

Company: Marathon Oil
Project: Eddy County, NM

Local Co-ordinate Reference: Well WXY #12H
TVD Reference: Well @ 2988.00usft (GL: 2963' + KB: 25' (Prec594))
MD Reference: Well @ 2988.00usft (GL: 2963' + KB: 25' (Prec594))
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: WellPlanner1

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

Well: WXY #12H

Wellbore: OH

Design: Prelim Plan B

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Project: Eddy County, NM

Map System: US State Plane 1927 (Exact solution)

System Datum:

Mean Sea Level

Geo Datum: NAD 1927 (NADCON CONUS)

DISTRICT II-ARTESIA O.C.D.

Map Zone: New Mexico East 3001

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

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

Well: WXY #12H

Well Position	+N/-S	0.00 usft	Northing:	419,495.00 usft	Latitude:	32.153070
	+E/-W	0.00 usft	Easting:	576,032.96 usft	Longitude:	-104.087653
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	359.96

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	14,368.01	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#12H]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

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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)
11,800.00	90.00	359.96	9,519.93	1,986.48	-1,002.84	1,987.18	0.00	0.00	0.00
11,900.00	90.00	359.96	9,519.93	2,086.48	-1,002.92	2,087.18	0.00	0.00	0.00
12,000.00	90.00	359.96	9,519.93	2,186.48	-1,002.99	2,187.18	0.00	0.00	0.00
12,100.00	90.00	359.96	9,519.93	2,286.48	-1,003.07	2,287.18	0.00	0.00	0.00
12,200.00	90.00	359.96	9,519.94	2,386.48	-1,003.15	2,387.18	0.00	0.00	0.00
12,300.00	90.00	359.96	9,519.94	2,486.48	-1,003.22	2,487.18	0.00	0.00	0.00
12,400.00	90.00	359.96	9,519.94	2,586.48	-1,003.30	2,587.18	0.00	0.00	0.00
12,500.00	90.00	359.96	9,519.95	2,686.48	-1,003.38	2,687.18	0.00	0.00	0.00
12,600.00	90.00	359.96	9,519.95	2,786.48	-1,003.46	2,787.18	0.00	0.00	0.00
12,700.00	90.00	359.96	9,519.95	2,886.48	-1,003.53	2,887.18	0.00	0.00	0.00
12,800.00	90.00	359.96	9,519.96	2,986.48	-1,003.61	2,987.18	0.00	0.00	0.00
12,900.00	90.00	359.96	9,519.96	3,086.48	-1,003.69	3,087.18	0.00	0.00	0.00
13,000.00	90.00	359.96	9,519.96	3,186.48	-1,003.76	3,187.18	0.00	0.00	0.00
13,100.00	90.00	359.96	9,519.96	3,286.48	-1,003.84	3,287.18	0.00	0.00	0.00
13,200.00	90.00	359.96	9,519.97	3,386.48	-1,003.92	3,387.18	0.00	0.00	0.00
13,300.00	90.00	359.96	9,519.97	3,486.48	-1,003.99	3,487.18	0.00	0.00	0.00
13,400.00	90.00	359.96	9,519.97	3,586.48	-1,004.07	3,587.18	0.00	0.00	0.00
13,500.00	90.00	359.96	9,519.98	3,686.48	-1,004.15	3,687.18	0.00	0.00	0.00
13,600.00	90.00	359.96	9,519.98	3,786.48	-1,004.22	3,787.18	0.00	0.00	0.00
13,700.00	90.00	359.96	9,519.98	3,886.48	-1,004.30	3,887.18	0.00	0.00	0.00
13,800.00	90.00	359.96	9,519.98	3,986.48	-1,004.38	3,987.18	0.00	0.00	0.00
13,900.00	90.00	359.96	9,519.99	4,086.48	-1,004.45	4,087.18	0.00	0.00	0.00
14,000.00	90.00	359.96	9,519.99	4,186.48	-1,004.53	4,187.18	0.00	0.00	0.00
14,100.00	90.00	359.96	9,519.99	4,286.48	-1,004.61	4,287.18	0.00	0.00	0.00
14,200.00	90.00	359.96	9,520.00	4,386.48	-1,004.69	4,387.18	0.00	0.00	0.00
14,300.00	90.00	359.96	9,520.00	4,486.48	-1,004.76	4,487.18	0.00	0.00	0.00
14,323.01	90.00	359.96	9,520.00	4,509.49	-1,004.78	4,510.19	0.00	0.00	0.00
[RickDeckard#12H]LTP/BHL									
14,368.01	90.00	359.96	9,520.00	4,554.49	-1,004.81	4,555.19	0.00	0.00	0.00

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Site:	Rick Deckard State 25-28-4 (12-14-15-18)	MD Reference:	Well @ 2988.00usft (GL: 2963' + KB: 25' (Prec594))
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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Prelim Plan B	Database:	WellPlanner1

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[RickDeckard#12H]FTP - hit/miss target - Shape	0.00	0.00	0.00	-178.93	-1,001.25	419,316.07	575,031.71	32.152585	-104.090890
- plan misses target center by 1017.11usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
[RickDeckard#12H]KOP - plan hits target center - Point	0.00	0.00	8,879.00	-408.00	-1,001.00	419,087.00	575,031.96	32.151955	-104.090891
[RickDeckard#12H]LTP/I - plan hits target center - Point	0.00	0.00	9,520.00	4,509.49	-1,004.78	424,004.49	575,028.18	32.165473	-104.090867

Checked By: _____	Approved By: _____	Date: _____
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