

Wheatfield 16 State #702H

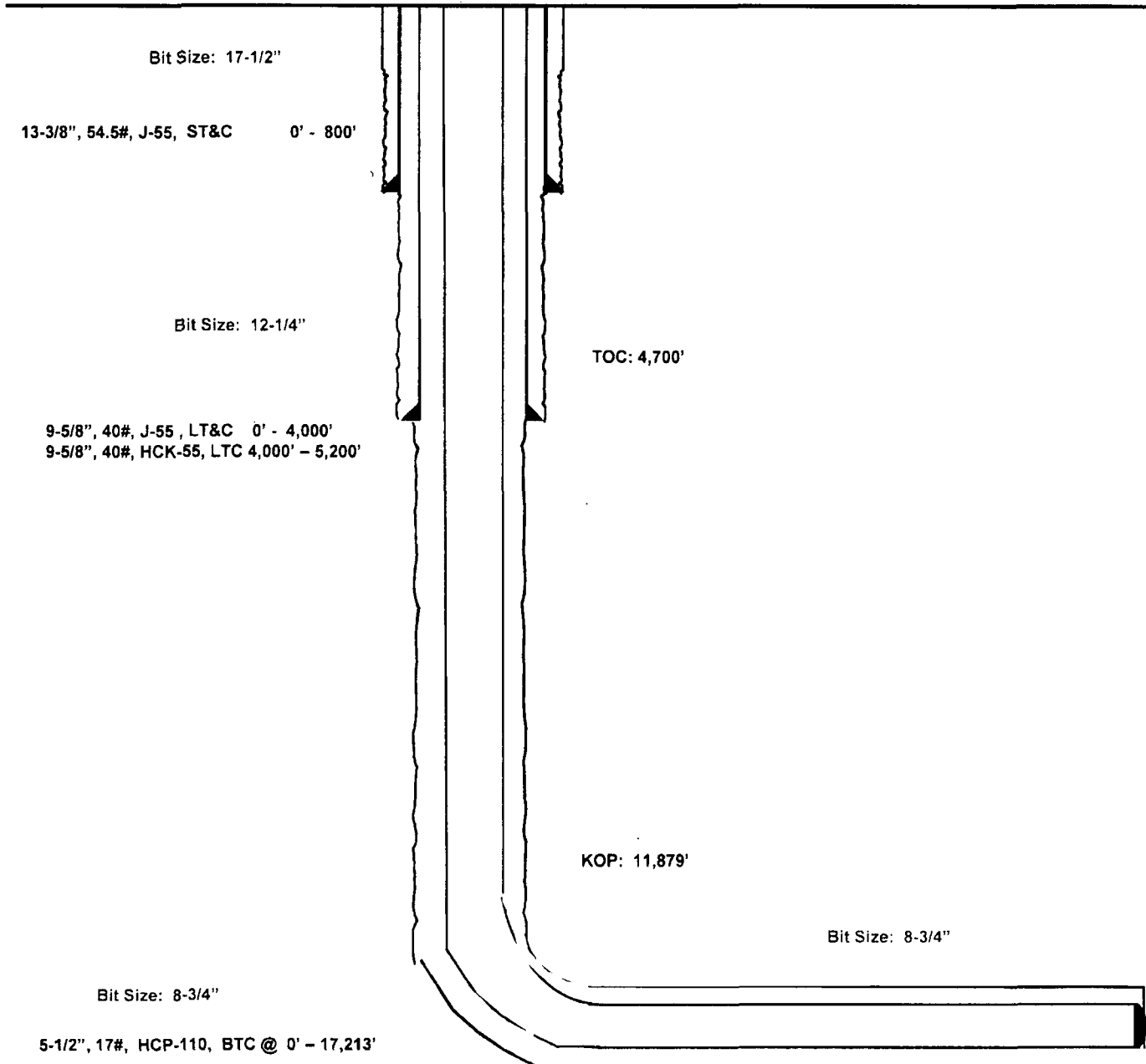
30-025-42787

230' FNL
2270' FEL
Section 16
T-25-S, R-35-E

Lea County, New Mexico
Proposed Wellbore

API: 30-025-

KB: 3,268'
GL: 3,243'



Lateral: 17,213' MD, 12,440' TVD

BH Location: 230' FSL & 1651' FEL
Section 16
T-25-S, R-35-E

SEP 16 2015



Lea County, NM (NAD 27 NME)

Wheatfield 16 State #702H

Precision 612

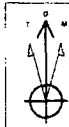
Plan #1

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

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

WELL DETAILS: #702H

Ground Level: 3243.0
KB = 25 @ 3268.0usft (Precision 612)
Northing 414830.00 Easting 787942.00 Latitude 32° 8' 12.706 N Longitude 103° 22' 14.833 W



Azimuths to Grid North
True North: 4.51°
Magnetic North: 8.51°
Magnetic Field
Strength: 48069.6nT
Dip Angle: 60.04°
Date: 11/24/2015
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 4.51°
To convert a Magnetic Direction to a True Direction, Add 7.02° East
To convert a True Direction to a Grid Direction, Subtract 0.51°

SECTION DETAILS

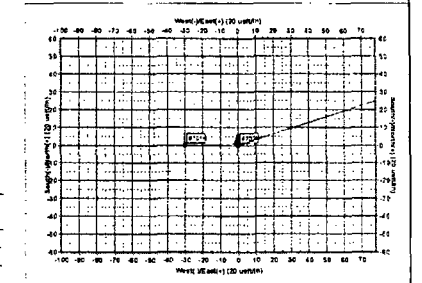
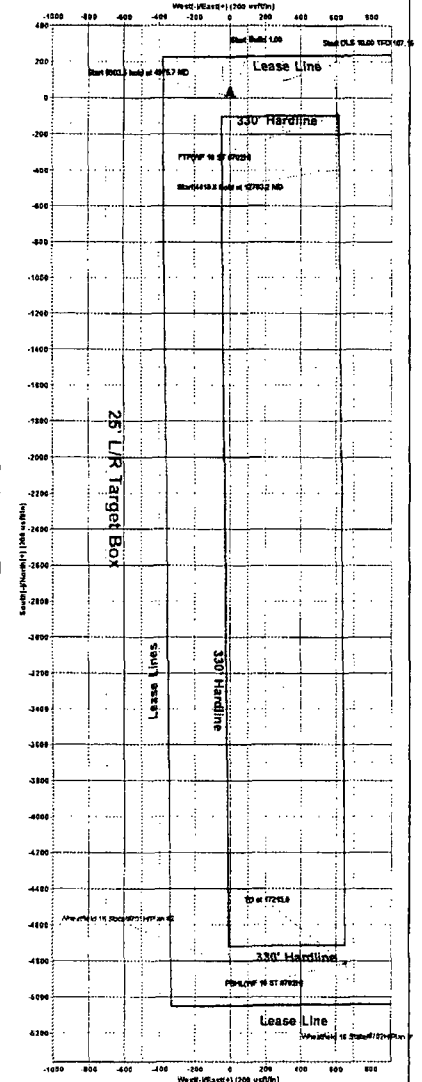
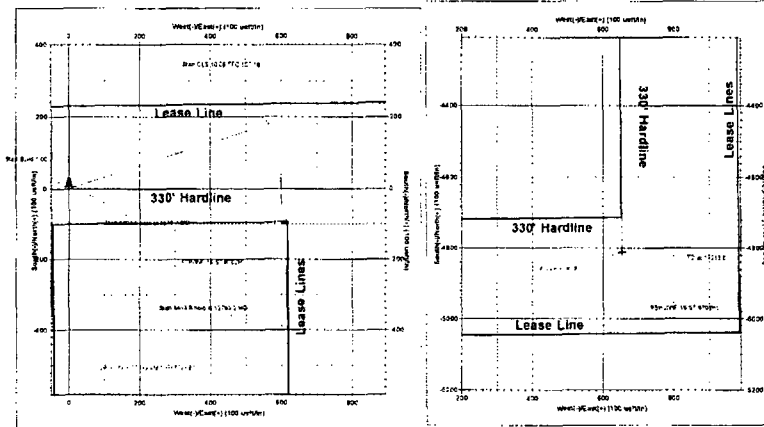
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0	
3	4975.7	4.76	72.30	4975.1	6.0	18.8	1.00	72.30	-3.4	
4	11879.2	4.76	72.30	11854.8	180.0	564.2	0.00	0.00	-102.5	
5	12793.2	90.00	179.51	12440.0	-392.4	615.5	10.00	107.16	471.6	
6	17213.0	90.00	179.51	12440.0	-4812.0	653.0	0.00	0.00	4856.1	PBHL(WF 16 ST #702H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
PTP(WF 16 ST #702H)	12440.0	94.0	813.0	414758.00	788565.00
PBHL(WF 16 ST #702H)	12440.0	-4812.0	533.0	410038.00	788565.00





EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Wheatfield 16 State

#702H

OH

Plan: Plan #1

Standard Planning Report

15 September, 2015



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Wheatfield 16 State
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3268.0usft (Precision 612)
MD Reference: KB = 25 @ 3268.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Wheatfield 16 State			
Site Position:		Northing:	414,850.00 usft	Latitude: 32° 8' 12.769 N
From: Map		Easting:	797,912.00 usft	Longitude: 103° 22' 15.232 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.51 °

Well	#702H			
Well Position	+N-S	0.0 usft	Northing:	414,850.00 usft
	+E-W	30.0 usft	Easting:	797,942.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level: 3,243.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	11/24/2015	7.02	60.04	48,070

Design	Plan #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	172.27

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	
4,975.7	4.76	72.30	4,975.1	6.0	18.8	1.00	1.00	0.00	72.30	
11,879.2	4.76	72.30	11,854.8	180.0	564.2	0.00	0.00	0.00	0.00	
12,793.2	90.00	179.51	12,440.0	-392.4	615.5	10.00	9.33	11.73	107.16	
17,213.0	90.00	179.51	12,440.0	-4,812.0	853.0	0.00	0.00	0.00	0.00	PBHL(WF 16 ST #70;



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MD Reference: KB = 25 @ 3268.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	72.30	4,600.0	0.3	0.8	-0.2	1.00	1.00	0.00
4,700.0	2.00	72.30	4,700.0	1.1	3.3	-0.6	1.00	1.00	0.00
4,800.0	3.00	72.30	4,799.9	2.4	7.5	-1.4	1.00	1.00	0.00
4,900.0	4.00	72.30	4,899.7	4.2	13.3	-2.4	1.00	1.00	0.00
4,975.7	4.76	72.30	4,975.1	6.0	18.8	-3.4	1.00	1.00	0.00
5,000.0	4.76	72.30	4,999.4	6.6	20.7	-3.8	0.00	0.00	0.00
5,100.0	4.76	72.30	5,099.0	9.1	28.6	-5.2	0.00	0.00	0.00
5,200.0	4.76	72.30	5,198.7	11.7	36.5	-6.6	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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 Project: Lea County, NM (NAD 27 NME)
 Site: Wheatfield 16 State
 Well: #702H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well #702H
 TVD Reference: KB = 25 @ 3268.0usft (Precision 612)
 MD Reference: KB = 25 @ 3268.0usft (Precision 612)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

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	4.76	72.30	5,298.3	14.2	44.4	-8.1	0.00	0.00	0.00
5,400.0	4.76	72.30	5,398.0	16.7	52.3	-9.5	0.00	0.00	0.00
5,500.0	4.76	72.30	5,497.6	19.2	60.2	-10.9	0.00	0.00	0.00
5,600.0	4.76	72.30	5,597.3	21.7	68.1	-12.4	0.00	0.00	0.00
5,700.0	4.76	72.30	5,697.0	24.3	76.0	-13.8	0.00	0.00	0.00
5,800.0	4.76	72.30	5,796.6	26.8	83.9	-15.3	0.00	0.00	0.00
5,900.0	4.76	72.30	5,896.3	29.3	91.8	-16.7	0.00	0.00	0.00
6,000.0	4.76	72.30	5,995.9	31.8	99.7	-18.1	0.00	0.00	0.00
6,100.0	4.76	72.30	6,095.6	34.3	107.6	-19.6	0.00	0.00	0.00
6,200.0	4.76	72.30	6,195.2	36.9	115.5	-21.0	0.00	0.00	0.00
6,300.0	4.76	72.30	6,294.9	39.4	123.4	-22.4	0.00	0.00	0.00
6,400.0	4.76	72.30	6,394.5	41.9	131.3	-23.9	0.00	0.00	0.00
6,500.0	4.76	72.30	6,494.2	44.4	139.2	-25.3	0.00	0.00	0.00
6,600.0	4.76	72.30	6,593.9	46.9	147.1	-26.7	0.00	0.00	0.00
6,700.0	4.76	72.30	6,693.5	49.5	155.0	-28.2	0.00	0.00	0.00
6,800.0	4.76	72.30	6,793.2	52.0	162.9	-29.6	0.00	0.00	0.00
6,900.0	4.76	72.30	6,892.8	54.5	170.8	-31.0	0.00	0.00	0.00
7,000.0	4.76	72.30	6,992.5	57.0	178.7	-32.5	0.00	0.00	0.00
7,100.0	4.76	72.30	7,092.1	59.5	186.6	-33.9	0.00	0.00	0.00
7,200.0	4.76	72.30	7,191.8	62.1	194.5	-35.3	0.00	0.00	0.00
7,300.0	4.76	72.30	7,291.4	64.6	202.4	-36.8	0.00	0.00	0.00
7,400.0	4.76	72.30	7,391.1	67.1	210.3	-38.2	0.00	0.00	0.00
7,500.0	4.76	72.30	7,490.8	69.6	218.2	-39.7	0.00	0.00	0.00
7,600.0	4.76	72.30	7,590.4	72.1	226.1	-41.1	0.00	0.00	0.00
7,700.0	4.76	72.30	7,690.1	74.7	234.0	-42.5	0.00	0.00	0.00
7,800.0	4.76	72.30	7,789.7	77.2	241.9	-44.0	0.00	0.00	0.00
7,900.0	4.76	72.30	7,889.4	79.7	249.8	-45.4	0.00	0.00	0.00
8,000.0	4.76	72.30	7,989.0	82.2	257.7	-46.8	0.00	0.00	0.00
8,100.0	4.76	72.30	8,088.7	84.8	265.6	-48.3	0.00	0.00	0.00
8,200.0	4.76	72.30	8,188.3	87.3	273.5	-49.7	0.00	0.00	0.00
8,300.0	4.76	72.30	8,288.0	89.8	281.4	-51.1	0.00	0.00	0.00
8,400.0	4.76	72.30	8,387.7	92.3	289.3	-52.6	0.00	0.00	0.00
8,500.0	4.76	72.30	8,487.3	94.8	297.2	-54.0	0.00	0.00	0.00
8,600.0	4.76	72.30	8,587.0	97.4	305.1	-55.4	0.00	0.00	0.00
8,700.0	4.76	72.30	8,686.6	99.9	313.0	-56.9	0.00	0.00	0.00
8,800.0	4.76	72.30	8,786.3	102.4	320.9	-58.3	0.00	0.00	0.00
8,900.0	4.76	72.30	8,885.9	104.9	328.8	-59.8	0.00	0.00	0.00
9,000.0	4.76	72.30	8,985.6	107.4	336.7	-61.2	0.00	0.00	0.00
9,100.0	4.76	72.30	9,085.2	110.0	344.6	-62.6	0.00	0.00	0.00
9,200.0	4.76	72.30	9,184.9	112.5	352.5	-64.1	0.00	0.00	0.00
9,300.0	4.76	72.30	9,284.6	115.0	360.4	-65.5	0.00	0.00	0.00
9,400.0	4.76	72.30	9,384.2	117.5	368.3	-66.9	0.00	0.00	0.00
9,500.0	4.76	72.30	9,483.9	120.0	376.2	-68.4	0.00	0.00	0.00
9,600.0	4.76	72.30	9,583.5	122.6	384.1	-69.8	0.00	0.00	0.00
9,700.0	4.76	72.30	9,683.2	125.1	392.0	-71.2	0.00	0.00	0.00
9,800.0	4.76	72.30	9,782.8	127.6	399.9	-72.7	0.00	0.00	0.00
9,900.0	4.76	72.30	9,882.5	130.1	407.8	-74.1	0.00	0.00	0.00
10,000.0	4.76	72.30	9,982.1	132.6	415.7	-75.5	0.00	0.00	0.00
10,100.0	4.76	72.30	10,081.8	135.2	423.6	-77.0	0.00	0.00	0.00
10,200.0	4.76	72.30	10,181.5	137.7	431.5	-78.4	0.00	0.00	0.00
10,300.0	4.76	72.30	10,281.1	140.2	439.4	-79.9	0.00	0.00	0.00
10,400.0	4.76	72.30	10,380.8	142.7	447.3	-81.3	0.00	0.00	0.00
10,500.0	4.76	72.30	10,480.4	145.2	455.2	-82.7	0.00	0.00	0.00
10,600.0	4.76	72.30	10,580.1	147.8	463.1	-84.2	0.00	0.00	0.00



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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	4.76	72.30	10,679.7	150.3	471.0	-85.6	0.00	0.00	0.00
10,800.0	4.76	72.30	10,779.4	152.8	478.9	-87.0	0.00	0.00	0.00
10,900.0	4.76	72.30	10,879.1	155.3	486.8	-88.5	0.00	0.00	0.00
11,000.0	4.76	72.30	10,978.7	157.9	494.7	-89.9	0.00	0.00	0.00
11,100.0	4.76	72.30	11,078.4	160.4	502.6	-91.3	0.00	0.00	0.00
11,200.0	4.76	72.30	11,178.0	162.9	510.5	-92.8	0.00	0.00	0.00
11,300.0	4.76	72.30	11,277.7	165.4	518.4	-94.2	0.00	0.00	0.00
11,400.0	4.76	72.30	11,377.3	167.9	526.3	-95.6	0.00	0.00	0.00
11,500.0	4.76	72.30	11,477.0	170.5	534.2	-97.1	0.00	0.00	0.00
11,600.0	4.76	72.30	11,576.6	173.0	542.1	-98.5	0.00	0.00	0.00
11,700.0	4.76	72.30	11,676.3	175.5	550.0	-99.9	0.00	0.00	0.00
11,800.0	4.76	72.30	11,776.0	178.0	557.9	-101.4	0.00	0.00	0.00
11,879.2	4.76	72.30	11,854.8	180.0	564.2	-102.5	0.00	0.00	0.00
11,900.0	4.59	98.02	11,875.6	180.2	565.8	-102.4	10.00	-0.78	123.35
11,950.0	7.27	140.97	11,925.4	177.4	569.8	-99.2	10.00	5.35	85.89
12,000.0	11.60	156.72	11,974.7	170.3	573.8	-91.6	10.00	8.65	31.51
12,050.0	16.31	163.75	12,023.2	159.0	577.7	-79.9	10.00	9.43	14.06
12,100.0	21.15	167.66	12,070.5	143.4	581.6	-63.9	10.00	9.69	7.82
12,150.0	26.05	170.16	12,116.3	123.8	585.4	-43.9	10.00	9.80	5.00
12,200.0	30.98	171.91	12,160.3	100.2	589.1	-20.1	10.00	9.86	3.50
12,250.0	35.93	173.22	12,202.0	72.9	592.7	7.5	10.00	9.90	2.62
12,300.0	40.89	174.25	12,241.1	42.0	596.0	38.5	10.00	9.92	2.06
12,350.0	45.85	175.09	12,277.5	7.8	599.2	72.8	10.00	9.93	1.68
12,400.0	50.83	175.80	12,310.7	-29.4	602.2	110.1	10.00	9.94	1.42
12,450.0	55.80	176.42	12,340.6	-69.4	604.9	150.1	10.00	9.95	1.23
12,500.0	60.78	176.97	12,366.8	-111.8	607.3	192.5	10.00	9.96	1.10
12,517.2	62.50	177.14	12,375.0	-127.0	608.1	207.6	10.00	9.96	1.02
FTP(WF 16 ST #702H)									
12,550.0	65.76	177.46	12,389.3	-156.4	609.5	237.0	10.00	9.96	0.98
12,600.0	70.74	177.92	12,407.8	-202.8	611.4	283.2	10.00	9.96	0.92
12,650.0	75.72	178.36	12,422.3	-250.7	612.9	330.8	10.00	9.97	0.86
12,700.0	80.71	178.77	12,432.5	-299.6	614.1	379.4	10.00	9.97	0.83
12,750.0	85.69	179.17	12,438.4	-349.2	615.0	428.7	10.00	9.97	0.80
12,793.2	90.00	179.51	12,440.0	-392.4	615.5	471.6	10.00	9.97	0.79
12,800.0	90.00	179.51	12,440.0	-399.1	615.6	478.3	0.00	0.00	0.00
12,900.0	90.00	179.51	12,440.0	-499.1	616.4	577.5	0.00	0.00	0.00
13,000.0	90.00	179.51	12,440.0	-599.1	617.3	676.7	0.00	0.00	0.00
13,100.0	90.00	179.51	12,440.0	-699.1	618.1	775.9	0.00	0.00	0.00
13,200.0	90.00	179.51	12,440.0	-799.1	619.0	875.1	0.00	0.00	0.00
13,300.0	90.00	179.51	12,440.0	-899.1	619.8	974.3	0.00	0.00	0.00
13,400.0	90.00	179.51	12,440.0	-999.1	620.7	1,073.5	0.00	0.00	0.00
13,500.0	90.00	179.51	12,440.0	-1,099.1	621.5	1,172.7	0.00	0.00	0.00
13,600.0	90.00	179.51	12,440.0	-1,199.1	622.4	1,271.9	0.00	0.00	0.00
13,700.0	90.00	179.51	12,440.0	-1,299.1	623.2	1,371.1	0.00	0.00	0.00
13,800.0	90.00	179.51	12,440.0	-1,399.1	624.1	1,470.3	0.00	0.00	0.00
13,900.0	90.00	179.51	12,440.0	-1,499.1	624.9	1,569.5	0.00	0.00	0.00
14,000.0	90.00	179.51	12,440.0	-1,599.1	625.8	1,668.7	0.00	0.00	0.00
14,100.0	90.00	179.51	12,440.0	-1,699.1	626.6	1,767.9	0.00	0.00	0.00
14,200.0	90.00	179.51	12,440.0	-1,799.1	627.5	1,867.1	0.00	0.00	0.00
14,300.0	90.00	179.51	12,440.0	-1,899.1	628.3	1,966.3	0.00	0.00	0.00
14,400.0	90.00	179.51	12,440.0	-1,999.1	629.2	2,065.5	0.00	0.00	0.00
14,500.0	90.00	179.51	12,440.0	-2,099.1	630.0	2,164.7	0.00	0.00	0.00
14,600.0	90.00	179.51	12,440.0	-2,199.1	630.8	2,263.9	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Wheatfield 16 State
Well: #702H
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well #702H
TVD Reference: KB = 25 @ 3268.0usft (Precision 612)
MD Reference: KB = 25 @ 3268.0usft (Precision 612)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	90.00	179.51	12,440.0	-2,299.1	631.7	2,363.1	0.00	0.00	0.00
14,800.0	90.00	179.51	12,440.0	-2,399.1	632.5	2,462.3	0.00	0.00	0.00
14,900.0	90.00	179.51	12,440.0	-2,499.1	633.4	2,561.5	0.00	0.00	0.00
15,000.0	90.00	179.51	12,440.0	-2,599.1	634.2	2,660.7	0.00	0.00	0.00
15,100.0	90.00	179.51	12,440.0	-2,699.1	635.1	2,759.9	0.00	0.00	0.00
15,200.0	90.00	179.51	12,440.0	-2,799.1	635.9	2,859.2	0.00	0.00	0.00
15,300.0	90.00	179.51	12,440.0	-2,899.1	636.8	2,958.4	0.00	0.00	0.00
15,400.0	90.00	179.51	12,440.0	-2,999.1	637.6	3,057.6	0.00	0.00	0.00
15,500.0	90.00	179.51	12,440.0	-3,099.1	638.5	3,156.8	0.00	0.00	0.00
15,600.0	90.00	179.51	12,440.0	-3,199.0	639.3	3,256.0	0.00	0.00	0.00
15,700.0	90.00	179.51	12,440.0	-3,299.0	640.2	3,355.2	0.00	0.00	0.00
15,800.0	90.00	179.51	12,440.0	-3,399.0	641.0	3,454.4	0.00	0.00	0.00
15,900.0	90.00	179.51	12,440.0	-3,499.0	641.9	3,553.6	0.00	0.00	0.00
16,000.0	90.00	179.51	12,440.0	-3,599.0	642.7	3,652.8	0.00	0.00	0.00
16,100.0	90.00	179.51	12,440.0	-3,699.0	643.6	3,752.0	0.00	0.00	0.00
16,200.0	90.00	179.51	12,440.0	-3,799.0	644.4	3,851.2	0.00	0.00	0.00
16,300.0	90.00	179.51	12,440.0	-3,899.0	645.3	3,950.4	0.00	0.00	0.00
16,400.0	90.00	179.51	12,440.0	-3,999.0	646.1	4,049.6	0.00	0.00	0.00
16,500.0	90.00	179.51	12,440.0	-4,099.0	647.0	4,148.8	0.00	0.00	0.00
16,600.0	90.00	179.51	12,440.0	-4,199.0	647.8	4,248.0	0.00	0.00	0.00
16,700.0	90.00	179.51	12,440.0	-4,299.0	648.7	4,347.2	0.00	0.00	0.00
16,800.0	90.00	179.51	12,440.0	-4,399.0	649.5	4,446.4	0.00	0.00	0.00
16,900.0	90.00	179.51	12,440.0	-4,499.0	650.3	4,545.6	0.00	0.00	0.00
17,000.0	90.00	179.51	12,440.0	-4,599.0	651.2	4,644.8	0.00	0.00	0.00
17,100.0	90.00	179.51	12,440.0	-4,699.0	652.0	4,744.0	0.00	0.00	0.00
17,200.0	90.00	179.51	12,440.0	-4,799.0	652.9	4,843.2	0.00	0.00	0.00
17,213.0	90.00	179.51	12,440.0	-4,812.0	653.0	4,856.1	0.00	0.00	0.00

PBHL(WF 16 ST #702H)

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL(WF 16 ST #702H) - hit/miss target - Shape - Point	0.00	0.00	12,440.0	-4,812.0	653.0	410,038.00	798,595.00	32° 7' 25.093 N	103° 22' 7.790 W
FTP(WF 16 ST #702H) - plan misses target center by 73.0usft at 12517.2usft MD (12375.0 TVD, -127.0 N, 608.1 E) - Point	0.00	0.00	12,440.0	-94.0	613.0	414,756.00	798,555.00	32° 8' 11.782 N	103° 22' 7.764 W

**EOG RESOURCES, INC.
WHEATFIELD 16 STATE #702H**

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 th 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.
WHEATFIELD 16 STATE #702H

- **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.
WHEATFIELD 16 STATE #702H

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