

Results of Directional Survey

API number:	30-025-40188		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	DIAMOND 8 FEDERAL COM # 3H

surface	ULSTR:	C	08	T 25S	R 34E
				330 FNL	1750 FWL

BH Loc	ULSTR:	N	08	T 25S	R 34E
13840 MD		9491.8	TVD	375 FSL	2261 FWL
				4905 FNL	

Top Perf/OH	ULSTR:	C	08	T 25S	R 34E
9695 MD		9425.6	TVD	799 FNL	2012 FWL

Bot Perf/OH	ULSTR:	N	08	T 25S	R 34E
13780 MD		9491.0	TVD	435 FSL	2263 FWL
				4845 FNL	

	MD	N/S	E/W	VD
	9690	-464.87	259.70	9425.31
TOP PERFS/OH	9695	-469.46	261.68	9425.56
	9753	-522.66	284.59	9428.49
	13736	-4470.90	514.18	9490.42
BOT PERFS/OH	13780	-4514.88	512.80	9491.03
	13782	-4516.88	512.74	9491.06

NEXT TO LAST	13782	-4516.88	512.74	9491.06
LAST READING	13840	-4574.83	510.61	9491.77
TD	13840	-4574.83	510.61	9491.77

Surface Location	330 FN	1750 FW
Projected BHL	4905 FN	2261 FW
Location of		
Top Perfs/OH	799 FN	2012 FW
Bottom Perfs/OH	4845 FN	2263 FW

SUMMARY of Subsurface Locations

Surface Location	C-08-25S-34E	330 FN	1750 FW	Vert. Depth
Top Perfs/OH	C-08-25S-34E	799 FN	2012 FW	9425.56
Bottom Perfs/OH	N-08-25S-34E	4845 FN	2263 FW	9491.03
Projected TD	N-08-25S-34E	4905 FN	2261 FW	9491.77

EOG Resources

Lea County, NM (Nad27)
Diamond 8 Federal
Diamond 8 Fed Com 3H
Wellbore #1

Survey: Phoenix MWD Surveys

EOG Resources

15 June, 2012

SUR: C-08-25s-34e, 330/N & 1750/W
BHL: N-08-25s-34e, 4905/N & 2261/W
API # 30-025-40188

HOBBS OCD

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EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 3H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

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

Site		Diamond 8 Federal					
Site Position:		Northing:	419,755.70	usft	Latitude:	32° 9' 4.5805 N	
From:	Map	Easting:	758,329.50	usft	Longitude:	103° 29' 55.0957 W	
Position Uncertainty:	0.00	usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.44 °

Well	Diamond 8 Fed Com 3H					
Well Position	+N-S	0.00 usft	Northing:	419,762.20 usft	Latitude:	32° 9' 4.5433 N
	+E-W	0.00 usft	Easting:	759,649.50 usft	Longitude:	103° 29' 39.7422 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,380.80 usft

Wellbore		Wellbore #1			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	10/05/11	7.51	60.13	48,551

Design:		Wellbore #1			
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	174.13	

Survey Program		Date	06/15/12		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	13,840.00	Phoenix MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

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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)	
0.00	0.00	0.00	-3,410.80	0.00	0.00	0.00	0.00	0.00	419,762.20	759,649.50	
100.00	0.28	344.90	-3,310.80	100.00	0.24	-0.06	-0.24	0.28	419,762.44	759,649.44	
200.00	0.39	8.79	-3,210.80	200.00	0.81	-0.08	-0.81	0.18	419,763.01	759,649.42	
300.00	0.26	36.15	-3,110.80	300.00	1.33	0.11	-1.31	0.20	419,763.53	759,649.61	
400.00	0.14	67.84	-3,010.80	400.00	1.56	0.36	-1.51	0.16	419,763.76	759,649.86	
500.00	0.32	103.66	-2,910.81	499.99	1.54	0.74	-1.45	0.22	419,763.74	759,650.24	
600.00	0.91	119.69	-2,810.81	599.99	1.08	1.70	-0.90	0.61	419,763.28	759,651.20	
700.00	1.08	130.00	-2,710.83	699.97	0.08	3.12	0.24	0.25	419,762.28	759,652.62	
800.00	1.15	138.05	-2,610.85	799.95	-1.27	4.51	1.73	0.17	419,760.93	759,654.01	
900.00	0.95	136.03	-2,510.86	899.94	-2.62	5.75	3.19	0.20	419,759.58	759,655.25	
1,000.00	0.82	139.43	-2,410.87	999.93	-3.76	6.80	4.43	0.14	419,758.44	759,656.30	
1,100.00	0.57	156.80	-2,310.88	1,099.92	-4.76	7.46	5.49	0.32	419,757.44	759,656.96	
1,200.00	0.75	134.25	-2,210.89	1,199.91	-5.67	8.12	6.47	0.31	419,756.53	759,657.62	
Last Gyro Survey											
1,285.00	1.00	170.50	-2,125.90	1,284.90	-6.79	8.64	7.64	0.70	419,755.41	759,658.14	
First Phoenix MWD Survey											
1,469.00	1.50	173.00	-1,941.94	1,468.86	-10.76	9.20	11.65	0.27	419,751.44	759,658.70	
1,656.00	2.20	175.80	-1,755.04	1,655.76	-16.77	9.76	17.68	0.38	419,745.43	759,659.26	
1,844.00	0.40	174.10	-1,567.10	1,843.70	-21.03	10.09	21.95	0.96	419,741.17	759,659.59	
2,034.00	0.50	94.30	-1,377.10	2,033.70	-21.75	10.99	22.76	0.31	419,740.45	759,660.49	
2,224.00	1.30	68.00	-1,187.12	2,223.68	-21.00	13.81	22.30	0.46	419,741.20	759,663.31	
2,413.00	1.30	88.60	-998.17	2,412.63	-20.15	17.94	21.88	0.25	419,742.05	759,667.44	
2,603.00	1.30	67.10	-808.22	2,602.58	-19.26	22.08	21.41	0.26	419,742.94	759,671.58	
2,792.00	1.50	51.40	-619.28	2,791.52	-16.88	25.99	19.45	0.23	419,745.32	759,675.49	
2,983.00	1.60	19.20	-428.34	2,982.46	-12.80	28.82	15.68	0.45	419,749.40	759,678.32	
3,174.00	1.00	64.50	-237.39	3,173.41	-9.56	31.21	12.71	0.60	419,752.64	759,680.71	
3,365.00	1.50	72.00	-46.43	3,364.37	-8.07	35.09	11.62	0.27	419,754.13	759,684.59	

Phoenix Technology Services

EOG Resources



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Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3410 80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 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)	
3,555.00	2.30	86.60	143.46	3,554.26	-7.08	41.26	11.26	0.49	419,755.12	759,690.76	
3,746.00	1.20	39.30	334.38	3,745.18	-5.30	46.35	10.02	0.90	419,756.90	759,695.85	
3,936.00	1.70	345.10	524.32	3,935.12	-1.04	46.89	5.83	0.73	419,761.16	759,696.39	
4,126.00	2.10	338.30	714.22	4,125.02	4.92	44.87	-0.30	0.24	419,767.12	759,694.37	
4,316.00	2.60	318.70	904.06	4,314.86	11.39	40.74	-7.16	0.49	419,773.59	759,690.24	
4,507.00	2.40	315.30	1,094.88	4,505.68	17.49	35.07	-13.81	0.13	419,779.69	759,684.57	
4,696.00	1.10	61.40	1,283.82	4,694.62	21.17	33.88	-17.59	1.54	419,783.37	759,683.38	
4,887.00	3.00	114.40	1,474.70	4,885.50	19.98	40.04	-15.78	1.31	419,782.18	759,689.54	
5,076.00	2.60	140.30	1,663.48	5,074.28	14.64	47.28	-9.73	0.70	419,776.84	759,696.78	
5,253.00	1.40	159.60	1,840.38	5,251.18	9.52	50.60	-4.30	0.77	419,771.72	759,700.10	
5,444.00	0.90	205.30	2,031.34	5,442.14	5.98	50.78	-0.76	0.53	419,768.18	759,700.28	
5,635.00	1.20	224.00	2,222.31	5,633.11	3.19	48.75	1.82	0.24	419,765.39	759,698.25	
5,826.00	1.10	232.90	2,413.27	5,824.07	0.64	45.89	4.06	0.11	419,762.84	759,695.39	
6,016.00	1.30	226.30	2,603.23	6,014.03	-1.95	42.88	6.32	0.13	419,760.25	759,692.38	
6,206.00	0.90	213.40	2,793.19	6,203.99	-4.68	40.50	8.80	0.25	419,757.52	759,690.00	
6,396.00	1.10	221.00	2,983.16	6,393.96	-7.31	38.48	11.20	0.13	419,754.89	759,687.98	
6,586.00	1.00	220.90	3,173.13	6,583.93	-9.93	36.20	13.58	0.05	419,752.27	759,685.70	
6,776.00	1.10	214.20	3,363.10	6,773.90	-12.70	34.09	16.12	0.08	419,749.50	759,683.59	
6,966.00	1.10	220.50	3,553.07	6,963.87	-15.59	31.88	18.77	0.06	419,746.61	759,681.38	
7,156.00	1.10	216.70	3,743.03	7,153.83	-18.44	29.61	21.37	0.04	419,743.76	759,679.11	
7,346.00	0.70	270.90	3,933.01	7,343.81	-19.88	27.36	22.58	0.47	419,742.32	759,676.86	
7,536.00	0.50	210.80	4,123.00	7,533.80	-20.58	25.77	23.11	0.33	419,741.62	759,675.27	
7,726.00	1.10	287.10	4,312.99	7,723.79	-20.75	23.60	23.06	0.58	419,741.45	759,673.10	
7,916.00	1.00	270.50	4,502.95	7,913.75	-20.20	20.20	22.16	0.17	419,742.00	759,669.70	
8,107.00	0.60	262.60	4,693.93	8,104.73	-20.32	17.54	22.01	0.22	419,741.88	759,667.04	
8,298.00	0.50	155.80	4,884.93	8,295.73	-21.21	16.89	22.82	0.46	419,740.99	759,666.39	
8,487.00	0.60	139.00	5,073.92	8,484.72	-22.71	17.88	24.42	0.10	419,739.49	759,667.38	

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Well:	Diamond 8 Fed Com 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)	
8,678.00	1.20	125.20	5,264.90	8,675.70	-24.61	20.17	26.55	0.33	419,737.59	759,669.67	
8,835.00	1.20	120.50	5,421.86	8,832.66	-26.40	22.93	28.60	0.06	419,735.80	759,672.43	
8,896.00	1.50	126.20	5,482.85	8,893.65	-27.19	24.13	29.52	0.54	419,735.01	759,673.63	
8,927.00	3.60	140.70	5,513.81	8,924.61	-28.18	25.07	30.60	7.03	419,734.02	759,674.57	
8,959.00	7.10	143.80	5,545.67	8,956.47	-30.56	26.87	33.15	10.97	419,731.64	759,676.37	
8,991.00	11.90	143.60	5,577.22	8,988.02	-34.81	30.00	37.70	15.00	419,727.39	759,679.50	
9,023.00	16.80	142.90	5,608.21	9,019.01	-41.16	34.75	44.50	15.32	419,721.04	759,684.25	
9,054.00	21.50	143.60	5,637.49	9,048.29	-49.31	40.83	53.23	15.18	419,712.89	759,690.33	
9,086.00	25.30	143.80	5,666.85	9,077.65	-59.55	48.35	64.18	11.88	419,702.65	759,697.85	
9,117.00	27.30	142.50	5,694.64	9,105.44	-70.54	56.59	75.96	6.71	419,691.66	759,706.09	
9,149.00	29.30	142.60	5,722.82	9,133.62	-82.58	65.82	88.88	6.25	419,679.62	759,715.32	
9,180.00	31.30	145.90	5,749.58	9,160.38	-95.28	74.94	102.44	8.39	419,666.92	759,724.44	
9,212.00	34.60	148.70	5,776.43	9,187.23	-109.93	84.32	117.98	11.36	419,652.27	759,733.82	
9,244.00	38.70	149.80	5,802.10	9,212.90	-126.35	94.08	135.30	12.98	419,635.85	759,743.58	
9,275.00	41.90	151.40	5,825.74	9,236.54	-143.81	103.91	153.69	10.85	419,618.39	759,753.41	
9,307.00	43.50	153.10	5,849.26	9,260.06	-163.02	114.01	173.83	6.16	419,599.18	759,763.51	
9,339.00	45.20	153.70	5,872.14	9,282.94	-183.02	124.02	194.75	5.47	419,579.18	759,773.52	
9,371.00	48.30	153.80	5,894.06	9,304.86	-203.92	134.33	216.59	9.69	419,558.28	759,783.83	
9,402.00	52.40	154.00	5,913.84	9,324.64	-225.35	144.83	238.98	13.24	419,536.85	759,794.33	
9,433.00	56.70	153.50	5,931.82	9,342.62	-248.00	156.00	262.65	13.93	419,514.20	759,805.50	
9,465.00	60.90	153.10	5,948.39	9,359.19	-272.44	168.30	288.23	13.17	419,489.76	759,817.80	
9,497.00	64.40	153.10	5,963.09	9,373.89	-297.79	181.15	314.75	10.94	419,464.41	759,830.65	
9,528.00	67.20	153.00	5,975.79	9,386.59	-322.99	193.97	341.13	9.04	419,439.21	759,843.47	
9,560.00	69.80	153.70	5,987.52	9,398.32	-349.60	207.32	368.97	8.38	419,412.60	759,856.82	
9,592.00	73.30	154.90	5,997.65	9,408.45	-376.95	220.48	397.52	11.50	419,385.25	759,869.98	
9,624.00	77.10	155.90	6,005.82	9,416.62	-405.07	233.35	426.81	12.25	419,357.13	759,882.85	
9,658.00	83.20	156.20	6,011.63	9,422.43	-435.67	246.94	458.64	17.96	419,326.53	759,896.44	

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9,690.00	86.50	156.60	6,014.51	9,425.31	-464.87	259.70	489.00	10.39	419,297.33	759,909.20	
9,753.00	87.70	156.80	6,017.69	9,428.49	-522.66	284.59	549.03	1.93	419,239.54	759,934.09	
9,848.00	87.60	156.40	6,021.59	9,432.39	-609.77	322.29	639.54	0.43	419,152.43	759,971.79	
9,943.00	88.10	159.00	6,025.15	9,435.95	-697.60	358.30	730.59	2.79	419,064.60	760,007.80	
10,038.00	89.50	160.40	6,027.14	9,437.94	-786.67	391.25	822.56	2.08	418,975.53	760,040.75	
10,133.00	89.10	163.70	6,028.30	9,439.10	-877.03	420.53	915.44	3.50	418,885.17	760,070.03	
10,228.00	90.20	168.00	6,028.88	9,439.68	-969.12	443.74	1,009.42	4.67	418,793.08	760,093.24	
10,323.00	89.70	170.60	6,028.97	9,439.77	-1,062.46	461.38	1,104.08	2.79	418,699.74	760,110.88	
10,417.00	90.30	172.90	6,028.97	9,439.77	-1,155.48	474.87	1,197.99	2.53	418,606.72	760,124.37	
10,512.00	90.20	175.90	6,028.55	9,439.35	-1,250.02	484.14	1,292.98	3.16	418,512.18	760,133.64	
10,606.00	89.70	178.10	6,028.64	9,439.44	-1,343.88	489.06	1,386.85	2.40	418,418.32	760,138.56	
10,701.00	89.50	178.50	6,029.30	9,440.10	-1,438.84	491.87	1,481.60	0.47	418,323.36	760,141.37	
10,795.00	88.40	182.60	6,031.02	9,441.82	-1,532.80	490.97	1,574.97	4.52	418,229.40	760,140.47	
10,891.00	89.60	183.10	6,032.70	9,443.50	-1,628.66	486.20	1,669.85	1.35	418,133.54	760,135.70	
10,985.00	88.60	184.50	6,034.17	9,444.97	-1,722.44	479.97	1,762.50	1.83	418,039.76	760,129.47	
11,080.00	87.80	183.50	6,037.16	9,447.96	-1,817.16	473.35	1,856.04	1.35	417,945.04	760,122.85	
11,175.00	87.80	180.60	6,040.81	9,451.61	-1,912.02	469.95	1,950.06	3.05	417,850.18	760,119.45	
11,270.00	87.60	181.20	6,044.62	9,455.42	-2,006.93	468.46	2,044.32	0.67	417,755.27	760,117.96	
11,365.00	88.30	179.10	6,048.02	9,458.82	-2,101.86	468.21	2,138.73	2.33	417,660.34	760,117.71	
11,460.00	90.30	179.60	6,049.18	9,459.98	-2,196.85	469.29	2,233.32	2.17	417,565.35	760,118.79	
11,554.00	88.80	179.20	6,049.92	9,460.72	-2,290.84	470.28	2,326.92	1.65	417,471.36	760,119.78	
11,650.00	89.50	179.10	6,051.34	9,462.14	-2,386.81	471.70	2,422.54	0.74	417,375.39	760,121.20	
11,745.00	89.10	177.40	6,052.50	9,463.30	-2,481.76	474.60	2,517.28	1.84	417,280.44	760,124.10	
11,840.00	89.50	177.20	6,053.66	9,464.46	-2,576.65	479.07	2,612.13	0.47	417,185.55	760,128.57	
11,936.00	89.50	178.00	6,054.50	9,465.30	-2,672.56	483.09	2,707.95	0.83	417,089.64	760,132.59	
12,030.00	89.80	180.20	6,055.07	9,465.87	-2,766.54	484.57	2,801.59	2.36	416,995.66	760,134.07	
12,125.00	89.50	179.10	6,055.65	9,466.45	-2,861.53	485.15	2,896.15	1.20	416,900.67	760,134.65	

Phoenix Technology Services

EOG Resources



Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond 8 Fed Com 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 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)
12,220.00	90.20	180.20	6,055.90	9,466.70	-2,956.53	485.73	2,990.70	1.37	416,805.67	760,135.23
12,315.00	90.80	179.20	6,055.07	9,465.87	-3,051.52	486.23	3,085.25	1.23	416,710.68	760,135.73
12,409.00	90.60	179.50	6,053.92	9,464.72	-3,145.51	487.30	3,178.85	0.38	416,616.69	760,136.80
12,504.00	89.50	182.20	6,053.84	9,464.64	-3,240.49	485.89	3,273.19	3.07	416,521.71	760,135.39
12,598.00	86.70	181.70	6,056.96	9,467.76	-3,334.37	482.69	3,366.25	3.03	416,427.83	760,132.19
12,693.00	87.30	179.70	6,061.93	9,472.73	-3,429.23	481.53	3,460.50	2.20	416,332.97	760,131.03
12,788.00	89.00	178.40	6,065.00	9,475.80	-3,524.16	483.11	3,555.09	2.25	416,238.04	760,132.61
12,884.00	89.50	179.20	6,066.25	9,477.05	-3,620.13	485.12	3,650.76	0.98	416,142.07	760,134.62
12,979.00	89.50	180.90	6,067.08	9,477.88	-3,715.12	485.03	3,745.25	1.79	416,047.08	760,134.53
13,074.00	89.50	180.60	6,067.91	9,478.71	-3,810.11	483.79	3,839.61	0.32	415,952.09	760,133.29
13,168.00	86.60	174.80	6,071.11	9,481.91	-3,903.93	487.55	3,933.32	6.89	415,858.27	760,137.05
13,263.00	88.70	177.00	6,075.01	9,485.81	-3,998.60	494.34	4,028.19	3.20	415,763.60	760,143.84
13,357.00	89.10	178.00	6,076.81	9,487.61	-4,092.49	498.44	4,122.01	1.15	415,669.71	760,147.94
13,452.00	89.00	174.50	6,078.39	9,489.19	-4,187.26	504.65	4,216.91	3.69	415,574.94	760,154.15
13,546.00	89.90	176.80	6,079.29	9,490.09	-4,280.98	511.78	4,310.87	2.63	415,481.22	760,161.28
13,641.00	90.30	179.40	6,079.13	9,489.93	-4,375.92	514.93	4,405.63	2.77	415,386.28	760,164.43
13,736.00	89.10	181.50	6,079.62	9,490.42	-4,470.90	514.18	4,500.05	2.55	415,291.30	760,163.68
13,782.00	89.30	182.10	6,080.26	9,491.06	-4,516.88	512.74	4,545.63	1.37	415,245.32	760,162.24
Last Phoenix MWD Survey										
13,840.00	89.30	182.10	6,080.97	9,491.77	-4,574.83	510.61	4,603.07	0.00	415,187.37	760,160.11
Projection to TD										

Phoenix Technology Services
EOG Resources

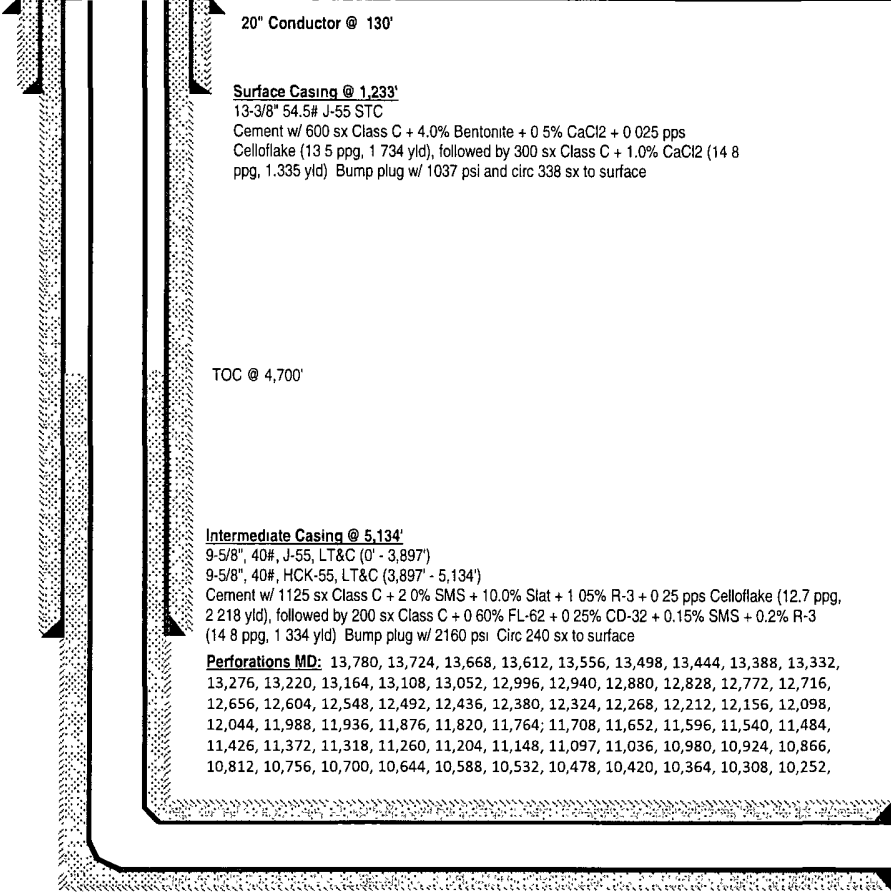


Company:	EOG Resources	Local Co-ordinate Reference:	Well Diamond-8 Fed Com 3H
Project:	Lea County, NM (Nad27)	TVD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Site:	Diamond 8 Federal	MD Reference:	WELL @ 3410.80usft (Original Well Elev + 30' KB)
Well:	Diamond 8 Fed Com 3H	North Reference:	Gnd
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	GCR DB v5000

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,200.00	1,199.91	-5.67	8.12	Last Gyro Survey	
1,285.00	1,284.90	-6.79	8.64	First Phoenix MWD Survey	
13,782.00	9,491.06	-4,516.88	512.74	Last Phoenix MWD Survey	
13,840.00	9,491.77	-4,574.83	510.61	Projection to TD	

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

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: API: 30-025-40188 AFE: 104423 SPUD: 5/28/12 @ 18:00 hrs FRR: 6/17/12 @ 18:00 hrs RIG: Cactus #123	Diamond 8 Fed Com #3H Red Hills(Bone Spring) Field Lea County, New Mexico	SURF: 330' FNL & 1750' FWL LOC: Sec 8 SURVEY: T-25-S, R-34-E GL: 3380.8' KB: 3410.8' ZERO: 30.0' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION
2,000'	Rustler - 1090'			20" Conductor @ 130'		17-1/2"	8.6	FW		N/A	
3,000'	T / Salado - 1420'			Surface Casing @ 1,233' 13-3/8" 54.5# J-55 STC Cement w/ 600 sx Class C + 4.0% Bentonite + 0.5% CaCl2 + 0.025 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl2 (14.8 ppg, 1.335 yld) Bump plug w/ 1037 psi and circ 338 sx to surface			9.0		86		
5,000'	B / Salado - 5050'			TOC @ 4,700'		12-1/4"		Bime			
6,000'	Lamar - 5260'										
7,000'	Bell Canyon - 5288'			Intermediate Casing @ 5,134' 9-5/8", 40#, J-55, LT&C (0' - 3,897') 9-5/8", 40#, HCK-55, LT&C (3,897' - 5,134') Cement w/ 1125 sx Class C + 0.60% FL-62 + 0.25% CD-32 + 0.15% SMS + 0.2% R-3 (14.8 ppg, 1.334 yld) Bump plug w/ 2160 psi Circ 240 sx to surface			10.2				
8,000'	Cherry Canyon - 6260'			Perforations MD: 13,780, 13,724, 13,668, 13,612, 13,556, 13,498, 13,444, 13,388, 13,332, 13,276, 13,220, 13,164, 13,108, 13,052, 12,996, 12,940, 12,880, 12,828, 12,772, 12,716, 12,656, 12,604, 12,548, 12,492, 12,436, 12,380, 12,324, 12,268, 12,212, 12,156, 12,098, 12,044, 11,988, 11,936, 11,876, 11,820, 11,764, 11,708, 11,652, 11,596, 11,540, 11,484, 11,426, 11,372, 11,318, 11,260, 11,204, 11,148, 11,097, 11,036, 10,980, 10,924, 10,866, 10,812, 10,756, 10,700, 10,644, 10,588, 10,532, 10,478, 10,420, 10,364, 10,308, 10,252,							
9,000'	Bone Spring Lime - 9240'					8-3/4"	8.4			N/A	
10,000'				Production Casing @ 13,815' MD, 9,491' TVD 5-1/2" 17# HCP-110 LTC Cement w/ 375 sx 60'40'0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.80% ASA-301 + 8.0 pps LCM-1 (10.8 ppg, 3.681 yld), followed by 400 sx 50'50'10 Class H + 0.80% FL-52 + 0.80% ASA-301 + 0.5% SMS + 2.0% Salt + 0.4% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.38 yld), followed by 1200 sx 50'50'2 Class H + 0.65% FL-52 + 0.5% CD-32 + 0.20% SMS + 2.0% Salt (14.2 ppg, 1.2777 yld). Did not circ cement to surface			9.3	WBM			
11,000'									140		

Compl Eng: R Willett
Date: 8/27/2012