OCD – HOBBS
12/06/2017
RECEIVED

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-025-44265	98158	WC-025 G-09 S253236A; Upper Wolfcamp

[4]Property Code	[5]Property Name	[6]Well Number
313191	GEM 36 STATE COM	#707H

[7]OGRID No.	[8]Operator Name	[9]Elevation
7377	EOG RESOURCES, INC.	3349'

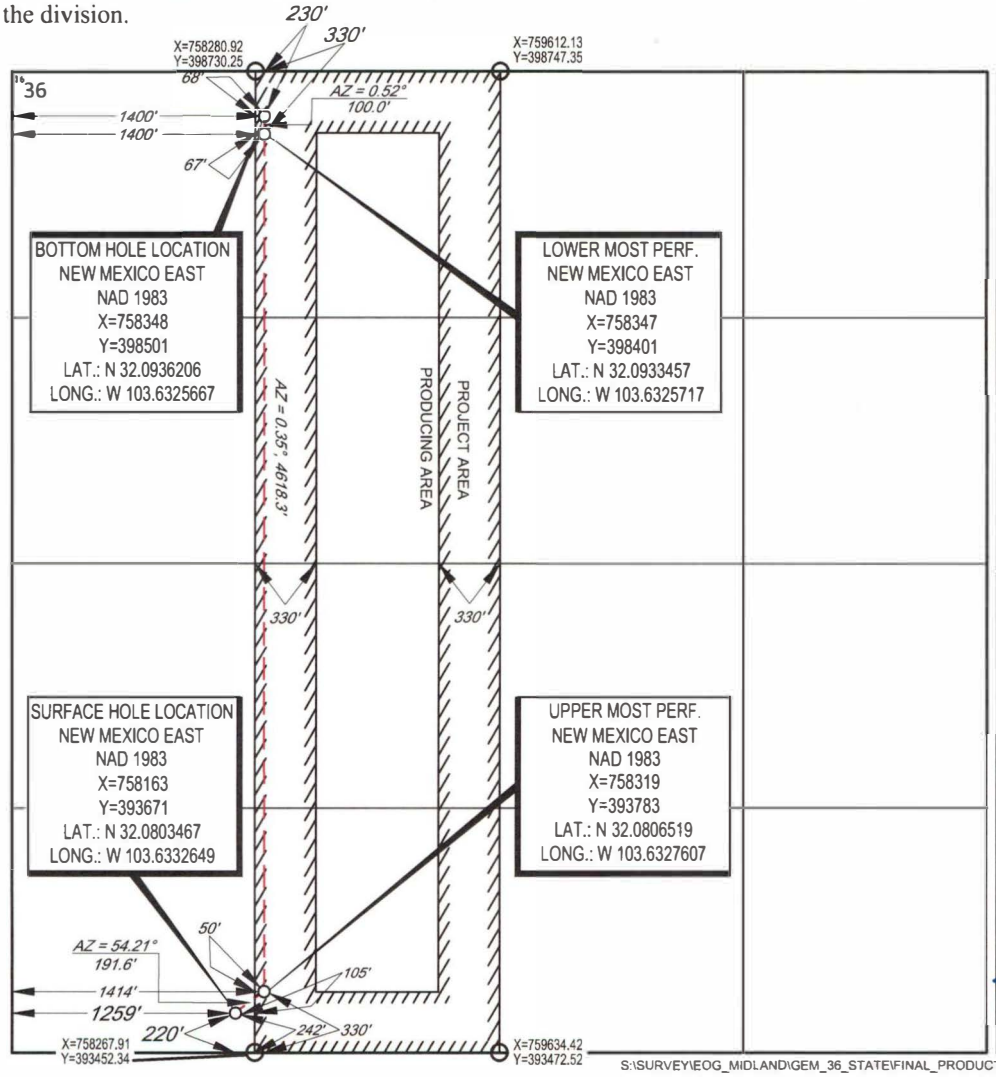
[10]Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	36	25-S	32-E	-	220'	SOUTH	1259'	WEST	LEA

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	25-S	32-E	-	230'	NORTH	1400'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
163.39			

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.



[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.

Signature — Date: 12/07/17

Stan Wagner
Printed Name

E-mail Address

[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.

11/15/2017
Date of Survey
Signature and Seal of Professional Surveyor:

MICHAEL B. BROWN
NEW MEXICO
18329
PROFESSIONAL SURVEYOR

Certificate Number

S:\SURVEY\EOG_MIDLAND\GEM_36_STATE\FINAL_PRODUCTS\LO_GEM_36_STATE_COM_707H.DWG 12/5/2017 3:53:06 PM csmith5

Permit Information:

OCD – HOBBS
12/06/2017
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Well Name: Gem 36 State Com No. 707H

Location:
SL: 220' FSL & 1259' FWL, Section 36, T-25-S, R-32-E, Lea Co., N.M.
BHL: 230' FNL & 1400' FWL, Section 36, T-25-S, R-32-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 – 810'	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' – 4,700'	9.625"	40#	HCK55	LTC	1.125	1.25	1.60
8.75"	0 – 11,200'	7.625"	29.7#	HCP110	FXL	1.125	1.25	1.60
6.75"	0'-16,035'	5.5"	17#	HCP-110	LTC	1.125	1.25	1.60

Cement Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft^3/ft	Slurry Description
810'	697	13.5	1.74	Lead: Class 'C' + 4.00% Bentonite + 2.00% CaCl2 (TOC @ Surface)
	333	14.8	1.35	Tail: Class 'C' + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate + 2.0% KCl (1.06 lb/sk)
4,700'	692	12.7	2.22	Lead: Class C + 0.15% C-20 + 11.63 pps Salt + 0.1% C-51 + 0.75% C-41P (TOC @ Surface)
	303	14.8	1.32	Tail: Class C + 0.13% C-20
11,200'	375	10.8	3.67	Lead: Class C + 0.40% D013 + 0.20% D046 + 0.10% D065 + 0.20% D167 (TOC @ 4,200')
	400	14.8	2.38	Tail: Class H + 94.0 pps D909 + 0.25% D065 + 0.30% D167 + 0.02% D208 + 0.15% D800
16,035'	950	14.8	1.31	Class H + 0.1% C-20 + 0.05% CSA-1000 + 0.20% C-49 + 0.40% C-17 (TOC @ 10,700')

Mud Program:

Depth	Type	Weight (ppg)	Viscosity	Water Loss
0 – 810'	Fresh - Gel	8.6-8.8	28-34	N/c
810' – 4,700'	Brine	10.0-10.2	28-34	N/c
4,700'– 11,200'	Oil Base	8.7-9.4	58-68	N/c - 6
11,200'– 16,035' Lateral	Oil Base	10.0-11.5	58-68	3 - 6

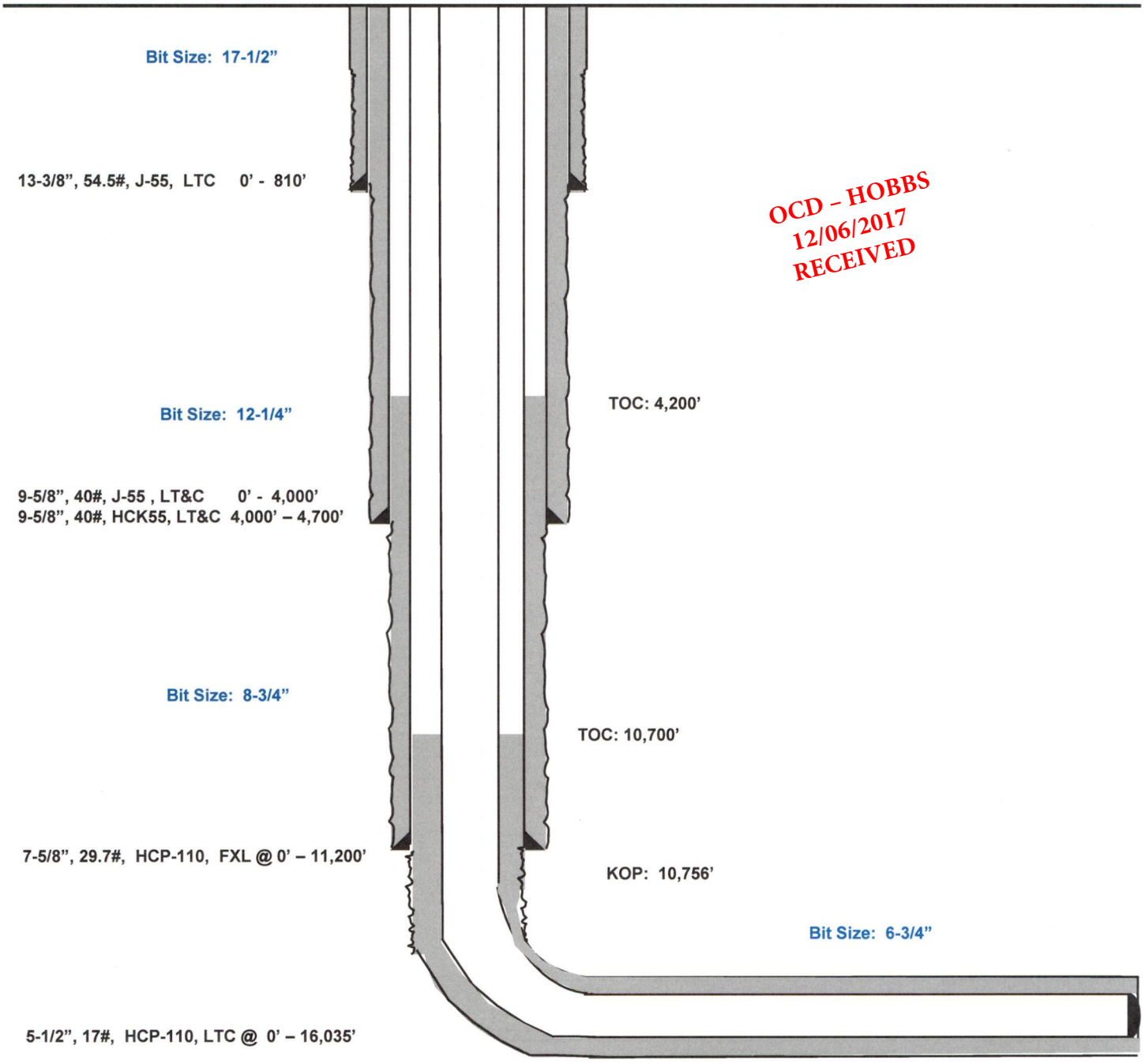
Gem 36 State Com #707H
Lea County, New Mexico

220' FSL
1259' FWL
Section 36
T-25-S, R-32-E

Proposed Wellbore

API: 30-025-*****

KB: 3,374'
GL: 3,349'



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12/06/2017
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Lateral: 16,035' MD, 11,241' TVD

BH Location: 230' FNL & 1400' FWL
Section 36
T-25-S, R-32-E

eog resources

Lea County, NM (NAD 83 NME)

Gem 36 State Com #707H

Plan #0.1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

Azimuths to Grid North
True North: -0.37°
Magnetic North: 6.55°

Magnetic Field
Strength: 47798.4snT
Dip Angle: 59.91°
Date: 12/6/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.55°
To convert a Magnetic Direction to a True Direction, Add 6.92° East
To convert a True Direction to a Grid Direction, Subtract 0.37°

WELL DETAILS: #707H

3349.0
KB = 25 @ 3374.0usft

Northing	Easting	Latitude	Longitude
[illegible]1.00	758163.00	32° 4' 49.250 N	103° 37' 59.757 W

SECTION DETAILS

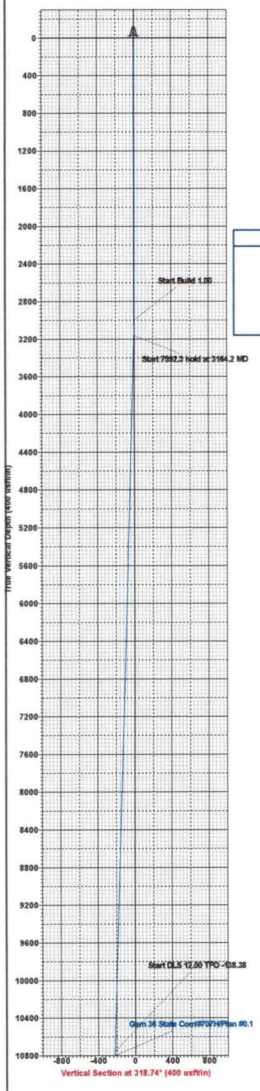
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0		
3	3164.2	1.64	138.74	3164.2	-1.8	1.6	1.00	138.74	-1.7		
4	10756.5	1.64	138.74	10753.4	-165.3	145.0	0.00	0.00	-159.6		
5	11516.8	90.00	0.35	11241.0	312.0	157.2	12.00	-138.38	317.8		
6	16034.9	90.00	0.35	11241.0	4830.0	185.0	0.00	0.00	4833.5	PBHL (Gem 36 State Com #707H)	

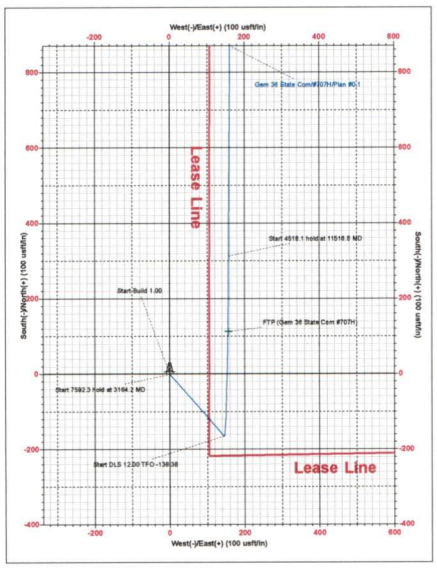
CASING DETAILS

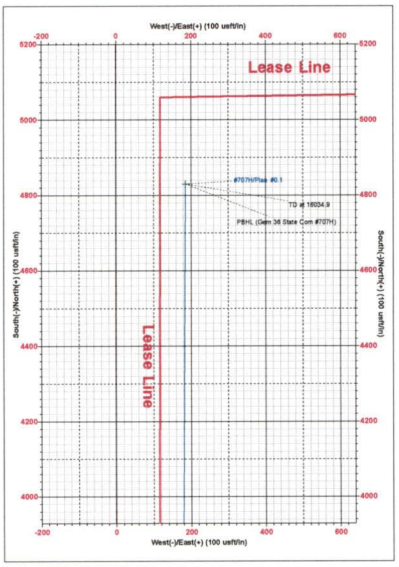
No casing data is available

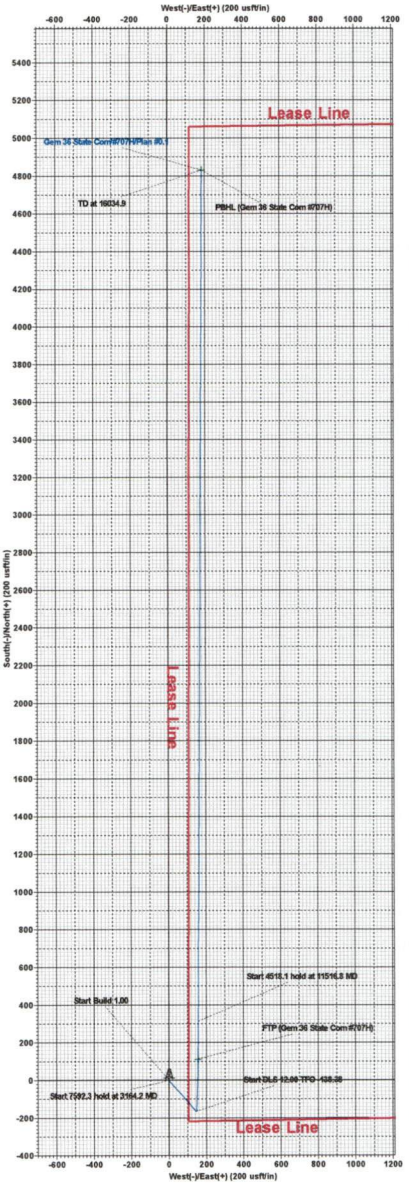
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

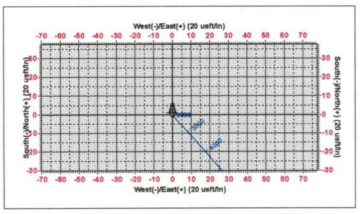
Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL (Gem 36 State Com #707H)	11241.0	4830.0	185.0	398501.00	758348.00
FTP (Gem 36 State Com #707H)	11241.0	112.0	156.0	393783.00	758319.00

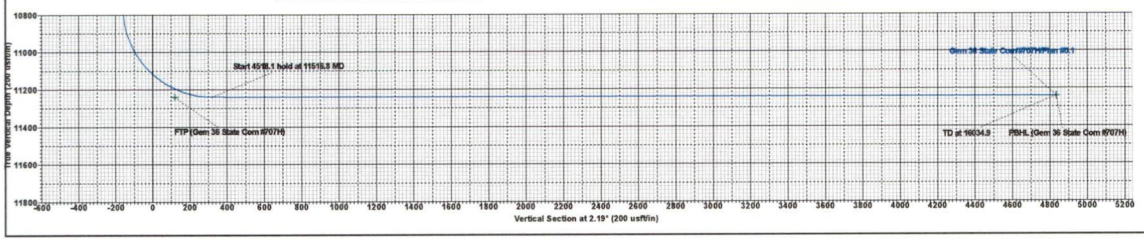


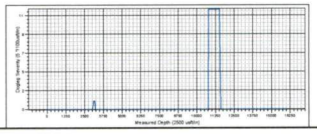












EOG Resources - Midland

Lea County, NM (NAD 83 NME)
Gem 36 State Com
#707H

OH

Plan: Plan #0.1

Standard Planning Report

06 December, 2017

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3374.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3374.0usft
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Gem 36 State Com				
Site Position:		**Northing:**	393,686.00 usft	**Latitude:**	32° 4' 49.331 N
From:	Map	**Easting:**	759,213.00 usft	**Longitude:**	103° 37' 47.552 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.37 °

Well	#707H				
Well Position	**+N/-S**	-15.0 usft	**Northing:**	393,671.00 usft	**Latitude:**	32° 4' 49.250 N
	+E/-W	-1,050.0 usft	**Easting:**	758,163.00 usft	**Longitude:**	103° 37' 59.757 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,349.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	12/6/2017	6.92	59.91	47,798.36041856

Design	Plan #0.1			
Audit Notes:				
Version:	**Phase:**	PLAN	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**
	0.0	0.0	0.0	2.19

Plan Survey Tool Program **Date** 12/6/2017

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	16,034.9	Plan #0.1 (OH)	MWD	
				MWD - Standard	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,164.2	1.64	138.74	3,164.2	-1.8	1.6	1.00	1.00	0.00	138.74	
10,756.5	1.64	138.74	10,753.4	-165.3	145.0	0.00	0.00	0.00	0.00	
11,516.8	90.00	0.35	11,241.0	312.0	157.2	12.00	11.62	-18.20	-138.38	
16,034.9	90.00	0.35	11,241.0	4,830.0	185.0	0.00	0.00	0.00	0.00	PBHL (Gem 36 State

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3374.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3374.0usft
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	1.00	138.74	3,100.0	-0.7	0.6	-0.6	1.00	1.00	0.00
3,164.2	1.64	138.74	3,164.2	-1.8	1.6	-1.7	1.00	1.00	0.00
3,200.0	1.64	138.74	3,200.0	-2.5	2.2	-2.5	0.00	0.00	0.00
3,300.0	1.64	138.74	3,299.9	-4.7	4.1	-4.5	0.00	0.00	0.00
3,400.0	1.64	138.74	3,399.9	-6.8	6.0	-6.6	0.00	0.00	0.00
3,500.0	1.64	138.74	3,499.8	-9.0	7.9	-8.7	0.00	0.00	0.00
3,600.0	1.64	138.74	3,599.8	-11.2	9.8	-10.8	0.00	0.00	0.00
3,700.0	1.64	138.74	3,699.8	-13.3	11.7	-12.9	0.00	0.00	0.00
3,800.0	1.64	138.74	3,799.7	-15.5	13.6	-14.9	0.00	0.00	0.00
3,900.0	1.64	138.74	3,899.7	-17.6	15.5	-17.0	0.00	0.00	0.00
4,000.0	1.64	138.74	3,999.6	-19.8	17.3	-19.1	0.00	0.00	0.00
4,100.0	1.64	138.74	4,099.6	-21.9	19.2	-21.2	0.00	0.00	0.00
4,200.0	1.64	138.74	4,199.6	-24.1	21.1	-23.3	0.00	0.00	0.00
4,300.0	1.64	138.74	4,299.5	-26.2	23.0	-25.3	0.00	0.00	0.00
4,400.0	1.64	138.74	4,399.5	-28.4	24.9	-27.4	0.00	0.00	0.00
4,500.0	1.64	138.74	4,499.4	-30.5	26.8	-29.5	0.00	0.00	0.00
4,600.0	1.64	138.74	4,599.4	-32.7	28.7	-31.6	0.00	0.00	0.00
4,700.0	1.64	138.74	4,699.3	-34.8	30.6	-33.7	0.00	0.00	0.00
4,800.0	1.64	138.74	4,799.3	-37.0	32.5	-35.7	0.00	0.00	0.00
4,900.0	1.64	138.74	4,899.3	-39.2	34.4	-37.8	0.00	0.00	0.00
5,000.0	1.64	138.74	4,999.2	-41.3	36.2	-39.9	0.00	0.00	0.00
5,100.0	1.64	138.74	5,099.2	-43.5	38.1	-42.0	0.00	0.00	0.00
5,200.0	1.64	138.74	5,199.1	-45.6	40.0	-44.1	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3374.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3374.0usft
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	1.64	138.74	5,299.1	-47.8	41.9	-46.1	0.00	0.00	0.00
5,400.0	1.64	138.74	5,399.1	-49.9	43.8	-48.2	0.00	0.00	0.00
5,500.0	1.64	138.74	5,499.0	-52.1	45.7	-50.3	0.00	0.00	0.00
5,600.0	1.64	138.74	5,599.0	-54.2	47.6	-52.4	0.00	0.00	0.00
5,700.0	1.64	138.74	5,698.9	-56.4	49.5	-54.5	0.00	0.00	0.00
5,800.0	1.64	138.74	5,798.9	-58.5	51.4	-56.5	0.00	0.00	0.00
5,900.0	1.64	138.74	5,898.9	-60.7	53.2	-58.6	0.00	0.00	0.00
6,000.0	1.64	138.74	5,998.8	-62.9	55.1	-60.7	0.00	0.00	0.00
6,100.0	1.64	138.74	6,098.8	-65.0	57.0	-62.8	0.00	0.00	0.00
6,200.0	1.64	138.74	6,198.7	-67.2	58.9	-64.9	0.00	0.00	0.00
6,300.0	1.64	138.74	6,298.7	-69.3	60.8	-66.9	0.00	0.00	0.00
6,400.0	1.64	138.74	6,398.6	-71.5	62.7	-69.0	0.00	0.00	0.00
6,500.0	1.64	138.74	6,498.6	-73.6	64.6	-71.1	0.00	0.00	0.00
6,600.0	1.64	138.74	6,598.6	-75.8	66.5	-73.2	0.00	0.00	0.00
6,700.0	1.64	138.74	6,698.5	-77.9	68.4	-75.3	0.00	0.00	0.00
6,800.0	1.64	138.74	6,798.5	-80.1	70.3	-77.3	0.00	0.00	0.00
6,900.0	1.64	138.74	6,898.4	-82.2	72.1	-79.4	0.00	0.00	0.00
7,000.0	1.64	138.74	6,998.4	-84.4	74.0	-81.5	0.00	0.00	0.00
7,100.0	1.64	138.74	7,098.4	-86.5	75.9	-83.6	0.00	0.00	0.00
7,200.0	1.64	138.74	7,198.3	-88.7	77.8	-85.7	0.00	0.00	0.00
7,300.0	1.64	138.74	7,298.3	-90.9	79.7	-87.7	0.00	0.00	0.00
7,400.0	1.64	138.74	7,398.2	-93.0	81.6	-89.8	0.00	0.00	0.00
7,500.0	1.64	138.74	7,498.2	-95.2	83.5	-91.9	0.00	0.00	0.00
7,600.0	1.64	138.74	7,598.2	-97.3	85.4	-94.0	0.00	0.00	0.00
7,700.0	1.64	138.74	7,698.1	-99.5	87.3	-96.1	0.00	0.00	0.00
7,800.0	1.64	138.74	7,798.1	-101.6	89.1	-98.1	0.00	0.00	0.00
7,900.0	1.64	138.74	7,898.0	-103.8	91.0	-100.2	0.00	0.00	0.00
8,000.0	1.64	138.74	7,998.0	-105.9	92.9	-102.3	0.00	0.00	0.00
8,100.0	1.64	138.74	8,098.0	-108.1	94.8	-104.4	0.00	0.00	0.00
8,200.0	1.64	138.74	8,197.9	-110.2	96.7	-106.5	0.00	0.00	0.00
8,300.0	1.64	138.74	8,297.9	-112.4	98.6	-108.5	0.00	0.00	0.00
8,400.0	1.64	138.74	8,397.8	-114.5	100.5	-110.6	0.00	0.00	0.00
8,500.0	1.64	138.74	8,497.8	-116.7	102.4	-112.7	0.00	0.00	0.00
8,600.0	1.64	138.74	8,597.7	-118.9	104.3	-114.8	0.00	0.00	0.00
8,700.0	1.64	138.74	8,697.7	-121.0	106.2	-116.9	0.00	0.00	0.00
8,800.0	1.64	138.74	8,797.7	-123.2	108.0	-118.9	0.00	0.00	0.00
8,900.0	1.64	138.74	8,897.6	-125.3	109.9	-121.0	0.00	0.00	0.00
9,000.0	1.64	138.74	8,997.6	-127.5	111.8	-123.1	0.00	0.00	0.00
9,100.0	1.64	138.74	9,097.5	-129.6	113.7	-125.2	0.00	0.00	0.00
9,200.0	1.64	138.74	9,197.5	-131.8	115.6	-127.3	0.00	0.00	0.00
9,300.0	1.64	138.74	9,297.5	-133.9	117.5	-129.3	0.00	0.00	0.00
9,400.0	1.64	138.74	9,397.4	-136.1	119.4	-131.4	0.00	0.00	0.00
9,500.0	1.64	138.74	9,497.4	-138.2	121.3	-133.5	0.00	0.00	0.00
9,600.0	1.64	138.74	9,597.3	-140.4	123.2	-135.6	0.00	0.00	0.00
9,700.0	1.64	138.74	9,697.3	-142.5	125.0	-137.7	0.00	0.00	0.00
9,800.0	1.64	138.74	9,797.3	-144.7	126.9	-139.7	0.00	0.00	0.00
9,900.0	1.64	138.74	9,897.2	-146.9	128.8	-141.8	0.00	0.00	0.00
10,000.0	1.64	138.74	9,997.2	-149.0	130.7	-143.9	0.00	0.00	0.00
10,100.0	1.64	138.74	10,097.1	-151.2	132.6	-146.0	0.00	0.00	0.00
10,200.0	1.64	138.74	10,197.1	-153.3	134.5	-148.1	0.00	0.00	0.00
10,300.0	1.64	138.74	10,297.0	-155.5	136.4	-150.1	0.00	0.00	0.00
10,400.0	1.64	138.74	10,397.0	-157.6	138.3	-152.2	0.00	0.00	0.00
10,500.0	1.64	138.74	10,497.0	-159.8	140.2	-154.3	0.00	0.00	0.00
10,600.0	1.64	138.74	10,596.9	-161.9	142.1	-156.4	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3374.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3374.0usft
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	1.64	138.74	10,696.9	-164.1	143.9	-158.5	0.00	0.00	0.00
10,756.5	1.64	138.74	10,753.4	-165.3	145.0	-159.6	0.00	0.00	0.00
10,775.0	1.47	48.16	10,771.9	-165.3	145.4	-159.7	12.00	-0.92	-490.53
10,800.0	4.13	15.62	10,796.8	-164.3	145.8	-158.6	12.00	10.65	-130.17
10,825.0	7.07	9.18	10,821.7	-161.9	146.3	-156.2	12.00	11.75	-25.77
10,850.0	10.05	6.52	10,846.4	-158.2	146.8	-152.5	12.00	11.90	-10.63
10,875.0	13.03	5.07	10,870.9	-153.2	147.3	-147.5	12.00	11.94	-5.80
10,900.0	16.02	4.15	10,895.1	-147.0	147.8	-141.2	12.00	11.97	-3.67
10,925.0	19.02	3.52	10,918.9	-139.5	148.3	-133.7	12.00	11.98	-2.54
10,950.0	22.01	3.05	10,942.4	-130.7	148.8	-124.9	12.00	11.98	-1.87
10,975.0	25.01	2.69	10,965.3	-120.7	149.3	-114.9	12.00	11.99	-1.44
11,000.0	28.01	2.40	10,987.7	-109.6	149.8	-103.8	12.00	11.99	-1.15
11,025.0	31.01	2.17	11,009.4	-97.3	150.3	-91.5	12.00	11.99	-0.94
11,050.0	34.00	1.97	11,030.5	-83.9	150.8	-78.0	12.00	11.99	-0.79
11,075.0	37.00	1.80	11,050.8	-69.4	151.3	-63.5	12.00	11.99	-0.68
11,100.0	40.00	1.65	11,070.4	-53.8	151.7	-48.0	12.00	11.99	-0.59
11,125.0	43.00	1.52	11,089.1	-37.3	152.2	-31.4	12.00	12.00	-0.52
11,150.0	46.00	1.41	11,107.0	-19.7	152.6	-13.9	12.00	12.00	-0.47
11,175.0	49.00	1.30	11,123.8	-1.3	153.1	4.5	12.00	12.00	-0.42
11,200.0	52.00	1.20	11,139.7	18.0	153.5	23.8	12.00	12.00	-0.38
11,225.0	55.00	1.12	11,154.6	38.1	153.9	43.9	12.00	12.00	-0.35
11,250.0	57.99	1.03	11,168.4	58.9	154.3	64.8	12.00	12.00	-0.33
11,275.0	60.99	0.96	11,181.1	80.4	154.7	86.3	12.00	12.00	-0.31
11,300.0	63.99	0.88	11,192.6	102.6	155.0	108.5	12.00	12.00	-0.29
11,325.0	66.99	0.82	11,203.0	125.3	155.4	131.2	12.00	12.00	-0.28
11,350.0	69.99	0.75	11,212.2	148.6	155.7	154.4	12.00	12.00	-0.26
11,375.0	72.99	0.69	11,220.1	172.3	156.0	178.1	12.00	12.00	-0.25
11,400.0	75.99	0.62	11,226.8	196.4	156.2	202.2	12.00	12.00	-0.25
11,425.0	78.99	0.56	11,232.2	220.8	156.5	226.6	12.00	12.00	-0.24
11,450.0	81.99	0.51	11,236.3	245.4	156.7	251.3	12.00	12.00	-0.23
11,475.0	84.99	0.45	11,239.2	270.3	156.9	276.1	12.00	12.00	-0.23
11,500.0	87.99	0.39	11,240.7	295.2	157.1	301.0	12.00	12.00	-0.23
11,516.8	90.00	0.35	11,241.0	312.0	157.2	317.8	12.00	12.00	-0.23
11,600.0	90.00	0.35	11,241.0	395.2	157.7	401.0	0.00	0.00	0.00
11,700.0	90.00	0.35	11,241.0	495.2	158.4	500.9	0.00	0.00	0.00
11,800.0	90.00	0.35	11,241.0	595.2	159.0	600.9	0.00	0.00	0.00
11,900.0	90.00	0.35	11,241.0	695.2	159.6	700.8	0.00	0.00	0.00
12,000.0	90.00	0.35	11,241.0	795.2	160.2	800.8	0.00	0.00	0.00
12,100.0	90.00	0.35	11,241.0	895.2	160.8	900.7	0.00	0.00	0.00
12,200.0	90.00	0.35	11,241.0	995.2	161.4	1,000.7	0.00	0.00	0.00
12,300.0	90.00	0.35	11,241.0	1,095.2	162.0	1,100.6	0.00	0.00	0.00
12,400.0	90.00	0.35	11,241.0	1,195.2	162.7	1,200.6	0.00	0.00	0.00
12,500.0	90.00	0.35	11,241.0	1,295.2	163.3	1,300.5	0.00	0.00	0.00
12,600.0	90.00	0.35	11,241.0	1,395.2	163.9	1,400.5	0.00	0.00	0.00
12,700.0	90.00	0.35	11,241.0	1,495.2	164.5	1,500.4	0.00	0.00	0.00
12,800.0	90.00	0.35	11,241.0	1,595.2	165.1	1,600.3	0.00	0.00	0.00
12,900.0	90.00	0.35	11,241.0	1,695.2	165.7	1,700.3	0.00	0.00	0.00
13,000.0	90.00	0.35	11,241.0	1,795.2	166.3	1,800.2	0.00	0.00	0.00
13,100.0	90.00	0.35	11,241.0	1,895.2	167.0	1,900.2	0.00	0.00	0.00
13,200.0	90.00	0.35	11,241.0	1,995.2	167.6	2,000.1	0.00	0.00	0.00
13,300.0	90.00	0.35	11,241.0	2,095.2	168.2	2,100.1	0.00	0.00	0.00
13,400.0	90.00	0.35	11,241.0	2,195.2	168.8	2,200.0	0.00	0.00	0.00
13,500.0	90.00	0.35	11,241.0	2,295.2	169.4	2,300.0	0.00	0.00	0.00
13,600.0	90.00	0.35	11,241.0	2,395.2	170.0	2,399.9	0.00	0.00	0.00

Database:	EDM 5000.14	**Local Co-ordinate Reference:**	Well #707H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3374.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB = 25 @ 3374.0usft
Site:	Gem 36 State Com	**North Reference:**	Grid
Well:	#707H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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)
13,700.0	90.00	0.35	11,241.0	2,495.2	170.6	2,499.9	0.00	0.00	0.00
13,800.0	90.00	0.35	11,241.0	2,595.2	171.3	2,599.8	0.00	0.00	0.00
13,900.0	90.00	0.35	11,241.0	2,695.2	171.9	2,699.8	0.00	0.00	0.00
14,000.0	90.00	0.35	11,241.0	2,795.2	172.5	2,799.7	0.00	0.00	0.00
14,100.0	90.00	0.35	11,241.0	2,895.2	173.1	2,899.7	0.00	0.00	0.00
14,200.0	90.00	0.35	11,241.0	2,995.2	173.7	2,999.6	0.00	0.00	0.00
14,300.0	90.00	0.35	11,241.0	3,095.2	174.3	3,099.6	0.00	0.00	0.00
14,400.0	90.00	0.35	11,241.0	3,195.2	175.0	3,199.5	0.00	0.00	0.00
14,500.0	90.00	0.35	11,241.0	3,295.2	175.6	3,299.5	0.00	0.00	0.00
14,600.0	90.00	0.35	11,241.0	3,395.2	176.2	3,399.4	0.00	0.00	0.00
14,700.0	90.00	0.35	11,241.0	3,495.2	176.8	3,499.4	0.00	0.00	0.00
14,800.0	90.00	0.35	11,241.0	3,595.2	177.4	3,599.3	0.00	0.00	0.00
14,900.0	90.00	0.35	11,241.0	3,695.2	178.0	3,699.3	0.00	0.00	0.00
15,000.0	90.00	0.35	11,241.0	3,795.2	178.6	3,799.2	0.00	0.00	0.00
15,100.0	90.00	0.35	11,241.0	3,895.2	179.3	3,899.2	0.00	0.00	0.00
15,200.0	90.00	0.35	11,241.0	3,995.2	179.9	3,999.1	0.00	0.00	0.00
15,300.0	90.00	0.35	11,241.0	4,095.1	180.5	4,099.1	0.00	0.00	0.00
15,400.0	90.00	0.35	11,241.0	4,195.1	181.1	4,199.0	0.00	0.00	0.00
15,500.0	90.00	0.35	11,241.0	4,295.1	181.7	4,299.0	0.00	0.00	0.00
15,600.0	90.00	0.35	11,241.0	4,395.1	182.3	4,398.9	0.00	0.00	0.00
15,700.0	90.00	0.35	11,241.0	4,495.1	182.9	4,498.9	0.00	0.00	0.00
15,800.0	90.00	0.35	11,241.0	4,595.1	183.6	4,598.8	0.00	0.00	0.00
15,900.0	90.00	0.35	11,241.0	4,695.1	184.2	4,698.7	0.00	0.00	0.00
16,000.0	90.00	0.35	11,241.0	4,795.1	184.8	4,798.7	0.00	0.00	0.00
16,034.9	90.00	0.35	11,241.0	4,830.0	185.0	4,833.5	0.00	0.00	0.00

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
PBHL (Gem 36 State Co - plan hits target center - Point	0.00	0.00	11,241.0	4,830.0	185.0	398,501.00	758,348.00	32° 5' 37.033 N	103° 37' 57.242 W
FTP (Gem 36 State Com - plan misses target center by 40.2usft at 11326.5usft MD (11203.6 TVD, 126.7 N, 155.4 E) - Point	0.00	0.00	11,241.0	112.0	156.0	393,783.00	758,319.00	32° 4' 50.348 N	103° 37' 57.935 W

EOG RESOURCES, INC.
GEM 36 STATE COM #707H

OCD – HOBBS
12/06/2017
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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/Escape 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.
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- 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.
GEM 36 STATE COM #707H

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

Company Drilling Consultants:	
David Dominque	Cell (985) 518-5839
Mike Vann	Cell (817) 980-5507

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

Drilling Manager	
Floyd Hernandez	Office (432) 686-3716
	Cell (817) 682-4569

Drilling Superintendent	
Jason Fitzgerald	Office (432) 848-9029
	Cell (318) 347-3916

H&P Drilling	
H&P Drilling	Office (432) 563-5757
H&P 651 Drilling Rig	Rig (903) 509-7131

Tool Pusher:	
Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety	
Brian Chandler (HSE Manager)	Office (432) 686-3695
	Cell (817) 239-0251