



Pro Directional Survey Report



Company:	Marathon Oil	Local Co-ordinate Reference:	Well No. 2H
Project:	Eddy County, NM	TVD Reference:	Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
Site:	Cypress Fee 23-27-9 (2-3-4)	MD Reference:	Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
Well:	No. 2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	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	Cypress Fee 23-27-9 (2-3-4)				
Site Position:		Northing:	478,939.79 usft	Latitude:	32.3166527
From:	Map	Easting:	540,778.74 usft	Longitude:	-104.2013311
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.07 °

Well:	No. 2H				
Well Position	+N/-S	0.00 usft	Northing:	478,939.79 usft	Latitude: 32.316652
	+E/-W	0.00 usft	Easting:	540,778.74 usft	Longitude: -104.201331
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,159.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	10/9/2017	7.57	60.07	48,038.30

Design:	Plan #4			
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	88.25

Survey Tool Program		Date	10/18/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	5,000.00	Plan #4 (OH)	MWD+IFR1	OWSG MWD + IFR1	
5,000.00	10,000.00	Plan #4 (OH)	MWD+IFR1	OWSG MWD + IFR1	
10,000.00	14,330.83	Plan #4 (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
[CypressFee#2H]FTP - [CypressFee#2H]LTP/BHL - [CypressFee#2H]KOP									
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

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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	
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	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,198.86	0.00	0.00	4,198.86	0.00	0.00	0.00	0.00	0.00	0.00	
4,200.00	0.01	205.91	4,200.00	0.00	0.00	0.00	1.00	1.00	0.00	
4,300.00	1.01	205.91	4,299.99	-0.80	-0.39	-0.41	1.00	1.00	0.00	
4,400.00	2.01	205.91	4,399.96	-3.18	-1.54	-1.64	1.00	1.00	0.00	
4,500.00	3.01	205.91	4,499.86	-7.12	-3.46	-3.67	1.00	1.00	0.00	
4,600.00	4.01	205.91	4,599.67	-12.63	-6.13	-6.52	1.00	1.00	0.00	



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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)
4,700.00	5.01	205.91	4,699.36	-19.70	-9.57	-10.17	1.00	1.00	0.00
4,800.00	6.01	205.91	4,798.90	-28.34	-13.77	-14.63	1.00	1.00	0.00
4,900.00	7.01	205.91	4,898.25	-38.54	-18.72	-19.89	1.00	1.00	0.00
5,000.00	8.01	205.91	4,997.39	-50.30	-24.43	-25.96	1.00	1.00	0.00
5,100.00	9.01	205.91	5,096.29	-63.61	-30.90	-32.83	1.00	1.00	0.00
5,200.00	10.01	205.91	5,194.91	-78.47	-38.12	-40.50	1.00	1.00	0.00
5,300.00	11.01	205.91	5,293.23	-94.88	-46.09	-48.97	1.00	1.00	0.00
5,400.00	12.01	205.91	5,391.22	-112.83	-54.81	-58.23	1.00	1.00	0.00
5,500.00	13.01	205.91	5,488.85	-132.32	-64.28	-68.29	1.00	1.00	0.00
5,600.00	14.01	205.91	5,586.08	-153.33	-74.49	-79.14	1.00	1.00	0.00
5,700.00	15.01	205.91	5,682.89	-175.87	-85.44	-90.77	1.00	1.00	0.00
5,798.86	16.00	205.91	5,778.15	-199.64	-96.99	-103.04	1.00	1.00	0.00
5,800.00	16.00	205.91	5,779.24	-199.92	-97.12	-103.18	0.00	0.00	0.00
5,900.00	16.00	205.91	5,875.37	-224.72	-109.17	-115.98	0.00	0.00	0.00
6,000.00	16.00	205.91	5,971.49	-249.51	-121.21	-128.78	0.00	0.00	0.00
6,100.00	16.00	205.91	6,067.62	-274.30	-133.26	-141.57	0.00	0.00	0.00
6,200.00	16.00	205.91	6,163.75	-299.10	-145.30	-154.37	0.00	0.00	0.00
6,300.00	16.00	205.91	6,259.87	-323.89	-157.35	-167.17	0.00	0.00	0.00
6,400.00	16.00	205.91	6,356.00	-348.68	-169.39	-179.96	0.00	0.00	0.00
6,500.00	16.00	205.91	6,452.12	-373.47	-181.44	-192.76	0.00	0.00	0.00
6,600.00	16.00	205.91	6,548.25	-398.27	-193.48	-205.55	0.00	0.00	0.00
6,700.00	16.00	205.91	6,644.38	-423.06	-205.53	-218.35	0.00	0.00	0.00
6,800.00	16.00	205.91	6,740.50	-447.85	-217.57	-231.15	0.00	0.00	0.00
6,900.00	16.00	205.91	6,836.63	-472.65	-229.62	-243.94	0.00	0.00	0.00
7,000.00	16.00	205.91	6,932.76	-497.44	-241.66	-256.74	0.00	0.00	0.00
7,100.00	16.00	205.91	7,028.88	-522.23	-253.70	-269.53	0.00	0.00	0.00
7,200.00	16.00	205.91	7,125.01	-547.02	-265.75	-282.33	0.00	0.00	0.00
7,300.00	16.00	205.91	7,221.13	-571.82	-277.79	-295.13	0.00	0.00	0.00
7,400.00	16.00	205.91	7,317.26	-596.61	-289.84	-307.92	0.00	0.00	0.00
7,500.00	16.00	205.91	7,413.39	-621.40	-301.88	-320.72	0.00	0.00	0.00
7,600.00	16.00	205.91	7,509.51	-646.20	-313.93	-333.51	0.00	0.00	0.00
7,700.00	16.00	205.91	7,605.64	-670.99	-325.97	-346.31	0.00	0.00	0.00
7,800.00	16.00	205.91	7,701.77	-695.78	-338.02	-359.11	0.00	0.00	0.00
7,900.00	16.00	205.91	7,797.89	-720.57	-350.06	-371.90	0.00	0.00	0.00
8,000.00	16.00	205.91	7,894.02	-745.37	-362.11	-384.70	0.00	0.00	0.00
8,100.00	16.00	205.91	7,990.14	-770.16	-374.15	-397.50	0.00	0.00	0.00
8,200.00	16.00	205.91	8,086.27	-794.95	-386.19	-410.29	0.00	0.00	0.00
8,300.00	16.00	205.91	8,182.40	-819.75	-398.24	-423.09	0.00	0.00	0.00
8,400.00	16.00	205.91	8,278.52	-844.54	-410.28	-435.88	0.00	0.00	0.00
8,419.82	16.00	205.91	8,297.57	-849.45	-412.67	-438.42	0.00	0.00	0.00
8,500.00	13.59	205.91	8,375.09	-867.87	-421.62	-447.93	3.00	-3.00	0.00
8,600.00	10.59	205.91	8,472.86	-886.72	-430.77	-457.65	3.00	-3.00	0.00



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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	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	7.59	205.91	8,571.59	-900.93	-437.68	-464.99	3.00	-3.00	0.00
8,800.00	4.59	205.91	8,671.01	-910.48	-442.32	-469.92	3.00	-3.00	0.00
8,900.00	1.59	205.91	8,770.86	-915.33	-444.68	-472.42	3.00	-3.00	0.00
8,953.15	0.00	0.00	8,824.00	-916.00	-445.00	-472.77	3.00	-3.00	0.00
9,000.00	0.00	0.00	8,870.85	-916.00	-445.00	-472.77	0.00	0.00	0.00
9,100.00	0.00	0.00	8,970.85	-916.00	-445.00	-472.77	0.00	0.00	0.00
9,153.15	0.00	0.00	9,024.00	-916.00	-445.00	-472.77	0.00	0.00	0.00
[CypressFee#2H]NewKOP									
9,200.00	4.68	88.25	9,070.80	-915.94	-443.09	-470.85	10.00	10.00	0.00
9,250.00	9.68	88.25	9,120.39	-915.75	-436.84	-464.60	10.00	10.00	0.00
9,300.00	14.68	88.25	9,169.25	-915.43	-426.29	-454.05	10.00	10.00	0.00
9,350.00	19.68	88.25	9,217.00	-914.98	-411.53	-439.28	10.00	10.00	0.00
9,400.00	24.68	88.25	9,263.28	-914.40	-392.67	-420.41	10.00	10.00	0.00
9,450.00	29.68	88.25	9,307.75	-913.70	-369.84	-397.57	10.00	10.00	0.00
9,500.00	34.68	88.25	9,350.05	-912.88	-343.23	-370.95	10.00	10.00	0.00
9,550.00	39.68	88.25	9,389.87	-911.96	-313.03	-340.74	10.00	10.00	0.00
9,600.00	44.68	88.25	9,426.91	-910.93	-279.48	-307.17	10.00	10.00	0.00
9,650.00	49.68	88.25	9,460.88	-909.81	-242.83	-270.51	10.00	10.00	0.00
9,700.00	54.68	88.25	9,491.53	-908.60	-203.37	-231.02	10.00	10.00	0.00
9,740.68	58.75	88.25	9,513.85	-907.56	-169.38	-197.02	10.00	10.00	0.00
[CypressFee#2H]NewFTP									
9,750.00	59.68	88.25	9,518.61	-907.32	-161.38	-189.01	10.00	10.00	0.00
9,800.00	64.68	88.25	9,541.94	-905.96	-117.19	-144.80	10.00	10.00	0.00
9,850.00	69.68	88.25	9,561.32	-904.55	-71.14	-98.73	10.00	10.00	0.00
9,900.00	74.68	88.25	9,576.61	-903.10	-23.57	-51.14	10.00	10.00	0.00
9,950.00	79.68	88.25	9,587.70	-901.61	25.14	-2.40	10.00	10.00	0.00
10,000.00	84.68	88.25	9,594.49	-900.09	74.64	47.12	10.00	10.00	0.00
10,036.18	88.30	88.25	9,596.71	-898.98	110.73	83.23	10.00	10.00	0.00
10,100.00	88.30	88.25	9,598.60	-897.03	174.49	147.02	0.00	0.00	0.00
10,200.00	88.30	88.25	9,601.56	-893.97	274.40	246.97	0.00	0.00	0.00
10,300.00	88.30	88.25	9,604.52	-890.91	374.31	346.93	0.00	0.00	0.00
10,400.00	88.30	88.25	9,607.48	-887.86	474.22	446.88	0.00	0.00	0.00
10,500.00	88.30	88.25	9,610.44	-884.80	574.13	546.84	0.00	0.00	0.00
10,600.00	88.30	88.25	9,613.40	-881.74	674.04	646.80	0.00	0.00	0.00
10,700.00	88.30	88.25	9,616.36	-878.68	773.95	746.75	0.00	0.00	0.00
10,800.00	88.30	88.25	9,619.32	-875.62	873.86	846.71	0.00	0.00	0.00
10,900.00	88.30	88.25	9,622.29	-872.56	973.77	946.67	0.00	0.00	0.00
11,000.00	88.30	88.25	9,625.25	-869.50	1,073.68	1,046.62	0.00	0.00	0.00
11,100.00	88.30	88.25	9,628.21	-866.44	1,173.58	1,146.58	0.00	0.00	0.00
11,200.00	88.30	88.25	9,631.17	-863.38	1,273.49	1,246.53	0.00	0.00	0.00
11,300.00	88.30	88.25	9,634.13	-860.32	1,373.40	1,346.49	0.00	0.00	0.00
11,400.00	88.30	88.25	9,637.09	-857.27	1,473.31	1,446.45	0.00	0.00	0.00

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Project:	Eddy County, NM	TVD Reference:	Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
Site:	Cypress Fee 23-27-9 (2-3-4)	MD Reference:	Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
Well:	No. 2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #4	Database:	WellPlanner1

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
11,500.00	88.30	88.25	9,640.05	-854.21	1,573.22	1,546.40	0.00	0.00	0.00
11,600.00	88.30	88.25	9,643.01	-851.15	1,673.13	1,646.36	0.00	0.00	0.00
11,700.00	88.30	88.25	9,645.98	-848.09	1,773.04	1,746.31	0.00	0.00	0.00
11,800.00	88.30	88.25	9,648.94	-845.03	1,872.95	1,846.27	0.00	0.00	0.00
11,900.00	88.30	88.25	9,651.90	-841.97	1,972.86	1,946.23	0.00	0.00	0.00
12,000.00	88.30	88.25	9,654.86	-838.91	2,072.77	2,046.18	0.00	0.00	0.00
12,100.00	88.30	88.25	9,657.82	-835.85	2,172.68	2,146.14	0.00	0.00	0.00
12,200.00	88.30	88.25	9,660.78	-832.79	2,272.59	2,246.10	0.00	0.00	0.00
12,300.00	88.30	88.25	9,663.74	-829.73	2,372.50	2,346.05	0.00	0.00	0.00
12,400.00	88.30	88.25	9,666.70	-826.67	2,472.41	2,446.01	0.00	0.00	0.00
12,500.00	88.30	88.25	9,669.67	-823.62	2,572.32	2,545.96	0.00	0.00	0.00
12,600.00	88.30	88.25	9,672.63	-820.56	2,672.22	2,645.92	0.00	0.00	0.00
12,700.00	88.30	88.25	9,675.59	-817.50	2,772.13	2,745.88	0.00	0.00	0.00
12,800.00	88.30	88.25	9,678.55	-814.44	2,872.04	2,845.83	0.00	0.00	0.00
12,900.00	88.30	88.25	9,681.51	-811.38	2,971.95	2,945.79	0.00	0.00	0.00
13,000.00	88.30	88.25	9,684.47	-808.32	3,071.86	3,045.74	0.00	0.00	0.00
13,100.00	88.30	88.25	9,687.43	-805.26	3,171.77	3,145.70	0.00	0.00	0.00
13,200.00	88.30	88.25	9,690.39	-802.20	3,271.68	3,245.66	0.00	0.00	0.00
13,300.00	88.30	88.25	9,693.36	-799.14	3,371.59	3,345.61	0.00	0.00	0.00
13,400.00	88.30	88.25	9,696.32	-796.08	3,471.50	3,445.57	0.00	0.00	0.00
13,500.00	88.30	88.25	9,699.28	-793.03	3,571.41	3,545.53	0.00	0.00	0.00
13,600.00	88.30	88.25	9,702.24	-789.97	3,671.32	3,645.48	0.00	0.00	0.00
13,700.00	88.30	88.25	9,705.20	-786.91	3,771.23	3,745.44	0.00	0.00	0.00
13,800.00	88.30	88.25	9,708.16	-783.85	3,871.14	3,845.39	0.00	0.00	0.00
13,900.00	88.30	88.25	9,711.12	-780.79	3,971.05	3,945.35	0.00	0.00	0.00
14,000.00	88.30	88.25	9,714.08	-777.73	4,070.96	4,045.31	0.00	0.00	0.00
14,100.00	88.30	88.25	9,717.04	-774.67	4,170.86	4,145.26	0.00	0.00	0.00
14,200.00	88.30	88.25	9,720.01	-771.61	4,270.77	4,245.22	0.00	0.00	0.00
14,300.00	88.30	88.25	9,722.97	-768.55	4,370.68	4,345.17	0.00	0.00	0.00
14,330.83	88.30	88.25	9,723.88	-767.61	4,401.49	4,376.00	0.00	0.00	0.00

[CypressFee#2H]NewLTP/BHL



Pro Directional Survey Report



Company: Marathon Oil
Project: Eddy County, NM
Site: Cypress Fee 23-27-9 (2-3-4)
Well: No. 2H
Wellbore: OH
Design: Plan #4

Local Co-ordinate Reference: Well No. 2H
TVD Reference: Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
MD Reference: Well @ 3185.50usft (GL: 3159' + KB: 26.5' (H&P480))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[CypressFee#2H]FTP - plan misses target center by 1031.26usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-1,008.94	-213.38	477,930.85	540,565.36	32.3138799	-104.2020259
[CypressFee#2H]LTP/Bt - plan misses target center by 4489.13usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	-867.61	4,404.49	478,072.18	545,183.23	32.3142520	-104.1870775
[CypressFee#2H]KOP - plan misses target center by 1107.98usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-1,016.00	-442.00	477,923.79	540,336.74	32.3138613	-104.2027659
[CypressFee#2H]NewKc - plan hits target center - Point	0.00	0.00	9,024.00	-916.00	-445.00	478,023.79	540,333.74	32.3141362	-104.2027752
[CypressFee#2H]NewFt - plan misses target center by 86.76usft at 9740.68usft MD (9513.85 TVD, -907.56 N, -169.38 E) - Point	0.00	0.00	9,586.76	-908.94	-216.38	478,030.85	540,562.36	32.3141548	-104.2020352
[CypressFee#2H]NewLT - plan hits target center - Point	0.00	0.00	9,723.88	-767.61	4,401.49	478,172.18	545,180.23	32.3145269	-104.1870868

Checked By: _____ Approved By: _____ Date: _____