



Pro Directional

JUL 03 2018

Survey Report

30-015-45091

DISTRICT II-ARTESIA O.C.D.



Company: Marathon Oil
Project: Eddy County, NM

Site: Rick Deckard State 25-28-4 (12-14-15-18)

Well: WXY #18H

Wellbore: OH

Design: Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well WXY #18H

Well @ 2988.00usft (GL: 2963' + KB: 25' (Prec594))

Well @ 2988.00usft (GL: 2963' + KB: 25' (Prec594))

Grid

Minimum Curvature

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 Rick Deckard State 25-28-4 (12-14-15-18)

Site Position:	Map	Northing:	419,495.00 usft	Latitude:	32.153070
From:		Easting:	576,032.96 usft	Longitude:	-104.087653
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well WXY #18H

Well Position	+N/-S	0.00 usft	Northing:	419,495.00 usft	Latitude:	32.153070
	+E/-W	0.00 usft	Easting:	576,093.01 usft	Longitude:	-104.087459
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,963.00 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	6/7/2018	7.20	59.90	47,973.90

Design Prelim Plan B

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	359.85

Survey Tool Program Date 6/25/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	1,850.00	Prelim Plan B (OH)	MWD+IFR1	OWSG MWD + IFR1
1,850.00	5,400.00	Prelim Plan B (OH)	MWD+IFR1	OWSG MWD + IFR1
5,400.00	10,000.00	Prelim Plan B (OH)	MWD+IFR1	OWSG MWD + IFR1
10,000.00	14,343.71	Prelim Plan B (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
[RickDeckard#18H]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: Rick Deckard State 25-28-4 (12-14-15-18)
Well: WXY #18H
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Design: Prelim Plan B

Local Co-ordinate Reference: Well WXY #18H
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MD Reference: Well @ 2988.00usft (GL: 2963' + 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	0.00	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	2.00	146.09	1,599.98	-1.45	0.97	-1.45	2.00	2.00	0.00
1,700.00	4.00	146.09	1,699.84	-5.79	3.89	-5.80	2.00	2.00	0.00
1,800.00	6.00	146.09	1,799.45	-13.02	8.76	-13.05	2.00	2.00	0.00
1,900.00	8.00	146.09	1,898.70	-23.14	15.55	-23.18	2.00	2.00	0.00
2,000.00	10.00	146.09	1,997.47	-36.12	24.28	-36.18	2.00	2.00	0.00
2,100.00	12.00	146.09	2,095.62	-51.96	34.92	-52.05	2.00	2.00	0.00
2,200.00	12.00	146.09	2,193.44	-69.21	46.52	-69.33	0.00	0.00	0.00
2,300.00	12.00	146.09	2,291.25	-86.47	58.12	-86.62	0.00	0.00	0.00
2,400.00	12.00	146.09	2,389.07	-103.72	69.72	-103.90	0.00	0.00	0.00
2,500.00	12.00	146.09	2,486.88	-120.98	81.32	-121.19	0.00	0.00	0.00
2,600.00	12.00	146.09	2,584.70	-138.23	92.92	-138.47	0.00	0.00	0.00
2,700.00	12.00	146.09	2,682.51	-155.49	104.52	-155.76	0.00	0.00	0.00
2,800.00	12.00	146.09	2,780.33	-172.74	116.12	-173.04	0.00	0.00	0.00
2,900.00	12.00	146.09	2,878.14	-190.00	127.72	-190.33	0.00	0.00	0.00
3,000.00	12.00	146.09	2,975.96	-207.25	139.32	-207.61	0.00	0.00	0.00
3,100.00	12.00	146.09	3,073.77	-224.51	150.91	-224.90	0.00	0.00	0.00
3,200.00	12.00	146.09	3,171.59	-241.76	162.51	-242.19	0.00	0.00	0.00
3,300.00	12.00	146.09	3,269.40	-259.02	174.11	-259.47	0.00	0.00	0.00
3,400.00	12.00	146.09	3,367.22	-276.27	185.71	-276.76	0.00	0.00	0.00
3,500.00	12.00	146.09	3,465.03	-293.53	197.31	-294.04	0.00	0.00	0.00
3,600.00	12.00	146.09	3,562.84	-310.78	208.91	-311.33	0.00	0.00	0.00
3,700.00	12.00	146.09	3,660.66	-328.04	220.51	-328.61	0.00	0.00	0.00
3,800.00	12.00	146.09	3,758.47	-345.29	232.11	-345.90	0.00	0.00	0.00
3,900.00	12.00	146.09	3,856.29	-362.55	243.71	-363.18	0.00	0.00	0.00
3,937.67	12.00	146.09	3,893.13	-369.04	248.08	-369.69	0.00	0.00	0.00
4,000.00	10.75	146.09	3,954.24	-379.25	254.93	-379.92	2.00	-2.00	0.00
4,100.00	8.75	146.09	4,052.79	-393.31	264.39	-394.00	2.00	-2.00	0.00
4,200.00	6.75	146.09	4,151.87	-404.50	271.91	-405.21	2.00	-2.00	0.00
4,300.00	4.75	146.09	4,251.36	-412.82	277.50	-413.55	2.00	-2.00	0.00
4,400.00	2.75	146.09	4,351.14	-418.26	281.16	-418.99	2.00	-2.00	0.00
4,500.00	0.75	146.09	4,451.09	-420.79	282.86	-421.53	2.00	-2.00	0.00

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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)
4,537.67	0.00	0.00	4,488.75	-421.00	283.00	-421.74	2.00	-2.00	0.00
4,600.00	0.00	0.00	4,551.09	-421.00	283.00	-421.74	0.00	0.00	0.00
4,700.00	0.00	0.00	4,651.09	-421.00	283.00	-421.74	0.00	0.00	0.00
4,800.00	0.00	0.00	4,751.09	-421.00	283.00	-421.74	0.00	0.00	0.00
4,900.00	0.00	0.00	4,851.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,000.00	0.00	0.00	4,951.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,100.00	0.00	0.00	5,051.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,200.00	0.00	0.00	5,151.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,300.00	0.00	0.00	5,251.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,400.00	0.00	0.00	5,351.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,500.00	0.00	0.00	5,451.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,600.00	0.00	0.00	5,551.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,700.00	0.00	0.00	5,651.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,800.00	0.00	0.00	5,751.09	-421.00	283.00	-421.74	0.00	0.00	0.00
5,900.00	0.00	0.00	5,851.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,000.00	0.00	0.00	5,951.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,100.00	0.00	0.00	6,051.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,200.00	0.00	0.00	6,151.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,300.00	0.00	0.00	6,251.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,400.00	0.00	0.00	6,351.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,500.00	0.00	0.00	6,451.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,600.00	0.00	0.00	6,551.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,700.00	0.00	0.00	6,651.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,800.00	0.00	0.00	6,751.09	-421.00	283.00	-421.74	0.00	0.00	0.00
6,900.00	0.00	0.00	6,851.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,000.00	0.00	0.00	6,951.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,100.00	0.00	0.00	7,051.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,200.00	0.00	0.00	7,151.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,300.00	0.00	0.00	7,251.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,400.00	0.00	0.00	7,351.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,500.00	0.00	0.00	7,451.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,600.00	0.00	0.00	7,551.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,700.00	0.00	0.00	7,651.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,800.00	0.00	0.00	7,751.09	-421.00	283.00	-421.74	0.00	0.00	0.00
7,900.00	0.00	0.00	7,851.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,000.00	0.00	0.00	7,951.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,100.00	0.00	0.00	8,051.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,200.00	0.00	0.00	8,151.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,300.00	0.00	0.00	8,251.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,400.00	0.00	0.00	8,351.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,500.00	0.00	0.00	8,451.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,600.00	0.00	0.00	8,551.09	-421.00	283.00	-421.74	0.00	0.00	0.00

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8,700.00	0.00	0.00	8,651.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,800.00	0.00	0.00	8,751.09	-421.00	283.00	-421.74	0.00	0.00	0.00
8,900.00	0.00	0.00	8,851.09	-421.00	283.00	-421.74	0.00	0.00	0.00
9,000.00	0.00	0.00	8,951.09	-421.00	283.00	-421.74	0.00	0.00	0.00
9,067.91	0.00	0.00	9,019.00	-421.00	283.00	-421.74	0.00	0.00	0.00
[RickDeckard#18H]KOP									
9,100.00	3.53	359.85	9,051.07	-420.01	283.00	-420.75	11.00	11.00	0.00
9,150.00	9.03	359.85	9,100.75	-414.54	282.98	-415.28	11.00	11.00	0.00
9,200.00	14.53	359.85	9,149.68	-404.34	282.96	-405.08	11.00	11.00	0.00
9,250.00	20.03	359.85	9,197.40	-389.50	282.92	-390.23	11.00	11.00	0.00
9,300.00	25.53	359.85	9,243.49	-370.14	282.87	-370.88	11.00	11.00	0.00
9,350.00	31.03	359.85	9,287.50	-346.46	282.80	-347.20	11.00	11.00	0.00
9,400.00	36.53	359.85	9,329.04	-318.67	282.73	-319.41	11.00	11.00	0.00
9,450.00	42.03	359.85	9,367.73	-287.03	282.65	-287.77	11.00	11.00	0.00
9,500.00	47.53	359.85	9,403.21	-251.83	282.55	-252.56	11.00	11.00	0.00
9,550.00	53.03	359.85	9,435.15	-213.38	282.45	-214.12	11.00	11.00	0.00
9,600.00	58.53	359.85	9,463.26	-172.05	282.34	-172.79	11.00	11.00	0.00
9,650.00	64.03	359.85	9,487.27	-128.22	282.22	-128.96	11.00	11.00	0.00
9,700.00	69.53	359.85	9,506.98	-82.29	282.10	-83.03	11.00	11.00	0.00
9,750.00	75.03	359.85	9,522.19	-34.68	281.98	-35.42	11.00	11.00	0.00
9,800.00	80.53	359.85	9,532.77	14.17	281.85	13.43	11.00	11.00	0.00
9,850.00	86.03	359.85	9,538.62	63.80	281.72	63.07	11.00	11.00	0.00
9,886.08	90.00	359.85	9,539.87	99.85	281.62	99.12	11.00	11.00	0.00
9,900.00	90.00	359.85	9,539.87	113.78	281.58	113.04	0.00	0.00	0.00
10,000.00	90.00	359.85	9,539.87	213.78	281.32	213.04	0.00	0.00	0.00
10,100.00	90.00	359.85	9,539.88	313.78	281.05	313.04	0.00	0.00	0.00
10,200.00	90.00	359.85	9,539.88	413.77	280.79	413.04	0.00	0.00	0.00
10,300.00	90.00	359.85	9,539.88	513.77	280.53	513.04	0.00	0.00	0.00
10,400.00	90.00	359.85	9,539.89	613.77	280.26	613.04	0.00	0.00	0.00
10,500.00	90.00	359.85	9,539.89	713.77	280.00	713.04	0.00	0.00	0.00
10,600.00	90.00	359.85	9,539.89	813.77	279.73	813.04	0.00	0.00	0.00
10,700.00	90.00	359.85	9,539.89	913.77	279.47	913.04	0.00	0.00	0.00
10,800.00	90.00	359.85	9,539.90	1,013.77	279.20	1,013.04	0.00	0.00	0.00
10,900.00	90.00	359.85	9,539.90	1,113.77	278.94	1,113.04	0.00	0.00	0.00
11,000.00	90.00	359.85	9,539.90	1,213.77	278.67	1,213.04	0.00	0.00	0.00
11,100.00	90.00	359.85	9,539.91	1,313.77	278.41	1,313.04	0.00	0.00	0.00
11,200.00	90.00	359.85	9,539.91	1,413.77	278.14	1,413.04	0.00	0.00	0.00
11,300.00	90.00	359.85	9,539.91	1,513.77	277.88	1,513.04	0.00	0.00	0.00
11,400.00	90.00	359.85	9,539.92	1,613.77	277.61	1,613.04	0.00	0.00	0.00
11,500.00	90.00	359.85	9,539.92	1,713.77	277.35	1,713.04	0.00	0.00	0.00
11,600.00	90.00	359.85	9,539.92	1,813.77	277.08	1,813.04	0.00	0.00	0.00
11,700.00	90.00	359.85	9,539.92	1,913.77	276.82	1,913.04	0.00	0.00	0.00

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11,800.00	90.00	359.85	9,539.93	2,013.77	276.55	2,013.04	0.00	0.00	0.00
11,900.00	90.00	359.85	9,539.93	2,113.77	276.29	2,113.04	0.00	0.00	0.00
12,000.00	90.00	359.85	9,539.93	2,213.77	276.03	2,213.04	0.00	0.00	0.00
12,100.00	90.00	359.85	9,539.94	2,313.77	275.76	2,313.04	0.00	0.00	0.00
12,200.00	90.00	359.85	9,539.94	2,413.77	275.50	2,413.04	0.00	0.00	0.00
12,300.00	90.00	359.85	9,539.94	2,513.77	275.23	2,513.04	0.00	0.00	0.00
12,400.00	90.00	359.85	9,539.94	2,613.77	274.97	2,613.04	0.00	0.00	0.00
12,500.00	90.00	359.85	9,539.95	2,713.77	274.70	2,713.04	0.00	0.00	0.00
12,600.00	90.00	359.85	9,539.95	2,813.77	274.44	2,813.04	0.00	0.00	0.00
12,700.00	90.00	359.85	9,539.95	2,913.77	274.17	2,913.04	0.00	0.00	0.00
12,800.00	90.00	359.85	9,539.96	3,013.77	273.91	3,013.04	0.00	0.00	0.00
12,900.00	90.00	359.85	9,539.96	3,113.77	273.64	3,113.04	0.00	0.00	0.00
13,000.00	90.00	359.85	9,539.96	3,213.77	273.38	3,213.04	0.00	0.00	0.00
13,100.00	90.00	359.85	9,539.97	3,313.76	273.11	3,313.04	0.00	0.00	0.00
13,200.00	90.00	359.85	9,539.97	3,413.76	272.85	3,413.04	0.00	0.00	0.00
13,300.00	90.00	359.85	9,539.97	3,513.76	272.58	3,513.04	0.00	0.00	0.00
13,400.00	90.00	359.85	9,539.97	3,613.76	272.32	3,613.04	0.00	0.00	0.00
13,500.00	90.00	359.85	9,539.98	3,713.76	272.05	3,713.04	0.00	0.00	0.00
13,600.00	90.00	359.85	9,539.98	3,813.76	271.79	3,813.04	0.00	0.00	0.00
13,700.00	90.00	359.85	9,539.98	3,913.76	271.52	3,913.04	0.00	0.00	0.00
13,800.00	90.00	359.85	9,539.99	4,013.76	271.26	4,013.04	0.00	0.00	0.00
13,900.00	90.00	359.85	9,539.99	4,113.76	271.00	4,113.04	0.00	0.00	0.00
14,000.00	90.00	359.85	9,539.99	4,213.76	270.73	4,213.04	0.00	0.00	0.00
14,100.00	90.00	359.85	9,539.99	4,313.76	270.47	4,313.04	0.00	0.00	0.00
14,200.00	90.00	359.85	9,540.00	4,413.76	270.20	4,413.04	0.00	0.00	0.00
14,298.71	90.00	359.85	9,540.00	4,512.47	269.94	4,511.75	0.00	0.00	0.00
[RickDeckard#18H]LTP/BHL									
14,300.00	90.00	359.85	9,540.00	4,513.76	269.94	4,513.04	0.00	0.00	0.00
14,343.71	90.00	359.85	9,540.00	4,557.47	269.82	4,556.75	0.00	0.00	0.00



Pro Directional
Survey Report



Company: Marathon Oil
Project: Eddy County, NM

Site: Rick Deckard State 25-28-4 (12-14-15-18)

Well: WXY #18H

Wellbore: OH

Design: Prelim Plan B

Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Database:

Well WXY #18H

Well @ 2988.00usft (GL: 2963' + KB: 25'
(Prec594))

Well @ 2988.00usft (GL: 2963' + KB: 25'
(Prec594))

Grid

Minimum Curvature

WellPlanner1

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
[RickDeckard#18H]FTP - plan misses target center by 341.91usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.01	0.00	-192.73	282.41	419,302.27	576,375.42	32.152538	-104.086548
[RickDeckard#18H]KOP - plan hits target center - Point	0.00	0.00	9,019.00	-421.00	283.00	419,074.00	576,376.01	32.151911	-104.086548
[RickDeckard#18H]LTP/I - plan hits target center - Point	0.00	0.00	9,540.00	4,512.47	269.94	424,007.47	576,362.95	32.165473	-104.086553

Checked By: _____ Approved By: _____ Date: _____



Marathon Oil
Eddy County, NM
Rick Deckard State 25-28-4 (12-14-15-18)
WXY #18H
Prelim Plan B
GL: 2963' + KB: 25' (Prec594)

US State Plane 1927 (E nad solution)
NAD 1983 (NADCON CONUS)
Datum: 1983
New Mexico East 3001
Mean Sea Level

RKB Elevation: Well @ 2968.0008 (GL: 2963' + KB: 25' (Prec594))

N-S	E-W	Northing	Easting	Latitude	Longitude	Spot
0.00	0.00	419495.00	576093.01	32.153070	-104.087459	

SECTION DETAILS

Sec	MD	Inc	Arl	TVD	N-S	E-W	Diag	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	2100.00	12.00	146.09	2088.82	-31.96	34.92	2.00	-52.65
4	2937.66	12.00	146.09	3893.13	-369.04	248.08	0.00	-369.89
5	4537.66	0.00	0.00	4488.75	-421.00	283.00	2.00	-421.74
6	8067.91	0.00	0.00	8018.00	-421.00	283.00	0.00	-421.74
7	9886.08	90.00	359.85	9539.87	99.85	281.62	11.00	99.12
8	14298.71	90.00	359.85	9540.00	4512.47	269.94	0.00	4511.75
9	14343.71	90.00	359.85	9540.00	4557.47	269.94	0.00	4558.75

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	N-S	E-W	Northing	Easting
[RickDeckard#18H]FTP	0.00	-192.73	282.41	419302.27	576375.42
[RickDeckard#18H]KOP	9019.00	-421.00	283.00	419074.00	576376.01
[RickDeckard#18H]TP/BHL	9540.00	4512.47	269.94	424007.47	576382.99

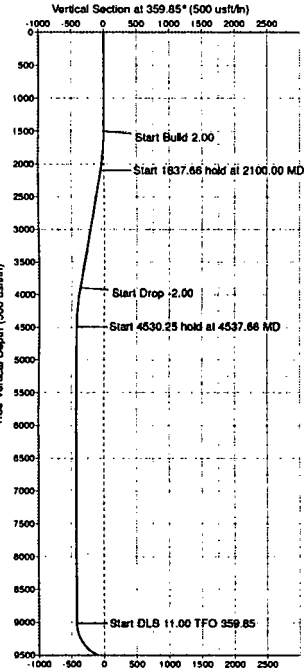


Azimuth to Grid North
True North: 0.13°
Magnetic North: 7.07°
Magnetic Field
Strength: 47873 Gauss
Dip Angle: 58.90°
Date: 6/7/2018
Model: HODM

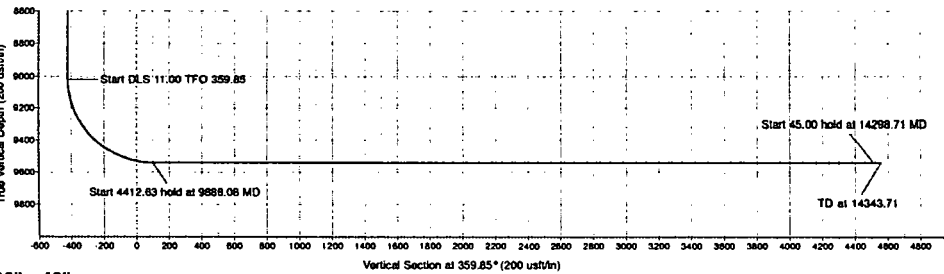
Azimuth Corrections

Total Magnetic Cor. (M to G): 7.07°

Declination (M to T): 7.20° East



Target Line: 9540' TVD @ 0° VS: 90° INC



36" x 48"

