

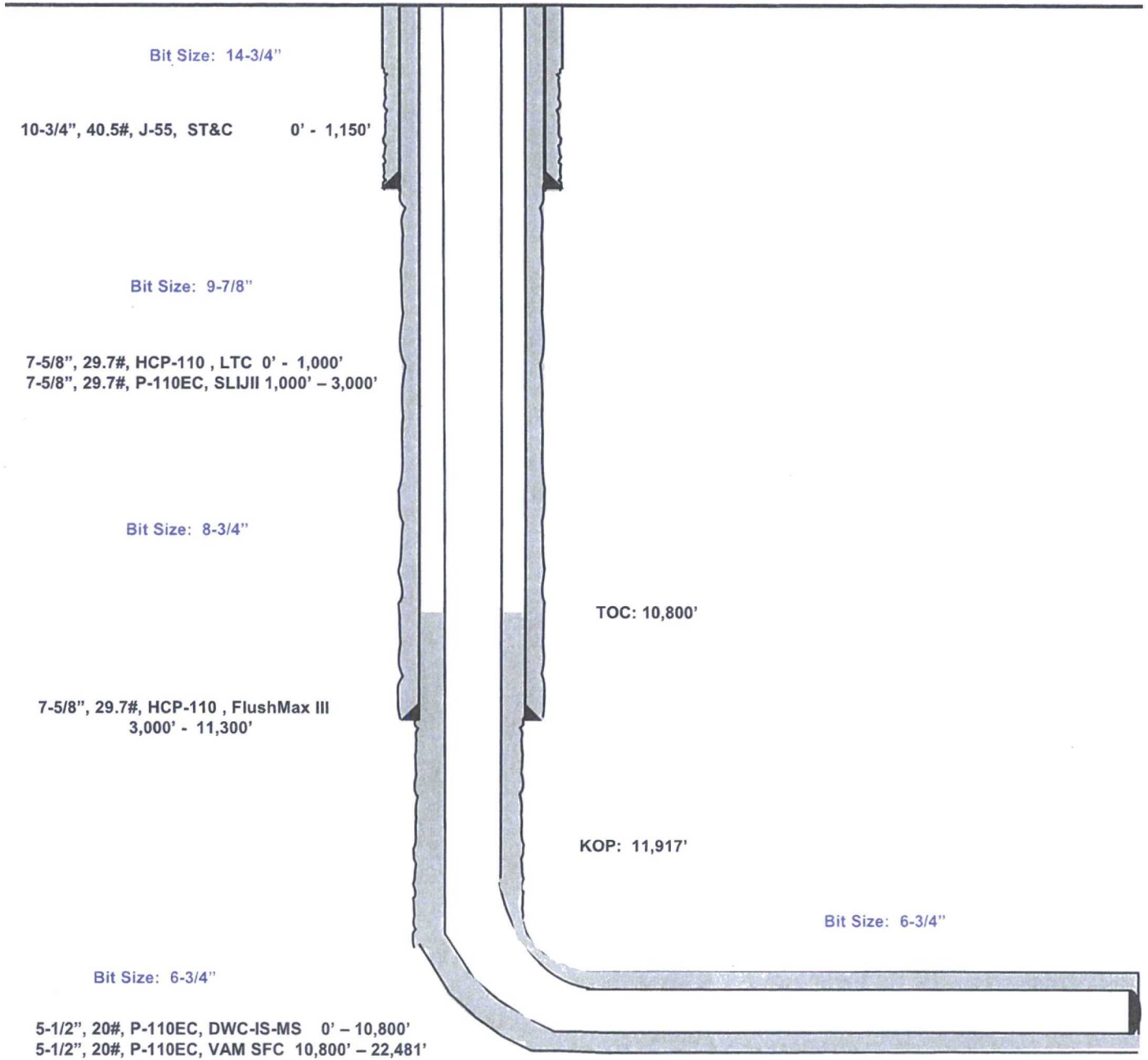
Caballo 23 Fed Com #704H

Lea County, New Mexico  
Proposed Wellbore

300' FSL  
1790' FWL  
Section 23  
T-25-S, R-33-E

API: 30-025-\*\*\*\*\*

KB: 3,367'  
GL: 3,342'



Lateral: 22,481' MD, 12,402' TVD  
Upper Most Perf:  
330' FSL & 2061' FWL Sec. 23  
Lower Most Perf:  
330' FNL & 2061' FWL Sec. 14  
BH Location: 230' FNL & 2061' FWL  
Section 14  
T-25-S, R-33-E



## **EOG Resources - Midland**

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#704H

OH

Plan: Plan #0.1

## **Standard Planning Report**

13 February, 2017

**HOBBS OCD**

JUN 26 2017

**RECEIVED**



Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Caballo 23 Fed Com  
 Well: #704H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H  
 TVD Reference: KB = 25' @ 3367.00usft  
 MD Reference: KB = 25' @ 3367.00usft  
 North Reference: Grid  
 Survey Calculation Method: Minimum Curvature

<b>Project</b>	Lea County, NM (NAD 83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	New Mexico Eastern Zone		

<b>Site</b>	Caballo 23 Fed Com				
<b>Site Position:</b>		<b>Northing:</b>	404,685.00 usft	<b>Latitude:</b>	32.11013733
<b>From:</b>	Map	<b>Easting:</b>	783,786.00 usft	<b>Longitude:</b>	-103.55028448
<b>Position Uncertainty:</b>	0.00 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.42 °

<b>Well</b>	#704H					
<b>Well Position</b>	<b>+N/-S</b>	-185.00 usft	<b>Northing:</b>	404,500.00 usft	<b>Latitude:</b>	32.10960147
	<b>+E/-W</b>	1,366.00 usft	<b>Easting:</b>	785,152.00 usft	<b>Longitude:</b>	-103.54587736
<b>Position Uncertainty</b>		0.00 usft	<b>Wellhead Elevation:</b>	0.00 usft	<b>Ground Level:</b>	3,342.00 usft

<b>Wellbore</b>	OH				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b> (°)	<b>Dip Angle</b> (°)	<b>Field Strength</b> (nT)
	IGRF2015	2/13/2017	6.97	59.97	47,908

<b>Design</b>	Plan #0.1				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.00	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b> (usft)	<b>+N/-S</b> (usft)	<b>+E/-W</b> (usft)	<b>Direction</b> (°)	
	0.00	0.00	0.00	1.14	

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	
4,262.09	2.62	133.72	4,262.00	-4.14	4.33	1.00	1.00	0.00	133.72	
11,917.70	2.62	133.72	11,909.60	-246.08	257.36	0.00	0.00	0.00	0.00	
12,682.90	90.00	359.59	12,402.00	231.25	270.12	12.00	11.42	-17.53	-134.10	
22,481.90	90.00	359.59	12,402.00	10,030.00	200.00	0.00	0.00	0.00	0.00	PBHL (Caballo 23 Fed



EOG Resources, Inc.  
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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)
0.00	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	133.72	4,100.00	-0.60	0.63	-0.59	1.00	1.00	0.00
4,200.00	2.00	133.72	4,199.96	-2.41	2.52	-2.36	1.00	1.00	0.00
4,262.09	2.62	133.72	4,262.00	-4.14	4.33	-4.05	1.00	1.00	0.00
4,300.00	2.62	133.72	4,299.87	-5.34	5.58	-5.23	0.00	0.00	0.00
4,400.00	2.62	133.72	4,399.76	-8.50	8.89	-8.32	0.00	0.00	0.00
4,500.00	2.62	133.72	4,499.66	-11.66	12.19	-11.41	0.00	0.00	0.00
4,600.00	2.62	133.72	4,599.56	-14.82	15.50	-14.51	0.00	0.00	0.00
4,700.00	2.62	133.72	4,699.45	-17.98	18.81	-17.60	0.00	0.00	0.00
4,800.00	2.62	133.72	4,799.35	-21.14	22.11	-20.70	0.00	0.00	0.00
4,900.00	2.62	133.72	4,899.24	-24.30	25.42	-23.79	0.00	0.00	0.00
5,000.00	2.62	133.72	4,999.14	-27.46	28.72	-26.88	0.00	0.00	0.00
5,100.00	2.62	133.72	5,099.03	-30.62	32.03	-29.98	0.00	0.00	0.00
5,200.00	2.62	133.72	5,198.93	-33.78	35.33	-33.07	0.00	0.00	0.00



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 Design: Plan #0.1

Local Co-ordinate Reference:  
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 North Reference:  
 Survey Calculation Method:

Well #704H  
 KB = 25' @ 3367.00usft  
 KB = 25' @ 3367.00usft  
 Grid  
 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)
5,300.00	2.62	133.72	5,298.82	-36.94	38.64	-36.16	0.00	0.00	0.00
5,400.00	2.62	133.72	5,398.72	-40.10	41.94	-39.26	0.00	0.00	0.00
5,500.00	2.62	133.72	5,498.61	-43.26	45.25	-42.35	0.00	0.00	0.00
5,600.00	2.62	133.72	5,598.51	-46.42	48.55	-45.45	0.00	0.00	0.00
5,700.00	2.62	133.72	5,698.40	-49.58	51.86	-48.54	0.00	0.00	0.00
5,800.00	2.62	133.72	5,798.30	-52.74	55.16	-51.63	0.00	0.00	0.00
5,900.00	2.62	133.72	5,898.20	-55.90	58.47	-54.73	0.00	0.00	0.00
6,000.00	2.62	133.72	5,998.09	-59.06	61.77	-57.82	0.00	0.00	0.00
6,100.00	2.62	133.72	6,097.99	-62.22	65.08	-60.91	0.00	0.00	0.00
6,200.00	2.62	133.72	6,197.88	-65.38	68.38	-64.01	0.00	0.00	0.00
6,300.00	2.62	133.72	6,297.78	-68.54	71.69	-67.10	0.00	0.00	0.00
6,400.00	2.62	133.72	6,397.67	-71.70	74.99	-70.20	0.00	0.00	0.00
6,500.00	2.62	133.72	6,497.57	-74.86	78.30	-73.29	0.00	0.00	0.00
6,600.00	2.62	133.72	6,597.46	-78.02	81.60	-76.38	0.00	0.00	0.00
6,700.00	2.62	133.72	6,697.36	-81.19	84.91	-79.48	0.00	0.00	0.00
6,800.00	2.62	133.72	6,797.25	-84.35	88.21	-82.57	0.00	0.00	0.00
6,900.00	2.62	133.72	6,897.15	-87.51	91.52	-85.66	0.00	0.00	0.00
7,000.00	2.62	133.72	6,997.04	-90.67	94.82	-88.76	0.00	0.00	0.00
7,100.00	2.62	133.72	7,096.94	-93.83	98.13	-91.85	0.00	0.00	0.00
7,200.00	2.62	133.72	7,196.84	-96.99	101.43	-94.94	0.00	0.00	0.00
7,300.00	2.62	133.72	7,296.73	-100.15	104.74	-98.04	0.00	0.00	0.00
7,400.00	2.62	133.72	7,396.63	-103.31	108.04	-101.13	0.00	0.00	0.00
7,500.00	2.62	133.72	7,496.52	-106.47	111.35	-104.23	0.00	0.00	0.00
7,600.00	2.62	133.72	7,596.42	-109.63	114.65	-107.32	0.00	0.00	0.00
7,700.00	2.62	133.72	7,696.31	-112.79	117.96	-110.41	0.00	0.00	0.00
7,800.00	2.62	133.72	7,796.21	-115.95	121.26	-113.51	0.00	0.00	0.00
7,900.00	2.62	133.72	7,896.10	-119.11	124.57	-116.60	0.00	0.00	0.00
8,000.00	2.62	133.72	7,996.00	-122.27	127.87	-119.69	0.00	0.00	0.00
8,100.00	2.62	133.72	8,095.89	-125.43	131.18	-122.79	0.00	0.00	0.00
8,200.00	2.62	133.72	8,195.79	-128.59	134.48	-125.88	0.00	0.00	0.00
8,300.00	2.62	133.72	8,295.68	-131.75	137.79	-128.98	0.00	0.00	0.00
8,400.00	2.62	133.72	8,395.58	-134.91	141.09	-132.07	0.00	0.00	0.00
8,500.00	2.62	133.72	8,495.48	-138.07	144.40	-135.16	0.00	0.00	0.00
8,600.00	2.62	133.72	8,595.37	-141.23	147.70	-138.26	0.00	0.00	0.00
8,700.00	2.62	133.72	8,695.27	-144.39	151.01	-141.35	0.00	0.00	0.00
8,800.00	2.62	133.72	8,795.16	-147.55	154.31	-144.44	0.00	0.00	0.00
8,900.00	2.62	133.72	8,895.06	-150.71	157.62	-147.54	0.00	0.00	0.00
9,000.00	2.62	133.72	8,994.95	-153.87	160.92	-150.63	0.00	0.00	0.00
9,100.00	2.62	133.72	9,094.85	-157.03	164.23	-153.72	0.00	0.00	0.00
9,200.00	2.62	133.72	9,194.74	-160.19	167.53	-156.82	0.00	0.00	0.00
9,300.00	2.62	133.72	9,294.64	-163.35	170.84	-159.91	0.00	0.00	0.00
9,400.00	2.62	133.72	9,394.53	-166.51	174.14	-163.01	0.00	0.00	0.00
9,500.00	2.62	133.72	9,494.43	-169.67	177.45	-166.10	0.00	0.00	0.00
9,600.00	2.62	133.72	9,594.32	-172.83	180.75	-169.19	0.00	0.00	0.00
9,700.00	2.62	133.72	9,694.22	-175.99	184.06	-172.29	0.00	0.00	0.00
9,800.00	2.62	133.72	9,794.12	-179.15	187.36	-175.38	0.00	0.00	0.00
9,900.00	2.62	133.72	9,894.01	-182.31	190.67	-178.47	0.00	0.00	0.00
10,000.00	2.62	133.72	9,993.91	-185.47	193.97	-181.57	0.00	0.00	0.00
10,100.00	2.62	133.72	10,093.80	-188.63	197.28	-184.66	0.00	0.00	0.00
10,200.00	2.62	133.72	10,193.70	-191.79	200.58	-187.76	0.00	0.00	0.00
10,300.00	2.62	133.72	10,293.59	-194.95	203.89	-190.85	0.00	0.00	0.00
10,400.00	2.62	133.72	10,393.49	-198.11	207.19	-193.94	0.00	0.00	0.00
10,500.00	2.62	133.72	10,493.38	-201.27	210.50	-197.04	0.00	0.00	0.00
10,600.00	2.62	133.72	10,593.28	-204.43	213.80	-200.13	0.00	0.00	0.00



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10,700.00	2.62	133.72	10,693.17	-207.59	217.11	-203.22	0.00	0.00	0.00
10,800.00	2.62	133.72	10,793.07	-210.75	220.41	-206.32	0.00	0.00	0.00
10,900.00	2.62	133.72	10,892.97	-213.91	223.72	-209.41	0.00	0.00	0.00
11,000.00	2.62	133.72	10,992.86	-217.07	227.02	-212.51	0.00	0.00	0.00
11,100.00	2.62	133.72	11,092.76	-220.23	230.33	-215.60	0.00	0.00	0.00
11,200.00	2.62	133.72	11,192.65	-223.39	233.64	-218.69	0.00	0.00	0.00
11,300.00	2.62	133.72	11,292.55	-226.55	236.94	-221.79	0.00	0.00	0.00
11,400.00	2.62	133.72	11,392.44	-229.72	240.25	-224.88	0.00	0.00	0.00
11,500.00	2.62	133.72	11,492.34	-232.88	243.55	-227.97	0.00	0.00	0.00
11,600.00	2.62	133.72	11,592.23	-236.04	246.86	-231.07	0.00	0.00	0.00
11,700.00	2.62	133.72	11,692.13	-239.20	250.16	-234.16	0.00	0.00	0.00
11,800.00	2.62	133.72	11,792.02	-242.36	253.47	-237.25	0.00	0.00	0.00
11,900.00	2.62	133.72	11,891.92	-245.52	256.77	-240.35	0.00	0.00	0.00
11,917.70	2.62	133.72	11,909.60	-246.08	257.36	-240.90	0.00	0.00	0.00
11,925.00	2.11	116.34	11,916.89	-246.25	257.60	-241.07	12.00	-7.03	-237.99
11,950.00	2.78	42.10	11,941.88	-246.00	258.42	-240.80	12.00	2.71	-296.95
11,975.00	5.39	19.97	11,966.81	-244.45	259.22	-239.23	12.00	10.42	-88.53
12,000.00	8.27	12.66	11,991.63	-241.59	260.02	-236.36	12.00	11.51	-29.24
12,025.00	11.21	9.13	12,016.27	-237.44	260.80	-232.19	12.00	11.77	-14.10
12,050.00	14.17	7.07	12,040.66	-232.00	261.56	-226.74	12.00	11.86	-8.28
12,075.00	17.15	5.70	12,064.73	-225.29	262.30	-220.02	12.00	11.91	-5.46
12,100.00	20.14	4.73	12,088.41	-217.33	263.03	-212.05	12.00	11.94	-3.88
12,125.00	23.12	4.00	12,111.65	-208.15	263.72	-202.85	12.00	11.95	-2.91
12,150.00	26.11	3.43	12,134.37	-197.75	264.40	-192.44	12.00	11.96	-2.28
12,175.00	29.11	2.97	12,156.52	-186.19	265.04	-180.87	12.00	11.97	-1.84
12,200.00	32.10	2.59	12,178.04	-173.48	265.66	-168.15	12.00	11.97	-1.52
12,225.00	35.10	2.27	12,198.86	-159.66	266.24	-154.32	12.00	11.98	-1.29
12,250.00	38.09	1.99	12,218.93	-144.76	266.79	-139.42	12.00	11.98	-1.11
12,275.00	41.09	1.75	12,238.19	-128.84	267.31	-123.49	12.00	11.98	-0.97
12,300.00	44.08	1.53	12,256.60	-111.94	267.80	-106.57	12.00	11.99	-0.86
12,325.00	47.08	1.34	12,274.09	-94.09	268.24	-88.72	12.00	11.99	-0.77
12,350.00	50.08	1.17	12,290.63	-75.35	268.65	-69.98	12.00	11.99	-0.70
12,375.00	53.07	1.00	12,306.17	-55.77	269.02	-50.39	12.00	11.99	-0.64
12,400.00	56.07	0.86	12,320.66	-35.40	269.35	-30.02	12.00	11.99	-0.59
12,425.00	59.07	0.72	12,334.06	-14.30	269.64	-8.92	12.00	11.99	-0.55
12,450.00	62.07	0.59	12,346.34	7.47	269.89	12.85	12.00	11.99	-0.52
12,475.00	65.07	0.47	12,357.47	29.85	270.10	35.23	12.00	11.99	-0.49
12,494.68	67.43	0.37	12,365.40	47.86	270.23	53.24	12.00	11.99	-0.47
<b>FTP (Caballo 23 Fed Com #704H)</b>									
12,500.00	68.06	0.35	12,367.41	52.78	270.26	58.16	12.00	11.99	-0.46
12,525.00	71.06	0.24	12,376.14	76.21	270.38	81.58	12.00	11.99	-0.45
12,550.00	74.06	0.13	12,383.63	100.06	270.45	105.43	12.00	11.99	-0.43
12,575.00	77.06	0.02	12,389.87	124.26	270.49	129.63	12.00	11.99	-0.42
12,600.00	80.06	359.92	12,394.82	148.76	270.47	154.13	12.00	11.99	-0.41
12,625.00	83.06	359.82	12,398.50	173.49	270.42	178.85	12.00	11.99	-0.40
12,650.00	86.05	359.72	12,400.87	198.37	270.32	203.72	12.00	11.99	-0.40
12,675.00	89.05	359.62	12,401.93	223.35	270.17	228.69	12.00	11.99	-0.39
12,682.90	90.00	359.59	12,402.00	231.25	270.12	236.59	12.00	11.99	-0.39
12,700.00	90.00	359.59	12,402.00	248.35	270.00	253.68	0.00	0.00	0.00
12,800.00	90.00	359.59	12,402.00	348.34	269.28	353.64	0.00	0.00	0.00
12,900.00	90.00	359.59	12,402.00	448.34	268.57	453.61	0.00	0.00	0.00
13,000.00	90.00	359.59	12,402.00	548.34	267.85	553.57	0.00	0.00	0.00
13,100.00	90.00	359.59	12,402.00	648.34	267.13	653.53	0.00	0.00	0.00



Database: EDM 5000.1 Single User Db  
 Company: EOG Resources - Midland  
 Project: Lea County, NM (NAD 83 NME)  
 Site: Caballo 23 Fed Com  
 Well: #704H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H  
 TVD Reference: KB = 25' @ 3367.00usft  
 MD Reference: KB = 25' @ 3367.00usft  
 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)
13,200.00	90.00	359.59	12,402.00	748.33	266.42	753.50	0.00	0.00	0.00
13,300.00	90.00	359.59	12,402.00	848.33	265.70	853.46	0.00	0.00	0.00
13,400.00	90.00	359.59	12,402.00	948.33	264.99	953.42	0.00	0.00	0.00
13,500.00	90.00	359.59	12,402.00	1,048.33	264.27	1,053.39	0.00	0.00	0.00
13,600.00	90.00	359.59	12,402.00	1,148.32	263.56	1,153.35	0.00	0.00	0.00
13,700.00	90.00	359.59	12,402.00	1,248.32	262.84	1,253.31	0.00	0.00	0.00
13,800.00	90.00	359.59	12,402.00	1,348.32	262.13	1,353.28	0.00	0.00	0.00
13,900.00	90.00	359.59	12,402.00	1,448.32	261.41	1,453.24	0.00	0.00	0.00
14,000.00	90.00	359.59	12,402.00	1,548.31	260.69	1,553.20	0.00	0.00	0.00
14,100.00	90.00	359.59	12,402.00	1,648.31	259.98	1,653.17	0.00	0.00	0.00
14,200.00	90.00	359.59	12,402.00	1,748.31	259.26	1,753.13	0.00	0.00	0.00
14,300.00	90.00	359.59	12,402.00	1,848.31	258.55	1,853.09	0.00	0.00	0.00
14,400.00	90.00	359.59	12,402.00	1,948.30	257.83	1,953.06	0.00	0.00	0.00
14,500.00	90.00	359.59	12,402.00	2,048.30	257.12	2,053.02	0.00	0.00	0.00
14,600.00	90.00	359.59	12,402.00	2,148.30	256.40	2,152.98	0.00	0.00	0.00
14,700.00	90.00	359.59	12,402.00	2,248.30	255.69	2,252.95	0.00	0.00	0.00
14,800.00	90.00	359.59	12,402.00	2,348.29	254.97	2,352.91	0.00	0.00	0.00
14,900.00	90.00	359.59	12,402.00	2,448.29	254.25	2,452.87	0.00	0.00	0.00
15,000.00	90.00	359.59	12,402.00	2,548.29	253.54	2,552.84	0.00	0.00	0.00
15,100.00	90.00	359.59	12,402.00	2,648.29	252.82	2,652.80	0.00	0.00	0.00
15,200.00	90.00	359.59	12,402.00	2,748.28	252.11	2,752.76	0.00	0.00	0.00
15,300.00	90.00	359.59	12,402.00	2,848.28	251.39	2,852.73	0.00	0.00	0.00
15,400.00	90.00	359.59	12,402.00	2,948.28	250.68	2,952.69	0.00	0.00	0.00
15,500.00	90.00	359.59	12,402.00	3,048.28	249.96	3,052.65	0.00	0.00	0.00
15,600.00	90.00	359.59	12,402.00	3,148.27	249.25	3,152.62	0.00	0.00	0.00
15,700.00	90.00	359.59	12,402.00	3,248.27	248.53	3,252.58	0.00	0.00	0.00
15,800.00	90.00	359.59	12,402.00	3,348.27	247.81	3,352.54	0.00	0.00	0.00
15,900.00	90.00	359.59	12,402.00	3,448.27	247.10	3,452.51	0.00	0.00	0.00
16,000.00	90.00	359.59	12,402.00	3,548.26	246.38	3,552.47	0.00	0.00	0.00
16,100.00	90.00	359.59	12,402.00	3,648.26	245.67	3,652.43	0.00	0.00	0.00
16,200.00	90.00	359.59	12,402.00	3,748.26	244.95	3,752.40	0.00	0.00	0.00
16,300.00	90.00	359.59	12,402.00	3,848.26	244.24	3,852.36	0.00	0.00	0.00
16,400.00	90.00	359.59	12,402.00	3,948.25	243.52	3,952.32	0.00	0.00	0.00
16,500.00	90.00	359.59	12,402.00	4,048.25	242.81	4,052.29	0.00	0.00	0.00
16,600.00	90.00	359.59	12,402.00	4,148.25	242.09	4,152.25	0.00	0.00	0.00
16,700.00	90.00	359.59	12,402.00	4,248.24	241.37	4,252.21	0.00	0.00	0.00
16,800.00	90.00	359.59	12,402.00	4,348.24	240.66	4,352.18	0.00	0.00	0.00
16,900.00	90.00	359.59	12,402.00	4,448.24	239.94	4,452.14	0.00	0.00	0.00
17,000.00	90.00	359.59	12,402.00	4,548.24	239.23	4,552.10	0.00	0.00	0.00
17,100.00	90.00	359.59	12,402.00	4,648.23	238.51	4,652.07	0.00	0.00	0.00
17,200.00	90.00	359.59	12,402.00	4,748.23	237.80	4,752.03	0.00	0.00	0.00
17,300.00	90.00	359.59	12,402.00	4,848.23	237.08	4,851.99	0.00	0.00	0.00
17,400.00	90.00	359.59	12,402.00	4,948.23	236.37	4,951.96	0.00	0.00	0.00
17,500.00	90.00	359.59	12,402.00	5,048.22	235.65	5,051.92	0.00	0.00	0.00
17,600.00	90.00	359.59	12,402.00	5,148.22	234.93	5,151.88	0.00	0.00	0.00
17,700.00	90.00	359.59	12,402.00	5,248.22	234.22	5,251.85	0.00	0.00	0.00
17,800.00	90.00	359.59	12,402.00	5,348.22	233.50	5,351.81	0.00	0.00	0.00
17,900.00	90.00	359.59	12,402.00	5,448.21	232.79	5,451.77	0.00	0.00	0.00
18,000.00	90.00	359.59	12,402.00	5,548.21	232.07	5,551.74	0.00	0.00	0.00
18,100.00	90.00	359.59	12,402.00	5,648.21	231.36	5,651.70	0.00	0.00	0.00
18,200.00	90.00	359.59	12,402.00	5,748.21	230.64	5,751.66	0.00	0.00	0.00
18,300.00	90.00	359.59	12,402.00	5,848.20	229.92	5,851.63	0.00	0.00	0.00
18,400.00	90.00	359.59	12,402.00	5,948.20	229.21	5,951.59	0.00	0.00	0.00
18,500.00	90.00	359.59	12,402.00	6,048.20	228.49	6,051.55	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 83 NME)  
 Site: Caballo 23 Fed Com  
 Well: #704H  
 Wellbore: OH  
 Design: Plan #0.1

Local Co-ordinate Reference: Well #704H  
 TVD Reference: KB = 25' @ 3367.00usft  
 MD Reference: KB = 25' @ 3367.00usft  
 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)
18,600.00	90.00	359.59	12,402.00	6,148.20	227.78	6,151.52	0.00	0.00	0.00
18,700.00	90.00	359.59	12,402.00	6,248.19	227.06	6,251.48	0.00	0.00	0.00
18,800.00	90.00	359.59	12,402.00	6,348.19	226.35	6,351.44	0.00	0.00	0.00
18,900.00	90.00	359.59	12,402.00	6,448.19	225.63	6,451.41	0.00	0.00	0.00
19,000.00	90.00	359.59	12,402.00	6,548.19	224.92	6,551.37	0.00	0.00	0.00
19,100.00	90.00	359.59	12,402.00	6,648.18	224.20	6,651.33	0.00	0.00	0.00
19,200.00	90.00	359.59	12,402.00	6,748.18	223.48	6,751.30	0.00	0.00	0.00
19,300.00	90.00	359.59	12,402.00	6,848.18	222.77	6,851.26	0.00	0.00	0.00
19,400.00	90.00	359.59	12,402.00	6,948.18	222.05	6,951.22	0.00	0.00	0.00
19,500.00	90.00	359.59	12,402.00	7,048.17	221.34	7,051.19	0.00	0.00	0.00
19,600.00	90.00	359.59	12,402.00	7,148.17	220.62	7,151.15	0.00	0.00	0.00
19,700.00	90.00	359.59	12,402.00	7,248.17	219.91	7,251.11	0.00	0.00	0.00
19,800.00	90.00	359.59	12,402.00	7,348.17	219.19	7,351.08	0.00	0.00	0.00
19,900.00	90.00	359.59	12,402.00	7,448.16	218.48	7,451.04	0.00	0.00	0.00
20,000.00	90.00	359.59	12,402.00	7,548.16	217.76	7,551.00	0.00	0.00	0.00
20,100.00	90.00	359.59	12,402.00	7,648.16	217.04	7,650.96	0.00	0.00	0.00
20,200.00	90.00	359.59	12,402.00	7,748.16	216.33	7,750.93	0.00	0.00	0.00
20,300.00	90.00	359.59	12,402.00	7,848.15	215.61	7,850.89	0.00	0.00	0.00
20,400.00	90.00	359.59	12,402.00	7,948.15	214.90	7,950.85	0.00	0.00	0.00
20,500.00	90.00	359.59	12,402.00	8,048.15	214.18	8,050.82	0.00	0.00	0.00
20,600.00	90.00	359.59	12,402.00	8,148.15	213.47	8,150.78	0.00	0.00	0.00
20,700.00	90.00	359.59	12,402.00	8,248.14	212.75	8,250.74	0.00	0.00	0.00
20,800.00	90.00	359.59	12,402.00	8,348.14	212.04	8,350.71	0.00	0.00	0.00
20,900.00	90.00	359.59	12,402.00	8,448.14	211.32	8,450.67	0.00	0.00	0.00
21,000.00	90.00	359.59	12,402.00	8,548.13	210.60	8,550.63	0.00	0.00	0.00
21,100.00	90.00	359.59	12,402.00	8,648.13	209.89	8,650.60	0.00	0.00	0.00
21,200.00	90.00	359.59	12,402.00	8,748.13	209.17	8,750.56	0.00	0.00	0.00
21,300.00	90.00	359.59	12,402.00	8,848.13	208.46	8,850.52	0.00	0.00	0.00
21,400.00	90.00	359.59	12,402.00	8,948.12	207.74	8,950.49	0.00	0.00	0.00
21,500.00	90.00	359.59	12,402.00	9,048.12	207.03	9,050.45	0.00	0.00	0.00
21,600.00	90.00	359.59	12,402.00	9,148.12	206.31	9,150.41	0.00	0.00	0.00
21,700.00	90.00	359.59	12,402.00	9,248.12	205.60	9,250.38	0.00	0.00	0.00
21,800.00	90.00	359.59	12,402.00	9,348.11	204.88	9,350.34	0.00	0.00	0.00
21,900.00	90.00	359.59	12,402.00	9,448.11	204.16	9,450.30	0.00	0.00	0.00
22,000.00	90.00	359.59	12,402.00	9,548.11	203.45	9,550.27	0.00	0.00	0.00
22,100.00	90.00	359.59	12,402.00	9,648.11	202.73	9,650.23	0.00	0.00	0.00
22,200.00	90.00	359.59	12,402.00	9,748.10	202.02	9,750.19	0.00	0.00	0.00
22,300.00	90.00	359.59	12,402.00	9,848.10	201.30	9,850.16	0.00	0.00	0.00
22,400.00	90.00	359.59	12,402.00	9,948.10	200.59	9,950.12	0.00	0.00	0.00
22,481.90	90.00	359.59	12,402.00	10,030.00	200.00	10,031.99	0.00	0.00	0.00

PBHL (Caballo 23 Fed Com #704H)





**Database:** EDM 5000.1 Single User Db  
**Company:** EOG Resources - Midland  
**Project:** Lea County, NM (NAD 83 NME)  
**Site:** Caballo 23 Fed Com  
**Well:** #704H  
**Wellbore:** OH  
**Design:** Plan #0.1

**Local Co-ordinate Reference:** Well #704H  
**TVD Reference:** KB = 25' @ 3367.00usft  
**MD Reference:** KB = 25' @ 3367.00usft  
**North Reference:** Grid  
**Survey Calculation Method:** Minimum Curvature

**Design Targets**

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
PBHL (Caballo 23 Fed C - plan hits target center - Point	0.00	0.00	12,402.00	10,030.00	200.00	414,530.00	785,352.00	32.13716681	-103.54499446
FTP (Caballo 23 Fed Co - plan misses target center by 39.89usft at 12494.68usft MD (12365.40 TVD, 47.86 N, 270.23 E) - Point	0.00	0.00	12,402.00	32.00	270.00	404,532.00	785,422.00	32.10968400	-103.54500465



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #704H

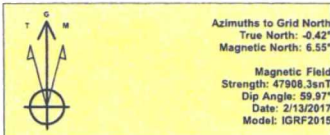
Plan #0.1

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: #704H

Ground Level: 3342.00  
 KB = 25' @ 3367.00usft  
 Northing: 404500.00 Easting: 785152.00  
 Latitude: 32.19960147 Longitude: -103.54567736



To convert a Magnetic Direction to a Grid Direction, Add 6.55"  
 To convert a Magnetic Direction to a True Direction, Add 6.97" East  
 To convert a True Direction to a Grid Direction, Subtract 0.42"

SECTION DETAILS

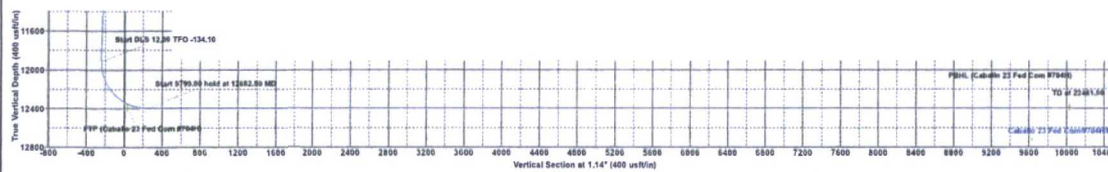
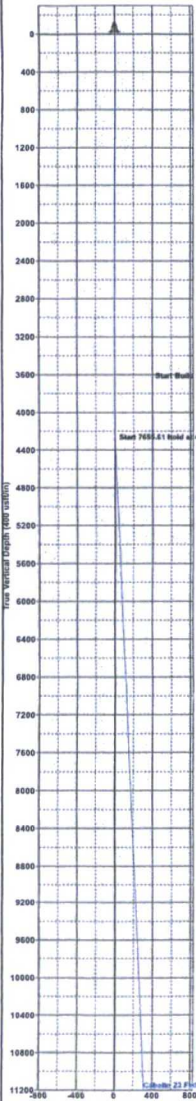
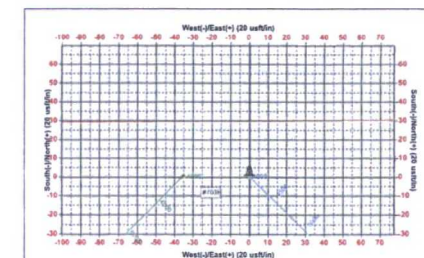
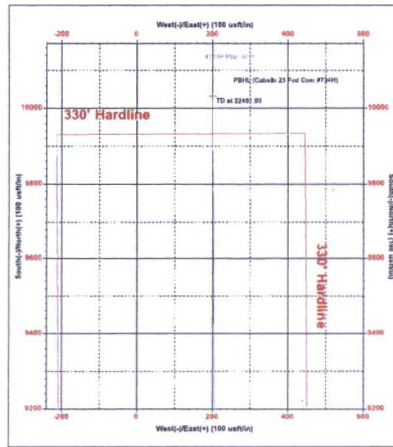
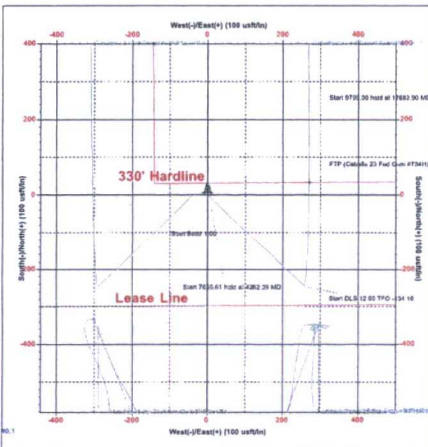
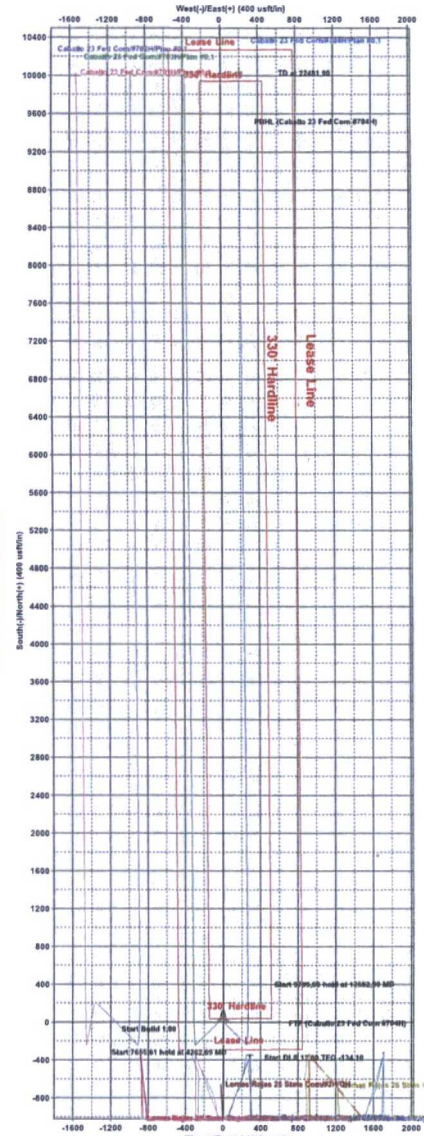
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4262.09	2.62	133.72	4262.00	-4.14	4.33	1.00	133.72	-4.05	
4	11917.70	2.62	133.72	11909.60	-246.08	257.36	0.00	0.00	-240.90	
5	12682.90	90.00	359.59	12402.00	231.25	270.12	12.00	-134.10	236.59	
6	22481.90	90.00	359.59	12402.00	10030.00	200.00	0.00	0.00	10031.99	PBHL (Caballo 23 Fed Com #704H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Caballo 23 Fed Com #704H)	12462.00	32.00	270.00	404532.00	785422.00
PBHL (Caballo 23 Fed Com #704H)	12462.00	10030.00	200.00	414530.00	785352.00



Lea County, NM (NAD 83 NME)  
 Caballo 23 Fed Com #704H  
 Plan #0.1  
 Date: 2/13/2017  
 Author: [Name]