

NM OIL CONSERVATION
ARTESIA DISTRICT

DEC 21 2017

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USA

NEW MEXICO

HERMES FEE 23-28-30 (TB 9H, WA 10H)

HERMES FEE 23-28-30 TB 9H

HERMES FEE 23-28-30 TB 9H 30-015-44606

Plan: PRELIM A

Survey Report - Geographic

13 December, 2017

Marathon Oil

Survey Report - Geographic

Company:	USA	Local Coordinate Reference:	Well HERMES FEE 23-28-30 TB 9H
Project:	NEW MEXICO	TVD Reference:	RKB @ 3231.5usft
Site:	HERMES FEE 23-28-30 (TB 9H, WA 10H)	MD Reference:	RKB @ 3231.5usft
Well:	HERMES FEE 23-28-30 TB 9H	North Reference:	Grid
Wellbore:	HERMES FEE 23-28-30 TB 9H	Survey Calculation Method:	Minimum Curvature
Design:	PRELIMA	Database:	EDMPROD

Project:	NEW MEXICO		
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:	HERMES FEE 23-28-30 (TB 9H, WA 10H)			
Site Position:		Northing:	461,891.85 usft	Latitude: 32° 16' 10.839 N
From:	Map	Easting:	565,898.30 usft	Longitude: 104° 7' 12.462 W
Position Uncertainty:	3.3 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.11 °

Well:	HERMES FEE 23-28-30 TB 9H, WELL 1 OF 2			
Well Position	+N/-S	0.0 usft	Northing:	461,891.85 usft
	+E/-W	0.0 usft	Easting:	565,898.30 usft
Position Uncertainty	1.1 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,205.0 usft

Wellbore:	HERMES FEE 23-28-30 TB 9H			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	IGRF2015	12/13/2017	7.16	60.01
				Field Strength (nT)
				47,858

Design:	PRELIMA			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.71

Survey Tool Program:	Date: 12/13/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	13,717.2	PRELIMA A (HERMES FEE 23-28-30 TB 9H)	MWD	OWSG MWD - Standard

Planned Survey:									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	461,891.85	565,898.30	32° 16' 10.839 N	104° 7' 12.462 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	461,891.85	565,898.30	32° 16' 10.839 N	104° 7' 12.462 W
3,100.0	5.00	106.73	3,099.4	-6.3	20.9	461,885.58	565,919.18	32° 16' 10.777 N	104° 7' 12.219 W
4,136.4	5.00	106.73	4,131.9	-32.3	107.4	461,859.58	566,005.69	32° 16' 10.518 N	104° 7' 11.212 W
4,636.4	0.00	0.00	4,631.2	-38.5	128.3	461,853.30	566,026.57	32° 16' 10.455 N	104° 7' 10.969 W
8,761.3	0.00	0.00	8,756.1	-38.5	128.3	461,853.30	566,026.57	32° 16' 10.455 N	104° 7' 10.969 W
9,662.3	90.10	359.71	9,329.0	535.4	125.4	462,427.25	566,023.67	32° 16' 16.135 N	104° 7' 10.990 W
13,717.2	90.10	359.71	9,321.9	4,590.2	104.8	466,482.09	566,003.14	32° 16' 56.263 N	104° 7' 11.135 W

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Checked By: _____	Approved By: _____	Date: _____
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