

RECEIVED

JUN 28 2019

Form C-102

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 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

DISTRICT-ARTESIA/O.C.D.

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46144	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name ARES 7 WA FEE	⁶ Well Number 3H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3059'

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
D	18	23S	28E		451	NORTH	1000	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	7	23S	28E		330	NORTH	1255	WEST	EDDY

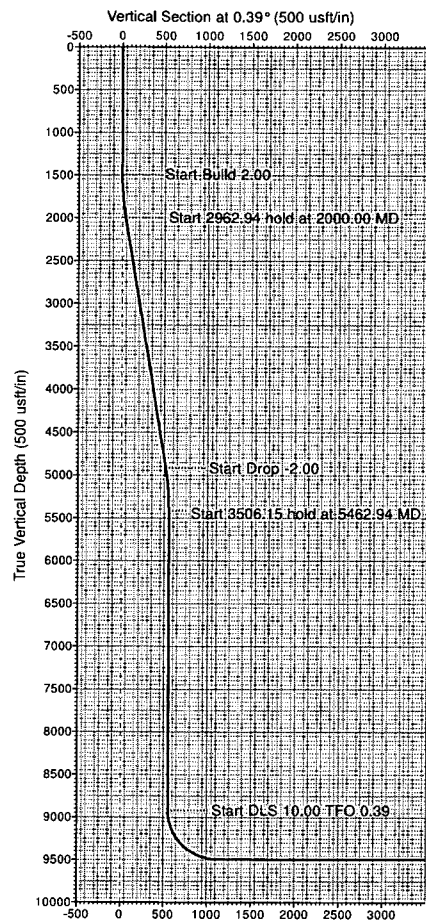
¹² Dedicated Acres 316.58	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 602604.61' / Y: 482813.81' B - X: 605208.57' / Y: 482843.89' C - X: 605148.50' / Y: 477508.83' D - X: 602586.62' / Y: 477508.93'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 561422.36' / Y: 482754.52' B - X: 564024.29' / Y: 482784.37' C - X: 563966.09' / Y: 477449.65' D - X: 561404.25' / Y: 477449.78'	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: <i>Adrian Covarrubias</i> Date: 6/27/2019 Printed Name: Adrian Covarrubias E-mail Address:	
	LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 1255' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 603858.73' / Y: 482498.19' LAT: 32.32629731N / LON: 104.13092426W NAD 27, SPCS NM EAST X: 562676.46' / Y: 482438.89' LAT: 32.32617746N / LON: 104.13042635W			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. JUNE 19, 2019 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i>
	FIRST TAKE POINT 330' FSL 1239' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 603826.88' / Y: 477838.88' LAT: 32.31348975N / LON: 104.13105585W NAD 27, SPCS NM EAST X: 562644.50' / Y: 477779.71' LAT: 32.31336982N / LON: 104.13055836W			Certificate Number LLOYD P. SHORT 21653
	KICK OFF POINT 100' FSL 1238' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 603825.31' / Y: 477608.88' LAT: 32.31285752N / LON: 104.13106235W NAD 27, SPCS NM EAST X: 562642.92' / Y: 477549.71' LAT: 32.31273758N / LON: 104.13056487W			
SURFACE HOLE LOCATION 451' FNL 1000' FWL, SECTION 18 NAD 83, SPCS NM EAST X: 603584.98' / Y: 477057.40' LAT: 32.31134283N / LON: 104.13184362W NAD 27, SPCS NM EAST X: 562402.59' / Y: 476998.25' LAT: 32.31122289N / LON: 104.13134616W				

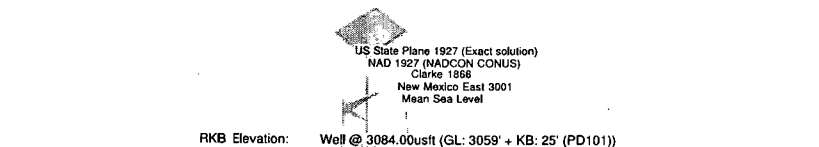
Distances/areas relative to NAD 83 Combined Scale Factor: 0.999913526 Convergence: 00°06'27.60027"

Rev 7-5-19



Marathon Oil Corporation

Marathon Oil
Eddy County, NM
Ares 7
WA No. 3H
Prelim Plan A
GL: 3059' + KB: 25' (PD101)



SECTION DETAILS

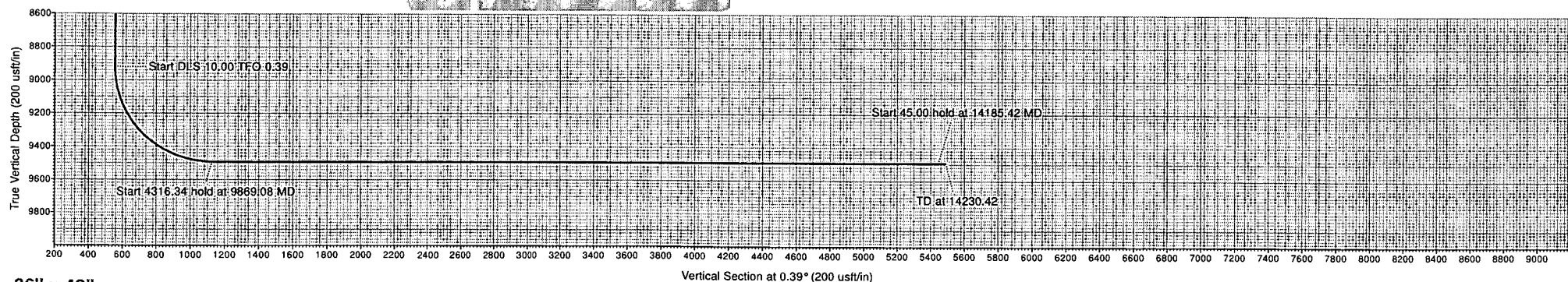
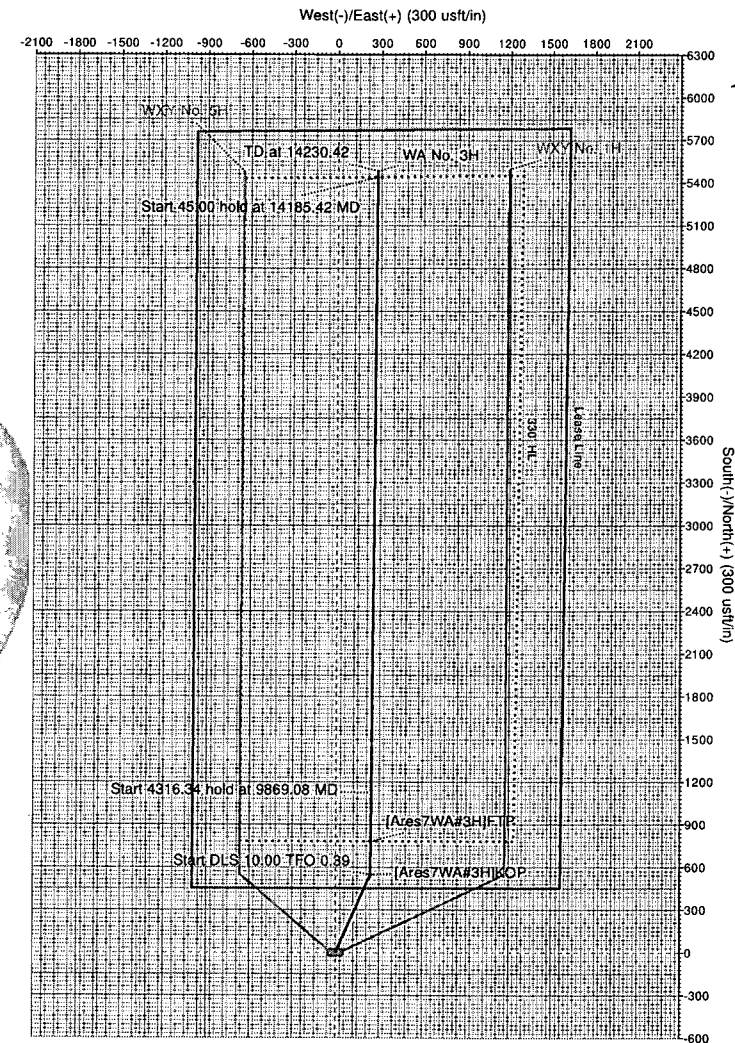
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00
3	2000.00	10.00	23.55	1997.47	39.90	17.39	2.00	40.02
4	4962.94	10.00	23.55	4915.39	511.56	222.94	0.00	513.07
5	5462.94	0.00	0.00	5412.85	551.46	240.33	2.00	553.08
6	8969.08	0.00	0.00	8919.00	551.46	240.33	0.00	553.08
7	9869.08	90.00	0.39	9491.96	1124.40	244.26	10.00	1126.04
8	14185.42	90.00	0.39	9492.00	5440.64	273.87	0.00	5442.38
9	14230.42	90.00	0.39	9492.00	5485.64	274.18	0.00	5487.38

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[Ares7WA#3H]FTP	0.00	781.46	241.91	477779.71	562644.50
[Ares7WA#3H]KOP	8919.00	551.46	240.33	477549.71	562642.92
[Ares7WA#3H]LTP/BHL	9492.00	5440.64	273.87	482438.89	562676.46



Azimuth Corrections
 Total Magnetic Corr. (M to G): 7.06°
 Declination (M to T): 7.17° East



36" x 48"

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Project:	Eddy County, NM		
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		

Site		Ares 7						
Site Position:		Northing:	476,998.27	usft	Latitude:	32.311223		
From:	Map	Easting:	562,432.60	usft	Longitude:	-104.131249		
Position Uncertainty:	0.00	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.11	°

Well	WA No. 3H					
Well Position	+N/-S	0.00 usft	Northing:	476,998.25 usft	Latitude:	32.311223
	+E/-W	0.00 usft	Easting:	562,402.59 usft	Longitude:	-104.131346
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,059.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/21/2019	7.17	60.03	47,892.40

Design					Prelim Plan A				
Audit Notes:									
Version:		Phase:		PLAN		Tie On Depth:		0.00	
Vertical Section:		Depth From (TVD)		+N/-S		+E/-W		Direction	
		(usft)		(usft)		(usft)		(°)	
		0.00		0.00		0.00		0.39	

Survey Tool Program		Date	6/21/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	14,230.42	Prelim Plan A (OH)	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
[Ares7WA#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
500.00	0.00	0.00	500.00	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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
800.00	0.00	0.00	800.00	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
1,000.00	0.00	0.00	1,000.00	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
1,200.00	0.00	0.00	1,200.00	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
1,400.00	0.00	0.00	1,400.00	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
1,600.00	2.00	23.55	1,599.98	1.60	0.70	1.60	2.00	2.00	0.00
1,700.00	4.00	23.55	1,699.84	6.40	2.79	6.42	2.00	2.00	0.00
1,800.00	6.00	23.55	1,799.45	14.39	6.27	14.43	2.00	2.00	0.00
1,900.00	8.00	23.55	1,898.70	25.56	11.14	25.63	2.00	2.00	0.00
2,000.00	10.00	23.55	1,997.47	39.90	17.39	40.02	2.00	2.00	0.00
2,100.00	10.00	23.55	2,095.95	55.82	24.33	55.98	0.00	0.00	0.00
2,200.00	10.00	23.55	2,194.43	71.74	31.26	71.95	0.00	0.00	0.00
2,300.00	10.00	23.55	2,292.91	87.65	38.20	87.91	0.00	0.00	0.00
2,400.00	10.00	23.55	2,391.39	103.57	45.14	103.88	0.00	0.00	0.00
2,500.00	10.00	23.55	2,489.87	119.49	52.08	119.84	0.00	0.00	0.00
2,600.00	10.00	23.55	2,588.35	135.41	59.01	135.81	0.00	0.00	0.00
2,700.00	10.00	23.55	2,686.83	151.33	65.95	151.78	0.00	0.00	0.00
2,800.00	10.00	23.55	2,785.31	167.25	72.89	167.74	0.00	0.00	0.00
2,900.00	10.00	23.55	2,883.79	183.17	79.83	183.71	0.00	0.00	0.00
3,000.00	10.00	23.55	2,982.27	199.09	86.76	199.67	0.00	0.00	0.00
3,100.00	10.00	23.55	3,080.75	215.00	93.70	215.64	0.00	0.00	0.00
3,200.00	10.00	23.55	3,179.23	230.92	100.64	231.60	0.00	0.00	0.00
3,300.00	10.00	23.55	3,277.72	246.84	107.58	247.57	0.00	0.00	0.00
3,400.00	10.00	23.55	3,376.20	262.76	114.51	263.53	0.00	0.00	0.00
3,500.00	10.00	23.55	3,474.68	278.68	121.45	279.50	0.00	0.00	0.00
3,600.00	10.00	23.55	3,573.16	294.60	128.39	295.47	0.00	0.00	0.00
3,700.00	10.00	23.55	3,671.64	310.52	135.33	311.43	0.00	0.00	0.00
3,800.00	10.00	23.55	3,770.12	326.44	142.26	327.40	0.00	0.00	0.00
3,900.00	10.00	23.55	3,868.60	342.36	149.20	343.36	0.00	0.00	0.00
4,000.00	10.00	23.55	3,967.08	358.27	156.14	359.33	0.00	0.00	0.00
4,100.00	10.00	23.55	4,065.56	374.19	163.08	375.29	0.00	0.00	0.00
4,200.00	10.00	23.55	4,164.04	390.11	170.01	391.26	0.00	0.00	0.00
4,300.00	10.00	23.55	4,262.52	406.03	176.95	407.23	0.00	0.00	0.00
4,400.00	10.00	23.55	4,361.00	421.95	183.89	423.19	0.00	0.00	0.00
4,500.00	10.00	23.55	4,459.48	437.87	190.83	439.16	0.00	0.00	0.00
4,600.00	10.00	23.55	4,557.97	453.79	197.76	455.12	0.00	0.00	0.00
4,700.00	10.00	23.55	4,656.45	469.71	204.70	471.09	0.00	0.00	0.00
4,800.00	10.00	23.55	4,754.93	485.62	211.64	487.05	0.00	0.00	0.00
4,900.00	10.00	23.55	4,853.41	501.54	218.58	503.02	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)	
4,962.94	10.00	23.55	4,915.39	511.56	222.94	513.07	0.00	0.00	0.00	
5,000.00	9.26	23.55	4,951.93	517.25	225.42	518.77	2.00	-2.00	0.00	
5,100.00	7.26	23.55	5,050.89	530.41	231.16	531.97	2.00	-2.00	0.00	
5,200.00	5.26	23.55	5,150.29	540.41	235.51	542.00	2.00	-2.00	0.00	
5,300.00	3.26	23.55	5,250.01	547.21	238.48	548.82	2.00	-2.00	0.00	
5,400.00	1.26	23.55	5,349.92	550.83	240.05	552.45	2.00	-2.00	0.00	
5,462.94	0.00	0.00	5,412.85	551.46	240.33	553.08	2.00	-2.00	0.00	
5,500.00	0.00	0.00	5,449.92	551.46	240.33	553.08	0.00	0.00	0.00	
5,600.00	0.00	0.00	5,549.92	551.46	240.33	553.08	0.00	0.00	0.00	
5,700.00	0.00	0.00	5,649.92	551.46	240.33	553.08	0.00	0.00	0.00	
5,800.00	0.00	0.00	5,749.92	551.46	240.33	553.08	0.00	0.00	0.00	
5,900.00	0.00	0.00	5,849.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,000.00	0.00	0.00	5,949.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,100.00	0.00	0.00	6,049.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,200.00	0.00	0.00	6,149.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,249.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,349.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,449.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,600.00	0.00	0.00	6,549.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,649.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,800.00	0.00	0.00	6,749.92	551.46	240.33	553.08	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,849.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,949.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,100.00	0.00	0.00	7,049.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,200.00	0.00	0.00	7,149.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,300.00	0.00	0.00	7,249.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,400.00	0.00	0.00	7,349.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,500.00	0.00	0.00	7,449.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,549.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,649.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,800.00	0.00	0.00	7,749.92	551.46	240.33	553.08	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,849.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,949.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,100.00	0.00	0.00	8,049.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,149.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,249.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,349.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,449.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,549.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,649.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,749.92	551.46	240.33	553.08	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,849.92	551.46	240.33	553.08	0.00	0.00	0.00	

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
8,969.08	0.00	0.00	8,919.00	551.46	240.33	553.08	0.00	0.00	0.00
[Ares7WA#3H]KOP									
9,000.00	3.09	0.39	8,949.90	552.29	240.34	553.92	10.00	10.00	0.00
9,050.00	8.09	0.39	8,999.65	557.16	240.37	558.79	10.00	10.00	0.00
9,100.00	13.09	0.39	9,048.78	566.35	240.43	567.97	10.00	10.00	0.00
9,150.00	18.09	0.39	9,096.93	579.79	240.52	581.41	10.00	10.00	0.00
9,200.00	23.09	0.39	9,143.72	597.37	240.64	598.99	10.00	10.00	0.00
9,250.00	28.09	0.39	9,188.80	618.96	240.79	620.58	10.00	10.00	0.00
9,300.00	33.09	0.39	9,231.82	644.39	240.97	646.02	10.00	10.00	0.00
9,350.00	38.09	0.39	9,272.47	673.48	241.17	675.11	10.00	10.00	0.00
9,400.00	43.09	0.39	9,310.43	706.01	241.39	707.63	10.00	10.00	0.00
9,450.00	48.09	0.39	9,345.40	741.71	241.64	743.34	10.00	10.00	0.00
9,500.00	53.09	0.39	9,377.14	780.33	241.90	781.96	10.00	10.00	0.00
9,550.00	58.09	0.39	9,405.38	821.57	242.18	823.20	10.00	10.00	0.00
9,600.00	63.09	0.39	9,429.93	865.11	242.48	866.74	10.00	10.00	0.00
9,650.00	68.09	0.39	9,450.58	910.63	242.79	912.26	10.00	10.00	0.00
9,700.00	73.09	0.39	9,467.19	957.77	243.12	959.40	10.00	10.00	0.00
9,750.00	78.09	0.39	9,479.63	1,006.18	243.45	1,007.81	10.00	10.00	0.00
9,800.00	83.09	0.39	9,487.80	1,055.49	243.79	1,057.13	10.00	10.00	0.00
9,850.00	88.09	0.39	9,491.64	1,105.33	244.13	1,106.96	10.00	10.00	0.00
9,869.08	90.00	0.39	9,491.96	1,124.40	244.26	1,126.04	10.00	10.00	0.00
9,900.00	90.00	0.39	9,491.96	1,155.32	244.47	1,156.96	0.00	0.00	0.00
10,000.00	90.00	0.39	9,491.96	1,255.32	245.16	1,256.96	0.00	0.00	0.00
10,100.00	90.00	0.39	9,491.96	1,355.32	245.84	1,356.96	0.00	0.00	0.00
10,200.00	90.00	0.39	9,491.96	1,455.31	246.53	1,456.96	0.00	0.00	0.00
10,300.00	90.00	0.39	9,491.96	1,555.31	247.22	1,556.96	0.00	0.00	0.00
10,400.00	90.00	0.39	9,491.96	1,655.31	247.90	1,656.96	0.00	0.00	0.00
10,500.00	90.00	0.39	9,491.96	1,755.31	248.59	1,756.96	0.00	0.00	0.00
10,600.00	90.00	0.39	9,491.97	1,855.30	249.27	1,856.96	0.00	0.00	0.00
10,700.00	90.00	0.39	9,491.97	1,955.30	249.96	1,956.96	0.00	0.00	0.00
10,800.00	90.00	0.39	9,491.97	2,055.30	250.65	2,056.96	0.00	0.00	0.00
10,900.00	90.00	0.39	9,491.97	2,155.30	251.33	2,156.96	0.00	0.00	0.00
11,000.00	90.00	0.39	9,491.97	2,255.29	252.02	2,256.96	0.00	0.00	0.00
11,100.00	90.00	0.39	9,491.97	2,355.29	252.70	2,356.96	0.00	0.00	0.00
11,200.00	90.00	0.39	9,491.97	2,455.29	253.39	2,456.96	0.00	0.00	0.00
11,300.00	90.00	0.39	9,491.97	2,555.29	254.08	2,556.96	0.00	0.00	0.00
11,400.00	90.00	0.39	9,491.97	2,655.29	254.76	2,656.96	0.00	0.00	0.00
11,500.00	90.00	0.39	9,491.97	2,755.28	255.45	2,756.96	0.00	0.00	0.00
11,600.00	90.00	0.39	9,491.97	2,855.28	256.13	2,856.96	0.00	0.00	0.00
11,700.00	90.00	0.39	9,491.98	2,955.28	256.82	2,956.96	0.00	0.00	0.00
11,800.00	90.00	0.39	9,491.98	3,055.28	257.51	3,056.96	0.00	0.00	0.00
11,900.00	90.00	0.39	9,491.98	3,155.27	258.19	3,156.96	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
12,000.00	90.00	0.39	9,491.98	3,255.27	258.88	3,256.96	0.00	0.00	0.00
12,100.00	90.00	0.39	9,491.98	3,355.27	259.56	3,356.96	0.00	0.00	0.00
12,200.00	90.00	0.39	9,491.98	3,455.27	260.25	3,456.96	0.00	0.00	0.00
12,300.00	90.00	0.39	9,491.98	3,555.26	260.94	3,556.96	0.00	0.00	0.00
12,400.00	90.00	0.39	9,491.98	3,655.26	261.62	3,656.96	0.00	0.00	0.00
12,500.00	90.00	0.39	9,491.98	3,755.26	262.31	3,756.96	0.00	0.00	0.00
12,600.00	90.00	0.39	9,491.98	3,855.26	262.99	3,856.96	0.00	0.00	0.00
12,700.00	90.00	0.39	9,491.99	3,955.25	263.68	3,956.96	0.00	0.00	0.00
12,800.00	90.00	0.39	9,491.99	4,055.25	264.37	4,056.96	0.00	0.00	0.00
12,900.00	90.00	0.39	9,491.99	4,155.25	265.05	4,156.96	0.00	0.00	0.00
13,000.00	90.00	0.39	9,491.99	4,255.25	265.74	4,256.96	0.00	0.00	0.00
13,100.00	90.00	0.39	9,491.99	4,355.25	266.42	4,356.96	0.00	0.00	0.00
13,200.00	90.00	0.39	9,491.99	4,455.24	267.11	4,456.96	0.00	0.00	0.00
13,300.00	90.00	0.39	9,491.99	4,555.24	267.80	4,556.96	0.00	0.00	0.00
13,400.00	90.00	0.39	9,491.99	4,655.24	268.48	4,656.96	0.00	0.00	0.00
13,500.00	90.00	0.39	9,491.99	4,755.24	269.17	4,756.96	0.00	0.00	0.00
13,600.00	90.00	0.39	9,491.99	4,855.23	269.85	4,856.96	0.00	0.00	0.00
13,700.00	90.00	0.39	9,492.00	4,955.23	270.54	4,956.96	0.00	0.00	0.00
13,800.00	90.00	0.39	9,492.00	5,055.23	271.23	5,056.96	0.00	0.00	0.00
13,900.00	90.00	0.39	9,492.00	5,155.23	271.91	5,156.96	0.00	0.00	0.00
14,000.00	90.00	0.39	9,492.00	5,255.22	272.60	5,256.96	0.00	0.00	0.00
14,100.00	90.00	0.39	9,492.00	5,355.22	273.28	5,356.96	0.00	0.00	0.00
14,185.42	90.00	0.39	9,492.00	5,440.64	273.87	5,442.38	0.00	0.00	0.00
[Ares7WA#3H]LTP/BHL									
14,200.00	90.00	0.39	9,492.00	5,455.22	273.97	5,456.96	0.00	0.00	0.00
14,230.42	90.00	0.39	9,492.00	5,485.64	274.18	5,487.38	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
[Ares7WA#3H]FTP	0.00	0.00	0.00	781.46	241.91	477,779.71	562,644.50	32.313370	-104.130559
- hit/miss target									
- Shape									
- plan misses target center by 818.05usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[Ares7WA#3H]KOP	0.00	0.00	8,919.00	551.46	240.33	477,549.71	562,642.92	32.312738	-104.130565
- plan hits target center									
- Point									
[Ares7WA#3H]LTP/BHL	0.00	0.00	9,492.00	5,440.64	273.87	482,438.89	562,676.46	32.326178	-104.130427
- plan hits target center									
- Point									

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WA No. 3H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WA No. 3H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

RECEIVED

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 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

JUN 28 2019

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 30-015-45143	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP (GAS)
⁴ Property Code	⁵ Property Name ARES 7 WXY FEE	⁶ Well Number 1H
⁷ OGRID No. 372098	⁸ Operator Name MARATHON OIL PERMIAN LLC	⁹ Elevation 3059'

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
D	18	23S	28E		451	NORTH	1030	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	7	23S	28E		330	NORTH	2170	WEST	EDDY

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
316.58			

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.

	CORNER COORDINATES NAD 83, SPCS NM EAST A - X: 602604.61' / Y: 482813.81' B - X: 605206.57' / Y: 482843.69' C - X: 605148.50' / Y: 477508.83' D - X: 602586.62' / Y: 477508.93'	CORNER COORDINATES NAD 27, SPCS NM EAST A - X: 561422.36' / Y: 482754.52' B - X: 564024.29' / Y: 482784.37' C - X: 563966.09' / Y: 477449.65' D - X: 561404.25' / Y: 477449.78'	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: <i>Adrian Covarrubias</i> Date: 6/27/2019 Printed Name: Adrian Covarrubias E-mail Address:	
	LAST TAKE POINT/BOTTOM HOLE LOCATION 330' FNL 2170' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 604773.59' / Y: 482508.89' LAT: 32.32632139N / LON: 104.12796241W NAD 27, SPCS NM EAST X: 563591.30' / Y: 482449.39' LAT: 32.32620150N / LON: 104.12746461W			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. JUNE 19, 2019 Date of Survey Signature and Seal of Professional Surveyor: <i>Lloyd P. Short</i> Certificate Number: LLOYD P. SHORT 21653
	FIRST TAKE POINT 330' FSL 2170' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 604757.75' / Y: 477838.85' LAT: 32.31348478N / LON: 104.12804263W NAD 27, SPCS NM EAST X: 563575.36' / Y: 477779.66' LAT: 32.31336481N / LON: 104.12754525W			
	KICK OFF POINT 100' FSL 2170' FWL, SECTION 7 NAD 83, SPCS NM EAST X: 604756.97' / Y: 477608.85' LAT: 32.31285255N / LON: 104.12804658W NAD 27, SPCS NM EAST X: 563574.58' / Y: 477549.66' LAT: 32.31273257N / LON: 104.12754922W			
SURFACE HOLE LOCATION 451' FNL 1030' FWL, SECTION 18 NAD 83, SPCS NM EAST X: 603614.99' / Y: 477057.43' LAT: 32.31134274N / LON: 104.13174648W NAD 27, SPCS NM EAST X: 562432.60' / Y: 476998.27' LAT: 32.31122281N / LON: 104.13124802W			SHEET 1 OF 3 JOB No. R3980-001 A REV. 3 JCS 6/12/2019	

Distances/areas relative to NAD 83 Combined Scale Factor: 0.999913526 Convergence: 00°06'27.60027"

Rev 7-5-19

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WXY No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Project	Eddy County, NM		
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		

Site	Ares 7			
Site Position:		Northing:	476,998.27 usft	Latitude: 32.311223
From:	Map	Easting:	562,432.60 usft	Longitude: -104.131249
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.11 °

Well	WXY No. 1H			
Well Position	+N/-S	0.00 usft	Northing:	476,998.27 usft
	+E/-W	0.00 usft	Easting:	562,432.60 usft
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft
			Ground Level:	3,059.00 usft

Wellbore	OH					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength	
			(°)	(°)	(nT)	
	HDGM	6/21/2019	7.17	60.03	47,892.40	

Design	Prelim Plan A				
Audit Notes:					
Version:	Phase:		PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	0.20	

Survey Tool Program	Date 6/21/2019			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
0.00	14,198.68	Prelim Plan A (OH)	MWD+IFR1	OWSG MWD + IFR1

Planned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
[Ares7WXY#1H]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
500.00	0.00	0.00	500.00	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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WXY No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
800.00	0.00	0.00	800.00	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
1,000.00	0.00	0.00	1,000.00	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
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	2.00	64.23	1,299.98	0.76	1.57	0.76	2.00	2.00	0.00
1,400.00	4.00	64.23	1,399.84	3.03	6.28	3.06	2.00	2.00	0.00
1,500.00	6.00	64.23	1,499.45	6.82	14.13	6.87	2.00	2.00	0.00
1,600.00	8.00	64.23	1,598.70	12.12	25.11	12.21	2.00	2.00	0.00
1,700.00	10.00	64.23	1,697.47	18.92	39.19	19.06	2.00	2.00	0.00
1,800.00	12.00	64.23	1,795.62	27.22	56.38	27.42	2.00	2.00	0.00
1,900.00	12.00	64.23	1,893.44	36.26	75.10	36.52	0.00	0.00	0.00
2,000.00	12.00	64.23	1,991.25	45.30	93.82	45.63	0.00	0.00	0.00
2,100.00	12.00	64.23	2,089.07	54.34	112.54	54.73	0.00	0.00	0.00
2,200.00	12.00	64.23	2,186.88	63.38	131.27	63.84	0.00	0.00	0.00
2,300.00	12.00	64.23	2,284.70	72.42	149.99	72.94	0.00	0.00	0.00
2,400.00	12.00	64.23	2,382.51	81.46	168.71	82.05	0.00	0.00	0.00
2,500.00	12.00	64.23	2,480.33	90.50	187.44	91.15	0.00	0.00	0.00
2,600.00	12.00	64.23	2,578.14	99.54	206.16	100.26	0.00	0.00	0.00
2,700.00	12.00	64.23	2,675.96	108.58	224.88	109.37	0.00	0.00	0.00
2,800.00	12.00	64.23	2,773.77	117.62	243.60	118.47	0.00	0.00	0.00
2,900.00	12.00	64.23	2,871.59	126.66	262.33	127.58	0.00	0.00	0.00
3,000.00	12.00	64.23	2,969.40	135.70	281.05	136.68	0.00	0.00	0.00
3,100.00	12.00	64.23	3,067.22	144.74	299.77	145.79	0.00	0.00	0.00
3,200.00	12.00	64.23	3,165.03	153.78	318.50	154.89	0.00	0.00	0.00
3,300.00	12.00	64.23	3,262.84	162.82	337.22	164.00	0.00	0.00	0.00
3,400.00	12.00	64.23	3,360.66	171.86	355.94	173.10	0.00	0.00	0.00
3,500.00	12.00	64.23	3,458.47	180.90	374.67	182.21	0.00	0.00	0.00
3,600.00	12.00	64.23	3,556.29	189.94	393.39	191.31	0.00	0.00	0.00
3,700.00	12.00	64.23	3,654.10	198.98	412.11	200.42	0.00	0.00	0.00
3,800.00	12.00	64.23	3,751.92	208.02	430.83	209.53	0.00	0.00	0.00
3,900.00	12.00	64.23	3,849.73	217.06	449.56	218.63	0.00	0.00	0.00
4,000.00	12.00	64.23	3,947.55	226.10	468.28	227.74	0.00	0.00	0.00
4,100.00	12.00	64.23	4,045.36	235.14	487.00	236.84	0.00	0.00	0.00
4,200.00	12.00	64.23	4,143.18	244.18	505.73	245.95	0.00	0.00	0.00
4,300.00	12.00	64.23	4,240.99	253.22	524.45	255.05	0.00	0.00	0.00
4,400.00	12.00	64.23	4,338.81	262.26	543.17	264.16	0.00	0.00	0.00
4,500.00	12.00	64.23	4,436.62	271.30	561.89	273.26	0.00	0.00	0.00
4,600.00	12.00	64.23	4,534.44	280.34	580.62	282.37	0.00	0.00	0.00
4,700.00	12.00	64.23	4,632.25	289.38	599.34	291.47	0.00	0.00	0.00
4,800.00	12.00	64.23	4,730.07	298.42	618.06	300.58	0.00	0.00	0.00
4,900.00	12.00	64.23	4,827.88	307.46	636.79	309.68	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WXY No: 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)	
5,000.00	12.00	64.23	4,925.70	316.50	655.51	318.79	0.00	0.00	0.00	
5,100.00	12.00	64.23	5,023.51	325.54	674.23	327.90	0.00	0.00	0.00	
5,200.00	12.00	64.23	5,121.33	334.58	692.96	337.00	0.00	0.00	0.00	
5,300.00	12.00	64.23	5,219.14	343.62	711.68	346.11	0.00	0.00	0.00	
5,400.00	12.00	64.23	5,316.95	352.66	730.40	355.21	0.00	0.00	0.00	
5,500.00	12.00	64.23	5,414.77	361.70	749.12	364.32	0.00	0.00	0.00	
5,600.00	12.00	64.23	5,512.58	370.74	767.85	373.42	0.00	0.00	0.00	
5,700.00	12.00	64.23	5,610.40	379.78	786.57	382.53	0.00	0.00	0.00	
5,800.00	12.00	64.23	5,708.21	388.83	805.29	391.63	0.00	0.00	0.00	
5,900.00	12.00	64.23	5,806.03	397.87	824.02	400.74	0.00	0.00	0.00	
6,000.00	12.00	64.23	5,903.84	406.91	842.74	409.84	0.00	0.00	0.00	
6,100.00	12.00	64.23	6,001.66	415.95	861.46	418.95	0.00	0.00	0.00	
6,200.00	12.00	64.23	6,099.47	424.99	880.18	428.06	0.00	0.00	0.00	
6,300.00	12.00	64.23	6,197.29	434.03	898.91	437.16	0.00	0.00	0.00	
6,400.00	12.00	64.23	6,295.10	443.07	917.63	446.27	0.00	0.00	0.00	
6,500.00	12.00	64.23	6,392.92	452.11	936.35	455.37	0.00	0.00	0.00	
6,600.00	12.00	64.23	6,490.73	461.15	955.08	464.48	0.00	0.00	0.00	
6,700.00	12.00	64.23	6,588.55	470.19	973.80	473.58	0.00	0.00	0.00	
6,800.00	12.00	64.23	6,686.36	479.23	992.52	482.69	0.00	0.00	0.00	
6,900.00	12.00	64.23	6,784.18	488.27	1,011.25	491.79	0.00	0.00	0.00	
7,000.00	12.00	64.23	6,881.99	497.31	1,029.97	500.90	0.00	0.00	0.00	
7,100.00	12.00	64.23	6,979.81	506.35	1,048.69	510.00	0.00	0.00	0.00	
7,200.00	12.00	64.23	7,077.62	515.39	1,067.41	519.11	0.00	0.00	0.00	
7,297.16	12.00	64.23	7,172.65	524.17	1,085.60	527.96	0.00	0.00	0.00	
7,300.00	11.94	64.23	7,175.44	524.43	1,086.14	528.21	2.00	-2.00	0.00	
7,400.00	9.94	64.23	7,273.61	532.68	1,103.23	536.53	2.00	-2.00	0.00	
7,500.00	7.94	64.23	7,372.39	539.44	1,117.23	543.34	2.00	-2.00	0.00	
7,600.00	5.94	64.23	7,471.65	544.69	1,128.11	548.63	2.00	-2.00	0.00	
7,700.00	3.94	64.23	7,571.28	548.44	1,135.87	552.40	2.00	-2.00	0.00	
7,800.00	1.94	64.23	7,671.14	550.67	1,140.50	554.65	2.00	-2.00	0.00	
7,897.16	0.00	0.00	7,768.28	551.39	1,141.98	555.37	2.00	-2.00	0.00	
7,900.00	0.00	0.00	7,771.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,871.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,100.00	0.00	0.00	7,971.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,071.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,300.00	0.00	0.00	8,171.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,400.00	0.00	0.00	8,271.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,371.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,600.00	0.00	0.00	8,471.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,700.00	0.00	0.00	8,571.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,800.00	0.00	0.00	8,671.12	551.39	1,141.98	555.37	0.00	0.00	0.00	
8,900.00	0.00	0.00	8,771.12	551.39	1,141.98	555.37	0.00	0.00	0.00	

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares 7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WXY No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	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)
8,926.88	0.00	0.00	8,798.00	551.39	1,141.98	555.37	0.00	0.00	0.00
[Ares7WXY#1H]KOP									
8,950.00	2.31	0.20	8,821.11	551.86	1,141.98	555.84	10.00	10.00	0.00
9,000.00	7.31	0.20	8,870.92	556.05	1,142.00	560.03	10.00	10.00	0.00
9,050.00	12.31	0.20	8,920.18	564.57	1,142.02	568.55	10.00	10.00	0.00
9,100.00	17.31	0.20	8,968.50	577.35	1,142.07	581.33	10.00	10.00	0.00
9,150.00	22.31	0.20	9,015.52	594.29	1,142.13	598.27	10.00	10.00	0.00
9,200.00	27.31	0.20	9,060.89	615.26	1,142.20	619.25	10.00	10.00	0.00
9,250.00	32.31	0.20	9,104.26	640.11	1,142.28	644.10	10.00	10.00	0.00
9,300.00	37.31	0.20	9,145.30	668.65	1,142.38	672.63	10.00	10.00	0.00
9,350.00	42.31	0.20	9,183.70	700.65	1,142.49	704.63	10.00	10.00	0.00
9,400.00	47.31	0.20	9,219.16	735.88	1,142.61	739.86	10.00	10.00	0.00
9,450.00	52.31	0.20	9,251.41	774.06	1,142.74	778.05	10.00	10.00	0.00
9,500.00	57.31	0.20	9,280.22	814.91	1,142.88	818.90	10.00	10.00	0.00
9,550.00	62.31	0.20	9,305.35	858.12	1,143.03	862.10	10.00	10.00	0.00
9,600.00	67.31	0.20	9,326.62	903.35	1,143.18	907.33	10.00	10.00	0.00
9,650.00	72.31	0.20	9,343.87	950.26	1,143.34	954.25	10.00	10.00	0.00
9,700.00	77.31	0.20	9,356.97	998.50	1,143.51	1,002.49	10.00	10.00	0.00
9,750.00	82.31	0.20	9,365.81	1,047.70	1,143.67	1,051.68	10.00	10.00	0.00
9,800.00	87.31	0.20	9,370.33	1,097.47	1,143.84	1,101.46	10.00	10.00	0.00
9,826.87	90.00	0.20	9,370.96	1,124.34	1,143.94	1,128.33	10.00	10.00	0.00
9,900.00	90.00	0.20	9,370.96	1,197.46	1,144.18	1,201.45	0.00	0.00	0.00
10,000.00	90.00	0.20	9,370.96	1,297.46	1,144.53	1,301.45	0.00	0.00	0.00
10,100.00	90.00	0.20	9,370.96	1,397.46	1,144.87	1,401.45	0.00	0.00	0.00
10,200.00	90.00	0.20	9,370.96	1,497.46	1,145.21	1,501.45	0.00	0.00	0.00
10,300.00	90.00	0.20	9,370.96	1,597.46	1,145.55	1,601.45	0.00	0.00	0.00
10,400.00	90.00	0.20	9,370.96	1,697.46	1,145.89	1,701.45	0.00	0.00	0.00
10,500.00	90.00	0.20	9,370.96	1,797.46	1,146.23	1,801.45	0.00	0.00	0.00
10,600.00	90.00	0.20	9,370.97	1,897.46	1,146.57	1,901.45	0.00	0.00	0.00
10,700.00	90.00	0.20	9,370.97	1,997.46	1,146.91	2,001.45	0.00	0.00	0.00
10,800.00	90.00	0.20	9,370.97	2,097.46	1,147.26	2,101.45	0.00	0.00	0.00
10,900.00	90.00	0.20	9,370.97	2,197.46	1,147.60	2,201.45	0.00	0.00	0.00
11,000.00	90.00	0.20	9,370.97	2,297.46	1,147.94	2,301.45	0.00	0.00	0.00
11,100.00	90.00	0.20	9,370.97	2,397.46	1,148.28	2,401.45	0.00	0.00	0.00
11,200.00	90.00	0.20	9,370.97	2,497.46	1,148.62	2,501.45	0.00	0.00	0.00
11,300.00	90.00	0.20	9,370.97	2,597.46	1,148.96	2,601.45	0.00	0.00	0.00
11,400.00	90.00	0.20	9,370.97	2,697.46	1,149.30	2,701.45	0.00	0.00	0.00
11,500.00	90.00	0.20	9,370.97	2,797.45	1,149.64	2,801.45	0.00	0.00	0.00
11,600.00	90.00	0.20	9,370.98	2,897.45	1,149.99	2,901.45	0.00	0.00	0.00
11,700.00	90.00	0.20	9,370.98	2,997.45	1,150.33	3,001.45	0.00	0.00	0.00
11,800.00	90.00	0.20	9,370.98	3,097.45	1,150.67	3,101.45	0.00	0.00	0.00
11,900.00	90.00	0.20	9,370.98	3,197.45	1,151.01	3,201.45	0.00	0.00	0.00

Company:	Marathon Oil	Local Co-ordinate Reference:	Well WXY No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Site:	Ares-7	MD Reference:	Well @ 3084.00usft (GL: 3059' + KB: 25' (PD101))
Well:	WXY No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

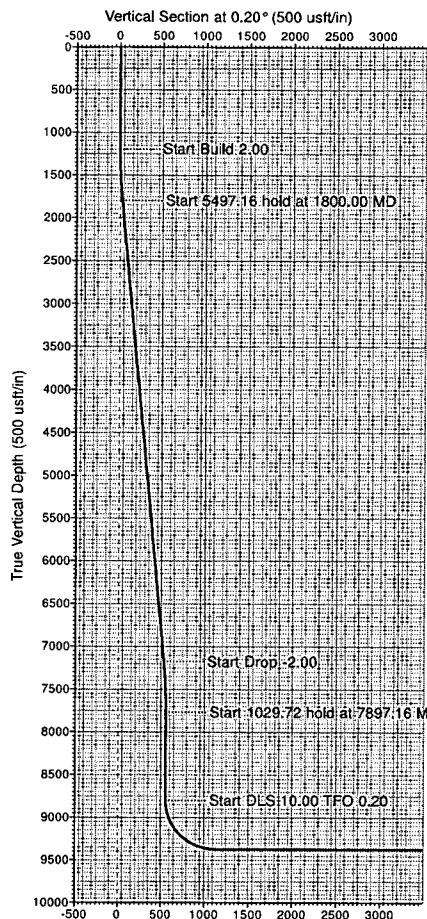
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
12,000.00	90.00	0.20	9,370.98	3,297.45	1,151.35	3,301.45	0.00	0.00	0.00	
12,100.00	90.00	0.20	9,370.98	3,397.45	1,151.69	3,401.45	0.00	0.00	0.00	
12,200.00	90.00	0.20	9,370.98	3,497.45	1,152.03	3,501.45	0.00	0.00	0.00	
12,300.00	90.00	0.20	9,370.98	3,597.45	1,152.37	3,601.45	0.00	0.00	0.00	
12,400.00	90.00	0.20	9,370.98	3,697.45	1,152.72	3,701.45	0.00	0.00	0.00	
12,500.00	90.00	0.20	9,370.98	3,797.45	1,153.06	3,801.45	0.00	0.00	0.00	
12,600.00	90.00	0.20	9,370.99	3,897.45	1,153.40	3,901.45	0.00	0.00	0.00	
12,700.00	90.00	0.20	9,370.99	3,997.45	1,153.74	4,001.45	0.00	0.00	0.00	
12,800.00	90.00	0.20	9,370.99	4,097.45	1,154.08	4,101.45	0.00	0.00	0.00	
12,900.00	90.00	0.20	9,370.99	4,197.45	1,154.42	4,201.45	0.00	0.00	0.00	
13,000.00	90.00	0.20	9,370.99	4,297.45	1,154.76	4,301.45	0.00	0.00	0.00	
13,100.00	90.00	0.20	9,370.99	4,397.45	1,155.10	4,401.45	0.00	0.00	0.00	
13,200.00	90.00	0.20	9,370.99	4,497.45	1,155.45	4,501.45	0.00	0.00	0.00	
13,300.00	90.00	0.20	9,370.99	4,597.44	1,155.79	4,601.45	0.00	0.00	0.00	
13,400.00	90.00	0.20	9,370.99	4,697.44	1,156.13	4,701.45	0.00	0.00	0.00	
13,500.00	90.00	0.20	9,370.99	4,797.44	1,156.47	4,801.45	0.00	0.00	0.00	
13,600.00	90.00	0.20	9,370.99	4,897.44	1,156.81	4,901.45	0.00	0.00	0.00	
13,700.00	90.00	0.20	9,371.00	4,997.44	1,157.15	5,001.45	0.00	0.00	0.00	
13,800.00	90.00	0.20	9,371.00	5,097.44	1,157.49	5,101.45	0.00	0.00	0.00	
13,900.00	90.00	0.20	9,371.00	5,197.44	1,157.83	5,201.45	0.00	0.00	0.00	
14,000.00	90.00	0.20	9,371.00	5,297.44	1,158.18	5,301.45	0.00	0.00	0.00	
14,100.00	90.00	0.20	9,371.00	5,397.44	1,158.52	5,401.45	0.00	0.00	0.00	
14,153.68	90.00	0.20	9,371.00	5,451.12	1,158.70	5,455.13	0.00	0.00	0.00	
[Ares7WXY#1H]LTP/BHL										
14,198.68	90.00	0.20	9,371.00	5,496.12	1,158.85	5,500.13	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
[Ares7WXY#1H]FTP - hit/miss target - Shape	0.00	0.00	0.00	781.39	1,142.76	477,779.66	563,575.36	32.313365	-104.127546
- plan misses target center by 1384.37usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[Ares7WXY#1H]KOP - plan hits target center - Point	0.00	0.00	8,798.00	551.39	1,141.98	477,549.66	563,574.58	32.312733	-104.127549
[Ares7WXY#1H]LTP/BH - plan hits target center - Point	0.00	0.00	9,371.00	5,451.12	1,158.70	482,449.39	563,591.30	32.326202	-104.127465

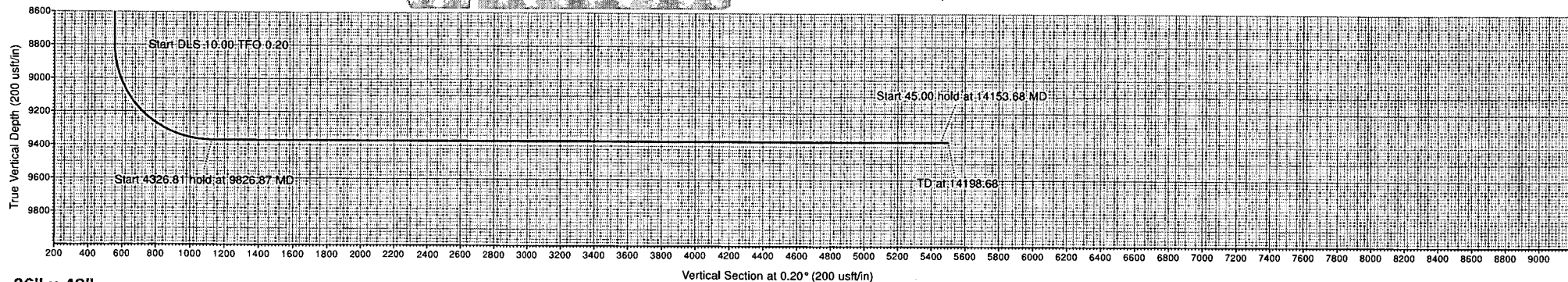
Checked By: _____ Approved By: _____ Date: _____



Marathon Oil
Eddy County, NM
Ares 7
WXY No. 1H
Prelim Plan A
GL: 3059' + KB: 25' (PD101)



Target Line: 9371' TVD @ 0° VS :: 90° INC



36" x 48"

