

District I
1625 N. French Dr. Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Sante Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources **HOBBS OCD**
Department
OIL CONSERVATION DIVISION **APR 16 2015**
1220 South St. Francis Dr.
Sante Fe, NM 87505

FORM C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42384		² Pool Code 59900		³ Pool Name Triple X; Bone Spring	
⁴ Property Code 313581		⁵ Property Name MARS 10 STATE			⁶ Well Number #504H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3593'

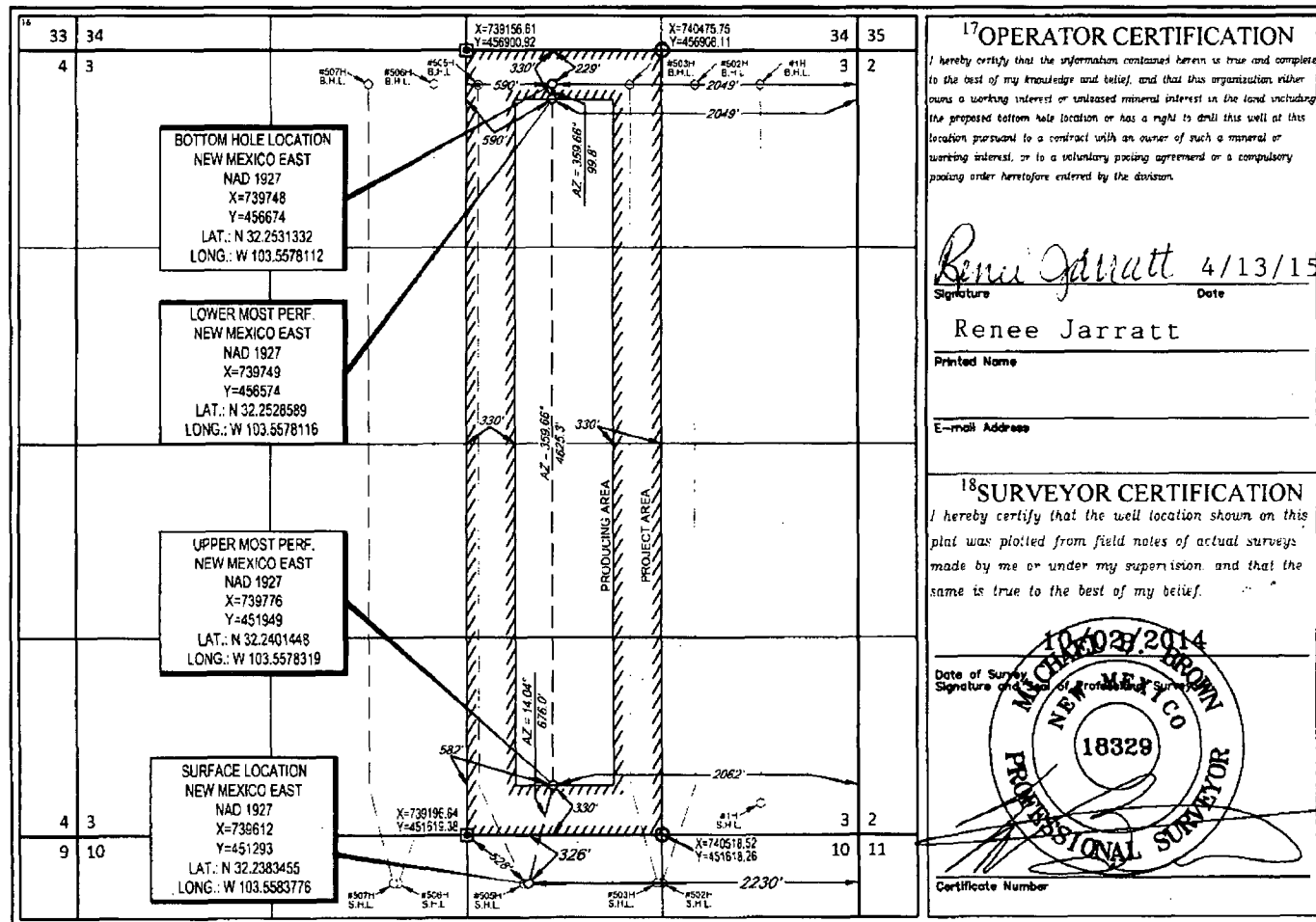
¹⁰Surface Location

L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	10	24-S	33-E	-	326'	NORTH	2230'	EAST	LEA

L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	3	24-S	33-E	-	229'	NORTH	2049'	EAST	LEA

¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



APR 16 2015

Revised Permit Information 4/13/15:

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: 229' FNL & 2049' 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'-16,202'	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
16,202'	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:

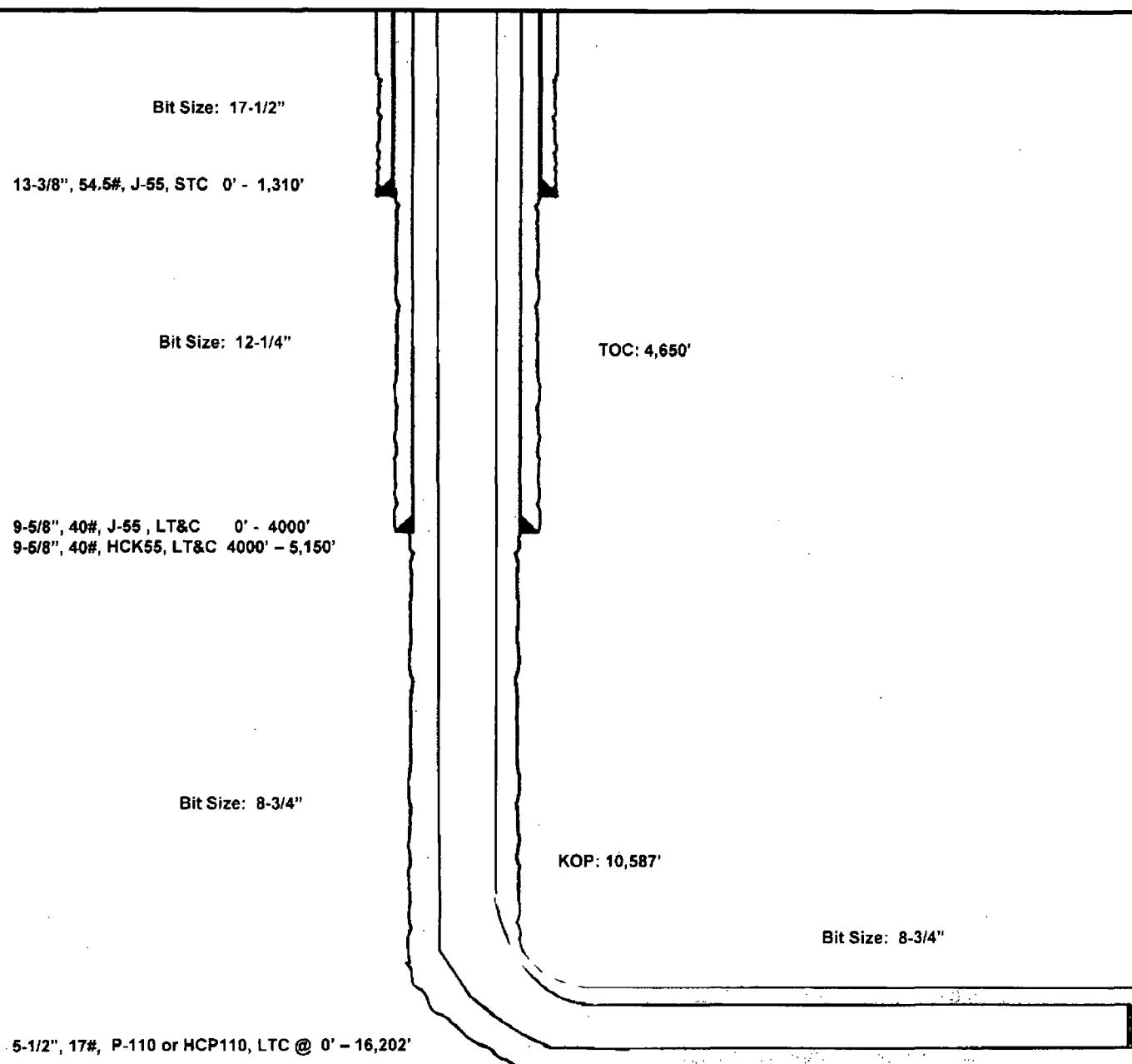
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,310'	Fresh - Gel	8.6-8.8	28-34	N/c
1,310' – 5,150'	Brine	10.0-10.2	28-34	N/c
5,150' – 10,587'	Cut Brine	8.4-9.0	28-34	N/c
10,587' – 16,202' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Mars 10 State #504H
Lea County, New Mexico

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

Proposed Wellbore
Revised 4/13/15
API: 30-025-42384

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



Lateral: 16,202' MD, 11,171' TVD

BH Location: 229' FNL & 2049' FEL
Section 3
T-24-S, R-33-E



Lea County, NM (NAD 27 NME)

Mars 10 State #504H

Plan #2

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: 6.76°

Magnetic Field
Strength: 48290.3nT
Dip Angle: 66.12°
Date: 18/25/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction: Add 6.76°
To convert a Magnetic Direction to a True Direction: Add 7.17° East
To convert a True Direction to a Grid Direction: Subtract 0.41°

WELL DETAILS #504H

Ground Level: 3593.0
KB = 35' @ 2614 South
Northing: 451293.00
Easting: 738512.00
Longitude: 103° 33' 30.157 W
State: NM

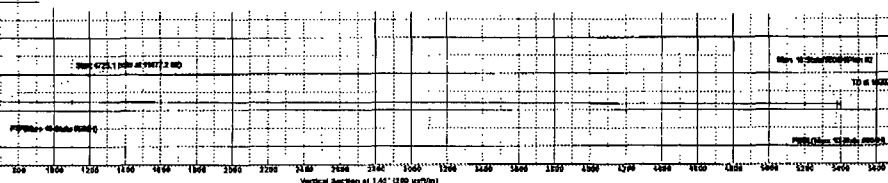
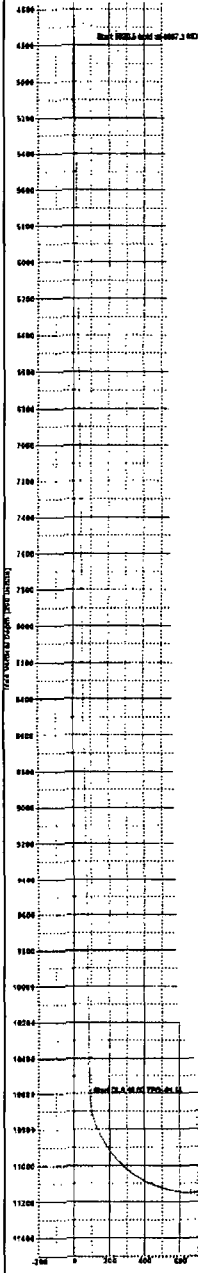
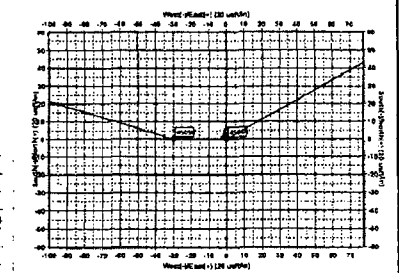
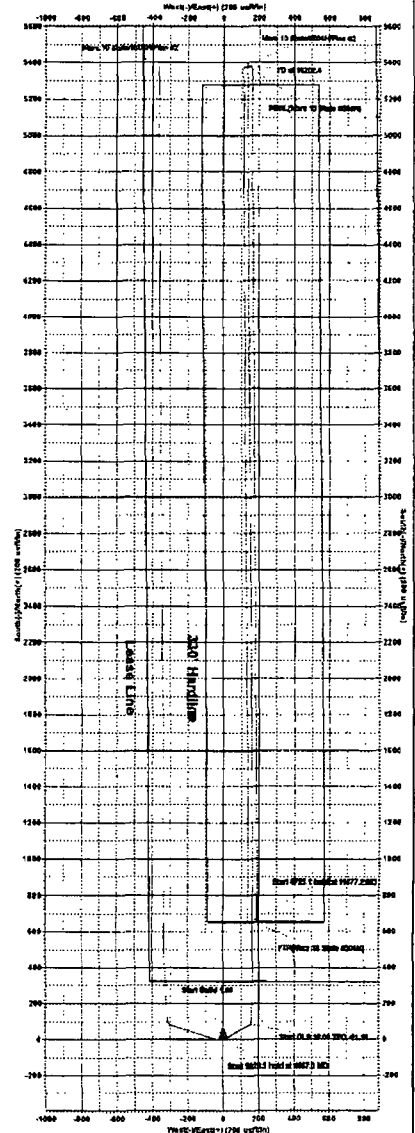
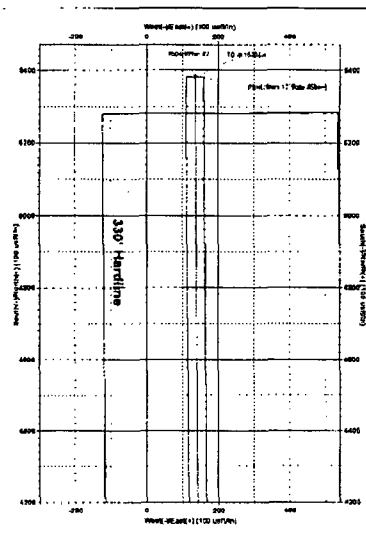
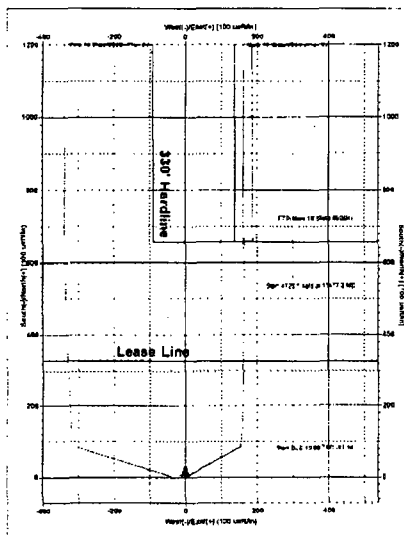
SECTION DETAILS

Sec	MD	Inc	Asz	TVD	HW-S	HE-W	Diag	TFace	VFace	Target	ANNOUSION
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0		
3	4687.3	1.87	88.78	4687.3	1.2	3.1	1.00	6078	1.2		
4	10687.8	1.87	88.78	10687.8	88.8	182.0	0.09	0.00	88.4		
5	11477.1	89.76	358.66	11150.0	688.0	154.6	10.09	-81.14	658.8		
6	16202.4	89.76	358.66	11171.0	6381.0	138.0	0.09	0.00	5382.7		

FTTH(Mars 10 State #504H)
PBH(Mars 10 State #504H)

WELLDROP TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	HW-S	HE-W	Northing	Easting	Shape	Pos-1
FTTH(Mars 10 State #504H)	11150.0	638.0	164.8	451293.00	738512.00	Rectangle (Sides: L.O.0 W.M.0)	
PBH(Mars 10 State #504H)	11171.0	6381.0	138.0	46874.00	738748.00	Rectangle (Sides: L.O.0 W.M.0)	





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Mars 10 State

#504H

OH

Plan: Plan #2

Standard Survey Report

27 January, 2015



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #2

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
Database: EDM 5000.1 Single User Db

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 °

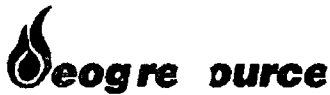
Well	#504H					
Well Position	+N/-S	0.0 usft	Northing:	451,293.00 usft	Latitude:	32° 14' 18.043 N
	+E/-W	0.0 usft	Easting:	739,612.00 usft	Longitude:	103° 33' 30.157 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,593.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	10/20/2014	7.17	60.12	48,290

Design	Plan #2				
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	1.45	

Survey Tool Program	Date	1/27/2015			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	16,202.4	Plan #2 (OH)	MWD	MWD - Standard	

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	



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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
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	60.78	4,600.0	0.4	0.8	0.4	1.00	1.00	0.00
4,667.3	1.67	60.78	4,667.3	1.2	2.1	1.2	1.00	1.00	0.00
4,700.0	1.67	60.78	4,700.0	1.7	3.0	1.7	0.00	0.00	0.00
4,800.0	1.67	60.78	4,798.9	3.1	5.5	3.2	0.00	0.00	0.00
4,900.0	1.67	60.78	4,899.9	4.5	8.1	4.7	0.00	0.00	0.00
5,000.0	1.67	60.78	4,999.8	5.9	10.6	6.2	0.00	0.00	0.00
5,100.0	1.67	60.78	5,099.8	7.4	13.2	7.7	0.00	0.00	0.00
5,200.0	1.67	60.78	5,199.7	8.8	15.7	9.2	0.00	0.00	0.00



EOG Resources, Inc.

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Wellbore: OH
Design: Plan #2

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MD Reference: KB = 25' @ 3618.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
5,300.0	1.67	60.78	5,299.7	10.2	18.3	10.7	0.00	0.00	0.00
5,400.0	1.67	60.78	5,399.7	11.6	20.8	12.2	0.00	0.00	0.00
5,500.0	1.67	60.78	5,499.6	13.1	23.4	13.6	0.00	0.00	0.00
5,600.0	1.67	60.78	5,599.6	14.5	25.9	15.1	0.00	0.00	0.00
5,700.0	1.67	60.78	5,699.5	15.9	28.4	16.6	0.00	0.00	0.00
5,800.0	1.67	60.78	5,799.5	17.3	31.0	18.1	0.00	0.00	0.00
5,900.0	1.67	60.78	5,899.5	18.8	33.5	19.6	0.00	0.00	0.00
6,000.0	1.67	60.78	5,999.4	20.2	36.1	21.1	0.00	0.00	0.00
6,100.0	1.67	60.78	6,099.4	21.6	38.6	22.6	0.00	0.00	0.00
6,200.0	1.67	60.78	6,199.3	23.0	41.2	24.1	0.00	0.00	0.00
6,300.0	1.67	60.78	6,299.3	24.5	43.7	25.6	0.00	0.00	0.00
6,400.0	1.67	60.78	6,399.2	25.9	46.3	27.0	0.00	0.00	0.00
6,500.0	1.67	60.78	6,499.2	27.3	48.8	28.5	0.00	0.00	0.00
6,600.0	1.67	60.78	6,599.2	28.7	51.4	30.0	0.00	0.00	0.00
6,700.0	1.67	60.78	6,699.1	30.2	53.9	31.5	0.00	0.00	0.00
6,800.0	1.67	60.78	6,799.1	31.6	56.5	33.0	0.00	0.00	0.00
6,900.0	1.67	60.78	6,899.0	33.0	59.0	34.5	0.00	0.00	0.00
7,000.0	1.67	60.78	6,999.0	34.4	61.6	36.0	0.00	0.00	0.00
7,100.0	1.67	60.78	7,098.9	35.9	64.1	37.5	0.00	0.00	0.00
7,200.0	1.67	60.78	7,198.9	37.3	66.7	39.0	0.00	0.00	0.00
7,300.0	1.67	60.78	7,298.9	38.7	69.2	40.4	0.00	0.00	0.00
7,400.0	1.67	60.78	7,398.8	40.1	71.8	41.9	0.00	0.00	0.00
7,500.0	1.67	60.78	7,498.8	41.6	74.3	43.4	0.00	0.00	0.00
7,600.0	1.67	60.78	7,598.7	43.0	76.9	44.9	0.00	0.00	0.00
7,700.0	1.67	60.78	7,698.7	44.4	79.4	46.4	0.00	0.00	0.00
7,800.0	1.67	60.78	7,798.6	45.8	82.0	47.9	0.00	0.00	0.00
7,900.0	1.67	60.78	7,898.6	47.3	84.5	49.4	0.00	0.00	0.00
8,000.0	1.67	60.78	7,998.6	48.7	87.1	50.9	0.00	0.00	0.00
8,100.0	1.67	60.78	8,098.5	50.1	89.6	52.4	0.00	0.00	0.00
8,200.0	1.67	60.78	8,198.5	51.5	92.2	53.9	0.00	0.00	0.00
8,300.0	1.67	60.78	8,298.4	53.0	94.7	55.3	0.00	0.00	0.00
8,400.0	1.67	60.78	8,398.4	54.4	97.2	56.8	0.00	0.00	0.00
8,500.0	1.67	60.78	8,498.3	55.8	99.8	58.3	0.00	0.00	0.00
8,600.0	1.67	60.78	8,598.3	57.2	102.3	59.8	0.00	0.00	0.00
8,700.0	1.67	60.78	8,698.3	58.7	104.9	61.3	0.00	0.00	0.00
8,800.0	1.67	60.78	8,798.2	60.1	107.4	62.8	0.00	0.00	0.00
8,900.0	1.67	60.78	8,898.2	61.5	110.0	64.3	0.00	0.00	0.00
9,000.0	1.67	60.78	8,998.1	62.9	112.5	65.8	0.00	0.00	0.00
9,100.0	1.67	60.78	9,098.1	64.4	115.1	67.3	0.00	0.00	0.00
9,200.0	1.67	60.78	9,198.0	65.8	117.6	68.7	0.00	0.00	0.00
9,300.0	1.67	60.78	9,298.0	67.2	120.2	70.2	0.00	0.00	0.00
9,400.0	1.67	60.78	9,398.0	68.6	122.7	71.7	0.00	0.00	0.00
9,500.0	1.67	60.78	9,497.9	70.1	125.3	73.2	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #2

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
Database: EDM 5000.1 Single User Db

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)
9,600.0	1.67	60.78	9,597.9	71.5	127.8	74.7	0.00	0.00	0.00
9,700.0	1.67	60.78	9,697.8	72.9	130.4	76.2	0.00	0.00	0.00
9,800.0	1.67	60.78	9,797.8	74.3	132.9	77.7	0.00	0.00	0.00
9,900.0	1.67	60.78	9,897.7	75.8	135.5	79.2	0.00	0.00	0.00
10,000.0	1.67	60.78	9,997.7	77.2	138.0	80.7	0.00	0.00	0.00
10,100.0	1.67	60.78	10,097.7	78.6	140.6	82.1	0.00	0.00	0.00
10,200.0	1.67	60.78	10,197.6	80.0	143.1	83.6	0.00	0.00	0.00
10,300.0	1.67	60.78	10,297.6	81.5	145.7	85.1	0.00	0.00	0.00
10,400.0	1.67	60.78	10,397.5	82.9	148.2	86.6	0.00	0.00	0.00
10,500.0	1.67	60.78	10,497.5	84.3	150.8	88.1	0.00	0.00	0.00
10,587.9	1.67	60.78	10,585.3	85.6	153.0	89.4	0.00	0.00	0.00
10,600.0	2.50	35.57	10,597.4	85.9	153.3	89.7	10.00	6.78	-207.65
10,650.0	7.17	11.38	10,647.3	89.8	154.6	93.7	10.00	9.35	-48.37
10,700.0	12.11	6.50	10,696.5	98.1	155.8	102.0	10.00	9.87	-9.76
10,750.0	17.08	4.43	10,744.9	110.6	156.9	114.6	10.00	9.95	-4.14
10,800.0	22.07	3.27	10,792.0	127.3	158.0	131.3	10.00	9.97	-2.31
10,850.0	27.06	2.52	10,837.5	148.1	159.1	152.1	10.00	9.98	-1.49
10,900.0	32.05	2.00	10,880.9	172.7	160.0	176.7	10.00	9.99	-1.06
10,950.0	37.05	1.60	10,922.1	201.1	160.9	205.1	10.00	9.99	-0.80
11,000.0	42.04	1.28	10,960.7	232.9	161.7	236.9	10.00	9.99	-0.63
11,050.0	47.04	1.02	10,996.3	267.9	162.4	272.0	10.00	9.99	-0.52
11,100.0	52.04	0.80	11,028.7	306.0	163.0	310.0	10.00	9.99	-0.44
11,150.0	57.03	0.60	11,057.7	346.7	163.5	350.7	10.00	10.00	-0.39
11,200.0	62.03	0.43	11,083.1	389.7	163.9	393.8	10.00	10.00	-0.34
11,250.0	67.03	0.28	11,104.6	434.9	164.2	438.9	10.00	10.00	-0.31
11,300.0	72.03	0.13	11,122.0	481.7	164.3	485.7	10.00	10.00	-0.29
11,350.0	77.03	359.99	11,135.4	529.9	164.4	533.9	10.00	10.00	-0.28
11,400.0	82.02	359.86	11,144.5	579.0	164.3	583.0	10.00	10.00	-0.26
11,450.0	87.02	359.73	11,149.2	628.8	164.1	632.7	10.00	10.00	-0.26
11,477.2	89.75	359.66	11,150.0	656.0	164.0	659.9	10.00	10.00	-0.26
11,500.0	89.75	359.66	11,150.1	678.8	163.9	682.7	0.00	0.00	0.00
11,600.0	89.75	359.66	11,150.5	778.8	163.3	782.6	0.00	0.00	0.00
11,700.0	89.75	359.66	11,151.0	878.8	162.7	882.6	0.00	0.00	0.00
11,800.0	89.75	359.66	11,151.4	978.8	162.1	982.5	0.00	0.00	0.00
11,900.0	89.75	359.66	11,151.9	1,078.8	161.5	1,082.5	0.00	0.00	0.00
12,000.0	89.75	359.66	11,152.3	1,178.8	160.9	1,182.4	0.00	0.00	0.00
12,100.0	89.75	359.66	11,152.8	1,278.8	160.3	1,282.4	0.00	0.00	0.00
12,200.0	89.75	359.66	11,153.2	1,378.7	159.7	1,382.3	0.00	0.00	0.00
12,300.0	89.75	359.66	11,153.7	1,478.7	159.1	1,482.3	0.00	0.00	0.00
12,400.0	89.75	359.66	11,154.1	1,578.7	158.5	1,582.2	0.00	0.00	0.00
12,500.0	89.75	359.66	11,154.5	1,678.7	157.9	1,682.2	0.00	0.00	0.00
12,600.0	89.75	359.66	11,155.0	1,778.7	157.3	1,782.1	0.00	0.00	0.00
12,700.0	89.75	359.66	11,155.4	1,878.7	156.8	1,882.1	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Mars 10 State
 Well: #504H
 Wellbore: OH
 Design: Plan #2

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
 Database: EDM 5000.1 Single User Db

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)
12,800.0	89.75	359.66	11,155.9	1,978.7	156.2	1,982.0	0.00	0.00	0.00
12,900.0	89.75	359.66	11,156.3	2,078.7	155.6	2,082.0	0.00	0.00	0.00
13,000.0	89.75	359.66	11,156.8	2,178.7	155.0	2,181.9	0.00	0.00	0.00
13,100.0	89.75	359.66	11,157.2	2,278.7	154.4	2,281.9	0.00	0.00	0.00
13,200.0	89.75	359.66	11,157.7	2,378.7	153.8	2,381.8	0.00	0.00	0.00
13,300.0	89.75	359.66	11,158.1	2,478.7	153.2	2,481.8	0.00	0.00	0.00
13,400.0	89.75	359.66	11,158.5	2,578.7	152.6	2,581.7	0.00	0.00	0.00
13,500.0	89.75	359.66	11,159.0	2,678.7	152.0	2,681.7	0.00	0.00	0.00
13,600.0	89.75	359.66	11,159.4	2,778.7	151.4	2,781.6	0.00	0.00	0.00
13,700.0	89.75	359.66	11,159.9	2,878.7	150.8	2,881.6	0.00	0.00	0.00
13,800.0	89.75	359.66	11,160.3	2,978.7	150.2	2,981.5	0.00	0.00	0.00
13,900.0	89.75	359.66	11,160.8	3,078.7	149.6	3,081.5	0.00	0.00	0.00
14,000.0	89.75	359.66	11,161.2	3,178.7	149.1	3,181.4	0.00	0.00	0.00
14,100.0	89.75	359.66	11,161.7	3,278.7	148.5	3,281.4	0.00	0.00	0.00
14,200.0	89.75	359.66	11,162.1	3,378.7	147.9	3,381.3	0.00	0.00	0.00
14,300.0	89.75	359.66	11,162.5	3,478.7	147.3	3,481.3	0.00	0.00	0.00
14,400.0	89.75	359.66	11,163.0	3,578.7	146.7	3,581.3	0.00	0.00	0.00
14,500.0	89.75	359.66	11,163.4	3,678.7	146.1	3,681.2	0.00	0.00	0.00
14,600.0	89.75	359.66	11,163.9	3,778.7	145.5	3,781.2	0.00	0.00	0.00
14,700.0	89.75	359.66	11,164.3	3,878.7	144.9	3,881.1	0.00	0.00	0.00
14,800.0	89.75	359.66	11,164.8	3,978.7	144.3	3,981.1	0.00	0.00	0.00
14,900.0	89.75	359.66	11,165.2	4,078.7	143.7	4,081.0	0.00	0.00	0.00
15,000.0	89.75	359.66	11,165.7	4,178.7	143.1	4,181.0	0.00	0.00	0.00
15,100.0	89.75	359.66	11,166.1	4,278.7	142.5	4,280.9	0.00	0.00	0.00
15,200.0	89.75	359.66	11,166.5	4,378.7	141.9	4,380.9	0.00	0.00	0.00
15,300.0	89.75	359.66	11,167.0	4,478.7	141.3	4,480.8	0.00	0.00	0.00
15,400.0	89.75	359.66	11,167.4	4,578.7	140.8	4,580.8	0.00	0.00	0.00
15,500.0	89.75	359.66	11,167.9	4,678.7	140.2	4,680.7	0.00	0.00	0.00
15,600.0	89.75	359.66	11,168.3	4,778.7	139.6	4,780.7	0.00	0.00	0.00
15,700.0	89.75	359.66	11,168.8	4,878.7	139.0	4,880.6	0.00	0.00	0.00
15,800.0	89.75	359.66	11,169.2	4,978.6	138.4	4,980.6	0.00	0.00	0.00
15,900.0	89.75	359.66	11,169.7	5,078.6	137.8	5,080.5	0.00	0.00	0.00
16,000.0	89.75	359.66	11,170.1	5,178.6	137.2	5,180.5	0.00	0.00	0.00
16,100.0	89.75	359.66	11,170.5	5,278.6	136.6	5,280.4	0.00	0.00	0.00
16,202.4	89.75	359.66	11,171.0	5,381.0	136.0	5,382.7	0.00	0.00	0.00



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #504H
Wellbore: OH
Design: Plan #2

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
Database: EDM 5000.1 Single User Db

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	11,150.0	656.0	164.0	451,949.00	739,776.00	32° 14' 24.522 N	103° 33' 28.193 W
PBHL(Mars 10 State #504 - plan hits target center - Rectangle (sides W50.0 H0.0 D4,725.0)	90.25	359.66	11,171.0	5,381.0	136.0	456,674.00	739,748.00	32° 15' 11.280 N	103° 33' 28.122 W

Checked By: _____ Approved By: _____ Date: _____