

Results of Directional Survey

API number:	30-025-40052			
OGRID:		Operator:	EOG RESOURCES INC	
		Property:	CABALLO 23 FEDERAL	# 3H

surface	ULSTR:	B	23	T 25S	R 33E
				58 FNL	2200 FEL

BH Loc	ULSTR:	O	23	T 25S	R 33E
14045	MD	9439.5	TVD	360 FSL	2203 FEL
				4920 FNL	

Top Perf/OH	ULSTR:	B	23	T 25S	R 33E
9738	MD	9450.6	TVD	617 FNL	2201 FEL

Bot Perf/OH	ULSTR:	O	23	T 25S	R 33E
14000	MD	9439.6	TVD	405 FSL	2204 FEL
				4875 FNL	

	MD	N/S	E/W	VD
	9719	-539.60	-0.24	9450.5
TOP PERFS/OH	9738	-558.60	-0.57	9450.56
	9750	-570.60	-0.78	9450.59
	13975	-4792.30	-4.21	9439.59
BOT PERFS/OH	14000	-4817.29	-3.64	9439.55
	14045	-4862.28	-2.62	9439.47

NEXT TO LAST	13975	-4792.30	-4.21	9439.59
LAST READING	14045	-4862.28	-2.62	9439.47
TD	14045	-4862.28	-2.62	9439.47

Surface Location	58	FN	2200	FE
Projected BHL	4920	FN	2203	FE
Location of				
Top Perfs/OH	617	FN	2201	FE
Bottom Perfs/OH	4875	FN	2204	FE

SUMMARY of Subsurface Locations

Surface Location	B-23-25S-33E	58	FN	2200	FE	Vert. Depth
Top Perfs/OH	B-23-25S-33E	617	FN	2201	FE	9450.56
Bottom Perfs/OH	O-23-25S-33E	4875	FN	2204	FE	9439.55
Projected TD	O-23-25S-33E	4920	FN	2203	FE	9439.47

EOG Resources

Lea County, NM (Nad27)

Caballo 23 Federal

Caballo 23 Fed. 3H

Wellbore #1

Design: Wellbore #1

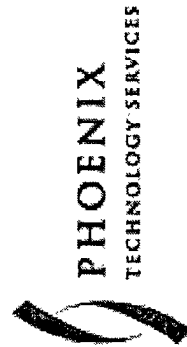
EOG Resources

21 October, 2011

HOBBS OCD

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SUR: B-23-25s-33e, 58/N & 2200/E
BHL: O-23-25s-33e, 4920/N & 2203/E
API # 30-025-40052

Phoenix Technology Services EOG Resources



Company: EOG Resources	Local Co-ordinate Reference: Well Caballo 23 Fed. 3H
Project: Lea County, NM (Nad27)	TVD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)
Site: Caballo 23 Federal	MD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)
Well: Caballo 23 Fed 3H	North Reference: Grid
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Wellbore #1	Database: GCR DB v5000

Project Lea County, NM (Nad27)	System Datum: Mean Sea Level
Map System: US State Plane 1927 (Exact solution)	
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: New Mexico East 3001	

Site Caballo 23 Federal	Northings: 409,417.30 usft	Latitude: 32° 7' 23.191 N
Site Position:	Eastings: 746,110.10 usft	Longitude: 103° 32' 18.108 W
From:	Slot Radius: 13-3/16 "	Grid Convergence: 0.42°
Position Uncertainty: 0.00 usft		

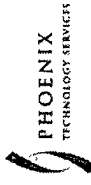
Well Caballo 23 Fed 3H	Northings: 409,373.30 usft	Latitude: 32° 7' 22.821 N
Well Position	Eastings: 745,220.40 usft	Longitude: 103° 32' 28.457 W
Position Uncertainty	Wellhead Elevation: usft	Ground Level: 3,347.99 usft

Wellbore Wellbore #1	Model Name IGRF2010_14	Sample Date 9/8/2011	Declination (°)	Dip Angle (°)	Field Strength (nT)
			7.54	60.09	48,536

Design Wellbore #1	Version: 1.0	Phase: ACTUAL	Tie On Depth: 0.00	Direction (°)
Audit Notes:				
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	179.56

Phoenix Technology Services

EOG Resources



Company: EOG Resources
 Project: Lea County, NM (Nad27)
 Site: Caballo 23 Federal
 Well: Caballo 23 Fed. 3H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Caballo 23 Fed. 3H
 TVD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
 MD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: GCR DB-v5000

Survey Program	From (usft)	To (usft)	Date	Survey (Wellbore)	Tool Name	Description
	100.00	1,096.00	10/21/2011	Gyro Surveys (Wellbore #1)	MWD	MWD - Standard
	1,185.00	14,045.00		Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	0.00	0.00	0.00	-3,377.99	0.00	0.00	0.00	0.00	0.00	409,373.30	745,220.40
	100.00	0.74	224.19	-3,278.00	100.00	-0.46	-0.46	-0.45	0.74	409,372.84	745,219.95
	200.00	1.01	253.17	-3,178.01	199.99	-1.18	-1.18	-1.74	1.17	409,372.12	745,218.66
	300.00	0.88	236.37	-3,078.02	299.97	-1.86	-1.86	-3.23	1.84	409,371.44	745,217.17
	400.00	0.83	235.59	-2,978.03	399.96	-2.70	-2.70	-4.46	2.66	409,370.60	745,215.94
	500.00	0.83	235.73	-2,878.04	499.95	-3.51	-3.51	-5.66	3.47	409,369.79	745,214.74
	600.00	0.95	232.79	-2,778.05	599.94	-4.42	-4.42	-6.92	4.37	409,368.88	745,213.48
	700.00	0.88	228.63	-2,678.07	699.93	-5.43	-5.43	-8.16	5.37	409,367.87	745,212.24
	800.00	0.81	224.68	-2,578.08	799.92	-6.44	-6.44	-9.23	6.37	409,366.86	745,211.17
	900.00	0.68	216.78	-2,478.09	899.91	-7.42	-7.42	-10.08	7.34	409,365.88	745,210.32
	1,000.00	0.86	224.61	-2,378.10	999.90	-8.43	-8.43	-10.96	8.34	409,364.87	745,209.44
	1,096.00	0.69	216.99	-2,282.10	1,095.89	-9.40	-9.40	-11.82	9.31	409,363.90	745,208.58
Last Gyro Survey - Last Gyro Survey											
	1,185.00	1.00	228.20	-2,193.11	1,184.88	-10.35	-10.35	-12.72	10.25	409,362.95	745,207.68
First Phoenix MWD Survey											
	1,369.00	1.00	231.10	-2,009.14	1,368.85	-12.43	-12.43	-15.16	12.31	409,360.87	745,205.24
	1,553.00	1.40	230.20	-1,825.18	1,552.81	-14.87	-14.87	-18.14	14.74	409,358.43	745,202.26
	1,744.00	0.80	210.90	-1,634.22	1,743.77	-17.51	-17.51	-20.62	17.35	409,355.79	745,199.78
	1,936.00	1.00	208.60	-1,442.24	1,935.75	-20.13	-20.13	-22.11	19.96	409,353.17	745,198.29
	2,127.00	0.60	122.20	-1,251.26	2,126.74	-22.13	-22.13	-22.06	21.96	409,351.17	745,198.34
	2,319.00	0.70	140.40	-1,059.27	2,318.73	-23.57	-23.57	-20.46	23.41	409,349.73	745,199.94
	2,510.00	1.10	120.20	-868.29	2,509.70	-25.39	-25.39	-18.13	25.25	409,347.91	745,202.27

Phoenix Technology Services

EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Caballo 23 Federal
Well: Caballo 23 Fed. 3H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference:
TVD Reference: Well Caballo 23 Fed. 3H
MD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
North Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
Survey Calculation Method: Grid
Database: Minimum Curvature
 GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastng (usft)
	2,701.00	0.90	107.80	-677.32	2,700.67	-26.77	-15.12	26.65	0.15	409,346.53	745,205.28
	2,892.00	1.60	108.00	-486.37	2,891.63	-28.05	-11.16	27.97	0.37	409,345.25	745,209.24
	3,084.00	1.30	82.30	-294.43	3,083.57	-28.59	-6.45	28.54	0.37	409,344.71	745,213.95
	3,276.00	1.80	64.20	-102.50	3,275.50	-26.99	-1.58	26.97	0.36	409,346.31	745,218.82
	3,467.00	0.50	90.50	88.46	3,466.46	-25.69	1.96	25.70	0.72	409,347.61	745,222.36
	3,658.00	0.70	48.20	279.45	3,657.45	-24.92	3.66	24.94	0.25	409,348.38	745,224.06
	3,850.00	0.70	53.70	471.44	3,849.43	-23.44	5.48	23.48	0.03	409,349.86	745,225.88
	4,040.00	0.10	19.50	661.43	4,039.43	-22.60	6.47	22.65	0.33	409,350.70	745,226.87
	4,230.00	1.40	210.30	851.41	4,229.41	-24.45	5.36	24.49	0.79	409,348.85	745,225.76
	4,422.00	0.80	122.90	1,043.39	4,421.38	-27.20	5.30	27.24	0.82	409,346.10	745,225.70
	4,613.00	0.80	82.60	1,234.37	4,612.37	-27.75	7.74	27.81	0.29	409,345.55	745,228.14
	4,805.00	1.10	105.80	1,426.35	4,804.34	-28.08	10.84	28.16	0.25	409,345.22	745,231.24
	4,940.00	0.50	302.20	1,561.34	4,939.33	-28.12	11.59	28.21	1.17	409,345.18	745,231.99
	5,091.00	0.50	292.80	1,712.33	5,090.33	-27.51	10.43	27.59	0.05	409,345.79	745,230.83
	5,282.00	0.50	307.90	1,903.33	5,281.32	-26.68	9.00	26.75	0.07	409,346.62	745,229.40
	5,475.00	0.40	302.00	2,096.32	5,474.31	-25.80	7.76	25.86	0.06	409,347.50	745,228.16
	5,666.00	0.40	312.40	2,287.32	5,665.31	-25.00	6.71	25.05	0.04	409,348.30	745,227.11
	5,857.00	0.40	331.50	2,478.31	5,856.30	-23.97	5.90	24.01	0.07	409,349.33	745,226.30
	6,049.00	0.40	346.20	2,670.31	6,048.30	-22.73	5.42	22.77	0.05	409,350.57	745,225.82
	6,240.00	0.40	300.90	2,861.30	6,239.30	-21.74	4.69	21.77	0.16	409,351.56	745,225.09
	6,432.00	0.40	291.20	3,053.30	6,431.29	-21.15	3.49	21.18	0.04	409,352.15	745,223.89
	6,623.00	0.40	285.20	3,244.29	6,622.29	-20.73	2.22	20.75	0.02	409,352.57	745,222.62
	6,814.00	0.40	274.70	3,435.29	6,813.28	-20.50	0.91	20.51	0.04	409,352.80	745,221.31
	7,006.00	0.30	250.80	3,627.29	7,005.28	-20.61	-0.23	20.61	0.09	409,352.69	745,220.17
	7,197.00	0.10	238.90	3,818.28	7,196.28	-20.87	-0.85	20.86	0.11	409,352.43	745,219.55
	7,387.00	0.40	230.40	4,008.28	7,386.28	-21.37	-1.50	21.36	0.16	409,351.93	745,218.90
	7,579.00	0.40	231.90	4,200.28	7,578.27	-22.21	-2.54	22.19	0.01	409,351.09	745,217.86

Phoenix Technology Services EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3377.99usft (Original Well Elev + 30' KB Cacti)
Well:	Caballo 23 Fed. 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	North (usft)	East (usft)
	7,770.00		0.90	4,391.26	7,769.26	-23.93	-3.80	23.90	0.29	409,349.37	745,216.60
	7,962.00	0.90	222.10	4,583.24	7,961.23	-26.37	-5.55	26.32	0.10	409,346.93	745,214.85
	8,152.00	1.10	219.80	4,773.21	8,151.21	-28.88	-7.72	28.82	0.11	409,344.42	745,212.68
	8,344.00	1.00	213.60	4,965.18	8,343.17	-31.69	-9.82	31.61	0.08	409,341.61	745,210.58
	8,535.00	0.80	207.50	5,156.16	8,534.15	-34.26	-11.36	34.17	0.12	409,339.04	745,209.04
	8,725.00	1.20	219.90	5,346.13	8,724.12	-36.96	-13.25	36.86	0.24	409,336.34	745,207.15
	8,854.00	1.40	205.20	5,475.09	8,853.09	-39.42	-14.79	39.31	0.30	409,333.88	745,205.61
	8,909.00	1.50	218.80	5,530.08	8,908.07	-40.59	-15.53	40.47	0.65	409,332.71	745,204.87
	8,940.00	4.10	192.80	5,561.04	8,939.03	-41.99	-16.03	41.87	9.13	409,331.31	745,204.37
	8,972.00	7.80	186.30	5,592.86	8,970.85	-45.26	-16.52	45.14	11.73	409,328.04	745,203.88
	9,004.00	11.50	183.30	5,624.40	9,002.40	-50.61	-16.94	50.48	11.66	409,322.69	745,203.46
	9,036.00	15.10	180.40	5,655.54	9,033.53	-57.96	-17.15	57.83	11.44	409,315.34	745,203.25
	9,068.00	18.10	179.10	5,686.20	9,064.20	-67.10	-17.10	66.97	9.45	409,306.20	745,203.30
	9,099.00	20.70	178.10	5,715.44	9,093.43	-77.40	-16.85	77.27	8.45	409,295.90	745,203.55
	9,131.00	23.70	178.10	5,745.06	9,123.06	-89.48	-16.45	89.35	9.37	409,283.82	745,203.95
	9,163.00	26.90	178.00	5,773.99	9,151.98	-103.15	-15.98	103.02	10.00	409,270.15	745,204.42
	9,195.00	29.80	178.10	5,802.15	9,180.14	-118.33	-15.46	118.21	9.06	409,254.97	745,204.94
	9,227.00	33.30	177.90	5,829.42	9,207.41	-135.06	-14.88	134.94	10.94	409,238.24	745,205.52
	9,258.00	36.70	177.40	5,854.81	9,232.80	-152.82	-14.14	152.71	11.01	409,220.48	745,206.26
	9,290.00	38.80	176.70	5,880.11	9,258.10	-172.39	-13.13	172.28	6.70	409,200.91	745,207.27
	9,322.00	41.00	176.60	5,904.65	9,282.65	-192.88	-11.93	192.78	6.88	409,180.42	745,208.47
	9,353.00	44.40	177.30	5,927.43	9,305.43	-213.87	-10.82	213.78	11.07	409,159.43	745,209.58
	9,385.00	48.00	178.00	5,949.58	9,327.57	-236.94	-9.88	236.86	11.36	409,136.36	745,210.52
	9,417.00	51.90	178.20	5,970.17	9,348.16	-261.42	-9.07	261.34	12.20	409,111.88	745,211.33
	9,449.00	55.10	178.00	5,989.20	9,367.19	-287.12	-8.21	287.05	10.01	409,086.18	745,212.19
	9,480.00	58.80	177.90	6,006.10	9,384.09	-313.09	-7.28	313.02	11.94	409,060.21	745,213.12
	9,512.00	62.90	177.60	6,021.68	9,399.68	-341.01	-6.18	340.95	12.84	409,032.29	745,214.22

Phoenix Technology Services

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 Well: Caballo 23 Fed. 3H
 Wellbore: Wellbore #1
 Design: Wellbore #1

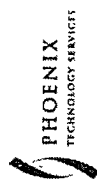
Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:
 Database:

Well Caballo 23 Fed. 3H
 WELL @ 3377 99usft (Original Well Elev + 30' KB Cacti
 WELL @ 3377 99usft (Original Well Elev + 30' KB Cacti
 Grid
 Minimum Curvature
 GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%100usft)	North (usft)	East (usft)
	9,544.00	66.40	177.30	6,035.38	9,413.38	-369.89	-4.90	369.84	10.97	409,003.41	745,215.50
	9,575.00	70.10	177.40	6,046.87	9,424.86	-398.65	-3.57	398.61	11.94	408,974.65	745,216.83
	9,607.00	74.40	177.40	6,056.62	9,434.62	-429.09	-2.18	429.06	13.44	408,944.21	745,218.22
	9,639.00	78.90	178.10	6,064.01	9,442.00	-460.19	-0.96	460.17	14.22	408,913.11	745,219.44
	9,671.00	82.40	179.10	6,069.21	9,447.20	-491.75	-0.19	491.74	11.36	408,881.55	745,220.21
	9,719.00	89.70	181.00	6,072.51	9,450.50	-539.60	-0.24	539.58	15.71	408,833.70	745,220.16
	9,750.00	90.00	181.00	6,072.59	9,450.59	-570.60	-0.78	570.57	0.97	408,802.70	745,219.62
	9,782.00	90.10	181.10	6,072.56	9,450.56	-602.59	-1.37	602.56	0.44	408,770.71	745,219.03
	9,878.00	89.10	181.00	6,073.24	9,451.23	-698.57	-3.13	698.53	1.05	408,674.73	745,217.27
	9,973.00	88.90	181.40	6,074.89	9,452.89	-793.54	-5.11	793.47	0.47	408,579.76	745,215.29
	10,068.00	90.80	179.90	6,075.14	9,453.14	-888.52	-6.19	888.45	2.55	408,484.78	745,214.21
	10,164.00	89.40	179.40	6,074.97	9,452.97	-984.52	-5.61	984.45	1.55	408,388.78	745,214.79
	10,259.00	90.20	178.80	6,075.31	9,453.30	-1,079.51	-4.11	1,079.44	1.05	408,293.79	745,216.29
	10,355.00	90.60	178.70	6,074.64	9,452.63	-1,175.48	-2.02	1,175.43	0.43	408,197.82	745,218.38
	10,450.00	92.00	178.80	6,072.48	9,450.47	-1,270.43	0.05	1,270.39	1.48	408,102.87	745,220.45
	10,546.00	91.80	178.10	6,069.30	9,447.29	-1,366.34	2.65	1,366.32	0.76	408,006.96	745,223.05
	10,641.00	92.20	177.80	6,065.98	9,443.98	-1,461.22	6.04	1,461.23	0.53	407,912.08	745,226.44
	10,736.00	90.90	177.40	6,063.41	9,441.41	-1,556.10	10.02	1,556.13	1.43	407,817.20	745,230.42
	10,831.00	90.80	177.10	6,062.00	9,440.00	-1,650.98	14.58	1,651.05	0.33	407,722.32	745,234.98
	10,926.00	90.90	179.20	6,060.59	9,438.59	-1,745.92	17.64	1,746.00	2.21	407,627.38	745,238.04
	11,021.00	91.10	179.80	6,058.94	9,436.93	-1,840.90	18.47	1,840.99	0.67	407,532.40	745,238.87
	11,117.00	92.70	180.60	6,055.75	9,433.75	-1,936.84	18.14	1,936.92	1.86	407,436.46	745,238.54
	11,212.00	90.80	180.20	6,052.85	9,430.84	-2,031.79	17.48	2,031.86	2.04	407,341.51	745,237.88
	11,308.00	91.10	180.00	6,051.26	9,429.25	-2,127.78	17.31	2,127.85	0.38	407,245.52	745,237.71
	11,403.00	88.90	178.50	6,051.26	9,429.25	-2,222.76	18.55	2,222.84	2.80	407,150.54	745,238.95
	11,499.00	88.40	181.50	6,053.52	9,431.52	-2,318.72	18.55	2,318.80	3.17	407,054.58	745,238.95
	11,594.00	89.30	178.90	6,055.43	9,433.42	-2,413.69	18.22	2,413.76	2.90	406,959.61	745,238.62

Phoenix Technology Services

EOG Resources



Company: EOG Resources
Project: Lea County, NM (Nad27)
Site: Caballo 23 Federal
Well: Caballo 23 Fed. 3H
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Caballo 23 Fed. 3H

TVD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)

MD Reference: WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	11,690.00	90.30	179.90	6,055.76	9,433.76	-2,509.69	19.23	2,509.76	1.47	406,863.61	745,239.63
	11,785.00	89.30	179.50	6,056.10	9,434.09	-2,604.68	19.72	2,604.76	1.13	406,768.62	745,240.12
	11,881.00	87.30	176.90	6,058.94	9,436.94	-2,700.58	22.74	2,700.67	3.42	406,672.72	745,243.14
	11,976.00	89.70	178.10	6,061.43	9,439.42	-2,795.45	26.88	2,795.57	2.82	406,577.85	745,247.28
	12,071.00	89.50	178.10	6,062.09	9,440.09	-2,890.39	30.03	2,890.54	0.21	406,482.91	745,250.43
	12,166.00	90.60	177.70	6,062.01	9,440.00	-2,985.33	33.51	2,985.50	1.23	406,387.97	745,253.91
	12,261.00	90.40	176.80	6,061.18	9,439.18	-3,080.21	38.07	3,080.42	0.97	406,293.09	745,258.47
	12,356.00	89.80	180.90	6,061.02	9,439.01	-3,175.17	39.97	3,175.39	4.36	406,198.13	745,260.37
	12,452.00	89.80	182.70	6,061.35	9,439.34	-3,271.12	36.96	3,271.31	1.87	406,102.18	745,257.36
	12,547.00	90.90	184.80	6,060.77	9,438.76	-3,365.91	30.74	3,366.05	2.50	406,007.39	745,251.14
	12,643.00	90.50	185.10	6,059.60	9,437.59	-3,461.54	22.46	3,461.61	0.52	405,911.76	745,242.86
	12,738.00	89.90	185.70	6,059.27	9,437.26	-3,556.12	13.52	3,556.12	0.89	405,817.18	745,233.92
	12,833.00	90.70	183.20	6,058.77	9,436.76	-3,650.83	6.15	3,650.76	2.76	405,722.47	745,226.55
	12,928.00	91.50	184.30	6,056.95	9,434.94	-3,745.60	-0.06	3,745.49	1.43	405,627.70	745,220.34
	13,023.00	90.40	182.70	6,055.37	9,433.36	-3,840.41	-5.86	3,840.25	2.04	405,532.89	745,214.54
	13,118.00	89.50	180.00	6,055.45	9,433.45	-3,935.37	-8.10	3,935.19	3.00	405,437.93	745,212.30
	13,213.00	89.80	180.30	6,056.03	9,434.03	-4,030.37	-8.35	4,030.19	0.45	405,342.93	745,212.05
	13,309.00	90.00	179.80	6,056.20	9,434.19	-4,126.37	-8.43	4,126.18	0.56	405,248.93	745,211.97
	13,404.00	88.80	179.30	6,057.20	9,435.19	-4,221.36	-7.68	4,221.17	1.37	405,151.94	745,212.72
	13,499.00	90.00	179.50	6,058.19	9,436.18	-4,316.35	-6.69	4,316.17	1.28	405,056.95	745,213.71
	13,595.00	89.60	180.30	6,058.53	9,436.52	-4,412.34	-6.52	4,412.16	0.93	404,960.96	745,213.88
	13,690.00	88.40	179.30	6,060.18	9,438.18	-4,507.33	-6.19	4,507.15	1.64	404,865.97	745,214.21
	13,785.00	89.70	180.10	6,061.76	9,439.75	-4,602.31	-5.69	4,602.13	1.61	404,770.99	745,214.71
	13,881.00	90.20	179.70	6,061.84	9,439.84	-4,698.31	-5.53	4,698.13	0.67	404,674.99	745,214.87
	13,975.00	90.10	178.70	6,061.60	9,439.59	-4,792.30	-4.21	4,792.12	1.07	404,581.00	745,216.19

Last Phoenix MWD Survey

Phoenix Technology Services

EOG Resources



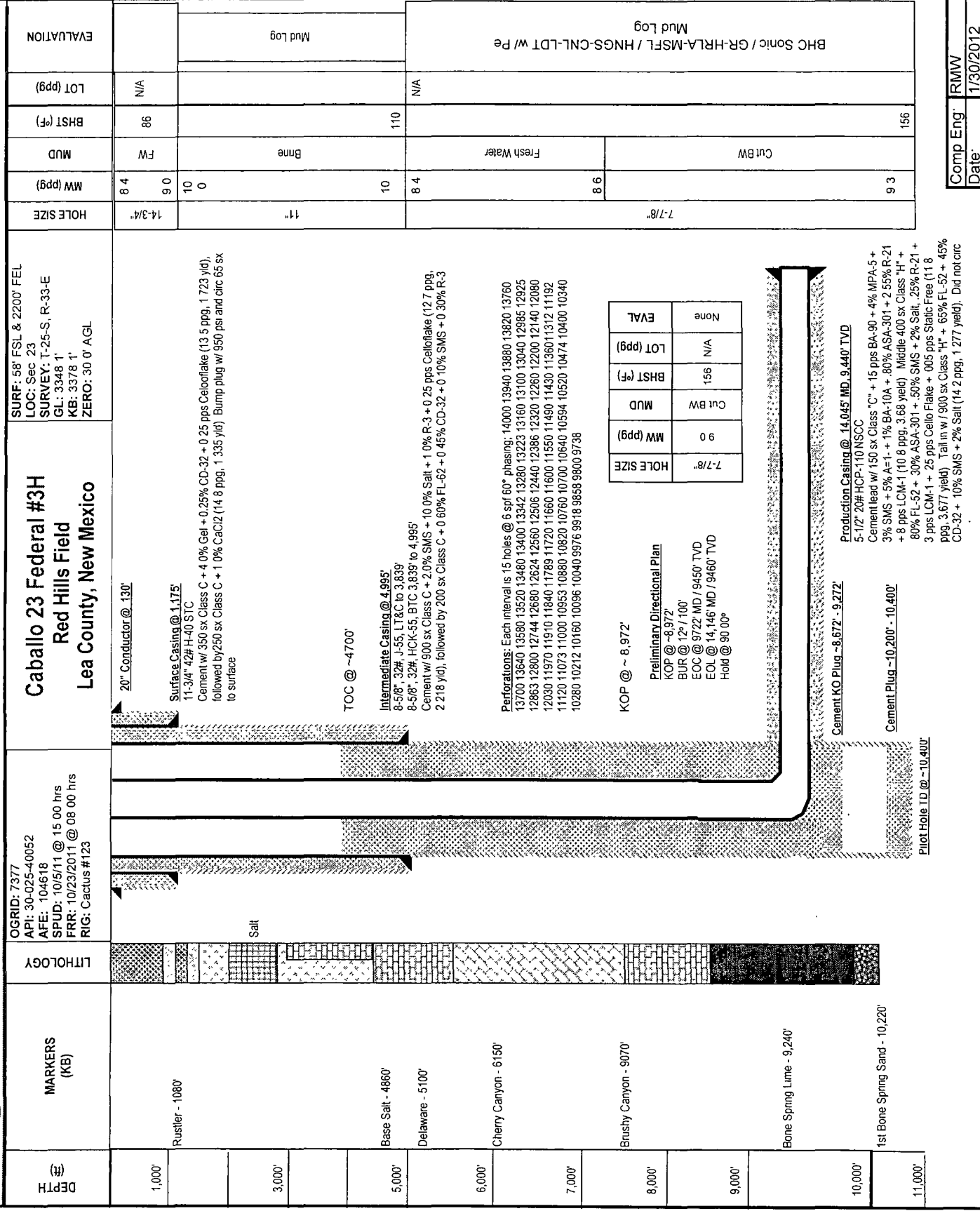
Company:	EOG Resources	Local Co-ordinate Reference:	Well Caballo 23 Fed. 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)
Site:	Caballo 23 Federal	MD Reference:	WELL @ 3377.99usft (Original Well Elev + 30' KB Cact)
Well:	Caballo 23 Fed 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDSS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
	14,045.00	90.10	178.70	6,061.47	9,439.47	-4,862.28	-2.62	4,862.12	0.00	404,511.02	745,217.78
Projection To TD											

Design Annotations				Local Coordinates		Comment	
Measured Depth (usft)	Vertical Depth (usft)	+N-S (usft)	-E/W (usft)				
1,096.00	1,095.89	-9.40	-11.82	Last Gyro Survey			
1,096.00	1,095.89	-9.40	-11.82	Last Gyro Survey			
1,185.00	1,184.88	-10.35	-12.72	First Phoenix MWD Survey			
13,975.00	9,439.59	-4,792.30	-4.21	Last Phoenix MWD Survey			
14,045.00	9,439.47	-4,862.28	-2.62	Projection To TD			

Checked By _____	Approved By _____	Date: _____
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CURRENT WELL SKETCH



Comp Eng	RMW
Date	1/30/2012