

Permit Information:

Well Name: Horse 29 State No. 701H

MAY 14 2015

Location:

RECEIVED

SL: 440' FNL & 1160' FWL, Section 29, T-25-S, R-34-E, Lea Co., N.M.

BHL: 50' FSL & 330' FWL, Section 29, T-25-S, R-34-E, Lea Co., N.M.

30-025-42565

Casing Program:

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF _{min} Collapse	DF _{min} Burst	DF _{min} Tension
17.5"	0 - 940'	13.375"	54.5#	J55	STC	1.125	1.25	1.60
12.25"	0-4000'	9.625"	40#	J55	LTC	1.125	1.25	1.60
12.25"	4000' - 5100'	9.625"	40#	HCK-55	LTC	1.125	1.25	1.60
8.75"	0'-17,558'	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
940'	400	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)
	200	14.8	1.34	Class C + 0.6% FL-62 + 0.25 lb/sk Cello-Flake + 0.2% Sodium Metasilicate
5,100'	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)
	200	14.8	1.32	Tail: Class 'C' + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
17,558'	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 (TOC @ 4600')
	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
	1400	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 - 940'	Fresh - Gel	8.6-8.8	28-34	N/c
940' - 5,100'	Oil Base	8.7-9.4	58-68	N/c - 6
5,100' - 12,022'	Oil Base	8.7-9.4	58-68	N/c - 6
12,022' - 17,558' Lateral	Oil Base	9.0-9.5	58-68	N/c - 6

MAY 18 2015

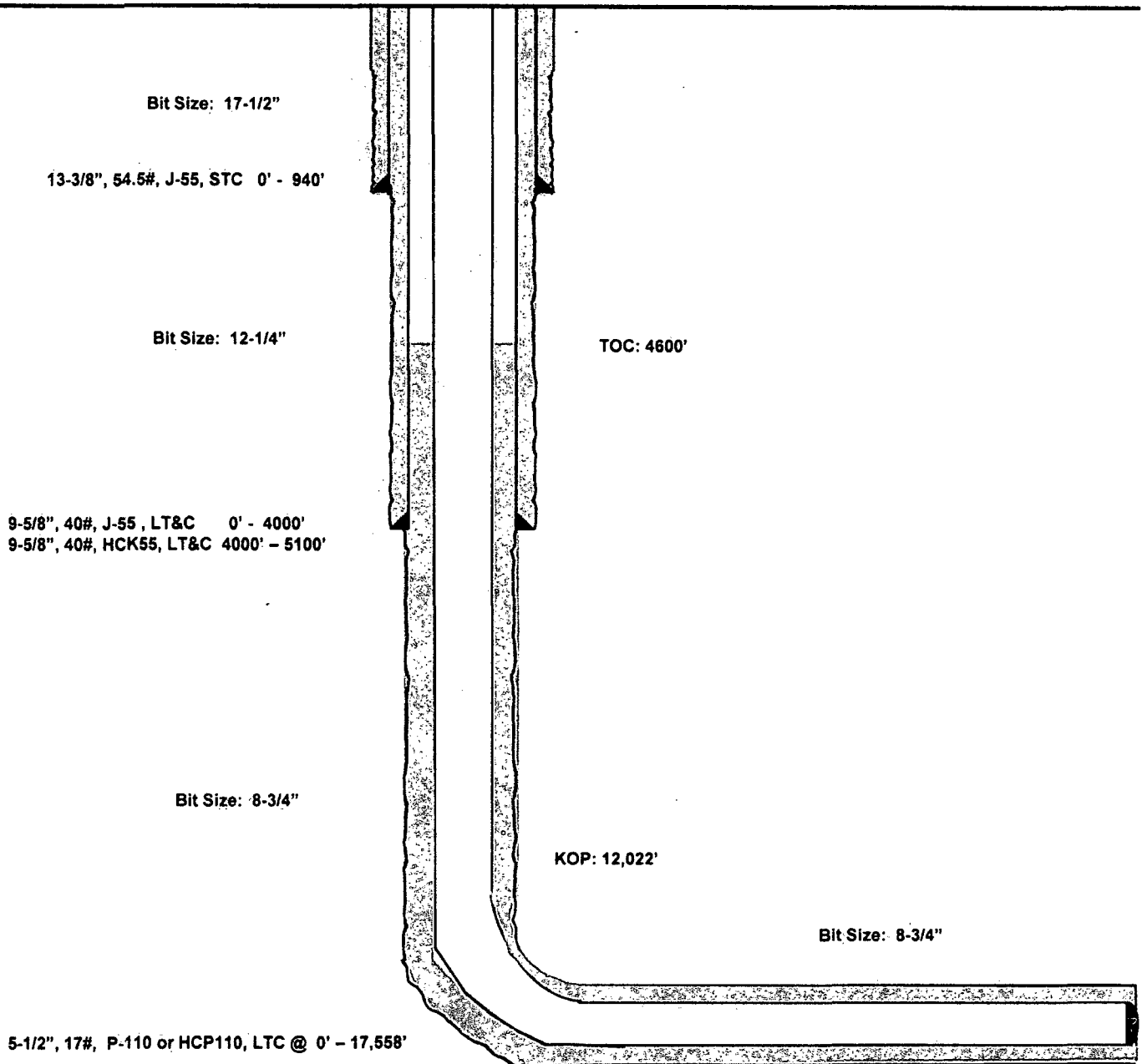
Horse 29 State #701H
Lea County, New Mexico

440' FNL
1160' FWL
Section 29
T-25-S, R-34-E

Proposed Wellbore

API: 30-025-

KB: 3,345'
GL: 3,320'



Lateral: 17,558' MD, 12,612' TVD

BH Location: 50' FSL & 330' FWL
Section 29
T-25-S, R-34-E



Lea County, NM (NAD 27 NME)

Horse 29 State #701H

H&P 651

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1987 (Exact solution)
Datum: NAD 1987 (NADCON CONUS)
Elevation: Clarke 1866
Zone: New Mexico East 2001
System Datum: Mean Sea Level

WELL DETAILS: #701H

Ground Level: 3320.0
KB = 23 @ 3343.0m (H&P 661)
Northing: 453805.50 Easting: 769165.50
Latitude: 32° 0' 29.578 N Longitude: 103° 29' 34.587 W

Azimuths to Grid North
True North: -0.44°
Magnetic North: 5.67°
Magnetic Field
Strength: 48071.0mT
Dip Angle: 69.00°
Date: 7/30/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 5.67°
To convert a Magnetic Direction to a True Direction, Add 7.11° East
To convert a True Direction to a Grid Direction, Subtract 0.44°

SECTION DETAILS

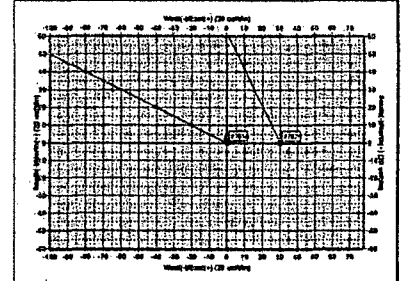
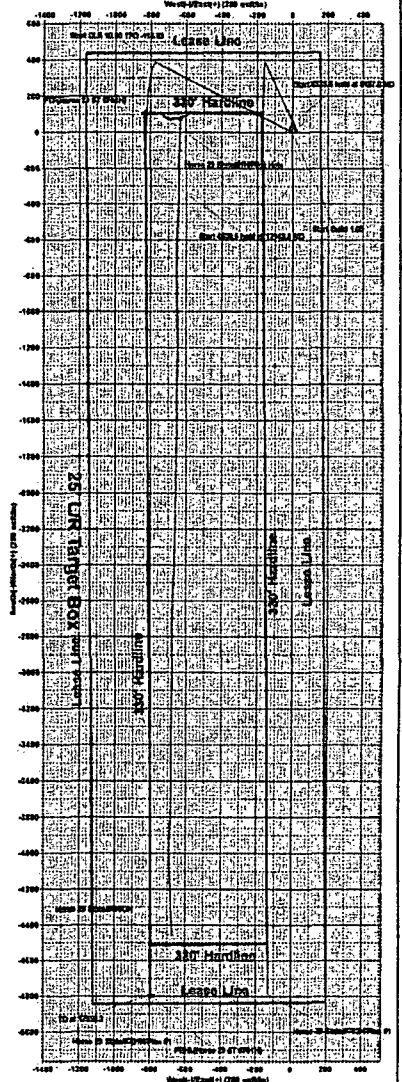
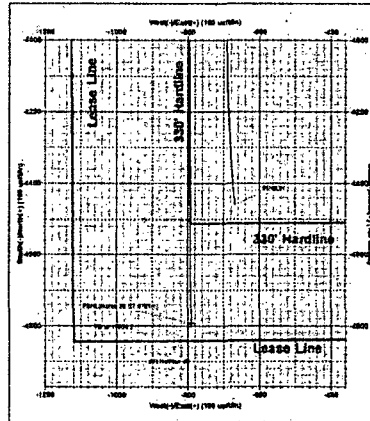
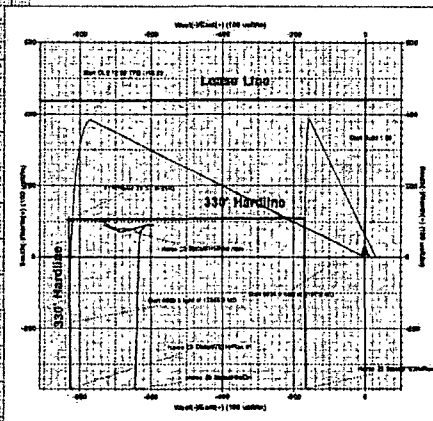
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	5187.0	8.87	296.54	5185.4	18.4	-36.8	1.00	296.54	-12.1	
4	12022.6	8.87	296.54	11971.9	383.8	-768.3	0.00	0.00	-253.6	
5	12948.8	89.50	179.54	12572.5	-183.8	-827.7	10.00	-116.89	316.2	
6	17558.2	89.50	179.54	12612.8	-4793.0	-791.0	0.00	0.00	4857.8	PBHL(Horse 29 ST #701H)

CASINO DETAILS

No casing data is available

WELLDRE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting
PTN(Horse 29 ST #701H)	12670.0	108.0	-655.0	453811.00	769356.50
PBHL(Horse 29 ST #701H)	12612.8	-4793.0	-791.0	453805.50	769356.50



Vertical Section at 109.27° (200 m/ft)



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Horse 29 State

#701H

OH

Plan: Plan #1

Standard Planning Report

14 May, 2015



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Site:	Horse 29 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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	Horse 29 State		
Site Position:		Northing:	403,912.30 usft
From:	Map	Easting:	758,454.50 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 6' 27.793 N
		Longitude:	103° 29' 55.070 W
		Grid Convergence:	0.44 "

Well	#701H		
Well Position	+N/-S	-107.3 usft	Northing: 403,805.00 usft
	+E/-W	730.5 usft	Easting: 759,185.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 6' 26.675 N
		Longitude:	103° 29' 46.587 W
		Ground Level:	3,320.0 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF2015	7/30/2015	7.11
			Dip Angle
			59.99
			Field Strength
			48,071

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			189.37

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	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
5,187.0	6.87	296.54	5,185.4	18.4	-36.8	1.00	1.00	0.00	296.54	
12,022.6	6.87	296.54	11,971.9	383.8	-768.3	0.00	0.00	0.00	0.00	
12,948.8	89.50	179.54	12,572.5	-183.8	-827.7	10.00	8.92	-12.63	-116.89	
17,558.2	89.50	179.54	12,612.8	-4,793.0	-791.0	0.00	0.00	0.00	0.00	PBHL(Horse 29 ST #;



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Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Site:	Horse 29 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	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	296.54	4,600.0	0.4	-0.8	-0.3	1.00	1.00	0.00
4,700.0	2.00	296.54	4,700.0	1.6	-3.1	-1.0	1.00	1.00	0.00
4,800.0	3.00	296.54	4,799.9	3.5	-7.0	-2.3	1.00	1.00	0.00
4,900.0	4.00	296.54	4,899.7	6.2	-12.5	-4.1	1.00	1.00	0.00
5,000.0	5.00	296.54	4,999.4	9.7	-19.5	-6.4	1.00	1.00	0.00
5,100.0	6.00	296.54	5,098.9	14.0	-28.1	-9.3	1.00	1.00	0.00
5,187.0	6.87	296.54	5,185.4	18.4	-38.8	-12.1	1.00	1.00	0.00
5,200.0	6.87	296.54	5,198.3	19.1	-38.2	-12.6	0.00	0.00	0.00



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Wellbore:	OH		
Design:	Plan #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	6.87	296.54	5,297.5	24.4	-48.9	-16.1	0.00	0.00	0.00
5,400.0	6.87	296.54	5,396.8	29.8	-59.6	-19.7	0.00	0.00	0.00
5,500.0	6.87	296.54	5,496.1	35.1	-70.3	-23.2	0.00	0.00	0.00
5,600.0	6.87	296.54	5,595.4	40.5	-81.0	-26.7	0.00	0.00	0.00
5,700.0	6.87	296.54	5,694.7	45.8	-91.7	-30.3	0.00	0.00	0.00
5,800.0	6.87	296.54	5,794.0	51.2	-102.4	-33.8	0.00	0.00	0.00
5,900.0	6.87	296.54	5,893.2	56.5	-113.1	-37.3	0.00	0.00	0.00
6,000.0	6.87	296.54	5,992.5	61.8	-123.8	-40.9	0.00	0.00	0.00
6,100.0	6.87	296.54	6,091.8	67.2	-134.5	-44.4	0.00	0.00	0.00
6,200.0	6.87	296.54	6,191.1	72.5	-145.2	-47.9	0.00	0.00	0.00
6,300.0	6.87	296.54	6,290.4	77.9	-155.9	-51.5	0.00	0.00	0.00
6,400.0	6.87	296.54	6,389.6	83.2	-166.6	-55.0	0.00	0.00	0.00
6,500.0	6.87	296.54	6,488.9	88.6	-177.3	-58.5	0.00	0.00	0.00
6,600.0	6.87	296.54	6,588.2	93.9	-188.0	-62.1	0.00	0.00	0.00
6,700.0	6.87	296.54	6,687.5	99.3	-198.7	-65.6	0.00	0.00	0.00
6,800.0	6.87	296.54	6,786.8	104.6	-209.4	-69.1	0.00	0.00	0.00
6,900.0	6.87	296.54	6,886.1	110.0	-220.1	-72.6	0.00	0.00	0.00
7,000.0	6.87	296.54	6,985.3	115.3	-230.8	-76.2	0.00	0.00	0.00
7,100.0	6.87	296.54	7,084.6	120.6	-241.5	-79.7	0.00	0.00	0.00
7,200.0	6.87	296.54	7,183.9	126.0	-252.2	-83.2	0.00	0.00	0.00
7,300.0	6.87	296.54	7,283.2	131.3	-262.9	-86.8	0.00	0.00	0.00
7,400.0	6.87	296.54	7,382.5	136.7	-273.6	-90.3	0.00	0.00	0.00
7,500.0	6.87	296.54	7,481.7	142.0	-284.3	-93.8	0.00	0.00	0.00
7,600.0	6.87	296.54	7,581.0	147.4	-295.0	-97.4	0.00	0.00	0.00
7,700.0	6.87	296.54	7,680.3	152.7	-305.7	-100.9	0.00	0.00	0.00
7,800.0	6.87	296.54	7,779.6	158.1	-316.4	-104.4	0.00	0.00	0.00
7,900.0	6.87	296.54	7,878.9	163.4	-327.1	-108.0	0.00	0.00	0.00
8,000.0	6.87	296.54	7,978.2	168.8	-337.8	-111.5	0.00	0.00	0.00
8,100.0	6.87	296.54	8,077.4	174.1	-348.5	-115.0	0.00	0.00	0.00
8,200.0	6.87	296.54	8,176.7	179.4	-359.2	-118.6	0.00	0.00	0.00
8,300.0	6.87	296.54	8,276.0	184.8	-369.9	-122.1	0.00	0.00	0.00
8,400.0	6.87	296.54	8,375.3	190.1	-380.6	-125.6	0.00	0.00	0.00
8,500.0	6.87	296.54	8,474.6	195.5	-391.3	-129.2	0.00	0.00	0.00
8,600.0	6.87	296.54	8,573.8	200.8	-402.0	-132.7	0.00	0.00	0.00
8,700.0	6.87	296.54	8,673.1	206.2	-412.7	-136.2	0.00	0.00	0.00
8,800.0	6.87	296.54	8,772.4	211.5	-423.4	-139.8	0.00	0.00	0.00
8,900.0	6.87	296.54	8,871.7	216.9	-434.1	-143.3	0.00	0.00	0.00
9,000.0	6.87	296.54	8,971.0	222.2	-444.8	-146.8	0.00	0.00	0.00
9,100.0	6.87	296.54	9,070.3	227.6	-455.5	-150.3	0.00	0.00	0.00
9,200.0	6.87	296.54	9,169.5	232.9	-466.2	-153.9	0.00	0.00	0.00
9,300.0	6.87	296.54	9,268.8	238.3	-476.9	-157.4	0.00	0.00	0.00
9,400.0	6.87	296.54	9,368.1	243.6	-487.6	-160.9	0.00	0.00	0.00
9,500.0	6.87	296.54	9,467.4	248.9	-498.3	-164.5	0.00	0.00	0.00
9,600.0	6.87	296.54	9,566.7	254.3	-509.0	-168.0	0.00	0.00	0.00
9,700.0	6.87	296.54	9,666.0	259.6	-519.7	-171.5	0.00	0.00	0.00
9,800.0	6.87	296.54	9,765.2	265.0	-530.4	-175.1	0.00	0.00	0.00
9,900.0	6.87	296.54	9,864.5	270.3	-541.1	-178.6	0.00	0.00	0.00
10,000.0	6.87	296.54	9,963.8	275.7	-551.8	-182.1	0.00	0.00	0.00
10,100.0	6.87	296.54	10,063.1	281.0	-562.5	-185.7	0.00	0.00	0.00
10,200.0	6.87	296.54	10,162.4	286.4	-573.2	-189.2	0.00	0.00	0.00
10,300.0	6.87	296.54	10,261.6	291.7	-584.0	-192.7	0.00	0.00	0.00
10,400.0	6.87	296.54	10,360.9	297.1	-594.7	-196.3	0.00	0.00	0.00
10,500.0	6.87	296.54	10,460.2	302.4	-605.4	-199.8	0.00	0.00	0.00
10,600.0	6.87	296.54	10,559.5	307.7	-616.1	-203.3	0.00	0.00	0.00



EOG Resources, Inc.
Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Site:	Horse 29 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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	6.87	296.54	10,658.8	313.1	-626.8	-206.9	0.00	0.00	0.00
10,800.0	6.87	296.54	10,758.1	318.4	-637.5	-210.4	0.00	0.00	0.00
10,900.0	6.87	296.54	10,857.3	323.8	-648.2	-213.9	0.00	0.00	0.00
11,000.0	6.87	296.54	10,956.6	329.1	-658.9	-217.5	0.00	0.00	0.00
11,100.0	6.87	296.54	11,055.9	334.5	-669.6	-221.0	0.00	0.00	0.00
11,200.0	6.87	296.54	11,155.2	339.8	-680.3	-224.5	0.00	0.00	0.00
11,300.0	6.87	296.54	11,254.5	345.2	-691.0	-228.0	0.00	0.00	0.00
11,400.0	6.87	296.54	11,353.7	350.5	-701.7	-231.6	0.00	0.00	0.00
11,500.0	6.87	296.54	11,453.0	355.9	-712.4	-235.1	0.00	0.00	0.00
11,600.0	6.87	296.54	11,552.3	361.2	-723.1	-238.6	0.00	0.00	0.00
11,700.0	6.87	296.54	11,651.6	366.5	-733.8	-242.2	0.00	0.00	0.00
11,800.0	6.87	296.54	11,750.9	371.9	-744.5	-245.7	0.00	0.00	0.00
11,900.0	6.87	296.54	11,850.2	377.2	-755.2	-249.2	0.00	0.00	0.00
12,000.0	6.87	296.54	11,949.4	382.6	-765.9	-252.8	0.00	0.00	0.00
12,022.6	6.87	296.54	11,971.9	383.8	-768.3	-253.6	0.00	0.00	0.00
12,050.0	6.14	273.03	11,999.1	384.6	-771.2	-253.9	10.00	-2.68	-85.80
12,100.0	7.67	232.34	12,048.8	382.7	-776.5	-251.2	10.00	3.08	-81.39
12,150.0	11.39	211.67	12,098.1	376.5	-781.8	-244.1	10.00	7.45	-41.33
12,200.0	15.83	201.73	12,146.7	365.9	-786.9	-232.9	10.00	8.87	-19.88
12,250.0	20.52	196.15	12,194.2	351.2	-791.9	-217.5	10.00	9.39	-11.16
12,300.0	25.33	192.60	12,240.2	332.3	-796.6	-198.1	10.00	9.61	-7.11
12,350.0	30.19	190.12	12,284.4	309.5	-801.2	-174.9	10.00	8.73	-4.95
12,400.0	35.09	188.27	12,326.5	282.8	-805.4	-147.9	10.00	9.80	-3.69
12,450.0	40.01	186.83	12,366.2	252.6	-809.4	-117.5	10.00	9.85	-2.88
12,500.0	44.95	185.66	12,403.0	219.1	-813.1	-83.8	10.00	9.87	-2.35
12,550.0	49.90	184.87	12,436.8	182.4	-816.4	-47.1	10.00	9.89	-1.97
12,600.0	54.85	183.82	12,467.4	142.9	-819.3	-7.6	10.00	9.91	-1.70
12,650.0	59.81	183.07	12,494.3	100.9	-821.8	34.2	10.00	9.92	-1.51
12,681.1	62.90	182.64	12,509.2	73.7	-823.2	61.3	10.00	9.93	-1.39
FTP(Horse 29 ST.#701H)									
12,700.0	64.78	182.39	12,517.6	56.7	-823.9	78.2	10.00	9.93	-1.32
12,750.0	69.74	181.76	12,536.9	10.7	-825.6	123.9	10.00	9.93	-1.26
12,800.0	74.71	181.17	12,552.2	-36.9	-826.8	171.0	10.00	9.94	-1.18
12,850.0	79.68	180.61	12,563.2	-85.6	-827.6	219.3	10.00	9.94	-1.12
12,900.0	84.65	180.07	12,570.0	-135.2	-827.9	268.2	10.00	9.94	-1.09
12,948.8	89.50	179.54	12,572.5	-183.8	-827.7	316.2	10.00	9.94	-1.07
13,000.0	89.50	179.54	12,573.0	-235.1	-827.3	366.7	0.00	0.00	0.00
13,100.0	89.50	179.54	12,573.8	-335.1	-826.5	465.2	0.00	0.00	0.00
13,200.0	89.50	179.54	12,574.7	-435.1	-825.7	563.7	0.00	0.00	0.00
13,300.0	89.50	179.54	12,575.6	-535.1	-824.9	662.2	0.00	0.00	0.00
13,400.0	89.50	179.54	12,576.5	-635.1	-824.1	760.8	0.00	0.00	0.00
13,500.0	89.50	179.54	12,577.3	-735.0	-823.3	859.3	0.00	0.00	0.00
13,600.0	89.50	179.54	12,578.2	-835.0	-822.5	957.8	0.00	0.00	0.00
13,700.0	89.50	179.54	12,579.1	-935.0	-821.7	1,056.4	0.00	0.00	0.00
13,800.0	89.50	179.54	12,580.0	-1,035.0	-820.9	1,154.9	0.00	0.00	0.00
13,900.0	89.50	179.54	12,580.8	-1,135.0	-820.1	1,253.4	0.00	0.00	0.00
14,000.0	89.50	179.54	12,581.7	-1,235.0	-819.3	1,351.9	0.00	0.00	0.00
14,100.0	89.50	179.54	12,582.6	-1,335.0	-818.5	1,450.5	0.00	0.00	0.00
14,200.0	89.50	179.54	12,583.4	-1,435.0	-817.7	1,549.0	0.00	0.00	0.00
14,300.0	89.50	179.54	12,584.3	-1,535.0	-816.9	1,647.5	0.00	0.00	0.00
14,400.0	89.50	179.54	12,585.2	-1,635.0	-816.1	1,746.1	0.00	0.00	0.00
14,500.0	89.50	179.54	12,586.1	-1,735.0	-815.3	1,844.6	0.00	0.00	0.00
14,600.0	89.50	179.54	12,586.9	-1,835.0	-814.5	1,943.1	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well #701H
Company:	EOG Resources - Midland	TVD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	MD Reference:	KB = 25 @ 3345.0usft (H&P 651)
Site:	Horse 29 State	North Reference:	Grid
Well:	#701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #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)
14,700.0	89.50	179.54	12,587.8	-1,935.0	-813.8	2,041.6	0.00	0.00	0.00
14,800.0	89.50	179.54	12,588.7	-2,035.0	-813.0	2,140.2	0.00	0.00	0.00
14,900.0	89.50	179.54	12,589.6	-2,134.9	-812.2	2,236.7	0.00	0.00	0.00
15,000.0	89.50	179.54	12,590.4	-2,234.9	-811.4	2,337.2	0.00	0.00	0.00
15,100.0	89.50	179.54	12,591.3	-2,334.9	-810.6	2,435.8	0.00	0.00	0.00
15,200.0	89.50	179.54	12,592.2	-2,434.9	-809.8	2,534.3	0.00	0.00	0.00
15,300.0	89.50	179.54	12,593.0	-2,534.9	-809.0	2,632.8	0.00	0.00	0.00
15,400.0	89.50	179.54	12,593.9	-2,634.9	-808.2	2,731.3	0.00	0.00	0.00
15,500.0	89.50	179.54	12,594.8	-2,734.9	-807.4	2,829.9	0.00	0.00	0.00
15,600.0	89.50	179.54	12,595.7	-2,834.9	-806.6	2,928.4	0.00	0.00	0.00
15,700.0	89.50	179.54	12,596.5	-2,934.9	-805.8	3,026.9	0.00	0.00	0.00
15,800.0	89.50	179.54	12,597.4	-3,034.9	-805.0	3,125.5	0.00	0.00	0.00
15,900.0	89.50	179.54	12,598.3	-3,134.9	-804.2	3,224.0	0.00	0.00	0.00
16,000.0	89.50	179.54	12,599.2	-3,234.9	-803.4	3,322.5	0.00	0.00	0.00
16,100.0	89.50	179.54	12,600.0	-3,334.9	-802.6	3,421.0	0.00	0.00	0.00
16,200.0	89.50	179.54	12,600.9	-3,434.9	-801.8	3,519.6	0.00	0.00	0.00
16,300.0	89.50	179.54	12,601.8	-3,534.9	-801.0	3,618.1	0.00	0.00	0.00
16,400.0	89.50	179.54	12,602.6	-3,634.8	-800.2	3,716.6	0.00	0.00	0.00
16,500.0	89.50	179.54	12,603.5	-3,734.8	-799.4	3,815.2	0.00	0.00	0.00
16,600.0	89.50	179.54	12,604.4	-3,834.8	-798.6	3,913.7	0.00	0.00	0.00
16,700.0	89.50	179.54	12,605.3	-3,934.8	-797.8	4,012.2	0.00	0.00	0.00
16,800.0	89.50	179.54	12,606.1	-4,034.8	-797.0	4,110.8	0.00	0.00	0.00
16,900.0	89.50	179.54	12,607.0	-4,134.8	-796.2	4,209.3	0.00	0.00	0.00
17,000.0	89.50	179.54	12,607.9	-4,234.8	-795.4	4,307.8	0.00	0.00	0.00
17,100.0	89.50	179.54	12,608.8	-4,334.8	-794.6	4,406.3	0.00	0.00	0.00
17,200.0	89.50	179.54	12,609.6	-4,434.8	-793.9	4,504.9	0.00	0.00	0.00
17,300.0	89.50	179.54	12,610.5	-4,534.8	-793.1	4,603.4	0.00	0.00	0.00
17,400.0	89.50	179.54	12,611.4	-4,634.8	-792.3	4,701.9	0.00	0.00	0.00
17,500.0	89.50	179.54	12,612.2	-4,734.8	-791.5	4,800.5	0.00	0.00	0.00
17,558.2	89.50	179.54	12,612.8	-4,793.0	-791.0	4,857.8	0.00	0.00	0.00
PBHL(Horse 29 ST #701H)									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP(Horse 29 ST #701H)	0.00	0.00	12,570.0	106.0	-830.0	403,911.00	758,355.00	32° 6' 27.788 N	103° 29' 56.226 W
- plan misses target center by 69.2usft at 12681.1usft MD (12509.2 TVD, 73.7 N, -823.2 E)									
- Point									
PBHL(Horse 29 ST #701H)	0.00	0.00	12,612.8	-4,793.0	-791.0	399,012.00	758,394.00	32° 5' 39.308 N	103° 29' 56.214 W
- plan hits target center									
- Point									

**EOG RESOURCES, INC.
HORSE 29 STATE #701H**

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.
HORSE 29 STATE #701H

- **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.
HORSE 29 STATE #701H**

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:

Jett Dueitt	Cell (432) 230-4840
Blake Burney	

Drilling Engineer

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

Drilling Manager

Heath Work	Office (432) 686-6716
	Cell (903) 780-1179

Drilling Superintendent

Jason Richey	Office (432) 686-3665
	Cell (817) 879-6521

H&P Drilling

H&P Drilling	Office (432) 563-5757
H&P 415 Drilling Rig	Rig (432) 230-4840

Tool Pusher:

Johnathan Craig	Cell (817) 760-6374
Brad Garrett	

Safety

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