

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-42385
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator EOG Resources, Inc.		6. State Oil & Gas Lease No.
3. Address of Operator P.O. Box 2267 Midland, TX 79702		7. Lease Name or Unit Agreement Name Mars 10 State
4. Well Location Unit Letter B 326 feet from the North line and 2260 feet from the East line Section 10 Township 24S Range 33E NMPM County Lea		8. Well Number 505H
11. Elevation (Show whether IDR, RKB, RT, GR, etc.) 3594 GR		9. OGRID Number 7377
		10. Pool name or Wildcat Triple X; Bone Spring

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: Completion ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

EOG Resources, Inc. requests an amendment to our approved APD for this well to reflect a change in BHL.

Change from 230 FNL & 2290 FEL TO: 230 FNL & 2549 FEL, Sec 3-T24S-R33E

HOBBSOCD

APR 16 2015

RECEIVED

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Renee Jarratt TITLE Regulatory Analyst DATE 04/13/2015
Type or print name Renee' Jarratt E-mail address: _____ PHONE: 432-686-3684
For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 04/16/15
Conditions of Approval (if any):

* WILL REQUIRE NSL

E-Perm K2

APR 16 2015

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

APR 16 2015

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-42385		² Pool Code 59900		³ Pool Name Triple X; Bone Spring	
⁴ Property Code 313581		⁵ Property Name MARS 10 STATE			⁶ Well Number #505H
⁷ GRID No. 7377		⁸ Operator Name EOG RESOURCES, INC.			⁹ Elevation 3594'

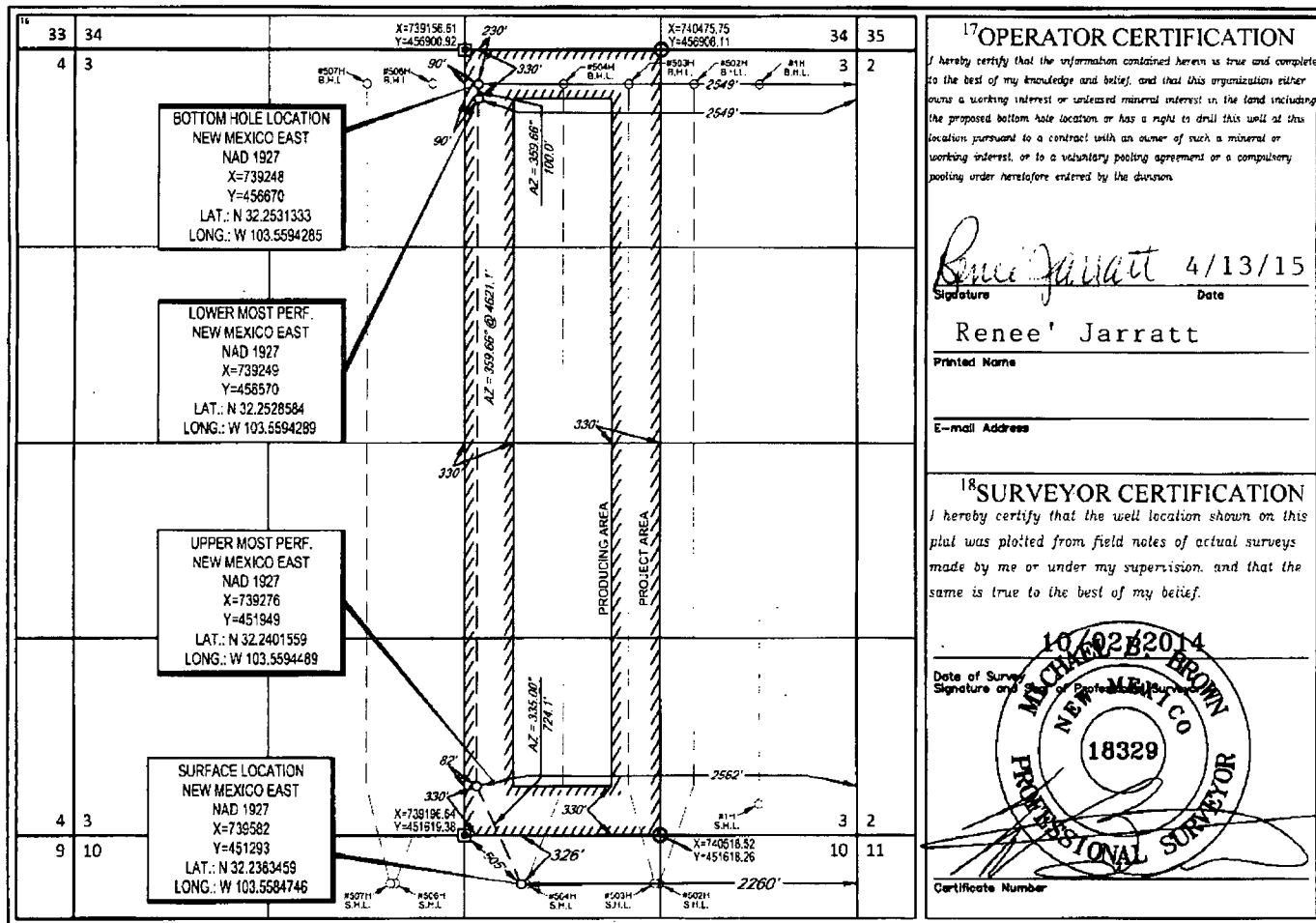
¹⁰Surface Location

UL 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	2260'	EAST	LEA

UL 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	-	230'	NORTH	2549'	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.



S:\SURVEY\EOG_MIDLAND\MARS_10_STATE\FINAL_PRODUCT\SILO_MARS10STATE_505H_REV1.DWG 1/8/2015 3:57:15 PM ocason

APR 16 2015

Revised Permit Information 4/13/15:

Well Name: Mars 10 State No. 505H

Location:

SHL: 326' FNL & 2260' FEL, Section 10, T-24-S, R-33-E, Lea Co., N.M.

BHL: 230' FNL & 2549' 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'-16,203'	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
16,203'	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:

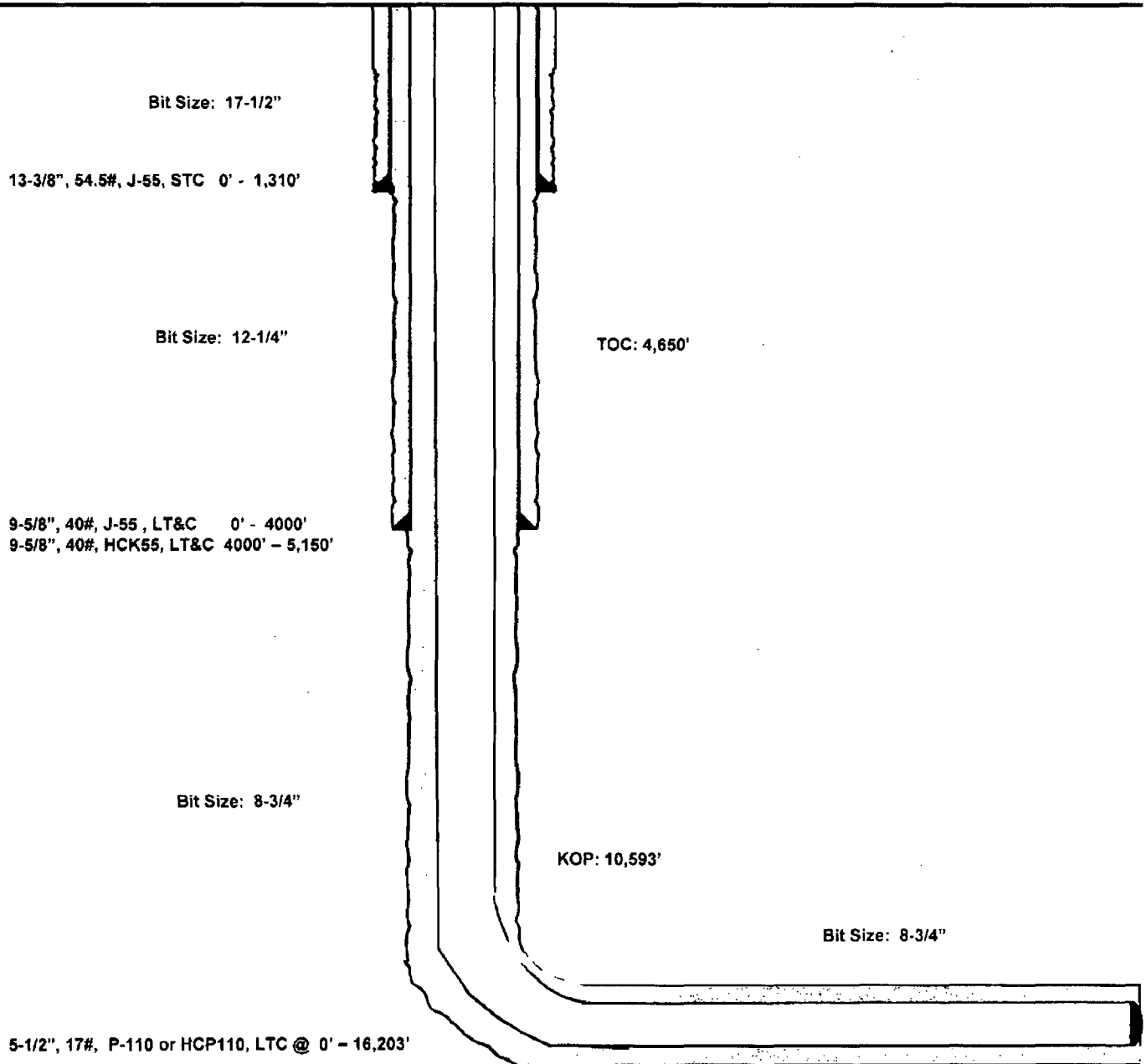
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 1,310'	Fresh - Gel	8.6-8.8	28-34	N/c
1,310' – 5,150'	Brine	10.0-10.2	28-34	N/c
5,150' – 10,593'	Cut Brine	8.4-9.0	28-34	N/c
10,593' – 16,203' Lateral	Cut Brine	9.0-9.5	40-42	8-10

Mars 10 State #505H
Lea County, New Mexico

326' FNL
2260' FEL
Section 10
T-24-S, R-33-E

Proposed Wellbore
Revised 4/16/15
API: 30-025-42385

KB: 3,624'
GL: 3,594'



Lateral: 16,203' MD, 11,171' TVD

BH Location: 230' FNL & 2549' FEL
Section 3
T-24-S, R-33-E



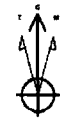
Lea County, NM (NAD 27 NME)

Mars 10 State #505H

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 3061
System Datum: Mean Sea Level



Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.75°

Magnetic Field
Strength: 48289.7 nT
Dip Angle: 60.13°
Date: 10/21/2014
Model: IGRF201014

To convert a Magnetic Direction to a Grid Direction Add 6.75°
To convert a Magnetic Direction to a True Direction Add 1.7° East
To convert a True Direction to a Grid Direction Subtract 0.41°

WELL DETAILS #505H

Ground Level: 3584.0
KB = 22' @ 3619 Depth
Easting: 739582.000
Longitude: 103° 33' 30.507 W
Nothing: 451293.00
Spt

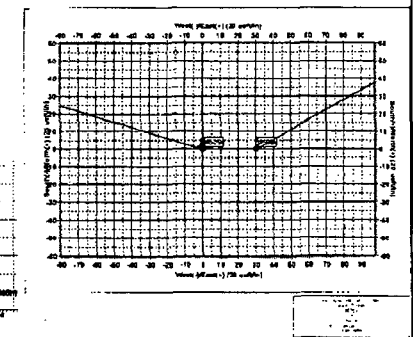
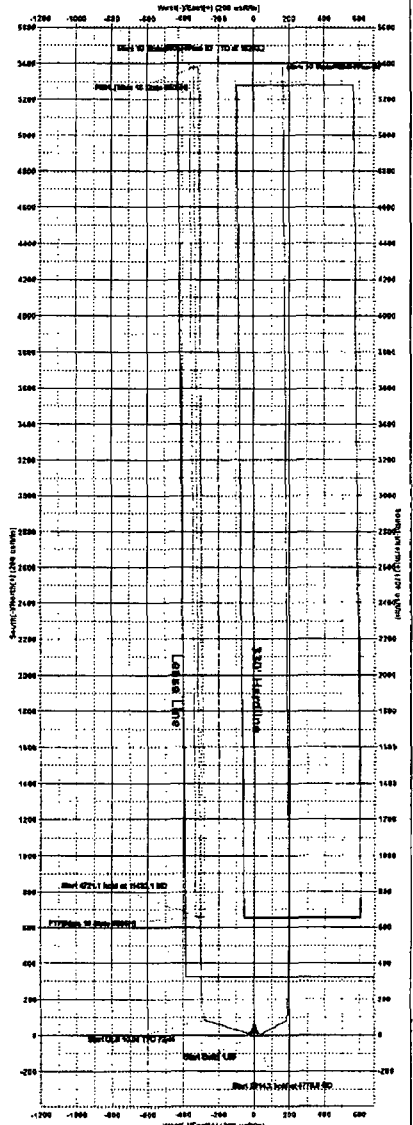
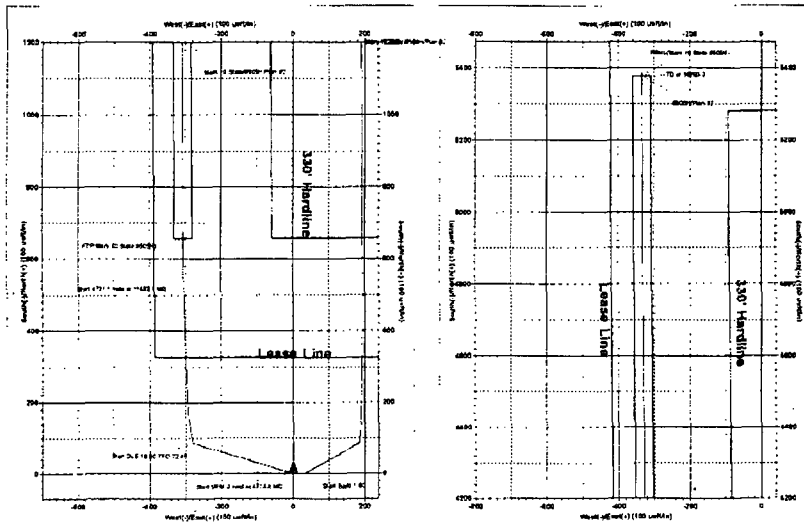
SECTION DETAILS

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Diag	Vsect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.00	0.00	0.0		
2	4506.8	0.00	0.00	4506.8	0.0	0.0	0.00	0.0		
3	4778.8	2.78	287.34	4778.7	2.0	-6.6	1.00	287.34	2.4	
4	10583.1	2.78	287.34	10588.1	85.8	-278.6	0.00	0.00	102.8	
5	11495.1	89.76	269.83	11585.0	858.0	-306.0	1.00	72.48	675.7	
6	16203.2	89.76	359.89	11171.0	5377.0	-334.0	0.00	0.00	5287.4	

FTN(Mars 10 State #505H)
PB-H(Mars 10 State #505H)

WELLDRE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Nothing	Easting	Shape
7170(Mars 10 State #505H)	11160.9	856.9	-308.0	451249.00	739278.00	Point
PB-H(Mars 10 State #505H)	11171.0	5377.0	-334.0	456670.00	739248.00	Rectangle (Sides: L 0.0 W 0.0)





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Mars 10 State

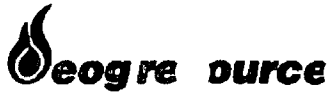
#505H

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: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
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	#505H					
Well Position	+N/-S	0.0 usft	Northing:	451,293.00 usft	Latitude:	32° 14' 18.045 N
	+E/-W	0.0 usft	Easting:	739,582.00 usft	Longitude:	103° 33' 30.507 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,594.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	10/21/2014	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	356.45

Survey Tool Program Date 1/27/2015

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	16,203.1	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



EOG Resources, Inc.

Survey Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Mars 10 State
Well: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
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)
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	287.24	4,600.0	0.3	-0.8	0.3	1.00	1.00	0.00
4,700.0	2.00	287.24	4,700.0	1.0	-3.3	1.2	1.00	1.00	0.00
4,778.8	2.79	287.24	4,778.7	2.0	-6.5	2.4	1.00	1.00	0.00
4,800.0	2.79	287.24	4,799.9	2.3	-7.5	2.8	0.00	0.00	0.00
4,900.0	2.79	287.24	4,899.7	3.8	-12.1	4.5	0.00	0.00	0.00
5,000.0	2.79	287.24	4,999.6	5.2	-16.8	6.2	0.00	0.00	0.00
5,100.0	2.79	287.24	5,099.5	6.6	-21.4	8.0	0.00	0.00	0.00
5,200.0	2.79	287.24	5,199.4	8.1	-26.0	9.7	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: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
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	2.79	287.24	5,299.3	9.5	-30.7	11.4	0.00	0.00	0.00
5,400.0	2.79	287.24	5,399.2	11.0	-35.3	13.1	0.00	0.00	0.00
5,500.0	2.79	287.24	5,499.0	12.4	-40.0	14.9	0.00	0.00	0.00
5,600.0	2.79	287.24	5,598.9	13.8	-44.8	16.6	0.00	0.00	0.00
5,700.0	2.79	287.24	5,698.8	15.3	-49.3	18.3	0.00	0.00	0.00
5,800.0	2.79	287.24	5,798.7	16.7	-53.9	20.0	0.00	0.00	0.00
5,900.0	2.79	287.24	5,898.6	18.2	-58.6	21.8	0.00	0.00	0.00
6,000.0	2.79	287.24	5,998.4	19.6	-63.2	23.5	0.00	0.00	0.00
6,100.0	2.79	287.24	6,098.3	21.1	-67.8	25.2	0.00	0.00	0.00
6,200.0	2.79	287.24	6,198.2	22.5	-72.5	26.9	0.00	0.00	0.00
6,300.0	2.79	287.24	6,298.1	23.9	-77.1	28.7	0.00	0.00	0.00
6,400.0	2.79	287.24	6,398.0	25.4	-81.8	30.4	0.00	0.00	0.00
6,500.0	2.79	287.24	6,497.9	26.8	-86.4	32.1	0.00	0.00	0.00
6,600.0	2.79	287.24	6,597.7	28.3	-91.1	33.9	0.00	0.00	0.00
6,700.0	2.79	287.24	6,697.6	29.7	-95.7	35.6	0.00	0.00	0.00
6,800.0	2.79	287.24	6,797.5	31.1	-100.4	37.3	0.00	0.00	0.00
6,900.0	2.79	287.24	6,897.4	32.6	-105.0	39.0	0.00	0.00	0.00
7,000.0	2.79	287.24	6,997.3	34.0	-109.7	40.8	0.00	0.00	0.00
7,100.0	2.79	287.24	7,097.1	35.5	-114.3	42.5	0.00	0.00	0.00
7,200.0	2.79	287.24	7,197.0	36.9	-118.9	44.2	0.00	0.00	0.00
7,300.0	2.79	287.24	7,296.9	38.3	-123.6	45.9	0.00	0.00	0.00
7,400.0	2.79	287.24	7,396.8	39.8	-128.2	47.7	0.00	0.00	0.00
7,500.0	2.79	287.24	7,496.7	41.2	-132.9	49.4	0.00	0.00	0.00
7,600.0	2.79	287.24	7,596.6	42.7	-137.5	51.1	0.00	0.00	0.00
7,700.0	2.79	287.24	7,696.4	44.1	-142.2	52.8	0.00	0.00	0.00
7,800.0	2.79	287.24	7,796.3	45.6	-146.8	54.6	0.00	0.00	0.00
7,900.0	2.79	287.24	7,896.2	47.0	-151.5	56.3	0.00	0.00	0.00
8,000.0	2.79	287.24	7,996.1	48.4	-156.1	58.0	0.00	0.00	0.00
8,100.0	2.79	287.24	8,096.0	49.9	-160.8	59.8	0.00	0.00	0.00
8,200.0	2.79	287.24	8,195.8	51.3	-165.4	61.5	0.00	0.00	0.00
8,300.0	2.79	287.24	8,295.7	52.8	-170.0	63.2	0.00	0.00	0.00
8,400.0	2.79	287.24	8,395.6	54.2	-174.7	64.9	0.00	0.00	0.00
8,500.0	2.79	287.24	8,495.5	55.6	-179.3	66.7	0.00	0.00	0.00
8,600.0	2.79	287.24	8,595.4	57.1	-184.0	68.4	0.00	0.00	0.00
8,700.0	2.79	287.24	8,695.2	58.5	-188.6	70.1	0.00	0.00	0.00
8,800.0	2.79	287.24	8,795.1	60.0	-193.3	71.8	0.00	0.00	0.00
8,900.0	2.79	287.24	8,895.0	61.4	-197.9	73.6	0.00	0.00	0.00
9,000.0	2.79	287.24	8,994.9	62.9	-202.6	75.3	0.00	0.00	0.00
9,100.0	2.79	287.24	9,094.8	64.3	-207.2	77.0	0.00	0.00	0.00
9,200.0	2.79	287.24	9,194.7	65.7	-211.8	78.7	0.00	0.00	0.00
9,300.0	2.79	287.24	9,294.5	67.2	-216.5	80.5	0.00	0.00	0.00
9,400.0	2.79	287.24	9,394.4	68.6	-221.1	82.2	0.00	0.00	0.00
9,500.0	2.79	287.24	9,494.3	70.1	-225.8	83.9	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: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
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	2.79	287.24	9,594.2	71.5	-230.4	85.6	0.00	0.00	0.00
9,700.0	2.79	287.24	9,694.1	72.9	-235.1	87.4	0.00	0.00	0.00
9,800.0	2.79	287.24	9,793.9	74.4	-239.7	89.1	0.00	0.00	0.00
9,900.0	2.79	287.24	9,893.8	75.8	-244.4	90.8	0.00	0.00	0.00
10,000.0	2.79	287.24	9,993.7	77.3	-249.0	92.6	0.00	0.00	0.00
10,100.0	2.79	287.24	10,093.6	78.7	-253.7	94.3	0.00	0.00	0.00
10,200.0	2.79	287.24	10,193.5	80.1	-258.3	96.0	0.00	0.00	0.00
10,300.0	2.79	287.24	10,293.4	81.6	-262.9	97.7	0.00	0.00	0.00
10,400.0	2.79	287.24	10,393.2	83.0	-267.6	99.5	0.00	0.00	0.00
10,500.0	2.79	287.24	10,493.1	84.5	-272.2	101.2	0.00	0.00	0.00
10,593.1	2.79	287.24	10,586.1	85.8	-276.6	102.8	0.00	0.00	0.00
10,600.0	3.07	299.70	10,593.0	86.0	-276.9	103.0	10.00	4.05	179.48
10,650.0	7.05	337.63	10,642.8	89.5	-279.2	106.6	10.00	7.97	75.87
10,700.0	11.83	346.87	10,692.1	97.3	-281.5	114.6	10.00	9.56	18.47
10,750.0	16.74	350.79	10,740.6	109.4	-283.9	126.8	10.00	9.82	7.85
10,800.0	21.68	352.97	10,787.8	125.7	-286.1	143.2	10.00	9.90	4.35
10,850.0	26.66	354.37	10,833.4	146.0	-288.4	163.6	10.00	9.94	2.79
10,900.0	31.64	355.35	10,877.0	170.3	-290.5	188.0	10.00	9.95	1.97
10,950.0	36.62	356.09	10,918.4	198.3	-292.6	216.0	10.00	9.97	1.48
11,000.0	41.60	356.68	10,957.2	229.7	-294.6	247.5	10.00	9.97	1.17
11,050.0	46.59	357.16	10,993.1	264.5	-296.5	282.3	10.00	9.98	0.96
11,100.0	51.58	357.56	11,025.8	302.2	-298.2	320.1	10.00	9.98	0.81
11,150.0	56.58	357.92	11,055.1	342.6	-299.8	360.6	10.00	9.98	0.71
11,200.0	61.57	358.23	11,080.8	385.5	-301.2	403.4	10.00	9.99	0.63
11,250.0	66.56	358.52	11,102.7	430.4	-302.5	448.4	10.00	9.99	0.57
11,300.0	71.56	358.78	11,120.5	477.1	-303.6	495.0	10.00	9.99	0.53
11,350.0	76.55	359.04	11,134.3	525.1	-304.5	543.0	10.00	9.99	0.50
11,400.0	81.54	359.28	11,143.8	574.2	-305.2	592.0	10.00	9.99	0.48
11,450.0	86.54	359.51	11,149.0	623.9	-305.8	641.7	10.00	9.99	0.47
11,482.1	89.75	359.66	11,150.0	656.0	-306.0	673.7	10.00	9.99	0.46
11,500.0	89.75	359.66	11,150.1	673.9	-306.1	691.6	0.00	0.00	0.00
11,600.0	89.75	359.66	11,150.5	773.9	-306.7	791.4	0.00	0.00	0.00
11,700.0	89.75	359.66	11,151.0	873.9	-307.3	891.3	0.00	0.00	0.00
11,800.0	89.75	359.66	11,151.4	973.9	-307.9	991.1	0.00	0.00	0.00
11,900.0	89.75	359.66	11,151.9	1,073.9	-308.5	1,091.0	0.00	0.00	0.00
12,000.0	89.75	359.66	11,152.3	1,173.9	-309.1	1,190.8	0.00	0.00	0.00
12,100.0	89.75	359.66	11,152.7	1,273.9	-309.7	1,290.6	0.00	0.00	0.00
12,200.0	89.75	359.66	11,153.2	1,373.9	-310.3	1,390.5	0.00	0.00	0.00
12,300.0	89.75	359.66	11,153.6	1,473.9	-310.9	1,490.3	0.00	0.00	0.00
12,400.0	89.75	359.66	11,154.1	1,573.9	-311.4	1,590.2	0.00	0.00	0.00
12,500.0	89.75	359.66	11,154.5	1,673.9	-312.0	1,690.0	0.00	0.00	0.00
12,600.0	89.75	359.66	11,155.0	1,773.9	-312.6	1,789.8	0.00	0.00	0.00
12,700.0	89.75	359.66	11,155.4	1,873.9	-313.2	1,889.7	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: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
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	1,973.9	-313.8	1,989.5	0.00	0.00	0.00
12,900.0	89.75	359.66	11,156.3	2,073.9	-314.4	2,089.4	0.00	0.00	0.00
13,000.0	89.75	359.66	11,156.8	2,173.9	-315.0	2,189.2	0.00	0.00	0.00
13,100.0	89.75	359.66	11,157.2	2,273.9	-315.6	2,289.1	0.00	0.00	0.00
13,200.0	89.75	359.66	11,157.6	2,373.9	-316.2	2,388.9	0.00	0.00	0.00
13,300.0	89.75	359.66	11,158.1	2,473.9	-316.8	2,488.7	0.00	0.00	0.00
13,400.0	89.75	359.66	11,158.5	2,573.9	-317.4	2,588.6	0.00	0.00	0.00
13,500.0	89.75	359.66	11,159.0	2,673.9	-318.0	2,688.4	0.00	0.00	0.00
13,600.0	89.75	359.66	11,159.4	2,773.8	-318.6	2,788.3	0.00	0.00	0.00
13,700.0	89.75	359.66	11,159.9	2,873.8	-319.2	2,888.1	0.00	0.00	0.00
13,800.0	89.75	359.66	11,160.3	2,973.8	-319.7	2,987.9	0.00	0.00	0.00
13,900.0	89.75	359.66	11,160.8	3,073.8	-320.3	3,087.8	0.00	0.00	0.00
14,000.0	89.75	359.66	11,161.2	3,173.8	-320.9	3,187.6	0.00	0.00	0.00
14,100.0	89.75	359.66	11,161.6	3,273.8	-321.5	3,287.5	0.00	0.00	0.00
14,200.0	89.75	359.66	11,162.1	3,373.8	-322.1	3,387.3	0.00	0.00	0.00
14,300.0	89.75	359.66	11,162.5	3,473.8	-322.7	3,487.2	0.00	0.00	0.00
14,400.0	89.75	359.66	11,163.0	3,573.8	-323.3	3,587.0	0.00	0.00	0.00
14,500.0	89.75	359.66	11,163.4	3,673.8	-323.9	3,686.8	0.00	0.00	0.00
14,600.0	89.75	359.66	11,163.9	3,773.8	-324.5	3,786.7	0.00	0.00	0.00
14,700.0	89.75	359.66	11,164.3	3,873.8	-325.1	3,886.5	0.00	0.00	0.00
14,800.0	89.75	359.66	11,164.8	3,973.8	-325.7	3,986.4	0.00	0.00	0.00
14,900.0	89.75	359.66	11,165.2	4,073.8	-326.3	4,086.2	0.00	0.00	0.00
15,000.0	89.75	359.66	11,165.6	4,173.8	-326.9	4,186.0	0.00	0.00	0.00
15,100.0	89.75	359.66	11,166.1	4,273.8	-327.5	4,285.9	0.00	0.00	0.00
15,200.0	89.75	359.66	11,166.5	4,373.8	-328.1	4,385.7	0.00	0.00	0.00
15,300.0	89.75	359.66	11,167.0	4,473.8	-328.6	4,485.6	0.00	0.00	0.00
15,400.0	89.75	359.66	11,167.4	4,573.8	-329.2	4,585.4	0.00	0.00	0.00
15,500.0	89.75	359.66	11,167.9	4,673.8	-329.8	4,685.3	0.00	0.00	0.00
15,600.0	89.75	359.66	11,168.3	4,773.8	-330.4	4,785.1	0.00	0.00	0.00
15,700.0	89.75	359.66	11,168.8	4,873.8	-331.0	4,884.9	0.00	0.00	0.00
15,800.0	89.75	359.66	11,169.2	4,973.8	-331.6	4,984.8	0.00	0.00	0.00
15,900.0	89.75	359.66	11,169.7	5,073.8	-332.2	5,084.6	0.00	0.00	0.00
16,000.0	89.75	359.66	11,170.1	5,173.8	-332.8	5,184.5	0.00	0.00	0.00
16,100.0	89.75	359.66	11,170.5	5,273.8	-333.4	5,284.3	0.00	0.00	0.00
16,203.2	89.75	359.66	11,171.0	5,377.0	-334.0	5,387.4	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: #505H
Wellbore: OH
Design: Plan #2

Local Co-ordinate Reference: Well #505H
TVD Reference: KB = 25' @ 3619.0usft
MD Reference: KB = 25' @ 3619.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP(Mars 10 State #505H)	0.00	0.00	11,150.0	656.0	-306.0	451,949.00	739,276.00	32° 14' 24.558 N	103° 33' 34.014 W
- plan hits target center									
- Point									
PBHL(Mars 10 State #505H)	90.25	359.66	11,171.0	5,377.0	-334.0	456,670.00	739,248.00	32° 15' 11.276 N	103° 33' 33.944 W
- plan hits target center									
- Rectangle (sides W50.0 H0.0 D4,721.0)									

Checked By: _____

Approved By: _____

Date: _____