

Results of Directional Survey

API number:	30-025-41459		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	TUMBLING DICE 2 STATE COM # 1H

surface	ULSTR:	M	02	T	25S	R	34E
				220	FSL	760	FWL

BH Loc	ULSTR:	D	02	T	25S	R	34E
14360	MD	9577.2	TVD	244	FNL	347	FWL
				5036	FSL		

Top Perf/OH	ULSTR:	M	02	T	25S	R	34E
9815	MD	9546.5	TVD	509	FSL	499	FWL

Bot Perf/OH	ULSTR:	D	02	T	25S	R	34E
14090	MD	9576.8	TVD	514	FNL	356	FWL
				4766	FSL		

	MD	N/S	E/W	VD
	9808	282.50	-259.01	9546.26
TOP PERFS/OH	9815	289.25	-260.86	9546.49
	9840	313.35	-267.45	9547.32
	14068	4524.44	-404.04	9576.72
BOT PERFS/OH	14090	4546.44	-404.33	9576.81
	14163	4619.43	-405.28	9577.13

NEXT TO LAST	14306	4762.31	-410.77	9577.92
LAST READING	14360	4816.25	-413.32	9577.21
TD	14360	4816.25	-413.32	9577.21

Surface Location	220	FS	760	FW
Projected BHL	5036	FS	347	FW
Location of				
Top Perfs/OH	509	FS	499	FW
Bottom Perfs/OH	4766	FS	356	FW

SUMMARY of Subsurface Locations

Surface Location	M-02-25S-34E	220	FS	760	FW	Vert. Depth
Top Perfs/OH	M-02-25S-34E	509	FS	499	FW	9546.49
Bottom Perfs/OH	D-02-25S-34E	4766	FS	356	FW	9576.81
Projected TD	D-02-25S-34E	5036	FS	347	FW	9577.21

JUL 08 2014



EOG Resources

Lea County, NM (NAD27 NME)

Tumbling Dice 2 State Com

#1H

WB1/Job #1311365

Survey: Phoenix MWD Survey

Survey Report

21 January, 2014

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Phoenix Technology Services
Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB @ 3385.00usft (Patterson 452)
Site:	Tumbling Dice 2 State Com	MD Reference:	KB @ 3385.00usft (Patterson 452)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311365	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Project	Lea County, NM (NAD27 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	Tumbling Dice 2 State Com		
Site Position:		Northing:	420,421.00 usft
From:	Map	Easting:	774,498.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 9' 9.88457 N
		Longitude:	103° 26' 46.97771 W
		Grid Convergence:	0.47 °

Well		#1H				
Well Position	+N-S	0.00 usft	Northing:	420,421.00 usft	Latitude:	32° 9' 9.88457 N
	+E-W	0.00 usft	Easting:	774,498.00 usft	Longitude:	103° 26' 46.97771 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,358.00 usft	

Wellbore	WB1/Job #1311365				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	12/03/13	7.22	60.08	48,340

Design		Surveys (Patterson 452)		
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	355.18



Phoenix Technology Services

Survey Report



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Site:	Tumbling Dice 2 State Com	MD Reference:	KB @ 3385.00usft (Patterson 452)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311365	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

Survey Program		Date	01/21/14		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
230.00	960.00	Tele-Drift Surveys (WB1/Job #1311365)	MWD	MWD - Standard	
1,091.00	14,360.00	Phoenix MWD Survey (WB1/Job #131136)	MWD	MWD - Standard	

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVDS (usft)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)
960.00	0.50	163.00	-2,425.03	959.97	-6.45	2.76	-6.66	0.00	420,414.55	774,500.76
1,091.00	1.20	225.30	-2,294.04	1,090.96	-7.96	1.95	-8.10	0.81	420,413.04	774,499.95
First Phoenix Survey										
1,276.00	1.60	284.70	-2,109.09	1,275.91	-8.67	-1.92	-8.48	0.77	420,412.33	774,496.08
1,460.00	1.50	217.60	-1,925.14	1,459.86	-9.93	-5.88	-9.40	0.93	420,411.07	774,492.12
1,651.00	1.50	265.90	-1,734.20	1,650.80	-12.09	-9.90	-11.21	0.64	420,408.91	774,488.10
1,842.00	1.30	247.30	-1,543.26	1,841.74	-13.10	-14.39	-11.85	0.26	420,407.90	774,483.61
2,033.00	1.10	241.30	-1,352.30	2,032.70	-14.82	-18.00	-13.25	0.12	420,406.18	774,480.00
2,224.00	1.50	220.70	-1,161.35	2,223.65	-17.59	-21.24	-15.75	0.32	420,403.41	774,476.76
2,415.00	1.20	208.80	-970.40	2,414.60	-21.24	-23.83	-19.17	0.21	420,399.76	774,474.17
2,606.00	0.80	186.80	-779.43	2,605.57	-24.32	-24.95	-22.14	0.29	420,396.68	774,473.05
2,797.00	1.70	201.60	-588.48	2,796.52	-28.28	-26.15	-25.98	0.50	420,392.72	774,471.85
2,988.00	1.00	198.50	-397.53	2,987.47	-32.49	-27.72	-30.05	0.37	420,388.51	774,470.28
3,178.00	1.40	238.90	-207.57	3,177.43	-35.26	-30.24	-32.60	0.48	420,385.74	774,467.76
3,369.00	1.00	216.70	-16.61	3,368.39	-37.81	-33.23	-34.88	0.32	420,383.19	774,464.77
3,560.00	1.00	200.30	174.36	3,559.36	-40.70	-34.80	-37.64	0.15	420,380.30	774,463.20
3,751.00	0.90	176.50	365.34	3,750.34	-43.77	-35.29	-40.65	0.21	420,377.23	774,462.71
3,942.00	1.20	171.60	556.30	3,941.30	-47.24	-34.91	-44.14	0.16	420,373.76	774,463.09
4,133.00	1.70	201.90	747.25	4,132.25	-51.85	-35.67	-48.67	0.47	420,369.15	774,462.33
4,324.00	1.60	199.80	938.17	4,323.17	-56.99	-37.63	-53.62	0.06	420,364.01	774,460.37
4,515.00	1.50	214.50	1,129.10	4,514.10	-61.56	-39.95	-57.98	0.21	420,359.44	774,458.05



Phoenix Technology Services

Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB @ 3385.00usft (Patterson 452)
Site:	Tumbling Dice 2 State Com	MD Reference:	KB @ 3385.00usft (Patterson 452)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311365	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

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)	
4,706.00	2.10	179.80	1,320.01	4,705.01	-67.11	-41.36	-63.40	0.64	420,353.89	774,456.64	
4,897.00	2.40	216.20	1,510.87	4,895.87	-73.84	-43.71	-69.91	0.75	420,347.16	774,454.29	
5,088.00	2.00	207.30	1,701.73	5,086.73	-80.03	-47.60	-75.75	0.27	420,340.97	774,450.40	
5,243.00	1.80	213.70	1,856.64	5,241.64	-84.46	-50.19	-79.94	0.19	420,336.54	774,447.81	
5,364.00	1.70	218.00	1,977.59	5,362.59	-87.45	-52.35	-82.75	0.14	420,333.55	774,445.65	
5,555.00	1.80	216.50	2,168.50	5,553.50	-92.10	-55.87	-87.08	0.06	420,328.90	774,442.13	
5,746.00	1.80	221.40	2,359.40	5,744.40	-96.76	-59.64	-91.41	0.08	420,324.24	774,438.36	
5,937.00	1.70	222.30	2,550.31	5,935.31	-101.11	-63.53	-95.41	0.05	420,319.89	774,434.47	
6,128.00	1.60	223.00	2,741.24	6,126.24	-105.15	-67.26	-99.13	0.05	420,315.85	774,430.74	
6,318.00	1.60	224.50	2,931.16	6,316.16	-108.98	-70.93	-102.64	0.02	420,312.02	774,427.07	
6,509.00	1.50	228.80	3,122.09	6,507.09	-112.53	-74.68	-105.86	0.08	420,308.47	774,423.32	
6,700.00	1.40	240.40	3,313.03	6,698.03	-115.33	-78.59	-108.32	0.16	420,305.67	774,419.41	
6,890.00	1.90	217.00	3,502.95	6,887.95	-118.99	-82.50	-111.64	0.44	420,302.01	774,415.50	
7,081.00	1.90	214.30	3,693.85	7,078.85	-124.14	-86.19	-116.46	0.05	420,298.86	774,411.81	
7,272.00	1.80	218.50	3,884.75	7,269.75	-129.10	-89.84	-121.10	0.09	420,291.90	774,408.16	
7,463.00	1.90	221.20	4,075.65	7,460.65	-133.83	-93.79	-125.48	0.07	420,287.17	774,404.21	
7,653.00	1.90	217.80	4,265.55	7,650.55	-138.69	-97.80	-129.98	0.06	420,282.31	774,400.20	
7,844.00	2.00	217.30	4,456.43	7,841.43	-143.84	-101.76	-134.78	0.05	420,277.16	774,396.24	
8,035.00	2.20	205.80	4,647.31	8,032.31	-149.79	-105.38	-140.41	0.24	420,271.21	774,392.62	
8,226.00	1.40	197.40	4,838.21	8,223.21	-155.32	-107.67	-145.73	0.44	420,265.68	774,390.33	
8,417.00	1.40	184.10	5,029.15	8,414.15	-159.88	-108.53	-150.19	0.17	420,261.12	774,389.47	
8,607.00	1.30	191.80	5,219.10	8,604.10	-164.30	-109.14	-154.55	0.11	420,256.70	774,388.86	
8,798.00	1.40	203.40	5,410.05	8,795.05	-168.56	-110.51	-158.68	0.15	420,252.44	774,387.49	
8,980.00	1.50	209.60	5,591.99	8,976.99	-172.67	-112.57	-162.60	0.10	420,248.33	774,385.43	
9,042.00	1.20	294.50	5,653.98	9,038.98	-173.11	-113.56	-162.96	2.96	420,247.89	774,384.44	
9,074.00	4.00	335.30	5,685.95	9,070.95	-171.96	-114.33	-161.74	9.97	420,249.04	774,383.67	
9,106.00	8.00	339.70	5,717.76	9,102.76	-168.85	-115.57	-158.55	12.57	420,252.15	774,382.43	



Phoenix Technology Services
Survey Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Tumbling Dice 2 State Com
Well: #1H
Wellbore: WB1/Job #1311365
Design: Surveys (Patterson 452)

Local Co-ordinate Reference: Well #1H
TVD Reference: KB @ 3385.00usft (Patterson 452)
MD Reference: KB @ 3385.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

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)
9,138.00	11.40	340.40	5,749.30	9,134.30	-163.78	-117.41	-153.34	10.63	420,257.22	774,380.59
9,170.00	14.90	341.40	5,780.46	9,165.46	-156.90	-119.78	-146.28	10.96	420,264.10	774,378.22
9,202.00	19.00	340.40	5,811.06	9,196.06	-148.09	-122.84	-137.25	12.84	420,272.91	774,375.16
9,233.00	22.90	338.00	5,840.01	9,225.01	-137.74	-126.79	-126.60	12.88	420,283.26	774,371.21
9,265.00	26.90	337.00	5,869.03	9,254.03	-125.30	-131.96	-113.77	12.57	420,295.70	774,366.04
9,297.00	30.10	337.70	5,897.14	9,282.14	-111.21	-137.83	-99.24	10.05	420,309.79	774,360.17
9,329.00	33.50	338.30	5,924.34	9,309.34	-95.58	-144.14	-83.13	10.67	420,325.42	774,353.86
9,361.00	36.50	338.90	5,950.55	9,335.55	-78.49	-150.84	-65.54	9.44	420,342.51	774,347.16
9,393.00	39.60	340.80	5,975.74	9,360.74	-59.97	-157.62	-46.52	10.35	420,361.03	774,340.38
9,425.00	43.20	342.00	5,999.74	9,384.74	-39.92	-164.36	-25.97	11.52	420,381.08	774,333.64
9,456.00	46.40	341.30	6,021.74	9,406.74	-19.19	-171.24	-4.73	10.44	420,401.81	774,326.76
9,488.00	49.60	340.80	6,043.15	9,428.15	3.30	-178.96	18.32	10.07	420,424.30	774,319.04
9,520.00	52.80	341.30	6,063.20	9,448.20	26.88	-187.06	42.51	10.07	420,447.88	774,310.94
9,552.00	55.80	343.50	6,081.87	9,466.87	51.65	-194.91	67.85	10.91	420,472.65	774,303.09
9,584.00	59.60	345.60	6,098.97	9,483.97	77.72	-202.10	94.42	13.11	420,498.72	774,295.90
9,616.00	63.50	346.70	6,114.21	9,499.21	105.03	-208.83	122.21	12.56	420,526.03	774,289.17
9,648.00	67.00	346.20	6,127.60	9,512.60	133.28	-215.64	150.93	11.03	420,554.28	774,282.36
9,679.00	71.00	344.30	6,138.71	9,523.71	161.26	-223.01	179.42	14.11	420,582.26	774,274.99
9,711.00	75.10	343.10	6,148.04	9,533.04	190.63	-231.60	209.41	13.30	420,611.63	774,266.40
9,743.00	80.00	342.60	6,154.94	9,539.94	220.48	-240.82	239.93	15.39	420,641.48	774,257.18
9,777.00	85.10	343.70	6,159.34	9,544.34	252.73	-250.58	272.89	15.34	420,673.73	774,247.42
9,808.00	87.80	344.70	6,161.26	9,546.26	282.50	-259.01	303.26	9.29	420,703.50	774,238.99
9,840.00	88.40	344.70	6,162.32	9,547.32	313.35	-267.45	334.71	1.87	420,734.35	774,230.55
9,872.00	89.00	345.00	6,163.05	9,548.05	344.23	-275.81	366.19	2.10	420,765.23	774,222.19
9,968.00	92.00	345.40	6,162.21	9,547.21	437.03	-300.33	460.72	3.15	420,858.03	774,197.67
10,063.00	92.30	345.80	6,158.65	9,543.65	528.98	-323.93	554.33	0.53	420,949.98	774,174.07
10,159.00	91.80	347.30	6,155.21	9,540.21	622.28	-346.25	649.18	1.65	421,043.28	774,151.75



Phoenix Technology Services

Survey Report



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Site: Tumbling Dice 2 State Com
Well: #1H
Wellbore: WB1/Job #1311365
Design: Surveys (Patterson 452)

Local Co-ordinate Reference: Well #1H
TVD Reference: KB @ 3385.00usft (Patterson 452)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

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)
10,254.00	92.30	350.10	6,151.81	9,536.81	715.37	-364.85	743.50	2.99	421,136.37	774,133.15
10,350.00	90.20	351.80	6,149.72	9,534.72	810.15	-379.94	839.21	2.81	421,231.15	774,118.06
10,445.00	89.10	355.10	6,150.30	9,535.30	904.51	-390.78	934.15	3.66	421,325.51	774,107.22
10,540.00	89.80	359.10	6,151.21	9,536.21	999.36	-395.58	1,029.07	4.27	421,420.36	774,102.42
10,635.00	92.00	0.80	6,149.72	9,534.72	1,094.34	-395.67	1,123.72	2.93	421,515.34	774,102.33
10,730.00	93.40	1.40	6,145.25	9,530.25	1,189.22	-393.85	1,218.10	1.60	421,610.22	774,104.15
10,826.00	93.50	1.80	6,139.47	9,524.47	1,285.01	-391.17	1,313.33	0.43	421,706.01	774,106.83
10,921.00	93.50	2.00	6,133.67	9,518.67	1,379.78	-388.03	1,407.50	0.21	421,800.78	774,109.97
11,017.00	93.40	2.30	6,127.89	9,512.89	1,475.53	-384.43	1,502.62	0.33	421,896.53	774,113.57
11,112.00	90.70	2.40	6,124.49	9,509.49	1,570.39	-380.54	1,596.81	2.84	421,991.39	774,117.46
11,144.00	89.50	2.30	6,124.44	9,509.44	1,602.36	-379.23	1,628.56	3.76	422,023.36	774,118.77
11,176.00	88.90	2.10	6,124.89	9,509.89	1,634.33	-378.00	1,660.31	1.98	422,055.33	774,120.00
11,208.00	88.30	2.30	6,125.67	9,510.67	1,666.30	-376.77	1,692.06	1.98	422,087.30	774,121.23
11,303.00	87.50	2.20	6,129.15	9,514.15	1,761.16	-373.04	1,786.28	0.85	422,182.16	774,124.96
11,398.00	88.40	1.30	6,132.55	9,517.55	1,856.05	-370.14	1,880.59	1.34	422,277.05	774,127.86
11,494.00	87.30	0.40	6,136.15	9,521.15	1,951.97	-368.72	1,976.05	1.48	422,372.97	774,129.28
11,589.00	88.80	1.10	6,139.38	9,524.38	2,046.91	-367.48	2,070.54	1.74	422,467.91	774,130.52
11,684.00	88.60	0.30	6,141.54	9,526.54	2,141.87	-366.32	2,165.08	0.87	422,562.87	774,131.68
11,780.00	88.80	359.20	6,143.71	9,528.71	2,237.85	-366.74	2,260.75	1.16	422,658.85	774,131.26
11,875.00	89.10	358.80	6,145.45	9,530.45	2,332.82	-368.39	2,355.52	0.53	422,753.82	774,129.61
11,970.00	90.30	359.40	6,145.95	9,530.95	2,427.80	-369.89	2,450.29	1.41	422,848.80	774,128.11
12,066.00	89.20	359.00	6,146.37	9,531.37	2,523.79	-371.23	2,546.06	1.22	422,944.79	774,126.77
12,161.00	89.00	359.30	6,147.86	9,532.86	2,618.77	-372.64	2,640.82	0.38	423,039.77	774,125.36
12,257.00	89.60	358.10	6,149.04	9,534.04	2,714.73	-374.81	2,736.63	1.40	423,135.73	774,123.19
12,352.00	86.10	358.60	6,152.60	9,537.60	2,809.61	-377.55	2,831.40	3.72	423,230.61	774,120.45
12,447.00	86.20	358.70	6,158.98	9,543.98	2,904.37	-379.78	2,926.01	0.15	423,325.37	774,118.22
12,543.00	87.60	359.00	6,164.17	9,549.17	3,000.21	-381.70	3,021.67	1.49	423,421.21	774,116.30



Phoenix Technology Services
Survey Report



Company:	EOG Resources	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM (NAD27 NME)	TVD Reference:	KB @ 3385.00usft (Patterson 452)
Site:	Tumbling Dice 2 State Com	MD Reference:	KB @ 3385.00usft (Patterson 452)
Well:	#1H	North Reference:	Grid
Wellbore:	WB1/Job #1311365	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patterson 452)	Database:	Compass 5000 GCR DB

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)
12,638.00	88.40	359.00	6,167.49	9,552.49	3,095.13	-383.36	3,116.40	0.84	423,516.13	774,114.64
12,734.00	89.60	359.00	6,169.16	9,554.16	3,191.10	-385.04	3,212.17	1.25	423,612.10	774,112.96
12,829.00	90.60	359.10	6,168.99	9,553.99	3,286.09	-386.61	3,306.95	1.06	423,707.09	774,111.39
12,924.00	90.10	358.60	6,168.41	9,553.41	3,381.07	-388.52	3,401.76	0.74	423,802.07	774,109.48
13,020.00	87.60	358.80	6,170.34	9,555.34	3,477.02	-390.70	3,497.55	2.61	423,898.02	774,107.30
13,115.00	87.30	358.30	6,174.57	9,559.57	3,571.89	-393.10	3,592.29	0.61	423,992.89	774,104.90
13,209.00	88.00	357.80	6,178.42	9,563.42	3,665.76	-396.29	3,686.09	0.91	424,086.76	774,101.71
13,304.00	86.90	0.40	6,182.65	9,567.65	3,760.64	-397.78	3,780.77	2.97	424,181.64	774,100.22
13,399.00	88.00	359.90	6,186.88	9,571.88	3,855.54	-397.54	3,875.31	1.27	424,276.54	774,100.46
13,495.00	88.90	359.70	6,189.47	9,574.47	3,951.51	-397.87	3,970.97	0.96	424,372.51	774,100.13
13,590.00	89.80	358.80	6,190.55	9,575.55	4,046.49	-399.11	4,065.72	1.34	424,467.49	774,098.89
13,686.00	89.10	359.70	6,191.47	9,576.47	4,142.48	-400.37	4,161.47	1.19	424,563.48	774,097.63
13,781.00	89.60	359.00	6,192.55	9,577.55	4,237.46	-401.45	4,256.21	0.91	424,658.46	774,096.55
13,877.00	91.00	359.70	6,192.05	9,577.05	4,333.45	-402.54	4,351.95	1.63	424,754.45	774,095.46
13,972.00	89.50	359.40	6,191.63	9,576.63	4,428.45	-403.28	4,446.67	1.61	424,849.45	774,094.72
14,068.00	90.40	359.70	6,191.72	9,576.72	4,524.44	-404.04	4,542.39	0.99	424,945.44	774,093.96
14,163.00	89.10	358.80	6,192.13	9,577.13	4,619.43	-405.28	4,637.15	1.66	425,040.43	774,092.72
14,258.00	89.80	357.30	6,193.04	9,578.04	4,714.37	-408.51	4,732.02	1.74	425,135.37	774,089.49
14,306.00	90.50	357.30	6,192.92	9,577.92	4,762.31	-410.77	4,779.99	1.46	425,183.31	774,087.23
Final Phoenix Survey										
14,360.00	91.00	357.30	6,192.21	9,577.21	4,816.25	-413.32	4,833.95	0.93	425,237.25	774,084.68
Projection to TD										



Phoenix Technology Services

Survey Report



Company: EOG Resources
Project: Lea County, NM (NAD27 NME)
Site: Tumbling Dice 2 State Com
Well: #1H
Wellbore: WB1/Job #1311365
Design: Surveys (Patterson 452)

Local Co-ordinate Reference: Well #1H
TVD Reference: KB @ 3385.00usft (Patterson 452)
MD Reference: KB @ 3385.00usft (Patterson 452)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR DB

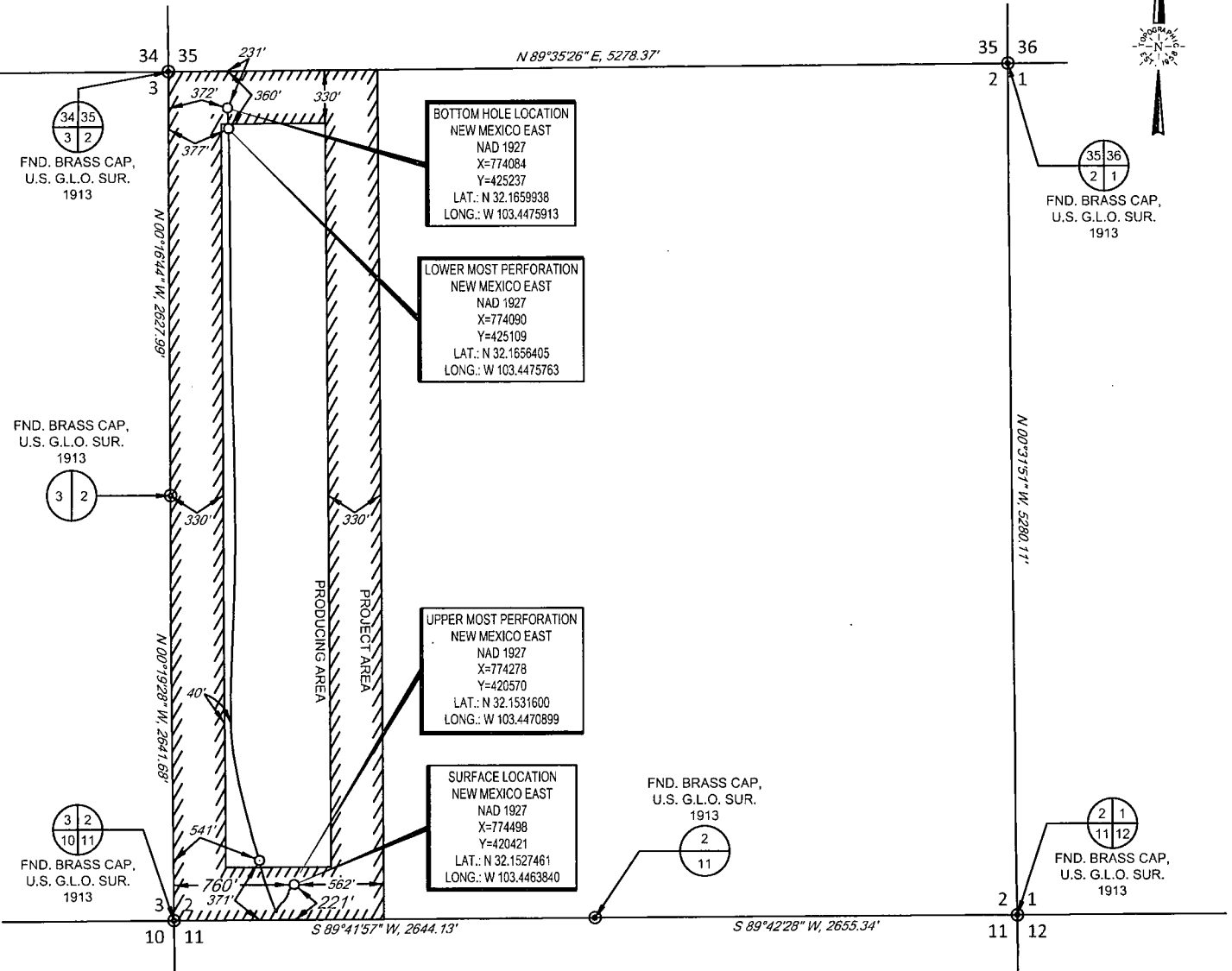
Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,091.00	1,090.96	-7.96	1.95	First Phoenix Survey
14,306.00	9,577.92	4,762.31	-410.77	Final Phoenix Survey
14,360.00	9,577.45	4,816.25	-413.32	Projection to TD

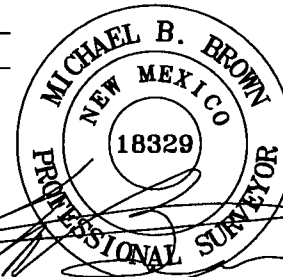
SCALE: 1" = 1000'

0' 500' 1000'

SECTION 2, TOWNSHIP 25 SOUTH, RANGE 34 EAST, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: TUMBLING DICE 2 STATE #1H
 SECTION 2 TWP 25-S RGE 34-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3360'
 DESCRIPTION 221' FNL & 760' FWL



Michael Blake Brown, P.S. No. 18329
APRIL 24, 2014



TOPOGRAPHIC
LOYALTY. INNOVATION. LEGACY

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TUMBLING DICE 2 STATE #1H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 04/24/14		
FILE: AD_TUMBLINGDICE2STATE_1H		
DRAWN BY: A.C.C.		
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 19 27.
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