

Results of Directional Survey

API number:	30-025-40258			
OGRID:		Operator:	EOG RESOURCES INC	
		Property:	ENDURANCE 36 STATE COM	# 2H

surface	ULSTR:	F	36	T 26S	R 33E	2506
				330 FSL	1760 FWL	

BH Loc	ULSTR:	D	25	T 26S	R 33E	
17042	MD	9639.0	TVD	229 FNL	1114 FWL	
				7558 FSL		

Top Perf/OH	ULSTR:	E	36	T 26S	R 33E	
9960	MD	9665.2	TVD	481 FSL	1184 FWL	

Bot Perf/OH	ULSTR:	D	25	T 26S	R 33E	
16920	MD	9646.1	TVD	3351 FNL	1118 FWL	
				7436 FSL		

	MD	N/S	E/W	VD
	9957	148.38	-575.48	9665.11
TOP PERFS/OH	9960	151.38	-575.53	9665.18
	10052	243.34	-576.97	9667.35
	16887	7073.22	-641.01	9647.96
BOT PERFS/OH	16920	7106.15	-642.11	9646.06
	16940.93	7127.03	-642.80	9644.85

NEXT TO LAST	16940.93	7127.03	-642.80	9644.85
LAST READING	17042	7227.88	-646.14	9639.04
TD	17042	7227.88	-646.14	9639.04

Surface Location	330	FS	1760	FW
Projected BHL	7558	FS	1114	FW
Location of				
Top Perfs/OH	481	FS	1184	FW
Bottom Perfs/OH	7436	FS	1118	FW

SUMMARY of Subsurface Locations

Surface Location	F-36-26S-33E	330	FS	1760	FW	Vert. Depth
Top Perfs/OH	E-36-26S-33E	481	FS	1184	FW	9665.18
Bottom Perfs/OH	D-25-26S-33E	7436	FS	1118	FW	9646.06
Projected TD	D-25-26S-33E	7558	FS	1114	FW	9639.04

OCT 15 2014



EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Endurance 36 State Com

Endurance 36 State Com #2H

OH

Design: OH

EOG PVA

22 June, 2014

RECEIVED

OCT 06 2014

HOBBS OCD



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea County, NM (NAD 27 NME)		
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	Endurance 36 State Com		
Site Position:		Northing:	365,036.00 usft
From:	Map	Easting:	749,506.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 3.760 N
		Longitude:	103° 31' 42.470 W
		Grid Convergence:	0.43 °

Well	Endurance 36 State Com #2H		
Well Position	+N/-S	0.00 usft	Northing: 365,036.00 usft
	+E/-W	0.00 usft	Easting: 749,506.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 0' 3.760 N
		Longitude:	103° 31' 42.470 W
		Ground Level:	3,334.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF201014	5/21/2014	7.19	59.91	48,194

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	354.868

Survey Program	Date	6/22/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
125.00	17,042.00	Drilltech MWD #1 (OH)	MWD	MWD - Standard



EOG Resources, Inc.

EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
125.00	0.70	43.300	125.00	0.56	0.52	0.56	0.56	0.00	0.00	0.00	0.00
311.00	1.60	28.700	310.96	3.66	2.55	0.51	0.48	-7.85	0.00	0.00	0.00
496.00	1.90	328.300	495.89	8.54	2.18	0.96	0.16	-32.65	0.00	0.00	0.00
649.00	2.30	258.500	648.80	10.08	-2.16	1.58	0.26	-45.62	0.00	0.00	0.00
833.00	2.50	231.400	832.65	6.84	-8.92	0.62	0.11	-14.73	0.00	0.00	0.00
871.00	2.30	215.600	870.62	5.70	-10.01	1.81	-0.53	-41.58	0.00	0.00	0.00
1,041.00	2.10	213.700	1,040.49	0.34	-13.72	0.13	-0.12	-1.12	0.00	0.00	0.00
1,136.00	1.80	208.900	1,135.44	-2.41	-15.41	0.36	-0.32	-5.05	0.00	0.00	0.00
1,230.00	1.80	211.700	1,229.39	-4.96	-16.90	0.09	0.00	2.98	0.00	0.00	0.00
1,324.00	1.60	208.700	1,323.35	-7.37	-18.31	0.23	-0.21	-3.19	0.00	0.00	0.00
1,419.00	1.80	203.500	1,418.31	-9.90	-19.54	0.27	0.21	-5.47	0.00	0.00	0.00
1,514.00	1.80	206.100	1,513.26	-12.61	-20.79	0.09	0.00	2.74	0.00	0.00	0.00
1,608.00	1.80	202.900	1,607.21	-15.30	-22.01	0.11	0.00	-3.40	0.00	0.00	0.00
1,703.00	1.90	200.600	1,702.16	-18.14	-23.15	0.13	0.11	-2.42	0.00	0.00	0.00
1,797.00	1.90	210.500	1,796.11	-20.95	-24.49	0.35	0.00	10.53	0.00	0.00	0.00
1,891.00	1.90	204.500	1,890.06	-23.71	-25.92	0.21	0.00	-6.38	0.00	0.00	0.00
2,080.00	1.80	200.800	2,078.96	-29.33	-28.28	0.08	-0.05	-1.96	0.00	0.00	0.00
2,175.00	1.80	200.600	2,173.92	-32.12	-29.33	0.01	0.00	-0.21	0.00	0.00	0.00
2,270.00	1.60	248.300	2,268.88	-34.01	-31.09	1.46	-0.21	50.21	0.00	0.00	0.00
2,364.00	1.80	247.400	2,362.84	-35.06	-33.67	0.21	0.21	-0.96	0.00	0.00	0.00
2,459.00	1.40	233.200	2,457.80	-36.33	-35.98	0.59	-0.42	-14.95	0.00	0.00	0.00
2,554.00	1.40	225.400	2,552.77	-37.84	-37.73	0.20	0.00	-8.21	0.00	0.00	0.00
2,648.00	1.40	216.100	2,646.74	-39.58	-39.23	0.24	0.00	-9.89	0.00	0.00	0.00
2,743.00	1.60	210.300	2,741.71	-41.66	-40.58	0.26	0.21	-6.11	0.00	0.00	0.00
2,837.00	1.80	248.500	2,835.67	-43.33	-42.62	1.20	0.21	40.64	0.00	0.00	0.00
2,932.00	1.80	257.600	2,930.63	-44.20	-45.46	0.30	0.00	9.58	0.00	0.00	0.00



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
3,027.00	1.40	237.900	3,025.59	-45.14	-47.90	0.71	-0.42	-20.74	0.00	0.00	
3,121.00	1.10	244.800	3,119.57	-46.13	-49.69	0.36	-0.32	7.34	0.00	0.00	
3,216.00	0.70	198.400	3,214.56	-47.07	-50.70	0.84	-0.42	-48.84	0.00	0.00	
3,310.00	1.10	269.600	3,308.55	-47.62	-51.78	1.17	0.43	75.74	0.05	-0.63	
3,405.00	2.30	280.500	3,403.50	-47.28	-54.57	1.30	1.26	11.47	-0.55	-2.29	
3,499.00	2.80	270.300	3,497.41	-46.92	-58.72	0.72	0.53	-10.85	-1.33	-4.11	
3,594.00	2.50	268.500	3,592.31	-46.97	-63.11	0.33	-0.32	-1.89	-2.56	-5.57	
3,689.00	2.50	266.600	3,687.22	-47.14	-67.25	0.09	0.00	-2.00	-3.45	-6.96	
3,783.00	1.80	279.600	3,781.15	-47.02	-70.75	0.90	-0.74	13.83	-5.71	-7.43	
3,878.00	0.90	302.800	3,876.13	-46.37	-72.85	1.09	-0.95	24.42	-8.55	-6.81	
3,972.00	1.10	267.300	3,970.11	-46.01	-74.37	0.68	0.21	-37.77	-1.49	-12.21	
4,067.00	1.10	247.800	4,065.09	-46.40	-76.13	0.39	0.00	-20.53	4.21	-12.49	
4,161.00	0.40	199.800	4,159.09	-47.05	-77.07	0.94	-0.74	-51.06	13.50	-3.59	
4,256.00	0.70	237.200	4,254.08	-47.67	-77.68	0.48	0.32	39.37	10.99	-10.43	
4,351.00	0.90	235.600	4,349.07	-48.41	-78.78	0.21	0.21	-1.68	13.22	-9.62	
4,445.00	0.70	232.500	4,443.06	-49.18	-79.84	0.22	-0.21	-3.30	15.62	-8.24	
4,540.00	0.50	286.300	4,538.06	-49.41	-80.70	0.60	-0.21	56.63	4.29	-19.21	
4,634.00	0.40	300.700	4,632.06	-49.13	-81.38	0.16	-0.11	15.32	0.48	-22.30	
4,729.00	0.70	283.800	4,727.05	-48.82	-82.23	0.36	0.32	-17.79	8.62	-23.39	
4,824.00	0.20	336.200	4,822.05	-48.53	-82.86	0.63	-0.53	55.16	-13.89	-23.95	
4,918.00	1.60	249.200	4,916.04	-48.85	-84.15	1.70	1.49	-92.55	25.14	-15.55	
5,012.00	1.60	244.400	5,010.00	-49.88	-86.56	0.14	0.00	-5.11	27.02	-13.50	
5,106.00	1.20	232.500	5,103.97	-51.05	-88.52	0.52	-0.43	-12.66	30.16	-7.22	
5,236.00	1.20	245.800	5,233.94	-52.43	-90.85	0.21	0.00	10.23	29.63	-13.75	
5,331.00	2.50	246.200	5,328.89	-53.68	-93.65	1.37	1.37	0.42	31.11	-14.08	
5,426.00	4.80	244.100	5,423.69	-56.25	-99.12	2.42	2.42	-2.21	31.76	-12.96	
5,520.00	6.70	240.000	5,517.22	-60.71	-107.41	2.07	2.02	-4.36	30.84	-10.34	



EOG Resources, Inc.

EOG PVA

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 27 NME)
 Site: Endurance 36 State Com
 Well: Endurance 36 State Com #2H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well Endurance 36 State Com #2H
 TVD Reference: WELL @ 3359.00usft (3334' GL + 25' KB)
 MD Reference: WELL @ 3359.00usft (3334' GL + 25' KB)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
5,614.00	8.10	239.100	5,610.43	-66.85	-117.84	1.49	1.49	-0.96	28.04	-9.07	
5,708.00	8.40	240.000	5,703.46	-73.69	-129.47	0.35	0.32	0.96	25.08	-8.56	
5,803.00	8.10	240.500	5,797.48	-80.45	-141.30	0.32	-0.32	0.53	23.10	-7.88	
5,897.00	7.90	240.400	5,890.56	-86.90	-152.68	0.21	-0.21	-0.11	21.64	-7.00	
5,992.00	7.60	240.000	5,984.69	-93.27	-163.80	0.32	-0.32	-0.42	20.62	-5.96	
6,087.00	7.20	239.700	6,078.90	-99.41	-174.38	0.42	-0.42	-0.32	20.15	-4.89	
6,181.00	7.20	240.500	6,172.16	-105.29	-184.59	0.11	0.00	0.85	19.92	-4.26	
6,276.00	7.60	236.700	6,266.37	-111.67	-195.03	0.67	0.42	-4.00	19.61	-1.72	
6,370.00	7.70	237.200	6,359.53	-118.49	-205.52	0.13	0.11	0.53	18.63	-0.35	
6,464.00	7.60	234.900	6,452.70	-125.48	-215.89	0.34	-0.11	-2.45	17.61	2.10	
6,558.00	7.20	236.200	6,545.91	-132.33	-225.88	0.46	-0.43	1.38	17.08	3.54	
6,653.00	7.70	235.800	6,640.11	-139.22	-236.09	0.53	0.53	-0.42	16.37	5.41	
6,747.00	8.60	236.200	6,733.16	-146.67	-247.14	0.96	0.96	0.43	14.61	7.03	
6,842.00	8.30	237.700	6,827.13	-154.28	-258.83	0.39	-0.32	1.58	12.50	8.25	
6,936.00	8.60	236.300	6,920.11	-161.81	-270.42	0.39	0.32	-1.49	10.01	10.05	
7,030.00	8.10	238.100	7,013.11	-169.21	-281.89	0.60	-0.53	1.91	8.23	11.27	
7,124.00	7.90	236.700	7,106.20	-176.25	-292.91	0.30	-0.21	-1.49	6.42	12.90	
7,219.00	7.70	236.900	7,200.32	-183.31	-303.69	0.21	-0.21	0.21	5.24	14.47	
7,313.00	7.60	238.400	7,293.48	-190.01	-314.26	0.24	-0.11	1.60	4.68	15.74	
7,407.00	7.20	238.400	7,386.70	-196.35	-324.58	0.43	-0.43	0.00	4.16	16.99	
7,501.00	6.90	238.800	7,479.99	-202.36	-334.42	0.32	-0.32	0.43	4.34	18.18	
7,595.00	6.90	238.400	7,573.31	-208.25	-344.06	0.05	0.00	-0.43	4.51	19.42	
7,690.00	6.30	238.600	7,667.68	-213.95	-353.37	0.63	-0.63	0.21	5.38	20.65	
7,784.00	6.90	236.500	7,761.05	-219.76	-362.48	0.69	0.64	-2.23	5.38	22.27	
7,879.00	8.60	235.300	7,855.18	-226.95	-373.08	1.80	1.79	-1.26	3.74	24.15	
7,973.00	8.30	232.100	7,948.16	-235.12	-384.21	0.59	-0.32	-3.40	-0.04	26.45	
8,068.00	7.60	232.100	8,042.25	-243.19	-394.58	0.74	-0.74	0.00	-1.69	28.99	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
8,162.00	7.20	229.700	8,135.47	-250.82	-403.98	0.54	-0.43	-2.55	-3.73	31.62	
8,257.00	7.20	232.600	8,229.72	-258.29	-413.25	0.38	0.00	3.05	-2.51	34.51	
8,351.00	7.60	237.600	8,322.94	-265.20	-423.18	0.81	0.43	5.32	-0.03	36.53	
8,446.00	8.30	244.200	8,417.02	-271.55	-434.66	1.21	0.74	6.95	2.80	37.09	
8,540.00	8.30	247.600	8,510.04	-277.08	-447.04	0.52	0.00	3.62	3.04	36.65	
8,635.00	7.60	245.500	8,604.13	-282.30	-459.09	0.80	-0.74	-2.21	0.34	36.29	
8,729.00	6.70	245.500	8,697.39	-287.15	-469.74	0.96	-0.96	0.00	0.30	36.10	
8,823.00	6.20	241.600	8,790.80	-291.84	-479.19	0.71	-0.53	-4.15	-1.04	36.26	
8,917.00	7.70	247.200	8,884.11	-296.70	-489.47	1.75	1.60	5.96	2.77	36.15	
9,011.00	6.90	244.100	8,977.34	-301.60	-500.35	0.95	-0.85	-3.30	0.55	36.00	
9,106.00	6.50	245.500	9,071.70	-306.33	-510.38	0.45	-0.42	1.47	2.13	35.92	
9,200.00	6.90	268.800	9,165.07	-308.65	-520.86	2.90	0.43	24.79	16.19	29.51	
9,247.00	9.00	292.600	9,211.63	-307.30	-527.08	8.22	4.47	50.64	24.84	18.68	
9,295.00	14.40	315.400	9,258.64	-301.60	-534.75	14.61	11.25	47.50	26.78	7.65	
9,342.00	19.40	328.800	9,303.61	-290.75	-542.91	13.42	10.64	28.51	23.46	2.14	
9,389.00	23.60	337.200	9,347.34	-275.39	-550.60	11.06	8.94	17.87	19.20	-0.23	
9,436.00	28.20	346.000	9,389.63	-255.92	-556.94	12.73	9.79	18.72	15.17	-2.54	
9,484.00	31.10	354.600	9,431.35	-232.56	-560.85	10.71	6.04	17.92	11.99	-5.84	
9,531.00	33.10	356.700	9,471.17	-207.66	-562.73	4.87	4.26	4.47	11.49	-8.98	
9,579.00	38.40	358.000	9,510.11	-179.66	-564.01	11.15	11.04	2.71	12.56	-12.34	
9,626.00	44.50	359.000	9,545.32	-148.57	-564.81	13.05	12.98	2.13	13.47	-15.73	
9,673.00	50.10	358.500	9,577.18	-114.05	-565.57	11.94	11.91	-1.06	14.34	-18.59	
9,720.00	56.10	356.700	9,605.39	-76.52	-567.16	13.13	12.77	-3.83	15.20	-20.08	
9,768.00	63.20	357.600	9,629.63	-35.18	-569.21	14.88	14.79	1.87	14.67	-21.21	
9,802.19	69.46	358.118	9,643.35	-3.90	-570.37	18.35	18.30	1.51	13.18	-22.02	
HL Corssing, MD:9802.19', TVD:9643.35', N/S:-3.90', E/W:-570.37', INC:69.46											
9,815.00	71.80	358.300	9,647.60	8.18	-570.75	18.35	18.30	1.42	12.27	-22.32	



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Endurance 36 State Com
Well: Endurance 36 State Com #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Endurance 36 State Com #2H
TVD Reference: WELL @ 3359.00usft (3334' GL + 25' KB)
MD Reference: WELL @ 3359.00usft (3334' GL + 25' KB)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
9,862.00	80.40	357.800	9,658.88	53.73	-572.31	18.33	18.30	-1.06	7.43	-22.91	
9,908.00	88.00	358.000	9,663.53	99.43	-573.98	16.53	16.52	0.43	0.54	-22.88	
9,957.00	88.30	358.500	9,665.11	148.38	-575.48	1.19	0.61	1.02	-5.40	-22.60	
10,052.00	89.00	359.700	9,667.35	243.34	-576.97	1.46	0.74	1.26	-5.65	-22.06	
10,146.00	88.90	0.600	9,669.07	337.33	-576.72	0.96	-0.11	0.96	-3.94	-22.97	
10,241.00	87.80	359.700	9,671.80	432.28	-576.47	1.50	-1.16	-0.95	-1.20	-23.90	
10,336.00	87.40	359.000	9,675.78	527.19	-577.55	0.85	-0.42	-0.74	2.79	-23.50	
10,430.00	87.30	358.300	9,680.13	621.07	-579.76	0.75	-0.11	-0.74	7.14	-21.96	
10,525.00	88.20	357.100	9,683.86	715.91	-583.57	1.58	0.95	-1.26	10.88	-18.82	
10,619.00	87.60	356.700	9,687.30	809.71	-588.65	0.77	-0.64	-0.43	14.32	-14.41	
10,714.00	88.70	355.900	9,690.37	904.46	-594.78	1.43	1.16	-0.84	17.38	-8.96	
10,809.00	91.10	356.900	9,690.53	999.27	-600.75	2.74	2.53	1.05	17.54	-3.69	
10,903.00	92.20	358.500	9,687.83	1,093.15	-604.52	2.06	1.17	1.70	14.83	-0.59	
10,998.00	91.30	359.200	9,684.93	1,188.08	-606.42	1.20	-0.95	0.74	11.93	0.64	
11,092.00	91.80	358.500	9,682.38	1,282.03	-608.31	0.91	0.53	-0.74	9.38	1.85	
11,187.00	91.50	358.500	9,679.65	1,376.96	-610.79	0.32	-0.32	0.00	6.65	3.66	
11,281.00	91.10	358.100	9,677.52	1,470.89	-613.58	0.60	-0.43	-0.43	4.52	5.77	
11,376.00	90.80	358.000	9,675.94	1,565.82	-616.81	0.33	-0.32	-0.11	2.94	8.32	
11,470.00	90.40	356.400	9,674.96	1,659.70	-621.40	1.75	-0.43	-1.70	1.96	12.24	
11,565.00	89.70	357.600	9,674.87	1,754.57	-626.38	1.46	-0.74	1.26	1.87	16.54	
11,660.00	91.00	358.300	9,674.29	1,849.50	-629.77	1.55	1.37	0.74	1.30	19.26	
11,754.00	90.30	359.200	9,673.23	1,943.47	-631.83	1.21	-0.74	0.96	0.23	20.63	
11,849.00	90.10	359.400	9,672.90	2,038.47	-632.99	0.30	-0.21	0.21	-0.10	21.11	
11,943.00	88.90	359.000	9,673.72	2,132.45	-634.30	1.35	-1.28	-0.43	0.71	21.75	
12,038.00	89.90	358.500	9,674.71	2,227.42	-636.37	1.18	1.05	-0.53	1.71	23.15	
12,133.00	90.10	359.600	9,674.71	2,322.41	-637.95	1.18	0.21	1.16	1.71	24.04	
12,227.00	90.80	2.500	9,673.97	2,416.38	-636.22	3.17	0.74	3.09	0.96	21.65	



EOG Resources, Inc.
EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
12,322.00	90.40	2.500	9,672.98	2,511.28	-632.08	0.42	-0.42	0.00	-0.03	16.82
12,416.00	89.90	2.400	9,672.73	2,605.20	-628.06	0.54	-0.53	-0.11	-0.27	12.13
12,511.00	89.00	1.500	9,673.64	2,700.13	-624.83	1.34	-0.95	-0.95	0.65	8.22
12,606.00	90.40	1.700	9,674.14	2,795.09	-622.18	1.49	1.47	0.21	1.14	4.89
12,700.00	89.90	1.300	9,673.89	2,889.06	-619.72	0.68	-0.53	-0.43	0.89	1.76
12,795.00	89.60	1.300	9,674.31	2,984.04	-617.56	0.32	-0.32	0.00	1.31	-1.08
12,889.00	89.40	0.300	9,675.13	3,078.02	-616.25	1.08	-0.21	-1.06	2.13	-3.06
12,984.00	89.20	0.400	9,676.29	3,173.01	-615.67	0.24	-0.21	0.11	3.29	-4.32
13,078.00	88.70	0.800	9,678.01	3,266.99	-614.68	0.68	-0.53	0.43	5.01	-5.98
13,173.00	88.00	0.300	9,680.75	3,361.95	-613.77	0.91	-0.74	-0.53	7.74	-7.57
13,268.00	88.00	359.600	9,684.06	3,456.89	-613.86	0.74	0.00	-0.74	11.06	-8.17
13,362.00	91.30	0.800	9,684.64	3,550.87	-613.53	3.74	3.51	1.28	11.64	-9.16
13,457.00	91.00	359.200	9,682.73	3,645.85	-613.53	1.71	-0.32	-1.68	9.73	-9.85
13,552.00	89.90	358.800	9,681.98	3,740.83	-615.18	1.23	-1.16	-0.42	8.99	-8.87
13,646.00	91.70	358.800	9,680.67	3,834.80	-617.15	1.91	1.91	0.00	7.67	-7.57
13,741.00	92.20	357.800	9,677.44	3,929.70	-619.97	1.18	0.53	-1.05	4.44	-5.44
13,835.00	92.20	357.800	9,673.83	4,023.56	-623.58	0.00	0.00	0.00	0.83	-2.50
13,930.00	92.20	357.600	9,670.18	4,118.41	-627.39	0.21	0.00	-0.21	-2.82	0.63
14,024.00	92.00	357.400	9,666.74	4,212.26	-631.48	0.30	-0.21	-0.21	-6.26	4.06
14,119.00	90.60	358.800	9,664.58	4,307.18	-634.63	2.08	-1.47	1.47	-8.42	6.53
14,214.00	90.60	358.100	9,663.59	4,402.14	-637.20	0.74	0.00	-0.74	-9.41	8.41
14,308.00	88.50	359.600	9,664.33	4,496.11	-639.09	2.75	-2.23	1.60	-8.67	9.63
14,403.00	88.20	359.700	9,667.06	4,591.07	-639.67	0.33	-0.32	0.11	-5.93	9.53
14,497.00	87.30	359.200	9,670.75	4,684.99	-640.57	1.10	-0.96	-0.53	-2.25	9.76
14,592.00	87.30	359.700	9,675.23	4,779.88	-641.48	0.53	0.00	0.53	2.23	9.99
14,686.00	88.20	359.700	9,678.92	4,873.80	-641.97	0.96	0.96	0.00	5.92	9.81
14,808.00	89.70	0.400	9,681.15	4,995.78	-641.86	1.36	1.23	0.57	8.16	8.83



EOG Resources, Inc.

EOG PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
14,903.00	90.10	1.100	9,681.32	5,090.77	-640.62	0.85	0.42	0.74	8.32	6.91
14,998.00	91.00	1.100	9,680.41	5,185.75	-638.80	0.95	0.95	0.00	7.41	4.41
15,092.00	89.90	1.700	9,679.67	5,279.71	-636.50	1.33	-1.17	0.64	6.67	1.43
15,187.00	89.60	1.000	9,680.08	5,374.69	-634.26	0.80	-0.32	-0.74	7.09	-1.48
15,281.00	90.30	1.700	9,680.17	5,468.66	-632.05	1.05	0.74	0.74	7.17	-4.37
15,376.00	90.60	1.800	9,679.42	5,563.61	-629.15	0.33	0.32	0.11	6.43	-7.95
15,471.00	91.70	1.300	9,677.51	5,658.56	-626.58	1.27	1.16	-0.53	4.52	-11.19
15,565.00	88.50	359.600	9,677.35	5,752.54	-625.84	3.85	-3.40	-1.81	4.35	-12.61
15,660.00	88.50	0.300	9,679.84	5,847.50	-625.92	0.74	0.00	0.74	6.83	-13.21
15,755.00	88.70	359.900	9,682.16	5,942.48	-625.76	0.47	0.21	-0.42	9.16	-14.05
15,849.00	89.20	359.400	9,683.88	6,036.46	-626.33	0.75	0.53	-0.53	10.88	-14.15
15,944.00	90.30	359.200	9,684.30	6,131.45	-627.49	1.18	1.16	-0.21	11.29	-13.67
16,038.00	90.60	359.400	9,683.56	6,225.44	-628.64	0.38	0.32	0.21	10.56	-13.19
16,133.00	91.00	0.100	9,682.23	6,320.43	-629.05	0.85	0.42	0.74	9.23	-13.46
16,227.00	90.30	0.400	9,681.16	6,414.42	-628.64	0.81	-0.74	0.32	8.17	-14.54
16,322.00	91.70	359.900	9,679.51	6,509.40	-628.40	1.56	1.47	-0.53	6.51	-15.47
16,416.00	92.60	0.100	9,675.98	6,603.33	-628.40	0.98	0.96	0.21	2.98	-16.14
16,511.00	95.20	359.400	9,669.52	6,698.11	-628.81	2.83	2.74	-0.74	-3.47	-16.41
16,605.00	94.00	358.700	9,661.98	6,791.79	-630.36	1.48	-1.28	-0.74	-11.01	-15.53
16,699.00	92.70	357.300	9,656.49	6,885.56	-633.64	2.03	-1.38	-1.49	-16.52	-12.91
16,793.00	92.20	357.800	9,652.47	6,979.39	-637.65	0.75	-0.53	0.53	-20.53	-9.57
16,887.00	93.30	358.100	9,647.96	7,073.22	-641.01	1.21	1.17	0.32	-25.04	-6.89
Last MWD Survey										
16,940.93	93.30	358.100	9,644.85	7,127.03	-642.80	0.00	0.00	0.00	-28.14	-5.49
HL Corssing, MD:16940.93', TVD:9644.85',N/S:7127.03', E/W:-642.80', INC:93.30										
17,042.00	93.30	358.100	9,639.04	7,227.88	-646.14	0.00	0.00	0.00	-33.97	-2.90
Projection To Bit										



EOG Resources, Inc.

EOG PVA

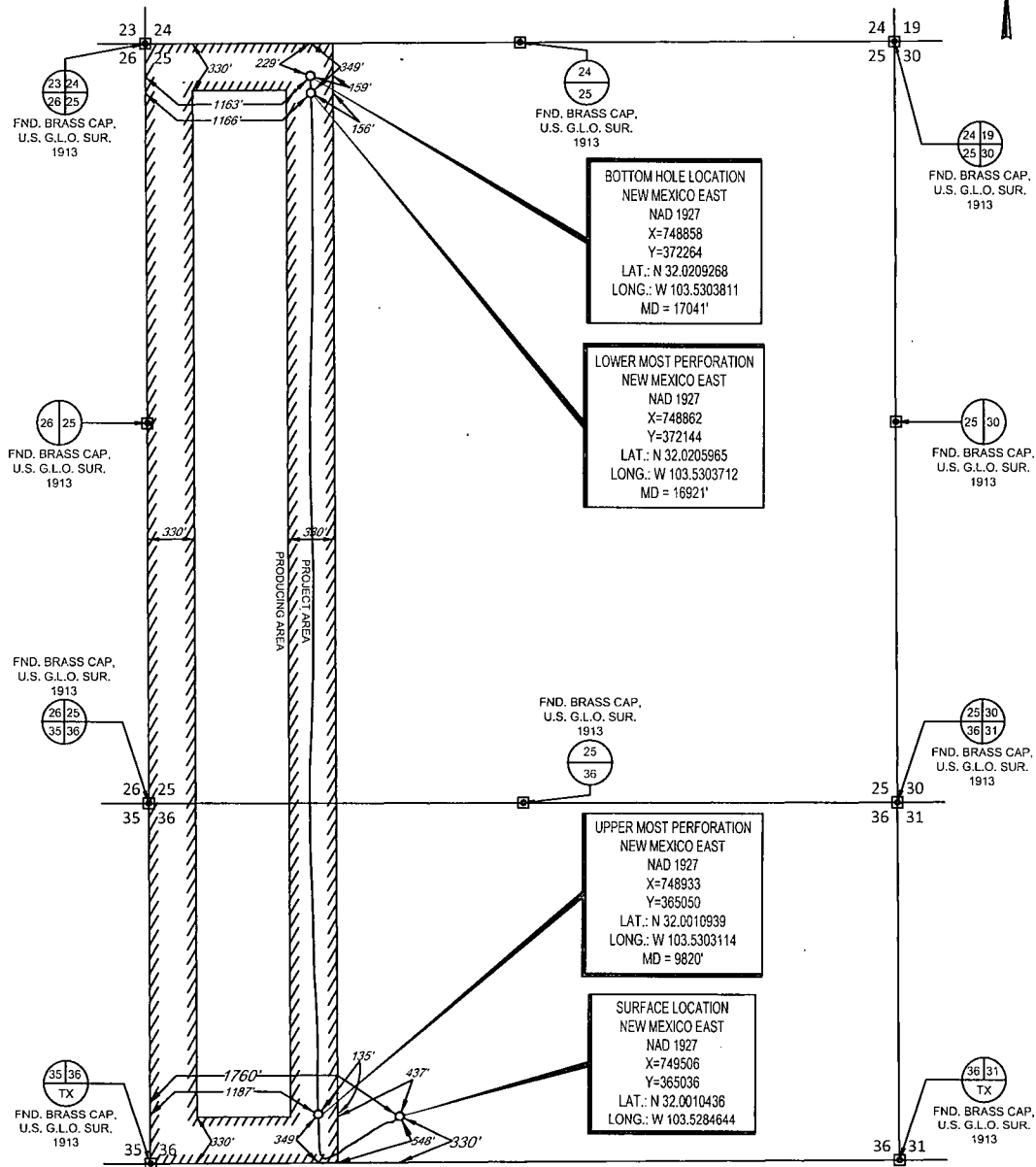
Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well Endurance 36 State Com #2H
Project:	Lea County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Site:	Endurance 36 State Com	MD Reference:	WELL @ 3359.00usft (3334' GL + 25' KB)
Well:	Endurance 36 State Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,802.19	9,643.35	-3.90	-570.37	HL Corssing, MD:9802.19', TVD:9643.35',N/S:-3.90', E/W:-570.37', INC:69.46
16,887.00	9,647.96	7,073.22	-641.01	Last MWD Survey
16,940.93	9,644.85	7,127.03	-642.80	HL Corssing, MD:16940.93', TVD:9644.85',N/S:7127.03', E/W:-642.80', INC:93.
17,042.00	9,639.04	7,227.88	-646.14	Projection To Bit

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

SCALE: 1" = 1000'
0' 500' 1000'

SECTION 36, TOWNSHIP 26 SOUTH, RANGE 33 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO

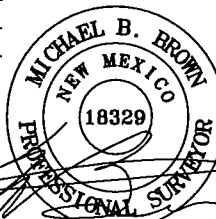


LEASE NAME & WELL NO.: ENDURANCE 36 STATE COM #2H
SECTION 36 TWP 26-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3334'
DESCRIPTION 330' FSL & 1760' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 197 • FT. WORTH, TEXAS 76140
TELEPHONE: (817) 744-7512 • FAX (817) 744-7548
TEXAS FIRM REGISTRATION NO. 10042504
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
TEXAS FIRM REGISTRATION NO. 10042500
WWW.TOPOGRAPHIC.COM



Michael Blake Brown, P.S. No. 18329
JULY 22, 2014



ENDURANCE 36 STATE COM #2H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 07/22/14		
FILE: AD_ENDURANCE36STATECOM_2H		
DRAWN BY: P.Y.		
SHEET: 1 OF 1		

- NOTES:
1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
 2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
 3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY, MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.
 4. B.O.L./P.O.B. = BEGINNING OF LINE/POINT OF BEGINNING
 5. E.O.L./P.O.E. = END OF LINE/POINT OF EXIT

HOBBS OCD

OCT 06 2014

RECEIVED



Lea County, NM (NAD 27 NME)

Endurance 36 State Com #2H

3334' GL + 25' KB

Plan #7

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)

Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: New Mexico East 3001

System Datum: Mean Sea Level



Azimuths to Grid North

True North: -0.43°

Magnetic North: 6.76°

Magnetic Field

Strength: 48193.85nT

Dip Angle: 59.91°

Date: 5/21/2014

Model: IGRF201014

WELL DETAILS: Endurance 36 State Com #2H

Ground Level:	3334.00
Northing	74850.00
Easting	749508.00
Latitude	32° 0' 3.760 N
Longitude	103° 31' 42.470 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Diep	TFace	VSec	Target	Annotation
1	3216.00	0.70	198.400	3214.58	-47.07	-60.70	0.00	0.00	-42.35		
2	3375.70	2.00	244.560	3374.21	-49.19	-63.52	1.00	64.58	-44.21		
3	5205.60	5.00	244.560	5200.00	-76.58	-111.10	0.00	0.00	-66.34		
4	5714.98	7.12	244.560	5710.59	-84.08	-147.89	1.00	0.00	-80.49		
5	9205.01	7.12	244.560	9173.67	-280.00	-638.73	0.00	0.00	-230.78		
6	9980.07	90.00	359.590	9673.00	196.39	-598.69	12.00	114.86	249.15		
7	17010.87	90.00	359.590	9673.00	7227.00	-649.00	0.00	0.00	7256.08	Endurance 36 State Com #2H BHL	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting	Shape
Endurance 36 State Com #2H BHL	9673.00	7227.00	-649.00	74850.00	749508.00	Point
Endurance 36 State Com #2H L Perf	9673.00	7127.00	-649.00	372163.00	748857.00	Point
Endurance 36 State Com #2H U Perf	9673.00	-6.00	-598.00	365030.00	748908.00	Point

