

MAY 24 2014

Revised Permit Information:

Well Name: Mayan 16 State Com No. 1H

Location:

SL: 203' FSL & 960' FEL, Section 16, T-18-S, R-33-E, Lea Co., N.M.

BHL: 410' 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'-16,162'	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
16,162'	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:

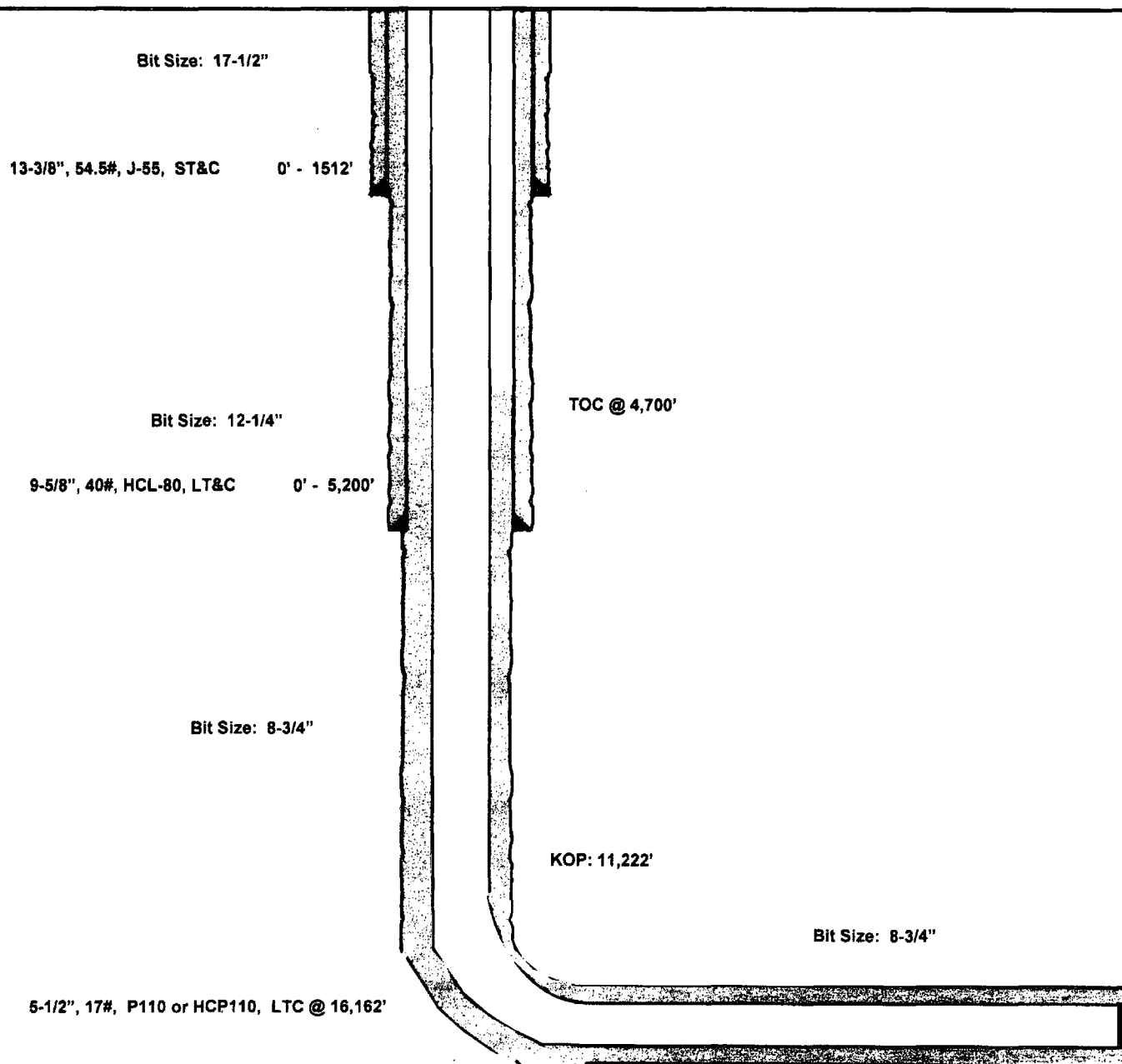
Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 - 1,512'	Fresh - Gel	8.6-8.8	28-34	N/c
1,512' - 5,200'	Brine	10.0-10.2	28-34	N/c
5200' - 11,222'	Fresh Water	8.4-8.6	28-34	N/c
11,222' - 16,162' Lateral	Cut Brine	9.0-10.0	28-34	N/c

Mayan 16 State Com #1H
Lea County, New Mexico
Proposed Wellbore
Revised 5/1/14

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

API: 30-025-*****

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



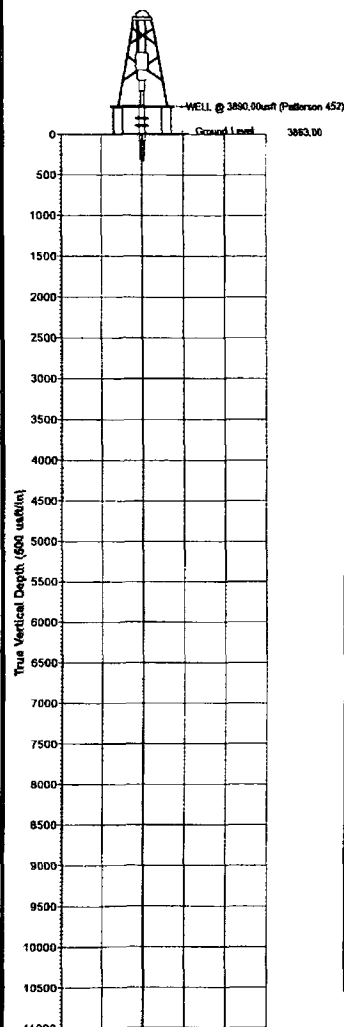
Lateral:
16,162' MD, 11,700' TVD
Upper Most Perf:
510' FSL & 960' FEL
Lower Most Perf:
510' FNL & 960' FEL
BH Location: 410' FNL & 960' FEL
Section 16
T-18-S, R-33-E



Project: Lea County, (NAD27)
 Site: Mayan 16 State Com
 Well: #1H
 Wellbore: Wellbore #1 Job #1410436
 Design: Plan #2 05-01-14
 Rig: Patterson 452



Azimuths to Grid North
 True North: -0.38°
 Magnetic North: 6.95°
 Magnetic Field
 Strength: 48625.5nT
 Dip Angle: 60.58°
 Date: 05/01/2014
 Model: IGRF2010_14



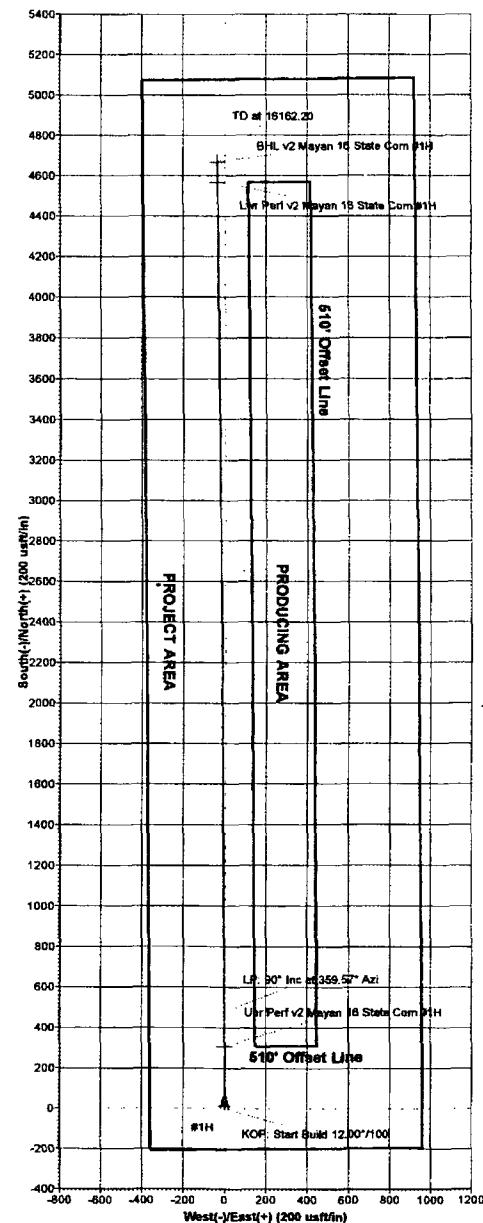
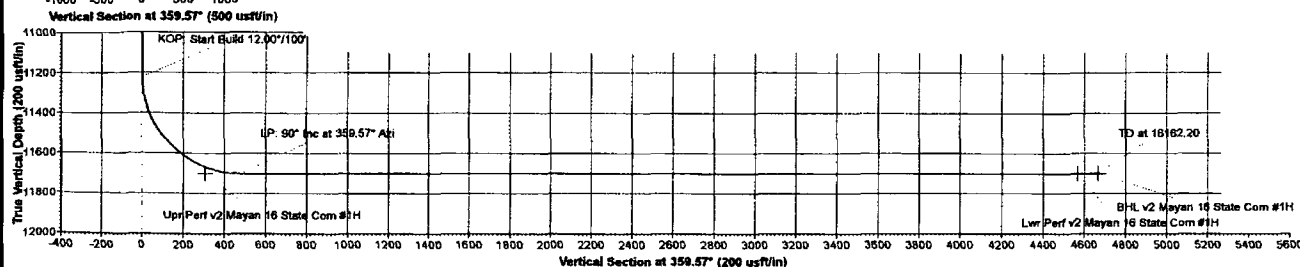
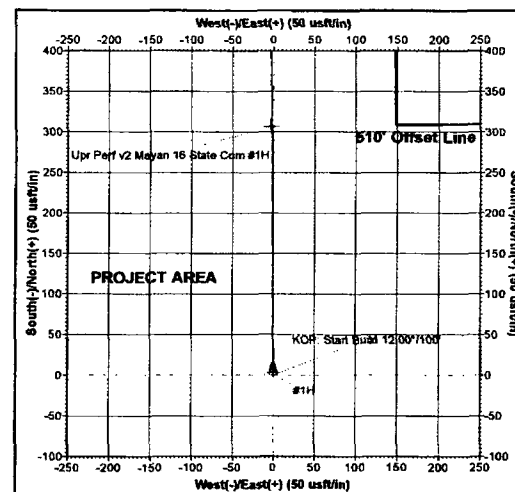
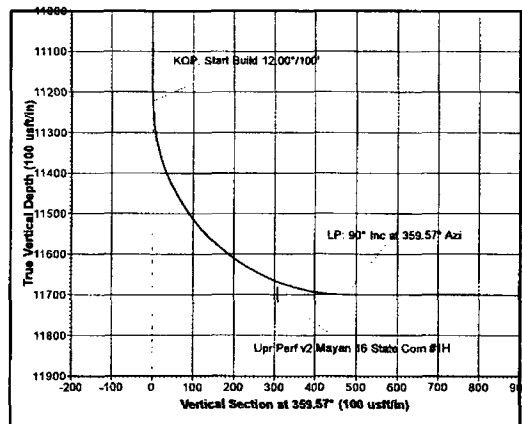
WELL DETAILS						
	+N-S	+E-W	North	Ground Level	Latitude	Longitude
	0.00	0.00	833649.00	706390.00	32° 44' 26.69352 N	103° 39' 43.56687 W

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diag	TTrace	VSecl	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	11922.54	0.00	0.00	11222.54	0.00	0.00	0.00	0.00	0.00	KOP: Start Build 12.00°/100'
3	11972.34	90.00	359.57	11700.00	477.45	-3.58	12.00	359.57	477.45	LP: 90° Inc at 359.57° Azi
4	16162.20	90.00	359.57	11700.00	4667.00	-35.00	0.00	4667.13	BHL v2 Mayan 16 State Com #1H TD at 16162.20	

DESIGN TARGET DETAILS									
Name	TVD	+N-S	+E-W	North	East	Latitude	Longitude	Shape	
BHL v2 Mayan 16 State Com #1H	11700.00	4667.00	-35.00	834518.00	706395.00	32° 45' 12.87507 N	103° 38' 43.63037 W	Point	
Lw Perf v2 Mayan 16 State Com #1H	11700.00	4567.00	-34.00	834416.00	706358.00	32° 45' 11.86502 N	103° 38' 43.62608 W	Point	
Upr Perf v2 Mayan 16 State Com #1H	11700.00	307.00	-3.00	834156.00	706387.00	32° 44' 28.73143 N	103° 39' 43.57922 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' 26.69352 N
 Longitude: 103° 39' 43.56687 W
 Grid East: 706390.00
 Grid North: 833649.00
 Scale Factor: 1.000
 Geomagnetic Model: IGRF2010_14
 Sample Date: 01-May-14
 Magnetic Declination: 7.31°
 Dip Angle from Horizontal: 60.58°
 Magnetic Field Strength: 48625
 To convert a Magnetic Direction to a Grid Direction, Add 6.95°
 To convert a Magnetic Direction to a True Direction, Add 7.31° East
 To convert a True Direction to a Grid Direction, Subtract 0.36°

LEGEND
 — Plan #2 05-01-14





EOG Resources

Lea County, NM (NAD27 NME)

Mayan 16 State Com

#1H

Wellbore #1 Job #1410436

Plan: Plan #2 05-01-14

Planning Report

01 May, 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 #2 05-01-14

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)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Mayan 16 State Com		
Site Position:		Northing:	633,849.00 usft
From:	Map	Easting:	706,390.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 44' 26.69352 N
		Longitude:	103° 39' 43.56687 W
		Grid Convergence:	0.36 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing: 633,849.00 usft
	+E/-W	0.00 usft	Easting: 706,390.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 44' 26.69352 N
		Longitude:	103° 39' 43.56687 W
		Ground Level:	3,863.00 usft

Wellbore	Wellbore #1 Job #1410436				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	05/01/14	7.31	60.58	48,626

Design	Plan #2 05-01-14			
Audit Notes:				
Version:	Phase:	PLAN	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	05/01/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	16,162.20	Plan #2 05-01-14 (Wellbore #1 Job #1410)	MWD	MWD - Standard



Phoenix Technology Services
Planning Report



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Site: Mayan 16 State Com
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Wellbore: Wellbore #1 Job #1410436
Design: Plan #2 05-01-14

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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)	EW (usft)	Northing (usft)	Easting (usft)	V. Sec (usft)	DLog (°/100usft)
0.00	0.00	0.00	-3,890.00	0.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
100.00	0.00	0.00	-3,790.00	100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
200.00	0.00	0.00	-3,690.00	200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
300.00	0.00	0.00	-3,590.00	300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
400.00	0.00	0.00	-3,490.00	400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
500.00	0.00	0.00	-3,390.00	500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
600.00	0.00	0.00	-3,290.00	600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
700.00	0.00	0.00	-3,190.00	700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
800.00	0.00	0.00	-3,090.00	800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
900.00	0.00	0.00	-2,990.00	900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,000.00	0.00	0.00	-2,890.00	1,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,100.00	0.00	0.00	-2,790.00	1,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,200.00	0.00	0.00	-2,690.00	1,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,300.00	0.00	0.00	-2,590.00	1,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,400.00	0.00	0.00	-2,490.00	1,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,500.00	0.00	0.00	-2,390.00	1,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,600.00	0.00	0.00	-2,290.00	1,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,700.00	0.00	0.00	-2,190.00	1,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,800.00	0.00	0.00	-2,090.00	1,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
1,900.00	0.00	0.00	-1,990.00	1,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,000.00	0.00	0.00	-1,890.00	2,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,100.00	0.00	0.00	-1,790.00	2,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,200.00	0.00	0.00	-1,690.00	2,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,300.00	0.00	0.00	-1,590.00	2,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,400.00	0.00	0.00	-1,490.00	2,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,500.00	0.00	0.00	-1,390.00	2,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,600.00	0.00	0.00	-1,290.00	2,600.00	0.00	0.00	633,849.00	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 #2 05-01-14

Local Co-ordinate Reference: Well #1H
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2,700.00	0.00	0.00	-1,190.00	2,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,800.00	0.00	0.00	-1,090.00	2,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
2,900.00	0.00	0.00	-990.00	2,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,000.00	0.00	0.00	-890.00	3,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,100.00	0.00	0.00	-790.00	3,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,200.00	0.00	0.00	-690.00	3,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,300.00	0.00	0.00	-590.00	3,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,400.00	0.00	0.00	-490.00	3,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,500.00	0.00	0.00	-390.00	3,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,600.00	0.00	0.00	-290.00	3,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,700.00	0.00	0.00	-190.00	3,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,800.00	0.00	0.00	-90.00	3,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
3,900.00	0.00	0.00	10.00	3,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,000.00	0.00	0.00	110.00	4,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,100.00	0.00	0.00	210.00	4,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,200.00	0.00	0.00	310.00	4,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,300.00	0.00	0.00	410.00	4,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,400.00	0.00	0.00	510.00	4,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,500.00	0.00	0.00	610.00	4,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,600.00	0.00	0.00	710.00	4,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,700.00	0.00	0.00	810.00	4,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,800.00	0.00	0.00	910.00	4,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
4,900.00	0.00	0.00	1,010.00	4,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,000.00	0.00	0.00	1,110.00	5,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,100.00	0.00	0.00	1,210.00	5,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,200.00	0.00	0.00	1,310.00	5,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,300.00	0.00	0.00	1,410.00	5,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00



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Planning Report



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5,400.00	0.00	0.00	1,510.00	5,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,500.00	0.00	0.00	1,610.00	5,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,600.00	0.00	0.00	1,710.00	5,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,700.00	0.00	0.00	1,810.00	5,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,800.00	0.00	0.00	1,910.00	5,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
5,900.00	0.00	0.00	2,010.00	5,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,000.00	0.00	0.00	2,110.00	6,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,100.00	0.00	0.00	2,210.00	6,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,200.00	0.00	0.00	2,310.00	6,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,300.00	0.00	0.00	2,410.00	6,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,400.00	0.00	0.00	2,510.00	6,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,500.00	0.00	0.00	2,610.00	6,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,600.00	0.00	0.00	2,710.00	6,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,700.00	0.00	0.00	2,810.00	6,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,800.00	0.00	0.00	2,910.00	6,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
6,900.00	0.00	0.00	3,010.00	6,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,000.00	0.00	0.00	3,110.00	7,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,100.00	0.00	0.00	3,210.00	7,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,200.00	0.00	0.00	3,310.00	7,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,300.00	0.00	0.00	3,410.00	7,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,400.00	0.00	0.00	3,510.00	7,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,500.00	0.00	0.00	3,610.00	7,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,600.00	0.00	0.00	3,710.00	7,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,700.00	0.00	0.00	3,810.00	7,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,800.00	0.00	0.00	3,910.00	7,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
7,900.00	0.00	0.00	4,010.00	7,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,000.00	0.00	0.00	4,110.00	8,000.00	0.00	0.00	633,849.00	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 #2 05-01-14

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)	DLog ("/100usft)
8,100.00	0.00	0.00	4,210.00	8,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,200.00	0.00	0.00	4,310.00	8,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,300.00	0.00	0.00	4,410.00	8,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,400.00	0.00	0.00	4,510.00	8,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,500.00	0.00	0.00	4,610.00	8,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,600.00	0.00	0.00	4,710.00	8,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,700.00	0.00	0.00	4,810.00	8,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,800.00	0.00	0.00	4,910.00	8,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
8,900.00	0.00	0.00	5,010.00	8,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,000.00	0.00	0.00	5,110.00	9,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,100.00	0.00	0.00	5,210.00	9,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,200.00	0.00	0.00	5,310.00	9,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,300.00	0.00	0.00	5,410.00	9,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,400.00	0.00	0.00	5,510.00	9,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,500.00	0.00	0.00	5,610.00	9,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,600.00	0.00	0.00	5,710.00	9,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,700.00	0.00	0.00	5,810.00	9,700.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,800.00	0.00	0.00	5,910.00	9,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
9,900.00	0.00	0.00	6,010.00	9,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,000.00	0.00	0.00	6,110.00	10,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,100.00	0.00	0.00	6,210.00	10,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,200.00	0.00	0.00	6,310.00	10,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,300.00	0.00	0.00	6,410.00	10,300.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,400.00	0.00	0.00	6,510.00	10,400.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,500.00	0.00	0.00	6,610.00	10,500.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,600.00	0.00	0.00	6,710.00	10,600.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,700.00	0.00	0.00	6,810.00	10,700.00	0.00	0.00	633,849.00	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
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Wellbore: Wellbore #1 Job #1410436
Design: Plan #2 05-01-14

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10,800.00	0.00	0.00	6,910.00	10,800.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
10,900.00	0.00	0.00	7,010.00	10,900.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
11,000.00	0.00	0.00	7,110.00	11,000.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
11,100.00	0.00	0.00	7,210.00	11,100.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
11,200.00	0.00	0.00	7,310.00	11,200.00	0.00	0.00	633,849.00	706,390.00	0.00	0.00
11,222.54	0.00	0.00	7,332.54	11,222.54	0.00	0.00	633,849.00	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	633,849.01	706,390.00	0.01	12.00
11,250.00	3.30	359.57	7,359.98	11,249.98	0.79	-0.01	633,849.79	706,389.99	0.79	12.00
11,275.00	6.30	359.57	7,384.89	11,274.89	2.88	-0.02	633,851.88	706,389.98	2.88	12.00
11,300.00	9.30	359.57	7,409.66	11,299.66	6.27	-0.05	633,855.27	706,389.95	6.27	12.00
11,325.00	12.30	359.57	7,434.22	11,324.22	10.95	-0.08	633,859.95	706,389.92	10.95	12.00
11,350.00	15.30	359.57	7,458.49	11,348.49	16.91	-0.13	633,865.91	706,389.87	16.91	12.00
11,375.00	18.30	359.57	7,482.42	11,372.42	24.14	-0.18	633,873.14	706,389.82	24.14	12.00
11,400.00	21.30	359.57	7,505.94	11,395.94	32.60	-0.24	633,881.60	706,389.76	32.60	12.00
11,425.00	24.30	359.57	7,528.99	11,418.99	42.29	-0.32	633,891.29	706,389.68	42.29	12.00
11,450.00	27.30	359.57	7,551.49	11,441.49	53.16	-0.40	633,902.16	706,389.60	53.17	12.00
11,475.00	30.30	359.57	7,573.40	11,463.40	65.20	-0.49	633,914.20	706,389.51	65.21	12.00
11,500.00	33.30	359.57	7,594.64	11,484.64	78.37	-0.59	633,927.37	706,389.41	78.38	12.00
11,525.00	36.30	359.57	7,615.17	11,505.17	92.64	-0.69	633,941.64	706,389.31	92.64	12.00
11,550.00	39.30	359.57	7,634.93	11,524.93	107.96	-0.81	633,956.96	706,389.19	107.96	12.00
11,575.00	42.30	359.57	7,653.85	11,543.85	124.29	-0.93	633,973.29	706,389.07	124.29	12.00
11,600.00	45.30	359.57	7,671.89	11,561.89	141.59	-1.06	633,990.59	706,388.94	141.59	12.00
11,625.00	48.30	359.57	7,689.01	11,579.01	159.81	-1.20	634,008.81	706,388.80	159.81	12.00
11,650.00	51.30	359.57	7,705.14	11,595.14	178.90	-1.34	634,027.90	706,388.66	178.91	12.00
11,675.00	54.30	359.57	7,720.26	11,610.26	198.81	-1.49	634,047.81	706,388.51	198.82	12.00
11,700.00	57.30	359.57	7,734.31	11,624.31	219.48	-1.65	634,068.48	706,388.35	219.49	12.00



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Site: Mayan 16 State Com
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Design: Plan #2 05-01-14

Local Co-ordinate Reference: Well #1H
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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)	DLog (°/100usft)
11,725.00	60.30	359.57	7,747.26	11,637.26	240.86	-1.81	634,089.86	706,388.19	240.87	12.00
11,750.00	63.30	359.57	7,759.07	11,649.07	262.89	-1.97	634,111.89	706,388.03	262.90	12.00
11,775.00	66.30	359.57	7,769.72	11,659.72	285.51	-2.14	634,134.51	706,387.86	285.52	12.00
11,800.00	69.30	359.57	7,779.16	11,669.16	308.65	-2.31	634,157.65	706,387.69	308.66	12.00
11,825.00	72.30	359.57	7,787.39	11,677.39	332.26	-2.49	634,181.26	706,387.51	332.27	12.00
11,850.00	75.30	359.57	7,794.36	11,684.36	356.26	-2.67	634,205.26	706,387.33	356.27	12.00
11,875.00	78.30	359.57	7,800.07	11,690.07	380.60	-2.85	634,229.60	706,387.15	380.61	12.00
11,900.00	81.30	359.57	7,804.50	11,694.50	405.20	-3.04	634,254.20	706,386.96	405.21	12.00
11,925.00	84.30	359.57	7,807.64	11,697.64	430.00	-3.22	634,279.00	706,386.78	430.01	12.00
11,950.00	87.30	359.57	7,809.47	11,699.47	454.93	-3.41	634,303.93	706,386.59	454.94	12.00
11,972.54	90.00	359.57	7,810.00	11,700.00	477.45	-3.58	634,326.45	706,386.42	477.46	12.00
LP: 90° Inc at 359.57° Azi										
12,000.00	90.00	359.57	7,810.00	11,700.00	504.92	-3.79	634,353.92	706,386.21	504.93	0.00
12,100.00	90.00	359.57	7,810.00	11,700.00	604.91	-4.54	634,453.91	706,385.46	604.93	0.00
12,200.00	90.00	359.57	7,810.00	11,700.00	704.91	-5.29	634,553.91	706,384.71	704.93	0.00
12,300.00	90.00	359.57	7,810.00	11,700.00	804.91	-6.04	634,653.91	706,383.96	804.93	0.00
12,400.00	90.00	359.57	7,810.00	11,700.00	904.90	-6.79	634,753.90	706,383.21	904.93	0.00
12,500.00	90.00	359.57	7,810.00	11,700.00	1,004.90	-7.54	634,853.90	706,382.46	1,004.93	0.00
12,600.00	90.00	359.57	7,810.00	11,700.00	1,104.90	-8.29	634,953.90	706,381.71	1,104.93	0.00
12,700.00	90.00	359.57	7,810.00	11,700.00	1,204.90	-9.04	635,053.90	706,380.96	1,204.93	0.00
12,800.00	90.00	359.57	7,810.00	11,700.00	1,304.89	-9.79	635,153.89	706,380.21	1,304.93	0.00
12,900.00	90.00	359.57	7,810.00	11,700.00	1,404.89	-10.54	635,253.89	706,379.46	1,404.93	0.00
13,000.00	90.00	359.57	7,810.00	11,700.00	1,504.89	-11.29	635,353.89	706,378.71	1,504.93	0.00
13,100.00	90.00	359.57	7,810.00	11,700.00	1,604.88	-12.04	635,453.88	706,377.96	1,604.93	0.00
13,200.00	90.00	359.57	7,810.00	11,700.00	1,704.88	-12.79	635,553.88	706,377.21	1,704.93	0.00
13,300.00	90.00	359.57	7,810.00	11,700.00	1,804.88	-13.54	635,653.88	706,376.46	1,804.93	0.00
13,400.00	90.00	359.57	7,810.00	11,700.00	1,904.88	-14.29	635,753.88	706,375.71	1,904.93	0.00



Phoenix Technology Services
Planning Report



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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)
13,500.00	90.00	359.57	7,810.00	11,700.00	2,004.87	-15.04	635,853.87	706,374.96	2,004.93	0.00
13,600.00	90.00	359.57	7,810.00	11,700.00	2,104.87	-15.79	635,953.87	706,374.21	2,104.93	0.00
13,700.00	90.00	359.57	7,810.00	11,700.00	2,204.87	-16.54	636,053.87	706,373.46	2,204.93	0.00
13,800.00	90.00	359.57	7,810.00	11,700.00	2,304.86	-17.29	636,153.86	706,372.71	2,304.93	0.00
13,900.00	90.00	359.57	7,810.00	11,700.00	2,404.86	-18.04	636,253.86	706,371.96	2,404.93	0.00
14,000.00	90.00	359.57	7,810.00	11,700.00	2,504.86	-18.79	636,353.86	706,371.21	2,504.93	0.00
14,100.00	90.00	359.57	7,810.00	11,700.00	2,604.86	-19.54	636,453.86	706,370.46	2,604.93	0.00
14,200.00	90.00	359.57	7,810.00	11,700.00	2,704.85	-20.28	636,553.85	706,369.72	2,704.93	0.00
14,300.00	90.00	359.57	7,810.00	11,700.00	2,804.85	-21.03	636,653.85	706,368.97	2,804.93	0.00
14,400.00	90.00	359.57	7,810.00	11,700.00	2,904.85	-21.78	636,753.85	706,368.22	2,904.93	0.00
14,500.00	90.00	359.57	7,810.00	11,700.00	3,004.85	-22.53	636,853.85	706,367.47	3,004.93	0.00
14,600.00	90.00	359.57	7,810.00	11,700.00	3,104.84	-23.28	636,953.84	706,366.72	3,104.93	0.00
14,700.00	90.00	359.57	7,810.00	11,700.00	3,204.84	-24.03	637,053.84	706,365.97	3,204.93	0.00
14,800.00	90.00	359.57	7,810.00	11,700.00	3,304.84	-24.78	637,153.84	706,365.22	3,304.93	0.00
14,900.00	90.00	359.57	7,810.00	11,700.00	3,404.83	-25.53	637,253.83	706,364.47	3,404.93	0.00
15,000.00	90.00	359.57	7,810.00	11,700.00	3,504.83	-26.28	637,353.83	706,363.72	3,504.93	0.00
15,100.00	90.00	359.57	7,810.00	11,700.00	3,604.83	-27.03	637,453.83	706,362.97	3,604.93	0.00
15,200.00	90.00	359.57	7,810.00	11,700.00	3,704.83	-27.78	637,553.83	706,362.22	3,704.93	0.00
15,300.00	90.00	359.57	7,810.00	11,700.00	3,804.82	-28.53	637,653.82	706,361.47	3,804.93	0.00
15,400.00	90.00	359.57	7,810.00	11,700.00	3,904.82	-29.28	637,753.82	706,360.72	3,904.93	0.00
15,500.00	90.00	359.57	7,810.00	11,700.00	4,004.82	-30.03	637,853.82	706,359.97	4,004.93	0.00
15,600.00	90.00	359.57	7,810.00	11,700.00	4,104.81	-30.78	637,953.81	706,359.22	4,104.93	0.00
15,700.00	90.00	359.57	7,810.00	11,700.00	4,204.81	-31.53	638,053.81	706,358.47	4,204.93	0.00
15,800.00	90.00	359.57	7,810.00	11,700.00	4,304.81	-32.28	638,153.81	706,357.72	4,304.93	0.00
15,900.00	90.00	359.57	7,810.00	11,700.00	4,404.81	-33.03	638,253.81	706,356.97	4,404.93	0.00
16,000.00	90.00	359.57	7,810.00	11,700.00	4,504.80	-33.78	638,353.80	706,356.22	4,504.93	0.00
16,100.00	90.00	359.57	7,810.00	11,700.00	4,604.80	-34.53	638,453.80	706,355.47	4,604.93	0.00



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16,162.20	90.00	359.57	7,810.00	11,700.00	4,667.00	-35.00	638,516.00	706,355.00	4,667.13	0.00
TD at 16162.20										

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 359.57° Azi
16,162.20	11,700.00	4,667.00	-35.00	TD at 16162.20