

Permit Information Revised 3/18/15:

Well Name: Mars 10 State No. 504H

Location:

SHL: 326' FNL & 2230' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 1915' FEL, Section 3, T-24-S, R-33-E, Lea Co., N.M.

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 1,310'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4,000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4,000' - 5,150'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-16,065'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,310'	550	13.5	1.73	Class C + 4.0% Bentonite + 0.6% CD-32 + 0.5% CaCl ₂ + 0.25 lb/sk Cello-Flake (TOC @ Surface)
	250	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,150'	800	12.7	2.22	Class 'C' + 1.50% R-3 + 0.25 lb/sk Cello-Flake + 2.0% Sodium Metasilicate + 10% Salt + 0.005 lb/sk Static Free (TOC @ Surface)
	225	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
16,065'	350	10.8	3.67	60:40:0 Class C + 15.0 pps BA-90 + 4% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 2.55% R-21 + 8.0 pps LCM-1 (TOC @ 4,650')
	400	11.9	2.38	50:50:10 Class H + 0.80% FL-52 + 0.30% ASA-301 + 0.40% SMS + 2.0% Salt + 0.30% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake
	1700	14.2	1.28	50:50:2 Class H + 0.65% FL-52 + 0.45% CD-32 + 0.10% SMS + 2.0% Salt

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,310'	Fresh - Gel	8.6-8.8	28-34	N/c
1,310' - 5,150'	Brine	10.0-10.2	28-34	N/c
5,150' - 10,447'	Cut Brine	8.4-9.0	28-34	N/c
10,447' - 16,065' Lateral	Cut Brine	9.0-9.5	40-42	8-10

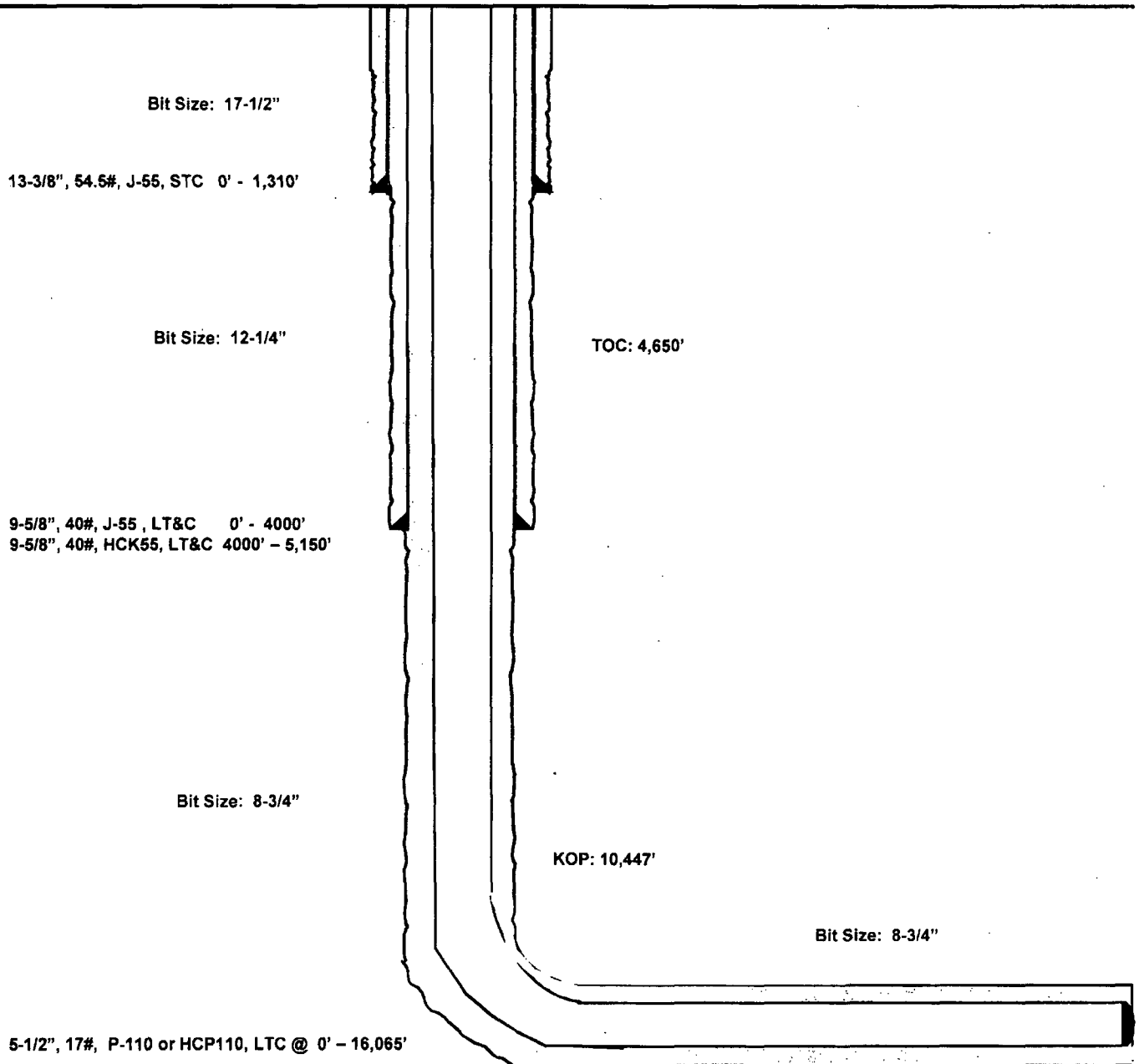
MAR 20 2015'

**Mars 10 State #504H
Lea County, New Mexico**

**326' FNL
2230' FEL
Section 10
T-24-S, R-33-E**

**Proposed Wellbore
Revised 3/18/15
API: 30-025-42384**

**KB: 3,623'
GL: 3,593'**



Lateral: 16,065' MD, 11,004' TVD

**BH Location: 230' FNL & 1915' FEL
Section 3
T-24-S, R-33-E**



Lea County, NM (NAD 27 NME)

Mars 10 State #504H

Plan #3

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.77°
Magnetic Field
Strength: 48188.8nT
Dip Angle: 60.11°
Date: 4/22/2018
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.77°
To convert a Magnetic Direction to a True Direction, Add 7.18° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

WELL DETAILS: #504H

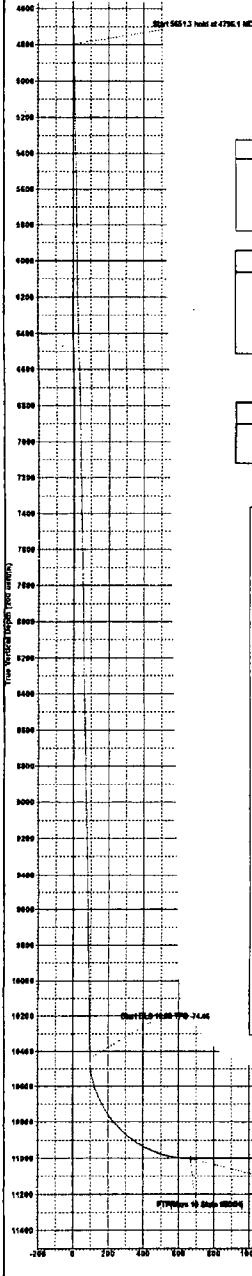
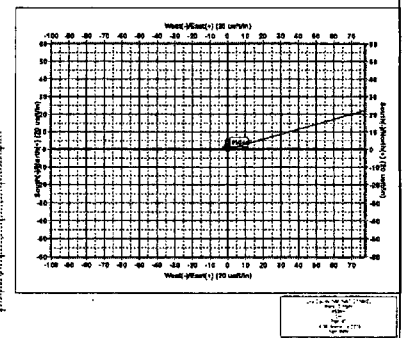
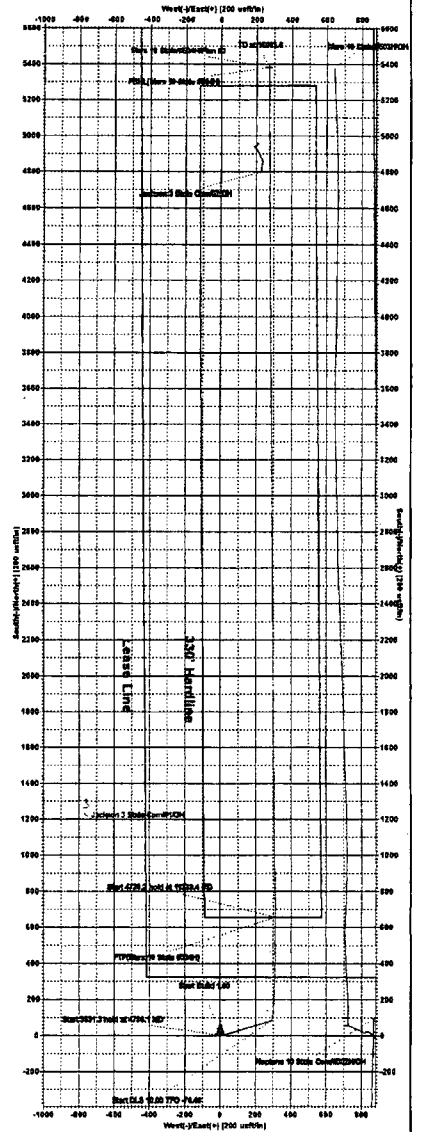
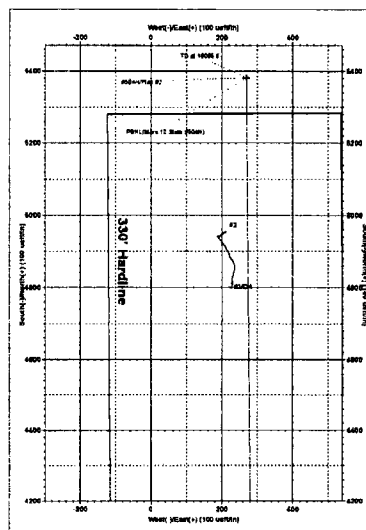
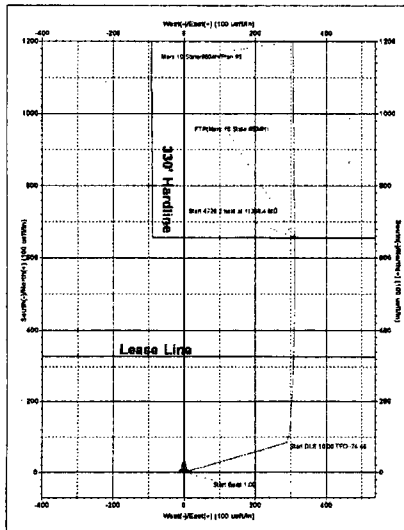
Ground Level: 3593.0
KB = 35 @ 361.8 Quin
Easting: 738612.0002° 14' 16.043 N
Longitude: 109° 33' 30.107 W
Shot

SECTION DETAILS

Sec	MD	Inc	Alt	TVD	+N-S	+E-W	Deg	TFace	VFace	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4800.0	0.00	0.00	4800.0	0.0	0.0	0.00	0.00	0.0		
3	4795.1	2.98	73.94	4788.9	2.1	7.3	1.00	73.94	2.8		
4	10447.4	2.98	73.94	10439.7	82.9	287.9	0.00	0.00	97.2		
5	11333.4	30.00	358.50	11004.0	656.0	311.0	10.00	-74.48	870.8	FTP(Mars 10 State #504H)	
6	10968.4	90.00	339.50	11004.0	6382.0	278.0	0.00	0.00	6388.9	PBH(Mars 10 State #504H)	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	North	Easting	Shape
FTP(Mars 10 State #504H)	11004.0	656.0	111.0	481948.00	738923.00	Point
PBH(Mars 10 State #504H)	11004.0	6382.0	270.0	484876.00	738882.00	Point





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Mars 10 State

#504H

OH

Plan: Plan #3

Standard Planning Report

18 March, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3618.0usft
MD Reference: KB = 25' @ 3618.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD 27 NME)		
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	Mars 10 State			
Site Position:		Northing:	451,419.00 usft	Latitude: 32° 14' 19.322 N
From:	Map	Easting:	739,148.00 usft	Longitude: 103° 33' 35.549 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.41 °

Well	#504H			
Well Position	+N/-S	-126.0 usft	Northing:	451,293.00 usft
	+E/-W	464.0 usft	Easting:	739,612.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,593.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	4/22/2015	7.18	60.11	48,169

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	2.87

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,796.1	2.96	73.94	4,795.9	2.1	7.3	1.00	1.00	0.00	73.94	
10,447.4	2.96	73.94	10,439.7	82.9	287.9	0.00	0.00	0.00	0.00	
11,339.4	90.00	359.50	11,004.0	656.0	311.0	10.00	9.76	-8.34	-74.46	FTP(Mars 10 State #5
16,065.6	90.00	359.50	11,004.0	5,382.0	270.0	0.00	0.00	0.00	0.00	PBHL(Mars 10 State 1



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MD Reference: KB = 25' @ 3618.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	1.00	73.94	4,600.0	0.2	0.8	0.3	1.00	1.00	0.00
4,700.0	2.00	73.94	4,700.0	1.0	3.4	1.1	1.00	1.00	0.00
4,796.1	2.96	73.94	4,795.9	2.1	7.3	2.5	1.00	1.00	0.00
4,800.0	2.96	73.94	4,799.9	2.2	7.5	2.5	0.00	0.00	0.00
4,900.0	2.96	73.94	4,899.7	3.6	12.5	4.2	0.00	0.00	0.00
5,000.0	2.96	73.94	4,999.6	5.0	17.5	5.9	0.00	0.00	0.00
5,100.0	2.96	73.94	5,099.5	6.5	22.4	7.6	0.00	0.00	0.00
5,200.0	2.96	73.94	5,199.3	7.9	27.4	9.3	0.00	0.00	0.00



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5,300.0	2.96	73.94	5,299.2	9.3	32.4	10.9	0.00	0.00	0.00
5,400.0	2.96	73.94	5,399.1	10.7	37.3	12.6	0.00	0.00	0.00
5,500.0	2.96	73.94	5,498.9	12.2	42.3	14.3	0.00	0.00	0.00
5,600.0	2.96	73.94	5,598.8	13.6	47.3	16.0	0.00	0.00	0.00
5,700.0	2.96	73.94	5,698.7	15.0	52.2	17.6	0.00	0.00	0.00
5,800.0	2.96	73.94	5,798.5	16.5	57.2	19.3	0.00	0.00	0.00
5,900.0	2.96	73.94	5,898.4	17.9	62.1	21.0	0.00	0.00	0.00
6,000.0	2.96	73.94	5,998.3	19.3	67.1	22.7	0.00	0.00	0.00
6,100.0	2.96	73.94	6,098.1	20.7	72.1	24.3	0.00	0.00	0.00
6,200.0	2.96	73.94	6,198.0	22.2	77.0	26.0	0.00	0.00	0.00
6,300.0	2.96	73.94	6,297.9	23.6	82.0	27.7	0.00	0.00	0.00
6,400.0	2.96	73.94	6,397.7	25.0	87.0	29.4	0.00	0.00	0.00
6,500.0	2.96	73.94	6,497.6	26.5	91.9	31.0	0.00	0.00	0.00
6,600.0	2.96	73.94	6,597.5	27.9	96.9	32.7	0.00	0.00	0.00
6,700.0	2.96	73.94	6,697.3	29.3	101.9	34.4	0.00	0.00	0.00
6,800.0	2.96	73.94	6,797.2	30.8	106.8	36.1	0.00	0.00	0.00
6,900.0	2.96	73.94	6,897.1	32.2	111.8	37.7	0.00	0.00	0.00
7,000.0	2.96	73.94	6,996.9	33.6	116.7	39.4	0.00	0.00	0.00
7,100.0	2.96	73.94	7,096.8	35.0	121.7	41.1	0.00	0.00	0.00
7,200.0	2.96	73.94	7,196.7	36.5	126.7	42.8	0.00	0.00	0.00
7,300.0	2.96	73.94	7,296.5	37.9	131.6	44.4	0.00	0.00	0.00
7,400.0	2.96	73.94	7,396.4	39.3	136.6	46.1	0.00	0.00	0.00
7,500.0	2.96	73.94	7,496.3	40.8	141.6	47.8	0.00	0.00	0.00
7,600.0	2.96	73.94	7,596.1	42.2	146.5	49.5	0.00	0.00	0.00
7,700.0	2.96	73.94	7,696.0	43.6	151.5	51.1	0.00	0.00	0.00
7,800.0	2.96	73.94	7,795.9	45.0	156.5	52.8	0.00	0.00	0.00
7,900.0	2.96	73.94	7,895.7	46.5	161.4	54.5	0.00	0.00	0.00
8,000.0	2.96	73.94	7,995.6	47.9	166.4	56.2	0.00	0.00	0.00
8,100.0	2.96	73.94	8,095.5	49.3	171.3	57.9	0.00	0.00	0.00
8,200.0	2.96	73.94	8,195.3	50.8	176.3	59.5	0.00	0.00	0.00
8,300.0	2.96	73.94	8,295.2	52.2	181.3	61.2	0.00	0.00	0.00
8,400.0	2.96	73.94	8,395.1	53.6	186.2	62.9	0.00	0.00	0.00
8,500.0	2.96	73.94	8,494.9	55.0	191.2	64.6	0.00	0.00	0.00
8,600.0	2.96	73.94	8,594.8	56.5	196.2	66.2	0.00	0.00	0.00
8,700.0	2.96	73.94	8,694.7	57.9	201.1	67.9	0.00	0.00	0.00
8,800.0	2.96	73.94	8,794.5	59.3	206.1	69.6	0.00	0.00	0.00
8,900.0	2.96	73.94	8,894.4	60.8	211.1	71.3	0.00	0.00	0.00
9,000.0	2.96	73.94	8,994.3	62.2	216.0	72.9	0.00	0.00	0.00
9,100.0	2.96	73.94	9,094.1	63.6	221.0	74.6	0.00	0.00	0.00
9,200.0	2.96	73.94	9,194.0	65.0	225.9	76.3	0.00	0.00	0.00
9,300.0	2.96	73.94	9,293.9	66.5	230.9	78.0	0.00	0.00	0.00
9,400.0	2.96	73.94	9,393.7	67.9	235.9	79.6	0.00	0.00	0.00
9,500.0	2.96	73.94	9,493.6	69.3	240.8	81.3	0.00	0.00	0.00
9,600.0	2.96	73.94	9,593.5	70.8	245.8	83.0	0.00	0.00	0.00
9,700.0	2.96	73.94	9,693.3	72.2	250.8	84.7	0.00	0.00	0.00
9,800.0	2.96	73.94	9,793.2	73.6	255.7	86.3	0.00	0.00	0.00
9,900.0	2.96	73.94	9,893.1	75.1	260.7	88.0	0.00	0.00	0.00
10,000.0	2.96	73.94	9,992.9	76.5	265.6	89.7	0.00	0.00	0.00
10,100.0	2.96	73.94	10,092.8	77.9	270.6	91.4	0.00	0.00	0.00
10,200.0	2.96	73.94	10,192.7	79.3	275.6	93.0	0.00	0.00	0.00
10,300.0	2.96	73.94	10,292.5	80.8	280.5	94.7	0.00	0.00	0.00
10,400.0	2.96	73.94	10,392.4	82.2	285.5	96.4	0.00	0.00	0.00
10,447.4	2.96	73.94	10,439.7	82.9	287.9	97.2	0.00	0.00	0.00
10,450.0	3.04	69.14	10,442.3	82.9	288.0	97.2	10.00	3.08	-181.75



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3618.0usft
MD Reference: KB = 25' @ 3618.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,500.0	6.69	24.62	10,492.1	86.0	290.4	100.5	10.00	7.30	-89.03
10,550.0	11.42	13.79	10,541.5	93.5	292.8	108.1	10.00	9.44	-21.67
10,600.0	16.30	9.31	10,590.0	105.2	295.2	119.9	10.00	9.77	-8.95
10,650.0	21.24	6.87	10,637.4	121.2	297.4	135.9	10.00	9.88	-4.89
10,700.0	26.20	5.31	10,683.1	141.2	299.5	156.0	10.00	9.92	-3.11
10,750.0	31.18	4.23	10,727.0	165.1	301.5	180.0	10.00	9.95	-2.17
10,800.0	36.16	3.41	10,768.6	192.7	303.3	207.7	10.00	9.96	-1.63
10,850.0	41.14	2.77	10,807.6	223.9	305.0	238.9	10.00	9.97	-1.28
10,900.0	46.13	2.25	10,843.8	258.4	306.5	273.4	10.00	9.97	-1.05
10,950.0	51.12	1.81	10,876.8	295.8	307.8	310.9	10.00	9.98	-0.89
11,000.0	56.11	1.42	10,906.5	336.1	308.9	351.1	10.00	9.98	-0.77
11,050.0	61.10	1.08	10,932.5	378.7	309.8	393.8	10.00	9.98	-0.68
11,100.0	66.09	0.77	10,954.8	423.5	310.6	438.5	10.00	9.98	-0.62
11,150.0	71.08	0.48	10,973.0	470.0	311.1	485.0	10.00	9.99	-0.57
11,200.0	76.08	0.21	10,987.1	518.0	311.4	532.9	10.00	9.99	-0.54
11,250.0	81.07	359.95	10,997.0	566.9	311.4	581.8	10.00	9.99	-0.52
11,300.0	86.06	359.70	11,002.6	616.6	311.3	631.4	10.00	9.99	-0.50
11,333.4	89.40	359.53	11,004.0	650.0	311.1	664.8	10.00	9.99	-0.50
FTP(Mars 10 State #504H) test									
11,333.9	89.45	359.53	11,004.0	650.5	311.0	665.2	10.00	9.99	-0.50
FTP(Mars 10 State #504H) test									
11,339.4	90.00	359.50	11,004.0	656.0	311.0	670.8	10.00	9.99	-0.50
FTP(Mars 10 State #504H)									
11,400.0	90.00	359.50	11,004.0	716.6	310.5	731.2	0.00	0.00	0.00
11,500.0	90.00	359.50	11,004.0	816.6	309.6	831.1	0.00	0.00	0.00
11,600.0	90.00	359.50	11,004.0	916.6	308.7	930.9	0.00	0.00	0.00
11,700.0	90.00	359.50	11,004.0	1,016.6	307.9	1,030.7	0.00	0.00	0.00
11,800.0	90.00	359.50	11,004.0	1,116.6	307.0	1,130.5	0.00	0.00	0.00
11,900.0	90.00	359.50	11,004.0	1,216.6	306.1	1,230.4	0.00	0.00	0.00
12,000.0	90.00	359.50	11,004.0	1,316.6	305.3	1,330.2	0.00	0.00	0.00
12,100.0	90.00	359.50	11,004.0	1,416.6	304.4	1,430.0	0.00	0.00	0.00
12,200.0	90.00	359.50	11,004.0	1,516.6	303.5	1,529.9	0.00	0.00	0.00
12,300.0	90.00	359.50	11,004.0	1,616.5	302.7	1,629.7	0.00	0.00	0.00
12,400.0	90.00	359.50	11,004.0	1,716.5	301.8	1,729.5	0.00	0.00	0.00
12,500.0	90.00	359.50	11,004.0	1,816.5	300.9	1,829.3	0.00	0.00	0.00
12,600.0	90.00	359.50	11,004.0	1,916.5	300.1	1,929.2	0.00	0.00	0.00
12,700.0	90.00	359.50	11,004.0	2,016.5	299.2	2,029.0	0.00	0.00	0.00
12,800.0	90.00	359.50	11,004.0	2,116.5	298.3	2,128.8	0.00	0.00	0.00
12,900.0	90.00	359.50	11,004.0	2,216.5	297.5	2,228.6	0.00	0.00	0.00
13,000.0	90.00	359.50	11,004.0	2,316.5	296.6	2,328.5	0.00	0.00	0.00
13,100.0	90.00	359.50	11,004.0	2,416.5	295.7	2,428.3	0.00	0.00	0.00
13,200.0	90.00	359.50	11,004.0	2,516.5	294.9	2,528.1	0.00	0.00	0.00
13,300.0	90.00	359.50	11,004.0	2,616.5	294.0	2,628.0	0.00	0.00	0.00
13,400.0	90.00	359.50	11,004.0	2,716.5	293.1	2,727.8	0.00	0.00	0.00
13,500.0	90.00	359.50	11,004.0	2,816.5	292.3	2,827.6	0.00	0.00	0.00
13,600.0	90.00	359.50	11,004.0	2,916.5	291.4	2,927.4	0.00	0.00	0.00
13,700.0	90.00	359.50	11,004.0	3,016.5	290.5	3,027.3	0.00	0.00	0.00
13,800.0	90.00	359.50	11,004.0	3,116.5	289.7	3,127.1	0.00	0.00	0.00
13,900.0	90.00	359.50	11,004.0	3,216.5	288.8	3,226.9	0.00	0.00	0.00
14,000.0	90.00	359.50	11,004.0	3,316.5	287.9	3,326.7	0.00	0.00	0.00
14,100.0	90.00	359.50	11,004.0	3,416.5	287.1	3,426.6	0.00	0.00	0.00
14,200.0	90.00	359.50	11,004.0	3,516.5	286.2	3,526.4	0.00	0.00	0.00
14,300.0	90.00	359.50	11,004.0	3,616.5	285.3	3,626.2	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
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Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #3

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25' @ 3618.0usft
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
14,400.0	90.00	359.50	11,004.0	3,716.5	284.4	3,726.1	0.00	0.00	0.00
14,500.0	90.00	359.50	11,004.0	3,816.5	283.6	3,825.9	0.00	0.00	0.00
14,600.0	90.00	359.50	11,004.0	3,916.5	282.7	3,925.7	0.00	0.00	0.00
14,700.0	90.00	359.50	11,004.0	4,016.5	281.8	4,025.5	0.00	0.00	0.00
14,800.0	90.00	359.50	11,004.0	4,116.5	281.0	4,125.4	0.00	0.00	0.00
14,900.0	90.00	359.50	11,004.0	4,216.4	280.1	4,225.2	0.00	0.00	0.00
15,000.0	90.00	359.50	11,004.0	4,316.4	279.2	4,325.0	0.00	0.00	0.00
15,100.0	90.00	359.50	11,004.0	4,416.4	278.4	4,424.8	0.00	0.00	0.00
15,200.0	90.00	359.50	11,004.0	4,516.4	277.5	4,524.7	0.00	0.00	0.00
15,300.0	90.00	359.50	11,004.0	4,616.4	276.6	4,624.5	0.00	0.00	0.00
15,400.0	90.00	359.50	11,004.0	4,716.4	275.8	4,724.3	0.00	0.00	0.00
15,500.0	90.00	359.50	11,004.0	4,816.4	274.9	4,824.2	0.00	0.00	0.00
15,600.0	90.00	359.50	11,004.0	4,916.4	274.0	4,924.0	0.00	0.00	0.00
15,700.0	90.00	359.50	11,004.0	5,016.4	273.2	5,023.8	0.00	0.00	0.00
15,800.0	90.00	359.50	11,004.0	5,116.4	272.3	5,123.6	0.00	0.00	0.00
15,900.0	90.00	359.50	11,004.0	5,216.4	271.4	5,223.5	0.00	0.00	0.00
16,000.0	90.00	359.50	11,004.0	5,316.4	270.6	5,323.3	0.00	0.00	0.00
16,064.6	90.00	359.50	11,004.0	5,381.0	270.0	5,387.8	0.00	0.00	0.00
PBHL(Mars 10 State #504H) test									
16,065.2	90.00	359.50	11,004.0	5,381.6	270.0	5,388.4	0.00	0.00	0.00
PBHL(Mars 10 State #504H) test									
16,065.6	90.00	359.50	11,004.0	5,382.0	270.0	5,388.8	0.00	0.00	0.00
PBHL(Mars 10 State #504H)									

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
FTP(Mars 10 State #504 - plan hits target center - Point	0.00	0.00	11,004.0	656.0	311.0	451,949.00	739,923.00	32° 14' 24.512 N	103° 33' 26.462 W
PBHL(Mars 10 State #504 - plan hits target center - Point	0.00	0.01	11,004.0	5,382.0	270.0	456,675.00	739,882.00	32° 15' 11.280 N	103° 33' 26.561 W