eog resources

Lea County, NM (NAD 27 NME)

#703H

H&P 651

Plan #0.1

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

Azimuths to Grid North
True North: -0.47°
Magnetic North: 6.81°

Magnetic Field
Strength: 47964.3snT
Dip Angle: 59.96°
Date: 7/10/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.51°
To convert a Magnetic Direction to a True Direction, Add 6.98° East
To convert a True Direction to a Grid Direction, Subtract 0.47°

WELL DETAILS: #703H

Ground Level: 3305.0
KB = 26 @ 3330.0usft (H&P 651)

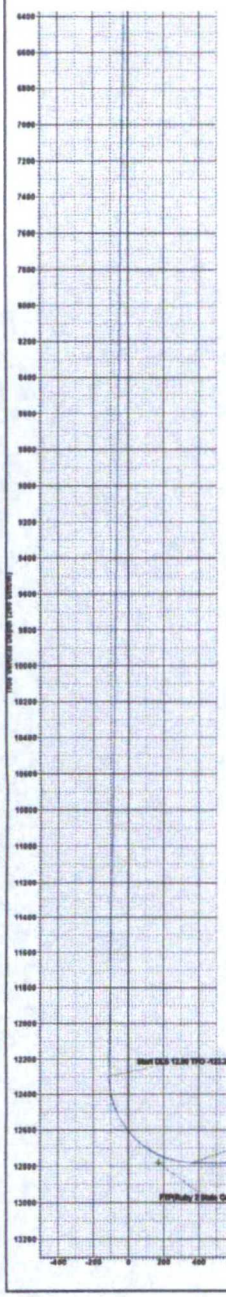
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	388701.00	775663.00	32° 3' 55.917 N	103° 26' 37.752 W	

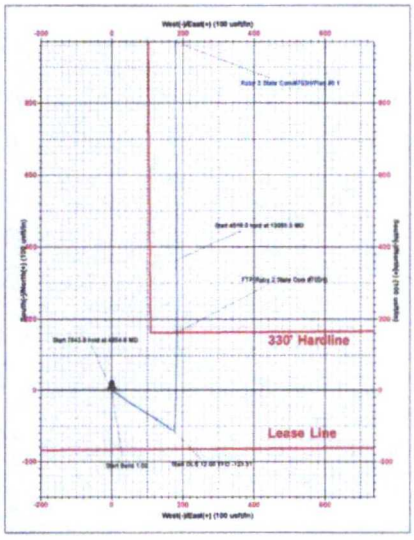
SECTION DETAILS

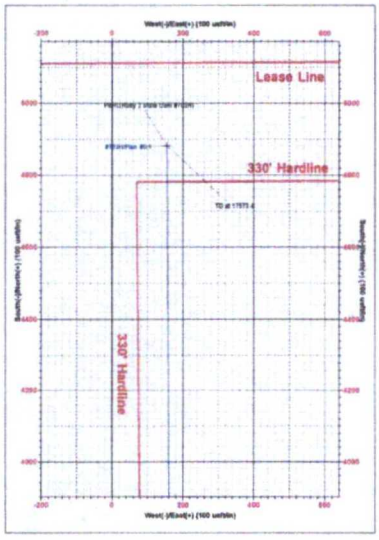
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	4500.0	0.00	0.00	4500.0	0.0	0.0	0.00	0.00	0.0		
3	4654.6	1.55	122.97	4654.6	-1.1	1.9	1.00	122.97	-1.1		
4	12298.4	1.55	122.97	12295.6	-113.4	174.5	0.00	0.00	-107.8		
5	13065.5	90.00	359.65	12790.0	364.1	182.8	12.00	-123.31	369.7		
6	17573.4	90.00	359.65	12790.0	4882.0	168.0	0.00	0.00	4884.5	PBHL(Ruby 2 State Com #703H)	

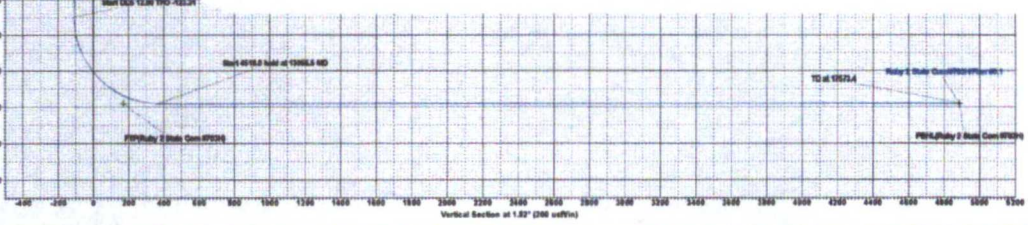
WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

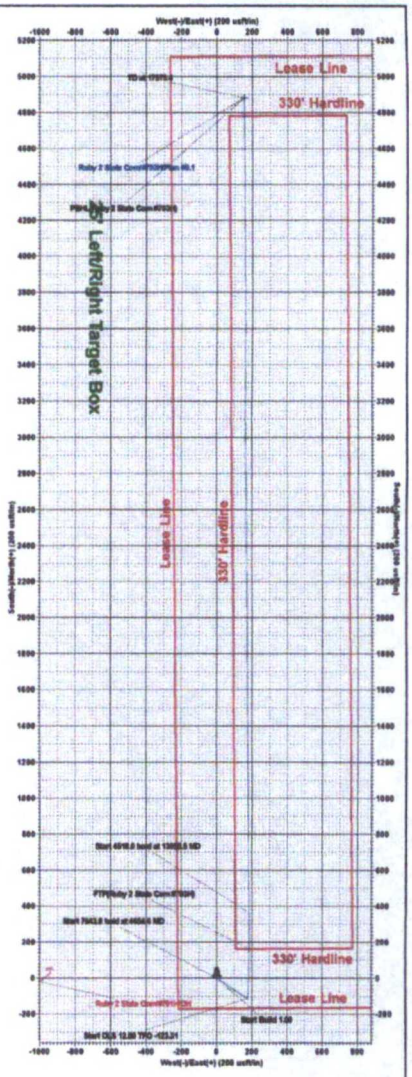
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP(Ruby 2 State Com #703H)	12790.0	184.0	184.0	388885.00	776737.00	Point
PBHL(Ruby 2 State Com #703H)	12790.0	4882.0	168.0	393583.00	775708.00	Point

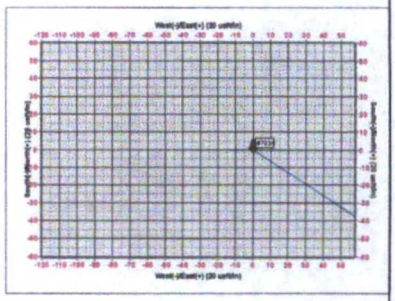












EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Ruby 2 State Com
#703H

OH

Plan: Plan #0.1

Standard Planning Report

09 March, 2016

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #703H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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	Ruby 2 State Com				
Site Position:		**Northing:**	388,748.00 usft	**Latitude:**	32° 3' 56.457 N
From:	Map	**Easting:**	774,632.00 usft	**Longitude:**	103° 26' 48.449 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.47 °

Well	#703H					
Well Position	**+N/-S**	-47.0 usft	**Northing:**	388,701.00 usft	**Latitude:**	32° 3' 55.917 N
	+E/-W	921.0 usft	**Easting:**	775,553.00 usft	**Longitude:**	103° 26' 37.752 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,305.0 usft

Wellbore	OH			
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2015	7/10/2016	6.98	59.95	47,954

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	1.82	

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	
4,654.6	1.55	122.97	4,654.6	-1.1	1.8	1.00	1.00	0.00	122.97	
12,298.4	1.55	122.97	12,295.6	-113.4	174.8	0.00	0.00	0.00	0.00	
13,055.5	90.00	359.65	12,780.0	364.1	182.8	12.00	11.68	-16.29	-123.31	
17,573.4	90.00	359.65	12,780.0	4,882.0	155.0	0.00	0.00	0.00	0.00	PBHL(Ruby 2 State C

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #703H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**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	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	122.97	4,600.0	-0.5	0.7	-0.5	1.00	1.00	0.00
4,654.6	1.55	122.97	4,654.6	-1.1	1.8	-1.1	1.00	1.00	0.00
4,700.0	1.55	122.97	4,700.0	-1.8	2.8	-1.7	0.00	0.00	0.00
4,800.0	1.55	122.97	4,799.9	-3.3	5.0	-3.1	0.00	0.00	0.00
4,900.0	1.55	122.97	4,899.9	-4.7	7.3	-4.5	0.00	0.00	0.00
5,000.0	1.55	122.97	4,999.9	-6.2	9.6	-5.9	0.00	0.00	0.00
5,100.0	1.55	122.97	5,099.8	-7.7	11.8	-7.3	0.00	0.00	0.00
5,200.0	1.55	122.97	5,199.8	-9.1	14.1	-8.7	0.00	0.00	0.00

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Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**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	1.55	122.97	5,299.7	-10.6	16.4	-10.1	0.00	0.00	0.00
5,400.0	1.55	122.97	5,399.7	-12.1	18.6	-11.5	0.00	0.00	0.00
5,500.0	1.55	122.97	5,499.7	-13.5	20.9	-12.9	0.00	0.00	0.00
5,600.0	1.55	122.97	5,599.6	-15.0	23.2	-14.3	0.00	0.00	0.00
5,700.0	1.55	122.97	5,699.6	-16.5	25.4	-15.7	0.00	0.00	0.00
5,800.0	1.55	122.97	5,799.6	-18.0	27.7	-17.1	0.00	0.00	0.00
5,900.0	1.55	122.97	5,899.5	-19.4	29.9	-18.5	0.00	0.00	0.00
6,000.0	1.55	122.97	5,999.5	-20.9	32.2	-19.9	0.00	0.00	0.00
6,100.0	1.55	122.97	6,099.5	-22.4	34.5	-21.3	0.00	0.00	0.00
6,200.0	1.55	122.97	6,199.4	-23.8	36.7	-22.6	0.00	0.00	0.00
6,300.0	1.55	122.97	6,299.4	-25.3	39.0	-24.0	0.00	0.00	0.00
6,400.0	1.55	122.97	6,399.3	-26.8	41.3	-25.4	0.00	0.00	0.00
6,500.0	1.55	122.97	6,499.3	-28.2	43.5	-26.8	0.00	0.00	0.00
6,600.0	1.55	122.97	6,599.3	-29.7	45.8	-28.2	0.00	0.00	0.00
6,700.0	1.55	122.97	6,699.2	-31.2	48.1	-29.6	0.00	0.00	0.00
6,800.0	1.55	122.97	6,799.2	-32.6	50.3	-31.0	0.00	0.00	0.00
6,900.0	1.55	122.97	6,899.2	-34.1	52.6	-32.4	0.00	0.00	0.00
7,000.0	1.55	122.97	6,999.1	-35.6	54.8	-33.8	0.00	0.00	0.00
7,100.0	1.55	122.97	7,099.1	-37.0	57.1	-35.2	0.00	0.00	0.00
7,200.0	1.55	122.97	7,199.1	-38.5	59.4	-36.6	0.00	0.00	0.00
7,300.0	1.55	122.97	7,299.0	-40.0	61.6	-38.0	0.00	0.00	0.00
7,400.0	1.55	122.97	7,399.0	-41.4	63.9	-39.4	0.00	0.00	0.00
7,500.0	1.55	122.97	7,498.9	-42.9	66.2	-40.8	0.00	0.00	0.00
7,600.0	1.55	122.97	7,598.9	-44.4	68.4	-42.2	0.00	0.00	0.00
7,700.0	1.55	122.97	7,698.9	-45.9	70.7	-43.6	0.00	0.00	0.00
7,800.0	1.55	122.97	7,798.8	-47.3	73.0	-45.0	0.00	0.00	0.00
7,900.0	1.55	122.97	7,898.8	-48.8	75.2	-46.4	0.00	0.00	0.00
8,000.0	1.55	122.97	7,998.8	-50.3	77.5	-47.8	0.00	0.00	0.00
8,100.0	1.55	122.97	8,098.7	-51.7	79.7	-49.2	0.00	0.00	0.00
8,200.0	1.55	122.97	8,198.7	-53.2	82.0	-50.6	0.00	0.00	0.00
8,300.0	1.55	122.97	8,298.7	-54.7	84.3	-52.0	0.00	0.00	0.00
8,400.0	1.55	122.97	8,398.6	-56.1	86.5	-53.4	0.00	0.00	0.00
8,500.0	1.55	122.97	8,498.6	-57.6	88.8	-54.8	0.00	0.00	0.00
8,600.0	1.55	122.97	8,598.5	-59.1	91.1	-56.1	0.00	0.00	0.00
8,700.0	1.55	122.97	8,698.5	-60.5	93.3	-57.5	0.00	0.00	0.00
8,800.0	1.55	122.97	8,798.5	-62.0	95.6	-58.9	0.00	0.00	0.00
8,900.0	1.55	122.97	8,898.4	-63.5	97.9	-60.3	0.00	0.00	0.00
9,000.0	1.55	122.97	8,998.4	-64.9	100.1	-61.7	0.00	0.00	0.00
9,100.0	1.55	122.97	9,098.4	-66.4	102.4	-63.1	0.00	0.00	0.00
9,200.0	1.55	122.97	9,198.3	-67.9	104.6	-64.5	0.00	0.00	0.00
9,300.0	1.55	122.97	9,298.3	-69.3	106.9	-65.9	0.00	0.00	0.00
9,400.0	1.55	122.97	9,398.3	-70.8	109.2	-67.3	0.00	0.00	0.00
9,500.0	1.55	122.97	9,498.2	-72.3	111.4	-68.7	0.00	0.00	0.00
9,600.0	1.55	122.97	9,598.2	-73.7	113.7	-70.1	0.00	0.00	0.00
9,700.0	1.55	122.97	9,698.1	-75.2	116.0	-71.5	0.00	0.00	0.00
9,800.0	1.55	122.97	9,798.1	-76.7	118.2	-72.9	0.00	0.00	0.00
9,900.0	1.55	122.97	9,898.1	-78.2	120.5	-74.3	0.00	0.00	0.00
10,000.0	1.55	122.97	9,998.0	-79.6	122.8	-75.7	0.00	0.00	0.00
10,100.0	1.55	122.97	10,098.0	-81.1	125.0	-77.1	0.00	0.00	0.00
10,200.0	1.55	122.97	10,198.0	-82.6	127.3	-78.5	0.00	0.00	0.00
10,300.0	1.55	122.97	10,297.9	-84.0	129.5	-79.9	0.00	0.00	0.00
10,400.0	1.55	122.97	10,397.9	-85.5	131.8	-81.3	0.00	0.00	0.00
10,500.0	1.55	122.97	10,497.9	-87.0	134.1	-82.7	0.00	0.00	0.00
10,600.0	1.55	122.97	10,597.8	-88.4	136.3	-84.1	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #703H
Company:	EOG Resources - Midland	**TVD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Project:	Lea County, NM (NAD 27 NME)	**MD Reference:**	KB = 25 @ 3330.0usft (H&P 651)
Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**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	1.55	122.97	10,697.8	-89.9	138.6	-85.5	0.00	0.00	0.00
10,800.0	1.55	122.97	10,797.7	-91.4	140.9	-86.9	0.00	0.00	0.00
10,900.0	1.55	122.97	10,897.7	-92.8	143.1	-88.2	0.00	0.00	0.00
11,000.0	1.55	122.97	10,997.7	-94.3	145.4	-89.6	0.00	0.00	0.00
11,100.0	1.55	122.97	11,097.6	-95.8	147.7	-91.0	0.00	0.00	0.00
11,200.0	1.55	122.97	11,197.6	-97.2	149.9	-92.4	0.00	0.00	0.00
11,300.0	1.55	122.97	11,297.6	-98.7	152.2	-93.8	0.00	0.00	0.00
11,400.0	1.55	122.97	11,397.5	-100.2	154.4	-95.2	0.00	0.00	0.00
11,500.0	1.55	122.97	11,497.5	-101.6	156.7	-96.6	0.00	0.00	0.00
11,600.0	1.55	122.97	11,597.5	-103.1	159.0	-98.0	0.00	0.00	0.00
11,700.0	1.55	122.97	11,697.4	-104.6	161.2	-99.4	0.00	0.00	0.00
11,800.0	1.55	122.97	11,797.4	-106.1	163.5	-100.8	0.00	0.00	0.00
11,900.0	1.55	122.97	11,897.3	-107.5	165.8	-102.2	0.00	0.00	0.00
12,000.0	1.55	122.97	11,997.3	-109.0	168.0	-103.6	0.00	0.00	0.00
12,100.0	1.55	122.97	12,097.3	-110.5	170.3	-105.0	0.00	0.00	0.00
12,200.0	1.55	122.97	12,197.2	-111.9	172.6	-106.4	0.00	0.00	0.00
12,298.4	1.55	122.97	12,295.6	-113.4	174.8	-107.8	0.00	0.00	0.00
12,300.0	1.45	116.54	12,297.2	-113.4	174.8	-107.8	12.00	-6.03	-397.50
12,325.0	2.68	28.49	12,322.2	-113.0	175.4	-107.4	12.00	4.91	-352.21
12,350.0	5.50	13.20	12,347.1	-111.3	175.9	-105.7	12.00	11.29	-61.16
12,375.0	8.44	8.39	12,371.9	-108.4	176.5	-102.7	12.00	11.78	-19.25
12,400.0	11.42	6.06	12,396.6	-104.1	177.0	-98.4	12.00	11.89	-9.31
12,425.0	14.40	4.69	12,420.9	-98.5	177.5	-92.8	12.00	11.94	-5.49
12,450.0	17.39	3.78	12,445.0	-91.7	178.0	-86.0	12.00	11.96	-3.64
12,475.0	20.38	3.13	12,468.6	-83.6	178.5	-77.9	12.00	11.97	-2.60
12,500.0	23.38	2.64	12,491.8	-74.3	179.0	-68.6	12.00	11.98	-1.96
12,525.0	26.37	2.25	12,514.5	-63.8	179.4	-58.1	12.00	11.98	-1.53
12,550.0	29.37	1.94	12,536.6	-52.1	179.8	-46.4	12.00	11.99	-1.24
12,575.0	32.37	1.69	12,558.0	-39.3	180.2	-33.6	12.00	11.99	-1.03
12,600.0	35.37	1.47	12,578.8	-25.4	180.6	-19.6	12.00	11.99	-0.87
12,625.0	38.36	1.28	12,598.8	-10.4	181.0	-4.6	12.00	11.99	-0.75
12,650.0	41.36	1.12	12,618.0	5.6	181.3	11.4	12.00	11.99	-0.66
12,675.0	44.36	0.97	12,636.3	22.6	181.6	28.4	12.00	11.99	-0.59
12,700.0	47.36	0.84	12,653.7	40.6	181.9	46.3	12.00	11.99	-0.53
12,725.0	50.36	0.72	12,670.2	59.4	182.2	65.1	12.00	11.99	-0.48
12,750.0	53.36	0.61	12,685.6	79.0	182.4	84.8	12.00	12.00	-0.44
12,775.0	56.35	0.51	12,700.0	99.5	182.6	105.2	12.00	12.00	-0.40
12,800.0	59.35	0.41	12,713.3	120.7	182.8	126.4	12.00	12.00	-0.38
12,825.0	62.35	0.32	12,725.5	142.5	182.9	148.2	12.00	12.00	-0.35
12,850.0	65.35	0.24	12,736.5	164.9	183.0	170.6	12.00	12.00	-0.34
12,866.3	67.30	0.19	12,743.0	179.8	183.1	185.5	12.00	12.00	-0.32
FTP(Ruby 2 State Com #703H)									
12,875.0	68.35	0.16	12,746.3	187.9	183.1	193.6	12.00	12.00	-0.32
12,900.0	71.35	0.08	12,754.9	211.4	183.1	217.1	12.00	12.00	-0.31
12,925.0	74.35	0.01	12,762.3	235.3	183.2	241.0	12.00	12.00	-0.30
12,950.0	77.35	359.94	12,768.4	259.5	183.2	265.2	12.00	12.00	-0.29
12,975.0	80.35	359.87	12,773.2	284.0	183.1	289.7	12.00	12.00	-0.28
13,000.0	83.35	359.80	12,776.8	308.8	183.0	314.4	12.00	12.00	-0.28
13,025.0	86.35	359.73	12,779.0	333.7	182.9	339.3	12.00	12.00	-0.27
13,050.0	89.34	359.66	12,780.0	358.6	182.8	364.3	12.00	12.00	-0.27
13,055.5	90.00	359.65	12,780.0	364.1	182.8	369.7	12.00	12.00	-0.27
13,100.0	90.00	359.65	12,780.0	408.6	182.5	414.2	0.00	0.00	0.00
13,200.0	90.00	359.65	12,780.0	508.6	181.9	514.2	0.00	0.00	0.00

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Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**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)
13,300.0	90.00	359.65	12,780.0	608.6	181.3	614.1	0.00	0.00	0.00
13,400.0	90.00	359.65	12,780.0	708.6	180.7	714.0	0.00	0.00	0.00
13,500.0	90.00	359.65	12,780.0	808.6	180.0	813.9	0.00	0.00	0.00
13,600.0	90.00	359.65	12,780.0	908.6	179.4	913.9	0.00	0.00	0.00
13,700.0	90.00	359.65	12,780.0	1,008.6	178.8	1,013.8	0.00	0.00	0.00
13,800.0	90.00	359.65	12,780.0	1,108.6	178.2	1,113.7	0.00	0.00	0.00
13,900.0	90.00	359.65	12,780.0	1,208.6	177.6	1,213.7	0.00	0.00	0.00
14,000.0	90.00	359.65	12,780.0	1,308.6	177.0	1,313.6	0.00	0.00	0.00
14,100.0	90.00	359.65	12,780.0	1,408.6	176.3	1,413.5	0.00	0.00	0.00
14,200.0	90.00	359.65	12,780.0	1,508.6	175.7	1,513.4	0.00	0.00	0.00
14,300.0	90.00	359.65	12,780.0	1,608.6	175.1	1,613.4	0.00	0.00	0.00
14,400.0	90.00	359.65	12,780.0	1,708.6	174.5	1,713.3	0.00	0.00	0.00
14,500.0	90.00	359.65	12,780.0	1,808.6	173.9	1,813.2	0.00	0.00	0.00
14,600.0	90.00	359.65	12,780.0	1,908.6	173.3	1,913.1	0.00	0.00	0.00
14,700.0	90.00	359.65	12,780.0	2,008.6	172.7	2,013.1	0.00	0.00	0.00
14,800.0	90.00	359.65	12,780.0	2,108.6	172.0	2,113.0	0.00	0.00	0.00
14,900.0	90.00	359.65	12,780.0	2,208.6	171.4	2,212.9	0.00	0.00	0.00
15,000.0	90.00	359.65	12,780.0	2,308.6	170.8	2,312.9	0.00	0.00	0.00
15,100.0	90.00	359.65	12,780.0	2,408.6	170.2	2,412.8	0.00	0.00	0.00
15,200.0	90.00	359.65	12,780.0	2,508.6	169.6	2,512.7	0.00	0.00	0.00
15,300.0	90.00	359.65	12,780.0	2,608.6	169.0	2,612.6	0.00	0.00	0.00
15,400.0	90.00	359.65	12,780.0	2,708.6	168.4	2,712.6	0.00	0.00	0.00
15,500.0	90.00	359.65	12,780.0	2,808.6	167.7	2,812.5	0.00	0.00	0.00
15,600.0	90.00	359.65	12,780.0	2,908.6	167.1	2,912.4	0.00	0.00	0.00
15,700.0	90.00	359.65	12,780.0	3,008.6	166.5	3,012.4	0.00	0.00	0.00
15,800.0	90.00	359.65	12,780.0	3,108.6	165.9	3,112.3	0.00	0.00	0.00
15,900.0	90.00	359.65	12,780.0	3,208.6	165.3	3,212.2	0.00	0.00	0.00
16,000.0	90.00	359.65	12,780.0	3,308.6	164.7	3,312.1	0.00	0.00	0.00
16,100.0	90.00	359.65	12,780.0	3,408.6	164.1	3,412.1	0.00	0.00	0.00
16,200.0	90.00	359.65	12,780.0	3,508.6	163.4	3,512.0	0.00	0.00	0.00
16,300.0	90.00	359.65	12,780.0	3,608.6	162.8	3,611.9	0.00	0.00	0.00
16,400.0	90.00	359.65	12,780.0	3,708.6	162.2	3,711.9	0.00	0.00	0.00
16,500.0	90.00	359.65	12,780.0	3,808.6	161.6	3,811.8	0.00	0.00	0.00
16,600.0	90.00	359.65	12,780.0	3,908.6	161.0	3,911.7	0.00	0.00	0.00
16,700.0	90.00	359.65	12,780.0	4,008.6	160.4	4,011.6	0.00	0.00	0.00
16,800.0	90.00	359.65	12,780.0	4,108.6	159.8	4,111.6	0.00	0.00	0.00
16,900.0	90.00	359.65	12,780.0	4,208.6	159.1	4,211.5	0.00	0.00	0.00
17,000.0	90.00	359.65	12,780.0	4,308.6	158.5	4,311.4	0.00	0.00	0.00
17,100.0	90.00	359.65	12,780.0	4,408.6	157.9	4,411.4	0.00	0.00	0.00
17,200.0	90.00	359.65	12,780.0	4,508.6	157.3	4,511.3	0.00	0.00	0.00
17,300.0	90.00	359.65	12,780.0	4,608.6	156.7	4,611.2	0.00	0.00	0.00
17,400.0	90.00	359.65	12,780.0	4,708.6	156.1	4,711.1	0.00	0.00	0.00
17,500.0	90.00	359.65	12,780.0	4,808.6	155.5	4,811.1	0.00	0.00	0.00
17,573.4	90.00	359.65	12,780.0	4,882.0	155.0	4,884.5	0.00	0.00	0.00
PBHL(Ruby 2 State Com #703H)									

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Site:	Ruby 2 State Com	**North Reference:**	Grid
Well:	#703H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #0.1		

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(Ruby 2 State Con - plan hits target center - Point	0.00	0.00	12,780.0	4,882.0	155.0	393,583.00	775,708.00	32° 4' 44.214 N	103° 26' 35.483 W
FTP(Ruby 2 State Com - plan misses target center by 40.2usft at 12866.3usft MD (12743.0 TVD, 179.8 N, 183.1 E) - Point	0.00	0.00	12,780.0	164.0	184.0	388,865.00	775,737.00	32° 3' 57.525 N	103° 26' 35.598 W