

Company:	Marathon Oil	Local Co-ordinate Reference:	Well TBC No. 1H
Project:	Eddy County, NM	TVD Reference:	Well @ 3095.00usft (GL: 3068' + KB: 27' (PD582))
Site:	Hades 2	MD Reference:	Well @ 3095.00usft (GL: 3068' + KB: 27' (PD582))
Well:	TBC 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	Hades 2				
Site Position:		Northing:	487,686.32 usft	Latitude:	32.340452
From:	Map	Easting:	586,821.45 usft	Longitude:	-104.052216
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	TBC No. 1H				
Well Position	+N/-S	0.00 usft	Northing:	487,686.39 usft	Latitude: 32.340452
	+E/-W	0.00 usft	Easting:	586,851.50 usft	Longitude: -104.052119
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level: 3,068.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/18/2019	7.12	60.07	47,918.30

Design	Prelim Plan A				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	180.17	

Survey Tool Program	Date 6/18/2019				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	13,989.12	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
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
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00

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Site:	Hades 2	MD Reference:	Well @ 3095.00usft (GL: 3068' + KB: 27' (PD582))
Well:	TBC 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)
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	59.26	1,599.98	0.89	1.50	-0.90	2.00	2.00	0.00
1,700.00	4.00	59.26	1,699.84	3.57	6.00	-3.58	2.00	2.00	0.00
1,800.00	6.00	59.26	1,799.45	8.02	13.49	-8.06	2.00	2.00	0.00
1,900.00	8.00	59.26	1,898.70	14.25	23.96	-14.32	2.00	2.00	0.00
2,000.00	10.00	59.26	1,997.47	22.25	37.41	-22.36	2.00	2.00	0.00
2,100.00	10.00	59.26	2,095.95	31.12	52.33	-31.28	0.00	0.00	0.00
2,200.00	10.00	59.26	2,194.43	40.00	67.26	-40.20	0.00	0.00	0.00
2,300.00	10.00	59.26	2,292.91	48.87	82.18	-49.12	0.00	0.00	0.00
2,400.00	10.00	59.26	2,391.39	57.75	97.11	-58.04	0.00	0.00	0.00
2,500.00	10.00	59.26	2,489.87	66.63	112.03	-66.96	0.00	0.00	0.00
2,600.00	10.00	59.26	2,588.35	75.50	126.96	-75.88	0.00	0.00	0.00
2,700.00	10.00	59.26	2,686.83	84.38	141.88	-84.80	0.00	0.00	0.00
2,800.00	10.00	59.26	2,785.31	93.25	156.81	-93.72	0.00	0.00	0.00
2,900.00	10.00	59.26	2,883.79	102.13	171.73	-102.64	0.00	0.00	0.00
3,000.00	10.00	59.26	2,982.27	111.01	186.66	-111.56	0.00	0.00	0.00
3,100.00	10.00	59.26	3,080.75	119.88	201.58	-120.48	0.00	0.00	0.00
3,200.00	10.00	59.26	3,179.23	128.76	216.51	-129.40	0.00	0.00	0.00
3,300.00	10.00	59.26	3,277.72	137.64	231.43	-138.32	0.00	0.00	0.00
3,400.00	10.00	59.26	3,376.20	146.51	246.36	-147.24	0.00	0.00	0.00
3,500.00	10.00	59.26	3,474.68	155.39	261.28	-156.16	0.00	0.00	0.00
3,600.00	10.00	59.26	3,573.16	164.26	276.21	-165.08	0.00	0.00	0.00
3,700.00	10.00	59.26	3,671.64	173.14	291.13	-174.00	0.00	0.00	0.00
3,800.00	10.00	59.26	3,770.12	182.02	306.06	-182.92	0.00	0.00	0.00
3,900.00	10.00	59.26	3,868.60	190.89	320.98	-191.84	0.00	0.00	0.00
4,000.00	10.00	59.26	3,967.08	199.77	335.91	-200.76	0.00	0.00	0.00
4,100.00	10.00	59.26	4,065.56	208.64	350.83	-209.68	0.00	0.00	0.00
4,200.00	10.00	59.26	4,164.04	217.52	365.76	-218.60	0.00	0.00	0.00
4,300.00	10.00	59.26	4,262.52	226.40	380.68	-227.52	0.00	0.00	0.00
4,400.00	10.00	59.26	4,361.00	235.27	395.61	-236.44	0.00	0.00	0.00
4,500.00	10.00	59.26	4,459.48	244.15	410.53	-245.36	0.00	0.00	0.00
4,600.00	10.00	59.26	4,557.97	253.02	425.45	-254.28	0.00	0.00	0.00
4,700.00	10.00	59.26	4,656.45	261.90	440.38	-263.21	0.00	0.00	0.00
4,800.00	10.00	59.26	4,754.93	270.78	455.30	-272.13	0.00	0.00	0.00
4,900.00	10.00	59.26	4,853.41	279.65	470.23	-281.05	0.00	0.00	0.00
5,000.00	10.00	59.26	4,951.89	288.53	485.15	-289.97	0.00	0.00	0.00

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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)
5,100.00	10.00	59.26	5,050.37	297.40	500.08	-298.89	0.00	0.00	0.00
5,200.00	10.00	59.26	5,148.85	306.28	515.00	-307.81	0.00	0.00	0.00
5,300.00	10.00	59.26	5,247.33	315.16	529.93	-316.73	0.00	0.00	0.00
5,400.00	10.00	59.26	5,345.81	324.03	544.85	-325.65	0.00	0.00	0.00
5,500.00	10.00	59.26	5,444.29	332.91	559.78	-334.57	0.00	0.00	0.00
5,600.00	10.00	59.26	5,542.77	341.78	574.70	-343.49	0.00	0.00	0.00
5,700.00	10.00	59.26	5,641.25	350.66	589.63	-352.41	0.00	0.00	0.00
5,800.00	10.00	59.26	5,739.73	359.54	604.55	-361.33	0.00	0.00	0.00
5,900.00	10.00	59.26	5,838.22	368.41	619.48	-370.25	0.00	0.00	0.00
6,000.00	10.00	59.26	5,936.70	377.29	634.40	-379.17	0.00	0.00	0.00
6,100.00	10.00	59.26	6,035.18	386.16	649.33	-388.09	0.00	0.00	0.00
6,200.00	10.00	59.26	6,133.66	395.04	664.25	-397.01	0.00	0.00	0.00
6,261.44	10.00	59.26	6,194.16	400.49	673.42	-402.49	0.00	0.00	0.00
6,300.00	9.23	59.26	6,232.18	403.79	678.96	-405.80	2.00	-2.00	0.00
6,400.00	7.23	59.26	6,331.15	411.10	691.26	-413.15	2.00	-2.00	0.00
6,500.00	5.23	59.26	6,430.55	416.65	700.58	-418.72	2.00	-2.00	0.00
6,600.00	3.23	59.26	6,530.28	420.42	706.92	-422.51	2.00	-2.00	0.00
6,700.00	1.23	59.26	6,630.19	422.40	710.26	-424.51	2.00	-2.00	0.00
6,761.44	0.00	0.00	6,691.63	422.74	710.83	-424.85	2.00	-2.00	0.00
6,800.00	0.00	0.00	6,730.19	422.74	710.83	-424.85	0.00	0.00	0.00
6,900.00	0.00	0.00	6,830.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,000.00	0.00	0.00	6,930.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,100.00	0.00	0.00	7,030.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,200.00	0.00	0.00	7,130.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,300.00	0.00	0.00	7,230.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,400.00	0.00	0.00	7,330.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,500.00	0.00	0.00	7,430.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,600.00	0.00	0.00	7,530.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,700.00	0.00	0.00	7,630.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,800.00	0.00	0.00	7,730.19	422.74	710.83	-424.85	0.00	0.00	0.00
7,900.00	0.00	0.00	7,830.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,000.00	0.00	0.00	7,930.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,100.00	0.00	0.00	8,030.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,200.00	0.00	0.00	8,130.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,300.00	0.00	0.00	8,230.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,400.00	0.00	0.00	8,330.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,500.00	0.00	0.00	8,430.19	422.74	710.83	-424.85	0.00	0.00	0.00
8,517.81	0.00	0.00	8,448.00	422.74	710.83	-424.85	0.00	0.00	0.00
[HadesTBC#1H]FTP									
8,550.00	3.22	180.17	8,480.17	421.84	710.83	-423.94	10.00	10.00	0.00
8,600.00	8.22	180.17	8,529.91	416.86	710.81	-418.96	10.00	10.00	0.00
8,650.00	13.22	180.17	8,579.02	407.56	710.79	-409.67	10.00	10.00	0.00

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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)	
8,700.00	18.22	180.17	8,627.14	394.02	710.75	-396.12	10.00	10.00	0.00	
8,750.00	23.22	180.17	8,673.89	376.33	710.69	-378.44	10.00	10.00	0.00	
8,800.00	28.22	180.17	8,718.92	354.64	710.63	-356.75	10.00	10.00	0.00	
8,850.00	33.22	180.17	8,761.89	329.11	710.56	-331.22	10.00	10.00	0.00	
8,900.00	38.22	180.17	8,802.47	299.93	710.47	-302.03	10.00	10.00	0.00	
8,950.00	43.22	180.17	8,840.36	267.32	710.37	-269.43	10.00	10.00	0.00	
9,000.00	48.22	180.17	8,875.25	231.54	710.27	-233.64	10.00	10.00	0.00	
9,050.00	53.22	180.17	8,906.90	192.85	710.16	-194.95	10.00	10.00	0.00	
9,100.00	58.22	180.17	8,935.05	151.55	710.03	-153.65	10.00	10.00	0.00	
9,150.00	63.22	180.17	8,959.50	107.95	709.91	-110.05	10.00	10.00	0.00	
9,200.00	68.22	180.17	8,980.05	62.39	709.77	-64.49	10.00	10.00	0.00	
9,250.00	73.22	180.17	8,996.56	15.21	709.63	-17.31	10.00	10.00	0.00	
9,300.00	78.22	180.17	9,008.89	-33.23	709.49	31.13	10.00	10.00	0.00	
9,350.00	83.22	180.17	9,016.95	-82.56	709.35	80.46	10.00	10.00	0.00	
9,400.00	88.22	180.17	9,020.68	-132.41	709.20	130.30	10.00	10.00	0.00	
9,417.80	90.00	180.17	9,020.96	-150.21	709.15	148.11	10.00	10.00	0.00	
9,500.00	90.00	180.17	9,020.96	-232.40	708.91	230.30	0.00	0.00	0.00	
9,600.00	90.00	180.17	9,020.96	-332.40	708.61	330.30	0.00	0.00	0.00	
9,700.00	90.00	180.17	9,020.96	-432.40	708.32	430.30	0.00	0.00	0.00	
9,800.00	90.00	180.17	9,020.96	-532.40	708.03	530.30	0.00	0.00	0.00	
9,900.00	90.00	180.17	9,020.96	-632.40	707.73	630.30	0.00	0.00	0.00	
10,000.00	90.00	180.17	9,020.96	-732.40	707.44	730.30	0.00	0.00	0.00	
10,100.00	90.00	180.17	9,020.96	-832.40	707.15	830.30	0.00	0.00	0.00	
10,200.00	90.00	180.17	9,020.97	-932.40	706.85	930.30	0.00	0.00	0.00	
10,300.00	90.00	180.17	9,020.97	-1,032.40	706.56	1,030.30	0.00	0.00	0.00	
10,400.00	90.00	180.17	9,020.97	-1,132.40	706.27	1,130.30	0.00	0.00	0.00	
10,500.00	90.00	180.17	9,020.97	-1,232.40	705.97	1,230.30	0.00	0.00	0.00	
10,600.00	90.00	180.17	9,020.97	-1,332.40	705.68	1,330.30	0.00	0.00	0.00	
10,700.00	90.00	180.17	9,020.97	-1,432.40	705.39	1,430.30	0.00	0.00	0.00	
10,800.00	90.00	180.17	9,020.97	-1,532.40	705.09	1,530.30	0.00	0.00	0.00	
10,900.00	90.00	180.17	9,020.97	-1,632.40	704.80	1,630.30	0.00	0.00	0.00	
11,000.00	90.00	180.17	9,020.97	-1,732.40	704.51	1,730.30	0.00	0.00	0.00	
11,100.00	90.00	180.17	9,020.97	-1,832.40	704.21	1,830.30	0.00	0.00	0.00	
11,200.00	90.00	180.17	9,020.97	-1,932.40	703.92	1,930.30	0.00	0.00	0.00	
11,300.00	90.00	180.17	9,020.98	-2,032.40	703.63	2,030.30	0.00	0.00	0.00	
11,400.00	90.00	180.17	9,020.98	-2,132.40	703.33	2,130.30	0.00	0.00	0.00	
11,500.00	90.00	180.17	9,020.98	-2,232.40	703.04	2,230.30	0.00	0.00	0.00	
11,600.00	90.00	180.17	9,020.98	-2,332.40	702.75	2,330.30	0.00	0.00	0.00	
11,700.00	90.00	180.17	9,020.98	-2,432.40	702.45	2,430.30	0.00	0.00	0.00	
11,800.00	90.00	180.17	9,020.98	-2,532.40	702.16	2,530.30	0.00	0.00	0.00	
11,900.00	90.00	180.17	9,020.98	-2,632.39	701.87	2,630.30	0.00	0.00	0.00	
12,000.00	90.00	180.17	9,020.98	-2,732.39	701.57	2,730.30	0.00	0.00	0.00	

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Site:	Hades 2	MD Reference:	Well @ 3095.00usft (GL: 3068' + KB: 27' (PD582))
Well:	TBC No. 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan A	Database:	WellPlanner1

Planned Survey

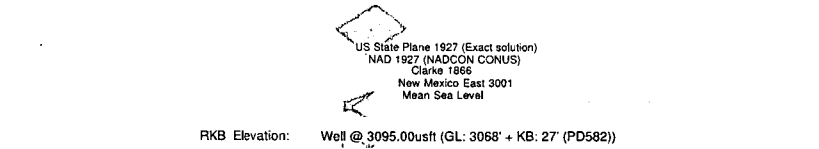
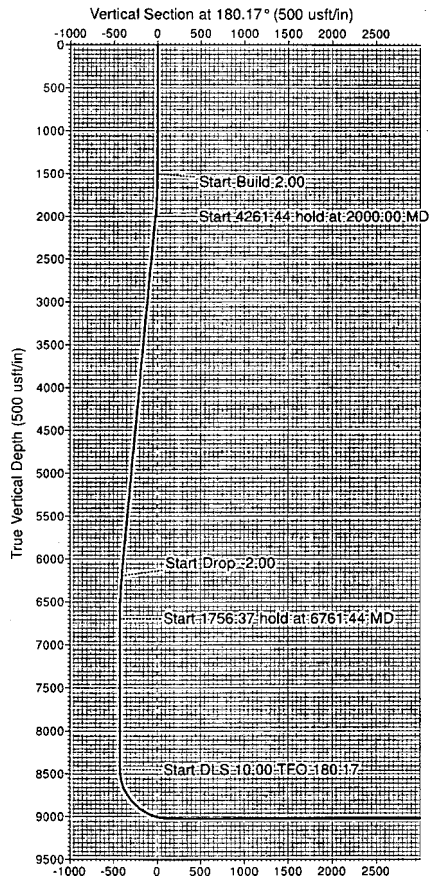
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,100.00	90.00	180.17	9,020.98	-2,832.39	701.28	2,830.30	0.00	0.00	0.00
12,200.00	90.00	180.17	9,020.98	-2,932.39	700.99	2,930.30	0.00	0.00	0.00
12,300.00	90.00	180.17	9,020.98	-3,032.39	700.69	3,030.30	0.00	0.00	0.00
12,400.00	90.00	180.17	9,020.99	-3,132.39	700.40	3,130.30	0.00	0.00	0.00
12,500.00	90.00	180.17	9,020.99	-3,232.39	700.11	3,230.30	0.00	0.00	0.00
12,600.00	90.00	180.17	9,020.99	-3,332.39	699.81	3,330.30	0.00	0.00	0.00
12,700.00	90.00	180.17	9,020.99	-3,432.39	699.52	3,430.30	0.00	0.00	0.00
12,800.00	90.00	180.17	9,020.99	-3,532.39	699.23	3,530.30	0.00	0.00	0.00
12,900.00	90.00	180.17	9,020.99	-3,632.39	698.93	3,630.30	0.00	0.00	0.00
13,000.00	90.00	180.17	9,020.99	-3,732.39	698.64	3,730.30	0.00	0.00	0.00
13,100.00	90.00	180.17	9,020.99	-3,832.39	698.35	3,830.30	0.00	0.00	0.00
13,200.00	90.00	180.17	9,020.99	-3,932.39	698.05	3,930.30	0.00	0.00	0.00
13,300.00	90.00	180.17	9,020.99	-4,032.39	697.76	4,030.30	0.00	0.00	0.00
13,400.00	90.00	180.17	9,020.99	-4,132.39	697.47	4,130.30	0.00	0.00	0.00
13,500.00	90.00	180.17	9,021.00	-4,232.39	697.17	4,230.30	0.00	0.00	0.00
13,600.00	90.00	180.17	9,021.00	-4,332.39	696.88	4,330.30	0.00	0.00	0.00
13,700.00	90.00	180.17	9,021.00	-4,432.39	696.59	4,430.30	0.00	0.00	0.00
13,800.00	90.00	180.17	9,021.00	-4,532.39	696.29	4,530.30	0.00	0.00	0.00
13,900.00	90.00	180.17	9,021.00	-4,632.39	696.00	4,630.30	0.00	0.00	0.00
13,989.12	90.00	180.17	9,021.00	-4,721.51	695.74	4,719.43	0.00	0.00	0.00

[HadesTBC#1H]LTP/BHL

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[HadesTBC#1H]FTP - plan hits target center - Point	0.00	0.00	8,448.00	422.74	710.83	488,109.13	587,562.33	32.341609	-104.049814
[HadesTBC#1H]LTP/BH - plan hits target center - Point	0.00	0.00	9,021.00	-4,721.51	695.74	482,964.88	587,547.24	32.327468	-104.049907

Checked By: _____ Approved By: _____ Date: _____



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	59.26	1997.47	22.25	37.41	2.00	-22.36
4	6261.44	10.00	59.26	6194.16	400.49	673.42	0.00	-402.49
5	6761.44	0.00	0.00	6891.63	422.74	710.83	2.00	-424.85
6	8517.81	0.00	0.00	8448.00	422.74	710.83	0.00	-424.85
7	9417.80	90.00	180.17	9020.96	-150.21	709.15	10.00	148.11
8	13989.12	90.00	180.17	9021.00	-4721.51	695.74	0.00	4719.42

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[HadesTBC#1H]FTP	8448.00	422.74	710.83	488109.13	587562.33
[HadesTBC#1H]LTP/BHL	9021.00	-4721.51	695.74	482964.88	587547.24



PRODIRECTIONAL



Azimuths to Grid North
True North: -0.15°
Magnetic North: 6.97°
Magnetic Field Strength: 47918.3nT
Dip Angle: 60.07°
Date: 6/19/2019
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.97°

Declination (M to T): 7.12° East

Target Line: 9021' TVD @ 0° VS: 90° INC

