



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Getty 5 Fed Com

#504H

OH

Plan: Plan #0.2

Standard Planning Report

07 August, 2019

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Getty 5 Fed Com
Well: #504H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3468.0usft
MD Reference: KB = 25 @ 3468.0usft
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	Getty 5 Fed Com			
Site Position:		Northing:	420,163.00 usft	Latitude: 32° 9' 10.475 N
From: Map		Easting:	772,092.00 usft	Longitude: 103° 35' 15.736 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.40 °

Well	#504H			
Well Position	+N/-S	43.0 usft	Northing:	420,206.00 usft
	+E/-W	-1,210.0 usft	Easting:	770,882.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	
			Ground Level:	3,443.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	12/13/2018	6.80	59.97	47,740.60589670

Design	Plan #0.2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	359.42

Plan Survey Tool Program	Date 8/7/2019			
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(usft)	(usft)			
1	0.0	18,491.3 Plan #0.2 (OH)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
3,077.9	1.56	183.72	3,077.9	-1.1	-0.1	2.00	2.00	0.00	183.72	
10,371.8	1.56	183.72	10,369.1	-198.9	-12.9	0.00	0.00	0.00	0.00	
10,449.7	0.00	0.61	10,447.0	-200.0	-13.0	2.00	-2.00	0.00	180.00	KOP (Getty 5 FC #50-
11,192.8	89.17	359.54	10,924.4	270.5	-16.8	12.00	12.00	-0.15	359.54	
18,491.3	89.17	359.54	11,030.0	7,568.0	-76.0	0.00	0.00	0.00	0.00	PBHL (Getty 5 FC #51

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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)
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
3,077.9	1.56	183.72	3,077.9	-1.1	-0.1	-1.1	2.00	2.00	0.00
3,100.0	1.56	183.72	3,100.0	-1.7	-0.1	-1.7	0.00	0.00	0.00
3,200.0	1.56	183.72	3,199.9	-4.4	-0.3	-4.4	0.00	0.00	0.00
3,300.0	1.56	183.72	3,299.9	-7.1	-0.5	-7.1	0.00	0.00	0.00
3,400.0	1.56	183.72	3,399.9	-9.8	-0.6	-9.8	0.00	0.00	0.00
3,500.0	1.56	183.72	3,499.8	-12.5	-0.8	-12.5	0.00	0.00	0.00
3,600.0	1.56	183.72	3,599.8	-15.2	-1.0	-15.2	0.00	0.00	0.00
3,700.0	1.56	183.72	3,699.8	-17.9	-1.2	-17.9	0.00	0.00	0.00
3,800.0	1.56	183.72	3,799.7	-20.6	-1.3	-20.6	0.00	0.00	0.00
3,900.0	1.56	183.72	3,899.7	-23.4	-1.5	-23.3	0.00	0.00	0.00
4,000.0	1.56	183.72	3,999.6	-26.1	-1.7	-26.1	0.00	0.00	0.00
4,100.0	1.56	183.72	4,099.6	-28.8	-1.9	-28.8	0.00	0.00	0.00
4,200.0	1.56	183.72	4,199.6	-31.5	-2.0	-31.5	0.00	0.00	0.00
4,300.0	1.56	183.72	4,299.5	-34.2	-2.2	-34.2	0.00	0.00	0.00
4,400.0	1.56	183.72	4,399.5	-36.9	-2.4	-36.9	0.00	0.00	0.00
4,500.0	1.56	183.72	4,499.5	-39.6	-2.6	-39.6	0.00	0.00	0.00
4,600.0	1.56	183.72	4,599.4	-42.4	-2.8	-42.3	0.00	0.00	0.00
4,700.0	1.56	183.72	4,699.4	-45.1	-2.9	-45.0	0.00	0.00	0.00
4,800.0	1.56	183.72	4,799.4	-47.8	-3.1	-47.7	0.00	0.00	0.00
4,900.0	1.56	183.72	4,899.3	-50.5	-3.3	-50.5	0.00	0.00	0.00
5,000.0	1.56	183.72	4,999.3	-53.2	-3.5	-53.2	0.00	0.00	0.00
5,100.0	1.56	183.72	5,099.2	-55.9	-3.6	-55.9	0.00	0.00	0.00
5,200.0	1.56	183.72	5,199.2	-58.6	-3.8	-58.6	0.00	0.00	0.00

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Local Co-ordinate Reference: Well #504H
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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)
5,300.0	1.56	183.72	5,299.2	-61.3	-4.0	-61.3	0.00	0.00	0.00
5,400.0	1.56	183.72	5,399.1	-64.1	-4.2	-64.0	0.00	0.00	0.00
5,500.0	1.56	183.72	5,499.1	-66.8	-4.3	-66.7	0.00	0.00	0.00
5,600.0	1.56	183.72	5,599.1	-69.5	-4.5	-69.4	0.00	0.00	0.00
5,700.0	1.56	183.72	5,699.0	-72.2	-4.7	-72.1	0.00	0.00	0.00
5,800.0	1.56	183.72	5,799.0	-74.9	-4.9	-74.9	0.00	0.00	0.00
5,900.0	1.56	183.72	5,898.9	-77.6	-5.0	-77.6	0.00	0.00	0.00
6,000.0	1.56	183.72	5,998.9	-80.3	-5.2	-80.3	0.00	0.00	0.00
6,100.0	1.56	183.72	6,098.9	-83.0	-5.4	-83.0	0.00	0.00	0.00
6,200.0	1.56	183.72	6,198.8	-85.8	-5.6	-85.7	0.00	0.00	0.00
6,300.0	1.56	183.72	6,298.8	-88.5	-5.8	-88.4	0.00	0.00	0.00
6,400.0	1.56	183.72	6,398.8	-91.2	-5.9	-91.1	0.00	0.00	0.00
6,500.0	1.56	183.72	6,498.7	-93.9	-6.1	-93.8	0.00	0.00	0.00
6,600.0	1.56	183.72	6,598.7	-96.6	-6.3	-96.5	0.00	0.00	0.00
6,700.0	1.56	183.72	6,698.7	-99.3	-6.5	-99.3	0.00	0.00	0.00
6,800.0	1.56	183.72	6,798.6	-102.0	-6.6	-102.0	0.00	0.00	0.00
6,900.0	1.56	183.72	6,898.6	-104.8	-6.8	-104.7	0.00	0.00	0.00
7,000.0	1.56	183.72	6,998.5	-107.5	-7.0	-107.4	0.00	0.00	0.00
7,100.0	1.56	183.72	7,098.5	-110.2	-7.2	-110.1	0.00	0.00	0.00
7,200.0	1.56	183.72	7,198.5	-112.9	-7.3	-112.8	0.00	0.00	0.00
7,300.0	1.56	183.72	7,298.4	-115.6	-7.5	-115.5	0.00	0.00	0.00
7,400.0	1.56	183.72	7,398.4	-118.3	-7.7	-118.2	0.00	0.00	0.00
7,500.0	1.56	183.72	7,498.4	-121.0	-7.9	-120.9	0.00	0.00	0.00
7,600.0	1.56	183.72	7,598.3	-123.7	-8.0	-123.7	0.00	0.00	0.00
7,700.0	1.56	183.72	7,698.3	-126.5	-8.2	-126.4	0.00	0.00	0.00
7,800.0	1.56	183.72	7,798.2	-129.2	-8.4	-129.1	0.00	0.00	0.00
7,900.0	1.56	183.72	7,898.2	-131.9	-8.6	-131.8	0.00	0.00	0.00
8,000.0	1.56	183.72	7,998.2	-134.6	-8.7	-134.5	0.00	0.00	0.00
8,100.0	1.56	183.72	8,098.1	-137.3	-8.9	-137.2	0.00	0.00	0.00
8,200.0	1.56	183.72	8,198.1	-140.0	-9.1	-139.9	0.00	0.00	0.00
8,300.0	1.56	183.72	8,298.1	-142.7	-9.3	-142.6	0.00	0.00	0.00
8,400.0	1.56	183.72	8,398.0	-145.4	-9.5	-145.3	0.00	0.00	0.00
8,500.0	1.56	183.72	8,498.0	-148.2	-9.6	-148.1	0.00	0.00	0.00
8,600.0	1.56	183.72	8,597.9	-150.9	-9.8	-150.8	0.00	0.00	0.00
8,700.0	1.56	183.72	8,697.9	-153.6	-10.0	-153.5	0.00	0.00	0.00
8,800.0	1.56	183.72	8,797.9	-156.3	-10.2	-156.2	0.00	0.00	0.00
8,900.0	1.56	183.72	8,897.8	-159.0	-10.3	-158.9	0.00	0.00	0.00
9,000.0	1.56	183.72	8,997.8	-161.7	-10.5	-161.6	0.00	0.00	0.00
9,100.0	1.56	183.72	9,097.8	-164.4	-10.7	-164.3	0.00	0.00	0.00
9,200.0	1.56	183.72	9,197.7	-167.2	-10.9	-167.0	0.00	0.00	0.00
9,300.0	1.56	183.72	9,297.7	-169.9	-11.0	-169.7	0.00	0.00	0.00
9,400.0	1.56	183.72	9,397.7	-172.6	-11.2	-172.5	0.00	0.00	0.00
9,500.0	1.56	183.72	9,497.6	-175.3	-11.4	-175.2	0.00	0.00	0.00
9,600.0	1.56	183.72	9,597.6	-178.0	-11.6	-177.9	0.00	0.00	0.00
9,700.0	1.56	183.72	9,697.5	-180.7	-11.7	-180.6	0.00	0.00	0.00
9,800.0	1.56	183.72	9,797.5	-183.4	-11.9	-183.3	0.00	0.00	0.00
9,900.0	1.56	183.72	9,897.5	-186.1	-12.1	-186.0	0.00	0.00	0.00
10,000.0	1.56	183.72	9,997.4	-188.9	-12.3	-188.7	0.00	0.00	0.00
10,100.0	1.56	183.72	10,097.4	-191.6	-12.5	-191.4	0.00	0.00	0.00
10,200.0	1.56	183.72	10,197.4	-194.3	-12.6	-194.1	0.00	0.00	0.00
10,300.0	1.56	183.72	10,297.3	-197.0	-12.8	-196.9	0.00	0.00	0.00
10,371.8	1.56	183.72	10,369.1	-198.9	-12.9	-198.8	0.00	0.00	0.00
10,400.0	0.99	183.72	10,397.3	-199.6	-13.0	-199.4	2.00	-2.00	0.00
10,449.7	0.00	0.61	10,447.0	-200.0	-13.0	-199.9	2.00	-2.00	0.00

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KOP (Getty 5 FC #504H)									
10,475.0	3.03	359.54	10,472.3	-199.3	-13.0	-199.2	12.00	12.00	0.00
10,500.0	6.03	359.54	10,497.2	-197.4	-13.0	-197.2	12.00	12.00	0.00
10,525.0	9.03	359.54	10,522.0	-194.1	-13.0	-193.9	12.00	12.00	0.00
10,550.0	12.03	359.54	10,546.5	-189.5	-13.1	-189.4	12.00	12.00	0.00
10,575.0	15.03	359.54	10,570.9	-183.7	-13.1	-183.5	12.00	12.00	0.00
10,600.0	18.03	359.54	10,594.8	-176.5	-13.2	-176.4	12.00	12.00	0.00
10,625.0	21.03	359.54	10,618.4	-168.2	-13.3	-168.0	12.00	12.00	0.00
10,650.0	24.03	359.54	10,641.5	-158.6	-13.3	-158.5	12.00	12.00	0.00
10,675.0	27.03	359.54	10,664.0	-147.8	-13.4	-147.7	12.00	12.00	0.00
10,700.0	30.03	359.54	10,686.0	-135.9	-13.5	-135.7	12.00	12.00	0.00
10,725.0	33.03	359.54	10,707.3	-122.8	-13.6	-122.7	12.00	12.00	0.00
10,750.0	36.03	359.54	10,727.9	-108.6	-13.7	-108.5	12.00	12.00	0.00
10,775.0	39.03	359.54	10,747.7	-93.4	-13.9	-93.3	12.00	12.00	0.00
10,800.0	42.03	359.54	10,766.7	-77.2	-14.0	-77.0	12.00	12.00	0.00
10,825.0	45.03	359.54	10,784.8	-60.0	-14.1	-59.8	12.00	12.00	0.00
10,850.0	48.03	359.54	10,802.0	-41.8	-14.3	-41.7	12.00	12.00	0.00
10,875.0	51.03	359.54	10,818.2	-22.8	-14.4	-22.7	12.00	12.00	0.00
10,898.8	53.65	359.54	10,831.5	-5.6	-14.6	-5.4	12.00	12.00	0.00
FTP (Getty 5 FC #504H)									
10,900.0	54.03	359.54	10,833.4	-3.0	-14.6	-2.8	12.00	12.00	0.00
10,925.0	57.03	359.54	10,847.6	17.7	-14.8	17.8	12.00	12.00	0.00
10,950.0	60.03	359.54	10,860.6	39.0	-14.9	39.1	12.00	12.00	0.00
10,975.0	63.03	359.54	10,872.6	60.9	-15.1	61.1	12.00	12.00	0.00
11,000.0	66.03	359.54	10,883.3	83.5	-15.3	83.7	12.00	12.00	0.00
11,025.0	69.03	359.54	10,892.9	106.6	-15.5	106.8	12.00	12.00	0.00
11,050.0	72.03	359.54	10,901.2	130.2	-15.7	130.3	12.00	12.00	0.00
11,075.0	75.03	359.54	10,908.3	154.2	-15.9	154.3	12.00	12.00	0.00
11,100.0	78.03	359.54	10,914.1	178.5	-16.1	178.6	12.00	12.00	0.00
11,125.0	81.03	359.54	10,918.6	203.0	-16.3	203.2	12.00	12.00	0.00
11,150.0	84.03	359.54	10,921.9	227.8	-16.5	228.0	12.00	12.00	0.00
11,175.0	87.03	359.54	10,923.8	252.7	-16.7	252.9	12.00	12.00	0.00
11,192.8	89.17	359.54	10,924.4	270.5	-16.8	270.7	12.00	12.00	0.00
11,200.0	89.17	359.54	10,924.5	277.7	-16.9	277.9	0.00	0.00	0.00
11,300.0	89.17	359.54	10,926.0	377.7	-17.7	377.9	0.00	0.00	0.00
11,400.0	89.17	359.54	10,927.4	477.7	-18.5	477.9	0.00	0.00	0.00
11,500.0	89.17	359.54	10,928.9	577.7	-19.3	577.9	0.00	0.00	0.00
11,600.0	89.17	359.54	10,930.3	677.7	-20.1	677.8	0.00	0.00	0.00
11,700.0	89.17	359.54	10,931.8	777.7	-20.9	777.8	0.00	0.00	0.00
11,800.0	89.17	359.54	10,933.2	877.7	-21.7	877.8	0.00	0.00	0.00
11,900.0	89.17	359.54	10,934.6	977.6	-22.6	977.8	0.00	0.00	0.00
12,000.0	89.17	359.54	10,936.1	1,077.6	-23.4	1,077.8	0.00	0.00	0.00
12,100.0	89.17	359.54	10,937.5	1,177.6	-24.2	1,177.8	0.00	0.00	0.00
12,200.0	89.17	359.54	10,939.0	1,277.6	-25.0	1,277.8	0.00	0.00	0.00
12,300.0	89.17	359.54	10,940.4	1,377.6	-25.8	1,377.8	0.00	0.00	0.00
12,400.0	89.17	359.54	10,941.9	1,477.6	-26.6	1,477.8	0.00	0.00	0.00
12,500.0	89.17	359.54	10,943.3	1,577.6	-27.4	1,577.8	0.00	0.00	0.00
12,600.0	89.17	359.54	10,944.8	1,677.5	-28.2	1,677.7	0.00	0.00	0.00
12,700.0	89.17	359.54	10,946.2	1,777.5	-29.0	1,777.7	0.00	0.00	0.00
12,800.0	89.17	359.54	10,947.7	1,877.5	-29.8	1,877.7	0.00	0.00	0.00
12,900.0	89.17	359.54	10,949.1	1,977.5	-30.7	1,977.7	0.00	0.00	0.00
13,000.0	89.17	359.54	10,950.6	2,077.5	-31.5	2,077.7	0.00	0.00	0.00
13,100.0	89.17	359.54	10,952.0	2,177.5	-32.3	2,177.7	0.00	0.00	0.00
13,200.0	89.17	359.54	10,953.5	2,277.5	-33.1	2,277.7	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Getty 5 Fed Com
Well: #504H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3468.0usft
MD Reference: KB = 25 @ 3468.0usft
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)
13,300.0	89.17	359.54	10,954.9	2,377.4	-33.9	2,377.7	0.00	0.00	0.00
13,400.0	89.17	359.54	10,956.3	2,477.4	-34.7	2,477.7	0.00	0.00	0.00
13,497.4	89.17	359.54	10,957.8	2,574.9	-35.5	2,575.1	0.00	0.00	0.00
TGT 1 (Getty 5 FC #504H)									
13,500.0	89.17	359.54	10,957.8	2,577.4	-35.5	2,577.6	0.00	0.00	0.00
13,600.0	89.17	359.54	10,959.2	2,677.4	-36.3	2,677.6	0.00	0.00	0.00
13,700.0	89.17	359.54	10,960.7	2,777.4	-37.1	2,777.6	0.00	0.00	0.00
13,800.0	89.17	359.54	10,962.1	2,877.4	-38.0	2,877.6	0.00	0.00	0.00
13,900.0	89.17	359.54	10,963.6	2,977.4	-38.8	2,977.6	0.00	0.00	0.00
14,000.0	89.17	359.54	10,965.0	3,077.3	-39.6	3,077.6	0.00	0.00	0.00
14,100.0	89.17	359.54	10,966.5	3,177.3	-40.4	3,177.6	0.00	0.00	0.00
14,200.0	89.17	359.54	10,967.9	3,277.3	-41.2	3,277.6	0.00	0.00	0.00
14,300.0	89.17	359.54	10,969.4	3,377.3	-42.0	3,377.6	0.00	0.00	0.00
14,400.0	89.17	359.54	10,970.8	3,477.3	-42.8	3,477.5	0.00	0.00	0.00
14,500.0	89.17	359.54	10,972.3	3,577.3	-43.6	3,577.5	0.00	0.00	0.00
14,600.0	89.17	359.54	10,973.7	3,677.3	-44.4	3,677.5	0.00	0.00	0.00
14,700.0	89.17	359.54	10,975.2	3,777.3	-45.3	3,777.5	0.00	0.00	0.00
14,800.0	89.17	359.54	10,976.6	3,877.2	-46.1	3,877.5	0.00	0.00	0.00
14,900.0	89.17	359.54	10,978.0	3,977.2	-46.9	3,977.5	0.00	0.00	0.00
15,000.0	89.17	359.54	10,979.5	4,077.2	-47.7	4,077.5	0.00	0.00	0.00
15,100.0	89.17	359.54	10,980.9	4,177.2	-48.5	4,177.5	0.00	0.00	0.00
15,200.0	89.17	359.54	10,982.4	4,277.2	-49.3	4,277.5	0.00	0.00	0.00
15,300.0	89.17	359.54	10,983.8	4,377.2	-50.1	4,377.5	0.00	0.00	0.00
15,400.0	89.17	359.54	10,985.3	4,477.2	-50.9	4,477.4	0.00	0.00	0.00
15,500.0	89.17	359.54	10,986.7	4,577.1	-51.7	4,577.4	0.00	0.00	0.00
15,600.0	89.17	359.54	10,988.2	4,677.1	-52.6	4,677.4	0.00	0.00	0.00
15,700.0	89.17	359.54	10,989.6	4,777.1	-53.4	4,777.4	0.00	0.00	0.00
15,800.0	89.17	359.54	10,991.1	4,877.1	-54.2	4,877.4	0.00	0.00	0.00
15,900.0	89.17	359.54	10,992.5	4,977.1	-55.0	4,977.4	0.00	0.00	0.00
15,902.2	89.17	359.54	10,992.5	4,979.3	-55.0	4,979.6	0.00	0.00	0.00
TGT 2 (Getty 5 FC #504H)									
16,000.0	89.17	359.54	10,994.0	5,077.1	-55.8	5,077.4	0.00	0.00	0.00
16,100.0	89.17	359.54	10,995.4	5,177.1	-56.6	5,177.4	0.00	0.00	0.00
16,200.0	89.17	359.54	10,996.9	5,277.0	-57.4	5,277.4	0.00	0.00	0.00
16,300.0	89.17	359.54	10,998.3	5,377.0	-58.2	5,377.3	0.00	0.00	0.00
16,400.0	89.17	359.54	10,999.7	5,477.0	-59.0	5,477.3	0.00	0.00	0.00
16,500.0	89.17	359.54	11,001.2	5,577.0	-59.9	5,577.3	0.00	0.00	0.00
16,600.0	89.17	359.54	11,002.6	5,677.0	-60.7	5,677.3	0.00	0.00	0.00
16,700.0	89.17	359.54	11,004.1	5,777.0	-61.5	5,777.3	0.00	0.00	0.00
16,800.0	89.17	359.54	11,005.5	5,877.0	-62.3	5,877.3	0.00	0.00	0.00
16,900.0	89.17	359.54	11,007.0	5,976.9	-63.1	5,977.3	0.00	0.00	0.00
17,000.0	89.17	359.54	11,008.4	6,076.9	-63.9	6,077.3	0.00	0.00	0.00
17,100.0	89.17	359.54	11,009.9	6,176.9	-64.7	6,177.3	0.00	0.00	0.00
17,200.0	89.17	359.54	11,011.3	6,276.9	-65.5	6,277.2	0.00	0.00	0.00
17,300.0	89.17	359.54	11,012.8	6,376.9	-66.3	6,377.2	0.00	0.00	0.00
17,400.0	89.17	359.54	11,014.2	6,476.9	-67.2	6,477.2	0.00	0.00	0.00
17,500.0	89.17	359.54	11,015.7	6,576.9	-68.0	6,577.2	0.00	0.00	0.00
17,600.0	89.17	359.54	11,017.1	6,676.9	-68.8	6,677.2	0.00	0.00	0.00
17,700.0	89.17	359.54	11,018.6	6,776.8	-69.6	6,777.2	0.00	0.00	0.00
17,800.0	89.17	359.54	11,020.0	6,876.8	-70.4	6,877.2	0.00	0.00	0.00
17,900.0	89.17	359.54	11,021.4	6,976.8	-71.2	6,977.2	0.00	0.00	0.00
18,000.0	89.17	359.54	11,022.9	7,076.8	-72.0	7,077.2	0.00	0.00	0.00
18,100.0	89.17	359.54	11,024.3	7,176.8	-72.8	7,177.2	0.00	0.00	0.00

Database: EDM 5000.14
Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Getty 5 Fed Com
Well: #504H
Wellbore: OH
Design: Plan #0.2

Local Co-ordinate Reference: Well #504H
TVD Reference: KB = 25 @ 3468.0usft
MD Reference: KB = 25 @ 3468.0usft
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)
18,200.0	89.17	359.54	11,025.8	7,276.8	-73.6	7,277.1	0.00	0.00	0.00
18,300.0	89.17	359.54	11,027.2	7,376.8	-74.4	7,377.1	0.00	0.00	0.00
18,400.0	89.17	359.54	11,028.7	7,476.7	-75.3	7,477.1	0.00	0.00	0.00
18,491.3	89.17	359.54	11,030.0	7,568.0	-76.0	7,568.4	0.00	0.00	0.00

PBHL (Getty 5 FC #504H)

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
KOP (Getty 5 FC #504H - plan hits target center - Rectangle (sides W80.0 H80.0 D0.0))	0.00	359.56	10,447.0	-200.0	-13.0	420,006.00	770,869.00	32° 9' 9.005 N	103° 35' 29.974 W
FTP (Getty 5 FC #504H) - plan misses target center by 237.4usft at 10896.8usft MD (10831.5 TVD, -5.6 N, -14.6 E) - Point	0.00	0.00	11,020.0	-150.0	-13.0	420,056.00	770,869.00	32° 9' 9.500 N	103° 35' 29.970 W
PBHL (Getty 5 FC #504H) - plan hits target center - Rectangle (sides W60.0 H0.0 D7,702.0)	89.92	359.56	11,030.0	7,568.0	-76.0	427,774.00	770,806.00	32° 10' 25.877 N	103° 35' 30.084 W



Lea County, NM (NAD 83 NME)

Getty 5 Fed Com #504H

Plan #0.2

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

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

WELL DETAILS: #504H

KB = 26 @ 3488.00ft 3443.0
Northing 420206.00 Easting 770882.00 Latitude 32° 9' 10.984 N Longitude 103° 35' 29.807 W

SECTION DETAILS

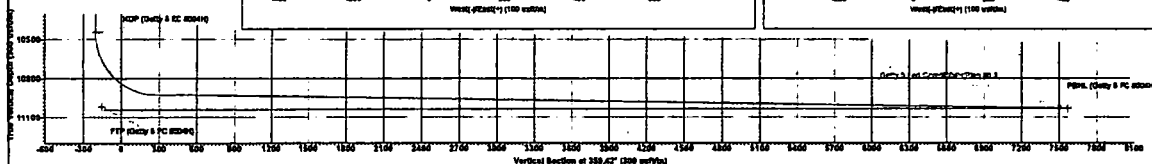
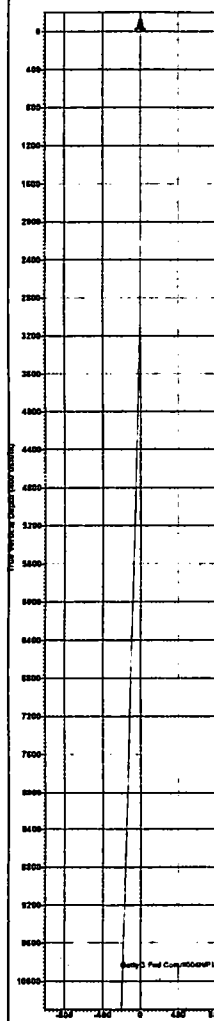
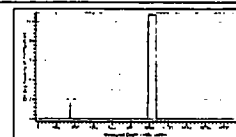
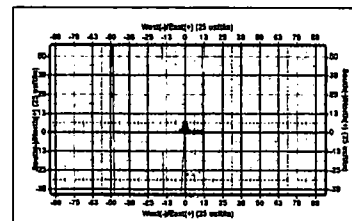
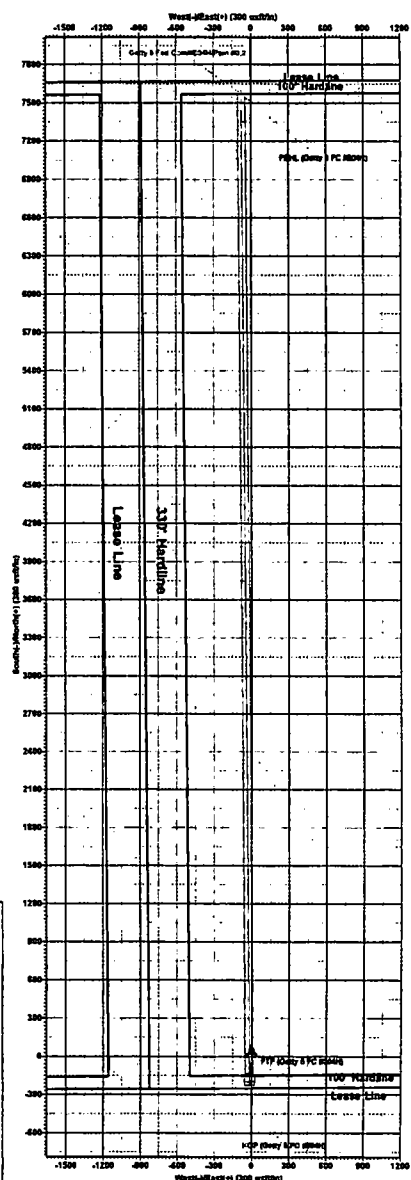
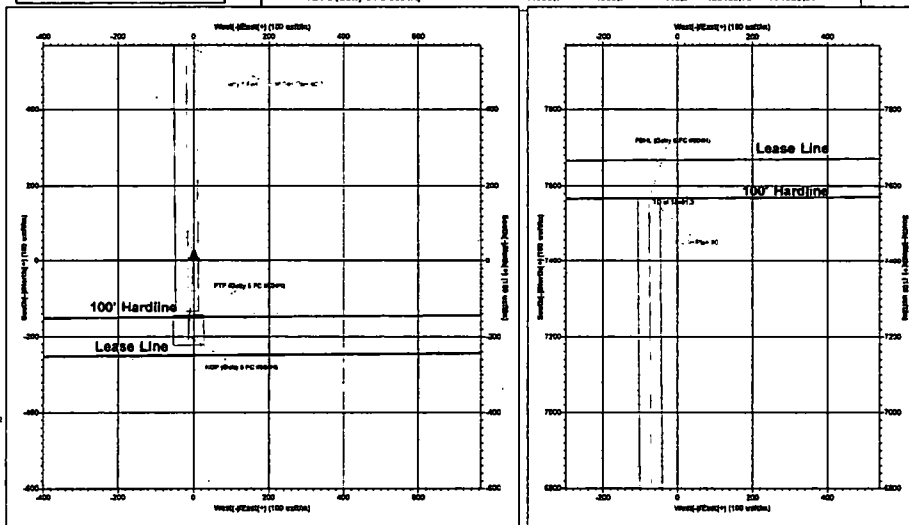
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3000.0	0.00	0.00	3000.0	0.0	0.0	0.00	0.00	0.0	
3	3077.9	1.56	183.72	3077.9	-1.1	-0.1	2.00	183.72	-1.1	
4	10371.8	1.56	183.72	10369.1	-198.9	-12.9	0.00	0.00	-198.9	
5	10449.7	0.00	0.81	10447.0	-200.0	-13.0	2.00	180.00	-199.9	KDP (Getty 5 FC #504H)
6	11162.8	89.17	359.54	10824.4	270.5	-18.8	12.00	359.54	270.7	
7	18491.3	89.17	359.54	11030.0	7588.0	-78.0	0.00	0.00	7588.4	PBHL (Getty 5 FC #504H)

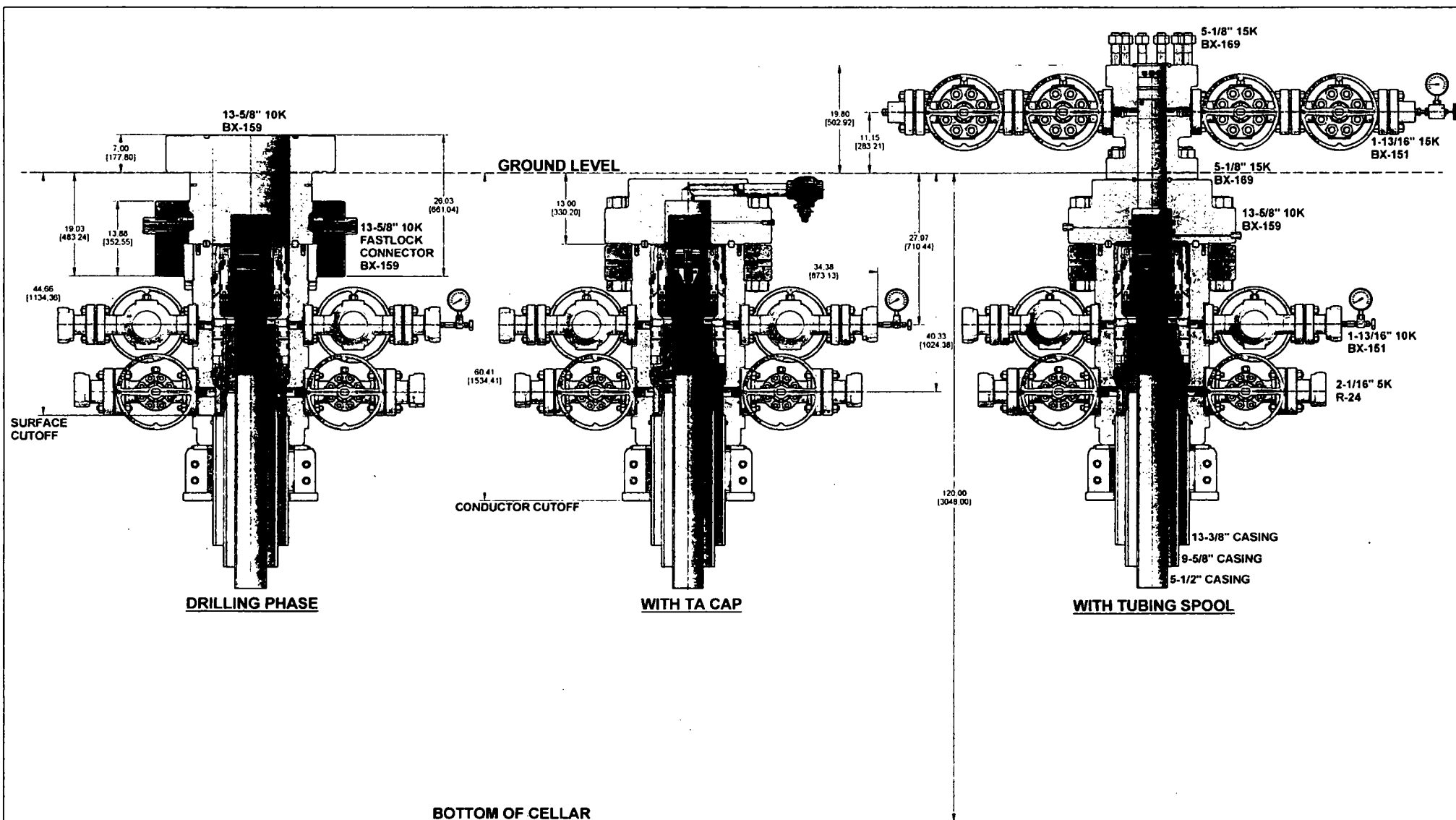
CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KDP (Getty 5 FC #504H)	19447.9	-299.9	-13.0	420096.00	770889.00
PBHL (Getty 5 FC #504H)	11030.0	7588.0	-78.0	427774.00	770886.00
FTT (Getty 5 FC #504H)	11029.9	-150.0	-13.0	420058.00	770889.00
TGT 1 (Getty 5 FC #504H)	11028.9	2877.9	484.8	427783.80	771346.80
TGT 2 (Getty 5 FC #504H)	11038.9	4597.7	484.8	428168.70	771328.81





		CONFIDENTIAL	
DETERMINED BY DIMENSIONS (DIMENSIONAL LIMITS) INCHES (MILLIMETER) UNLESS OTHERWISE SPECIFIED		DO NOT SCALE DESIGNED BY: KEN REED CHECKED BY: PA APPROVED BY: [Signature] DATE: 6 Nov. 18	
TYPED ANGLE (DIMENSIONAL LIMITS) INCHES (MILLIMETER) UNLESS OTHERWISE SPECIFIED		SURFACE SYSTEMS LOG RESOURCES INC. 13-5/8" 10K MN-DS WELLHEAD 13-3/8" X 9-5/8" X 5-1/2" SD-052491-19-07	