



Marathon Oil

Eddy County, NM

Rick Deckard State 25-28-4 (2-6-8-9)

WXY #8H

OH

Design: OH 510'-14197' PTB 14265'

Survey Report

20 May, 2019

30-D15-45348

RECEIVED

AUG 21 2019

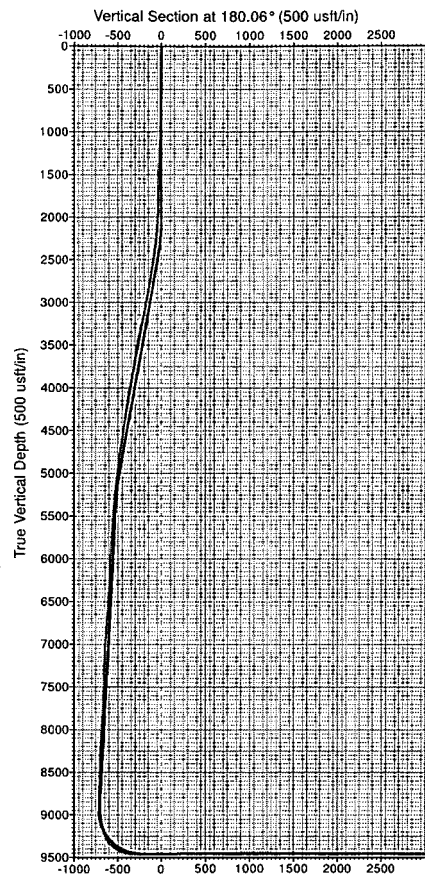
DISTRICT I-ARTESIA O.C.D.

PRO DIRECTIONAL



Marathon Oil Corporation

Marathon Oil
Eddy County, NM
Rick Deckard State 25-28-4 (2-6-8-9)
WXY #8H
Plan #3
GL: 3002' + KB: 25' (PD594)



RKB Elevation: Well @ 3027.00usft (GL: 3002' + KB: 25' (PD594))

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
	0.00	0.00	423513.53	573747.53	32.164131	-104.095009	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Oleg	V Sect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00
3	2500.00	10.00	356.16	2497.47	43.42	-2.92	2.00	-43.42
4	5033.00	10.00	356.16	4991.98	482.29	-32.41	0.00	-482.25
5	5382.78	3.00	356.16	5339.30	521.78	-35.06	2.00	-521.75
6	9003.03	3.00	356.16	8954.57	711.10	-47.78	0.00	-711.05
7	9778.01	90.00	180.06	9457.00	234.29	-50.07	12.00	-234.24
8	14196.01	90.00	180.06	9457.00	-4183.71	-54.70	0.00	4183.76
9	14241.01	90.00	180.06	9457.00	-4228.71	-54.75	0.00	4228.76

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
[RickDeckard#8H]FTP	0.00	489.74	-49.95	424003.27	573697.58
[RickDeckard#8H]LTP/BHL	9457.00	-4183.71	-54.70	419329.82	573692.83

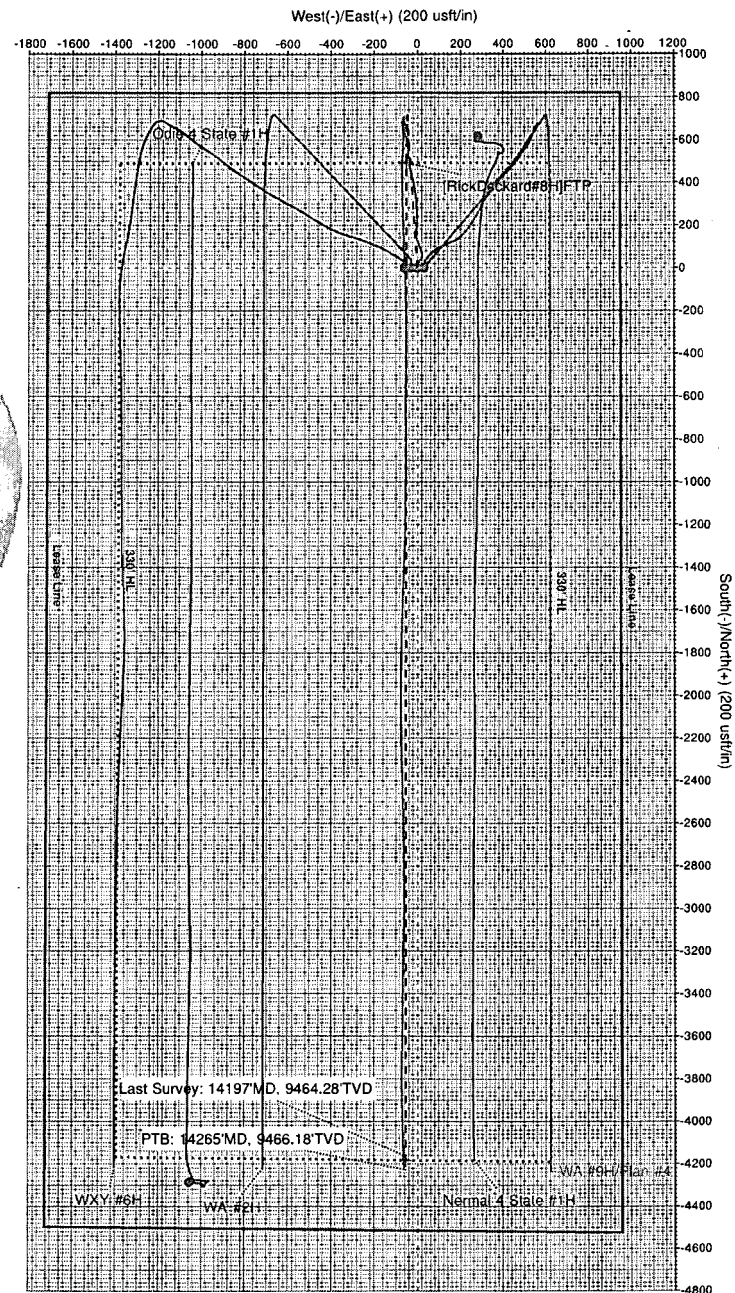
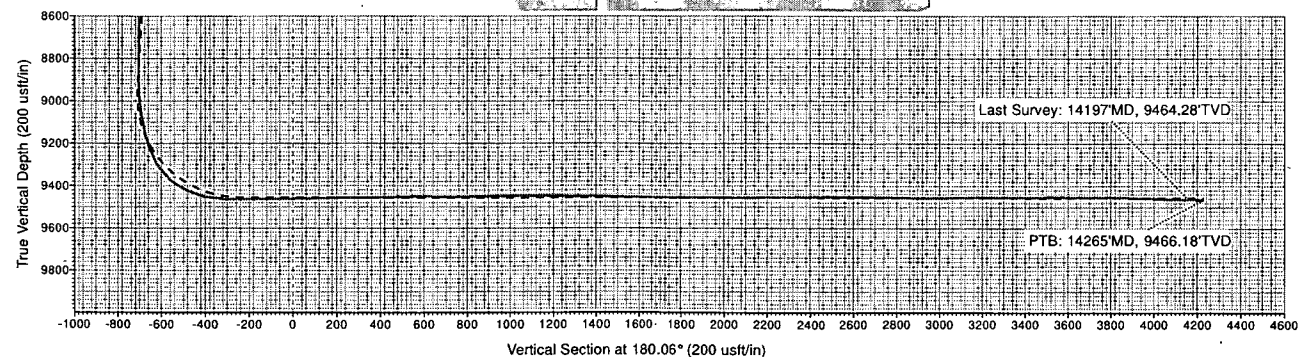
Azimuths to Grid North:
True North: -0.13°
Magnetic North: -6.99°
Magnetic Field Strength: 47866.8nT
Dip Angle: 59.89°
Date: 4/10/2019
Model: HDGM

Azimuth Corrections

Total Magnetic Corr. (M to G): 6.99°
Declination (M to T): 7.12° East



Target Line: 9457' TVD @ 0° VS: 90° INC





Wellbore Schematic

Well Name: RICK DECKARD 25-28-4 WXY STATE 008H

State/Province NEW MEXICO	Prospect Area MALAGA	Field Name PURPLE SAGE	Well Subtype	Lat/Long Datum NAD27	Latitude (°) 32.164131	Longitude (°) -104.095009
Well Configuration Type HORIZONTAL	Well Objective EXPLOITATION	Well Status COMPLETION	Ground Elevation (ft) 3,002.00	KB-Ground Distance (ft) 25.00		

HORIZONTAL - RICK DECKARD 25-28-4 WXY STATE 008H, 5/23/2019, 10:46:26 AM

MD (ftKB)	TVD (ftKB)	Inc. (°)	Vertical schematic (actual)			
18.7	18.7	0.9				
24.9	24.9	0.9				
25.9	25.9	0.9				
85.0	85.0	0.9	Des: Conductor Cement; Depth MD: 25.0-105.0 ftKB; Date: 3/1/2019			
105.0	105.0	0.9				
416.0	416.0	0.6	Des: Tail cement; Depth MD: 25.0-458.0 ftKB; Date: 4/2/2019			
417.6	417.6	0.6				
456.0	456.0	0.5				
458.0	458.0	0.5	Des: Intermediate Casing Cement; Depth MD: 25.0-2,491.2 ftKB; Date: 5/5/2019			
2,439.0	2,439.0	9.3				
2,440.6	2,440.6	9.3				
2,442.2	2,442.2	9.3				
2,485.0	2,485.0	9.2				
2,486.9	2,486.9	9.1				
8,905.6	8,905.6	1.6	Des: Production Casing Cement; Depth MD: 25.0-14,255.3 ftKB; Date: 5/15/2019			
8,916.1	8,916.1	1.8				
9,463.5	9,463.5	88.4				
9,463.6	9,463.6	88.4				
9,464.8	9,464.8	88.4				
9,464.8	9,464.8	88.4				
9,466.0	9,466.0	88.4				
9,466.0	9,466.0	88.4				

No. 1; Des: Conductor 1; OD: 20.000 in;
ID: 19.000 in; Depth MD: 25.0-85.0 ftKB;
Length: 60.00 ft

No. 2; Des: Surface; OD: 13.375 in;
ID: 12.615 in; Depth MD: 25.0-458.0 ftKB;
Length: 433.00 ft

No. 3; Des: Intermediate 1; OD: 9.625 in;
ID: 8.921 in; Depth MD: 24.9-2,491.2 ftKB;
Length: 2,466.25 ft

No. 4; Des: Production 1; OD: 5.500 in;
ID: 4.778 in; Depth MD: 25.0-14,255.3
ftKB; Length: 14,230.28 ft

Directions to Well: FROM THE MARATHON OFFICE AT 1111 TIDWELL, CARLSBAD, NM, HEAD SOUTH ON TIDWELL RD TOWARD US HWY 285 NORTH FOR 0.2 MILES TURN LEFT ONTO US HWY 285 SOUTH, HEADING SOUTH, FOR 17.6 MILES TO A CALICHE ROAD. TURN RIGHT ONTO CALICHE ROAD HEADING WEST FOR 2.1 MILES TO THE PROPOSED LEASE ROAD FOR THE RICK DECKARD STATE 25-28-4 WA #2H, WXY 6H, WA 9H AND WXY 8H. WELL PAD LOCATION: TURN LEFT ONTO SAID PROPOSED LEASE ROAD, HEADING SOUTHEAST FOR 47 FEET ENTERING THE NORTHWEST CORNER OF SAID WELL PAD LOCATION.