

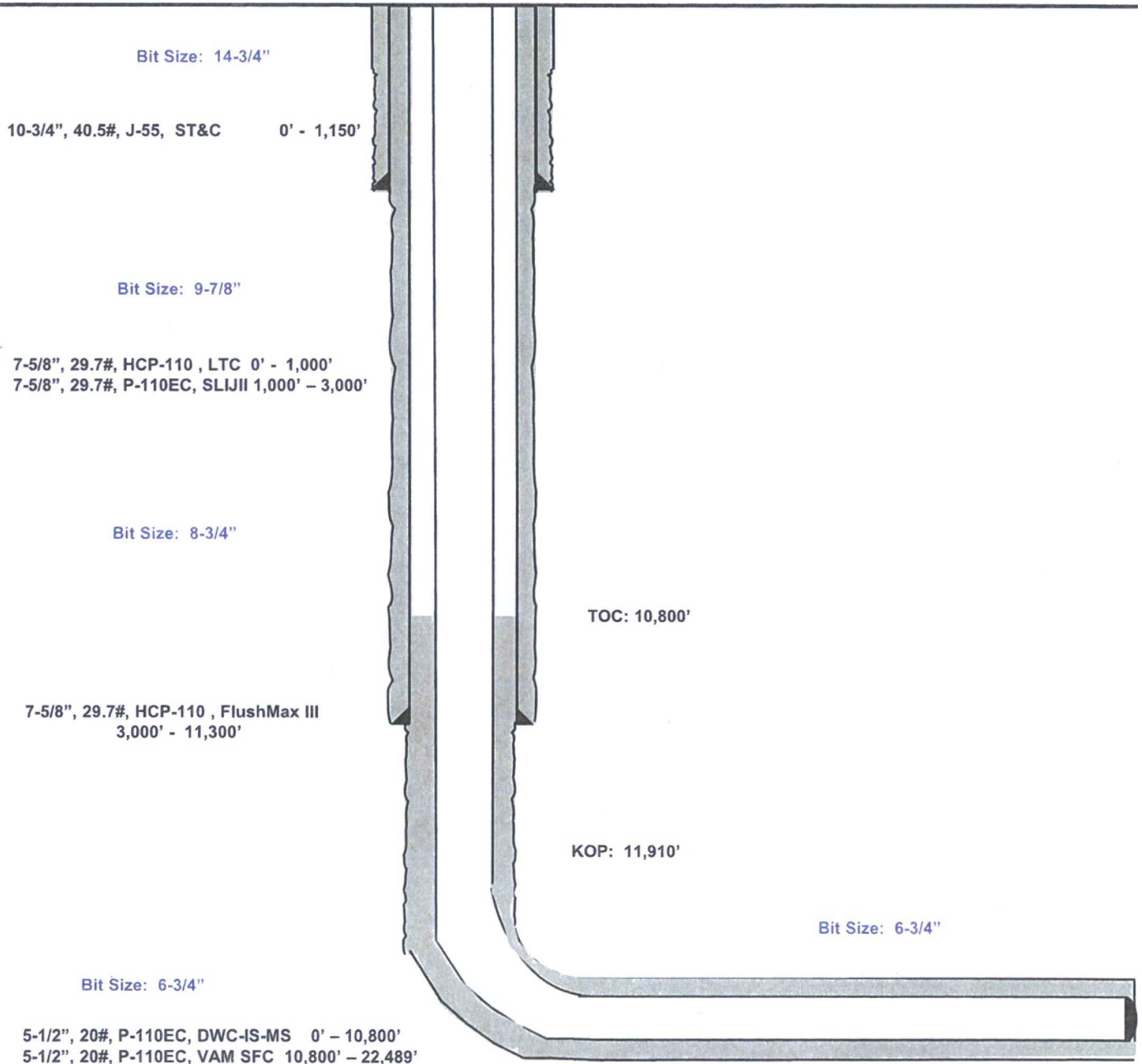
Caballo 23 Fed Com #701H

Lea County, New Mexico
Proposed Wellbore

494' FSL
426' FWL
Section 23
T-25-S, R-33-E

API: 30-025-*****

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



Lateral: 22,489' MD, 12,402' TVD
Upper Most Perf:
330' FSL & 330' FWL Sec. 23
Lower Most Perf:
330' FNL & 330' FWL Sec. 14
BH Location: 230' FNL & 330' FWL
Section 14
T-25-S, R-33-E



Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com #701H

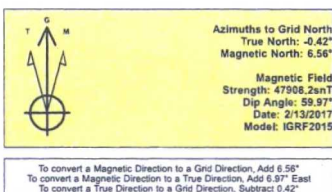
Plan #0.1

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: 3342.00
KB = 25' @ 3367.00usft
Northing: 404685.00 Easting: 763786.00 Latitude: 32.11013734 Longitude: -103.55028448



SECTION DETAILS

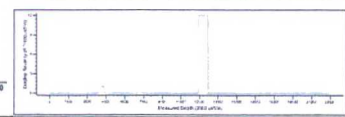
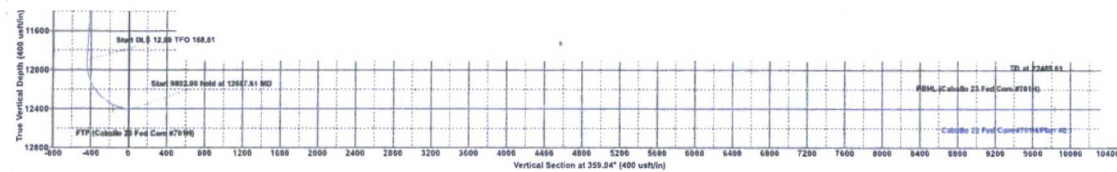
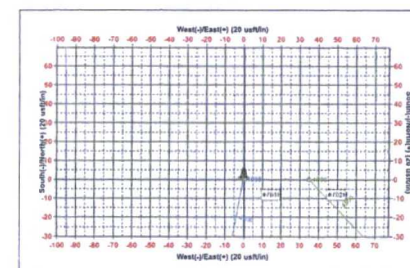
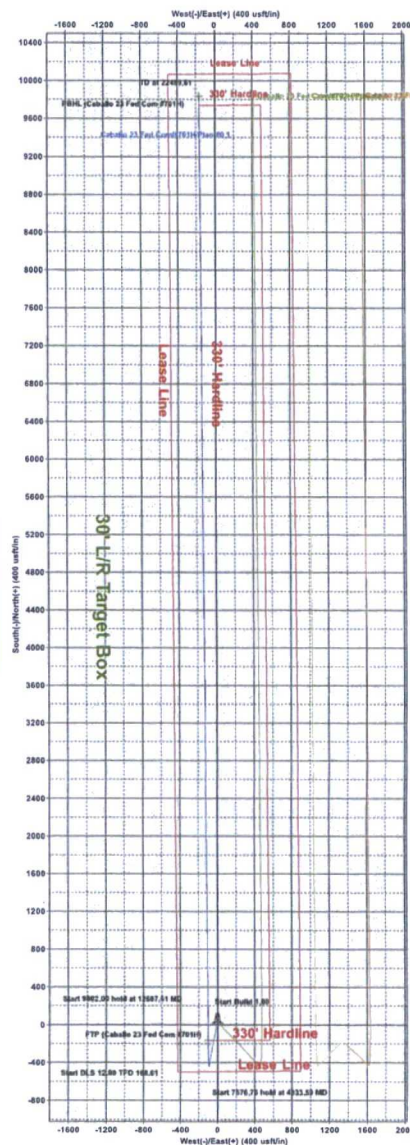
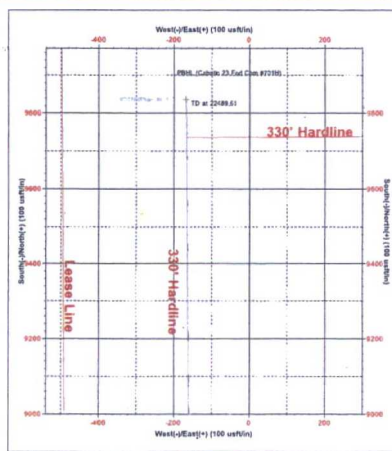
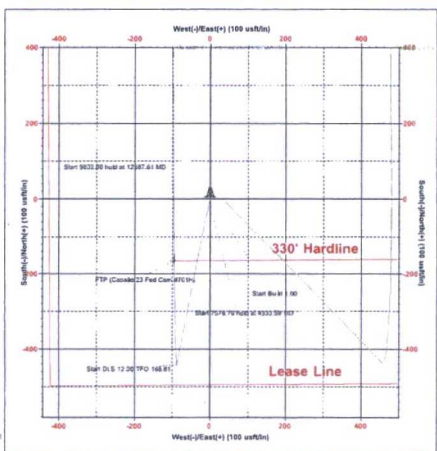
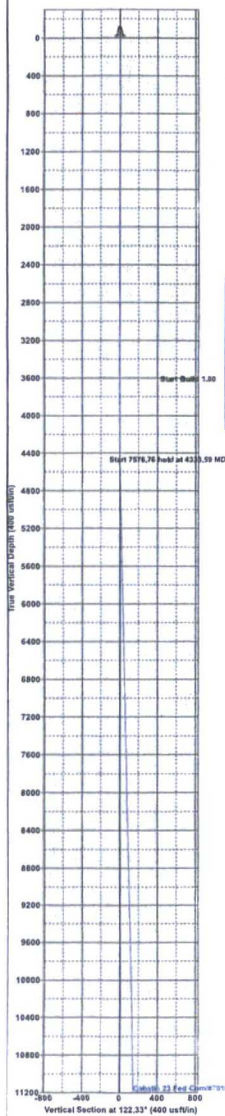
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
3	4333.59	3.34	190.96	4333.40	-9.53	-1.85	1.00	190.96	-9.50	
4	11910.36	3.34	190.96	11897.33	-442.39	-85.65	0.00	0.00	-440.89	
5	12687.61	90.00	359.59	12402.00	34.25	-94.86	12.00	168.61	35.83	
6	22489.61	90.00	359.59	12402.00	9836.00	-165.00	0.00	0.00	9837.38	PBHL (Caballo 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 (Caballo 23 Fed Com #701H)	12402.00	-165.00	-95.00	404685.00	763786.00
PBHL (Caballo 23 Fed Com #701H)	12402.00	9836.00	-165.00	414521.00	763621.00



Print Date: 12/20/2017
Print Time: 10:00:00 AM
User: J. J. J.
Page: 1 of 1



EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Caballo 23 Fed Com

#701H

OH

Plan: Plan #0.1

Standard Planning Report

13 February, 2017

HOBBS OCD
JUN 26 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: Caballo 23 Fed Com
Well: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3367.00usft
MD Reference: KB = 25' @ 3367.00usft
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	Caballo 23 Fed Com				
Site Position:		Northing:	404,685.00 usft	Latitude:	32.11013733
From:	Map	Easting:	783,786.00 usft	Longitude:	-103.55028448
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	#701H					
Well Position	+N/-S	0.00 usft	Northing:	404,685.00 usft	Latitude:	32.11013733
	+E/-W	0.00 usft	Easting:	783,786.00 usft	Longitude:	-103.55028448
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,342.00 usft

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

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	359.04

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	
4,333.59	3.34	190.96	4,333.40	-9.53	-1.85	1.00	1.00	0.00	190.96	
11,910.36	3.34	190.96	11,897.33	-442.39	-85.65	0.00	0.00	0.00	0.00	
12,687.61	90.00	359.59	12,402.00	34.25	-94.86	12.00	11.15	21.70	168.61	
22,489.61	90.00	359.59	12,402.00	9,836.00	-165.00	0.00	0.00	0.00	0.00	PBHL (Caballo 23 Fed)



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

Local Co-ordinate Reference: Well #701H
 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)
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	190.96	4,100.00	-0.86	-0.17	-0.85	1.00	1.00	0.00
4,200.00	2.00	190.96	4,199.96	-3.43	-0.66	-3.42	1.00	1.00	0.00
4,300.00	3.00	190.96	4,299.86	-7.71	-1.49	-7.68	1.00	1.00	0.00
4,333.59	3.34	190.96	4,333.40	-9.53	-1.85	-9.50	1.00	1.00	0.00
4,400.00	3.34	190.96	4,399.70	-13.33	-2.58	-13.28	0.00	0.00	0.00
4,500.00	3.34	190.96	4,499.53	-19.04	-3.69	-18.97	0.00	0.00	0.00
4,600.00	3.34	190.96	4,599.36	-24.75	-4.79	-24.67	0.00	0.00	0.00
4,700.00	3.34	190.96	4,699.19	-30.46	-5.90	-30.36	0.00	0.00	0.00
4,800.00	3.34	190.96	4,799.02	-36.18	-7.00	-36.05	0.00	0.00	0.00
4,900.00	3.34	190.96	4,898.85	-41.89	-8.11	-41.75	0.00	0.00	0.00
5,000.00	3.34	190.96	4,998.68	-47.60	-9.22	-47.44	0.00	0.00	0.00
5,100.00	3.34	190.96	5,098.51	-53.32	-10.32	-53.14	0.00	0.00	0.00
5,200.00	3.34	190.96	5,198.34	-59.03	-11.43	-58.83	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: #701H
 Wellbore: OH
 Design: Plan #0.1

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

Well #701H
 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	3.34	190.96	5,298.17	-64.74	-12.53	-64.52	0.00	0.00	0.00
5,400.00	3.34	190.96	5,398.00	-70.45	-13.64	-70.22	0.00	0.00	0.00
5,500.00	3.34	190.96	5,497.84	-76.17	-14.75	-75.91	0.00	0.00	0.00
5,600.00	3.34	190.96	5,597.67	-81.88	-15.85	-81.60	0.00	0.00	0.00
5,700.00	3.34	190.96	5,697.50	-87.59	-16.96	-87.30	0.00	0.00	0.00
5,800.00	3.34	190.96	5,797.33	-93.31	-18.06	-92.99	0.00	0.00	0.00
5,900.00	3.34	190.96	5,897.16	-99.02	-19.17	-98.68	0.00	0.00	0.00
6,000.00	3.34	190.96	5,996.99	-104.73	-20.28	-104.38	0.00	0.00	0.00
6,100.00	3.34	190.96	6,096.82	-110.44	-21.38	-110.07	0.00	0.00	0.00
6,200.00	3.34	190.96	6,196.65	-116.16	-22.49	-115.76	0.00	0.00	0.00
6,300.00	3.34	190.96	6,296.48	-121.87	-23.60	-121.46	0.00	0.00	0.00
6,400.00	3.34	190.96	6,396.31	-127.58	-24.70	-127.15	0.00	0.00	0.00
6,500.00	3.34	190.96	6,496.14	-133.30	-25.81	-132.84	0.00	0.00	0.00
6,600.00	3.34	190.96	6,595.97	-139.01	-26.91	-138.54	0.00	0.00	0.00
6,700.00	3.34	190.96	6,695.80	-144.72	-28.02	-144.23	0.00	0.00	0.00
6,800.00	3.34	190.96	6,795.63	-150.44	-29.13	-149.93	0.00	0.00	0.00
6,900.00	3.34	190.96	6,895.46	-156.15	-30.23	-155.62	0.00	0.00	0.00
7,000.00	3.34	190.96	6,995.29	-161.86	-31.34	-161.31	0.00	0.00	0.00
7,100.00	3.34	190.96	7,095.12	-167.57	-32.44	-167.01	0.00	0.00	0.00
7,200.00	3.34	190.96	7,194.95	-173.29	-33.55	-172.70	0.00	0.00	0.00
7,300.00	3.34	190.96	7,294.79	-179.00	-34.66	-178.39	0.00	0.00	0.00
7,400.00	3.34	190.96	7,394.62	-184.71	-35.76	-184.09	0.00	0.00	0.00
7,500.00	3.34	190.96	7,494.45	-190.43	-36.87	-189.78	0.00	0.00	0.00
7,600.00	3.34	190.96	7,594.28	-196.14	-37.97	-195.47	0.00	0.00	0.00
7,700.00	3.34	190.96	7,694.11	-201.85	-39.08	-201.17	0.00	0.00	0.00
7,800.00	3.34	190.96	7,793.94	-207.56	-40.19	-206.86	0.00	0.00	0.00
7,900.00	3.34	190.96	7,893.77	-213.28	-41.29	-212.55	0.00	0.00	0.00
8,000.00	3.34	190.96	7,993.60	-218.99	-42.40	-218.25	0.00	0.00	0.00
8,100.00	3.34	190.96	8,093.43	-224.70	-43.50	-223.94	0.00	0.00	0.00
8,200.00	3.34	190.96	8,193.26	-230.42	-44.61	-229.64	0.00	0.00	0.00
8,300.00	3.34	190.96	8,293.09	-236.13	-45.72	-235.33	0.00	0.00	0.00
8,400.00	3.34	190.96	8,392.92	-241.84	-46.82	-241.02	0.00	0.00	0.00
8,500.00	3.34	190.96	8,492.75	-247.55	-47.93	-246.72	0.00	0.00	0.00
8,600.00	3.34	190.96	8,592.58	-253.27	-49.04	-252.41	0.00	0.00	0.00
8,700.00	3.34	190.96	8,692.41	-258.98	-50.14	-258.10	0.00	0.00	0.00
8,800.00	3.34	190.96	8,792.24	-264.69	-51.25	-263.80	0.00	0.00	0.00
8,900.00	3.34	190.96	8,892.07	-270.41	-52.35	-269.49	0.00	0.00	0.00
9,000.00	3.34	190.96	8,991.90	-276.12	-53.46	-275.18	0.00	0.00	0.00
9,100.00	3.34	190.96	9,091.74	-281.83	-54.57	-280.88	0.00	0.00	0.00
9,200.00	3.34	190.96	9,191.57	-287.55	-55.67	-286.57	0.00	0.00	0.00
9,300.00	3.34	190.96	9,291.40	-293.26	-56.78	-292.26	0.00	0.00	0.00
9,400.00	3.34	190.96	9,391.23	-298.97	-57.88	-297.96	0.00	0.00	0.00
9,500.00	3.34	190.96	9,491.06	-304.68	-58.99	-303.65	0.00	0.00	0.00
9,600.00	3.34	190.96	9,590.89	-310.40	-60.10	-309.35	0.00	0.00	0.00
9,700.00	3.34	190.96	9,690.72	-316.11	-61.20	-315.04	0.00	0.00	0.00
9,800.00	3.34	190.96	9,790.55	-321.82	-62.31	-320.73	0.00	0.00	0.00
9,900.00	3.34	190.96	9,890.38	-327.54	-63.41	-326.43	0.00	0.00	0.00
10,000.00	3.34	190.96	9,990.21	-333.25	-64.52	-332.12	0.00	0.00	0.00
10,100.00	3.34	190.96	10,090.04	-338.96	-65.63	-337.81	0.00	0.00	0.00
10,200.00	3.34	190.96	10,189.87	-344.67	-66.73	-343.51	0.00	0.00	0.00
10,300.00	3.34	190.96	10,289.70	-350.39	-67.84	-349.20	0.00	0.00	0.00
10,400.00	3.34	190.96	10,389.53	-356.10	-68.94	-354.89	0.00	0.00	0.00
10,500.00	3.34	190.96	10,489.36	-361.81	-70.05	-360.59	0.00	0.00	0.00
10,600.00	3.34	190.96	10,589.19	-367.53	-71.16	-366.28	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: #701H
Wellbore: OH
Design: Plan #0.1

Local Co-ordinate Reference: Well #701H
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)
10,700.00	3.34	190.96	10,689.02	-373.24	-72.26	-371.97	0.00	0.00	0.00
10,800.00	3.34	190.96	10,788.85	-378.95	-73.37	-377.67	0.00	0.00	0.00
10,900.00	3.34	190.96	10,888.69	-384.66	-74.47	-383.36	0.00	0.00	0.00
11,000.00	3.34	190.96	10,988.52	-390.38	-75.58	-389.05	0.00	0.00	0.00
11,100.00	3.34	190.96	11,088.35	-396.09	-76.69	-394.75	0.00	0.00	0.00
11,200.00	3.34	190.96	11,188.18	-401.80	-77.79	-400.44	0.00	0.00	0.00
11,300.00	3.34	190.96	11,288.01	-407.52	-78.90	-406.14	0.00	0.00	0.00
11,400.00	3.34	190.96	11,387.84	-413.23	-80.01	-411.83	0.00	0.00	0.00
11,500.00	3.34	190.96	11,487.67	-418.94	-81.11	-417.52	0.00	0.00	0.00
11,600.00	3.34	190.96	11,587.50	-424.65	-82.22	-423.22	0.00	0.00	0.00
11,700.00	3.34	190.96	11,687.33	-430.37	-83.32	-428.91	0.00	0.00	0.00
11,800.00	3.34	190.96	11,787.16	-436.08	-84.43	-434.60	0.00	0.00	0.00
11,900.00	3.34	190.96	11,886.99	-441.79	-85.54	-440.30	0.00	0.00	0.00
11,910.36	3.34	190.96	11,897.33	-442.39	-85.65	-440.89	0.00	0.00	0.00
11,925.00	1.65	203.09	11,911.96	-443.00	-85.81	-441.50	12.00	-11.51	82.87
11,950.00	1.63	335.71	11,936.95	-443.01	-86.10	-441.50	12.00	-0.10	530.49
11,975.00	4.53	351.26	11,961.92	-441.70	-86.40	-440.19	12.00	11.64	62.18
12,000.00	7.52	354.59	11,986.78	-439.10	-86.70	-437.58	12.00	11.92	13.33
12,025.00	10.51	356.04	12,011.46	-435.20	-87.01	-433.68	12.00	11.97	5.78
12,050.00	13.50	356.85	12,035.91	-430.01	-87.33	-428.48	12.00	11.98	3.24
12,075.00	16.50	357.37	12,060.06	-423.55	-87.65	-422.02	12.00	11.99	2.08
12,100.00	19.50	357.73	12,083.83	-415.83	-87.98	-414.29	12.00	11.99	1.45
12,125.00	22.50	358.00	12,107.17	-406.88	-88.31	-405.34	12.00	11.99	1.08
12,150.00	25.49	358.21	12,130.01	-396.72	-88.65	-395.18	12.00	12.00	0.84
12,175.00	28.49	358.38	12,152.28	-385.38	-88.99	-383.83	12.00	12.00	0.67
12,200.00	31.49	358.52	12,173.93	-372.89	-89.33	-371.34	12.00	12.00	0.55
12,225.00	34.49	358.63	12,194.90	-359.28	-89.66	-357.72	12.00	12.00	0.47
12,250.00	37.49	358.73	12,215.12	-344.59	-90.00	-343.03	12.00	12.00	0.40
12,275.00	40.49	358.82	12,234.55	-328.87	-90.34	-327.31	12.00	12.00	0.35
12,300.00	43.49	358.90	12,253.13	-312.15	-90.67	-310.58	12.00	12.00	0.31
12,325.00	46.49	358.97	12,270.81	-294.48	-91.00	-292.91	12.00	12.00	0.28
12,350.00	49.49	359.03	12,287.54	-275.91	-91.32	-274.34	12.00	12.00	0.25
12,375.00	52.49	359.08	12,303.27	-256.49	-91.64	-254.91	12.00	12.00	0.23
12,400.00	55.49	359.14	12,317.97	-236.27	-91.96	-234.69	12.00	12.00	0.21
12,425.00	58.49	359.19	12,331.59	-215.31	-92.26	-213.73	12.00	12.00	0.20
12,450.00	61.49	359.23	12,344.09	-193.66	-92.56	-192.08	12.00	12.00	0.18
12,475.00	64.49	359.28	12,355.44	-171.40	-92.85	-169.81	12.00	12.00	0.17
12,499.81	67.47	359.32	12,365.54	-148.74	-93.13	-147.15	12.00	12.00	0.17
FTP (Caballo 23 Fed Com #701H)									
12,500.00	67.49	359.32	12,365.62	-148.56	-93.13	-146.98	12.00	12.00	0.16
12,525.00	70.49	359.36	12,374.58	-125.23	-93.40	-123.65	12.00	12.00	0.16
12,550.00	73.49	359.39	12,382.31	-101.46	-93.66	-99.87	12.00	12.00	0.15
12,575.00	76.49	359.43	12,388.78	-77.32	-93.91	-75.73	12.00	12.00	0.15
12,600.00	79.49	359.47	12,393.99	-52.87	-94.14	-51.28	12.00	12.00	0.14
12,625.00	82.49	359.50	12,397.90	-28.18	-94.37	-26.59	12.00	12.00	0.14
12,650.00	85.49	359.54	12,400.52	-3.32	-94.57	-1.74	12.00	12.00	0.14
12,675.00	88.49	359.57	12,401.83	21.64	-94.77	23.23	12.00	12.00	0.14
12,687.61	90.00	359.59	12,402.00	34.25	-94.86	35.83	12.00	12.00	0.14
12,700.00	90.00	359.59	12,402.00	46.64	-94.95	48.22	0.00	0.00	0.00
12,800.00	90.00	359.59	12,402.00	146.64	-95.66	148.22	0.00	0.00	0.00
12,900.00	90.00	359.59	12,402.00	246.63	-96.38	248.21	0.00	0.00	0.00
13,000.00	90.00	359.59	12,402.00	346.63	-97.09	348.21	0.00	0.00	0.00
13,100.00	90.00	359.59	12,402.00	446.63	-97.81	448.21	0.00	0.00	0.00



EOG Resources, Inc.

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

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

Well #701H
 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)
13,200.00	90.00	359.59	12,402.00	546.62	-98.53	548.20	0.00	0.00	0.00
13,300.00	90.00	359.59	12,402.00	646.62	-99.24	648.20	0.00	0.00	0.00
13,400.00	90.00	359.59	12,402.00	746.62	-99.96	748.19	0.00	0.00	0.00
13,500.00	90.00	359.59	12,402.00	846.62	-100.67	848.19	0.00	0.00	0.00
13,600.00	90.00	359.59	12,402.00	946.61	-101.39	948.18	0.00	0.00	0.00
13,700.00	90.00	359.59	12,402.00	1,046.61	-102.10	1,048.18	0.00	0.00	0.00
13,800.00	90.00	359.59	12,402.00	1,146.61	-102.82	1,148.17	0.00	0.00	0.00
13,900.00	90.00	359.59	12,402.00	1,246.61	-103.53	1,248.17	0.00	0.00	0.00
14,000.00	90.00	359.59	12,402.00	1,346.60	-104.25	1,348.16	0.00	0.00	0.00
14,100.00	90.00	359.59	12,402.00	1,446.60	-104.97	1,448.16	0.00	0.00	0.00
14,200.00	90.00	359.59	12,402.00	1,546.60	-105.68	1,548.15	0.00	0.00	0.00
14,300.00	90.00	359.59	12,402.00	1,646.60	-106.40	1,648.15	0.00	0.00	0.00
14,400.00	90.00	359.59	12,402.00	1,746.59	-107.11	1,748.15	0.00	0.00	0.00
14,500.00	90.00	359.59	12,402.00	1,846.59	-107.83	1,848.14	0.00	0.00	0.00
14,600.00	90.00	359.59	12,402.00	1,946.59	-108.54	1,948.14	0.00	0.00	0.00
14,700.00	90.00	359.59	12,402.00	2,046.59	-109.26	2,048.13	0.00	0.00	0.00
14,800.00	90.00	359.59	12,402.00	2,146.58	-109.97	2,148.13	0.00	0.00	0.00
14,900.00	90.00	359.59	12,402.00	2,246.58	-110.69	2,248.12	0.00	0.00	0.00
15,000.00	90.00	359.59	12,402.00	2,346.58	-111.41	2,348.12	0.00	0.00	0.00
15,100.00	90.00	359.59	12,402.00	2,446.58	-112.12	2,448.11	0.00	0.00	0.00
15,200.00	90.00	359.59	12,402.00	2,546.57	-112.84	2,548.11	0.00	0.00	0.00
15,300.00	90.00	359.59	12,402.00	2,646.57	-113.55	2,648.10	0.00	0.00	0.00
15,400.00	90.00	359.59	12,402.00	2,746.57	-114.27	2,748.10	0.00	0.00	0.00
15,500.00	90.00	359.59	12,402.00	2,846.57	-114.98	2,848.09	0.00	0.00	0.00
15,600.00	90.00	359.59	12,402.00	2,946.56	-115.70	2,948.09	0.00	0.00	0.00
15,700.00	90.00	359.59	12,402.00	3,046.56	-116.41	3,048.08	0.00	0.00	0.00
15,800.00	90.00	359.59	12,402.00	3,146.56	-117.13	3,148.08	0.00	0.00	0.00
15,900.00	90.00	359.59	12,402.00	3,246.56	-117.85	3,248.08	0.00	0.00	0.00
16,000.00	90.00	359.59	12,402.00	3,346.55	-118.56	3,348.07	0.00	0.00	0.00
16,100.00	90.00	359.59	12,402.00	3,446.55	-119.28	3,448.07	0.00	0.00	0.00
16,200.00	90.00	359.59	12,402.00	3,546.55	-119.99	3,548.06	0.00	0.00	0.00
16,300.00	90.00	359.59	12,402.00	3,646.55	-120.71	3,648.06	0.00	0.00	0.00
16,400.00	90.00	359.59	12,402.00	3,746.54	-121.42	3,748.05	0.00	0.00	0.00
16,500.00	90.00	359.59	12,402.00	3,846.54	-122.14	3,848.05	0.00	0.00	0.00
16,600.00	90.00	359.59	12,402.00	3,946.54	-122.86	3,948.04	0.00	0.00	0.00
16,700.00	90.00	359.59	12,402.00	4,046.54	-123.57	4,048.04	0.00	0.00	0.00
16,800.00	90.00	359.59	12,402.00	4,146.53	-124.29	4,148.03	0.00	0.00	0.00
16,900.00	90.00	359.59	12,402.00	4,246.53	-125.00	4,248.03	0.00	0.00	0.00
17,000.00	90.00	359.59	12,402.00	4,346.53	-125.72	4,348.02	0.00	0.00	0.00
17,100.00	90.00	359.59	12,402.00	4,446.53	-126.43	4,448.02	0.00	0.00	0.00
17,200.00	90.00	359.59	12,402.00	4,546.52	-127.15	4,548.02	0.00	0.00	0.00
17,300.00	90.00	359.59	12,402.00	4,646.52	-127.86	4,648.01	0.00	0.00	0.00
17,400.00	90.00	359.59	12,402.00	4,746.52	-128.58	4,748.01	0.00	0.00	0.00
17,500.00	90.00	359.59	12,402.00	4,846.51	-129.30	4,848.00	0.00	0.00	0.00
17,600.00	90.00	359.59	12,402.00	4,946.51	-130.01	4,948.00	0.00	0.00	0.00
17,700.00	90.00	359.59	12,402.00	5,046.51	-130.73	5,047.99	0.00	0.00	0.00
17,800.00	90.00	359.59	12,402.00	5,146.51	-131.44	5,147.99	0.00	0.00	0.00
17,900.00	90.00	359.59	12,402.00	5,246.50	-132.16	5,247.98	0.00	0.00	0.00
18,000.00	90.00	359.59	12,402.00	5,346.50	-132.87	5,347.98	0.00	0.00	0.00
18,100.00	90.00	359.59	12,402.00	5,446.50	-133.59	5,447.97	0.00	0.00	0.00
18,200.00	90.00	359.59	12,402.00	5,546.50	-134.30	5,547.97	0.00	0.00	0.00
18,300.00	90.00	359.59	12,402.00	5,646.49	-135.02	5,647.96	0.00	0.00	0.00
18,400.00	90.00	359.59	12,402.00	5,746.49	-135.74	5,747.96	0.00	0.00	0.00
18,500.00	90.00	359.59	12,402.00	5,846.49	-136.45	5,847.96	0.00	0.00	0.00



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 Design: Plan #0.1

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 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	5,946.49	-137.17	5,947.95	0.00	0.00	0.00
18,700.00	90.00	359.59	12,402.00	6,046.48	-137.88	6,047.95	0.00	0.00	0.00
18,800.00	90.00	359.59	12,402.00	6,146.48	-138.60	6,147.94	0.00	0.00	0.00
18,900.00	90.00	359.59	12,402.00	6,246.48	-139.31	6,247.94	0.00	0.00	0.00
19,000.00	90.00	359.59	12,402.00	6,346.48	-140.03	6,347.93	0.00	0.00	0.00
19,100.00	90.00	359.59	12,402.00	6,446.47	-140.74	6,447.93	0.00	0.00	0.00
19,200.00	90.00	359.59	12,402.00	6,546.47	-141.46	6,547.92	0.00	0.00	0.00
19,300.00	90.00	359.59	12,402.00	6,646.47	-142.18	6,647.92	0.00	0.00	0.00
19,400.00	90.00	359.59	12,402.00	6,746.47	-142.89	6,747.91	0.00	0.00	0.00
19,500.00	90.00	359.59	12,402.00	6,846.46	-143.61	6,847.91	0.00	0.00	0.00
19,600.00	90.00	359.59	12,402.00	6,946.46	-144.32	6,947.90	0.00	0.00	0.00
19,700.00	90.00	359.59	12,402.00	7,046.46	-145.04	7,047.90	0.00	0.00	0.00
19,800.00	90.00	359.59	12,402.00	7,146.46	-145.75	7,147.90	0.00	0.00	0.00
19,900.00	90.00	359.59	12,402.00	7,246.45	-146.47	7,247.89	0.00	0.00	0.00
20,000.00	90.00	359.59	12,402.00	7,346.45	-147.18	7,347.89	0.00	0.00	0.00
20,100.00	90.00	359.59	12,402.00	7,446.45	-147.90	7,447.88	0.00	0.00	0.00
20,200.00	90.00	359.59	12,402.00	7,546.45	-148.62	7,547.88	0.00	0.00	0.00
20,300.00	90.00	359.59	12,402.00	7,646.44	-149.33	7,647.87	0.00	0.00	0.00
20,400.00	90.00	359.59	12,402.00	7,746.44	-150.05	7,747.87	0.00	0.00	0.00
20,500.00	90.00	359.59	12,402.00	7,846.44	-150.76	7,847.86	0.00	0.00	0.00
20,600.00	90.00	359.59	12,402.00	7,946.44	-151.48	7,947.86	0.00	0.00	0.00
20,700.00	90.00	359.59	12,402.00	8,046.43	-152.19	8,047.85	0.00	0.00	0.00
20,800.00	90.00	359.59	12,402.00	8,146.43	-152.91	8,147.85	0.00	0.00	0.00
20,900.00	90.00	359.59	12,402.00	8,246.43	-153.63	8,247.84	0.00	0.00	0.00
21,000.00	90.00	359.59	12,402.00	8,346.43	-154.34	8,347.84	0.00	0.00	0.00
21,100.00	90.00	359.59	12,402.00	8,446.42	-155.06	8,447.84	0.00	0.00	0.00
21,200.00	90.00	359.59	12,402.00	8,546.42	-155.77	8,547.83	0.00	0.00	0.00
21,300.00	90.00	359.59	12,402.00	8,646.42	-156.49	8,647.83	0.00	0.00	0.00
21,400.00	90.00	359.59	12,402.00	8,746.42	-157.20	8,747.82	0.00	0.00	0.00
21,500.00	90.00	359.59	12,402.00	8,846.41	-157.92	8,847.82	0.00	0.00	0.00
21,600.00	90.00	359.59	12,402.00	8,946.41	-158.63	8,947.81	0.00	0.00	0.00
21,700.00	90.00	359.59	12,402.00	9,046.41	-159.35	9,047.81	0.00	0.00	0.00
21,800.00	90.00	359.59	12,402.00	9,146.40	-160.07	9,147.80	0.00	0.00	0.00
21,900.00	90.00	359.59	12,402.00	9,246.40	-160.78	9,247.80	0.00	0.00	0.00
22,000.00	90.00	359.59	12,402.00	9,346.40	-161.50	9,347.79	0.00	0.00	0.00
22,100.00	90.00	359.59	12,402.00	9,446.40	-162.21	9,447.79	0.00	0.00	0.00
22,200.00	90.00	359.59	12,402.00	9,546.39	-162.93	9,547.78	0.00	0.00	0.00
22,300.00	90.00	359.59	12,402.00	9,646.39	-163.64	9,647.78	0.00	0.00	0.00
22,400.00	90.00	359.59	12,402.00	9,746.39	-164.36	9,747.78	0.00	0.00	0.00
22,489.61	90.00	359.59	12,402.00	9,836.00	-165.00	9,837.38	0.00	0.00	0.00

PBHL (Caballo 23 Fed Com #701H)



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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 (Caballo 23 Fed C	0.00	0.00	12,402.00	9,836.00	-165.00	414,521.00	783,621.00	32.13717677	-103.55058658
- plan hits target center									
- Point									
FTP (Caballo 23 Fed Co	0.00	0.00	12,402.00	-165.00	-95.00	404,520.00	783,691.00	32.10968569	-103.55059516
- plan misses target center by 39.96usft at 12499.81usft MD (12365.54 TVD, -148.74 N, -93.13 E)									
- Point									