47	
10,097.00	1.50	251.50	10,053.18	-349.64	-355.45	-664.36	753.47	241.85	388,714.25	821,332.35	
10,183.00	1.70	263.90	10,139.14	-350.11	-355.94	-666.70	755.76	241.90	388,713.76	821,330.01	
10,273.00	1.80	273.00	10,229.10	-350.15	-356.01	-669.44	758.21	242.00	388,713.69	821,327.27	
10,362.00	2.10	279.10	10,318.05	-349.79	-355.68	-672.44	760.71	242.12	388,714.02	821,324.27	
10,451.00	1.50	293.40	10,407.00	-349.05	-354.96	-675.12	762.75	242.27	388,714.74	821,321.59	
10,541.00	1.40	300.60	10,496.98	-348.01	-353.93	-677.15	764.06	242.41	388,715.77	821,319.56	
10,630.00	1.30	331.60	10,585.95	-346.55	-352.49	-678.56	764.65	242.55	388,717.21	821,318.15	
10,719.00	1.20	14.50	10,674.93	-344.76	-350.70	-678.81	764.05	242.68	388,719.00	821,317.90	
10,809.00	1.70	30.80	10,764.90	-342.71	-348.64	-677.89	762.29	242.78	388,721.06	821,318.82	
10,898.00	1.50	24.10	10,853.87	-340.52	-346.44	-676.74	760.26	242.89	388,723.26	821,319.97	
10,987.00	1.30	8.80	10,942.84	-338.47	-344.38	-676.11	758.76	243.01	388,725.32	821,320.60	
11,076.00	1.10	23.00	11,031.82	-336.69	-342.59	-675.62	757.52	243.11	388,727.11	821,321.09	
11,165.00	1.10	18.60	11,120.81	-335.10	-341.00	-675.02	756.26	243.20	388,728.70	821,321.69	
11,255.00	1.70	2.50	11,210.78	-332.95	-338.85	-674.68	754.99	243.33	388,730.85	821,322.03	
11,344.00	2.50	350.50	11,299.72	-329.71	-335.61	-674.94	753.78	243.56	388,734.09	821,321.77	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
11,434.00	1.40	308.20	11,389.67	-327.08	-333.00	-676.13	753.69	243.78	388,736.70	821,320.58	
11,523.00	1.60	272.20	11,478.64	-326.35	-332.28	-678.23	755.25	243.90	388,737.42	821,318.48	
11,612.00	1.50	284.10	11,567.61	-325.99	-331.95	-680.60	757.23	244.00	388,737.75	821,316.11	
11,702.00	1.40	294.90	11,657.58	-325.22	-331.20	-682.74	758.83	244.12	388,738.50	821,313.97	
11,802.00	1.40	276.90	11,757.55	-324.54	-330.53	-685.06	760.63	244.24	388,739.17	821,311.65	
11,898.00	1.71	278.53	11,853.52	-324.17	-330.18	-687.64	762.80	244.35	388,739.52	821,309.07	
11,992.00	2.02	315.62	11,947.47	-322.75	-328.79	-690.19	764.50	244.53	388,740.91	821,306.52	
12,087.00	17.41	9.49	12,040.90	-307.45	-313.47	-689.01	756.96	245.54	388,756.23	821,307.70	
12,181.00	25.27	5.80	12,128.39	-273.60	-279.58	-684.65	739.54	247.79	388,790.12	821,312.06	
12,275.00	35.65	1.05	12,209.31	-226.14	-232.10	-682.12	720.52	251.21	388,837.60	821,314.59	
12,369.00	43.69	358.07	12,281.62	-166.20	-172.16	-682.71	704.08	255.85	388,897.54	821,314.00	
12,463.00	49.93	356.31	12,345.92	-97.76	-103.75	-686.12	693.92	261.40	388,965.95	821,310.59	
12,558.00	58.73	358.15	12,401.27	-20.72	-26.74	-689.78	690.30	267.78	389,042.96	821,306.93	
12,652.00	66.55	0.97	12,444.44	62.69	56.67	-690.35	692.67	274.69	389,126.37	821,306.36	
12,746.00	76.62	359.21	12,474.10	151.75	145.73	-690.25	705.46	281.92	389,215.43	821,306.46	
12,840.00	89.19	357.50	12,485.69	244.82	238.78	-692.94	732.93	289.01	389,308.48	821,303.77	
12,934.00	89.98	355.61	12,486.37	338.69	332.61	-698.59	773.72	295.46	389,402.31	821,298.12	
13,061.00	89.85	356.66	12,486.56	465.47	459.32	-707.15	843.22	303.01	389,529.02	821,289.56	
13,155.00	88.66	358.59	12,487.78	559.41	553.22	-711.04	900.91	307.88	389,622.92	821,285.67	
13,250.00	87.30	0.35	12,491.13	654.34	648.15	-711.92	962.77	312.32	389,717.85	821,284.79	
13,345.00	87.40	0.00	12,495.52	749.23	743.05	-711.63	1,028.85	316.24	389,812.75	821,285.08	
13,440.00	88.40	0.40	12,499.00	844.16	837.98	-711.30	1,099.16	319.67	389,907.68	821,285.41	
13,534.00	88.90	0.10	12,501.22	938.12	931.96	-710.89	1,172.14	322.66	390,001.66	821,285.82	
13,628.00	89.60	359.80	12,502.45	1,032.11	1,025.95	-710.97	1,248.22	325.28	390,095.65	821,285.74	
13,722.00	89.30	359.20	12,503.35	1,126.11	1,119.94	-711.79	1,326.99	327.56	390,189.64	821,284.92	
13,816.00	90.00	358.90	12,503.92	1,220.10	1,213.92	-713.35	1,408.01	329.56	390,283.62	821,283.36	
13,911.00	92.00	0.40	12,502.26	1,315.08	1,308.90	-713.93	1,490.94	331.39	390,378.60	821,282.78	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
14,005.00	94.00	1.10		12,497.34	1,408.92	1,402.76	-712.70	1,573.43	333.07	390,472.46	821,284.01
14,100.00	89.70	0.50		12,494.28	1,503.83	1,497.68	-711.38	1,658.04	334.59	390,567.38	821,285.33
14,194.00	86.30	359.70		12,497.56	1,597.75	1,591.60	-711.21	1,743.28	335.92	390,661.30	821,285.50
14,280.00	84.00	359.10		12,504.83	1,683.44	1,677.29	-712.11	1,822.19	337.00	390,746.99	821,284.60
Pro MWD First ST01 Survey: 14280' MD											
14,374.00	87.00	359.40		12,512.20	1,777.13	1,770.98	-713.33	1,909.24	338.06	390,840.68	821,283.38
14,477.00	87.70	2.10		12,516.97	1,879.99	1,873.85	-711.99	2,004.55	339.20	390,943.55	821,284.72
14,573.00	86.60	4.20		12,521.74	1,975.67	1,969.58	-706.72	2,092.53	340.26	391,039.28	821,289.99
14,667.00	84.30	4.90		12,529.20	2,069.00	2,062.98	-699.29	2,178.28	341.27	391,132.68	821,297.42
14,763.00	84.00	4.70		12,538.98	2,164.09	2,158.14	-691.30	2,266.16	342.24	391,227.84	821,305.41
14,857.00	86.50	3.10		12,546.77	2,257.49	2,251.59	-684.93	2,353.47	343.08	391,321.29	821,311.78
14,952.00	88.70	1.10		12,550.74	2,352.29	2,346.44	-681.45	2,443.39	343.81	391,416.14	821,315.26
15,046.00	90.20	0.00		12,551.65	2,446.27	2,440.42	-680.55	2,533.54	344.42	391,510.12	821,316.16
15,139.00	91.30	356.60		12,550.43	2,539.23	2,533.36	-683.31	2,623.89	344.91	391,603.06	821,313.40
15,233.00	92.60	359.90		12,547.23	2,633.13	2,627.25	-686.18	2,715.38	345.36	391,696.95	821,310.53
15,329.00	94.10	359.00		12,541.62	2,728.97	2,723.07	-687.10	2,808.42	345.84	391,792.77	821,309.61
15,422.00	93.40	1.10		12,535.54	2,821.76	2,815.87	-687.02	2,898.47	346.29	391,885.57	821,309.69
15,517.00	94.60	3.40		12,528.91	2,916.41	2,910.56	-683.30	2,989.69	346.79	391,980.26	821,313.41
15,611.00	94.90	4.30		12,521.12	3,009.82	3,004.02	-677.01	3,079.36	347.30	392,073.72	821,319.70
15,705.00	95.40	4.70		12,512.69	3,103.08	3,097.35	-669.66	3,168.92	347.80	392,167.05	821,327.05
15,799.00	93.40	5.20		12,505.48	3,196.37	3,190.72	-661.57	3,258.59	348.29	392,260.42	821,335.14
15,894.00	93.10	4.50		12,500.09	3,290.81	3,285.23	-653.56	3,349.61	348.75	392,354.93	821,343.15
15,989.00	91.90	4.30		12,495.95	3,385.37	3,379.86	-646.27	3,441.09	349.17	392,449.56	821,350.44
16,083.00	89.50	2.20		12,494.80	3,479.15	3,473.69	-640.95	3,532.32	349.55	392,543.39	821,355.76
16,177.00	90.20	1.30		12,495.04	3,573.07	3,567.64	-638.08	3,624.25	349.86	392,637.34	821,358.63
16,271.00	91.20	0.40		12,493.90	3,667.04	3,661.62	-636.68	3,716.56	350.14	392,731.32	821,360.03
16,365.00	92.40	0.00		12,490.94	3,760.98	3,755.57	-636.35	3,809.10	350.38	392,825.27	821,360.36



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
16,460.00	93.00	359.60	12,486.47	3,855.87	3,850.47	-636.68	3,902.75	350.61	392,920.17	821,360.03	
16,555.00	93.00	358.90	12,481.50	3,950.74	3,945.33	-637.93	3,996.57	350.82	393,015.03	821,358.78	
16,649.00	93.10	358.90	12,476.49	4,044.60	4,039.18	-639.73	4,089.52	351.00	393,108.88	821,356.98	
16,743.00	91.20	357.50	12,472.97	4,138.51	4,133.06	-642.68	4,182.73	351.16	393,202.76	821,354.03	
16,838.00	91.90	354.90	12,470.40	4,233.31	4,227.80	-648.97	4,277.32	351.27	393,297.50	821,347.74	
16,931.00	90.60	358.20	12,468.37	4,326.15	4,320.60	-654.57	4,369.90	351.39	393,390.30	821,342.14	
17,026.00	89.30	359.10	12,468.45	4,421.13	4,415.57	-656.80	4,464.15	351.54	393,485.27	821,339.91	
17,120.00	88.50	359.80	12,470.26	4,515.11	4,509.55	-657.71	4,557.26	351.70	393,579.25	821,339.00	
17,215.00	87.70	358.90	12,473.41	4,610.06	4,604.49	-658.78	4,651.38	351.86	393,674.19	821,337.93	
17,309.00	87.70	358.70	12,477.18	4,703.98	4,698.39	-660.75	4,744.62	351.99	393,768.09	821,335.96	
17,404.00	88.40	358.40	12,480.41	4,798.91	4,793.30	-663.15	4,838.96	352.12	393,863.00	821,333.56	
17,498.00	89.10	358.20	12,482.46	4,892.86	4,887.24	-665.94	4,932.40	352.24	393,956.94	821,330.77	
17,592.00	90.70	358.40	12,482.62	4,986.84	4,981.20	-668.73	5,025.88	352.35	394,050.90	821,327.98	
17,687.00	91.30	359.20	12,480.97	5,081.82	5,076.16	-670.72	5,120.28	352.47	394,145.86	821,325.99	
17,783.00	91.10	358.90	12,478.96	5,177.79	5,172.12	-672.31	5,215.64	352.59	394,241.82	821,324.40	
17,876.00	90.10	357.30	12,477.98	5,270.76	5,265.06	-675.39	5,308.21	352.69	394,334.76	821,321.32	
17,970.00	90.20	357.10	12,477.74	5,364.68	5,358.95	-679.98	5,401.92	352.77	394,428.65	821,316.73	
18,066.00	90.50	356.60	12,477.15	5,460.58	5,454.80	-685.26	5,497.68	352.84	394,524.50	821,311.45	
18,160.00	91.80	356.60	12,475.26	5,554.43	5,548.62	-690.83	5,591.46	352.90	394,618.32	821,305.88	
18,254.00	90.10	357.10	12,473.71	5,648.32	5,642.46	-696.00	5,685.22	352.97	394,712.16	821,300.71	
18,349.00	91.40	357.40	12,472.46	5,743.23	5,737.34	-700.56	5,779.95	353.04	394,807.04	821,296.15	
18,443.00	93.50	357.90	12,468.44	5,837.09	5,831.17	-704.41	5,873.56	353.11	394,900.87	821,292.30	
18,536.00	91.40	358.30	12,464.47	5,929.98	5,924.03	-707.49	5,966.12	353.19	394,993.73	821,289.22	
18,632.00	91.20	358.50	12,462.29	6,025.93	6,019.96	-710.17	6,061.71	353.27	395,089.66	821,286.54	
18,728.00	91.10	358.20	12,460.36	6,121.89	6,115.91	-712.93	6,157.32	353.35	395,185.61	821,283.78	
18,823.00	92.40	358.70	12,457.46	6,216.83	6,210.82	-715.50	6,251.90	353.43	395,280.52	821,281.21	
18,918.00	94.00	359.00	12,452.16	6,311.67	6,305.65	-717.40	6,346.33	353.51	395,375.35	821,279.31	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
19,012.00	93.80	359.90	12,445.77	6,405.46	6,399.43	-718.30	6,439.62	353.60	395,469.13	821,278.41	
19,107.00	91.30	359.40	12,441.54	6,500.35	6,494.33	-718.88	6,533.99	353.68	395,564.03	821,277.83	
19,201.00	89.10	359.10	12,441.21	6,594.35	6,588.31	-720.11	6,627.55	353.76	395,658.01	821,276.60	
19,296.00	89.50	359.70	12,442.37	6,689.34	6,683.30	-721.11	6,722.09	353.84	395,753.00	821,275.60	
19,391.00	88.80	358.20	12,443.78	6,784.32	6,778.27	-722.85	6,816.70	353.91	395,847.97	821,273.86	
19,487.00	89.90	357.70	12,444.87	6,880.28	6,874.20	-726.28	6,912.46	353.97	395,943.90	821,270.43	
19,581.00	90.90	358.30	12,444.21	6,974.24	6,968.14	-729.56	7,006.23	354.02	396,037.84	821,267.15	
19,675.00	90.20	357.00	12,443.31	7,068.18	7,062.05	-733.42	7,100.04	354.07	396,131.75	821,263.29	
19,769.00	91.60	356.60	12,441.84	7,162.07	7,155.89	-738.66	7,193.92	354.11	396,225.59	821,258.05	
19,864.00	90.70	357.60	12,439.93	7,256.96	7,250.75	-743.47	7,288.77	354.15	396,320.45	821,253.24	
19,958.00	91.20	358.10	12,438.37	7,350.91	7,344.67	-746.99	7,382.56	354.19	396,414.37	821,249.72	
20,053.00	91.80	357.80	12,435.88	7,445.84	7,439.58	-750.39	7,477.32	354.24	396,509.28	821,246.32	
20,148.00	90.40	359.10	12,434.06	7,540.80	7,534.52	-752.96	7,572.05	354.29	396,604.22	821,243.75	
20,242.00	89.30	359.40	12,434.31	7,634.80	7,628.51	-754.19	7,665.70	354.35	396,698.21	821,242.52	
20,336.00	90.80	359.10	12,434.22	7,728.80	7,722.50	-755.42	7,759.36	354.41	396,792.20	821,241.29	
20,430.00	90.30	359.50	12,433.32	7,822.79	7,816.49	-756.57	7,853.02	354.47	396,886.19	821,240.14	
20,525.00	89.80	359.10	12,433.24	7,917.79	7,911.48	-757.73	7,947.68	354.53	396,981.18	821,238.98	
20,619.00	91.00	358.90	12,432.58	8,011.78	8,005.46	-759.37	8,041.40	354.58	397,075.16	821,237.34	
20,713.00	88.10	358.60	12,433.32	8,105.76	8,099.43	-761.42	8,135.14	354.63	397,169.13	821,235.29	
20,808.00	88.70	358.50	12,435.97	8,200.71	8,194.36	-763.82	8,229.88	354.67	397,264.06	821,232.89	
20,904.00	91.00	358.00	12,436.22	8,296.68	8,290.31	-766.75	8,325.69	354.72	397,360.01	821,229.96	
20,998.00	91.80	357.60	12,433.93	8,390.61	8,384.21	-770.36	8,419.52	354.75	397,453.91	821,226.35	
21,094.00	91.60	359.40	12,431.08	8,486.55	8,480.13	-772.87	8,515.28	354.79	397,549.83	821,223.84	
21,189.00	91.50	358.40	12,428.51	8,581.51	8,575.07	-774.70	8,610.00	354.84	397,644.77	821,222.01	
21,283.00	92.70	358.40	12,425.07	8,675.43	8,668.97	-777.32	8,703.75	354.88	397,738.67	821,219.39	
21,377.00	93.00	359.30	12,420.39	8,769.30	8,762.84	-779.20	8,797.41	354.92	397,832.54	821,217.51	
21,471.00	94.20	359.80	12,414.49	8,863.12	8,856.65	-779.94	8,890.92	354.97	397,926.35	821,216.77	



ProDirectional Survey Report



Company: Marathon Oil
Project: Lea County, NM(NAD 83)
Site: Mammoth 1 TB Fed Com
Well: No. 1H
Wellbore: ST01
Design: MWD-14280'-22560', PTB: 22618'

Local Co-ordinate Reference: Well No. 1H
TVD Reference: Well @ 3306.00usft
MD Reference: Well @ 3306.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
21,566.00	93.30	0.20		12,408.28	8,957.91	8,951.44	-779.94	8,985.36	355.02	398,021.14	821,216.77
21,661.00	91.10	0.90		12,404.63	9,052.82	9,046.36	-779.03	9,079.84	355.08	398,116.06	821,217.68
21,755.00	88.70	1.40		12,404.79	9,146.77	9,140.34	-777.14	9,173.31	355.14	398,210.04	821,219.57
21,849.00	88.00	1.30		12,407.50	9,240.68	9,234.27	-774.93	9,266.73	355.20	398,303.97	821,221.78
21,944.00	89.50	1.70		12,409.57	9,335.60	9,329.21	-772.44	9,361.14	355.27	398,398.91	821,224.27
22,039.00	89.90	1.10		12,410.07	9,430.54	9,424.18	-770.12	9,455.60	355.33	398,493.88	821,226.59
22,133.00	90.20	0.20		12,409.99	9,524.52	9,518.17	-769.06	9,549.19	355.38	398,587.87	821,227.65
22,227.00	90.30	359.70		12,409.58	9,618.52	9,612.17	-769.14	9,642.90	355.43	398,681.87	821,227.57
22,322.00	91.60	359.60		12,408.00	9,713.50	9,707.16	-769.72	9,737.63	355.47	398,776.86	821,226.99
22,416.00	92.40	359.30		12,404.72	9,807.45	9,801.09	-770.62	9,831.34	355.50	398,870.79	821,226.09
22,511.00	93.90	359.70		12,399.50	9,902.30	9,895.94	-771.45	9,925.97	355.54	398,965.64	821,225.26
22,560.00	94.70	359.90		12,395.83	9,951.16	9,944.80	-771.62	9,974.69	355.56	399,014.50	821,225.09
Last Survey: 22560' MD											
22,618.00	94.70	359.90		12,391.08	10,008.96	10,002.61	-771.72	10,032.34	355.59	399,072.31	821,224.99
PTB: 22618' MD											

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
14,280.00	12,504.83	1,677.29	-712.11	Pro MWD First ST01 Survey: 14280' MD
22,560.00	12,395.83	9,944.80	-771.62	Last Survey: 22560' MD
22,618.00	12,391.08	10,002.61	-771.72	PTB: 22618' MD

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-46127
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Mammoth 1 TB Fed Com
8. Well Number 2H
9. OGRID Number 372098
10. Pool name or Wildcat Hardin Tank; Wolfcamp & Harding Tank; Bone Spring

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator Marathon Oil Permian LLC	
3. Address of Operator 990 Town & Country Blvd. Houston, TX 77024	
4. Well Location Unit Letter <u>N</u> : <u>448</u> feet from the <u>South</u> line and <u>1509</u> feet from the <u>West</u> line Section <u>1</u> Township <u>26S</u> Range <u>34E</u> NMPM County <u>Lea</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3281' GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK ☐	REMEDIAL WORK ☐
TEMPORARILY ABANDON ☐	ALTERING CASING ☐
PULL OR ALTER CASING ☐	COMMENCE DRILLING OPNS. ☐
DOWNHOLE COMMINGLE ☐	P AND A ☐
CLOSED-LOOP SYSTEM ☐	CASING/CEMENT JOB ☐
OTHER: ☐	OTHER: Completions ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

7/4/2022 - Start frac prep operations
 7/8/2022 - MIRU.
 7/9/2022 - Pressure test production casing to 13,185 psi for 30 min, held, good test.
 7/13/2022 - Start frac stages 1-36 with 2 shorts per foot for a total of 864 shots, 0.41" in size using 22,423,055 lbs of proppant, 122 bbls of 15% HCl Acid, and 424,509 bbls of brackish water. Total interval from 13568' to 22514'.
 7/25/2022 - Finish frac operations.
 7/27/2022 - Rig down.
 8/29/2022 - Well completed, ready to produce. Start flowback and turn well to production.

Marathon Oil Permian LLC would like to request a tubing exception for this well.

Spud Date:

10/16/2019

Rig Release Date:

3/12/2020

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

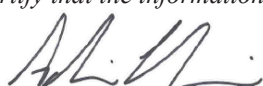
SIGNATURE Adrian Covarrubias TITLE Regulatory Compliance Representative DATE 9/26/2022

Type or print name Adrian Covarrubias E-mail address: acovarrubias@marathonoil.com PHONE: 713-296-3368

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any): _____

Submit To Appropriate District Office Two Copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505				Form C-105 Revised April 3, 2017				
1. WELL API NO. 30-025-46127										
2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN										
3. State Oil & Gas Lease No.										
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Mammoth 1 TB Federal Com				
						6. Well Number: 1H				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Marathon Oil Permian LLC						9. OGRID 372098				
10. Address of Operator 990 Town & Country Blvd. Houston, TX 77024						11. Pool name or Wildcat Hardin Tank; Wolfcamp & Hardin Tank; Bone Spring				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	N	1	26S	34E		448	S	1509	W	LEA
BH:	D	36	25S	34E		101	N	825	W	LEA
13. Date Spudded 10/16/2019	14. Date T.D. Reached 3/9/2020		15. Date Rig Released 3/12/2020		16. Date Completed (Ready to Produce) 8/29/2022			17. Elevations (DF and RKB, RT, GR, etc.) 3281 GR		
18. Total Measured Depth of Well 22618'			19. Plug Back Measured Depth 22601'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 13568' - 14912'; Bone Spring 14912' - 15309'; Wolfcamp 15309' - 22514'; Bone Spring										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		54.5#, J55, STC		1188'		17-1/2"		1155		
7-5/8"		29.7#, P110, BTC		11851'		9-7/8"		2135		
5-1/2"		23#, P110, TLW		22607'		6-3/4"		1745		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET			
26. Perforation record (interval, size, and number) 13568' - 22514'; 0.41", 864 shots						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						13568' - 22514'		22,423,055 lbs proppant		
						13568' - 22514'		3,843 gal 15% HCl Acid		
						13568' - 22514'		17,829,378 gal brackish water		
28. PRODUCTION										
Date First Production 8/29/2022		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 9/16/2022	Hours Tested 24	Choke Size 32/64	Prod'n For Test Period	Oil - Bbl 1850	Gas - MCF 2203	Water - Bbl. 4769	Gas - Oil Ratio			
Flow Tubing Press.	Casing Pressure 2590	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						30. Test Witnessed By				
31. List Attachments										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.						33. Rig Release Date:				
34. If an on-site burial was used at the well, report the exact location of the on-site burial:										
			Latitude			Longitude			NAD83	
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature			Printed Name			Title			Date	
			Adrian Covarrubias			Regulatory Compliance Rep			9/26/2022	
E-mail Address acovarrubias@marathonoil.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon 5438'	T. Ojo Alamo	T. Penn A"
T. Salt	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 5128'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Ellenburger	Base Greenhorn	T. Granite
T. Blinebry	T. Gr. Wash	T. Dakota	
T. Tubb	T. Delaware Sand	T. Morrison	
T. Drinkard	T. Bone Springs 9386'	T. Todilto	
T. Abo	T. Castile 3633'	T. Entrada	
T. Wolfcamp 14934'	T. Lamar 5407'	T. Wingate	
T. Penn	T.	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

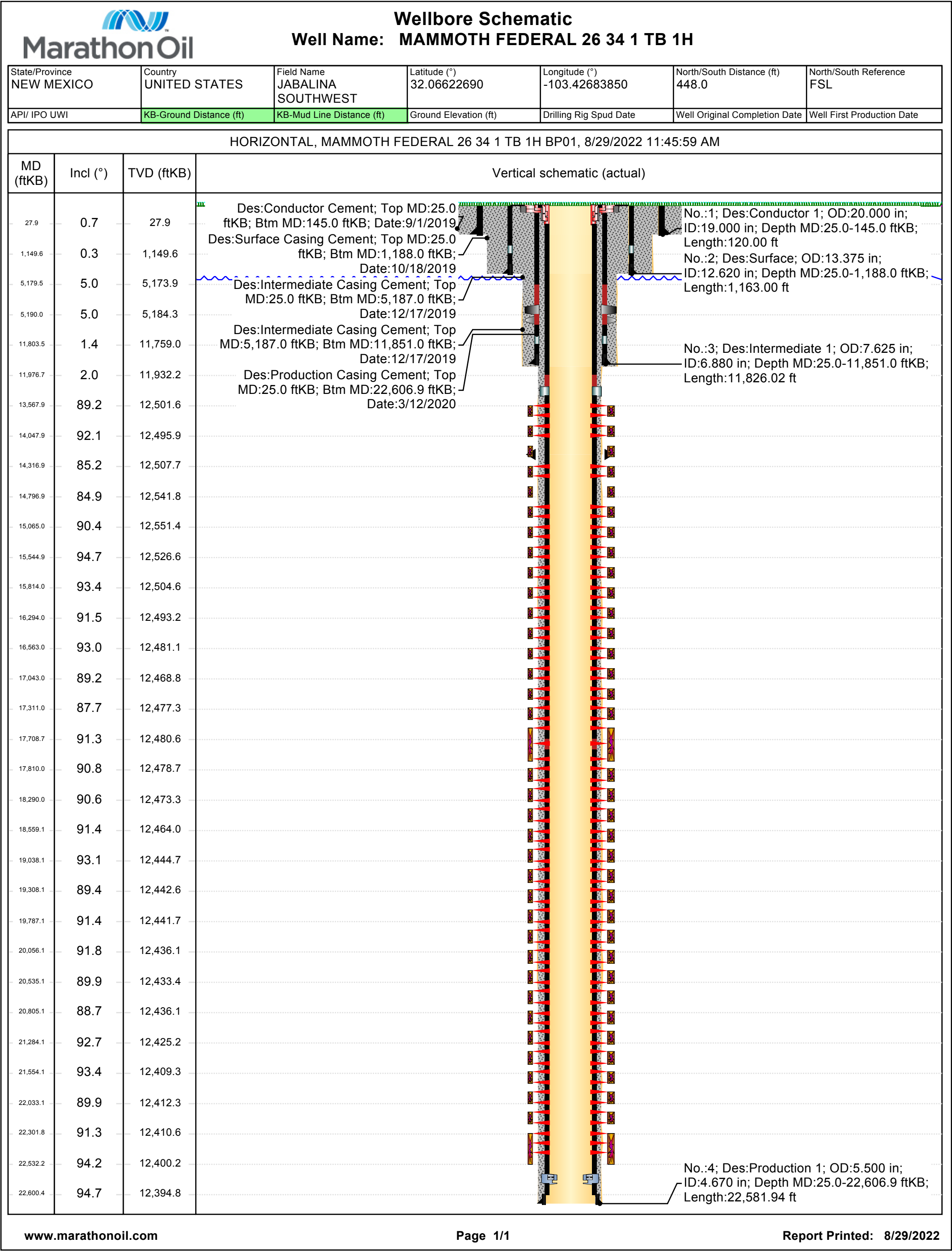
No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology



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
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 146265

ACKNOWLEDGMENTS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 146265
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 146265

CONDITIONS

Operator: MARATHON OIL PERMIAN LLC 990 Town & Country Blvd. Houston, TX 77024	OGRID: 372098
	Action Number: 146265
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File 3160-4 Completion Report within 10 days to NMOCD after BLM approval.	9/12/2023