

MAR 12 2014

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

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., Santa Fe, NM 87505
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

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025- 41717	² Pool Code 13320	³ Pool Name Corbin; Wolfcamp, South
⁴ Property Code 40454	⁵ Property Name MAYAN 16 STATE COM	⁶ Well Number #1H
⁷ OGRID No. 7377	⁸ Operator Name EOG RESOURCES, INC.	⁹ Elevation 3863'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	16	18-S	33-E	-	180'	SOUTH	960'	EAST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	18-S	33-E	-	560'	NORTH	960'	EAST	LEA

¹¹ Dedicated Acres	¹² Joint or Infill	¹³ Consolidation Code	¹⁴ Order No.
320			

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.

¹⁶	BOTTOM HOLE LOCATION NEW MEXICO EAST NAD 1927 X=706356 Y=638366 LAT.: N 32.7531653 LONG.: W 103.6621187	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Stan Wagner</i> 3/12/14 Signature Date Stan Wagner Printed Name E-mail Address	
	LOWER MOST PERF. NEW MEXICO EAST NAD 1927 X=706357 Y=638266 LAT.: N 32.7528900 LONG.: W 103.6621183		¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief. Date of Survey 02/24/2014 Signature of Surveyor <i>Michael E. Brown</i> Professional Surveyor Certificate Number 18329
	UPPER MOST PERF. NEW MEXICO EAST NAD 1927 X=706386 Y=634306 LAT.: N 32.7420048 LONG.: W 103.6621044		
	SURFACE LOCATION NEW MEXICO EAST NAD 1927 X=706390 Y=633826 LAT.: N 32.7406856 LONG.: W 103.6621026		

MAR 31 2014

Permit Information:

Well Name: Mayan 16 State Com No. 1H

Location:

SL: 180' FSL & 960' FEL, Section 16, T-18-S, R-33-E, Lea Co., N.M.

BHL: 560' FNL & 960' FEL, Section 16, T-18-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 - 1,512'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-5,200'	9.625"	40#	HCL80	LTC	1.125	1.25	1.60
8.75"	0'-16,035'	5.5"	17#	P110 or HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. ppg	Yld Ft ³ /ft	Slurry Description
1,512'	900	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)
	300	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,200'	1000	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
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
16,035'	375	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
	400	11.8	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
	1350	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:

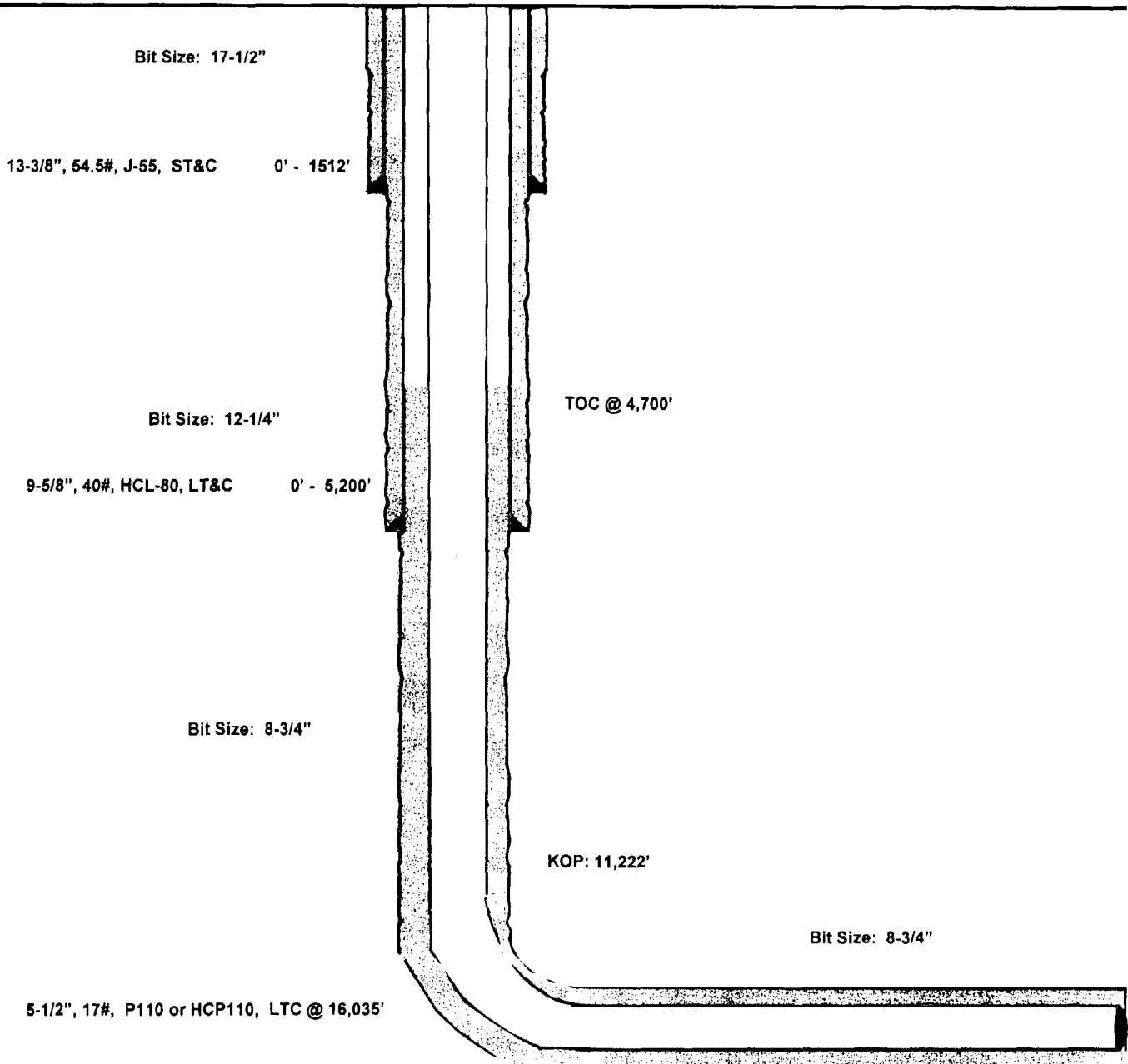
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,512'	Fresh - Gel	8.6-8.8	28-34	N/c
1,512' - 5,200'	Brine	10.0-10.2	28-34	N/c
5200' - 11,222'	Fresh Water	8.4-8.6	28-34	N/c
11,222' - 16,035' Lateral	Cut Brine	9.0-10.0	28-34	N/c

Mayan 16 State Com #1H
Lea County, New Mexico
Proposed Wellbore

180' FSL
960' FEL
Section 16
T-18-S, R-33-E

API: 30-025-*****

KB: 3,890'
GL: 3,863'



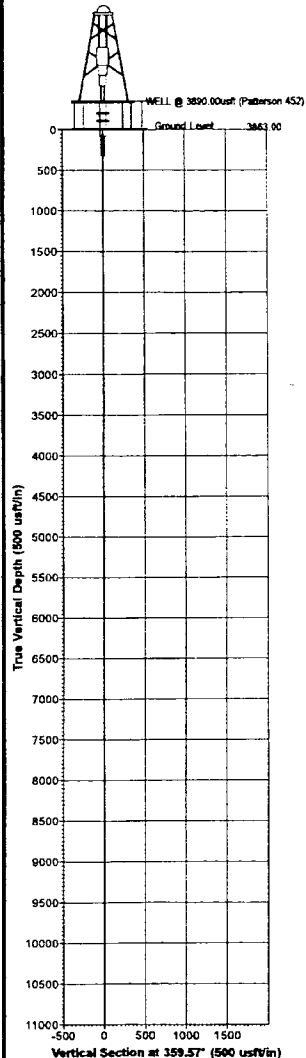
Lateral:
16,035' MD, 11,700' TVD
Upper Most Perf:
660' FSL & 960' FEL
Lower Most Perf:
660' FNL & 960' FEL
BH Location: 660' FNL & 960' FEL
Section 16
T-18-S, R-33-E



Project: Lea County, NM (NAD27 NME)
 Site: Mayan 16 State Com
 Well: #1H
 Wellbore: Wellbore #1 Job #1410436
 Design: Plan #1 03-10-14
 Rig: Patterson 452



Arbitrator to Grid North
 True North: -0.38°
 Magnetic North: 6.97°
 Magnetic Field
 Strength: 48639.9nT
 Dip Angle: 60.58°
 Date: 03/10/2014
 Model: IGRF2010_14



WELL DETAILS											
+N-S		+E-W		Northing	Ground Level		3863.00		Latitude	Longitude	
0.00		0.00		833826.00	Easting		706390.00		32° 44' 26.46594 N	103° 38' 43.56858 W	

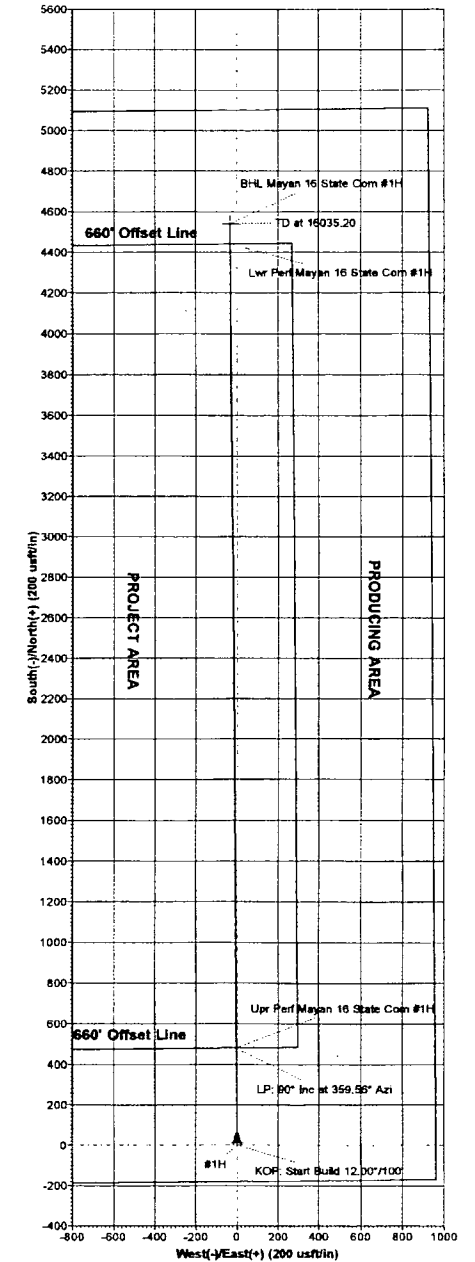
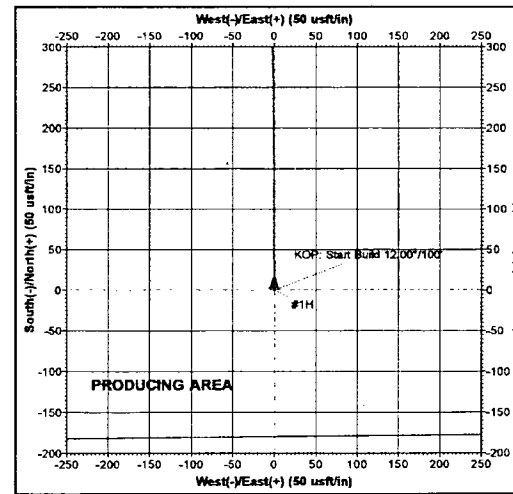
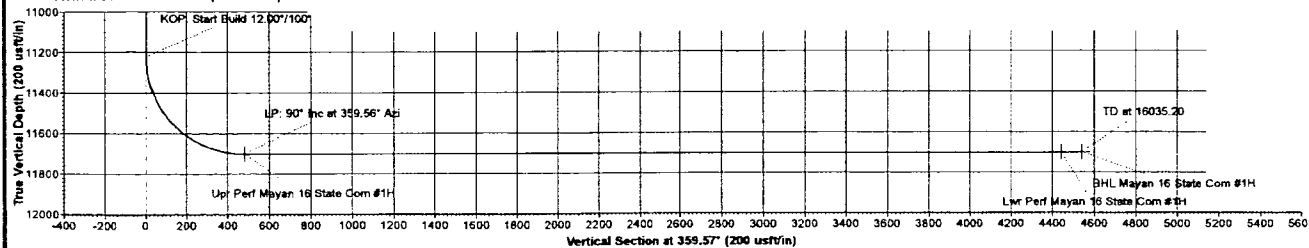
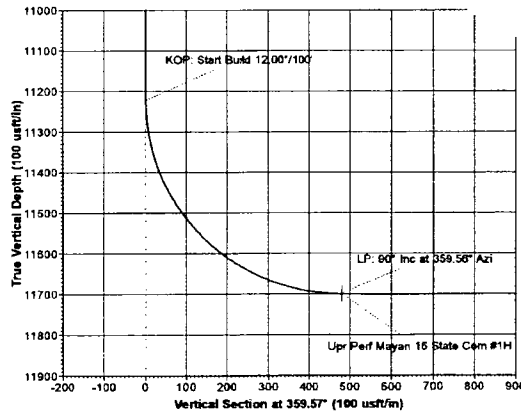
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TFace	VSec	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	11222.54	0.00	0.00	11222.54	0.00	0.00	0.00	0.00	0.00		KOP: Start Build 12.00°/100°
3	11972.54	90.00	359.57	11790.00	477.45	-3.58	12.00	359.57	477.46		LP: 90° Inc at 359.56° Azi
4	16035.20	90.00	359.57	11790.00	4540.00	-34.00	0.00	0.00	4540.13	BHL Mayan 16 State Com #1H	TD at 16035.20

DESIGN TARGET DETAILS											
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape			
BHL Mayan 16 State Com #1H	11700.00	4540.00	-34.00	838366.00	706356.00	32° 45' 11.38078 N	103° 38' 43.82973 W	Point			
Lwr Perf Mayan 16 State Com #1H	11700.00	4440.00	-33.00	838266.00	706357.00	32° 45' 10.40123 N	103° 38' 43.82551 W	Point			
Upr Perf Mayan 16 State Com #1H	11700.00	480.00	-4.00	834306.00	706386.00	32° 44' 31.21573 N	103° 38' 43.57980 W	Point			

Map System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone Name: New Mexico East 3001
 Local Origin: Well #1H, Grid North
 Latitude: 32° 44' 26.46594 N
 Longitude: 103° 38' 43.56858 W
 Grid East: 706390.00
 Grid North: 833826.00
 Scale Factor: 1.000
 Geomagnetic Model: IGRF2010_14
 Sample Date: 10-Mar-14
 Magnetic Declination: 7.33°
 Dip Angle from Horizontal: 60.58°
 Magnetic Field Strength: 48640
 To convert a Magnetic Direction to a Grid Direction, Add 6.97°
 To convert a Magnetic Direction to a True Direction, Add 7.33° East
 To convert a True Direction to a Grid Direction, Subtract 0.36°

LEGEND

— Plan #1 03-10-14



Created By: Justin Andrie Date: 13:48, March 10 2014



EOG Resources

Lea County, NM (NAD27 NME)

Mayan 16 State Com

#1H

Wellbore #1 Job #1410436

Plan: Plan #1 03-10-14

Planning Report

10 March, 2014





Phoenix Technology Services
Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Mayan 16 State Com
Well: #1H
Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3890.00usft (Patterson 452)
MD Reference: WELL @ 3890.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Project Lea County, NM (NAD27 NME)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Mayan 16 State Com

Site Position:		Northing:	633,826.00 usft	Latitude:	32° 44' 26.46594 N
From:	Map	Easting:	706,390.00 usft	Longitude:	103° 39' 43.56858 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.36 °

Well #1H

Well Position	+N-S	0.00 usft	Northing:	633,826.00 usft	Latitude:	32° 44' 26.46594 N
	+E-W	0.00 usft	Easting:	706,390.00 usft	Longitude:	103° 39' 43.56858 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,863.00 usft

Wellbore Wellbore #1 Job #1410436

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	03/10/14	7.33	60.58	48,640

Design Plan #1 03-10-14

Audit Notes:

Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.00	0.00	0.00	359.57

Survey Tool Program Date 03/10/14

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,035.20	Plan #1 03-10-14 (Wellbore #1 Job #1410)	MWD	MWD - Standard



Phoenix Technology Services
Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Mayan 16 State Com
Well: #1H
Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

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MD Reference: WELL @ 3890.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg ("/100usft)
0.00	0.00	0.00	-3,890.00	0.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
100.00	0.00	0.00	-3,790.00	100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
200.00	0.00	0.00	-3,690.00	200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
300.00	0.00	0.00	-3,590.00	300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
400.00	0.00	0.00	-3,490.00	400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
500.00	0.00	0.00	-3,390.00	500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
600.00	0.00	0.00	-3,290.00	600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
700.00	0.00	0.00	-3,190.00	700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
800.00	0.00	0.00	-3,090.00	800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
900.00	0.00	0.00	-2,990.00	900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,000.00	0.00	0.00	-2,890.00	1,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,100.00	0.00	0.00	-2,790.00	1,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,200.00	0.00	0.00	-2,690.00	1,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,300.00	0.00	0.00	-2,590.00	1,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,400.00	0.00	0.00	-2,490.00	1,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,500.00	0.00	0.00	-2,390.00	1,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,600.00	0.00	0.00	-2,290.00	1,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,700.00	0.00	0.00	-2,190.00	1,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,800.00	0.00	0.00	-2,090.00	1,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
1,900.00	0.00	0.00	-1,990.00	1,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,000.00	0.00	0.00	-1,890.00	2,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,100.00	0.00	0.00	-1,790.00	2,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,200.00	0.00	0.00	-1,690.00	2,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,300.00	0.00	0.00	-1,590.00	2,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,400.00	0.00	0.00	-1,490.00	2,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,500.00	0.00	0.00	-1,390.00	2,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,600.00	0.00	0.00	-1,290.00	2,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00



Phoenix Technology Services
Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Mayan 16 State Com
Well: #1H
Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3890.00usft (Patterson 452)
MD Reference: WELL @ 3890.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg ("/100usft)
2,700.00	0.00	0.00	-1,190.00	2,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,800.00	0.00	0.00	-1,090.00	2,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
2,900.00	0.00	0.00	-990.00	2,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,000.00	0.00	0.00	-890.00	3,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,100.00	0.00	0.00	-790.00	3,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,200.00	0.00	0.00	-690.00	3,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,300.00	0.00	0.00	-590.00	3,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,400.00	0.00	0.00	-490.00	3,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,500.00	0.00	0.00	-390.00	3,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,600.00	0.00	0.00	-290.00	3,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,700.00	0.00	0.00	-190.00	3,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,800.00	0.00	0.00	-90.00	3,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
3,900.00	0.00	0.00	10.00	3,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,000.00	0.00	0.00	110.00	4,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,100.00	0.00	0.00	210.00	4,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,200.00	0.00	0.00	310.00	4,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,300.00	0.00	0.00	410.00	4,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,400.00	0.00	0.00	510.00	4,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,500.00	0.00	0.00	610.00	4,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,600.00	0.00	0.00	710.00	4,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,700.00	0.00	0.00	810.00	4,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,800.00	0.00	0.00	910.00	4,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
4,900.00	0.00	0.00	1,010.00	4,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,000.00	0.00	0.00	1,110.00	5,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,100.00	0.00	0.00	1,210.00	5,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,200.00	0.00	0.00	1,310.00	5,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,300.00	0.00	0.00	1,410.00	5,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00



Phoenix Technology Services Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Mayan 16 State Com
Well: #1H
Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3890.00usft (Patterson 452)
MD Reference: WELL @ 3890.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	EW (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
5,400.00	0.00	0.00	1,510.00	5,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,500.00	0.00	0.00	1,610.00	5,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,600.00	0.00	0.00	1,710.00	5,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,700.00	0.00	0.00	1,810.00	5,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,800.00	0.00	0.00	1,910.00	5,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
5,900.00	0.00	0.00	2,010.00	5,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,000.00	0.00	0.00	2,110.00	6,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,100.00	0.00	0.00	2,210.00	6,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,200.00	0.00	0.00	2,310.00	6,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,300.00	0.00	0.00	2,410.00	6,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,400.00	0.00	0.00	2,510.00	6,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,500.00	0.00	0.00	2,610.00	6,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,600.00	0.00	0.00	2,710.00	6,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,700.00	0.00	0.00	2,810.00	6,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,800.00	0.00	0.00	2,910.00	6,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
6,900.00	0.00	0.00	3,010.00	6,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,000.00	0.00	0.00	3,110.00	7,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,100.00	0.00	0.00	3,210.00	7,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,200.00	0.00	0.00	3,310.00	7,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,300.00	0.00	0.00	3,410.00	7,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,400.00	0.00	0.00	3,510.00	7,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,500.00	0.00	0.00	3,610.00	7,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,600.00	0.00	0.00	3,710.00	7,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,700.00	0.00	0.00	3,810.00	7,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,800.00	0.00	0.00	3,910.00	7,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
7,900.00	0.00	0.00	4,010.00	7,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,000.00	0.00	0.00	4,110.00	8,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00



Phoenix Technology Services
Planning Report



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Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

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Planned Survey

MD (usft)	Inc (")	Azi (azimuth) (")	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg ("/100usft)
8,100.00	0.00	0.00	4,210.00	8,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,200.00	0.00	0.00	4,310.00	8,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,300.00	0.00	0.00	4,410.00	8,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,400.00	0.00	0.00	4,510.00	8,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,500.00	0.00	0.00	4,610.00	8,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,600.00	0.00	0.00	4,710.00	8,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,700.00	0.00	0.00	4,810.00	8,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,800.00	0.00	0.00	4,910.00	8,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
8,900.00	0.00	0.00	5,010.00	8,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,000.00	0.00	0.00	5,110.00	9,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,100.00	0.00	0.00	5,210.00	9,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,200.00	0.00	0.00	5,310.00	9,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,300.00	0.00	0.00	5,410.00	9,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,400.00	0.00	0.00	5,510.00	9,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,500.00	0.00	0.00	5,610.00	9,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,600.00	0.00	0.00	5,710.00	9,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,700.00	0.00	0.00	5,810.00	9,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,800.00	0.00	0.00	5,910.00	9,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
9,900.00	0.00	0.00	6,010.00	9,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,000.00	0.00	0.00	6,110.00	10,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,100.00	0.00	0.00	6,210.00	10,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,200.00	0.00	0.00	6,310.00	10,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,300.00	0.00	0.00	6,410.00	10,300.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,400.00	0.00	0.00	6,510.00	10,400.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,500.00	0.00	0.00	6,610.00	10,500.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,600.00	0.00	0.00	6,710.00	10,600.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,700.00	0.00	0.00	6,810.00	10,700.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00



Phoenix Technology Services Planning Report



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Design: Plan #1 03-10-14

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MD (usft)	Inc (")	Azi (azimuth) (")	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg ("/100usft)
10,800.00	0.00	0.00	6,910.00	10,800.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
10,900.00	0.00	0.00	7,010.00	10,900.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
11,000.00	0.00	0.00	7,110.00	11,000.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
11,100.00	0.00	0.00	7,210.00	11,100.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
11,200.00	0.00	0.00	7,310.00	11,200.00	0.00	0.00	633,826.00	706,390.00	0.00	0.00
11,222.54	0.00	0.00	7,332.54	11,222.54	0.00	0.00	633,826.00	706,390.00	0.00	0.00
KOP: Start Build 12.00"/100"										
11,225.00	0.30	359.57	7,335.00	11,225.00	0.01	0.00	633,826.01	706,390.00	0.01	12.00
11,250.00	3.30	359.57	7,359.98	11,249.98	0.79	-0.01	633,826.79	706,389.99	0.79	12.00
11,275.00	6.30	359.57	7,384.89	11,274.89	2.88	-0.02	633,828.88	706,389.98	2.88	12.00
11,300.00	9.30	359.57	7,409.66	11,299.66	6.27	-0.05	633,832.27	706,389.95	6.27	12.00
11,325.00	12.30	359.57	7,434.22	11,324.22	10.95	-0.08	633,836.95	706,389.92	10.95	12.00
11,350.00	15.30	359.57	7,458.49	11,348.49	16.91	-0.13	633,842.91	706,389.87	16.91	12.00
11,375.00	18.30	359.57	7,482.42	11,372.42	24.14	-0.18	633,850.14	706,389.82	24.14	12.00
11,400.00	21.30	359.57	7,505.94	11,395.94	32.60	-0.24	633,858.60	706,389.76	32.60	12.00
11,425.00	24.30	359.57	7,528.99	11,418.99	42.29	-0.32	633,868.29	706,389.68	42.29	12.00
11,450.00	27.30	359.57	7,551.49	11,441.49	53.16	-0.40	633,879.16	706,389.60	53.17	12.00
11,475.00	30.30	359.57	7,573.40	11,463.40	65.20	-0.49	633,891.20	706,389.51	65.21	12.00
11,500.00	33.30	359.57	7,594.64	11,484.64	78.37	-0.59	633,904.37	706,389.41	78.38	12.00
11,525.00	36.30	359.57	7,615.17	11,505.17	92.64	-0.69	633,918.64	706,389.31	92.64	12.00
11,550.00	39.30	359.57	7,634.93	11,524.93	107.96	-0.81	633,933.96	706,389.19	107.96	12.00
11,575.00	42.30	359.57	7,653.85	11,543.85	124.29	-0.93	633,950.29	706,389.07	124.29	12.00
11,600.00	45.30	359.57	7,671.89	11,561.89	141.59	-1.06	633,967.59	706,388.94	141.59	12.00
11,625.00	48.30	359.57	7,689.01	11,579.01	159.81	-1.20	633,985.81	706,388.80	159.81	12.00
11,650.00	51.30	359.57	7,705.14	11,595.14	178.90	-1.34	634,004.90	706,388.66	178.91	12.00
11,675.00	54.30	359.57	7,720.26	11,610.26	198.81	-1.49	634,024.81	706,388.51	198.82	12.00
11,700.00	57.30	359.57	7,734.31	11,624.31	219.48	-1.64	634,045.48	706,388.36	219.49	12.00



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Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
11,725.00	60.30	359.57	7,747.26	11,637.26	240.86	-1.80	634,066.86	706,388.20	240.87	12.00
11,750.00	63.30	359.57	7,759.07	11,649.07	262.89	-1.97	634,088.89	706,388.03	262.90	12.00
11,775.00	66.30	359.57	7,769.72	11,659.72	285.51	-2.14	634,111.51	706,387.86	285.52	12.00
11,800.00	69.30	359.57	7,779.16	11,669.16	308.65	-2.31	634,134.65	706,387.69	308.66	12.00
11,825.00	72.30	359.57	7,787.39	11,677.39	332.26	-2.49	634,158.26	706,387.51	332.27	12.00
11,850.00	75.30	359.57	7,794.36	11,684.36	356.26	-2.67	634,182.26	706,387.33	356.27	12.00
11,875.00	78.30	359.57	7,800.07	11,690.07	380.60	-2.85	634,206.60	706,387.15	380.61	12.00
11,900.00	81.30	359.57	7,804.50	11,694.50	405.20	-3.03	634,231.20	706,386.97	405.21	12.00
11,925.00	84.30	359.57	7,807.64	11,697.64	430.00	-3.22	634,256.00	706,386.78	430.01	12.00
11,950.00	87.30	359.57	7,809.47	11,699.47	454.93	-3.41	634,280.93	706,386.59	454.94	12.00
11,972.54	90.00	359.57	7,810.00	11,700.00	477.45	-3.58	634,303.45	706,386.42	477.46	12.00
LP: 90° Inc at 359.56° Azi										
12,000.00	90.00	359.57	7,810.00	11,700.00	504.92	-3.78	634,330.92	706,386.22	504.93	0.00
12,100.00	90.00	359.57	7,810.00	11,700.00	604.91	-4.53	634,430.91	706,385.47	604.93	0.00
12,200.00	90.00	359.57	7,810.00	11,700.00	704.91	-5.28	634,530.91	706,384.72	704.93	0.00
12,300.00	90.00	359.57	7,810.00	11,700.00	804.91	-6.03	634,630.91	706,383.97	804.93	0.00
12,400.00	90.00	359.57	7,810.00	11,700.00	904.90	-6.78	634,730.90	706,383.22	904.93	0.00
12,500.00	90.00	359.57	7,810.00	11,700.00	1,004.90	-7.53	634,830.90	706,382.47	1,004.93	0.00
12,600.00	90.00	359.57	7,810.00	11,700.00	1,104.90	-8.27	634,930.90	706,381.73	1,104.93	0.00
12,700.00	90.00	359.57	7,810.00	11,700.00	1,204.90	-9.02	635,030.90	706,380.98	1,204.93	0.00
12,800.00	90.00	359.57	7,810.00	11,700.00	1,304.89	-9.77	635,130.89	706,380.23	1,304.93	0.00
12,900.00	90.00	359.57	7,810.00	11,700.00	1,404.89	-10.52	635,230.89	706,379.48	1,404.93	0.00
13,000.00	90.00	359.57	7,810.00	11,700.00	1,504.89	-11.27	635,330.89	706,378.73	1,504.93	0.00
13,100.00	90.00	359.57	7,810.00	11,700.00	1,604.88	-12.02	635,430.88	706,377.98	1,604.93	0.00
13,200.00	90.00	359.57	7,810.00	11,700.00	1,704.88	-12.77	635,530.88	706,377.23	1,704.93	0.00
13,300.00	90.00	359.57	7,810.00	11,700.00	1,804.88	-13.52	635,630.88	706,376.48	1,804.93	0.00
13,400.00	90.00	359.57	7,810.00	11,700.00	1,904.88	-14.27	635,730.88	706,375.73	1,904.93	0.00



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13,500.00	90.00	359.57	7,810.00	11,700.00	2,004.87	-15.01	635,830.87	706,374.99	2,004.93	0.00
13,600.00	90.00	359.57	7,810.00	11,700.00	2,104.87	-15.76	635,930.87	706,374.24	2,104.93	0.00
13,700.00	90.00	359.57	7,810.00	11,700.00	2,204.87	-16.51	636,030.87	706,373.49	2,204.93	0.00
13,800.00	90.00	359.57	7,810.00	11,700.00	2,304.87	-17.26	636,130.87	706,372.74	2,304.93	0.00
13,900.00	90.00	359.57	7,810.00	11,700.00	2,404.86	-18.01	636,230.86	706,371.99	2,404.93	0.00
14,000.00	90.00	359.57	7,810.00	11,700.00	2,504.86	-18.76	636,330.86	706,371.24	2,504.93	0.00
14,100.00	90.00	359.57	7,810.00	11,700.00	2,604.86	-19.51	636,430.86	706,370.49	2,604.93	0.00
14,200.00	90.00	359.57	7,810.00	11,700.00	2,704.85	-20.26	636,530.85	706,369.74	2,704.93	0.00
14,300.00	90.00	359.57	7,810.00	11,700.00	2,804.85	-21.01	636,630.85	706,368.99	2,804.93	0.00
14,400.00	90.00	359.57	7,810.00	11,700.00	2,904.85	-21.75	636,730.85	706,368.25	2,904.93	0.00
14,500.00	90.00	359.57	7,810.00	11,700.00	3,004.85	-22.50	636,830.85	706,367.50	3,004.93	0.00
14,600.00	90.00	359.57	7,810.00	11,700.00	3,104.84	-23.25	636,930.84	706,366.75	3,104.93	0.00
14,700.00	90.00	359.57	7,810.00	11,700.00	3,204.84	-24.00	637,030.84	706,366.00	3,204.93	0.00
14,800.00	90.00	359.57	7,810.00	11,700.00	3,304.84	-24.75	637,130.84	706,365.25	3,304.93	0.00
14,900.00	90.00	359.57	7,810.00	11,700.00	3,404.83	-25.50	637,230.83	706,364.50	3,404.93	0.00
15,000.00	90.00	359.57	7,810.00	11,700.00	3,504.83	-26.25	637,330.83	706,363.75	3,504.93	0.00
15,100.00	90.00	359.57	7,810.00	11,700.00	3,604.83	-27.00	637,430.83	706,363.00	3,604.93	0.00
15,200.00	90.00	359.57	7,810.00	11,700.00	3,704.83	-27.75	637,530.83	706,362.25	3,704.93	0.00
15,300.00	90.00	359.57	7,810.00	11,700.00	3,804.82	-28.49	637,630.82	706,361.51	3,804.93	0.00
15,400.00	90.00	359.57	7,810.00	11,700.00	3,904.82	-29.24	637,730.82	706,360.76	3,904.93	0.00
15,500.00	90.00	359.57	7,810.00	11,700.00	4,004.82	-29.99	637,830.82	706,360.01	4,004.93	0.00
15,600.00	90.00	359.57	7,810.00	11,700.00	4,104.81	-30.74	637,930.81	706,359.26	4,104.93	0.00
15,700.00	90.00	359.57	7,810.00	11,700.00	4,204.81	-31.49	638,030.81	706,358.51	4,204.93	0.00
15,800.00	90.00	359.57	7,810.00	11,700.00	4,304.81	-32.24	638,130.81	706,357.76	4,304.93	0.00
15,900.00	90.00	359.57	7,810.00	11,700.00	4,404.81	-32.99	638,230.81	706,357.01	4,404.93	0.00
16,000.00	90.00	359.57	7,810.00	11,700.00	4,504.80	-33.74	638,330.80	706,356.26	4,504.93	0.00



Phoenix Technology Services
Planning Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Mayan 16 State Com
Well: #1H
Wellbore: Wellbore #1 Job #1410436
Design: Plan #1 03-10-14

Local Co-ordinate Reference: Well #1H
TVD Reference: WELL @ 3890.00usft (Patterson 452)
MD Reference: WELL @ 3890.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

Planned Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLeg (°/100usft)
16,035.20	90.00	359.57	7,810.00	11,700.00	4,540.00	-34.00	638,366.00	706,356.00	4,540.13	0.00
TD at 16035.20										

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,222.54	11,222.54	0.00	0.00	KOP: Start Build 12.00°/100'
11,972.54	11,700.00	477.45	-3.58	LP: 90° Inc at 359.56° Azi
16,035.20	11,700.00	4,540.00	-34.00	TD at 16035.20

Checked By: _____ Approved By: _____ Date: _____

EOG RESOURCES, INC.
MAYAN 16 STATE COM #1H

Hydrogen Sulfide Plan Summary

- A. All personnel shall receive proper H₂S training in accordance with Onshore Order III.C.3.a.
- B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.
- C. Required Emergency Equipment:

- Well control equipment
 - a. Flare line 150' from wellhead to be ignited by flare gun.
 - b. Choke manifold with a remotely operated choke.
 - c. Mud/gas separator

- Protective equipment for essential personnel.

Breathing apparatus:

- a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
- b. Work/Escapes packs — 4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
- c. Emergency Escape Packs — 4 packs shall be stored in the doghouse for emergency evacuation.

Auxiliary Rescue Equipment:

- a. Stretcher
- b. Two OSHA full body harness
- c. 100 ft 5/8 inch OSHA approved rope
- d. 1-20# class ABC fire extinguisher

- H₂S detection and monitoring equipment:

The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.

(Gas sample tubes will be stored in the safety trailer)

- Visual warning systems.
 - a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
 - b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
 - c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
MAYAN 16 STATE COM #1H

- **Mud program:**
The mud program has been designed to minimize the volume of H₂S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H₂S bearing zones.
- **Metallurgy:**
All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H₂S service.
- **Communication:**
Communication will be via cell phones and land lines where available.

**EOG RESOURCES, INC.
MAYAN 16 STATE COM #1H**

Emergency Assistance Telephone List

PUBLIC SAFETY: **911 or**

Lea County Sheriff's Department	(575) 396-3611
Rod Coffman	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.

EOG / Midland	Office (432) 686-3600
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Company Drilling Consultants:

Lonnie Byrd	Cell (432) 894-2389
Rickie Poindexter	

Drilling Engineer

Robert Brosig	Office (432) 686-3737
	Cell (432) 770-0705

Drilling Manager

Steve Munsell	Office (432) 686-3609
	Cell (432) 894-1256

Drilling Superintendent

Ron Welch	Office (432) 686-3695
	Cell (432) 386-0592

Cactus Drilling

Patterson Drilling	Office (432) 682-9401
Patterson 452 Drilling Rig	Rig (432) 894-2389

Tool Pusher:

Robert Merchant	Cell (903) 477-3751
Patrick Ford	Cell (903) 539-7889

Safety

Reggie Phillips (HSE Manager)	Office (432) 686-3747
	Cell (432) 250-7507