

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 WA 10H

HERMES FEE 23-28-30 WA 10H 30-015-44607

Plan: PRELIM A

Survey Report - Geographic

13 December, 2017

Marathon Oil
Survey Report - Geographic

Company:	USA	Local Co-ordinate Reference:	Well HERMES FEE 23-28-30 WA 10H
Project:	NEW MEXICO	TVD Reference:	RKB @ 3231.5usft
Site:	HERMES FEE 23-28-30 (TB 9H, WA 10H)	MO Reference:	RKB @ 3231.5usft
Well:	HERMES FEE 23-28-30 WA 10H	North Reference:	Grid
Wellbore:	HERMES FEE 23-28-30 WA 10H	Survey Calculation Method:	Minimum Curvature
Design:	PRELIM A	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 WA 10H, WELL 2 OF 2					
Well Position	+N-S	0.0 usft	Northing:	461,891.90 usft	Latitude:	32° 16' 10.839 N
	+E-W	0.0 usft	Easting:	565,948.30 usft	Longitude:	104° 7' 11.880 W
Position Uncertainty		1.1 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,205.0 usft

Wellbore	HERMES FEE 23-28-30 WA 10H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/13/2017	7.16	60.01	47,858

Design:	PRELIM A			
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	14,023.3	PRELIM A (HERMES FEE 23-28-30 WA 1	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	461,891.90	565,948.30	32° 16' 10.839 N	104° 7' 11.880 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	461,891.90	565,948.30	32° 16' 10.839 N	104° 7' 11.880 W
3,100.0	5.00	95.51	3,099.4	-2.1	21.7	461,889.81	565,970.00	32° 16' 10.818 N	104° 7' 11.627 W
7,305.8	5.00	95.51	7,289.2	-37.3	386.6	461,854.59	566,334.87	32° 16' 10.462 N	104° 7' 7.378 W
7,805.8	0.00	0.00	7,788.6	-39.4	408.3	461,852.49	566,356.57	32° 16' 10.441 N	104° 7' 7.125 W
9,068.3	0.00	0.00	9,051.1	-39.4	408.3	461,852.49	566,356.57	32° 16' 10.441 N	104° 7' 7.125 W
9,969.3	90.10	359.71	9,624.0	534.5	405.4	462,426.44	566,353.67	32° 16' 16.121 N	104° 7' 7.146 W
14,023.3	90.10	359.71	9,617.0	4,588.5	384.8	466,480.39	566,333.15	32° 16' 56.240 N	104° 7' 7.290 W

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Wellbore:	HERMES FEE 23-28-30 WA 10H	Survey Calculation Method:	Minimum Curvature
Design:	PRELIM A	Display:	EDMPROD

Checked By: _____	Approved By: _____	Date: _____
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