

Submit 1 Copy To Appropriate District
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. **IMMEDIATE CONSERVATION**
Santa Fe, NM 87505

WELL API NO.
30-015-44619

5. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name
STERLING STATE 23 27 20 TB

8. Well Number 004H

9. OGRID Number 372098

10. Pool name or Wildcat
CARLSBAD; BONESPRING, SOUTH

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 5555 SAN FELIPE ST. HOUSTON, TX 77057

4. Well Location

Unit Letter O : 603 feet from the SOUTH line and 1462 feet from the EAST line
Section Township Range NMPM County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3181' GL

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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.

MARATHON OIL PERMIAN LLC REQUESTS APPROVAL FOR THE FOLLOWING CHANGES TO THE STERLING STATE 23 27 20 TB 004H:

FIRST TAKE POINT IS MOVING FROM 330' FSL & 2306' FEL TO 330' FSL & 988' FEL. PLEASE SEE ATTACHED C-102 AND DIRECTIONAL PLAN.

Spud Date:

Rig Release Date:

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

SIGNATURE Jennifer Van Curen TITLE Sr. Regulatory Compliance DATE 1/18/18

Type or print name Jennifer Van Curen E-mail address: jvancuren@marathonoil.com PHONE: 713-296-2500

For State Use Only

APPROVED BY: Raymond R. Polansky TITLE Geologist DATE 1-19-2018
Conditions of Approval (if any):

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

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

JAN 19 2018

WELL LOCATION AND ACREAGE DEDICATION PLAT

RECEIVED

¹ API Number 30-015-44619	² Pool Code 9670	³ Pool Name CARLSBAD; BONE SPRING, SOUTH
⁴ Property Code	⁵ Property Name STERLING STATE 23-27-20 TB	⁶ Well Number 4H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3181'

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
0	20	23S	27E		603	SOUTH	1462	EAST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	20	23S	27E		330	NORTH	2315	EAST	EDDY

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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.

SECTION 18	SECTION 17	SECTION 16
SECTION 19	SECTION 20	SECTION 21
LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 2315' FEL SECTION 20 NAD 83, SPCS NM EAST X:579121.14' / Y:471679.90' LAT:32.29666237N / LON:104.21105059W NAD 27, SPCS NM EAST X:537939.00' / Y:471621.19' LAT:32.2965435N / LON:104.21055059W LAST TAKE POINT/BHL 330' 330' 160.00 ACRE PRODUCING AREA FIRST TAKE POINT 330' FSL 2306' FEL SECTION 20 NAD 83, SPCS NM EAST X:579142.40' / Y:467046.34' LAT:32.28392525N / LON:104.21099891W NAD 27, SPCS NM EAST X:537960.17' / Y:466987.76' LAT:32.28380631N / LON:104.21049928W SURFACE HOLE LOCATION 603' FSL 1462' FEL SECTION 20 NAD 83, SPCS NM EAST X:579984.87' / Y:467313.53' LAT:32.28465704N / LON:104.20827171W NAD 27, SPCS NM EAST X:538082.63' / Y:467254.93' LAT:32.28453807N / LON:104.20777217W FIRST TAKE POINT 1462' 2306' 2304' SECTION 19 SECTION 20 CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 578769.62' / Y: 472010.44' B - X: 580112.37' / Y: 472008.28' C - X: 580131.35' / Y: 466709.49' D - X: 578813.90' / Y: 466718.51' CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 537607.50' / Y: 471951.73' B - X: 538930.22' / Y: 471949.56' C - X: 538949.09' / Y: 466650.90' D - X: 537631.66' / Y: 466660.04'		
17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Jennifer Van Curen</i> 1/18/18 Signature Date Jennifer Van Curen Printed Name jvancuren@marathonoil.com E-mail Address 18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. JANUARY 18, 2018 Date of Survey <i>Lloyd P. Short</i> Signature and Seal of Professional Surveyor LLOYD P. SHORT NEW MEXICO 21653 PROFESSIONAL SURVEYOR Certificate Number LLOYD P. SHORT 21653		
SECTION 19	SECTION 20	SECTION 21
SECTION 30	SECTION 29	SECTION 28

Topographic map of the Sterling State 23-27-20 area. The map shows three tracts of land, each owned by Marathon Oil Permian LLC:

- STERLING STATE 23-27-20 TB #4H LAST TAKE/BHL MARATHON OIL PERMIAN LLC** (Top center)
- STERLING STATE 23-27-20 TB #4H SHL MARATHON OIL PERMIAN LLC** (Bottom center)
- STERLING STATE 23-27-20 TB #4H PI MARATHON OIL PERMIAN LLC** (Bottom center)
- STERLING STATE 23-27-20 TB #4H FIRST TAKE MARATHON OIL PERMIAN LLC** (Right side)

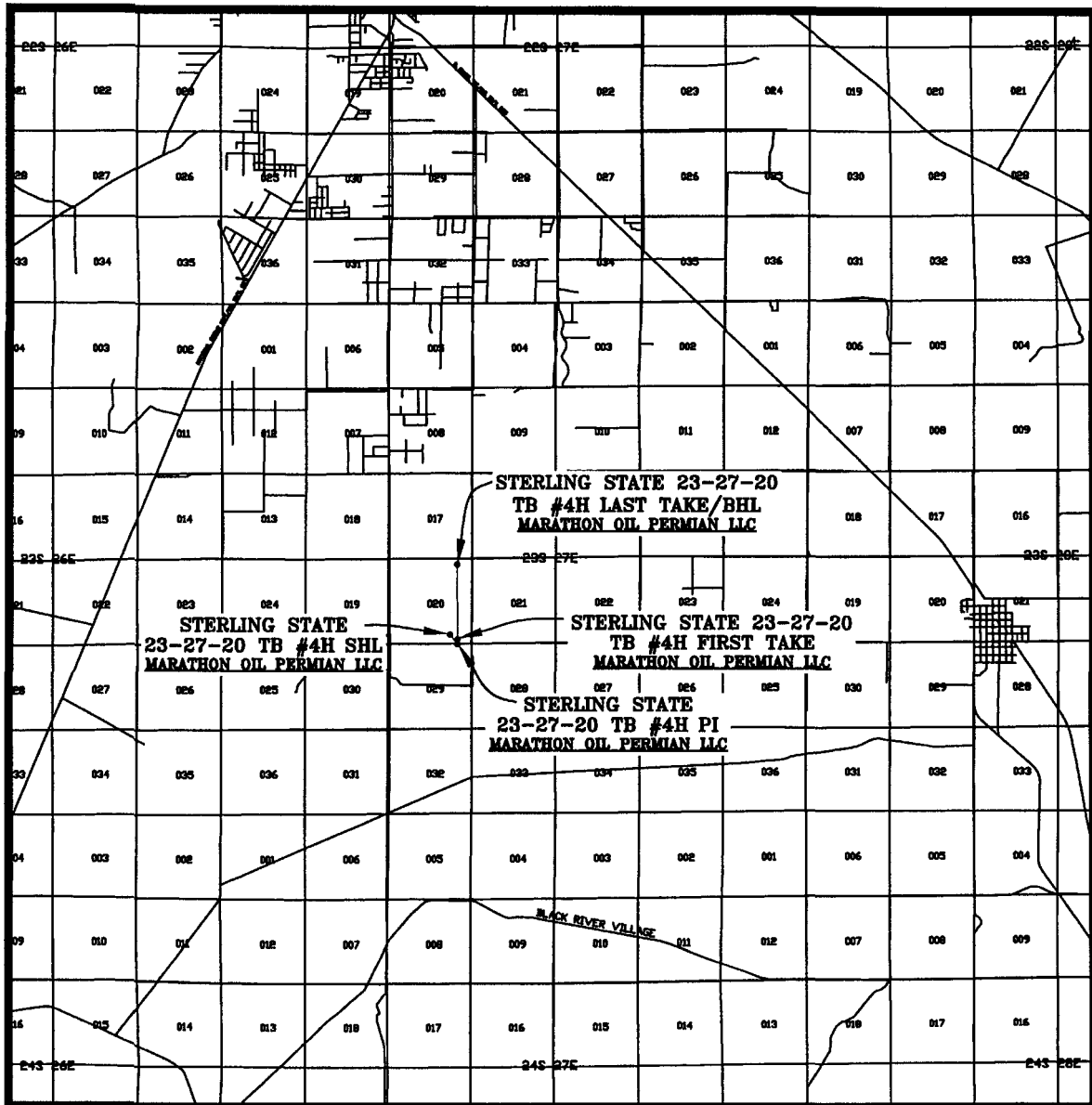
Other features and labels on the map include:

- LEVEE** (Top center)
- DAM** (Top center and right side)
- SPWY 3170** (Top center)
- Cass** (Bottom left)
- 3170** (Top center)
- 3173** (Top center)
- 3174** (Right side)
- 3175** (Bottom center)
- 3176T** (Center)
- 3177T** (Bottom center)
- 3178T** (Bottom center)
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- 3297T** (Bottom center)
- 3298T** (Bottom center)
- 3299T** (Bottom center)
- 3300T** (Bottom center)

SCALE: 1" = 2000'
CONTOUR INTERVAL = 5'

PREPARED BY:
R-SQUARED GLOBAL, LLC
1309 LOUISVILLE AVENUE, MONROE, LA 71201
318-323-0900 OFFICE
JOB No. R3771.005

VICINITY MAP



SEC. 20 TWP. 23-S RGE. 27-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 DESCRIPTION: 603' FSL & 1462' FEL
 ELEVATION: 3181'
 OPERATOR: MARATHON OIL PERMIAN LLC
 LEASE: STERLING STATE 23-27-20
 U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

SCALE: 1" = 2 MILES

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3771_005

EDDY COUNTY, NM (NAD27)
STERLING STATE 25-27-20
TB #4H
PLAN #1
PRECISION 594

WELL DETAIL:

GROUND LEVEL: 3181.00
EASTING: 538802.63 32° 17' 4.337 N10L 12° 27' 980 W
NORTHING: 467254.93
+N/-S 0.00 +E/-W 0.00

SECTION DETAILS

NO	INC	ALL	TVD	+N/-S	+E/-W	DIFG	TRACE	VSSECT	TARGET
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
53	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
76	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
91	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

DESIGN TARGET DETAILS

NAME	STATION	TVD	+N/-S	+E/-W	NORTHING	EASTING
BH[SS/TB4H]	8877.00	8877.00	4384.48	465.80	471619.02	538261.39

GL ELEV.: 3181.00
DEPTH REF: XB = 25' @ 4206.00USFT (PRECISION 594)

DRILLING TARGET: 8877' @ OVS // 89.5° INC.

TARGET WINDOW: 10' UP / 10' DOWN

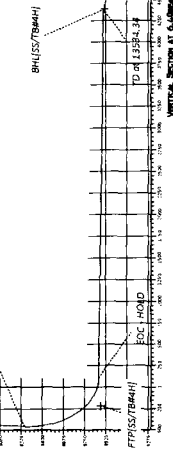
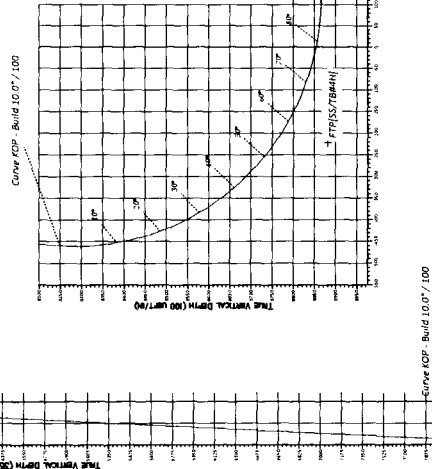
SITE DETAILS: STERLING STATE 25-27-20
SITE CENTRE NORTHING: 467254.93
EASTING: 538802.63
POSITIONAL UNCERTAINTY: 0.00
CONVERGENCE: 0.07
LOCAL NORTH: GRID

PROJECT DETAILS: EDDY COUNTY, NM (NAD27)
GEOMETRIC SYSTEM: UG STATE PLANE 1927 (EXACT SOLUTION)
DATUM: NAD 1927 (NADCON CONUS)
ELLIPSOID: CLARE 1866
ZONE: NEW MEXICO EAST 3001
SYSTEM DATUM: MEAN SEA LEVEL

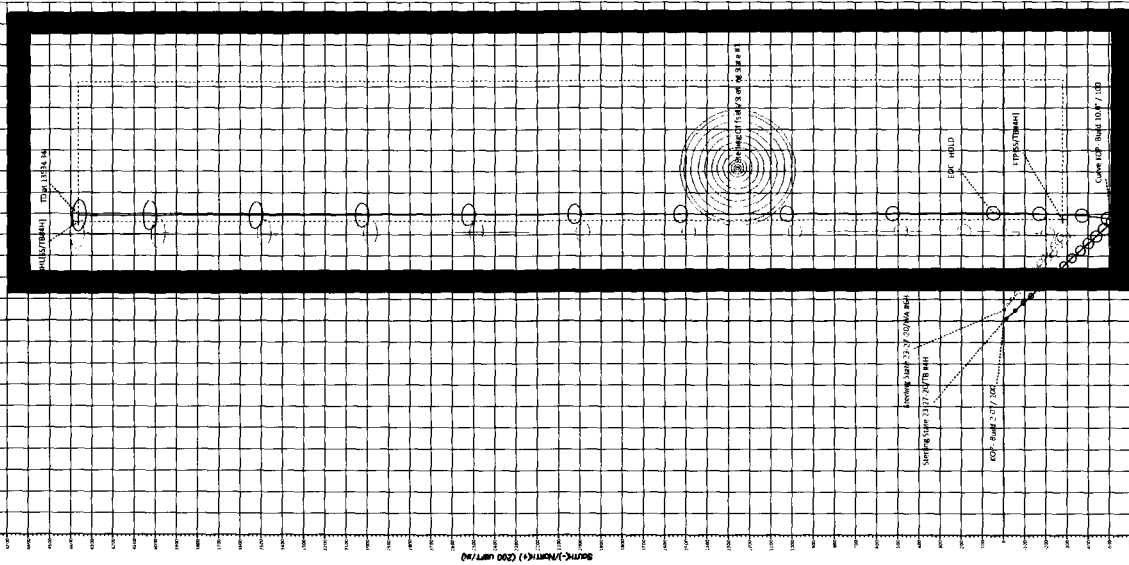
FORMATION TOP DETAILS
NO FORMATION DATA IS AVAILABLE

WELL NAME: 8877
DATE: 10/27/2018
ELEVATION: 3181.00
ZONE NAME: NEW MEXICO EAST 3001
LOCAL ORIGIN: WELL TB 84H, SPD N89W
LATITUDE: 32° 17' 4.337 N
LONGITUDE: 106° 12' 2' 980 W
GRID EAST: 538802.63
GRID NORTH: 467254.93
SCALE FACTOR: 1.000
DEFORMATION: NO
MAGNETIC DECLINATION: 2.35°
DIP ANGLE FROM HORIZONTAL: 89.53°
MAGNETIC FIELD STRENGTH: 48.5 uT
TO CORRECT MAGNETIC NORTH TO GRID, ADD 2.35°
TO CORRECT MAGNETIC NORTH TO TRUE, ADD 2.35°
TO CORRECT TRUE NORTH TO GRID, SUBTRACT 2.07°

NM OIL CONSERVATION
ARTESIA DISTRICT
JAN 19 2018
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Scientific Drilling



NM OIL CONSERVATION

ARTESIA DISTRICT

JAN 19 2018

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Marathon Oil Permian, LLC

Eddy County, NM (NAD27)

Sterling State 23-27-20

TB #4H

OH

Plan: Plan #1

Standard Planning Report

18 January, 2018



www.scientificdrilling.com

Planning Report

Database:	Midland District	Local Horizontal Reference:	Well TB #4H
Company:	Marathon Oil Permian, LLC	Min. Precision:	KB = 25' @ 3206.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	Min. Elevation:	KB = 25' @ 3206.00usft (Precision 594)
Site:	Sterling State 23-27-20	North Reference:	Grid
Well:	TB #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project:	Eddy County, NM (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		Using geodetic scale factor

Site:	Sterling State 23-27-20				
Site Position:		Northing:	467,254.93 usft	Latitude:	32° 17' 4.337 N
From:	Map	Easting:	538,802.63 usft	Longitude:	104° 12' 27.980 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07

Well:	TB #4H					
Well Position	+N-S	0.00 usft	Northing:	467,254.93 usft	Latitude:	32° 17' 4.337 N
	+E-W	0.00 usft	Easting:	538,802.63 usft	Longitude:	104° 12' 27.980 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,181.00 usft

Wellbore:	OH				
Magnetic:	Model Name	Survey Date	Declination (°)	DB Angle (°)	Field Strength (G)
	HDGM	1/18/2018	7.38	60.03	48,018

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	WOB (usft)	LEAN (usft)	Direction (bearing)
	0.00	0.00	0.00	6.00

Plan Section:										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	WOB (usft)	PLAN (usft)	Depth Rate (ft/100usft)	Build Rate (ft/100usft)	Turn Rate (ft/100usft)	T/O (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,792.50	5.85	140.00	1,791.99	-11.43	9.59	2.00	2.00	0.00	140.00	
8,295.20	5.85	140.00	8,260.82	-519.15	435.62	0.00	0.00	0.00	0.00	
9,235.12	89.50	359.80	8,877.32	47.19	473.74	10.00	8.90	-14.92	-140.08	
13,552.59	89.50	359.80	8,915.00	4,364.48	458.80	0.00	0.00	0.00	0.00	BHL[SS/TB#4H]

Planning Report

Database	Midland District	Local Coordinates Reference	Well TB #4H
Company	Marathon Oil Permian, LLC	SVC Reference	KB = 25' @ 3206.00usft (Precision 594)
Project	Eddy County, NM (NAD27)	MD Reference	KB = 25' @ 3206.00usft (Precision 594)
Site	Sterling State 23-27-20	North Reference	Grid
Well	TB #4H	Survey Calculated Method	Minimum Curvature
Wellbore	OH		
Design	Plan #1		

Planned Survey										
Station	Depth	Interval	Depth	Interval	Depth	Interval	Depth	Interval	Depth	Interval
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP - Build 2.0° / 100										
1,600.00	2.00	140.00	1,599.98	-1.34	1.12	-1.21	2.00	2.00	0.00	0.00
1,700.00	4.00	140.00	1,699.84	-5.35	4.49	-4.85	2.00	2.00	0.00	0.00
1,792.50	5.85	140.00	1,791.99	-11.43	9.59	-10.36	2.00	2.00	0.00	0.00
EOB - HOLD										
1,800.00	5.85	140.00	1,799.45	-12.01	10.08	-10.89	0.00	0.00	0.00	0.00
1,900.00	5.85	140.00	1,898.93	-19.82	16.63	-17.97	0.00	0.00	0.00	0.00
2,000.00	5.85	140.00	1,998.41	-27.63	23.18	-25.06	0.00	0.00	0.00	0.00
2,100.00	5.85	140.00	2,097.89	-35.44	29.74	-32.14	0.00	0.00	0.00	0.00
2,200.00	5.85	140.00	2,197.37	-43.25	36.29	-39.22	0.00	0.00	0.00	0.00
2,300.00	5.85	140.00	2,296.85	-51.05	42.84	-46.30	0.00	0.00	0.00	0.00
2,400.00	5.85	140.00	2,396.33	-58.86	49.39	-53.38	0.00	0.00	0.00	0.00
2,500.00	5.85	140.00	2,495.81	-66.67	55.94	-60.46	0.00	0.00	0.00	0.00
2,600.00	5.85	140.00	2,595.29	-74.48	62.49	-67.54	0.00	0.00	0.00	0.00
2,700.00	5.85	140.00	2,694.77	-82.29	69.05	-74.62	0.00	0.00	0.00	0.00
2,800.00	5.85	140.00	2,794.25	-90.09	75.60	-81.70	0.00	0.00	0.00	0.00
2,900.00	5.85	140.00	2,893.72	-97.90	82.15	-88.78	0.00	0.00	0.00	0.00
3,000.00	5.85	140.00	2,993.20	-105.71	88.70	-95.86	0.00	0.00	0.00	0.00
3,100.00	5.85	140.00	3,092.68	-113.52	95.25	-102.94	0.00	0.00	0.00	0.00
3,200.00	5.85	140.00	3,192.16	-121.32	101.80	-110.02	0.00	0.00	0.00	0.00
3,300.00	5.85	140.00	3,291.64	-129.13	108.36	-117.10	0.00	0.00	0.00	0.00
3,400.00	5.85	140.00	3,391.12	-136.94	114.91	-124.18	0.00	0.00	0.00	0.00
3,500.00	5.85	140.00	3,490.60	-144.75	121.46	-131.26	0.00	0.00	0.00	0.00
3,600.00	5.85	140.00	3,590.08	-152.56	128.01	-138.34	0.00	0.00	0.00	0.00
3,700.00	5.85	140.00	3,689.56	-160.36	134.56	-145.42	0.00	0.00	0.00	0.00
3,800.00	5.85	140.00	3,789.04	-168.17	141.11	-152.50	0.00	0.00	0.00	0.00
3,900.00	5.85	140.00	3,888.52	-175.98	147.66	-159.58	0.00	0.00	0.00	0.00
4,000.00	5.85	140.00	3,988.00	-183.79	154.22	-166.66	0.00	0.00	0.00	0.00
4,100.00	5.85	140.00	4,087.48	-191.60	160.77	-173.74	0.00	0.00	0.00	0.00
4,200.00	5.85	140.00	4,186.95	-199.40	167.32	-180.82	0.00	0.00	0.00	0.00
4,300.00	5.85	140.00	4,286.43	-207.21	173.87	-187.90	0.00	0.00	0.00	0.00
4,400.00	5.85	140.00	4,385.91	-215.02	180.42	-194.98	0.00	0.00	0.00	0.00
4,500.00	5.85	140.00	4,485.39	-222.83	186.97	-202.06	0.00	0.00	0.00	0.00
4,600.00	5.85	140.00	4,584.87	-230.63	193.53	-209.14	0.00	0.00	0.00	0.00
4,700.00	5.85	140.00	4,684.35	-238.44	200.08	-216.22	0.00	0.00	0.00	0.00
4,800.00	5.85	140.00	4,783.83	-246.25	206.63	-223.30	0.00	0.00	0.00	0.00
4,900.00	5.85	140.00	4,883.31	-254.06	213.18	-230.38	0.00	0.00	0.00	0.00
5,000.00	5.85	140.00	4,982.79	-261.87	219.73	-237.46	0.00	0.00	0.00	0.00

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well TB #4H
Company:	Marathon Oil Permian, LLC	NAD Reference:	KB = 25' @ 3206.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	NAD Reference:	KB = 25' @ 3206.00usft (Precision 594)
Plan:	Sterling State 23-27-20	NAD Reference:	Grid
Well:	TB #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	True North (usft)	True East (usft)	Vertical Angle (usft)	Depth Rate (1/100usft)	Build Rate (1/100usft)	Turn Rate (1/100usft)
5,100.00	5.85	140.00	5,082.27	-269.67	226.28	-244.54	0.00	0.00	0.00
5,200.00	5.85	140.00	5,181.75	-277.48	232.84	-251.62	0.00	0.00	0.00
5,300.00	5.85	140.00	5,281.23	-285.29	239.39	-258.70	0.00	0.00	0.00
5,400.00	5.85	140.00	5,380.70	-293.10	245.94	-265.78	0.00	0.00	0.00
5,500.00	5.85	140.00	5,480.18	-300.91	252.49	-272.86	0.00	0.00	0.00
5,600.00	5.85	140.00	5,579.66	-308.71	259.04	-279.94	0.00	0.00	0.00
5,700.00	5.85	140.00	5,679.14	-316.52	265.59	-287.02	0.00	0.00	0.00
5,800.00	5.85	140.00	5,778.62	-324.33	272.14	-294.10	0.00	0.00	0.00
5,900.00	5.85	140.00	5,878.10	-332.14	278.70	-301.18	0.00	0.00	0.00
6,000.00	5.85	140.00	5,977.58	-339.94	285.25	-308.26	0.00	0.00	0.00
6,100.00	5.85	140.00	6,077.06	-347.75	291.80	-315.34	0.00	0.00	0.00
6,200.00	5.85	140.00	6,176.54	-355.56	298.35	-322.42	0.00	0.00	0.00
6,300.00	5.85	140.00	6,276.02	-363.37	304.90	-329.50	0.00	0.00	0.00
6,400.00	5.85	140.00	6,375.50	-371.18	311.45	-336.58	0.00	0.00	0.00
6,500.00	5.85	140.00	6,474.98	-378.98	318.01	-343.66	0.00	0.00	0.00
6,600.00	5.85	140.00	6,574.46	-386.79	324.56	-350.74	0.00	0.00	0.00
6,700.00	5.85	140.00	6,673.93	-394.60	331.11	-357.82	0.00	0.00	0.00
6,800.00	5.85	140.00	6,773.41	-402.41	337.66	-364.90	0.00	0.00	0.00
6,900.00	5.85	140.00	6,872.89	-410.22	344.21	-371.98	0.00	0.00	0.00
7,000.00	5.85	140.00	6,972.37	-418.02	350.76	-379.06	0.00	0.00	0.00
7,100.00	5.85	140.00	7,071.85	-425.83	357.32	-386.14	0.00	0.00	0.00
7,200.00	5.85	140.00	7,171.33	-433.64	363.87	-393.22	0.00	0.00	0.00
7,300.00	5.85	140.00	7,270.81	-441.45	370.42	-400.30	0.00	0.00	0.00
7,400.00	5.85	140.00	7,370.29	-449.26	376.97	-407.38	0.00	0.00	0.00
7,500.00	5.85	140.00	7,469.77	-457.06	383.52	-414.46	0.00	0.00	0.00
7,600.00	5.85	140.00	7,569.25	-464.87	390.07	-421.54	0.00	0.00	0.00
7,700.00	5.85	140.00	7,668.73	-472.68	396.62	-428.62	0.00	0.00	0.00
7,800.00	5.85	140.00	7,768.21	-480.49	403.18	-435.70	0.00	0.00	0.00
7,900.00	5.85	140.00	7,867.69	-488.29	409.73	-442.78	0.00	0.00	0.00
8,000.00	5.85	140.00	7,967.16	-496.10	416.28	-449.86	0.00	0.00	0.00
8,100.00	5.85	140.00	8,066.64	-503.91	422.83	-456.94	0.00	0.00	0.00
8,200.00	5.85	140.00	8,166.12	-511.72	429.38	-464.02	0.00	0.00	0.00
8,295.20	5.85	140.00	8,260.82	-519.15	435.62	-470.76	0.00	0.00	0.00
Curve KOP - Build 10.0° / 100									
8,300.00	5.49	136.78	8,265.60	-519.51	435.93	-471.08	10.00	-7.49	-67.10
8,350.00	3.88	75.01	8,315.46	-520.81	439.21	-472.04	10.00	-3.23	-123.53
8,400.00	7.06	31.72	8,365.25	-517.76	442.46	-468.66	10.00	6.37	-86.59
8,450.00	11.60	18.39	8,414.58	-510.37	445.66	-460.98	10.00	9.08	-26.66
8,500.00	16.41	12.63	8,463.08	-498.70	448.79	-449.05	10.00	9.62	-11.52
8,550.00	21.30	9.44	8,510.38	-482.84	451.83	-432.95	10.00	9.79	-6.37
8,600.00	26.24	7.41	8,556.13	-462.90	454.75	-412.83	10.00	9.87	-4.07
8,650.00	31.19	5.98	8,599.97	-439.05	457.52	-388.81	10.00	9.91	-2.85
8,700.00	36.16	4.92	8,641.57	-411.46	460.14	-361.10	10.00	9.93	-2.14
8,750.00	41.13	4.07	8,680.61	-380.35	462.57	-329.90	10.00	9.94	-1.68
8,800.00	46.11	3.38	8,716.79	-345.94	464.81	-295.45	10.00	9.95	-1.38
8,850.00	51.09	2.80	8,749.85	-308.50	466.82	-258.01	10.00	9.96	-1.16
8,900.00	56.07	2.30	8,779.53	-268.32	468.60	-217.86	10.00	9.97	-1.01
8,946.83	60.74	1.87	8,804.06	-228.47	470.05	-178.08	10.00	9.97	-0.90
FTP[SS/TB#4H]									
8,950.00	61.06	1.85	8,805.60	-225.70	470.14	-175.31	10.00	9.97	-0.86
9,000.00	66.04	1.44	8,827.86	-180.97	471.42	-130.69	10.00	9.97	-0.82
9,050.00	71.03	1.06	8,846.15	-134.46	472.43	-84.33	10.00	9.98	-0.76
9,100.00	76.02	0.70	8,860.33	-86.54	473.17	-36.59	10.00	9.98	-0.71
9,150.00	81.01	0.36	8,870.29	-37.55	473.62	12.17	10.00	9.98	-0.68

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well TB #4H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB = 25' @ 3206.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	MD Reference:	KB = 25' @ 3206.00usft (Precision 594)
Site:	Sterling State 23-27-20	North Reference:	Grid
Well:	TB #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (USF)	Inclination (°)	Assumed (borehole)	Vertical Depth (USF)	W-C (USF)	E-W (USF)	Vertical Section (USF)	Depth Rate (ft/100usft)	Build Rate (ft/100usft)	Turn Rate (ft/100usft)
9,200.00	86.00	0.03	8,875.94	12.11	473.79	61.57	10.00	9.98	-0.66
9,235.12	89.50	359.80	8,877.32	47.19	473.74	96.46	10.00	9.98	-0.66
EOC - HOLD									
9,300.00	89.50	359.80	8,877.89	112.07	473.52	160.96	0.00	0.00	0.00
9,400.00	89.50	359.80	8,878.76	212.07	473.17	260.37	0.00	0.00	0.00
9,500.00	89.50	359.80	8,879.64	312.06	472.83	359.79	0.00	0.00	0.00
9,600.00	89.50	359.80	8,880.51	412.06	472.48	459.20	0.00	0.00	0.00
9,700.00	89.50	359.80	8,881.38	512.05	472.13	558.61	0.00	0.00	0.00
9,800.00	89.50	359.80	8,882.25	612.05	471.79	658.02	0.00	0.00	0.00
9,900.00	89.50	359.80	8,883.13	712.05	471.44	757.43	0.00	0.00	0.00
10,000.00	89.50	359.80	8,884.00	812.04	471.10	856.84	0.00	0.00	0.00
10,100.00	89.50	359.80	8,884.87	912.04	470.75	956.25	0.00	0.00	0.00
10,200.00	89.50	359.80	8,885.74	1,012.03	470.40	1,055.67	0.00	0.00	0.00
10,300.00	89.50	359.80	8,886.62	1,112.03	470.06	1,155.08	0.00	0.00	0.00
10,400.00	89.50	359.80	8,887.49	1,212.02	469.71	1,254.49	0.00	0.00	0.00
10,500.00	89.50	359.80	8,888.36	1,312.02	469.36	1,353.90	0.00	0.00	0.00
10,600.00	89.50	359.80	8,889.23	1,412.01	469.02	1,453.31	0.00	0.00	0.00
10,700.00	89.50	359.80	8,890.11	1,512.01	468.67	1,552.72	0.00	0.00	0.00
10,800.00	89.50	359.80	8,890.98	1,612.01	468.33	1,652.13	0.00	0.00	0.00
10,900.00	89.50	359.80	8,891.85	1,712.00	467.98	1,751.55	0.00	0.00	0.00
11,000.00	89.50	359.80	8,892.72	1,812.00	467.63	1,850.96	0.00	0.00	0.00
11,100.00	89.50	359.80	8,893.60	1,911.99	467.29	1,950.37	0.00	0.00	0.00
11,200.00	89.50	359.80	8,894.47	2,011.99	466.94	2,049.78	0.00	0.00	0.00
11,300.00	89.50	359.80	8,895.34	2,111.98	466.60	2,149.19	0.00	0.00	0.00
11,400.00	89.50	359.80	8,896.22	2,211.98	466.25	2,248.60	0.00	0.00	0.00
11,500.00	89.50	359.80	8,897.09	2,311.98	465.90	2,348.01	0.00	0.00	0.00
11,600.00	89.50	359.80	8,897.96	2,411.97	465.56	2,447.43	0.00	0.00	0.00
11,700.00	89.50	359.80	8,898.83	2,511.97	465.21	2,546.84	0.00	0.00	0.00
11,800.00	89.50	359.80	8,899.71	2,611.96	464.87	2,646.25	0.00	0.00	0.00
11,900.00	89.50	359.80	8,900.58	2,711.96	464.52	2,745.66	0.00	0.00	0.00
12,000.00	89.50	359.80	8,901.45	2,811.95	464.17	2,845.07	0.00	0.00	0.00
12,100.00	89.50	359.80	8,902.32	2,911.95	463.83	2,944.48	0.00	0.00	0.00
12,200.00	89.50	359.80	8,903.20	3,011.94	463.48	3,043.89	0.00	0.00	0.00
12,300.00	89.50	359.80	8,904.07	3,111.94	463.14	3,143.31	0.00	0.00	0.00
12,400.00	89.50	359.80	8,904.94	3,211.94	462.79	3,242.72	0.00	0.00	0.00
12,500.00	89.50	359.80	8,905.81	3,311.93	462.44	3,342.13	0.00	0.00	0.00
12,600.00	89.50	359.80	8,906.69	3,411.93	462.10	3,441.54	0.00	0.00	0.00
12,700.00	89.50	359.80	8,907.56	3,511.92	461.75	3,540.95	0.00	0.00	0.00
12,800.00	89.50	359.80	8,908.43	3,611.92	461.41	3,640.36	0.00	0.00	0.00
12,900.00	89.50	359.80	8,909.31	3,711.91	461.06	3,739.77	0.00	0.00	0.00
13,000.00	89.50	359.80	8,910.18	3,811.91	460.71	3,839.19	0.00	0.00	0.00
13,100.00	89.50	359.80	8,911.05	3,911.90	460.37	3,938.60	0.00	0.00	0.00
13,200.00	89.50	359.80	8,911.92	4,011.90	460.02	4,038.01	0.00	0.00	0.00
13,300.00	89.50	359.80	8,912.80	4,111.90	459.68	4,137.42	0.00	0.00	0.00
13,400.00	89.50	359.80	8,913.67	4,211.89	459.33	4,236.83	0.00	0.00	0.00
13,500.00	89.50	359.80	8,914.54	4,311.89	458.98	4,336.24	0.00	0.00	0.00
13,552.59	89.50	359.80	8,915.00	4,364.48	458.80	4,388.53	0.00	0.00	0.00
TD at 13552.59 - BHL[SS/TB#4H]									

Planning Report

Database:	Midland District	Local Co-ordinate Reference:	Well TB #4H
Company:	Marathon Oil Permian, LLC	TVD Reference:	KB = 25' @ 3206.00usft (Precision 594)
Project:	Eddy County, NM (NAD27)	MD (ft) (usft):	KB = 25' @ 3206.00usft (Precision 594)
Site:	Sterling State 23-27-20	North Reference:	Grid
Well:	TB #4H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Data									
Target Name	Horizontal Dip	Horizontal Angle	TVD	N/E/S	N/E/W	Longitude	Latitude	Method	Longitude
Shut	(ft)	(bearing)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP[SS/TB#4H]	0.00	0.01	8,882.00	-276.34	475.33	466,978.61	539,277.92	32° 17' 1.597 N	104° 12' 22.447 W
- plan misses target center by 91.62usft at 8946.83usft MD (8804.05 TVD, -228.47 N, 470.05 E)									
- Point									
BHL[SS/TB#4H]	0.00	0.01	8,915.00	4,364.48	458.80	471,619.02	539,261.39	32° 17' 47.520 N	104° 12' 22.575 W
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comments
(usft)	(usft)	N/E/S	N/E/W	
1,500.00	1,500.00	0.00	0.00	KOP - Build 2.0° / 100
1,792.50	1,791.99	-11.43	9.59	EOB - HOLD
8,295.20	8,260.82	-519.15	435.62	Curve KOP - Build 10.0° / 100
9,235.12	8,877.32	47.19	473.74	EOC - HOLD
13,552.59	8,915.00	4,364.48	458.80	TD at 13552.59