

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. Francis Dr.
Santa Fe, NM 87505

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.)		WELL API NO. 30-015-44692
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐ ARTESIA DISTRICT		5. Indicate Type of Lease STATE ☐ FEE ☒
2. Name of Operator Marathon Oil Permian LLC		6. State Oil & Gas Lease No.
3. Address of Operator 5555 San Felipe St., Houston, TX 77056		7. Lease Name or Unit Agreement Name CATAPULT FEE 23 26 1 WXY
4. Well Location Unit Letter <u>O</u> : <u>337</u> feet from the <u>SOUTH</u> line and <u>1447</u> feet from the <u>EAST</u> line Section <u>36</u> Township <u>22S</u> Range <u>26E</u> NMPM County <u>EDDY</u>		8. Well Number <u>3H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3217' GR		9. OGRID Number 372098
		10. Pool name or Wildcat PURPLE SAGE; WOLFCAMP (GAS)

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: ☐
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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 to change the following items to this well:

Change BHL of well:
From 330' FSL & 1669' FEL of Section 1
To 330' FSL & 1349' FEL of Section 1

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 Adrian Covarrubias TITLE CTR - Technician HES DATE 11/1/2018

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

For State Use Only

APPROVED BY: Raymond J. Rodas TITLE Geologist DATE 11-6-18
Conditions of Approval (if any):

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
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District III
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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-441692	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code 320795	⁵ Property Name CATAPULT FEE 23-26-1 WXY	⁶ Well Number 3H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3217'

¹⁰ Surface Location

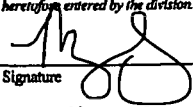
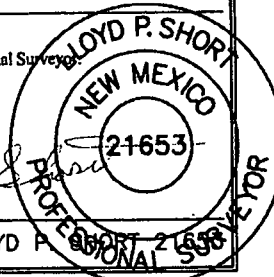
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	36	T22S	R26E		337	SOUTH	1447	EAST	EDDY

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
0	1	T23S	R26E		330	SOUTH	1349	EAST	EDDY

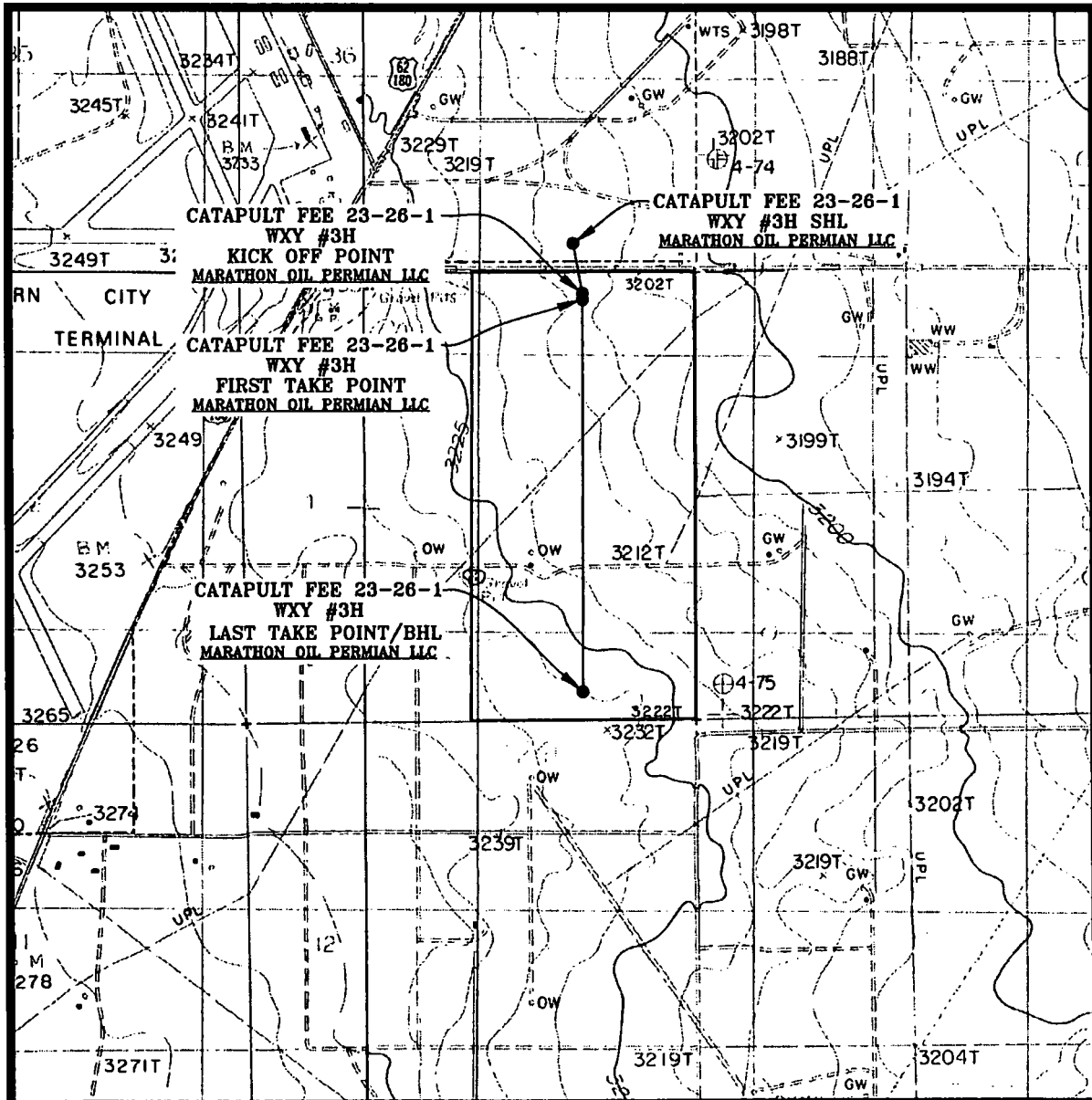
¹² Dedicated Acres 320.36	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SECTION 35 SECTION 36 T-22-S SECTION 2 SECTION 1 T-23-S SURFACE HOLE LOCATION 337' FSL 1447' FEL, SECTION 36 NAD 83, SPCS NM EAST X:569435.11' / Y:488179.22' LAT:32.34204320N / LON:104.24235300W NAD 27, SPCS NM EAST X:528253.43' / Y:488120.20' LAT:32.34192502N / LON:104.24185058W KICK OFF POINT 255' FNL 1337' FEL, SECTION 1 NAD 83, SPCS NM EAST X:569544.13' / Y:487587.20' LAT:32.34041556N / LON:104.24200187W NAD 27, SPCS NM EAST X:528362.44' / Y:487528.19' LAT:32.34029737N / LON:104.24149927W FIRST TAKE POINT 330' FNL 1338' FEL, SECTION 1 NAD 83, SPCS NM EAST X:569543.96' / Y:487512.20' LAT:32.34020940N / LON:104.24200241W NAD 27, SPCS NM EAST X:528362.27' / Y:487453.19' LAT:32.34009121N / LON:104.24150002W LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FSL 1349' FEL, SECTION 1 NAD 83, SPCS NM EAST X:569533.83' / Y:482872.69' LAT:32.32745609N / LON:104.24204801W NAD 27, SPCS NM EAST X:528352.05' / Y:482813.81' LAT:32.3273783N / LON:104.24154597V CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 568227.81' / Y: 487840.96' B - X: 570881.56' / Y: 487843.47' C - X: 570883.00' / Y: 482551.56' D - X: 568203.23' / Y: 482533.94'		" 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 11/01/2018 Printed Name Melissa Szudera E-mail Address "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. OCTOBER 30, 2018 Date of Survey Signature and Seal of Professional Surveyor  Certificate Number LLOYD P. SHORT 21653	
SECTION 2 SECTION 11 SECTION 12 SECTION 6 SECTION 7 SHL 337' KOP 255' 1447' 1317' 1337' 1318' 1338' FIRST TAKE 1329' 1349' LAST TAKE/BHL 330'		5 10/24/2018 ANC REV. DATE BY	

RWP 11-6-18

LOCATION VERIFICATION MAP

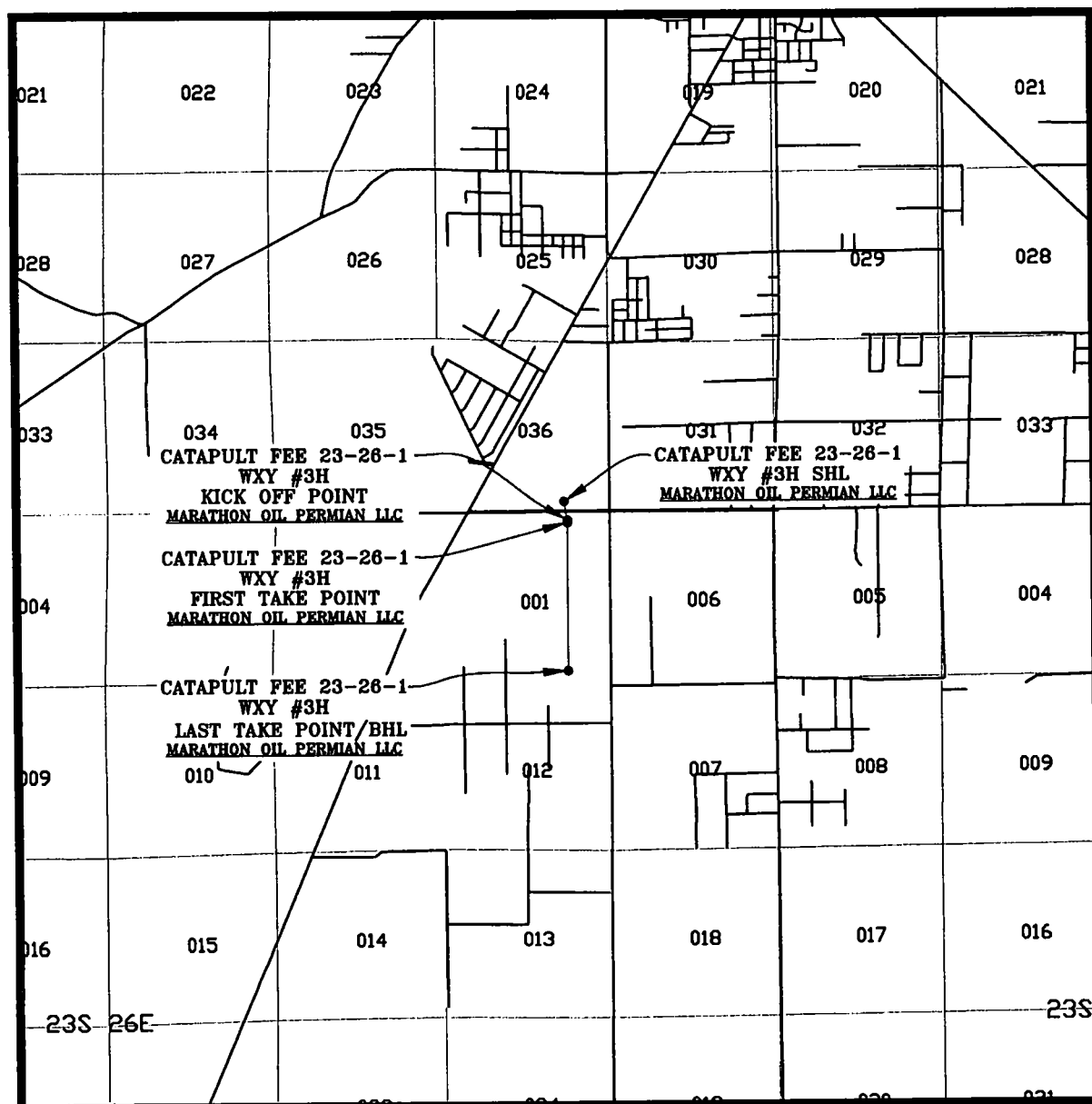


SEC. 1 TWP. 23-S RGE. 26-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 DESCRIPTION: 337' FSL & 1447' FEL
 ELEVATION: 3217'
 OPERATOR: MARATHON OIL PERMIAN LLC
 LEASE: CATAPULT FEE 23-26-1
 U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

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

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-8900 OFFICE
 JOB No. R3798_002

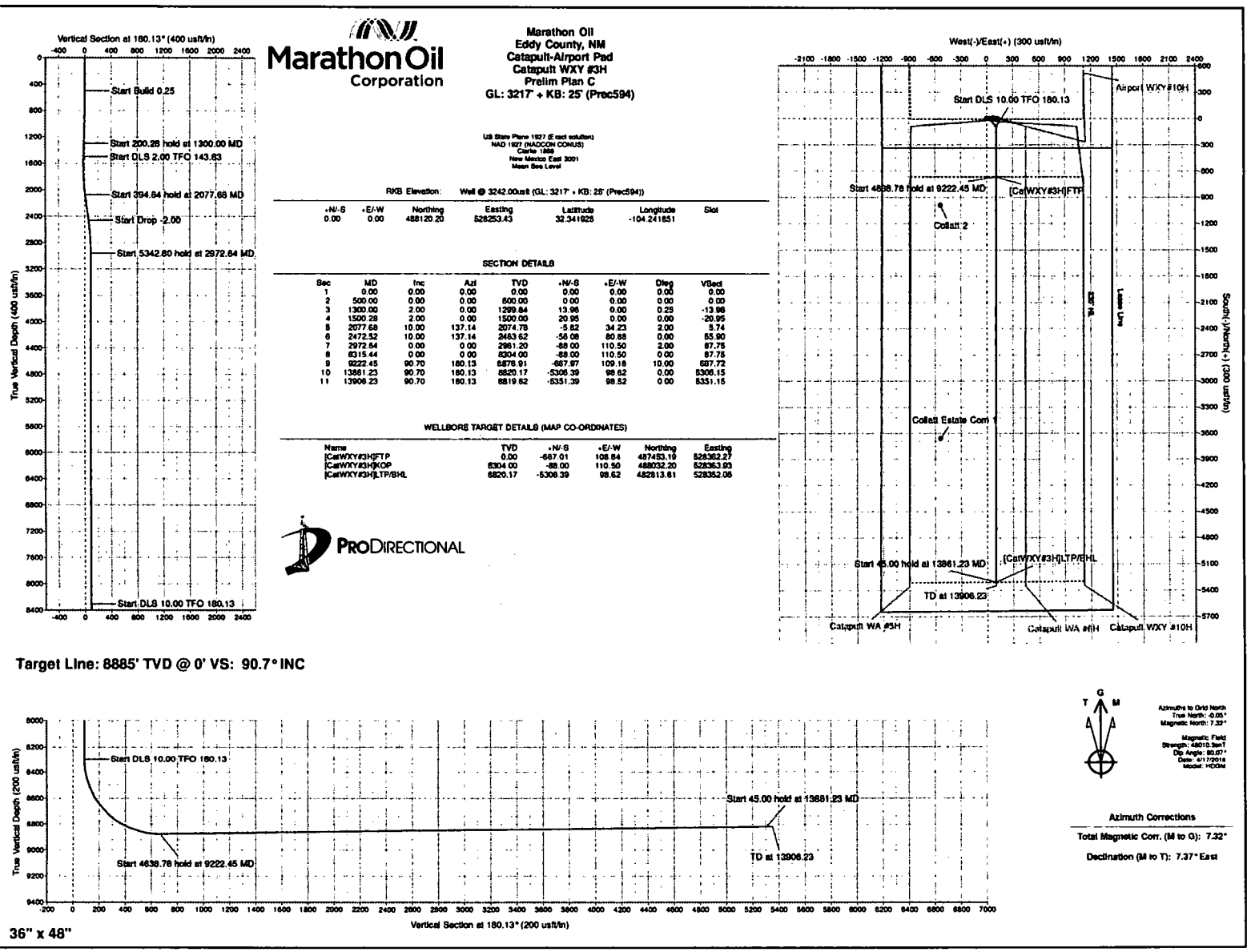
VICINITY MAP



SEC. 1 TWP. 23-S RGE. 26-E
 SURVEY: N.M.P.M.
 COUNTY: EDDY
 DESCRIPTION: 337' FSL & 1447' FEL
 ELEVATION: 3217'
 OPERATOR: MARATHON OIL PERMIAN LLC
 LEASE: CATAPULT FEE 23-26-1
 U.S.G.S. TOPOGRAPHIC MAP: OTIS, N.M.

SCALE: 1" = 1 MILE

PREPARED BY:
 R-SQUARED GLOBAL, LLC
 1309 LOUISVILLE AVENUE, MONROE, LA 71201
 318-323-6900 OFFICE
 JOB No. R3798_002



Company:	Marathon Oil	Local Co-ordinate Reference:	Well Catapult WXY #3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Site:	Catapult-Airport Pad	MD Reference:	Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
Well:	Catapult WXY #3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan C	Database:	WellPlanner1

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

Site	Catapult-Airport Pad
Site Position:	
From:	Map
Position Uncertainty:	0.00 usft
Northing:	488,120.19 usft
Easting:	528,313.43 usft
Slot Radius:	13-3/16 "
Latitude:	32.341925
Longitude:	-104.241657
Grid Convergence:	0.05 °

Well	Catapult WXY #3H
Well Position	
+N/-S	0.00 usft
+E/-W	0.00 usft
Position Uncertainty	0.00 usft
Northing:	488,120.20 usft
Easting:	528,253.43 usft
Wellhead Elevation:	usft
Latitude:	32.341925
Longitude:	-104.241851
Ground Level:	3,217.00 usft

Wellbore	OH
Magnetics	
Model Name	HDGM
Sample Date	4/17/2018
Declination (°)	7.37
Dip Angle (°)	60.07
Field Strength (nT)	48,010.30

Design	Prelim Plan C
Audit Notes:	
Version:	Phase: PLAN
Vertical Section:	Tie On Depth: 0.00
Depth From (TVD) (usft)	
+N/-S (usft)	0.00
+E/-W (usft)	0.00
Direction (°)	180.13

Survey Tool Program	Date	10/30/2018
From (usft)	To (usft)	Survey (Wellbore)
0.00	1,150.00	Prelim Plan C (OH)
1,150.00	5,400.00	Prelim Plan C (OH)
5,400.00	10,000.00	Prelim Plan C (OH)
10,000.00	13,906.23	Prelim Plan C (OH)
Tool Name	Description	
MWD+IFR1	OWSG MWD + IFR1	
MWD+IFR1	OWSG MWD + IFR1	
MWD+IFR1	OWSG MWD + IFR1	
MWD+IFR1	OWSG MWD + IFR1	

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[CatWXY#3H]FTP									
100.00	0.00	0.00	100.00	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
300.00	0.00	0.00	300.00	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

Company: Marathon Oil
Project: Eddy County, NM
Site: Catapult-Airport Pad
Well: Catapult WXY #3H
Wellbore: OH
Design: Prelim Plan C

Local Co-ordinate Reference: Well Catapult WXY #3H
TVD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
MD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.25	0.00	600.00	0.22	0.00	-0.22	0.25	0.25	0.00
700.00	0.50	0.00	700.00	0.87	0.00	-0.87	0.25	0.25	0.00
800.00	0.75	0.00	799.99	1.96	0.00	-1.96	0.25	0.25	0.00
900.00	1.00	0.00	899.98	3.49	0.00	-3.49	0.25	0.25	0.00
1,000.00	1.25	0.00	999.96	5.45	0.00	-5.45	0.25	0.25	0.00
1,100.00	1.50	0.00	1,099.93	7.85	0.00	-7.85	0.25	0.25	0.00
1,200.00	1.75	0.00	1,199.89	10.69	0.00	-10.69	0.25	0.25	0.00
1,300.00	2.00	0.00	1,299.84	13.96	0.00	-13.96	0.25	0.25	0.00
1,400.00	2.00	0.00	1,399.78	17.45	0.00	-17.45	0.00	0.00	0.00
1,500.28	2.00	0.00	1,500.00	20.95	0.00	-20.95	0.00	0.00	0.00
1,600.00	1.24	71.67	1,599.68	23.03	1.02	-23.03	2.00	-0.76	71.88
1,700.00	2.66	117.48	1,699.63	22.30	4.11	-22.31	2.00	1.42	45.80
1,800.00	4.54	128.79	1,799.43	18.76	9.25	-18.78	2.00	1.88	11.31
1,900.00	6.49	133.41	1,898.96	12.40	16.43	-12.43	2.00	1.95	4.61
2,000.00	8.46	135.88	1,998.11	3.23	25.66	-3.29	2.00	1.97	2.48
2,077.68	10.00	137.14	2,074.78	-5.82	34.23	5.74	2.00	1.98	1.61
2,100.00	10.00	137.14	2,096.76	-8.66	36.86	8.58	0.00	0.00	0.00
2,200.00	10.00	137.14	2,195.24	-21.39	48.68	21.28	0.00	0.00	0.00
2,300.00	10.00	137.14	2,293.72	-34.12	60.50	33.98	0.00	0.00	0.00
2,400.00	10.00	137.14	2,392.20	-46.85	72.31	46.69	0.00	0.00	0.00
2,472.52	10.00	137.14	2,463.62	-56.08	80.88	55.90	0.00	0.00	0.00
2,500.00	9.45	137.14	2,490.70	-59.49	84.04	59.30	2.00	-2.00	0.00
2,600.00	7.45	137.14	2,589.61	-70.26	94.04	70.05	2.00	-2.00	0.00
2,700.00	5.45	137.14	2,688.97	-78.50	101.68	78.27	2.00	-2.00	0.00
2,800.00	3.45	137.14	2,788.67	-84.19	106.96	83.95	2.00	-2.00	0.00
2,900.00	1.45	137.14	2,888.57	-87.33	109.87	87.08	2.00	-2.00	0.00
2,972.64	0.00	0.00	2,961.20	-88.00	110.50	87.75	2.00	-2.00	0.00
3,000.00	0.00	0.00	2,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,100.00	0.00	0.00	3,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,200.00	0.00	0.00	3,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,300.00	0.00	0.00	3,288.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,400.00	0.00	0.00	3,388.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,500.00	0.00	0.00	3,488.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,600.00	0.00	0.00	3,588.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,700.00	0.00	0.00	3,688.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,800.00	0.00	0.00	3,788.56	-88.00	110.50	87.75	0.00	0.00	0.00
3,900.00	0.00	0.00	3,888.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,000.00	0.00	0.00	3,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,100.00	0.00	0.00	4,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,200.00	0.00	0.00	4,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,300.00	0.00	0.00	4,288.56	-88.00	110.50	87.75	0.00	0.00	0.00

Company: Marathon Oil
Project: Eddy County, NM
Site: Catapult-Airport Pad
Well: Catapult WXY #3H
Wellbore: OH
Design: Prelim Plan C

Local Co-ordinate Reference: Well Catapult WXY #3H
TVD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
MD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,400.00	0.00	0.00	4,388.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,500.00	0.00	0.00	4,488.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,600.00	0.00	0.00	4,588.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,700.00	0.00	0.00	4,688.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,800.00	0.00	0.00	4,788.56	-88.00	110.50	87.75	0.00	0.00	0.00
4,900.00	0.00	0.00	4,888.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,000.00	0.00	0.00	4,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,100.00	0.00	0.00	5,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,200.00	0.00	0.00	5,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,300.00	0.00	0.00	5,288.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,400.00	0.00	0.00	5,388.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,500.00	0.00	0.00	5,488.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,600.00	0.00	0.00	5,588.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,700.00	0.00	0.00	5,688.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,800.00	0.00	0.00	5,788.56	-88.00	110.50	87.75	0.00	0.00	0.00
5,900.00	0.00	0.00	5,888.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,000.00	0.00	0.00	5,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,100.00	0.00	0.00	6,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,200.00	0.00	0.00	6,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,300.00	0.00	0.00	6,288.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,400.00	0.00	0.00	6,388.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,500.00	0.00	0.00	6,488.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,600.00	0.00	0.00	6,588.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,700.00	0.00	0.00	6,688.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,800.00	0.00	0.00	6,788.56	-88.00	110.50	87.75	0.00	0.00	0.00
6,900.00	0.00	0.00	6,888.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,000.00	0.00	0.00	6,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,100.00	0.00	0.00	7,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,200.00	0.00	0.00	7,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,300.00	0.00	0.00	7,288.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,400.00	0.00	0.00	7,388.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,500.00	0.00	0.00	7,488.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,600.00	0.00	0.00	7,588.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,700.00	0.00	0.00	7,688.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,800.00	0.00	0.00	7,788.56	-88.00	110.50	87.75	0.00	0.00	0.00
7,900.00	0.00	0.00	7,888.56	-88.00	110.50	87.75	0.00	0.00	0.00
8,000.00	0.00	0.00	7,988.56	-88.00	110.50	87.75	0.00	0.00	0.00
8,100.00	0.00	0.00	8,088.56	-88.00	110.50	87.75	0.00	0.00	0.00
8,200.00	0.00	0.00	8,188.56	-88.00	110.50	87.75	0.00	0.00	0.00
8,300.00	0.00	0.00	8,288.56	-88.00	110.50	87.75	0.00	0.00	0.00
8,315.44	0.00	0.00	8,304.00	-88.00	110.50	87.75	0.00	0.00	0.00

[CatWXY#3H]KOP

Company: Marathon Oil
Project: Eddy County, NM
Site: Catapult-Airport Pad
Well: Catapult WXY #3H
Wellbore: OH
Design: Prelim Plan C

Local Co-ordinate Reference: Well Catapult WXY #3H
TVD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
MD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,350.00	3.46	180.13	8,338.54	-89.04	110.50	88.79	10.00	10.00	0.00
8,400.00	8.46	180.13	8,388.25	-94.23	110.49	93.98	10.00	10.00	0.00
8,450.00	13.46	180.13	8,437.33	-103.73	110.46	103.48	10.00	10.00	0.00
8,500.00	18.46	180.13	8,485.39	-117.47	110.43	117.22	10.00	10.00	0.00
8,550.00	23.46	180.13	8,532.06	-135.35	110.39	135.10	10.00	10.00	0.00
8,600.00	28.46	180.13	8,577.01	-157.22	110.34	156.97	10.00	10.00	0.00
8,650.00	33.46	180.13	8,619.87	-182.93	110.28	182.68	10.00	10.00	0.00
8,700.00	38.46	180.13	8,660.33	-212.28	110.22	212.03	10.00	10.00	0.00
8,750.00	43.46	180.13	8,698.08	-245.05	110.14	244.80	10.00	10.00	0.00
8,800.00	48.46	180.13	8,732.83	-280.98	110.06	280.72	10.00	10.00	0.00
8,850.00	53.46	180.13	8,764.31	-319.80	109.97	319.55	10.00	10.00	0.00
8,900.00	58.46	180.13	8,792.30	-361.21	109.88	360.96	10.00	10.00	0.00
8,950.00	63.46	180.13	8,816.56	-404.91	109.78	404.66	10.00	10.00	0.00
9,000.00	68.46	180.13	8,836.93	-450.56	109.67	450.31	10.00	10.00	0.00
9,050.00	73.46	180.13	8,853.24	-497.81	109.57	497.56	10.00	10.00	0.00
9,100.00	78.46	180.13	8,865.37	-546.30	109.46	546.05	10.00	10.00	0.00
9,150.00	83.46	180.13	8,873.23	-595.66	109.34	595.41	10.00	10.00	0.00
9,200.00	88.46	180.13	8,876.75	-645.52	109.23	645.27	10.00	10.00	0.00
9,222.45	90.70	180.13	8,876.92	-667.97	109.18	667.72	10.00	10.00	0.00
9,300.00	90.70	180.13	8,875.97	-745.51	109.00	745.26	0.00	0.00	0.00
9,400.00	90.70	180.13	8,874.74	-845.50	108.78	845.25	0.00	0.00	0.00
9,500.00	90.70	180.13	8,873.52	-945.50	108.55	945.25	0.00	0.00	0.00
9,600.00	90.70	180.13	8,872.30	-1,045.49	108.32	1,045.24	0.00	0.00	0.00
9,700.00	90.70	180.13	8,871.07	-1,145.48	108.09	1,145.23	0.00	0.00	0.00
9,800.00	90.70	180.13	8,869.85	-1,245.47	107.86	1,245.22	0.00	0.00	0.00
9,900.00	90.70	180.13	8,868.63	-1,345.46	107.64	1,345.22	0.00	0.00	0.00
10,000.00	90.70	180.13	8,867.40	-1,445.46	107.41	1,445.21	0.00	0.00	0.00
10,100.00	90.70	180.13	8,866.18	-1,545.45	107.18	1,545.20	0.00	0.00	0.00
10,200.00	90.70	180.13	8,864.96	-1,645.44	106.95	1,645.19	0.00	0.00	0.00
10,300.00	90.70	180.13	8,863.73	-1,745.43	106.73	1,745.19	0.00	0.00	0.00
10,400.00	90.70	180.13	8,862.51	-1,845.43	106.50	1,845.18	0.00	0.00	0.00
10,500.00	90.70	180.13	8,861.29	-1,945.42	106.27	1,945.17	0.00	0.00	0.00
10,600.00	90.70	180.13	8,860.06	-2,045.41	106.04	2,045.16	0.00	0.00	0.00
10,700.00	90.70	180.13	8,858.84	-2,145.40	105.82	2,145.16	0.00	0.00	0.00
10,800.00	90.70	180.13	8,857.62	-2,245.39	105.59	2,245.15	0.00	0.00	0.00
10,900.00	90.70	180.13	8,856.39	-2,345.39	105.36	2,345.14	0.00	0.00	0.00
11,000.00	90.70	180.13	8,855.17	-2,445.38	105.13	2,445.13	0.00	0.00	0.00
11,100.00	90.70	180.13	8,853.95	-2,545.37	104.91	2,545.13	0.00	0.00	0.00
11,200.00	90.70	180.13	8,852.72	-2,645.36	104.68	2,645.12	0.00	0.00	0.00
11,300.00	90.70	180.13	8,851.50	-2,745.36	104.45	2,745.11	0.00	0.00	0.00
11,400.00	90.70	180.13	8,850.28	-2,845.35	104.22	2,845.10	0.00	0.00	0.00
11,500.00	90.70	180.13	8,849.05	-2,945.34	104.00	2,945.10	0.00	0.00	0.00

Company: Marathon Oil
Project: Eddy County, NM
Site: Catapult-Airport Pad
Well: Catapult WXY #3H
Wellbore: OH
Design: Prelim Plan C

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MD Reference: Well @ 3242.00usft (GL: 3217' + KB: 25' (Prec594))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	90.70	180.13	8,847.83	-3,045.33	103.77	3,045.09	0.00	0.00	0.00
11,700.00	90.70	180.13	8,846.61	-3,145.33	103.54	3,145.08	0.00	0.00	0.00
11,800.00	90.70	180.13	8,845.38	-3,245.32	103.31	3,245.07	0.00	0.00	0.00
11,900.00	90.70	180.13	8,844.16	-3,345.31	103.08	3,345.07	0.00	0.00	0.00
12,000.00	90.70	180.13	8,842.94	-3,445.30	102.86	3,445.06	0.00	0.00	0.00
12,100.00	90.70	180.13	8,841.71	-3,545.29	102.63	3,545.05	0.00	0.00	0.00
12,200.00	90.70	180.13	8,840.49	-3,645.29	102.40	3,645.04	0.00	0.00	0.00
12,300.00	90.70	180.13	8,839.27	-3,745.28	102.17	3,745.04	0.00	0.00	0.00
12,400.00	90.70	180.13	8,838.05	-3,845.27	101.95	3,845.03	0.00	0.00	0.00
12,500.00	90.70	180.13	8,836.82	-3,945.26	101.72	3,945.02	0.00	0.00	0.00
12,600.00	90.70	180.13	8,835.60	-4,045.26	101.49	4,045.01	0.00	0.00	0.00
12,700.00	90.70	180.13	8,834.38	-4,145.25	101.26	4,145.01	0.00	0.00	0.00
12,800.00	90.70	180.13	8,833.15	-4,245.24	101.04	4,245.00	0.00	0.00	0.00
12,900.00	90.70	180.13	8,831.93	-4,345.23	100.81	4,344.99	0.00	0.00	0.00
13,000.00	90.70	180.13	8,830.71	-4,445.22	100.58	4,444.98	0.00	0.00	0.00
13,100.00	90.70	180.13	8,829.48	-4,545.22	100.35	4,544.98	0.00	0.00	0.00
13,200.00	90.70	180.13	8,828.26	-4,645.21	100.13	4,644.97	0.00	0.00	0.00
13,300.00	90.70	180.13	8,827.04	-4,745.20	99.90	4,744.96	0.00	0.00	0.00
13,400.00	90.70	180.13	8,825.81	-4,845.19	99.67	4,844.95	0.00	0.00	0.00
13,500.00	90.70	180.13	8,824.59	-4,945.19	99.44	4,944.95	0.00	0.00	0.00
13,600.00	90.70	180.13	8,823.37	-5,045.18	99.21	5,044.94	0.00	0.00	0.00
13,700.00	90.70	180.13	8,822.14	-5,145.17	98.99	5,144.93	0.00	0.00	0.00
13,800.00	90.70	180.13	8,820.92	-5,245.16	98.76	5,244.93	0.00	0.00	0.00
13,861.23	90.70	180.13	8,820.17	-5,306.39	98.62	5,306.15	0.00	0.00	0.00
[CatWXY#3H]LTP/BHL									
13,906.23	90.70	180.13	8,819.62	-5,351.39	98.52	5,351.15	0.00	0.00	0.00

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[CatWXY#3H]FTP	0.00	0.00	0.00	-667.01	108.84	487,453.19	528,362.27	32.340091	-104.241500
- hit/miss target									
- Shape									
- plan misses target center by 675.83usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[CatWXY#3H]KOP	0.00	0.00	8,304.00	-88.00	110.50	488,032.20	528,363.93	32.341683	-104.241493
- plan hits target center									
- Point									
[CatWXY#3H]LTP/BHL	0.00	0.00	8,820.17	-5,306.39	98.62	482,813.81	528,352.05	32.327338	-104.241546
- plan hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____