



Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com #701H

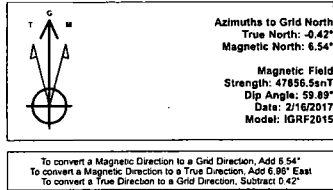
Plan #0.1

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

WELL DETAILS: #701H

Ground Level: 3331.00
KB = 25' @ 3356.00usft
Northing: 372741.00
Easting: 788311.00
Latitude: 32.02224139
Longitude: -103.53643286



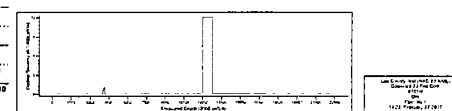
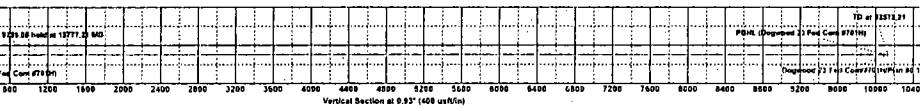
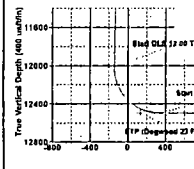
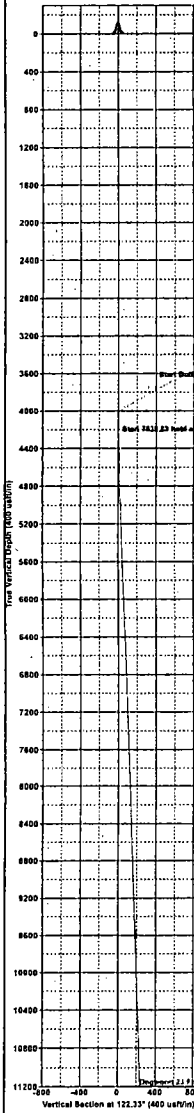
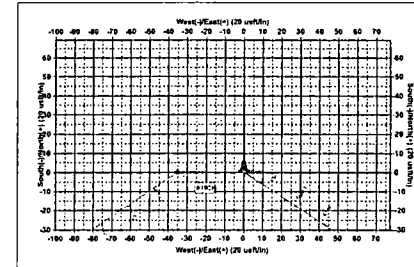
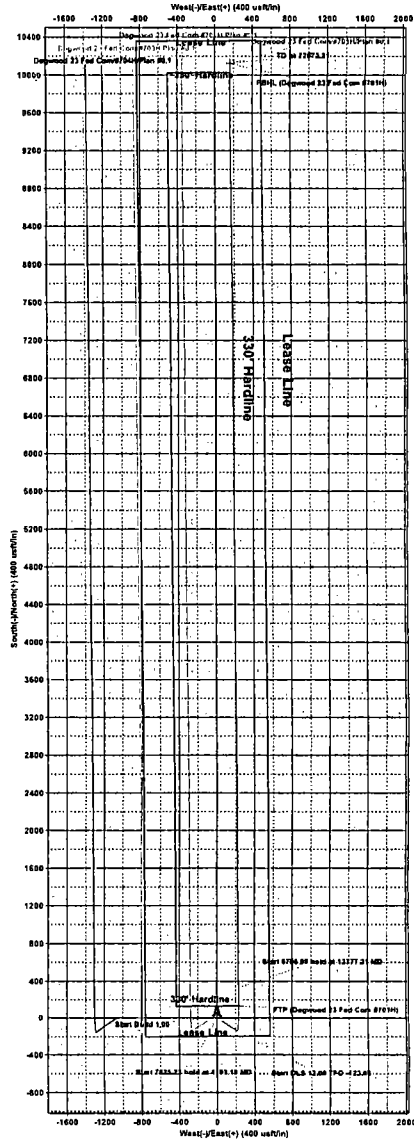
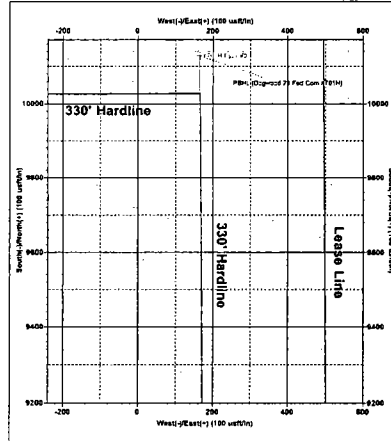
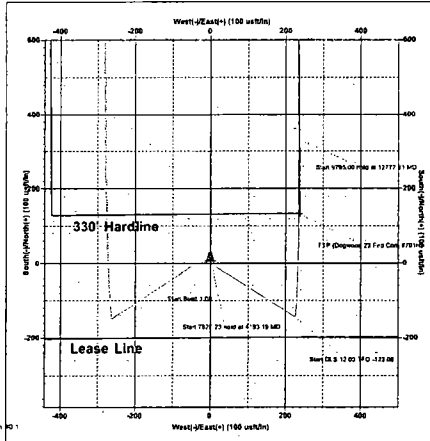
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4193.19	1.93	122.69	4193.16	-1.76	2.74	1.00	122.69	-1.71	
4	12018.42	1.93	122.69	12013.94	-144.22	224.77	0.00	0.00	-140.54	
5	12777.21	90.00	359.59	12500.00	333.25	235.09	12.00	-123.08	337.04	
6	22572.21	90.00	359.59	12500.00	10128.00	165.00	0.00	10129.34		PBHL (Dogwood 23 Fed Com #701H)

CASING DETAILS
No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Dogwood 23 Fed Com #701H)	12500.00	132.00	238.00	372873.00	788549.00
PBHL (Dogwood 23 Fed Com #701H)	12500.00	10128.00	165.00	382869.00	788476.00





EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Dogwood 23 Fed Com

#701H

OH

Plan: Plan #0.1

Standard Planning Report

27 February, 2017

HOBBS OCD

SEP 28 2017

RECEIVED



EOG Resources, Inc.
Planning Report

Database: EDM 5000.1 Single User Db
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3356.00usft
MD Reference: KB = 25' @ 3356.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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:	Dogwood 23 Fed Com			
Site Position:		Northing:	372,741.00 usft	Latitude: 32.02224139
From:	Map	Easting:	788,311.00 usft	Longitude: -103.53643286
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.42 °

Well:	#701H			
Well Position	+N/-S	0.00 usft	Northing:	372,741.00 usft
	+E/-W	0.00 usft	Easting:	788,311.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,331.00 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination	Dip Angle
	IGRF2015	2/16/2017	6.96	59.89
				Field Strength (nT) 47,856

Design	Plan #0.1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	0.93

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,193.19	1.93	122.69	4,193.16	-1.76	2.74	1.00	1.00	0.00	122.69	
12,018.43	1.93	122.69	12,013.94	-144.22	224.77	0.00	0.00	0.00	0.00	
12,777.21	90.00	359.59	12,500.00	333.25	235.09	12.00	11.61	-16.22	-123.08	
22,572.21	90.00	359.59	12,500.00	10,128.00	165.00	0.00	0.00	0.00	0.00	PBHL (Dogwood 23 F)



EOG Resources, Inc.

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Project: Lea County, NM (NAD 83 NME)
Site: Dogwood 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
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MD Reference: KB = 25' @ 3356.00usft
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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	1.00	122.69	4,100.00	-0.47	0.73	-0.46	1.00	1.00	0.00
4,193.19	1.93	122.69	4,193.16	-1.76	2.74	-1.71	1.00	1.00	0.00
4,200.00	1.93	122.69	4,199.96	-1.88	2.93	-1.83	0.00	0.00	0.00
4,300.00	1.93	122.69	4,299.90	-3.70	5.77	-3.61	0.00	0.00	0.00
4,400.00	1.93	122.69	4,399.85	-5.52	8.61	-5.38	0.00	0.00	0.00
4,500.00	1.93	122.69	4,499.79	-7.34	11.45	-7.16	0.00	0.00	0.00
4,600.00	1.93	122.69	4,599.73	-9.16	14.28	-8.93	0.00	0.00	0.00
4,700.00	1.93	122.69	4,699.68	-10.99	17.12	-10.70	0.00	0.00	0.00
4,800.00	1.93	122.69	4,799.62	-12.81	19.96	-12.48	0.00	0.00	0.00
4,900.00	1.93	122.69	4,899.56	-14.63	22.80	-14.25	0.00	0.00	0.00
5,000.00	1.93	122.69	4,999.50	-16.45	25.63	-16.03	0.00	0.00	0.00
5,100.00	1.93	122.69	5,099.45	-18.27	28.47	-17.80	0.00	0.00	0.00
5,200.00	1.93	122.69	5,199.39	-20.09	31.31	-19.58	0.00	0.00	0.00



EOG Resources, Inc.

Planning Report

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Site: Dogwood 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
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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)
5,300.00	1.93	122.69	5,299.33	-21.91	34.15	-21.35	0.00	0.00	0.00
5,400.00	1.93	122.69	5,399.28	-23.73	36.98	-23.12	0.00	0.00	0.00
5,500.00	1.93	122.69	5,499.22	-25.55	39.82	-24.90	0.00	0.00	0.00
5,600.00	1.93	122.69	5,599.16	-27.37	42.66	-26.67	0.00	0.00	0.00
5,700.00	1.93	122.69	5,699.11	-29.19	45.49	-28.45	0.00	0.00	0.00
5,800.00	1.93	122.69	5,799.05	-31.01	48.33	-30.22	0.00	0.00	0.00
5,900.00	1.93	122.69	5,898.99	-32.83	51.17	-31.99	0.00	0.00	0.00
6,000.00	1.93	122.69	5,998.94	-34.65	54.01	-33.77	0.00	0.00	0.00
6,100.00	1.93	122.69	6,098.88	-36.47	56.84	-35.54	0.00	0.00	0.00
6,200.00	1.93	122.69	6,198.82	-38.29	59.68	-37.32	0.00	0.00	0.00
6,300.00	1.93	122.69	6,298.77	-40.11	62.52	-39.09	0.00	0.00	0.00
6,400.00	1.93	122.69	6,398.71	-41.93	65.36	-40.86	0.00	0.00	0.00
6,500.00	1.93	122.69	6,498.65	-43.75	68.19	-42.64	0.00	0.00	0.00
6,600.00	1.93	122.69	6,598.60	-45.58	71.03	-44.41	0.00	0.00	0.00
6,700.00	1.93	122.69	6,698.54	-47.40	73.87	-46.19	0.00	0.00	0.00
6,800.00	1.93	122.69	6,798.48	-49.22	76.71	-47.96	0.00	0.00	0.00
6,900.00	1.93	122.69	6,898.42	-51.04	79.54	-49.73	0.00	0.00	0.00
7,000.00	1.93	122.69	6,998.37	-52.86	82.38	-51.51	0.00	0.00	0.00
7,100.00	1.93	122.69	7,098.31	-54.68	85.22	-53.28	0.00	0.00	0.00
7,200.00	1.93	122.69	7,198.25	-56.50	88.06	-55.06	0.00	0.00	0.00
7,300.00	1.93	122.69	7,298.20	-58.32	90.89	-56.83	0.00	0.00	0.00
7,400.00	1.93	122.69	7,398.14	-60.14	93.73	-58.60	0.00	0.00	0.00
7,500.00	1.93	122.69	7,498.08	-61.96	96.57	-60.38	0.00	0.00	0.00
7,600.00	1.93	122.69	7,598.03	-63.78	99.40	-62.15	0.00	0.00	0.00
7,700.00	1.93	122.69	7,697.97	-65.60	102.24	-63.93	0.00	0.00	0.00
7,800.00	1.93	122.69	7,797.91	-67.42	105.08	-65.70	0.00	0.00	0.00
7,900.00	1.93	122.69	7,897.86	-69.24	107.92	-67.48	0.00	0.00	0.00
8,000.00	1.93	122.69	7,997.80	-71.06	110.75	-69.25	0.00	0.00	0.00
8,100.00	1.93	122.69	8,097.74	-72.88	113.59	-71.02	0.00	0.00	0.00
8,200.00	1.93	122.69	8,197.69	-74.70	116.43	-72.80	0.00	0.00	0.00
8,300.00	1.93	122.69	8,297.63	-76.52	119.27	-74.57	0.00	0.00	0.00
8,400.00	1.93	122.69	8,397.57	-78.34	122.10	-76.35	0.00	0.00	0.00
8,500.00	1.93	122.69	8,497.52	-80.17	124.94	-78.12	0.00	0.00	0.00
8,600.00	1.93	122.69	8,597.46	-81.99	127.78	-79.89	0.00	0.00	0.00
8,700.00	1.93	122.69	8,697.40	-83.81	130.62	-81.67	0.00	0.00	0.00
8,800.00	1.93	122.69	8,797.35	-85.63	133.45	-83.44	0.00	0.00	0.00
8,900.00	1.93	122.69	8,897.29	-87.45	136.29	-85.22	0.00	0.00	0.00
9,000.00	1.93	122.69	8,997.23	-89.27	139.13	-86.99	0.00	0.00	0.00
9,100.00	1.93	122.69	9,097.17	-91.09	141.97	-88.76	0.00	0.00	0.00
9,200.00	1.93	122.69	9,197.12	-92.91	144.80	-90.54	0.00	0.00	0.00
9,300.00	1.93	122.69	9,297.06	-94.73	147.64	-92.31	0.00	0.00	0.00
9,400.00	1.93	122.69	9,397.00	-96.55	150.48	-94.09	0.00	0.00	0.00
9,500.00	1.93	122.69	9,496.95	-98.37	153.31	-95.86	0.00	0.00	0.00
9,600.00	1.93	122.69	9,596.89	-100.19	156.15	-97.63	0.00	0.00	0.00
9,700.00	1.93	122.69	9,696.83	-102.01	158.99	-99.41	0.00	0.00	0.00
9,800.00	1.93	122.69	9,796.78	-103.83	161.83	-101.18	0.00	0.00	0.00
9,900.00	1.93	122.69	9,896.72	-105.65	164.66	-102.96	0.00	0.00	0.00
10,000.00	1.93	122.69	9,996.66	-107.47	167.50	-104.73	0.00	0.00	0.00
10,100.00	1.93	122.69	10,096.61	-109.29	170.34	-106.50	0.00	0.00	0.00
10,200.00	1.93	122.69	10,196.55	-111.11	173.18	-108.28	0.00	0.00	0.00
10,300.00	1.93	122.69	10,296.49	-112.93	176.01	-110.05	0.00	0.00	0.00
10,400.00	1.93	122.69	10,396.44	-114.76	178.85	-111.83	0.00	0.00	0.00
10,500.00	1.93	122.69	10,496.38	-116.58	181.69	-113.60	0.00	0.00	0.00
10,600.00	1.93	122.69	10,596.32	-118.40	184.53	-115.37	0.00	0.00	0.00



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 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)
10,700.00	1.93	122.69	10,696.27	-120.22	187.36	-117.15	0.00	0.00	0.00
10,800.00	1.93	122.69	10,796.21	-122.04	190.20	-118.92	0.00	0.00	0.00
10,900.00	1.93	122.69	10,896.15	-123.86	193.04	-120.70	0.00	0.00	0.00
11,000.00	1.93	122.69	10,996.09	-125.68	195.88	-122.47	0.00	0.00	0.00
11,100.00	1.93	122.69	11,096.04	-127.50	198.71	-124.25	0.00	0.00	0.00
11,200.00	1.93	122.69	11,195.98	-129.32	201.55	-126.02	0.00	0.00	0.00
11,300.00	1.93	122.69	11,295.92	-131.14	204.39	-127.79	0.00	0.00	0.00
11,400.00	1.93	122.69	11,395.87	-132.96	207.22	-129.57	0.00	0.00	0.00
11,500.00	1.93	122.69	11,495.81	-134.78	210.06	-131.34	0.00	0.00	0.00
11,600.00	1.93	122.69	11,595.75	-136.60	212.90	-133.12	0.00	0.00	0.00
11,700.00	1.93	122.69	11,695.70	-138.42	215.74	-134.89	0.00	0.00	0.00
11,800.00	1.93	122.69	11,795.64	-140.24	218.57	-136.66	0.00	0.00	0.00
11,900.00	1.93	122.69	11,895.58	-142.06	221.41	-138.44	0.00	0.00	0.00
12,000.00	1.93	122.69	11,995.53	-143.88	224.25	-140.21	0.00	0.00	0.00
12,018.43	1.93	122.69	12,013.94	-144.22	224.77	-140.54	0.00	0.00	0.00
12,025.00	1.64	98.91	12,020.51	-144.29	224.96	-140.61	12.00	-4.43	-361.53
12,050.00	3.18	30.19	12,045.49	-143.75	225.66	-140.06	12.00	6.15	-274.88
12,075.00	5.96	15.30	12,070.41	-141.90	226.35	-138.19	12.00	11.12	-59.57
12,100.00	8.88	10.01	12,095.20	-138.75	227.03	-135.03	12.00	11.70	-21.17
12,125.00	11.84	7.33	12,119.79	-134.30	227.69	-130.57	12.00	11.85	-10.70
12,150.00	14.82	5.72	12,144.11	-128.57	228.34	-124.84	12.00	11.91	-6.45
12,175.00	17.81	4.64	12,168.11	-121.58	228.97	-117.83	12.00	11.94	-4.33
12,200.00	20.79	3.86	12,191.70	-113.34	229.57	-109.59	12.00	11.96	-3.12
12,225.00	23.79	3.27	12,214.83	-103.88	230.16	-100.11	12.00	11.97	-2.37
12,250.00	26.78	2.80	12,237.43	-93.22	230.72	-89.45	12.00	11.97	-1.86
12,275.00	29.77	2.42	12,259.44	-81.39	231.26	-77.61	12.00	11.98	-1.51
12,300.00	32.77	2.11	12,280.81	-68.42	231.77	-64.64	12.00	11.98	-1.26
12,325.00	35.77	1.84	12,301.47	-54.35	232.25	-50.56	12.00	11.98	-1.07
12,350.00	38.76	1.61	12,321.36	-39.23	232.71	-35.43	12.00	11.99	-0.93
12,375.00	41.76	1.40	12,340.44	-23.08	233.13	-19.28	12.00	11.99	-0.81
12,400.00	44.76	1.22	12,358.64	-5.95	233.52	-2.15	12.00	11.99	-0.72
12,425.00	47.76	1.06	12,375.93	12.11	233.88	15.91	12.00	11.99	-0.65
12,450.00	50.75	0.91	12,392.24	31.04	234.21	34.85	12.00	11.99	-0.59
12,475.00	53.75	0.78	12,407.54	50.80	234.50	54.62	12.00	11.99	-0.54
12,500.00	56.75	0.65	12,421.79	71.34	234.76	75.16	12.00	11.99	-0.50
12,525.00	59.75	0.53	12,434.95	92.60	234.97	96.41	12.00	11.99	-0.47
12,550.00	62.75	0.42	12,446.97	114.51	235.16	118.33	12.00	11.99	-0.44
12,575.00	65.74	0.32	12,457.83	137.02	235.30	140.84	12.00	11.99	-0.42
12,586.69	67.15	0.27	12,462.50	147.74	235.36	151.55	12.00	11.99	-0.40
FTP (Dogwood 23 Fed Com #701H)									
12,600.00	68.74	0.22	12,467.50	160.08	235.41	163.89	12.00	11.99	-0.39
12,625.00	71.74	0.12	12,475.95	183.60	235.48	187.41	12.00	11.99	-0.38
12,650.00	74.74	0.03	12,483.16	207.54	235.51	211.34	12.00	11.99	-0.37
12,675.00	77.74	359.94	12,489.11	231.82	235.51	235.62	12.00	11.99	-0.36
12,700.00	80.74	359.85	12,493.77	256.37	235.47	260.17	12.00	12.00	-0.35
12,725.00	83.74	359.77	12,497.15	281.14	235.38	284.94	12.00	12.00	-0.35
12,750.00	86.74	359.68	12,499.23	306.05	235.26	309.84	12.00	12.00	-0.34
12,777.21	90.00	359.59	12,500.00	333.25	235.09	337.04	12.00	12.00	-0.34
12,800.00	90.00	359.59	12,500.00	356.04	234.93	359.82	0.00	0.00	0.00
12,900.00	90.00	359.59	12,500.00	456.03	234.21	459.79	0.00	0.00	0.00
13,000.00	90.00	359.59	12,500.00	556.03	233.50	559.76	0.00	0.00	0.00
13,100.00	90.00	359.59	12,500.00	656.03	232.78	659.73	0.00	0.00	0.00
13,200.00	90.00	359.59	12,500.00	756.03	232.07	759.71	0.00	0.00	0.00



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 Site: Dogwood 23 Fed Com
 Well: #701H
 Wellbore: OH
 Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
 TVD Reference: KB = 25' @ 3356.00usft
 MD Reference: KB = 25' @ 3356.00usft
 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)
13,300.00	90.00	359.59	12,500.00	856.02	231.35	859.68	0.00	0.00	0.00
13,400.00	90.00	359.59	12,500.00	956.02	230.63	959.65	0.00	0.00	0.00
13,500.00	90.00	359.59	12,500.00	1,056.02	229.92	1,059.62	0.00	0.00	0.00
13,600.00	90.00	359.59	12,500.00	1,156.02	229.20	1,159.60	0.00	0.00	0.00
13,700.00	90.00	359.59	12,500.00	1,256.01	228.49	1,259.57	0.00	0.00	0.00
13,800.00	90.00	359.59	12,500.00	1,356.01	227.77	1,359.54	0.00	0.00	0.00
13,900.00	90.00	359.59	12,500.00	1,456.01	227.06	1,459.51	0.00	0.00	0.00
14,000.00	90.00	359.59	12,500.00	1,556.01	226.34	1,559.49	0.00	0.00	0.00
14,100.00	90.00	359.59	12,500.00	1,656.00	225.63	1,659.46	0.00	0.00	0.00
14,200.00	90.00	359.59	12,500.00	1,756.00	224.91	1,759.43	0.00	0.00	0.00
14,300.00	90.00	359.59	12,500.00	1,856.00	224.19	1,859.40	0.00	0.00	0.00
14,400.00	90.00	359.59	12,500.00	1,955.99	223.48	1,959.38	0.00	0.00	0.00
14,500.00	90.00	359.59	12,500.00	2,055.99	222.76	2,059.35	0.00	0.00	0.00
14,600.00	90.00	359.59	12,500.00	2,155.99	222.05	2,159.32	0.00	0.00	0.00
14,700.00	90.00	359.59	12,500.00	2,255.99	221.33	2,259.29	0.00	0.00	0.00
14,800.00	90.00	359.59	12,500.00	2,355.98	220.62	2,359.27	0.00	0.00	0.00
14,900.00	90.00	359.59	12,500.00	2,455.98	219.90	2,459.24	0.00	0.00	0.00
15,000.00	90.00	359.59	12,500.00	2,555.98	219.19	2,559.21	0.00	0.00	0.00
15,100.00	90.00	359.59	12,500.00	2,655.98	218.47	2,659.18	0.00	0.00	0.00
15,200.00	90.00	359.59	12,500.00	2,755.97	217.75	2,759.16	0.00	0.00	0.00
15,300.00	90.00	359.59	12,500.00	2,855.97	217.04	2,859.13	0.00	0.00	0.00
15,400.00	90.00	359.59	12,500.00	2,955.97	216.32	2,959.10	0.00	0.00	0.00
15,500.00	90.00	359.59	12,500.00	3,055.97	215.61	3,059.07	0.00	0.00	0.00
15,600.00	90.00	359.59	12,500.00	3,155.96	214.89	3,159.05	0.00	0.00	0.00
15,700.00	90.00	359.59	12,500.00	3,255.96	214.18	3,259.02	0.00	0.00	0.00
15,800.00	90.00	359.59	12,500.00	3,355.96	213.46	3,358.99	0.00	0.00	0.00
15,900.00	90.00	359.59	12,500.00	3,455.96	212.74	3,458.96	0.00	0.00	0.00
16,000.00	90.00	359.59	12,500.00	3,555.95	212.03	3,558.94	0.00	0.00	0.00
16,100.00	90.00	359.59	12,500.00	3,655.95	211.31	3,658.91	0.00	0.00	0.00
16,200.00	90.00	359.59	12,500.00	3,755.95	210.60	3,758.88	0.00	0.00	0.00
16,300.00	90.00	359.59	12,500.00	3,855.95	209.88	3,858.85	0.00	0.00	0.00
16,400.00	90.00	359.59	12,500.00	3,955.94	209.17	3,958.83	0.00	0.00	0.00
16,500.00	90.00	359.59	12,500.00	4,055.94	208.45	4,058.80	0.00	0.00	0.00
16,600.00	90.00	359.59	12,500.00	4,155.94	207.74	4,158.77	0.00	0.00	0.00
16,700.00	90.00	359.59	12,500.00	4,255.94	207.02	4,258.74	0.00	0.00	0.00
16,800.00	90.00	359.59	12,500.00	4,355.93	206.30	4,358.72	0.00	0.00	0.00
16,900.00	90.00	359.59	12,500.00	4,455.93	205.59	4,458.69	0.00	0.00	0.00
17,000.00	90.00	359.59	12,500.00	4,555.93	204.87	4,558.66	0.00	0.00	0.00
17,100.00	90.00	359.59	12,500.00	4,655.93	204.16	4,658.63	0.00	0.00	0.00
17,200.00	90.00	359.59	12,500.00	4,755.92	203.44	4,758.61	0.00	0.00	0.00
17,300.00	90.00	359.59	12,500.00	4,855.92	202.73	4,858.58	0.00	0.00	0.00
17,400.00	90.00	359.59	12,500.00	4,955.92	202.01	4,958.55	0.00	0.00	0.00
17,500.00	90.00	359.59	12,500.00	5,055.92	201.30	5,058.52	0.00	0.00	0.00
17,600.00	90.00	359.59	12,500.00	5,155.91	200.58	5,158.50	0.00	0.00	0.00
17,700.00	90.00	359.59	12,500.00	5,255.91	199.86	5,258.47	0.00	0.00	0.00
17,800.00	90.00	359.59	12,500.00	5,355.91	199.15	5,358.44	0.00	0.00	0.00
17,900.00	90.00	359.59	12,500.00	5,455.91	198.43	5,458.41	0.00	0.00	0.00
18,000.00	90.00	359.59	12,500.00	5,555.90	197.72	5,558.39	0.00	0.00	0.00
18,100.00	90.00	359.59	12,500.00	5,655.90	197.00	5,658.36	0.00	0.00	0.00
18,200.00	90.00	359.59	12,500.00	5,755.90	196.29	5,758.33	0.00	0.00	0.00
18,300.00	90.00	359.59	12,500.00	5,855.90	195.57	5,858.30	0.00	0.00	0.00
18,400.00	90.00	359.59	12,500.00	5,955.89	194.86	5,958.28	0.00	0.00	0.00
18,500.00	90.00	359.59	12,500.00	6,055.89	194.14	6,058.25	0.00	0.00	0.00
18,600.00	90.00	359.59	12,500.00	6,155.89	193.42	6,158.22	0.00	0.00	0.00



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)
18,700.00	90.00	359.59	12,500.00	6,255.88	192.71	6,258.19	0.00	0.00	0.00
18,800.00	90.00	359.59	12,500.00	6,355.88	191.99	6,358.17	0.00	0.00	0.00
18,900.00	90.00	359.59	12,500.00	6,455.88	191.28	6,458.14	0.00	0.00	0.00
19,000.00	90.00	359.59	12,500.00	6,555.88	190.56	6,558.11	0.00	0.00	0.00
19,100.00	90.00	359.59	12,500.00	6,655.87	189.85	6,658.08	0.00	0.00	0.00
19,200.00	90.00	359.59	12,500.00	6,755.87	189.13	6,758.06	0.00	0.00	0.00
19,300.00	90.00	359.59	12,500.00	6,855.87	188.42	6,858.03	0.00	0.00	0.00
19,400.00	90.00	359.59	12,500.00	6,955.87	187.70	6,958.00	0.00	0.00	0.00
19,500.00	90.00	359.59	12,500.00	7,055.86	186.98	7,057.97	0.00	0.00	0.00
19,600.00	90.00	359.59	12,500.00	7,155.86	186.27	7,157.95	0.00	0.00	0.00
19,700.00	90.00	359.59	12,500.00	7,255.86	185.55	7,257.92	0.00	0.00	0.00
19,800.00	90.00	359.59	12,500.00	7,355.86	184.84	7,357.89	0.00	0.00	0.00
19,900.00	90.00	359.59	12,500.00	7,455.85	184.12	7,457.86	0.00	0.00	0.00
20,000.00	90.00	359.59	12,500.00	7,555.85	183.41	7,557.84	0.00	0.00	0.00
20,100.00	90.00	359.59	12,500.00	7,655.85	182.69	7,657.81	0.00	0.00	0.00
20,200.00	90.00	359.59	12,500.00	7,755.85	181.98	7,757.78	0.00	0.00	0.00
20,300.00	90.00	359.59	12,500.00	7,855.84	181.26	7,857.75	0.00	0.00	0.00
20,400.00	90.00	359.59	12,500.00	7,955.84	180.54	7,957.73	0.00	0.00	0.00
20,500.00	90.00	359.59	12,500.00	8,055.84	179.83	8,057.70	0.00	0.00	0.00
20,600.00	90.00	359.59	12,500.00	8,155.84	179.11	8,157.67	0.00	0.00	0.00
20,700.00	90.00	359.59	12,500.00	8,255.83	178.40	8,257.64	0.00	0.00	0.00
20,800.00	90.00	359.59	12,500.00	8,355.83	177.68	8,357.62	0.00	0.00	0.00
20,900.00	90.00	359.59	12,500.00	8,455.83	176.97	8,457.59	0.00	0.00	0.00
21,000.00	90.00	359.59	12,500.00	8,555.83	176.25	8,557.56	0.00	0.00	0.00
21,100.00	90.00	359.59	12,500.00	8,655.82	175.53	8,657.53	0.00	0.00	0.00
21,200.00	90.00	359.59	12,500.00	8,755.82	174.82	8,757.51	0.00	0.00	0.00
21,300.00	90.00	359.59	12,500.00	8,855.82	174.10	8,857.48	0.00	0.00	0.00
21,400.00	90.00	359.59	12,500.00	8,955.82	173.39	8,957.45	0.00	0.00	0.00
21,500.00	90.00	359.59	12,500.00	9,055.81	172.67	9,057.42	0.00	0.00	0.00
21,600.00	90.00	359.59	12,500.00	9,155.81	171.96	9,157.40	0.00	0.00	0.00
21,700.00	90.00	359.59	12,500.00	9,255.81	171.24	9,257.37	0.00	0.00	0.00
21,800.00	90.00	359.59	12,500.00	9,355.81	170.53	9,357.34	0.00	0.00	0.00
21,900.00	90.00	359.59	12,500.00	9,455.80	169.81	9,457.31	0.00	0.00	0.00
22,000.00	90.00	359.59	12,500.00	9,555.80	169.09	9,557.29	0.00	0.00	0.00
22,100.00	90.00	359.59	12,500.00	9,655.80	168.38	9,657.26	0.00	0.00	0.00
22,200.00	90.00	359.59	12,500.00	9,755.80	167.66	9,757.23	0.00	0.00	0.00
22,300.00	90.00	359.59	12,500.00	9,855.79	166.95	9,857.20	0.00	0.00	0.00
22,400.00	90.00	359.59	12,500.00	9,955.79	166.23	9,957.18	0.00	0.00	0.00
22,500.00	90.00	359.59	12,500.00	10,055.79	165.52	10,057.15	0.00	0.00	0.00
22,572.21	90.00	359.59	12,500.00	10,128.00	165.00	10,129.34	0.00	0.00	0.00

PBHL (Dogwood 23 Fed Com #701H)



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Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
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Survey Calculation Method: Minimum Curvature

Design Targets

Target Name									
hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
PBHL (Dogwood 23 Fed	0.00	0.01	12,500.00	10,128.00	165.00	382,869.00	788,476.00	32.05007709	-103.53565917
- plan hits target center									
- Point									
FTP (Dogwood 23 Fed C	0.00	0.00	12,500.00	132.00	238.00	372,873.00	788,549.00	32.02259940	-103.53566183
- plan misses target center by 40.75usft at 12586.69usft MD (12462.50 TVD, 147.74 N, 235.36 E)									
- Point									